

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

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Application of Pacific Gas and Electric Company (U 39 M) to Submit Its 2020 Risk Assessment and Mitigation Phase Report.

Application No. A.20-06-012 (Filed: June 30, 2020)

(NOT CONSOLIDATED)

Application of Pacific Gas and Electric Company (U 39 M) for Authority, Among Other Things, to Increase Rates and Charges for Electric and Gas Service Effective on January 1, 2023.

Application No. 21-06-021 (Filed June 30, 2021)

(NOT CONSOLIDATED)

Application of Pacific Gas and Electric Company (U 39 M) to Submit Its 2024 Risk Assessment and Mitigation Phase Report

Dated: June 17, 2024

Application No. 24-05-008 (Filed May 15, 2024)

PACIFIC GAS AND ELECTRIC COMPANY'S (U39M) AMENDMENT TO THE 2023 RISK SPENDING ACCOUNTABILITY REPORT

WALKER MATTHEWS PETER OUBORG

Pacific Gas and Electric Company Law Department, 19th Floor 300 Lakeside Drive, Suite 210 Telephone: (925) 750-0041 Facsimile: (415) 973-5520

E-Mail: walker.matthews@pge.com

Attorneys for

PACIFÍC GAS AND ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

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Application of Pacific Gas and Electric Company (U 39 M) to Submit Its 2024 Risk Assessment and Mitigation Phase Report

Application No. 24-05-008 (Filed May 15, 2024)

PACIFIC GAS AND ELECTRIC COMPANY'S (U39M) AMENDMENT TO THE 2023 RISK SPENDING ACCOUNTABILITY REPORT

Pacific Gas and Electric Company (PG&E) submits this amendment to its 2023 Risk Spending Accountability Report (2023 RSAR) in compliance with Decision (D.) 19-04-020, the *Phase Two Decision Adopting Risk Spending Accountability Report Requirements And Safety Performance Metrics For Investor-Owned Utilities And Adopting A Safety Model Approach For Small And Multi-Jurisdictional Utilities*, and D.22-10-002, the *Decision Addressing Phase I Track 3 and 4 Issues*. The Report was timely filed on May 31, 2024 in accordance with D.19-04-020 and D.22-10-002. However, two minor errors were subsequently identified and this submission corrects those errors. The error is limited to one table, Table 3-4, 2023 GRC Cycle Electric Distribution Capital Comparison By Mat For Safety, Reliability And Maintenance Work. First, Table 3-4 in the PDF version of PG&E's 2023 RSAR was incorrect and is replaced in full. In addition, two data points for MAT Code 49R in Table 3-4 are being corrected (see table below for details). The Excel attachment including Table 3-4 (both the redline and clean version) is being corrected with this submission.

Report	MWC/MAT Code	Original	Corrected	Explanation for				
Reference		Value	Value	Correction				
Table 3-4	Entire Tabl	Table 3-3 was						
		inadvertently						
				included as Table				
		3-4 in original						
				submission				
Table 3-4, 2023	49R – Electric	17,901.1	18,304.1	Imputed Adopted				
Imputed	Distribution Reliability			Costs had a				
Adopted Costs,	Ckt/Zone: Grid Mod Tech			typographical				
Cell 182G				error				
Table 3-4,	49R – Electric	(17,829.5)	(18,232.5)	Imputed Adopted				
Difference for	Distribution Reliability			Costs had a				
2023 (\$), Cell	Ckt/Zone: Grid Mod Tech			typographical				
182I				error				
Table 3-4, Entire	49R – Electric	Delete r	ow in full	Inadvertently				
Row 183	Distribution Reliability			included as SRM				
	Ckt/Zone: Grid Mod Tech			non-RAMP costs				

Respectfully Submitted,

/s/ Walker Matthews
WALKER MATTHEWS By:

Pacific Gas and Electric Company Law Department, 19th Floor 300 Lakeside Drive, Suite 210 Oakland, CA 94612

Telephone: (925) 750-0041 Facsimile: (415) 973-5520 E-Mail: walker.matthews@pge.com

Attorney for

Dated: June 17, 2024 PACIFÍC GAS AND ELECTRIC COMPANY

PACIFIC GAS AND ELECTRIC COMPANY

AMENDMENT TO THE 2023 RISK SPENDING ACCOUNTABILITY REPORT IN COMPLIANCE WITH CALIFORNIA PUBLIC UTILITIES COMMISSION DECISION 19-04-020 AND DECISION 22-10-002

JUNE 17, 2024



PACIFIC GAS AND ELECTRIC COMPANY AMENDMENT TO THE 2023 RISK SPENDING ACCOUNTABILITY REPORT IN COMPLIANCE WITH CALIFORNIA PUBLIC UTILITIES COMMISSION DECISION 19-04-020 AND DECISION 22-10-002 JUNE 17, 2024

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PACIFIC GAS AND ELECTRIC COMPANY SECTION 1 INTRODUCTION AND OVERVIEW

PACIFIC GAS AND ELECTRIC COMPANY SECTION 1 INTRODUCTION AND OVERVIEW

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PACIFIC GAS AND ELECTRIC COMPANY SECTION 1 INTRODUCTION AND OVERVIEW

A. Introduction

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Pacific Gas and Electric Company (PG&E or the Company) submits its 2023 Risk Spending Accountability Report (RSAR). The 2023 RSAR complies with Decision (D.) 19-04-020¹ and D.22-10-002.² This report is organized as follows:

Section 1 provides an overview of PG&E's 2023 General Rate Case (GRC) 2023 imputed adopted costs and recorded costs (also referred to as actual costs) for Gas Distribution, Gas Transmission and Storage (GT&S), Electric Distribution, Energy Supply, Customer and Communications, Shared Services/Information Technology (IT), Human Resources (HR), Corporate Services (Administrative and General or A&G), and Companywide Items.

Sections 2 through 9 compare PG&E's 2023 GRC imputed adopted and recorded costs by Functional Area.³,⁴ Specifically, Sections 2 through 9 contain:

- 1) PG&E's imputed adopted and actual costs/units for PG&E's 2023 GRC, by Major Work Category (MWC) and/or Maintenance Activity Type (MAT) Code (where applicable) for Gas Distribution, GT&S, Electric Distribution, Energy Supply, Customer and Communications, Shared Services/IT; PG&E's imputed adopted and actual costs by functional area for HR, Corporate Services (A&G), and Companywide Items.
- 2) Variance explanations for:

D.19-04-020 (Phase Two Decision Adopting Risk Spending Accountability Report Requirements and Safety Performance Metrics for Investor-Owned Utilities and Adopting a Safety Model Approach for Small and Multi-Jurisdictional Utilities).

² D.22-10-022 (Decision Addressing Phase I Tracks 3 and 4 Issues).

³ Previous terminology was "Line of Business;" Corporate Services do not have costs that meet the variance explanation requirements.

In addition to costs, several data points per program are provided. See D.22-10-002, Appendix A and Appendix B for specific requirements and term definitions.

- a) Imputed adopted versus actual costs/units for 2023 by MWC and/or MAT for safety, reliability, and maintenance work subject to the following thresholds.⁵
 - <u>Expense</u>: A variance of at least \$10 million, or a percentage variance of at least 20 percent subject to a minimum variance of \$5 million;
 - <u>Capital</u>: A variance of at least \$20 million, or a percentage variance of at least 20 percent subject to a minimum variance of \$10 million;
 and
- <u>Units</u>: A variance of at least 20 percent of work units performed.⁶
 Section 10 discusses the cost recovery of expenditures that flow through balancing or memorandum accounts in 2023.

D.19-04-020, as updated in D.21-11-009, requires programs that are related to safety, reliability, or maintenance to "be separated into risk mitigation programs identified in the Risk Assessment and Mitigation Phase (RAMP)."

PG&E's 2020 RAMP (as updated in the 2023 GRC) supported PG&E's 2023 GRC. Accordingly, the RAMP risks, mitigations, and controls included in this report are those presented in PG&E's 2023 GRC, which updated the 2020 RAMP analysis. The data provided in the 2023 RSAR also includes non-RAMP spending on safety, reliability, and maintenance programs.

B. Presentation Guidance

PG&E used Appendix A and Appendix B of D.22-10-002 to format and populate its 2023 RSAR. Below PG&E explains the presentation of information and general guidance used in its 2023 RSAR.

Throughout the RSAR tables, PG&E uses "N/A" for data points that are either not available or not applicable.

For the "Project Life" and "Project Year," if known, PG&E provided specific values. For continuing programs that have no defined or published life, PG&E noted that the programs are "On-going" or "Annual" respectively.

D.19-04-020, Table 4, p. 43.

D.19-04-020, p. 54, Ordering Paragraph (OP) 11.

⁷ D.19-04-020, Attachment 2, p. 1, p. 36. D.21-11-009 expanded this requirement to include both RAMP mitigations and controls, p. 15.

For the "Forecast Scope" column, PG&E used the imputed versus actual units to determine the "Scope" status. If the program is not unitized, PG&E used the "Status" column to populate the "Scope" status.

For the "Forecast Schedule" column, PG&E used the "Status" column to populate.

For the "Forecast Budget" column, PG&E used the imputed versus actual costs to determine the "Budget" status. For programs with \$0 imputed costs the status of "Over" was used.

For the "Status" column, D.22-10-002, Appendix A defines the options as "Proceeding as Planned", "Deferred", "Canceled", "Expanded", and "Emergent". PG&E did not use the drop-down option of "Deferred." Per D.22-10-002, an investor-owned utility (IOU) may use other terms as long as they define additional terms. PG&E is using the term "Rescheduled" as the status for program activities that have been delayed to a later date. On numerous occasions, multiple of the "Status" descriptions could have reasonably been selected for a particular activity; therefore, in these instances, PG&E exercised its best professional judgment in populating all Status columns ("Forecast Scope," "Forecast Schedule," "Forecast Budget," and "Status").

Regarding PG&E's RAMP presentation, programs that are labeled as "SRM Total (Non-RAMP)" represent programs that are safety, reliability, and/or maintenance programs that have no RAMP risk mitigations. Spending for new RAMP risk mitigation activities identified after PG&E's 2023 GRC submission that are safety, reliability, and maintenance activities are included in the "Post 2023 GRC Mitigation" category.

In 2023, PG&E continued its wildfire risk and electric risk reduction activities and programs to continue delivering on the company's wildfire mitigation plans. For the majority of the year, there also was uncertainty associated with the pending 2023 GRC Decision, which was not issued until November 2023. Given so, variances resulted as PG&E executed all planning work and much of the physical work before the decision. PG&E's 2023 portfolio focused on wildfire and electric risk reduction and support, and increased volume of customer connection and emergency response demand. In addition, across the

⁸ D.22-10-002, p.18.

company's functional areas prioritization focused on implementing efficiency opportunities, identifying lower-priority work to be rescheduled, and making forecast refinements. When applicable, PG&E's variance explanations include further details regarding changes in priority that led to a shifting of funds between programs.

C. Compliance With D.22-10-002

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This section addresses how and/or where PG&E has complied with the new RSAR requirements in D.22-10-002, as defined in Appendix A and B.9

- Requirement 7: This requirement directs the IOUs to use a single standardized table structure for programs, including canceled, deferred, or expanded programs. PG&E used the table template provided in Appendix B, including a column for overall status.
- Requirement 8: This requirement directs the IOUs to provide cites to relevant GRC testimony and workpapers. The tables provided in this report contain a column labeled "2023 GRC Testimony Reference." PG&E's reference 2023 GRC testimony and associated workpapers are available at the following link: https://pgera.azurewebsites.net/Regulation/search (or available upon request).
- Requirement 9: This requirement directs the IOUs to provide the Excel spreadsheets that support the RSAR tables. PG&E has attached all Excel spreadsheets to this report and made them publicly available on its website.
- Requirement 10: This requirement directs the IOUs to provide an overview of how they defined program completion status. PG&E defined program completion status using the guidance provided in Appendix B for the "Status" column. As permitted by D.22-10-002 and described above, PG&E uses the word "Rescheduled" in place of "Deferred."
- <u>Requirement 11</u>: This requirement directs the IOUs to explain, when applicable, why a program lacks units and cite the applicable workpapers.

The following requirements from Appendix A are not addressed: Requirements 1 and 2 change the RSAR schedule requirements; Requirements 3-6 address GRC to RAMP mapping; Requirements 19-22 apply to RAMP.

¹⁰ https://pgera.azurewebsites.net/Regulation/search.

Such instances are addressed in the "Unit Type" column and the "2023 GRC Testimony Reference" column.

- Requirement 12: This requirement directs the IOUs to provide its applicable imputation methodology. This information is provided in Appendix A and B.
- Requirement 13: This requirement directs the IOUs to explain when a
 variance is the result of a forecast error, including identifying any
 assumptions that resulted in the error. For any applicable variances, PG&E
 addressed this requirement in one or more of the following columns: 2023
 Cost Variance Explanation, 2023 Unit Variance Explanation, and/or
 Completion Status Statement.
 - Requirement 14: This requirement directs the IOUs to explain the actual
 cost shifted or why the actual costs cannot be provided and imputed and
 actual costs. For any applicable variances, PG&E addressed this in one or
 more of the following columns: 2023 Cost Variance Explanation, 2023 Unit
 Variance Explanation, and/or Completion Status Statement.
- Requirement 15: This requirement directs the IOUs to "mark programs with less than 5 percent of authorized expenditures as either canceled or deferred." Alternatively, if canceled or deferred is not the program status, an explanation is required. For any applicable variances, PG&E addressed this requirement in one or more of the following columns: 2023 Cost Variance Explanation, 2023 Unit Variance Explanation, Status, and/or Completion Status Statement.
- Requirement 16: When a variance is the result of new in-scope activities, this requirement directs the IOUs to explain what caused the new activities. For any applicable variances, PG&E addressed this requirement in one or more of the following columns: 2023 Cost Variance Explanation, 2023 Unit Variance Explanation, Status, and/or Completion Status Statement.
- Requirement 17: When a variance is the result of expanded scope
 activities, this requirement directs the IOUs to explain the reasons for the
 scope changes. For any applicable variances, PG&E addressed this
 requirement in one or more of the following columns: 2023 Cost Variance
 Explanation, 2023 Unit Variance Explanation, Status, and/or Completion
 Status Statement.

- Requirement 18: When a variance is the result of inaccurate forecasts or recorded elsewhere, this requirement directs the IOUs to explain and to provide enough information to explain the cause of the variance. For any applicable variances, PG&E addressed this requirement in one or more of the following columns: 2023 Cost Variance Explanation, 2023 Unit Variance Explanation, and/or Completion Status Statement.
- Requirement 23: This requirement directs the IOUs to track programs over a full GRC cycle in the RSAR, including the cumulative GRC imputed costs, imputed costs to date, actual costs by year, cost to date, and variance to date. Specifically, IOUs shall provide a statement regarding the anticipated completion status for each line item as to whether the program is anticipated to be completed during the GRC cycle. For the last year of the GRC cycle, the completion status will summarize the entire GRC cycle and discuss any deferred or cancelled scope. In this report, PG&E has included the imputed and actual costs and units for year 2023. Generally, PG&E provided a completion status statement for SRM programs where imputed adopted exceeded actuals and triggered the variance threshold.
- Requirement 24: This requirement directs the IOUs in interim GRC cycle
 years to provide a statement regarding the anticipated completion status for
 programs that exceed the variance threshold. Since 2023 is the first year of
 PG&E's 2023 GRC cycle, PG&E complied with this requirement by
 completing Requirement 23 above.
- Requirement 25: This requirement directs the IOUs to include all GRC expenditures, including non-SRM GRC programs (company-wide items) and discuss how it has treated interest, overhead, and taxes in its submission. This requirement went into effect starting with the IOUs' 2023 RSARs and is now included in PG&E's 2023 RSAR. 11 PG&E included non-SRM expense and capital tables in each functional area as applicable and includes non-SRM costs tracked in a balancing or memorandum account in Section 10. PG&E is not required to provide a variance explanation for non-SRM GRC programs. PG&E's discussion of how interest, overhead, and taxes were treated is explained below.

D.22-10-002, OP 1, p. 55.

• Imputed adopted: The expense and capital overheads are included in the adopted costs at the MWCs, MATs or support organizations level, consistent with the recorded methodology. Two exceptions for expense are: (1) employee benefits and Post Retirement Benefits Other than Pension (PBOP), which are treated as Companywide expenses included in Section 9 of this report, and (2) payroll taxes, which are included along with various (property, business, other, state corporation franchise, and federal income) adopted taxes in the Decision 23-11-069, Appendix A, Table 3. Adopted interest expense on PG&E debt is also included in Appendix A, Table 3, Line 31 as part of Net for Return. The interest and taxes are not included as part of Companywide expenses in Section 9.

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Actual costs: Interest is excluded from actual costs, including the cost recovery of expenditures that flow through balancing or memorandum accounts in Section 10. Expense overheads such as Paid Time Off, Indirect Labor, and Minor Materials may be included in the expense orders and projects, including balancing account expenses. For capital, in addition to Paid Time Off, Indirect Labor, Minor Material, other overheads such as Benefits, Payroll Taxes, Operational Management and Support, Building Services, IT Device Services, Fleet, and Capitalized A&G may be included in capital orders and capital balancing accounts. PG&E's overhead costs are aggregated or "pooled" together and an allocation rate is calculated, typically by dividing the overhead pool by a chosen base (e.g., direct labor hours). This rate is then applied to the specific amount of the base associated with each project or process, allocating a proportionate share of overhead costs to them. Unallocated balances are either corporate expenses, or shared service expenses. PG&E manages its GRC imputed adopted taxes (including Income Tax, Property Taxes, Payroll Taxes and Other Business Taxes) on a total company basis in accordance with federal, state, and local laws. These total company costs are allocated to all customers jurisdictions (California Public Utilities Commission, Federal Energy Regulatory Commission) across different regulatory proceedings (GRC, Transmission Owner, other) and the GRC portion cannot be easily separated. Therefore, taxes are not included in the A&G Section 8, or the Companywide expense presented in Section 9.

D. 2023 Expense and Capital Comparison of Imputed Adopted and Actual Costs Summary

This report provides a summary of PG&E's 2023 GRC cycle actual expense and capital expenditures ¹² compared to imputed adopted costs derived from the Commission's decision on PG&E's 2023 GRC (2023 GRC Final Decision or Decision). ¹³ This report includes expenditures of core functional areas (Electric Distribution, Gas Distribution, GT&S, and Energy Supply) and support organizations (Customer and Communications, Shared Services, IT, Corporate Services, and Companywide Items). PG&E's 2023 GRC application included years 2023 through 2026.

This report complies with D.19-04-020 OP 8, D.22-10-002, and ED's most recent guidance. 14 While this report presents certain functional area expenditures, it is not representative of total Company expenditures. Specifically, this report does not include Electric Transmission costs, and does not include emergency response and restoration costs that are recorded in the Catastrophic Event Memorandum Account (CEMA). Costs that are recorded in non-GRC memorandum accounts included in this report are those that are recorded for certain activities tracked in the Fire Risk Mitigation Memorandum Account (FRMMA) and the Wildfire Mitigation Plan Memorandum Account (WMPMA) because these activities align with activities in PG&E's 2023 GRC, although are incremental to the GRC.

1. Expense

PG&E's 2023 expense spending exceeded imputed adopted values by \$197.5 million. The increase was primarily attributable to Companywide Items and Corporate Services. Spending increases were primarily due higher than expected fees and active employee benefit costs relative to those adopted in the 2023 GRC Final Decision. These increases were

Data is as of January 18, 2024. The imputed values do not reflect any reorganizations. The recorded values do reflect any reorganizations and these reorganizations are explained in the variance explanations. The 2023 data is as filed in PG&E's 2023 GRC and 2020 RAMP.

D.20-12-005.

July 29, 2023, letter from ED Director, Edward Randolph, to PG&E's Executive Vice President of Corporate Affairs, Carla Peterman.

partially offset by lower levels of spending in Gas Distribution, GT&S. Electric, and Shared Services and IT. Spending reductions for Gas Distribution were primarily attributable to: (1) lower volume of third-party tickets received in Locate and Mark, (2) less work performed in meter protection, and (3) lower leak find rate for below ground service leak repairs. Spending reductions for GT&S were primarily attributable to (1) High-Consequence Area (HCA) locations requiring fewer External Corrosion Direct Assessment (ECDA), Internal Corrosion Direct Assessment (ICDA) and Stress Corrosion Cracking Direct Assessment (SCCDA) inspections based on HCA classifications, and (2) reprioritization in support of higher risk or compliance work which impacted project start and construction. Spending reductions for Electric were primarily attributable to: (1) fewer Public Safety Power Shutoff events, and (2) lower patrol response costs for Enhanced Powerline Safety Settings. Spending reductions for Shared Services and IT were primarily due to a change in IT's overhead allocation cost pool that did not impact public or employee safety and reliability.

2. Capital

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In 2023, PG&E's capital spending exceeded imputed adopted values by \$949.0 million. The increase was primarily attributable to additional spending in Electric Distribution and Customer and Communications.

Spending increases for Electric Distribution were primarily attributable to:
(1) completing more miles of system hardening than adopted due to the timing of the 2023 GRC Final Decision, (2) higher volumes and unit costs for overhead maintenance, (3) increased routine emergency, and (4) increased emergency substation equipment replacements. Spending increases for Customer and Communications were primarily attributable to performing activities relating to technology projects to enhance customer service, better manage customer relationships, resolve customer issues, and improve customer on-demand access. The increases were partially offset by lower spending in HR, Corporate Services (A&G), Energy Supply, and GT&S.

1 E. Summary Tables

- 2 PG&E's methodology to derive its imputed adopted costs from the
- 3 2023 GRC Final Decision is described in Appendix A: 2023 GRC Imputed
- 4 Regulatory Values Methodology. The tables below summarize PG&E's 2023
- 5 spending by expense and capital by Functional Area.

TABLE 1-1 2023 RSAR 2023 GRC CYCLE EXPENSE BY FUNCTIONAL AREA (THOUSANDS OF DOLLARS)

	А	В	С	D	E
Line No.	Functional Area	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (C-B)	Percent Variance for 2023 (%) ((C-B)/B*100)
1	Gas Distribution	539,970.8	398,877.9	(141,093.0)	-26.1%
2	Gas Transmission & Storage	575,614.2	471,341.3	(104,272.9)	-18.1%
3	Electric Distribution	2,276,311.8	2,174,314.7	(101,997.1)	-4.5%
4	Energy Supply	595,531.8	601,599.0	6,067.2	1.0%
5	Customer & Communications	346,342.9	347,943.2	1,600.3	0.5%
6	Shared Services/IT	705,344.5	685,161.8	(20,182.8)	-2.9%
7	Human Resources	87,921.5	105,205.7	17,284.2	19.7%
8	Corporate Services	157,044.6	186,038.3	28,993.7	18.5%
9	Companywide Items ^(a)	1,385,252.7	1,896,325.2	511,072.5	36.9%
10	Total	6,669,334.8	6,866,807.0	197,472.2	3.0%

⁽a) Actual costs have been adjusted to exclude amounts that are not recovered from customers. For example, reserves associated with claims, settlements, and worker's compensation have been removed from recorded amounts.

TABLE 1-2 2023 RSAR 2023 GRC CYCLE CAPITAL BY FUNCTIONAL AREA (THOUSANDS OF DOLLARS)

	A	В	С	D	E
Line No.	Functional Area	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (C-B)	Percent Variance for 2023 (%) ((C-B)/B*100)
1	Gas Distribution	942,055.0	976,623.1	34,568.1	3.7%
2	Gas Transmission & Storage	830,998.1	683,509.5	(147,488.6)	-17.8%
3	Electric Distribution	3,549,754.0	4,655,230.9	1,105,477.0	31.1%
4	Energy Supply	400,822.6	315,924.6	(84,898.0)	-21.2%
5	Customer & Communications	141,618.8	184,458.9	42,840.2	30.3%
6	Shared Services/IT	604,013.2	603,869.5	(143.6)	-0.02%
7	Human Resources	1,102.4	539.1	(563.3)	-51.1%
8	Corporate Services	2,756.0	1,996.7	(759.2)	-27.5%
9	Total	6,473,120.0	7,422,152.4	949,032.4	14.7%

F. 2023 Imputed vs. Actual Comparison by Functional Area

The significant drivers of the differences between 2023 imputed adopted and actual costs for each functional area within PG&E are summarized below.

IT costs are presented according to the functional area that drove or initiated the costs.

1. Gas Operations

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a. Gas Distribution

Expense: Gas Distribution's total recorded expenses in 2023 were below the imputed adopted values by \$141.1 million, or 26.1 percent. For safety, reliability, and maintenance work, 2023 recorded expenses were below the imputed adopted values by \$79.3 million, or 18.1 percent. The decrease was primarily attributable to: (1) lower volume of third party tickets received in Locate and Mark, (2) less work performed in meter protection, and (3) lower leak find rate for below ground service leak repairs.

¹⁵ MWC Operational Management (OM) is included as a maintenance activity in accordance with D.19-04-020. Gas Distribution does not consider MWC OM as safety, reliability, and maintenance work.

<u>Capital</u>: Gas Distribution's total 2023 recorded capital expenditures exceeded imputed adopted values by \$34.5 million, or 3.5 percent. For safety, reliability, and maintenance work, 2023 recorded capital expenditures exceeded imputed adopted values by \$7.4 million, or 1.0 percent. The increase was primarily attributable to: (1) execution of High Pressure Regulators, Supervisory Control and Data Acquisition (SCADA) and Overpressure protection capital work prior to receiving the 2023 GRC Final Decision, and (2) emergent compliance work (e.g., copper service replacements) and customer driven/reliability work.

b. Gas Transmission and Storage (GT&S)

 Expense: Gas Transmission's total recorded expenses in 2023 were below the imputed adopted values by \$104.3 million, or 18.1 percent. For safety, reliability, and maintenance work, 2023 recorded expenses were below the imputed adopted values by \$77.6 million, or 14.8 percent. 16 The decrease was primarily attributable to (1) HCA locations requiring fewer ECDA, ICDA and SCCDA inspections based on HCA classifications, (2) reprioritization in support of higher risk or compliance work which impacted project start and construction, and (3) decrease in transmission leak find rate for pipeline maintenance work.

Capital: Gas Transmission's total 2023 recorded capital expenditures were below the imputed adopted values by \$147.5 million, or 17.8 percent. For safety, reliability, and maintenance work, 2023 recorded capital expenditures were below the imputed adopted values by \$129.3 million, or 16.4 percent. The decrease was primarily attributable to: (1) a lower volume of pre-1955 untested pipe identified than expected, (2) a lower volume of identified capital work such as capital upgrades needed to facilitate a strength test being executed, and (3) reprioritization in support of higher risk or compliance work that impacted project start and construction.

¹⁶ MWC Operational Management (OM) is included as a maintenance activity in accordance with D.19-04-020. GT&S does not consider MWC OM as safety, reliability, and maintenance work.

c. Gas Distribution and GT&S portfolio

Gas expense and capital programs were also impacted by in-year reprioritization efforts within Gas and/or Enterprise wide, driven by cost pressures due to an inflationary environment, the Gas workplan exceeding the enterprise set budget, and a need to support higher risk programs. Gas created a bottom-up forecast based on known work that was executable and resource balanced. Gas utilized the Risk Based Portfolio Prioritization Framework (RBPPF) to ensure that high priority and compliance-based MATs were appropriately funded. Programs that did not include mandatory compliance work, regulatory commitments, or high-risk work were considered for funding reallocation after conducting review to account for safety, reliability, capacity, and any other operational risks.

2. Electric Distribution

Expense: Electric Distribution's total recorded expenses in 2023 were below imputed adopted values by \$102.0 million, or 4.5 percent. For safety, reliability, and maintenance work, 2023 recorded expenses were below imputed adopted values by \$38.0 million or 1.7 percent. 17 The decrease was primarily attributable to (1) fewer Public Safety Power Shutoff events, (2) lower patrol response costs for Enhanced Powerline Safety Settings. The underspend was offset by increased costs for inspections, overhead maintenance, routine emergency, and wildfire mitigation work.

Capital: Electric Distribution's total recorded capital expenditures in 2023 exceeded imputed adopted values by \$1,105.5 million, or 31.1 percent. For safety, reliability, and maintenance work, 2023 recorded capital expenditures exceeded imputed adopted values by \$592.3 million or 21.7 percent. The increase was primarily attributable to: (1) completion of more miles of system hardening than adopted due to the timing of the 2023 GRC Final Decision, (2) higher volumes and unit costs for overhead maintenance, (3) increased routine emergency, and (4) increased emergency substation equipment replacements. These increases were

¹⁷ MWC Operational Management (OM) is included as a maintenance activity in accordance with D. 19-04-020. Electric Distribution does not consider MWC OM as safety, reliability, and/or maintenance work.

offset by reductions to: (1) Distribution underground and network proactive asset replacements, (2) proactive reliability improvements, and (3) proactive substation asset replacements. In addition to safety, reliability, and maintenance capital activities, additional spending in New Customer Connections and Work Requested by Others contributed to the total Electric Distribution capital overspend.

3. Energy Supply

This section includes costs associated with Energy Policy and Procurement, Nuclear Generation, and Power Generation other than power purchase agreement and fuel costs.

a. Energy Policy and Procurement

Energy Policy and Procurement's total recorded expenses in 2023 were above imputed adopted values by \$2.6 million, or 5.8 percent. Energy Policy and Procurement's total 2023 recorded capital expenditures were below imputed adopted values by \$4.7 million, or 41.0 percent. The Energy Policy and Procurement Department does not have safety, reliability, or maintenance related work.

b. Nuclear Generation

Expense: Nuclear Generation's total recorded expenses in 2023 were above imputed adopted values by \$9.9 million, or 3.2 percent. For safety, reliability, and maintenance work, 2023 recorded expenses were above imputed adopted values by \$11.1 million, or 4.3 percent. The increase in spending is spread across several MWCs but is primarily driven by higher than forecast spend in preventative and corrective maintenance activities for systems, structures, and components at the plant, and engineering services.

<u>Capital</u>: Nuclear Generation's total 2023 recorded capital expenditures were above imputed adopted values by \$0.13 million, or 1.1 percent. For safety, reliability, and maintenance work, 2023 recorded capital expenditures were below imputed adopted by \$1.5 million or 14.4 percent, primarily driven by Diablo Canyon Power Plant capital replacements.

c. Power Generation

Expense: Power Generation's total expenses in 2023 were below imputed adopted by \$6.5 million, or 2.7 percent. For safety, reliability, and maintenance work, 2023 recorded expenses were below imputed adopted values by \$17.6 million, or 7.9 percent. The decreases are primarily attributable to: (1) the Long-Term Service Agreement costs for Gateway Generation Station and Colusa Generation Station, which did not incur major outage costs in 2023; and (2) a delay in the regulatory process related to receipt of FERC operating license renewals for the Drum-Spaulding license, McCloud-Pit license and the Upper North Fork Feather River license. Delays in receiving license renewals create delays in the start date of the expense work required as part of the new operating license.

Capital: Power Generation's total 2023 recorded capital expenditures were below imputed adopted values by \$80.3 million, or 21.3 percent. For safety, reliability, and maintenance work, 2023 recorded capital expenditures were below the imputed adopted values by \$84.7 million, or 23.0 percent. The decreases were primarily attributable to: (1) a delay in the regulatory process related to FERC operating license renewals for the Drum-Spaulding license, McCloud-Pit license and the Upper North Fork Feather River license which then delayed the start date of the capital work required as part of the new operating license; (2) rescheduled capital projects originating from the spillway assessment recommendations from the 2017 Oroville spillway incident; and (3) rescheduled capital projects related to employee or public safety and regulatory requirements that are not connected with relicensing for hydroelectric generation.

The costs were offset by increases related to: (1) a combination of rescheduled work from 2021 and 2022 into 2023, and emergent work exceeding the forecasted needs at the time of the 2023 GRC, for projects supporting the installation/replacement of generating equipment or components to support hydroelectric generation activities and the installation/replacement of buildings, grounds and infrastructure to support hydroelectric generation activities, including roads and bridges;

and (2) emergent work at Gateway, Colusa and Humboldt natural gas facilities supporting the installation/replacement of generating equipment and components.

4. Customer and Communications

Expense: Customer and Communications' total recorded expenses in 2023 exceeded imputed adopted values by \$1.6 million, or 0.5 percent. For safety, reliability, and maintenance work, 2023 recorded expenses were below imputed adopted values by \$4.9 million, or 9.0 percent. The decrease in spending was primarily attributable to: (1) a reduction in Natural Gas Appliance Testing (NGAT) work performed; and (2) a reduction in gas meter maintenance activities.

<u>Capital</u>: Customer and Communications' total 2023 recorded capital expenditures exceeded imputed adopted values by \$42.8 million, or 30.3 percent. For safety, reliability, and maintenance work, 2023 recorded capital expenditures were below imputed adopted values by \$8.6 million or 7.7 percent. The decrease in spending was primarily attributable to a reduction in new gas meter purchases and the associated labor to perform gas meter installations, exchanges, removals, and retirements.

5. Shared Services/IT

Expense: Shared Services' and IT's total recorded expenses in 2023 were below imputed adopted values by \$20.2 million or 2.9 percent. For safety, reliability, and maintenance work, 2023 recorded expenses exceeded imputed adopted values by \$51.3 million or 7 percent. The decrease was primarily attributable to a change in IT's overhead allocation cost pool that did not impact safety, reliability, or maintenance. The underspend above is partially offset by overspend in CRESS, in connection with wildfire mitigation work that improved or maintained safety, reliability or maintenance.

<u>Capital</u>: Shared Services and IT's total 2023 recorded capital expenditures were below imputed adopted by \$0.14 million, or 0.02 percent. For safety, reliability, and maintenance work, 2023 recorded expenditures were below imputed adopted values by \$56.6 million or 9 percent. This variance is primarily informed by work in safety, reliability, and maintenance.

The decrease was primarily due to delays in CRESS investments for required upgrades to the Napa Regional Center, the Stockton Material Center and the Vacaville Service Center as well as continued efforts to complete Phase 2 of the Wildfire Emergency Generation Enhancement program. The decrease was partially offset by increases in IT technology solutions that addressed the life cycling of obsolete or low-health assets and served to either improve or maintain safety, reliability or maintenance, e.g., continued investments in asset lifecycle programs for Field Area Network communication infrastructure and data center infrastructure (cloud strategy).

6. Human Resources

Expense: HR total recorded expenses in 2023 were above imputed adopted values by \$17.3 million, or 19.7 percent. For safety, reliability, and maintenance work within PG&E Academy, 2023 recorded expenses were below imputed adopted values by \$8.4 million, or 20.8 percent. The majority of the decrease is a reduction in contract support for Electric and Gas Curriculum Development.

<u>Capital</u>: HR total 2023 recorded capital expenditures were below imputed adopted values by \$0.6 million, or 51.1 percent. The majority of the underspend is related to underspend in PG&E Academy.

7. Corporate Services (A&G)

<u>Expense</u>: A&G total recorded expenses in 2023 exceeded imputed adopted values by \$29.0 million, or 18.5 percent. The majority of the increase is due to higher-than-expected legal fees in the Law Organization.

<u>Capital</u>: Total 2023 recorded capital expenditures were below imputed adopted values by \$0.8 million or 27.5 percent. The majority of the underspend is related to reprioritizing these dollars to higher prioritized projects/programs.

8. Companywide Items

Expense: Companywide Items total recorded expenses in 2023 exceeded imputed adopted values by \$511 million, or 36.9 percent. The majority of the increase is due to higher Short Term Incentive Plan and

- active employee benefit costs relative to those adopted in the 2023 GRC
- 2 Final Decision.

PACIFIC GAS AND ELECTRIC COMPANY SECTION 2 GAS OPERATIONS IMPUTED ADOPTED VS. RECORDED COMPARISON

PACIFIC GAS AND ELECTRIC COMPANY SECTION 2 GAS OPERATIONS IMPUTED ADOPTED VS. RECORDED COMPARISON

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PACIFIC GAS AND ELECTRIC COMPANY SECTION 2 GAS OPERATIONS IMPUTED ADOPTED VS. RECORDED COMPARISON

A. Introduction

This section includes the following information for the Gas Operations functional area: a comparison of the total 2023 imputed adopted spend to the actual spend, as well as the required data points per program as defined and required in Decision (D.) 22-10-002. This section also includes, for programs that are related to safety, reliability, or maintenance, the Major Work Category (MWC)/Maintenance Activity Type (MAT) Code descriptions, imputed adopted vs. actual cost comparison details and variance explanations. As required by D.19-04-020, The MWC/MAT Code descriptions include a discussion of how each program/project relates to safety, reliability, or maintenance.

B. Gas Safety Reporting

On October 11, 2022, the California Public Utilities Commission (CPUC or Commission) issued D.22-10-002 in the Order Instituting Rulemaking to Further Develop a Risk-Based Decision-Making Framework for Electric and Gas Utilities Decision to, among other things, modify Pacific Gas and Electric Company's (PG&E) gas safety reporting requirements. Specific to Gas Transmission and Storage (GT&S), D.22-10-002 eliminated the obligation for PG&E to submit a separate GT&S Compliance Report. In compliance with D.22-10-002, PG&E is no longer producing a separate GT&S Compliance Report. Information included in the GT&S Compliance Report that was duplicative with the Risk Spending Accounting Report (RSAR) is now met with the submission of the RSAR. Information unique to the GT&S Compliance Report, which is not contained in the RSAR is available through discovery upon request. This applies to the

D.22-01-002, Appendix A and B.

² Attachment 2, p. 9.

D.22-10-002, Ordering Paragraph 2.

following sections of the GT&S Compliance Report, as identified in the joint motion to eliminate separate gas safety reporting requirements:4

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- Summary of PG&E's progress on safety programs, inspections, and progress toward rate case goal- Summary of Safety Developments Section 1-2;
- Integrated Planning Process—Strategic Planning and Prioritization of Work Section 1-3;
- Safety development and Inspections records discrepancies—Safety
 Developments Section 2-1 and Safety Appendix Table 2-1;5
- Transmission pipeline inspection plan details and progress to plan by work stream—Pipeline Inspection Plan Section 2-2;
- Storage developments and updates to Natural Gas Storage Strategy— Storage Section 2-3;
 - Pipeline piggability status; adopted vs actual mileage for pipe replacement and pipeline replacement completed project detail; adopted vs actual mileage for strength test and strength test completed project detail; long term goals established for these programs and progress towards those goals—Safety related developments specific to ILI, Pipe Replacement, and Strength Test Section 2-4;
- Status of compliance with Title 49 of the Code of Federal Regulations (CFR)
 Part 192 Subpart O and provides copies of Integrity Management
 procedures published in the reporting period—Status Compliance with
 Federal Code on Pipeline Integrity Management Section 2-5 and Safety
 Appendix Table 2-5;
- Status of Valve Automation and Gas Gathering Programs—Valve Automation and Gas Gathering Programs Section 2-6;
- Status of Emergency Response Programs: Valve Automation, Public Awareness, and Valve Safety and Reliability—Emergency Response Programs Section 2-7;

Joint Motion of Southern California Gas Company, San Diego Gas & Electric Company, and Pacific Gas and Electric Company to Eliminate Separate Gas Safety Reporting Requirements, filed July 16, 2020, Attachment 3. For Sections 14b and 15 of the GDPSR Gas Distribution pipelines have not been a part of the Risk Management "Top 100" list.

⁵ Table 2-1 Inspections Records Discrepancies Report.

- Details the amount of funds budgeted at the beginning of each calendar year, provides variance explanations between budget and adopted/imputed regulatory values for SRM MATs, explains how budgets created, and explains how imputed amounts were derived and their relationship to Commission authorized amounts—Explanation of Funds Budgeted, Adopted, and Spent for Each MWC and MAT Code Section 3-1;
 - Appendix: Includes tables for Inspection Records discrepancies, Integrity
 Management standards and procedures published during the reporting
 period, and RAMP narrative explaining the six risks included in the 2018
 RAMP that are applicable to the 2019 GT&S Rate Case—Safety Appendix
 Table 2-6;6 and
- Transmission Pipeline Programs Appendix⁷:
- Resource Planning and Contractor Selection Process—Section 1;
- Quality Assurance and Quality Control—Section 2;
- Procurement Policy and Practices—Section 3;
- Pipeline Disposition Procedures and Costs—Section 4;
- Public Outreach Costs—Section 5;

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- Service Outage Performance—Section 6; and
- Shareholder Costs Absorbed—Section 7.

20 C. Gas Distribution Comparison Summary Tables

⁶ GT&S Compliance Report Safety Appendix Table 2-1 Inspections Records Discrepancies Report, Table 2-5 IM Procedures Published in the Reporting Year and Table 2-6 GT&S RAMP Risks and Mitigations.

⁷ GT&S Compliance Report Transmission Pipeline Programs Appendix.

TABLE 2-1 2023 RSAR 2023 GRC CYCLE GAS DISTRIBUTION EXPENSE COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G		
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)		
1	O&M Expense	Gas Distribution	Misc Expense	AB	46,497.9	7,635.8	(38,862.2)	-83.6%		
2	O&M Expense	Gas Distribution	Perf Reimburs Wk for Oth	ВС	0.0	(49.5)	(49.5)	100.0%		
3	O&M Expense	Gas Distribution	Provide Field Service	DD	58,056.1	53,446.0	(4,610.0)	-7.9%		
4	O&M Expense	Gas Distribution	G Dist Leak Survey	DE	37,857.8	30,124.8	(7,733.0)	-20.4%		
5	O&M Expense	Gas Distribution	G&E T&D Locate and Mark	DF	77,910.9	60,048.1	(17,862.8)	-22.9%		
6	O&M Expense	Gas Distribution	G Dist Cathodic Protection	DG	27,696.7	25,958.5	(1,738.3)	-6.3%		
7	O&M Expense	Gas Distribution	Develop & Provide Training	DN	2,726.3	606.0	(2,120.3)	-77.8%		
8	O&M Expense	Gas Distribution	G Dist Meter Protection	EX	12,709.0	1,005.4	(11,703.7)	-92.1%		
9	O&M Expense	Gas Distribution	G Dist Operate System	FG	10,009.8	8,092.6	(1,917.3)	-19.2%		
10	O&M Expense	Gas Distribution	G Dist Preventive Maint	FH	50,183.4	28,305.9	(21,877.5)	-43.6%		
11	O&M Expense	Gas Distribution	G Dist Corrective Maint	FI/LW	102,075.9	95,255.2	(6,820.7)	-6.7%		
12	O&M Expense	Gas Distribution	Gas Trans & Dist Sys Mapping	GF	4,307.4	5,247.0	939.6	21.8%		
13	O&M Expense	Gas Distribution	Gas Trans & Dist Sys Modeling	GG	9,446.6	4,935.1	(4,511.5)	-47.8%		
14	O&M Expense	Gas Distribution	Manage Energy Efficiency-NonBA	GM	4,592.7	3,453.7	(1,139.0)	-24.8%		
15	O&M Expense	Gas Distribution	R&D Non-Balancing Account	GZ	4,000.3	2,130.1	(1,870.3)	-46.8%		
16	O&M Expense	Gas Distribution	Change/Maint Used Gas Meters	HY	920.5	794.0	(126.5)	-13.7%		
17	O&M Expense	Gas Distribution	G Dist Integrity Mgt (Non Bal)	JQ	29,530.5	21,211.7	(8,318.8)	-28.2%		
18	O&M Expense	Gas Distribution	Maintain IT Apps & Infra	JV	13,486.3	5,761.1	(7,725.1)	-57.3%		
19	O&M Expense	Gas Distribution	G Dist WRO - Maintenance	LK	7,188.8	9,298.3	2,109.5	29.3%		
20	O&M Expense	Gas Distribution	Operational Management		13,394.4	21,468.8	8,074.4	60.3%		
21	O&M Expense	Gas Distribution	Operational Support		27,379.6	14,149.4	(13,230.2)	-48.3%		
22	O&M Expense	Gas Distribution	TOTAL		539,970.8	398,877.9	(141,093.0)	-26.1%		

TABLE 2-2 2023 RSAR 2023 GRC CYCLE GAS DISTRIBUTION CAPITAL COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	Capital	Gas Distribution	Tools & Equipment	05	6,762.8	4,323.5	(2,439.3)	-36.1%
2	Capital	Gas Distribution	G Dist Pipeline Repl Program	14	510,132.5	470,726.0	(39,406.5)	-7.7%
3	Capital	Gas Distribution	Gas Meter Protection-Capital	27	5,475.7	3,042.8	(2,432.8)	-44.4%
4	Capital	Gas Distribution	G Dist Customer Connects	29	72,000.0	101,690.7	29,690.7	41.2%
5	Capital	Gas Distribution	Build IT Apps & Infra	2F	12,365.3	15,187.8	2,822.5	22.8%
6	Capital	Gas Distribution	G Dist Repl/Convert Cust HPR	2K	0.0	18,630.6	18,630.6	100.0%
7	Capital	Gas Distribution	NGV - Station Infrastructure	31	4,889.5	3,489.7	(1,399.8)	-28.6%
8	Capital	Gas Distribution	G Dist Capacity	47	41,830.5	21,979.3	(19,851.2)	-47.5%
9	Capital	Gas Distribution	G Dist Ctrl Operations Assets	4A	530.5	11,693.1	11,162.6	2104.1%
10	Capital	Gas Distribution	G Dist Reliability General	50/3P	209,328.3	239,016.3	29,687.9	14.2%
11	Capital	Gas Distribution	G Dist WRO	51	74,841.9	71,891.4	(2,950.5)	-3.9%
12	Capital	Gas Distribution	G Dist Leak Repl/Emergency	52	1,640.5	4,647.7	3,007.2	183.3%
13	Capital	Gas Distribution	Install New Gas Meters	74	2,257.4	10,296.8	8,039.4	356.1%
14	Capital	Gas Distribution	Manage Buildings	78	0.0	7.4	7.4	100.0%
15	Capital	Gas Distribution	TOTAL		942,055.0	976,623.1	34,568.1	3.7%

D. Gas Distribution Comparison by MAT for Safety, Reliability, and Maintenance Work Tables

TABLE 2-3
2023 RSAR
2023 GRC CYCLE GAS DISTRIBUTION EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

A	B C1	C2	C3 C4	C5	C6	C7	D	E	F	G H	1	J	К	L	M	N O	P	Q	R	S	T	U1	U2	U3	V	W
Type (O&M					RAMP Mitigation and/or	2023 GRC	RAMP Roll-		Brogram /	2023 Imputed 2023	Difference	Spending Percent	Spending Variance	Percentage Variance	•	2023 Imputed 2023 Actual	Difference for Unit F	Percent Un	nit Variance Explanation	2023 Cost	2023 Unit		Forecast			
Line No Expense or Capital)	Functional Area MW	C MWC Name	MAT MAT Name	RAMP Risk Name	Control Name	Testimony Reference	up (Yes/No)	Project Life (years)	Program / Project Year	Imputed Actual Actual Costs	for 2023 (\$ (H-G)	Variance fo 2023 (%) ((H-G)/G*100	r Explanation Required	Explanation	n Unit Type	Adopted Units Units	Units) 202	3 (%)	Required (Y/N)	Variance Explanation	Variance Explanation	Scope (U, O, or T)	Schedule (U. O. or T)	Budget	Status	Completion Status Statement
O&M 1 Expense	Gas Distribution DD	Provide Field Service	DDA Field Services: Othe	r SRM Total (Non-RAMP) SRM Total (Non-RAMP)	Ex 3, Ch 8	No	On-going	Annual	0.0 (25.8) (25.8)	100.0%	NO	NO	non-unitized: This MAT has no measurable units because it is used for other support costs for field services.	s N/A N/A	N/A N	l/A	NO I	Below variance threshold.	Not-Unitized.	On-Target			Proceeding as Planned	. NA
O&M 2 Expense	Gas Distribution DD	Provide Field Service	DDD Pilot Relight	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 8	No	On-going	Annual	12,170.2 11,078	3 (1,091.9)	-9.0%	NO	NO	service tickets	138,946 110,292	(28,654) -20	1.6%	YES	Below variance threshold.	Actual units were lower than imputed due to lower customer demand of Pilot Relight calls.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's customer demand driven work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to serve customers and provide relight service as needed.
O&M 3 Expense	Gas Distribution DD	Provide Field Service	DDE Appliance Adjs	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 8	No	On-going	Annual	1,153.0 1,557.	404.4	35.1%	NO	NO	service tickets	12,142 13,949	1,807 14	.9%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	I N/A
O&M 4 Expense	Gas Distribution DD	Provide Field Service	Gas Fumigation DDF Activity	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	3,595.1 2,840.	5 (754.6)	-21.0%	NO	NO	service tickets	34,152 23,250	(10,902) -31	.9%	YES	Below variance threshold.	Actual units were lower than imputed due to lower customer demand of Fumigation Activity calls.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's customer demand driven work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to serve customers and provide furnigation service as needed.
O&M 5 Expense	Gas Distribution DD	Provide Field Service	Gas Fumigation DDF Activity	Loss of Containment on Go Customer Connected Equipment	CCEPQ-C015 Gas Fumigation	Ex 3, Ch 8	No	N/A	N/A	3,595.1 2,840.	5 (754.6)	-21.0%	N/A	N/A	N/A	34,152 23,250	(10,902) -31	.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M 6 Expense	Gas Distribution DD	Provide Field Service	Gas Leaks & DDG Emergencies	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	31,401.0 32,227	0 826.1	2.6%	NO	NO	service tickets	160,514 120,636		.8%	YES	Below variance threshold.	Actual units were lower than imputed due to lower customer demand of Gas Leak & Emergency calls.	On-Target	On-Target	On-Target	Proceeding as planned	This program's customer demand driven work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort for customer safety.
O&M 7 Expense	Gas Distribution DD	Provide Field Service	Gas Leaks & DDG Emergencies	Loss of Containment on Go Customer Connected Equipment	CCEPQ-C007 Gas Leaks and Emergencies	Ex 3, Ch 8	No	N/A	N/A	31 401 0 32 227	0 826.1	2.6%	N/A	N/A	N/A	160,514 120,636	(39.878) -24	8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M 8 Expense	Gas Distribution DD	Provide Field Service	DDK Gas Start	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 8	No	On-going	Annual	5,142.1 4,243.	0 (899.1)	-17.5%	NO	NO	service tickets	45,509 32,056	(13,453) -29	1.6%	YES	Below variance threshold.	Actual units were lower than imputed due to lower customer demand of Gas Start calls.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's customer demand driven work is ongoing and will continue in PG&Es 2023 GRC period. The purpose of this program is a continuing effort to serve customers and provide gas start service and safety checks.
O&M																					Actual units were lower than imputed due to lower					This program's customer demand driven work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing
9 Expense	Gas Distribution DD	Provide Field Service	DDL Gas Stop	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 8	No	On-going	Annual	4,594.7 1,525.	5 (3,069.2)	-66.8%	NO	NO	service tickets non-unitized: This MAT has no measurable	77,877 16,453	(61,424) -78	1.9%	YES	Below variance threshold.	customer demand of Gas Stop calls.	On-Target	On-Target	On-Target	Proceeding as Planned	effort to serve customers and provide gas stop service.
O&M 10 Expense	Gas Distribution DD	Provide Field Service	DD# Not assigned	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 8	No	On-going	Annual	0.0 0.1	0.1	100.0%	NO	NO	units because it is used for adjustments related to labor and overheads under MWC DD.	N/A N/A	N/A N	VA.	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A
O&M 11 Expense O&M 12 Expense	Gas Distribution DE	G Dist Leak Survey G Dist Leak Survey	DEA Leak Survey	SRM Total Loss of Containment on G: Customer Connected Equipment	SRM Total sas CCEPO-C004 CCE Leak Management	Ex 3, Ch 10	No No	On-going N/A	Annual N/A	10,306.7 15,558 10,306.7 15,558		51.0% 51.0%	NO N/A	YES	services surveyed	455,760 1,233,158 455,760 1,233,158		0.6%		Program expenses exceeded imputed regulatory values due to a shift from MAT DEF to MAT DEA, leveraging Advanced Mobile Leak Detection (Picarro) cars to reduce emissions in the gas system faster, and drive down risk in the system utilizing the Super Emitter Program.	Actual units were higher than imputed units due to a shift from MAT DEF to MAT DEA, leveraging Advanced Mobile Leak Detection (Plearro) cars to reduce emissions in the gas system faster, and drive down risk in the system utilizing the Super Emitter Program.	Over N/A	Over N/A	Over N/A	Emergent N/A	NA NA
O&M 13 Expense	Gas Distribution DE	G Dist Leak Survey	DEA Leak Survey	Loss of Containment on Go Distribution Main or Service	LOCDM-C014 Distribution Leak Management	Ex 3, Ch 10	No	N/A	N/A	10,306.7 15,558	2 5,251.5	51.0%	N/A	N/A	N/A	455,760 1,233,158	777,398 170	0.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M 14 Expense	Gas Distribution DE	G Dist Leak Survey	DEB Special Leak Survey	SRM Total Loss of Containment on G.	SRM Total	Ex 3, Ch 10	No	On-going	Annual	2,810.1 3,436.	2 626.1	22.3%	NO	NO	non-unitized: This program has no measurable units because distribution leak survey units are typically counted in survey cases are no measurable units for main surveyed. Special leak survey is not limited to services and at times is a man only survey, and includes super emitter leak survey for action emissions reduction which tracks the percent of system surveyed.	NA NA	N/A N	I/A	NO I	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	I NA
O&M 15 Expense	Gas Distribution DE	G Dist Leak Survey	DEB Special Leak Survey	Customer Connected Equipment	CCEPQ-C004 CCE Leak Management	Ex 3, Ch 10	No	N/A	N/A	2,810.1 3,436.	2 626.1	22.3%	N/A	N/A	N/A	N/A N/A	N/A N	I/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M 16 Expense	Gas Distribution DF	G Dist Leak Survey	DEB Special Leak Survey	Loss of Containment on Go Distribution Main or Service	ias LOCDM-C014 Distribution Leak	Ex 3, Ch 10	No	N/A	N/A	2,810.1 3,436.	626.1	22.3%	N/A	NVA	N/A	N/A N/A	N/A N	VA.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M 17 Expense	Gas Distribution DE	G Dist Leak Survey	DEC Downgrade No Repai	ir SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	3,522.1 4,340.	4 818.3	23.2%	NO NO	NO NO	Leaks Downgraded with no repair	8,936 2,272		.6%		Below variance threshold.	Actual units were lower than imputed units due to grade three leaks that were downgraded from a grade two leak now being charged to the respective repair MAT (FIG, FIP or FIH).		On-Target	On-Target	Proceeding as Planned	This program's work is orgoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to reduce risk across gas assets through inspection. This includes instances where a leak is downgraded from its original grade to a grade which is less hazardous, non-hazardous, or if the leak is no longer found.
O&M 18 Expense	Gas Distribution DE	G Dist Leak Survey	DEC Downgrade No Repai	Loss of Containment on Go ir Distribution Main or Service	LOCDM-C014 Distribution Leak Management	Ex 3, Ch 10	No	N/A	N/A	3,522.1 4,340.	818.3	23.2%	N/A	N/A	N/A	8,936 2,272	(6,664) -74	.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M 19 Expense	Gas Distribution DE	: G Dist Leak Survey	DED Rechecks	SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	2,562.0 862.4	(1,699.5)	-66.3%	NO	NO	# of rechecks performed	43,484 22,431	(21,053) -48	1.496	YES	Below variance threshold.	Actual units were lower than imputed units due: 1) leak find rates have decreased since the years 2002-2002 due to more frequent leak surveys; 210 per program was to the program was recluded date, regardless of the compliance due date; and 3) Grade three leaks were added to the schedule for repair versus prior years where these leaks were not on a repair cycle.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to reduce risk across gas assets through follow up leak rechecks.
20 Expense	Gas Distribution DE	G Dist Leak Survey	DED Rechecks	Distribution Main or Service	Management Management	Ex 3, Ch 10	No	N/A	N/A	2,562.0 862.4	(1,699.5)	-66.3%	N/A	N/A	N/A	43,484 22,431	(21,053) -48	.4%	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A

TABLE 2-3 2023 RSAR C CYCLE GAS DISTRIBUTION EXPENSE COMPARISON BY MAT F

Δ.		B	Ct	C2 C3	C4	C5	C6			F	F G	н			К	Т м	N	T o 1	P	Ι ο	T R T	S S	Т	Ги	l ID	U3	V		W
Typ Line No. (O8			C1	, L				2023 GRC	RAMP Roll- Prog	gram /	2023	2023 D	Spi	ending S	Spending Percentage Variance Variance	m	.,,		Difference fo	r Unit Percent		2023	2023	01	Forecast	1 00			
Line No Expen: Capi	e or	tional Area M	MWC MWC	Name MA	T MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	Testimony Reference	up Proje	-4136- 7	Program / Imputed roject Year Adopted Costs	Actual fo	r 2023 (\$) Varia (H-G) 20:	ance for Ex 23 (%)	xplanation Explanation Required Required	Unit Type	2023 Impute Adopted Unit	2023 Actual Units	2023 (# of Units) (O-N)	Variance for 2023 (%) ((O-N)/N*100)	Required	Cost Variance Explanation	Unit Variance Explanation	Scope	Schedule	Budget	Statu	5	Completion Status Statement
O&M 21 Expens		istribution	DE G Dist Lea	k Survey DEI	E Customer Calls	SRM Total	SRM Total	Ex 3, Ch 10	No On-	going	Annual 789.1	0.0)/G*100) 00.0%	(Y/N) (Y/N)	# of Customer Calls	3,693	0	(3,693)	-100.0%		·	Actual units were lower than imputed due to the decommissioning of MAT DEE in 2023 with work transitioning to either MAT FIG or MAT FIP if a leak is found, or to MAT DOG if no leak was found when surveyor is called out to investigate a customer initiated odor call.	(U, O, or T)	(U, O, or T)	(U, O, or T)	Cancel	N fe	This program is being decommissioned with work transitioning to either AT FIG or MAT FIP If a leak is found, or to MAT DDG if no leak was ound when a surveyor is called out to investigate a customer initiated odor al.
O&M						Loss of Containment on Ga Customer Connected	S CCEPQ-C004 CCE Leak																						
22 Expens	Gas Di	istribution	DE G Dist Lea	k Survey DE	E Customer Calls	Equipment	Management	Ex 3, Ch 10	No N	V/A	N/A 789.1	0.0	(789.1) -10	00.0%	N/A N/A	N/A	3,693	0	(3,693)	-100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	'A
O&M 23 Expens	Gas Di	istribution	DE G Dist Lea	k Survey DE	E Customer Calls	Loss of Containment on Ga Distribution Main or Service	LOCDM-C014 Distribution Le Management	ak Ex 3, Ch 10	No N	WA.	N/A 789.1	0.0	(789.1) -10	00.0%	N/A N/A	N/A	3,693	0	(3,693)	-100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	VA.
O&M 24 Expens	Gas Di	istribution	DE G Dist Lea	k Survey DE	Advanced Mobile F Technology	SRM Total	SRM Total	Ex 3, Ch 10	No On-	going	Annual 12,396.0	2,785.5	9,610.5) -7	7.5%	NO YES	services surveyed	905,956	244,897	(661,059)	-73.0%	S	Program expenses were below imputed regulatory values due to a shift from MAT DEF to MAT DEA, leveraging Advanced Mobile Leak Detection (Picarro) cars to reduce emissions in the gas system faster, and drive down risk in the system dutilizing the Super Emitter Program.	Actual units were lower than imputed units due to a shift from MAT DEF to MAT DEA, leveraging Advanced Mobile Leak Detection (Picarro) cars to reduce emissions in the gas system faster, and drive down risk in the system utilizing the Super Emitter Program.	Under	Under	Under	Resched	T uled b	his program will not meet the imputed units as all DEF units have now een optimized to DEA units.
O&M 25 Expens	Gos Di	istribution	DE G Dist Lea	k Survey DE	Advanced F MobileTechnology	Loss of Containment on Ga Customer Connected Equipment	CCEPQ-C004 CCE Leak Management	Ex 3, Ch 10	No N	WA.	N/A 12,396.0	2,785.5 (9,610.5) -7	7.5%	N/A N/A	N/A	905,956	244,897	(661,059)	-73.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A		HA.
25 Expens	Gas Di	IST IDUIOT	DE G DISC LEI	k Survey DE	Advanced		s LOCDM-C014 Distribution Le		NO N	WA .	N/A 12,396.0	2,765.5	9,610.5) -7	7.5%	IVA IVA	IVA	905,956	244,097	(661,059)	-73.0%	N/A	TWA .	IVA	IVA	IWA	INA	INA		^
26 Expens	Gas Di	istribution	DE G Dist Lea	k Survey DE	F MobileTechnology	y Distribution Main or Service	Management	Ex 3, Ch 10	No N	WA.	N/A 12,396.0	2,785.5	9,610.5) -7	7.5%	N/A N/A	N/A	905,956	244,897	(661,059)	-73.0%	N/A I	N/A	N/A	N/A	N/A	N/A	N/A	N	/A
O&M 27 Expens	Gas Di	istribution	DE G Dist Lea	k Survey DE	H GD Capacity Upr.		SRM Total et CPCTY-M007 Distribution	Ex 3, Ch 11	No On-	going	Annual 2,434.8	1,962.6	(472.2) -1	9.4%	NO NO	non-unitized: This program has no measurable units because it includes various activities to support pressure changes (e.g. engineering activities, repairs as needed, temporary piping needed) which cannot be measured in a meaningful way using a single unit of measure.	N/A	N/A	N/A	N/A	NO E	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as	Planned N	и
28 Expens	Gas Di	istribution	DE G Dist Lea	k Survey DE	H GD Capacity Upra	ates Customer Demand	Uprates and Downrates	Ex 3, Ch 11	No N	WA.	N/A 2,434.8	1,962.6	(472.2) -1	9.4%	N/A N/A	NA	N/A	N/A	N/A	N/A	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	N	/A
O&M 29 Expens	Gas Di	istribution	DE G Dist Lea	k Survey DE	# Not assigned	SRM Total Loss of Containment on Ga	SRM Total	Ex 3, Ch 10	No On-	going	Annual 3,036.9	1,179.4 ((1,857.5) -6	1.2%	NO NO	non-unitized: This MAT has no measurable units because it is used to record other support costs for leak survey.	N/A	N/A	N/A	N/A	NO E	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as	Planned N	VA.
O&M 30 Expens	Gas Di	istribution	DE G Dist Lea	k Survey DE	# Not assigned	Customer Connected Equipment	CCEPQ-C004 CCE Leak Management	Ex 3, Ch 10	No N	V/A	N/A 3,036.9	1,179.4 (1,857.5) -6	1.2%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	VA.
O&M 31 Expens	Gas Di	istribution	DF G Dist Le	k Survey DE	# Not assigned	Loss of Containment on Ga	s LOCDM-C014 Distribution Le	ak Ex 3, Ch 10	No N	WA.	N/A 3.036.9	1,179.4 (1,857.5) -6	1.2%	N/A N/A	N/Δ	N/A	N/A	N/A	N/A	N/A	N/Δ	N/Δ	N/A	N/A	N/A	N/A		MA.
O&M 32 Expens		istribution	G&E T&D				SRM Total	Ex 3, Ch 8	No On-	going	Annual 75,271.7			3.6%	YES YES	# of USA Tickets worked	863,682	611,600	(252,082)	-29.2%	F	Program expenses were below imputed regulatory values due to the ticket increase from third-party driven work not materializing as expected. A charge in the ticket system used by USA North 811 resulted in less engagement of excavators with the 811 system.	Actual units were lower than imputed units due to the ticket increase from third-party driven work not materializing as expected. A change in the ticket system used by USA North 811 resulted in less engagement of excavators with the 811 system.		On-Target	Under	Proceeding as	T 2	This program's demand driven work is ongoing and will continue in PG&E's 1023 GRC period. The purpose of this program is a continuing effort to rotect underground PG&E assets and maintain excavator safety in coordance with state and federal color
O&M	00	istribution	G&E T&D	Locate and	A Locate and Mark	Loss of Containment on Ga	LOCDM-C017 Locate and Mark - Distribution	Ex 3, Ch 8		J/A	N/A 75 271 7		17 746 9) -2		N/A N/A	AVA			(252 082)		N/A			N/A			N/A		
O&M 34 Expens		istribution	G&E T&D DF Mark		Locate and Mark	- SRM Total	SRM Total	Ex 3, Ch 8	No N	aoina	N/A /5,2/1./	57,524.8 (°	.,,,	5.7%	NO NO	# of sites requiring a standby	863,682	611,600 528	(114)	-29.2%		Below variance threshold.	Below variance threshold.		N/A On-Target	N/A On-Target		1	WA This program has no end date. The purpose of this program is a continuing flort to protect underground PG&E assets and maintain excavator safety accordance with state and federal code. This work is demand driven.
O&M			G&E T&D	Locate and	Locate and Mark	- Loss of Containment on Ga	s LOCDM-C017 Locate and																						
35 Expens	Gas Di	istribution	DF Mark	DFI	B Standby	Distribution Main or Service	Mark - Distribution	Ex 3, Ch 8	No N	VA.	N/A 447.9	288.1	(159.8) -3	5.7%	N/A N/A	N/A	642	528	(114)	-17.8%	N/A N	N/A	N/A	N/A	N/A	N/A	N/A	١	<u>/A</u>
O&M 36 Expens	Gae Di	istribution	G&E T&D	Locate and DF	# Not assigned	SRM Total	SRM Total	Ex 3, Ch 8	No. C-	going	Annual 2,191.2	2,235.1	43.9 2	1.0%	NO NO	non-unitized: This MAT has no measurable units because it is used to record other support costs and fees for locate and mark.	N/A	N/A	N/A	N/A	NO.	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as	Planned A	WA
O&M	. Gus Di		G&E T&D				IS LOCDM-C014 Distribution Le		IND OIL	gorig	, us will 2, 101.2		70.0				INO	INO.	ING	1975		The second of th) ***	Jii Taiget	Oil raiget	511 Taiget	ooccuring do		
37 Expens	Gas Di	istribution	DF Mark		# Not assigned	Distribution Main or Service		Ex 3, Ch 8	No N	WA.	N/A 0.0	2,235.1	2,235.1 10	10.0%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	١	'A
O&M 38 Expens	Gas Di	istribution	G&E T&D DF Mark	Locate and DF	# Not assigned	Loss of Containment on Ga Distribution Main or Service	LOCDM-C014 Distribution Le Management	ak Ex 3, Ch 8	No N	WA.	N/A 2,191.2	0.0	2,191.2) -10	00.0%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	٨	/A
O&M 39 Expens	Gas Di	istribution I	G Dist Ca	hodic DG	Cath Protect - A Monitoring	SRM Total	SRM Total	Ex 3. Ch 9	No. One	going	Annual 4,189.3	5,055.7	866.4 2	0.7%	NO NO	# of monitoring points read	79,622	97,642	18,020	22.6%	YES F		Actual units were higher than imputed units due to additional assets that required annual cathodic protection monitoring identified by the Electrically Connected Isolated Steel Service Program (MAT DGE). Annual cathodic protection monitoring is required by 49 GFR Section 192 Subpart I - Requirements for Corrosion Control.	On-Target	On-Target	On-Target	Proceeding as	Planned N	NA.
O&M			G Dist Ca	hodic	Cath Protect -	Loss of Containment on Ga	s LOCDM-C018 Distribution	7, 2								J													
40 Expens	Gas Di	istribution [DG Protection G Dist Ca	DG.	A Monitoring Cath Protect-	Distribution Main or Service	Corrosion Control Program		No N	V/A	N/A 4,189.3			0.7%	N/A N/A	N/A	79,622	97,642	18,020	22.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	<u>A</u>
41 Expens	Gas Di	istribution [DG Protection	DG	B Troubleshoot	SRM Total	SRM Total	Ex 3, Ch 9	No On-	going	Annual 5,017.2	7,483.6	2,466.4 4	9.2%	NO NO	# of CPA's troubleshot	14,103	14,872	769	5.5%	NO E	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as	Planned N	A
O&M 42 Expens	Gas Di	istribution [G Dist Ca DG Protection	DG	Cath Protect- Troubleshoot	Loss of Containment on Ga Distribution Main or Service	LOCDM-C018 Distribution Corrosion Control Program	Ex 3, Ch 9	No N	N/A	N/A 5,017.2	7,483.6	2,466.4 4	9.2%	N/A N/A	N/A	14,103	14,872	769	5.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	/A
O&M 43 Expens	Gas Di	istribution I	G Dist Ca DG Protection	hodic DG	Cath Protect - C Rectifier Maint	SRM Total	SRM Total	Ex 3, Ch 9	No On-	going	Annual 633.2	1,359.7	726.5 11	4.7%	NO NO	# of rectifiers maintained	3,942	4,060	118	3.0%	NO E	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as	Planned N	/A
O&M 44 Expens	Gas Di	istribution [G Dist Ca	hodic DG	Cath Protect - C Rectifier Maint	Loss of Containment on Ga Distribution Main or Service	LOCDM-C018 Distribution Corrosion Control Program	Ex 3, Ch 9	No N	√A	N/A 633.2	1,359.7	726.5 11	4.7%	N/A N/A	N/A	3,942	4,060	118	3.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	_	WA
O&M 45 Expens		istribution (G Dist Ca	hodic	Cath Protect - D Resurvey	SRM Total	SRM Total	Ex 3, Ch 9		'ears	7 3,795.7			3.0%	NO NO	non-unitized: This program has no measurable units because of the mixture of work, however, survey mileage is tracked to indicate overall program progress. Survey findings may lead to additional work in MAT DGB or MAT FII.	N/A	N/A	N/A	N/A		Below variance threshold.	Not-Unitized.				Proceeding as		VA

TABLE 2-3 2023 RSAR

A	B C1	C2	C3 C4	C5	C6	C7	D	E	F	G H	I	Spending	K Spending	L M Percentage		N O	P	9	R	S	T	U1	U2	U3	V	W
Line No Expense or	Functional Area MWC	C MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony	RAMP Roll- up	Project Life	Program / Project Year	2023 Imputed Adopted Costs	Difference for 2023 (\$)	Percent Variance for	Variance Explanation	Variance Explanation Unit Type		3 Imputed 2023 Act	Difference f 2023 (# of Units)	Variance for	Unit Variance Explanation Required		2023 Unit Variance	-	Forecast		Status	Completion Status Statement
Capital)						Reference	(Yes/No)	(years)	,	Costs	(H-G)	2023 (%) ((H-G)/G*100)	Required (Y/N)	Required (Y/N)			Units) (O-N)	((O-N)/N*100)	(Y/N)	Explanation	Explanation	(U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)		
O&M		G Dist Cathodic	Cath Protect -	Loss of Containment on Gas	LOCDM-M003 Enhanced CP Survey and Unprotected Main																					
46 Expense (Sas Distribution DG	Protection	DGD Resurvey	Distribution Main or Service	Evaluation	Ex 3, Ch 9	No	N/A	N/A	3,795.7 3,569.7	(226.0)	-6.0%	N/A	N/A N/A		N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
														non-unitized: This program has units because there are multip	ple aspects of the											
														work including field survey, SA updates, and GIS mapping to survey, however, service rise	complete the											
O&M		G Dist Cathodic	G:Isolated Steel Svc											tracked to indicate overall pro Survey findings may lead to a	ogram progress. additional work in											
47 Expense (Gas Distribution DG	Protection	DGE Evaluatn		SRM Total LOCDM-C022 Electrically	Ex 3, Ch 9	No	7 Years	7	6,548.2 4,083.5	(2,464.7)	-37.6%	NO NO	NO MAT DGB or MAT FII.		N/A N/A	N/A	N/A	NO NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Plann	ed N/A
O&M 48 Expense	Gas Distribution DG	G Dist Cathodic Protection	G:Isolated Steel Svc DGE Evaluatn	Loss of Containment on Gas Distribution Main or Service	Connected Isolated Steel Services	Ex 3, Ch 9	No	N/A	N/A	6,548.2 4,083.5	(2,464.7)	-37.6%	N/A	N/A N/A		N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A
														non-unitized: This program has units because of the mixture o survey mileage is tracked to in	of work, however,											
O&M 49 Expense (Gas Distribution DG	Cathodic Protection	Unprotected Steel DGF Main Evaluation	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	0.0 0.0	0.0	100.0%	NO	program progress. Survey fin NO to additional work in MAT DGI	ndings may lead	N/A N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Plann	ed N/A
O&M			Unprotected Steel	Loss of Containment on Gas	LOCDM-C029 Unprotected																					
50 Expense (Sas Distribution DG	Cathodic Protection	DGF Main Evaluation	Distribution Main or Service	Steel Main Evaluation	Ex 3, Ch 9	No	N/A	N/A	0.0 0.0	0.0	100.0%	N/A	N/A N/A		N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																					Actual units were lower than imputed units due to: 1) reprioritization in support of higher risk or compliance					
		0.00																			work; and 2) higher than expected unit costs due to the need for more detailed permit sketches to meet agency					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to install test facilities on steel GD
O&M 51 Expense (Gas Distribution DG	G Dist Cathodic Protection	Install casing test DGG stations	SRM Total	SRM Total	Ex 3, Ch 9	No	8 Years	4	3,249.6 2,495.5	(754.1)	-23.2%	NO	NO # of casings mitigated		140 37	(103)	-73.6%	YES	Below variance threshold.	requirements, permitting and restoration costs, and increases in contract labor costs.	Under	Under	Under	Rescheduled	casings in order to perform voltage measurements to verify electric isolation from the encased steel GD gas carrier pipe.
O&M 52 Expense	Sas Distribution DG	G Dist Cathodic Protection	Install casing test DGG stations	Loss of Containment on Gas Distribution Main or Service	I OCDM-C019 Casings	Ex 3, Ch 9	No	N/A	N/A	3,249.6 2,495.5	(754.1)	-23.2%	N/A	N/A N/A		140 37	(103)	-73.6%	N/A	N/A	N/Δ	N/A	N/A	N/A	N/A	N/A
S2 Expense	Sas Distribution DG	Protection	DGG SIALUIS	Distribution want or Service	ECCONI-COTS Casings	Ex 3, GI18	NU	INA	N/A	3,249.0 2,495.5	(754.1)	-23.2%	NA	IVA IVA		140 37	(103)	-73.0%	NA	ien.	NA .	IVA	INA	INA	IVA	IWA
O&M	D. D. J.	G Dist Cathodic	Casing mitigate < that	an COMT	00147	F 0 0 0	l												V50		Actual units were lower than imputed units due to: 1) cancellation of jobs (found isolated during testing), and 2	0 7				This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to mitigate metallically short casings
53 Expense (Sas Distribution DG	Protection			SRM Total	Ex 3, Ch 9	No	On-going	Annual	4,263.5 1,910.8	(2,352.7)	-55.2%	NO	NO # of casings mitigated		33 12	(21)	-63.6%	YES	Below variance threshold.	permitting delays and challenges with external agencies.	On-Target	On-Target	On-Target	Proceeding as Plann	ed period. The purpose of this program is to mitigate metallically short casings
O&M 54 Expense (Gas Distribution DG	G Dist Cathodic Protection	Casing mitigate < that DGH 100ft	Loss of Containment on Gas Distribution Main or Service	LOCDM-C019 Casings	Ex 3, Ch 9	No	N/A	N/A	4,263.5 1,910.8	(2,352.7)	-55.2%	N/A	N/A N/A		33 12	(21)	-63.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
																										This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to complete remediations to the
O&M		G Dist Meter																		Program expenses were below imputed regulatory values due t						AOC (Abnormal Operating Conditions) backlog in a reasonable amount of time while at the same time also performing ongoing AOC findings and
55 Expense (Sas Distribution EX	Protection	EXB MPP Protections	SRM Total Loss of Containment on Gas	SRM Total	Ex 3, Ch 8	No	On-going	Annual	12,709.0 1,005.4	(11,703.7)	-92.1%	YES	YES # of locations	1	15,429 1,255	(14,174)	-91.9%	YES	reprioritization in support of higher risk or compliance work.	work.	On-Target	On-Target	On-Target	Proceeding as plann	repairs with available resources.
O&M 56 Expense (Sas Distribution EX	G Dist Meter Protection	EXB MPP Protections	Customer Connected Equipment	CCEPQ-C001 Meter Protection	Ex 3, Ch 8	No	N/A	N/A	12,709.0 1,005.4	(11,703.7)	-92.1%	N/A	N/A N/A	1	15,429 1,255	(14,174)	-91.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
														non-unitized: This MAT has no units because it is used to rec	cord staffing											
57 Expense (Sas Distribution FG	G Dist Operate System	Gas Distribution FGA Control Centr	SRM Total	SRM Total	Ex 3, Ch 11	No	On-going	Annual	8,861.5 7,168.4	(1,693.1)	-19.1%	NO	related costs for Gas Distribut NO Center employees.		N/A N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Plann	ed N/A
O&M	Sas Distribution FG	G Dist Operate System	Gas Distribution FGA Control Centr	Loss of Containment on Gas Customer Connected	CCEPQ-C006 Gas Distribution	Ex 3, Ch 11	No	N/A	N/A	8,861.5 0.0	(8,861.5)	-100.0%	N/A	NA NA		N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
58 Expense (sas Distribution PG			Equipment		ex 3, GITTI	NU	INA	N/A	8,861.5 0.0	(0,001.3)	-100.0%	N/A	IVA IVA		NA NA	INA	NA	NA	IWA	IVA	IVA	INA	INA	IVA	IWA
O&M 59 Expense (Gas Distribution FG	G Dist Operate System	Gas Distribution FGA Control Centr	Insufficient Capacity to Meet Customer Demand	t CPCTY-C001 Gas Distribution Control Center Operations	Ex 3, Ch 11	No	N/A	N/A	8,861.5 0.0	(8,861.5)	-100.0%	N/A	N/A N/A		N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
O&M		G Dist Operate	Gas Distribution	Loss of Containment on Gas	LOCDM-C015 Gas Distribution																					
60 Expense (Sas Distribution FG	System	FGA Control Centr	Distribution Main or Service Large Overpressure Event	Control Center Operations	Ex 3, Ch 11	No	N/A	N/A	8,861.5 7,168.4	(1,693.1)	-19.1%	N/A	N/A N/A		N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M 61 Expense (Sas Distribution FG	G Dist Operate System	Gas Distribution FGA Control Centr	Downstream of Gas M&C	LRGOP-C014 Gas Distribution Control Center Operations	Ex 3, Ch 11	No	N/A	N/A	8,861.5 7,168.4	(1,693.1)	-19.1%	N/A	N/A N/A		N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M		G Dist Operate												non-unitized: This program has units because it encompasses different O&M activities. A co	s a variety of											
62 Expense (Gas Distribution FG	System	FGB Op Distr-G Mns/Svcs	s SRM Total	SRM Total	Ex 3, Ch 11	No	On-going	Annual	968.1 702.2	(265.9)	-27.5%	NO	NO operations completed is captu		N/A N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Plann	ed N/A
O&M 63 Expense	Sas Distribution FG	G Dist Operate System	EGR On Dietr G Mac/Supe	Loss of Containment on Gas Distribution Main or Service	LOCDM-C015 Gas Distribution	Ex 3, Ch 11	No.	N/A	N/A	968 1 702 2	(265.0)	27.50	N/A	N/A N/A		N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
63 Expense	sas Distribution PG	System	T GB Op Disti-G Wills/SVCs	Distribution Wall of Service	Control Center Operations	EX 3, GITTI	NO	INA	INA	906.1 702.2	(203.9)	-27.5%	INA	IVA IVA		NA NA	INA	INA	NA	ivo.	NA .	IVA	INA	INA	INA	IWA
														non-unitized: This program has units because it encompasses	s a variety of											
O&M 64 Expense (Sas Distribution FG	G Dist Operate System	FGC Op Distr-G Reg Genl	I SRM Total	SRM Total	Ex 3, Ch 11	No	On-going	Annual	180.2 222.0	41.7	23.2%	NO	different O&M activities. A co operations completed is captu	ount of the ured in SAP.	N/A N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Plann	ed N/A
OSM		0.00			LOCDM-C015 Gas Distribution																					
	Gas Distribution FG	G Dist Operate System	FGC Op Distr-G Reg Genl	Distribution Main or Service	Control Center Operations	Ex 3, Ch 11	No	N/A	N/A	180.2 222.0	41.7	23.2%	N/A	N/A N/A		N/A N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
																										This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to complete remediations to the
0844		C Diet Descretion																			Actual units were lower than imputed units due to reprioritization in support of higher risk or compliance					AOC (Abnormal Operating Conditions) backlog and preventative maintenance on PG&E's distribution mains in a reasonable amount of time
66 Expense (Sas Distribution FH	G Dist Preventive Maint	FHA Maint-Prev-G Mains	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	2,855.3 1,067.0	(1,788.2)	-62.6%	NO	NO Number of Mains		605 192	(413)	-68.3%	YES	Below variance threshold.	work.	On-Target	On-Target	On-Target	Proceeding as plann	while at the same time also performing ongoing AOC findings and repairs with available resources.
O&M 67 Expense (Gas Distribution FH	G Dist Preventive Maint	FHA Maint-Prev-G Mains	Loss of Containment on Gas Distribution Main or Service	LOCDM-C027 Preventive Maintenance Gas Mains	Ex 3, Ch 8	No	N/A	N/A	2,855.3 1,067.0	(1,788.2)	-62.6%	N/A	N/A N/A		605 192	(413)	-68.3%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0014		G Dist Preventive												non-unitized: This program has units because it encompasses different O&M activities. A co	s a variety of											
68 Expense (Gas Distribution FH	Maint Preventive	FHB Maint-Prev-G Reg St		SRM Total	Ex 3, Ch 8	No	On-going	Annual	5,161.5 4,394.4	(767.1)	-14.9%	NO	NO operations completed is captu	ured in SAP.	N/A N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Plann	wid N/A
O&M 69 Expense	Sas Distribution FH	G Dist Preventive Maint	FHB Maint-Prev-G Reg St	Large Overpressure Event Downstream of Gas M&C ta Facility	LRGOP-C018 Distribution Regulator Maintenance	Ex 3, Ch 8	No	N/A	N/A	5,161.5 4,394.4	(767.1)	-14.9%	N/A	N/A N/A		N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OSM		G Dist Preventive		Loss of Contnm at Gas	MCCPF-C011 Distribution					3,000,007																
70 Expense (Gas Distribution FH	Maint Maint	FHB Maint-Prev-G Reg St	Prossn Facil	Regulator Maintenance	Ex 3, Ch 8	No	N/A	N/A	5,161.5 4,394.4	(767.1)	-14.9%	N/A	N/A N/A		N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA

TABLE 2-3 2023 RSAR COOLE CAS DISTRIBUTION EXPENSE COMPARISON BY MA

A B	C1 C2	C3	C4	C5	C6	C7	D	E	F G 2023	Н	Spen	nding S	K L Spending Percentage	M	N	0	P	Q Unit Percent	R S Int Unit Variance 2023	T 2023	U1	U2 Forecast	U3	V		W
Line No Expense or	MWC MWC	lame MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	restimony	RAMP Roll- up Pro	oject Life	Program / Imputed roject Year Adopted	Actual	Difference Perc for 2023 (\$) Varian	cent t	Variance Variance Explanation Explanation	Unit Type	2023 Imputed Adopted Units			Variance for 2023 (%)	or Explanation Cost	Unit Variance	C	Schedule	Budget	Status		Completion Status Statement
Capital)						Reference	(Yes/No) (years)	Costs	Costs	(H-G) 2023 ((H-G)/	3 (%) F 'G*100)	Required Required (Y/N) (Y/N)		Ť		Units) (O-N)	((O-N)/N*100)	00) (Y/N) Explanation	Explanation			Budget (U, O, or T)			
O&M	G Dist Prew	intive	Maint-Prev-G Farm											non-unitized: This program has no measurable units because it encompasses a variety of different O&M activities. A count of the												
71 Expense Gas Distribution	FH Maint	FHC	Тар	SRM Total Large Overpressure Event	SRM Total	Ex 3, Ch 8	No O	n-going	Annual 422.3	170.3	(252.0) -59.	.7%	NO NO	operations completed is captured in SAP.	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as	Planned N/A	
O&M 72 Expense Gas Distribution	G Dist Prew		Maint-Prev-G Farm Tap	Downstream of Gas M&C Facility	LRGOP-C019 Farm Tap Maintenance	Ex 3, Ch 8	No	N/A	N/A 422.3	170.3	(252.0) -59.	.7%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	
O&M 73 Expense Gas Distribution	G Dist Prew	ntive FHC	Maint-Prev-G Farm	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C012 Farm Tap Maintenance	Ex 3, Ch 8	No.	N/A	N/A 422.3	170.3	(252.0) -59	.7%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	
O&M	G Dist Prew	intive																		Actual units were lower than imputed units due to a lower					period AOC mainte time v	program's work is ongoing and will continue in PG&E's 2023 GRC d. The purpose of this program is to complete remediations to the (Abnormal Operating Conditions) backlog and preventative enance on PG&E's distribution services in a reasonable amount of while at the same time also performing ongoing AOC findings and
74 Expense Gas Distribution	FH Maint		Maint-Prev-G Svcs		SRM Total	Ex 3, Ch 8	No O	n-going	Annual 4,808.3	4,348.0	(460.4) -9.6	6%	NO NO	# services repaired	2,606	1,656	(950)	-36.5%	YES Below variance threshold.	find rate than forecast.	On-Target	On-Target	On-Target	Proceeding as	pianned repair	rs with available resources.
O&M 75 Expense Gas Distribution	G Dist Prew		Maint-Prev-G Svcs	Distribution Main or Service	LOCDM-C023 Preventive Maintenance Gas Services	Ex 3, Ch 8	No	N/A	N/A 4,808.3	4,348.0	(460.4) -9.6	6%	N/A N/A	N/A	2,606	1,656	(950)	-36.5%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	
O&M 76 Expense Gas Distribution	G Dist Prew		Maint-Prev-G Main \	/iv SRM Total	SRM Total	Ex 3, Ch 8	No O	n-going	Annual 2,503.6	1,462.3	(1,041.3) -41.	.6%	NO NO	non-unitized: This program has no measurable units because it encompasses a variety of different O&M activities. A count of the operations completed is captured in SAP.	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as I	Planned N/A	
O&M	G Dist Prew	ntive		Loss of Containment on Gas	LOCDM-C026 Maintenance,	₽,																				
77 Expense Gas Distribution O&M 78 Expense Gas Distribution	FH Maint G Dist Prew FH Maint	intive	Maint-Prev-G Main \ Maint-Corr G Svc Valves	//v Distribution Main or Service	Preventative, Gas Valves	Ex 3, Ch 8	No O	N/A On-going	N/A 2,503.6 Annual 8,267.2	1,462.3	(1,041.3) -41. (6,362.4) -77.	.6%	NO YES	WA # of valves replaced	N/A 32,345	N/A 3,045	N/A (29,300)	N/A -90.6%	N/A Program expenses were below imputed regulatory values due YES reprioritization in support of higher risk or compliance work.	NA Actual units were lower than imputed units due to o reprinditization in support of higher risk or compliance work.	N/A On-Target	N/A On-Target	N/A On-Target	N/A Proceeding as	AOC mainte while	program's work is ongoing and will continue in PG&E's 2023 GRC d. The purpose of this program is to complete remediations to the (Abnormal Operating Conditions) backlog and preventative enance on PG&E's service valves in a reasonable amount of time at the same time also performing ongoing AOC findings and repairs vaniable resources.
O&M	G Dist Prew	ntive	Maint-Corr G Svc	Loss of Containment on Gas Customer Connected	CCEPQ-C011 Corrective Maintenance, Gas Service																					
79 Expense Gas Distribution	FH Maint	FHI	Valves	Equipment	Valves	Ex 3, Ch 8	No	N/A	N/A 8,267.2	1,904.8	(6,362.4) -77.	.0%	N/A N/A	N/A	32,345	3,045	(29,300)	-90.6%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	
O&M 80 Expense Gas Distribution	G Dist Prew	ntive FHJ	Gas Non-Recurring Projects	SRM Total Loss of Contrim at Gas	SRM Total	Ex 3, Ch 8	No O	n-going	Annual 3,884.0	1,379.3	(2,504.7) -64.	.5%	NO NO	non-unitized: This MAT has no measurable units because it includes one-time non-recurring maintenance projects.	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as	planned N/A	
O&M 81 Expense Gas Distribution	G Dist Prew		Gas Non-Recurring Projects	Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C028 Preventive Maintenance Gas Valves	Ex 3, Ch 8	No	N/A	N/A 3,884.0	1,379.3	(2,504.7) -64.	.5%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	
O&M 82 Expense Gas Distribution	G Dist Prew FH Maint	intive FHK	GD Corrosion AC Inspections	SRM Total	SRM Total	Ex 3, Ch 9	No O	n-going	Annual 145.3	200.5	55.2 38.	0%	NO NO	# of inspections completed	461	597	136	29.5%	YES Below variance threshold.	Actual units were higher than imputed units due to increased volume of quarterly Almospheric Corrosion inspections in 2023. Almospheric Corrosion Inspections are required for all Distribution Spans on a 3-year basis. Because of this, the number of spans inspected each year varies.	On-Target	On-Target	On-Target	Proceeding as I	Planned N/A	
O&M	G Dist Prew	entive	GD Corrosion AC	Loss of Containment on Gas	s LOCDM-C020 Atmospheric																					
83 Expense Gas Distribution O&M	FH Maint G Dist Prew	FHK	Inspections Atmospheric Corsn		Corrosion, Mains and Service		No	N/A	N/A 145.3	200.5	55.2 38.	0%	N/A N/A	N/A	461	597	136	29.5%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	
84 Expense Gas Distribution	FH Maint		Main Rep	SRM Total	SRM Total	Ex 3, Ch 9	No O	n-going	Annual 3,243.2	2,413.7	(829.5) -25.	.6%	NO NO	# spans repaired	145	143	(2)	-1.4%	NO Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as	Planned N/A	
O&M 85 Expense Gas Distribution	G Dist Prew		Atmospheric Corsn Main Ren	Loss of Containment on Gas	LOCDM-C020 Atmospheric Corrosion, Mains and Servic	cices Ex 3, Ch 9	No	N/A	N/A 2 242 2	2,413.7	(829.5) -25	6%	N/A N/A	N/Δ	145	142	(2)	-1.4%	N/A N/A	N/Δ	N/A	N/A	N/A	N/A	NVA	
									0,240.2	2,4 (0.1	(020.0)				140	140	(2)	1.470	Program expenses were below imputed regulatory values due completing a lower volume of service riser warp damage repair The pace of the service riser of service program was interface.	 materialized at a lower rate than expected, and 2) a records review was performed for existing 2017-2019 				101	period and A	program's work is ongoing and will continue in PG&E's 2023 GRC d. The purpose of this program is to repair service riser wrap damage throspheric Corrosion. It is too early to determine whether the
O&M 86 Expense Gas Distribution	G Dist Prew	ntive FHM	Atmospheric Corsn Serv Rep	SRM Total	SRM Total	Ex 3, Ch 9	No O	n-going	Annual 12,498.8	3,701.1	(8,797.8) -70.	.4%	NO YES	# services repaired	56,822	13,229	(43,593)	-76.7%	slowed in 2023 due to a number of mobilizations to sites that ha	d wrap damage locations to validate whether these locations still required mitigation.	On-Target	On-Target	On-Target	Proceeding as I	reduc	ed find rate for riser wrap units will result in completing less units lared to adopted for the rate case cycle.
O&M 87 Expense Gas Distribution	G Dist Prew	ntive FHM	Atmospheric Corsn Serv Rep	Loss of Containment on Gas Distribution Main or Senico	LOCDM-C020 Atmospheric Corrosion, Mains and Servic	cices Ex 3. Ch 9	No	N/A	N/A 12.498.8	3,701.1	(8,797.8) -70.	.4%	N/A N/A	N/A	56,822	13,229	(43.593)	-76.7%	N/A N/A	N/A	N/A	N/A	N/A	N/A	MIA	
O8M	G Dist Prew	ntive	Atmospheric Corsn Reg Stn Rprs	SRM Total	SRM Total	Ex 3, Ch 9				1,746.6			NO NO	# of rea stations militari	90,022	13,228	(40,080)		NO Below variance threshold.	Below variance threshold.		On-Target		Proceeding as I	Diagnod Mile	
				Lancard Contains at Con-		LA 5, 0119	IND O	n-going	Annual 1,050.6	1,140.0	696.0 66.	£ /0		# of reg stations mitigated	UU	10	(a)	-15.0%	вому увивное изволяти.	Show Validated till delibid.	Orrialget	Oirlaiget	Orranget	Procedulity as I	AIII DU INA	
O&M 89 Expense Gas Distribution	G Dist Prew FH Maint	FHN	Reg Stn Rprs	Measrm & Cntrl / Cmprsn & Prcssn Facil	Corrosion Control Program	Ex 3, Ch 9	No	N/A	N/A 1,050.6	1,746.6	696.0 66.	2%	N/A N/A	N/A	60	51	(9)	-15.0%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	
O&M 90 Expense Gas Distribution	G Dist Prew	intive FHO	PM SCADA	SRM Total	SRM Total	Ex 3, Ch 8	No O	n-going	Annual 1,501.5	1,132.4	(369.1) -24.	.6%	NO NO	non-unitized: This program has no measurable units because it encompasses a variety of different O&M activities. A count of the operations completed is captured in SAP.	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as	Planned N/A	
O&M 91 Expense Gas Distribution	G Dist Prew	ntive FHO	PM SCADA	Insufficient Capacity to Mee	t CPCTY-C006 Distribution SCADA Maintenance	Ex 3, Ch 8	No.	N/A	N/A 1,501.5	1,132.4	(369.1) -24.	6%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	AVA	
O&M 92 Expense Gas Distribution	G Dist Prew	ntive	PM SCADA	Large Overpressure Event				N/A	N/A 1,501.5	1,132.4		.6%	N/A N/A	N/A	N/A	N/A	N/A	N/A	NA NA	N/A	N/A	N/A	N/A	N/A	N/A	
O&M	G Dist Prew	intive		Loss of Contnm at Gas Measrm & Cntrl / Cmprsn &	MCCPF-C003 Distribution																					
93 Expense Gas Distribution	FH Maint	FHO	PM SCADA	Prcssn Facil	SCADA Maintenance	Ex 3, Ch 8	No	N/A	N/A 1,501.5	1,132.4	(369.1) -24.	.6%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	
O&M 94 Expense Gas Distribution	G Dist Prew	FHP	CM SCADA	SRM Total	SRM Total	Ex 3, Ch 8	No O	n-going	Annual 776.8	575.8	(201.0) -25.	.9%	NO NO	non-unitized: This program has no measurable units because it encompasses a variety of different O&M activities. A count of the operations completed is captured in SAP.	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as I	Planned N/A	
O&M 95 Expense Gas Distribution	G Dist Prew	ntive FHP	CM SCADA	Insufficient Capacity to Mee Customer Demand	t CPCTY-C006 Distribution SCADA Maintenance	Ex 3, Ch 8		N/A	N/A 776.8	575.8	(201.0) -25.	.9%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	•		•	•	•	•			1		. ,		•	•	•				· · · · · · · · · · · · · · · · · · ·	•		•				

TABLE 2-3 2023 RSAR

A B	C1 C2	C3	C4	C5	C6	C7	D	E	F G	Н	l J Spen	ding Spi	K L pending Percentage	M	N	0	P	Q	R S	T	U1	U2 Faranat		V	W
Type (O&M Expense or Functional Area	MWC MWC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name		RAMP Roll- up Proj	gram / ect Life	gram / Imputed ct Year Adopted Costs	2023 D Actual fo Costs	Spen Difference Perc or 2023 (\$) Variance	ce for Expl	ariance Variance planation Explanation		2023 Impute Adopted Unit	2023 Actual Units	2023 (# of	Unit Percent Variance for 2023 (%)	r Explanation Cost	2023 Unit Variance		Forecast		Status	Completion Status Statement
Capital)					Solido Name	Reference	(Yes/No) (y	ears)	Costs	Costs	(H-G) 2023 ((H-G)/0	(%) Re G*100) (equired Required (Y/N) (Y/N)		Adopted Office	oco	Units) (O-N)	((O-N)/N*100)	D) (Y/N) Explanation	Explanation	Scope (U, O, or T)	Schedule (U, O, or T	Budge (U, O, or	T)	
O&M 96 Expense Gas Distribution	G Dist Preventive FH Maint	run.	CM SCADA	Large Overpressure Event Downstream of Gas M&C Facility	LRGOP-C017 Distribution SCADA Maintenance	Ex 3, Ch 8	No	N/A I	WA 776.8	575.8	(201.0) -25.		N/A N/A	AVA	N/A	N/A	N/A	N/A	N/A N/A	AVA	N/A	N/A	N/A	N/A	
O&M		rnr		Loss of Control at Gas			No	N/A I	WA 776.8	5/5.8	(201.0) -25.9	976	N/A N/A	NA .	N/A	N/A	N/A	N/A	NA IWA	IVA	N/A	NA	N/A	N/A	N/A
97 Expense Gas Distribution	G Dist Preventive FH Maint	FHP	CM SCADA	Measrm & Cntrl / Cmprsn & Prcssn Facil	SCADA Maintenance	Ex 3, Ch 8	No	N/A I	VA 776.8	575.8	(201.0) -25.9	9%	N/A N/A	NA	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
														non-unitized: This program has no measurable units because it encompasses a variety of different expense-related activities that are											
	0.574.5		00.0											associated with the Overpressure Protection Program, like sulfur filter installations and minor sense line work on low pressure stations in addition to conducting studies											
98 Expense Gas Distribution	G Dist Preventive FH Maint	FHQ	GD Over Pressure Protectn Exp.	SRM Total	SRM Total	Ex 3, Ch 6	No Or	-going A	nual 0.0	1,056.4	1,056.4 100.	0%	NO NO	emergency response to an overpressure event, and other miscellaneous activities.	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	t Over	Proceeding as F	anned N/A
O&M 99 Expense Gas Distribution	G Dist Preventive FH Maint	FHO	GD Over Pressure Protectn Exp.	Large Overpressure Event Downstream of Gas M&C Facility	LRGOP-M003 GD Overpressure Protection	Ex 3, Ch 6	No	N/A I	WA 0.0	1,056.4	1,056.4 100.	0%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/Δ
33				,,			110		0.0	1,000.4	1,000.4	070	NA IVA	non-unitized: This MAT has no measurable	147	167	14/1	1671	W.		1471	1673	147	1671	
O&M 100 Expense Gas Distribution	G Dist Preventive FH Maint	FHR	Distribution Pipeline Markers	SRM Total	SRM Total	Ex 3, Ch 8	No Or	⊩going A	inual 1,852.6	16.0	(1,836.6) -99.	1%	NO NO	units because it is used for multiple work activities (e.g. distribution patrol and pipeline marker maintenance).	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	t On-Targ	et Proceeding as I	lanned N/A
O&M 101 Expense Gas Distribution	G Dist Preventive FH Maint	FHR	Distribution Pipeline Markers	Loss of Containment on Gas Distribution Main or Service	LOCDM-C017 Locate and Mark - Distribution	Ex 3, Ch 8	No	N/A	WA 1.852.6	16.0	(1.836.6) -99.	1%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
														non-unitized: This MAT has no measurable											
O&M 102 Expense Gas Distribution	G Dist Preventive FH Maint	FHS	GD One-Time Non- Recur Exp Pjts	SRM Total	SRM Total	N/A	No Or	-going A	inual 0.0	1,977.5	1,977.5 100.	0%	NO NO	units because it includes one-time non-recurring maintenance projects.	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	t Over	Proceeding as I	lanned N/A
														non-unitized: This MAT has no measurable units because it is used to record other											
O&M 103 Expense Gas Distribution	G Dist Preventive FH Maint	FH#	Not assigned	SRM Total	SRM Total	Ex 3, Ch 8	No Or	raoina A	nual 1.212.3	759.9	(452.4) -37.3	3%	NO NO	support costs for the gas distribution system or can reflect standard cost variance.	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	t On-Targ	et Proceeding as F	lanned N/A
O&M	G Dist Preventive			Large Overpressure Event Downstream of Gas M&C	LRGOP-C018 Distribution																				
104 Expense Gas Distribution	FH Maint	FH#	Not assigned	Facility	Regulator Maintenance	Ex 3, Ch 8	No	N/A I	WA 1,212.3	759.9	(452.4) -37.3	3%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
														non-unitized: This program has no measurable units because it encompasses a variety of											
O&M 105 Expense Gas Distribution	G Dist Corrective FI Maint	FIB	Maint-Corr-G Reg Genl	SRM Total	SRM Total	Ex 3, Ch 8	No Or	r-going Ar	nual 2,301.1	1,527.6	(773.5) -33.0	6%	NO NO	different O&M activities. A count of the operations completed is captured in SAP.	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	t On-Targ	et Proceeding as F	lanned N/A
O&M	G Dist Corrective		Maint-Corr-G Reg	Large Overpressure Event Downstream of Gas M&C	LRGOP-C018 Distribution																				
106 Expense Gas Distribution	FI Maint	FIB		Facility Loss of Contnm at Gas	Regulator Maintenance	Ex 3, Ch 8	No	N/A I	VA 2,301.1	1,527.6	(773.5) -33.0	6%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M 107 Expense Gas Distribution	G Dist Corrective FI Maint	FIB	Maint-Corr-G Reg Genl	Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C011 Distribution Regulator Maintenance	Ex 3, Ch 8	No	N/A I	WA 2,301.1	1,527.6	(773.5) -33.0	6%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
														non-unitized: This program has no measurable											
O&M	G Dist Corrective		Maint-Corr-G Farm											units because it encompasses a variety of different O&M activities. A count of the											
108 Expense Gas Distribution	FI Maint	FIC		SRM Total Large Overpressure Event	SRM Total	Ex 3, Ch 8	No Or	-going A	nual 995.0	139.9	(855.1) -85.9	9%	NO NO	operations completed is captured in SAP.	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	t On-Targ	et Proceeding as F	anned N/A
109 Expense Gas Distribution	G Dist Corrective FI Maint	FIC	Tap	Downstream of Gas M&C Facility	Maintenance	Ex 3, Ch 8	No	N/A I	WA 995.0	139.9	(855.1) -85.9	9%	N/A N/A	NA	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M 110 Expense Gas Distribution	G Dist Corrective FI Maint	FIC	Maint-Corr-G Farm Tap	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C012 Farm Tap Maintenance	Ex 3, Ch 8	No	N/A I	VA 995.0	139.9	(855.1) -85.1	9%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
											,														
0.874	G Dist Corrective													non-unitized: This program has no measurable units because it encompasses a variety of different O&M activities. A count of the											
111 Expense Gas Distribution	FI Maint	FIF	Maint-Corr-G Main Vh	SRM Total	SRM Total	Ex 3, Ch 8	No Or	-going A	nual 395.2	1,026.1	630.9 159.	6%	NO NO	operations completed is captured in SAP.	N/A	N/A	N/A	N/A	NO Below variance threshold.	Not-Unitized.	On-Target	On-Target	t On-Targ	et Proceeding as F	anned N/A
O&M 112 Expense Gas Distribution	G Dist Corrective FI Maint	FIF	Maint-Corr-G Main VM	Loss of Containment on Gas / Distribution Main or Service	s LOCDM-C024 Corrective Maintenance, Gas, Main Va	alve Ex 3, Ch 8	No	N/A I	VA 395.2	1,026.1	630.9 159.	6%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M	G Dist Corrective	FIG/																		Actual units were lower than imputed units due to a lower					This program's demand driven work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to
113 Expense Gas Distribution	FI Maint	LWG (a)	Maint-Corr-G Main Lk		SRM Total	Ex 3, Ch 10	No Or	-going A	nual 35,096.0	35,103.6	7.6 0.02	2%	NO NO	# of main leaks repaired	3,828	2,592	(1,236)	-32.3%	YES Below variance threshold.	leak find rate.	On-Target	On-Target	t On-Targ	et Proceeding as p	anned mitigate leaks.
O&M 114 Expense Gas Distribution	G Dist Corrective FI Maint	LWG (a)	Maint-Corr-G Main Lk	Loss of Containment on Gas Distribution Main or Service	s LOCDM-C014 Distribution L Management	Ex 3, Ch 10	No Or	-going A	nual 35,096.0	35,103.6	7.6 0.02	2%	N/A N/A	NA	3,828	2,592	(1,236)	-32.3%	NA NA	N/A	N/A	N/A	N/A	N/A	N/A
O&M 115 Expense Gas Distribution	G Dist Corrective FI Maint	FIH	Maint-Corr_G_Svc Leak_AG	SRM Total Loss of Containment on Gas	SRM Total	Ex 3, Ch 10	No Or	r-going A	nual 4,097.6	2,697.9	(1,399.7) -34.:	2%	NO NO	# service leak repairs, above ground	7,838	2,044	(5,794)	-73.9%	YES Below variance threshold.	Actual units were lower than imputed units due to a lower leak find rate than forecast.	On-Target	On-Target	t On-Targ	et Proceeding as p	This program's demand driven work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to mitigate leaks.
O&M 116 Expense Gas Distribution	G Dist Corrective FI Maint	FIH	Maint-Corr_G_Svc Leak_AG	Customer Connected Equipment	CCEPQ-C004 CCE Leak Management	Ex 3, Ch 10	No	N/A I	VA 4,097.6	2,697.9	(1,399.7) -34.:	2%	N/A N/A	N/A	7,838	2,044	(5,794)	-73.9%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M	G Dist Corrective		Maint-Corr_G_Svc	Loss of Containment on Gas	s LOCDM-C014 Distribution L	Leak																			
117 Expense Gas Distribution	FI Maint	FIH	Leak_AG	Distribution Main or Service	Management	Ex 3, Ch 10	No	N/A I	VA 4,097.6	2,697.9	(1,399.7) -34.3	2%	N/A N/A	N/A	7,838	2,044	(5,794)	-73.9%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
																				Actual units were lower than imputed units due to: 1) the 2023 GRC forecast included replacement of Remote Monitoring Units (RMU) modems on all rectifiers which					
																				was completed in 2022. The 2023 units completed consisted of "traditional" corrosion correctives (e.g.					
O&M 118 Expense Gas Distribution	G Dist Corrective	FII	Maint-Corr-G Cath	SRM Total	SRM Total	Ex 3. Ch 9	N-			7.257.0	4.447.0	200	NO. NO.	# of correction tops ele	5 075	4 204	(4.0**)	7,000	VES Below variance threshold	installing anodes) only; and 2) troubleshoots for programmatic work (which generate correctives) originally slated for 2023 were delayed to 2024.	On T	On T	0- T-	at Proceeding 1	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to perform corrective repairs lanned needed to maintain a fully functioning Cathodic Protection system.
118 Expense Gas Distribution O&M	C Di-t C	FII	Maint Corr C C-#			Ex 3, GR 9	NO Or	r-going Ar	nual 6,233.2	7,351.0	1,117.9 17.9	970	NU NU	# of corrosion tags cleared	5,375	1,364	(4,011)	-74.6%	YES Below variance threshold.	originally stated for 2025 we're delayed to 2024.	On-rarget	On-Target	t On-Targ	rroceeding as h	needed to maintain a ruly functioning Cathodic Protection system.
119 Expense Gas Distribution	G Dist Corrective FI Maint	FII	Maint-Corr-G Cath Prot	Distribution Main or Service	s LOCDM-C018 Distribution Corrosion Control Program	Ex 3, Ch 9	No	N/A I	WA 6,233.2	7,351.0	1,117.9 17.9	9%	N/A N/A	NA	5,375	1,364	(4,011)	-74.6%	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
O&M 120 Expense Gas Distribution	G Dist Corrective	EII	Maint-Corr-G Cath	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C018 Cathodic Protection	Ex 3. Ch 9	No.	N/A	MV 6 233 C	7,351.0	1 117 9 17 9	204	N/A N/C	N/Δ	5,375	1,364	(4 011)	-74.6%	N/A N/A	N/Δ	N/A	AI/A	AUC	B.174	N/A
120 Expense Gas Distribution	1 1 Ividii t	FII	p. 10t	1 1000111 aut	, rotection	LA J, GITS	INU	IVA .	en 6,233.2	1,301.0	1,117.9 17.5	7/0	IVA N/A	i.v.	5,3/5	1,364	(4,011)	-74.0%	IVO IVO	per	ΝA	N/A	N/A	N/A	INO

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2023 GRC CYCLE GAS DISTRIBUTION EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

A	B C1	C2	C3 C4	C5	C6	C7	D	E	F	G H		J Spending	K Spending	L Percentage	М	N O	P Q Difference for Unit Perce	ent Unit Varian	S T nce 2023 2023		U2 U3	V	W
Line No Expense or	Functional Area MW	C MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	Difference for 2023 (\$)	Percent Variance for	Variance Explanation	Variance	Unit Type	2023 Imputed 2023 Actua Adopted Units Units	2023 (# of Variance	for Explanatio	on Cost Unit	Scope Sc		Status	Completion Status Statement
Capital)						Reference	(Yes/No)	(years)	·	Costs	(H-G)	((H-G)/G*100)	(Y/N)	(Y/N)			Units) 2023 (% (O-N) ((O-N)/N*1			(U, O, or T) (U,	O, or T) (U, O, or	T)	
O&M 121 Expense	Gas Distribution FI	G Dist Corrective Maint	Maint-Corr G Main D	ig- SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	995.7 1,278.9	283.2	28.4%	NO	NO #	♯ of main dig-ins repaired	298 158	(140) -47.0%	YES	Actual units were lower than imputed units due to I Below variance threshold. third-party gas main dig as materializing.	On-Target On	n-Target On-Targ	This p 2023 get Proceeding as planned remed	rogram's demand driven work is ongoing and will continue in PG&E's GRC period. The purpose of this program is a continuing effort to liate dig-in main leaks and other third party damage.
O&M 122 Expense	Gas Distribution FI	G Dist Corrective Maint	Maint-Corr G Main D	ig-Loss of Containment on Ga Distribution Main or Service	Gas LOCDM-C014 Distribution Leak ce Management	Ex 3, Ch 10	No	N/A	N/A	995.7 1.278.9	283.2	28.4%	N/A	N/A	WA	298 158	(140) -47.0%	. N/A	N/A N/A	N/A	N/A N/A	N/A N/A	
					3	.,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							(***)						rogram's demand driven work is ongoing and will continue in PG&E's
O&M 123 Expense	Gas Distribution FI	G Dist Corrective Maint	Maint-Corr G Svc Dig FIK in	SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	1,595.9 2,085.2	489.3	30.7%	NO	NO #	of service dig-ins repaired	1,617 1,221	(396) -24.5%	YES	Actual units were lower than imputed units due to I below variance threshold. third-party gas service dig ins materializing.	On-Target On	n-Target On-Targ	2023	GRC period. The purpose of this program is a continuing effort to fiate dig-in service leaks and other third party damage.
O&M 124 Expense	Gas Distribution FI	G Dist Corrective Maint	Maint-Corr G Svc Dig	g- Loss of Containment on Ga Distribution Main or Service	Gas LOCDM-C014 Distribution Leak ce Management	Ex 3, Ch 10	No	N/A	N/A	1,595.9 2,085.2	489.3	30.7%	N/A	N/A	WA	1,617 1,221	(396) -24.5%	N/A	N/A N/A	N/A	N/A N/A	N/A N/A	
															non-unitized: This MAT has no measurable units because it is used only in the event of major event (i.e. wildfire, flood, earthquake)	а							
O&M 125 Expense	Gas Distribution FI	G Dist Corrective Maint	Major Event- FIM Distribution Gas	SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	490.2 186.5	(303.7)	-62.0%	NO	a	and does not include a standard unit of neasure.	N/A N/A	N/A N/A	NO	Below variance threshold. Not-Unitized.	On-Target Or	n-Target On-Targ	get Proceeding as Planned N/A	
O&M 126 Expense	Gas Distribution FI	G Dist Corrective Maint	Major Event- FIM Distribution Gas	Loss of Containment on Ga Customer Connected Equipment	Gas CCEPQ-C009 Major Event - Distribution Gas	Ex 3, Ch 10	No	N/A	N/A	490.2 186.5	(303.7)	-62.0%	N/A	N/A	WA	N/A N/A	N/A N/A	N/A	N/A N/A	N/A	N/A N/A	N/A N/A	
O&M		G Dist Corrective	Major Event-	Insufficient Capacity to Me	eet CPCTY-C007 Operate																		
127 Expense	Gas Distribution FI	Maint G Dist Corrective	FIM Distribution Gas Major Event-	Customer Demand	Transmission Regulator Station eet CPCTY-C008 Major Event -	Ex 3, Ch 10	No	N/A	N/A	490.2 186.5	(303.7)	-62.0%	N/A	N/A	WA .	N/A N/A	N/A N/A	N/A	NA NA	N/A	N/A N/A	N/A N/A	
128 Expense	Gas Distribution FI	Maint	FIM Distribution Gas	Customer Demand	Distribution Gas	Ex 3, Ch 10	No	N/A	N/A	490.2 186.5	(303.7)	-62.0%	N/A	N/A	WA	N/A N/A	N/A N/A	N/A	N/A N/A	N/A	N/A N/A	N/A N/A	
O&M 129 Expense	Gas Distribution FI	G Dist Corrective Maint	Major Event- FIM Distribution Gas	Distribution Main or Service		Ex 3, Ch 10	No	N/A	N/A	490.2 186.5	(303.7)	-62.0%	N/A	N/A	WA .	N/A N/A	N/A N/A	N/A	NA NA	N/A	N/A N/A	N/A N/A	
O&M 130 Expense	Gas Distribution FI	G Dist Corrective Maint	Major Event- FIM Distribution Gas	Large Overpressure Event Downstream of Gas M&C Facility	t LRGOP-C013 Major Event - Distribution Gas	Ex 3, Ch 10	No	N/A	N/A	490.2 186.5	(303.7)	-62.0%	N/A	NA I	WA	N/A N/A	NA NA	N/A	N/A N/A	N/A	NA NA	N/A N/A	
O&M		G Dist Corrective	Major Event- FIM Distribution Gas	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn	& MCCPF-C013 Major Event -																		
131 Expense	Gas Distribution FI	Maint	FIM Distribution Gas	Prcssn Facil	Distribution Gas	Ex 3, Ch 10	No	N/A	N/A	490.2 186.5	(303.7)	-62.0%	N/A	N/A	VA .	N/A N/A	N/A N/A	N/A	NA NA	N/A	N/A N/A	N/A N/A	
ORM		G Dist Corrective																	Actual units were higher than imputed units due to: more encroachmerts being identified in the field th anticipated (higher fird rate), and 2) execution of a	in .			
132 Expense	Gas Distribution FI	Maint	FIO Gas Overbuild - G	SRM Total Loss of Containment on Ga	SRM Total	Ex 3, Ch 4	No	On-going	Annual	853.9 3,066.6	2,212.7	259.1%	NO	NO r	number of services repaired	76 171	95 125.0%	YES	Below variance threshold. Below variance threshold.	Target	Target Target	t Proceeding as Planned N/A	
O&M 133 Expense	Gas Distribution FI	G Dist Corrective Maint	FIO Gas Overbuild - G	Customer Connected Equipment	CCEPQ-C002 Encroachment Program	Ex 3, Ch 4	Yes	N/A	N/A	213.5 766.7	553.2	259.1%	N/A	N/A	WA	19 43	24 125.0%	N/A	NA NA	N/A	N/A N/A	N/A N/A	
O&M 134 Expense	Gas Distribution FI	G Dist Corrective Maint	FIO Gas Overbuild - G	Loss of Containment on Ga	Gas LOCDM-C009 Encroachment	Ex 3, Ch 4	Yes	N/A	N/A	640.4 2,300.0	1,659.5	259.1%	N/A	NA P	ΔVΔ	57 128	71 125.0%	, N/A	N/A N/A	N/A	N/A N/A	N/A N/A	
	ous bistribution 11				ac Frogram	Ex 0, 0114	163	IVA	IVA	2,300.0	1,039.3	239.170	INA	1970	•	37 120	71 125.076	, INA			140	This p	rogram's demand driven work is ongoing and will continue in PG&E's
O&M 135 Expense	Gas Distribution FI	G Dist Corrective Maint	FIP/ LWH (a) Maint-Corr_G_Svc Leak_BG	SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	31,649.4 27,893.8	(3,755.6)	-11.9%	NO	NO r	number of service leak repairs, below groun	d 7,484 4,509	(2,975) -39.8%	YES	Actual units were lower than imputed units due to a leak find rate.	On-Target Or	n-Target On-Targ		GRC period. The purpose of this program is a continuing effort to te leaks.
O&M 136 Expense	Gas Distribution FI	G Dist Corrective Maint	FIP/ Maint-Corr_G_Svc LWH (a) Leak_BG	Loss of Containment on Ga Distribution Main or Service	Gas LOCDM-C014 Distribution Leak ce Management	k Ex 3, Ch 10	No	On-going	Annual	31,649.4 27,893.8	(3,755.6)	-11.9%	N/A	N/A	WA	7,484 4,509	(2,975) -39.8%		N/A N/A	N/A	N/A N/A	N/A N/A	
O&M		G Dist Corrective	Atmospheric Corrosio	on															Actual units were higher than imputed units due to completing work in 2023 previously delayed by CC	VID-			
137 Expense	Gas Distribution FI	Maint	FIQ Monitorg	SRM Total Loss of Containment on Ga	SRM Total Gas	Ex 3, Ch 10	No	On-going	Annual	1,356.1 457.6	(898.5)	-66.3%	NO	NO r	number of locations inspected	15,524 33,508	17,984 115.8%	YES	Below variance threshold. 19.	On-Target Or	n-Target On-Targ	get Proceeding as Planned N/A	
138 Expense	Gas Distribution FI	G Dist Corrective Maint	Atmospheric Corrosion FIQ Monitorg	on Customer Connected Equipment	CCEPQ-C017 Atmospheric Corrosion, Metersets	Ex 3, Ch 10	Yes	N/A	N/A	678.1 457.6	(220.5)	-32.5%	N/A	N/A	WA	7,762 16,754	8,992 115.8%	N/A	NA NA	N/A	N/A N/A	N/A N/A	
O&M 139 Expense	Gas Distribution FI	G Dist Corrective Maint	Atmospheric Corrosio	on Loss of Containment on Ga Distribution Main or Service	Gas LOCDM-C020 Atmospheric ce Corrosion, Mains and Services	Ex 3, Ch 10	Yes	N/A	N/A	678.1 915.2	237.2	35.0%	N/A	N/A	WA	7,762 16,754	8,992 115.8%	N/A	NA NA	N/A	N/A N/A	N/A N/A	
O&M		G Dist Corrective	Tee-Cap Replaceme	nt SRM Total	SRM Total													NO.					
140 Expense	Gas Distribution FI	Maint G Dist Corrective	FIR Program	nt Loss of Containment on Ga		Ex 3, Ch 4	No	On-going	Annual	2,209.0 2,040.5	(168.5)	-7.6%	NO	NO F	number of tee-caps replaced	1,165 1,196	31 2.7%	NO	Below variance threshold. Below variance threshold.	On-Target Or	n-larget On-larg	get Proceeding as Planned N/A	
141 Expense	Gas Distribution FI	Maint	FIR Program	Distribution Main or Service	ce Replacement Program	Ex 3, Ch 4	No	N/A	N/A	2,209.0 2,040.5	(168.5)	-7.6%	N/A	N/A N	WA .	1,165 1,196	31 2.7%	N/A	N/A N/A	N/A	N/A N/A		
O&M		G Dist Corrective	Leak Survey Meter																Actual units were lower than imputed units due to reprioritization in support of higher risk or compliar	ce		period hazare	rogram's work is ongoing and will continue in PG&E's 2023 GRC I. The purpose of this program is the scheduled repair of non- dous leaks at the meter set that have been identified by the Leak
142 Expense	Gas Distribution FI	Maint G Dist Corrective	FIS Repair	SRM Total Loss of Containment on Ga	SRM Total Gas CCEPQ-C004 CCE Leak	Ex 3, Ch 10	No	On-going	Annual	9,658.5 8,215.6	(1,442.8)	-14.9%	NO	NO r	number of meters repaired	80,000 56,458	(23,542) -29.4%	YES	Below variance threshold. work.	On-Target Or	n-Target On-Targ	get Proceeding as Planned Surve	y Inspection Program.
143 Expense	Gas Distribution FI	Maint Corrective	FIS Repair	Equipment Equipment	Management CCE Leak	Ex 3, Ch 10	No	N/A	N/A	9,658.5 8,215.6	(1,442.8)	-14.9%	N/A	N/A	WA	80,000 56,458	(23,542) -29.4%	N/A	NA NA	N/A	N/A N/A	N/A N/A	
		0.5:40													non-unitized: This MAT has no measurable units because it is used to record other								
144 Expense	Gas Distribution FI	G Dist Corrective Maint	FI# Not assigned	SRM Total Loss of Containment on Ga	SRM Total	Ex 3, Ch 10	No	On-going	Annual	4,149.0 1,726.7	(2,422.3)	-58.4%	NO		support costs for corrective maintenance su as leak repair.	N/A N/A	N/A N/A	NO	Below variance threshold. Not-Unitized.	On-Target On	n-Target On-Targ	get Proceeding as Planned N/A	
O&M 145 Expense	Gas Distribution FI	G Dist Corrective Maint	FI# Not assigned	Customer Connected Equipment	CCEPQ-C004 CCE Leak Management	Ex 3, Ch 10	No	N/A	N/A	4,149.0 1,726.7	(2,422.3)	-58.4%	N/A	N/A	WA	N/A N/A	N/A N/A	N/A	NA NA	N/A	N/A N/A	N/A N/A	
O&M 146 Expense	Gas Distribution FI	G Dist Corrective	FI# Not assigned	Loss of Containment on Ga Distribution Main or Service	Gas LOCDM-C014 Distribution Leak	Ex 3, Ch 10	Mo	N/A	N/A	4,149.0 1,726.7	(2,422.3)	-58.4%	N/A	N/A	WA.	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	
140 Expense	Odd Distribution 11	IVILIIK	i iii iiot daaagiicd	Distribution wan or our vo	Wanagemen	EX 0, OII 10	140	IVA	IVA	4,145.0 1,720.7	(2,422.3)	-30.476	INA		non-unitized: This MAT has no measurable	NO NO	IVA IVA	INA.		NA.	IVA IVA	IVO IVO	
														<u>.</u>	units because it is primarily used by Gas Distribution mappers for performing work th	at							
															s not billable to orders, including: map correction notifications from the Corrective Action Program (CAP), map delineation								
														r	equests, request for work notifications RWs), operating diagrams, Gas Distributio Geographic Information System (GD-GIS)	n							
O&M 147 Expense	Gas Distribution GF	Gas Trans & Dist Sys Mapping	Mapping Support- GFO Distribution	SRM Total	SRM Total	Ex 3, Ch 13	No	On-going	Annual	4,307.4 4,573.2	265.8	6.2%	NO		corrections, data requests, and mapping ta on orders that are financially closed.	iks N/A N/A	N/A N/A	NO	Below variance threshold. Not-Unitized.	On-Target Or	n-Target On-Targ	get Proceeding as Planned N/A	
															non-unitized: This MAT has no measurable								
														G F	units because it is primarily intended for Ga data enhancements in GD-GIS, Palantir Foundry implementation for Gas to enable								
														d	data analysis, discrepancy identification and correction across core systems of record (i GD-GIS and SAP), and Gas data maturity								
O&M 148 Expense	Gas Distribution GF	Gas Trans & Dist Sys Mapping	GT&D Data GFQ Management	SRM Total	SRM Total	N/A	No	On-going	Annual	0.0 673.7	673.7	100.0%	NO	v	work in alignment with company data management standards.	N/A N/A	N/A N/A	NO	Below variance threshold. Not-Unitized.	On-Target Or	n-Target Over	Proceeding as Planned N/A	
O&M	Gas Distribution GG	Gas Trans & Dist Sys	Gas System	SRM Total	SRM Total	5.0.0				6.923.6 4.935.1		-28.7%			non-unitized: This MAT has no measurable units because it is used to record labor cos		N/A N/A		Below variance threshold. Not-Unitized.	0-7		Daniel Da	
149 Expense O&M		Gas Trans & Dist Sys	GGA Planning_GSO Gas System GGA Planning GSO		eet CPCTY-C003 Gas System	Ex 3, Ch 11 Ex 3, Ch 11	No	On-going	Annual	6,923.6 4,935.1 6,923.6 4,935.1			NO N/A	NO L	JULY DECRUSE IT IS USED TO RECORD LABOR COS			NO N/A				get Proceeding as Planned N/A	
150 Expense	Odd Distribution GG	G Modeling	GGA Manning_GSO	customer Demand	Planning	EX 3, Un 11	No	N/A	N/A	o,923.6 4,935.1	(1,988.6)	-28.7%	N/A	N/A N	wa .	N/A N/A	N/A N/A	N/A	pwA N/A	N/A	N/A N/A	N/A N/A	

TABLE 2-3 2023 RSAR COCLE GAS DISTRIBUTION EXPENSE COMPARISON BY MA

2023 GRC CYCLE GAS DISTRIBUTION EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

Part																						•				_	_			
The color The	Type	В	C1	C2	C3 C4	C5	C6	C7	D E	. F	2023	Н		Spending	Spending		M	N	0	P Difference fo	Q Unit Percent	Unit Variance	S Ce 2023	T 2023	U1			3	V	W
Part	Line No Expense or	r	Area MWC	MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	Testimony	up Project	Life Project Vo	/ Imputed ar Adopted	Actual	for 2023 (\$)	Variance for 2023 (%)	Explanation Required	Explanation Required	Unit Type		2023 Actual Units	2023 (# of Units) (O-N)	Variance for 2023 (%)	Explanation Required	Cost Variance	Unit Variance	Scope (U, O, or T	Schedule	e Bud	lget	tatus	Completion Status Statement
Part	O&M 151 Expense	Gas Distributio	on GG	Gas Trans & Dist Sys Modeling	GG# Not assigned	SRM Total			No On-goi	ng Annual	2,522.9	0.0	(2,522.9)	-100.0%	NO	NO		N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	t On-Targe	et On-Ti	arget Proceed	ng as Planned	N/A
No. Column Colu	O&M 152 Expense	Gas Distributio			GG# Not assigned	Insufficient Capacity to Meet Customer Demand	Portfolio Management and		No N/A	N/A	2,522.9	0.0	(2,522.9)	-100.0%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	'A	N/A	N/A
Part	O&M			Manage Energy													units because it is used to record costs for CNG station maintenance for various types of													
No. Column Colu	153 Expense	Gas Distributio			GMC GD LNG/CNG Station				No On-goi	ng Annual	4,592.7	3,453.7	(1,139.0)	-24.8%	NO NO	NO	assets which are not comparable.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	t On-Targe	et On-Ti	arget Proceed	ng as Planned	NA .
Part	154 Expense	Gas Distributio	on GM	Efficiency-NonBA	GMC GD LNG/CNG Station	Station Equipment	LNG/CNG Station O&M	Ex 3, Ch 6	No N/A	N/A	4,592.7	3,453.7	(1,139.0)	-24.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N	'A	N/A	N/A
Part	O&M 155 Expense	Gas Distributio	on HY	Change/Maint Used Gas Meters	G Meter Atmospheric	SRM Total	SRM Total	Ex 3, Ch 8	No On-goi	ng Annual	920.5	788.4	(132.1)	-14.3%	NO	NO	# of meters repaired	16,077	9,143	(6,934)	-43.1%	YES	Below variance threshold.	reduction in incoming workload due to fewer identified	On-Target	t On-Targe	et On-Ti	arget Proceed	ng as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to remediate Atmospheric Corrosion on customer gas meters and regulators as identified through the Atmospheric Corrosion Inspection Program.
Part	O&M				G Meter Atmospheric		CCEPQ-C008 Meter Set										·													
No. of the control	156 Expense	Gas Distributio	on HY	Gas Meters	HYI Corrosion	Equipment	Remediation	Ex 3, Ch 8	No N/A	N/A	920.5	788.4	(132.1)	-14.3%	N/A	N/A	N/A non-unitized: This MAT has no measurable	16,077	0	(16,077)	-100.0%	N/A	N/A	N/A	N/A	N/A	N	'A	N/A	N/A
March Marc	O&M 157 Expense	Gas Distributio	on HY	Change/Maint Used Gas Meters	HY# Not assigned	SRM Total	SRM Total	Ex 3, Ch 8	No On-goi	ng Annual	0.0	5.6	5.6	100.0%	NO	NO	units because it reflects standard cost	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	t On-Targe	et Ov	ver Proceedi	ng as Planned	NA
Column C	O&M																non-unitized: This MAT has no measurable units as the scope of work varies from year to													
1	158 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	JQA DIMP Leak Survey				No On-goi	ng Annual	861.3	843.5	(17.8)	-2.1%	NO	NO	year.	N/A	N/A	N/A	N/A	NO NO	Below variance threshold.	Not-Unitized.	On-Target	t Un-Targe	et On-Ti	arget Proceed	ng as Planned	N/A
No. Control	O&M Expense	Gas Distributio	on JQ	G Dist Integrity Mgt		Loss of Containment on Gas Distribution Main or Service	LOCDM-C014 Distribution Lea Management	Ex 3, Ch 10	No N/A	N/A	861.3	843.5	(17.8)	-2.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	'A	N/A	N/A
No. Control	160 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	JQC Program	SRM Total	SRM Total	Ex 3, Ch 8	No On-goi	ng Annual	3,581.9	3,091.0	(491.0)	-13.7%	NO	NO		N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	t On-Targe	et On-Ti	arget Proceed	ng as Planned	N/A
Part	O&M 161 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	Mark and Locate JQC Program	Loss of Containment on Gas Distribution Main or Service	LOCDM-C025 Dig-In Reduction Team	n Ex 3, Ch 8	No N/A	N/A	3,581.9	3,091.0	(491.0)	-13.7%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	'A	N/A	N/A
Secondary Control of the control	O&M							5.004									units because DIMP emergent work consists of work resulting from risk analysis and operational events. This work includes laboratory analysis, engineering, and incident investigations. Projects vary considerably and					10			0.7					
Second Continue	O&M					Loss of Containment on Gas		t	No On-goi		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,000			NO	NO	unitized.					NO.	Below Variance threshold.	NOT-Unitized.			ot On-11	arget Proceed	ng as Planned	N/A
Second Continues	163 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	JQD DIMP Emergent Worl		Work		Yes N/A	N/A	208.1	76.6	(131.5)	-63.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/	'A	N/A	N/A
Accordance Control C	164 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	JQD DIMP Emergent Worl	Loss of Containment on Gas Distribution Main or Service	Work LOCDM-C011 DIMP Emergen	Ex 3, Ch 4	Yes N/A	N/A	3,954.0	1,455.1	(2,498.9)	-63.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	'A	N/A	N/A
1	O&M 165 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	JQE Plastic Program	SRM Total	SRM Total	Ex 3, Ch 4	No On-goi	ng Annual	330.8	169.9	(160.9)	-48.6%	NO	NO	units because it oversees selecting, testing, and development of plastic materials, tools and construction methods for PG&E's plastic gas distribution system. Projects vary considerably and are not comparable so this	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	t On-Targe	et On-Ti	arget Proceed	ng as Planned	N/A
Column C	O&M 166 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	JQE Plastic Program	Loss of Containment on Gas Distribution Main or Service	LOCDM-C012 Plastics Program	Ex 3, Ch 4	No N/A	N/A	330.8	169.9	(160.9)	-48.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	'A	N/A	N/A
Fig. Decided Program	O&M				Fitting Mitigation																									This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to mitigate concern for mechanical fittings with known higher risk of failure. To do so, exploratory digs are performed and (if found) high risk fittings are repaired, replaced or
Column C	167 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt					No On-goi	ng Annual	2,431.5	1,984.5	(447.0)	-18.4%	NO NO	NO	Fittings Mitigated	480	139	(341)	-71.0%	YES	Below variance threshold.	work.	Under	Under	Unc	der Res	cheduled	replaced.
Common Service From Processing Service From Processing and Particles	O&M 168 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	JQG Program	Loss of Containment on Gas Distribution Main or Service	LOCDM-M005 Fitting Mitigatio Program	Ex 3, Ch 4	No N/A	N/A	2,431.5	1,984.5	(447.0)	-18.4%	N/A	N/A	NA	480	139	(341)	-71.0%	N/A	N/A	N/A	N/A	N/A	N	'A	N/A	NA
To Experses Gas Distribution 3Q Dist Integrity Mgt ADK Project Distribution Main or Service Stat Distribution State Stat	O&M 169 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	JQK Project	SRM Total	SRM Total	Ex 3, Ch 4	No On-goi	ng Annual	13,294.7	13,439.4	144.6	1.1%	NO	NO	# of inspections	19,313	8,085	(11,228)	-58.1%	YES	Below variance threshold.	from work in Sacramento, Mission, and Diablo to higher	On-Target	t On-Targe	et On-Ti	arget Proceed	ng as Planned	The purpose of this program is to inspect sewer facilities that potentially
OAM 177 Open Gas Distribution 190 Gas Distribution	O&M 170 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	JQK Cross Bored Sewer Project	Loss of Containment on Gas Distribution Main or Service	LOCDM-M006 Cross Bored Sewer Project	Ex 3, Ch 4	No N/A	N/A	13,294.7	13,439.4	144.6	1.1%	N/A	N/A		19,313	8,085	(11,228)	-58.1%	N/A	NA .	N/A	N/A	N/A	N	'A	N/A	N/A
OSM CEPG-O-010 DIMP Program Customer Conscious CEPG-O-010 DIMP Pro	O&M 171 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	JQL Management			Ex 3, Ch 4	No On-goi	ng Annual	4,868.1	151.9	(4,716.2)	-96.9%	NO	NO	units because it is used to record labor costs and is not used to measure gas plant units	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	t On-Targe	et On-Ti	arget Proceed	ng as Planned	NA
173 Expresse Gas Distribution JQ G Dist Integrity Mgt JQL Management Distribution Main or Service Management Ex 3, Ch 4 Yes NA		Gas Distributio	on JQ	G Dist Integrity Mgt	JQL DIMP Program JQL Management	Customer Connected	CCEPQ-C010 DIMP Program	Ex 3, Ch 4	Yes N/A	N/A	243.4	7.6	(235.8)	-96.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	'A	N/A	N/A
due higher supervision and management lambor pocksts. MWC DOM represents above costs to supervise or manage PGAEs personnel who charge their time direct clay to orders, net of overhead allocations applied between capital rare depense. The overhead is applied to both MWC OM, and WWC OS, which represents labor units because it is used to record labor and one of the personnel law of the present labor so the personnel law or the personnel law or the present labor so the personnel law or the	O&M 173 Expense	Gas Distributio	on JQ	G Dist Integrity Mgt	JQL DIMP Program Management	Loss of Containment on Gas Distribution Main or Service	LOCDM-C021 DIMP Program Management	Ex 3, Ch 4	Yes N/A	N/A	4,624.7	144.3	(4,480.4)	-96.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N	'Α	N/A	N/A
OSM Operational Operatio	O&M	Gas Distributio	on OM	Operational Management	OM# Not assigned	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 13	No Onesoi	ng Annual	13.394 A	21,468.8	8.074 4	60,3%	NO.	YES	units because it is used to record labor and employee-related costs to provide supervision	N/A	N/A	N/A	N/A	NO	due higher supervision and management labor costs. MWC OM represents labor costs to supervise or manage PG&E personnel who charge their time directly to orders, net of overhead allocations applied between capital and expense. The overhead in applied to both MWC OM and MWC OS, which represents labor costs in support of personnel. Due to a higher starting point in overall costs, driven by a mixture of different resources, a larger		On-Target	t On-Tarne	et On-Ti	arget Proceeds	ng as Planned	NA

TABLE 2-4
2023 RSAR
2023 GRC CYCLE GAS DISTRIBUTION CAPITAL COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

			1	T T	. 1	C5	T	1 .		T _	_	Ι					T .	T	T T			_	T .		III.	T			
	Type	В	C1	C2	C3 C4	C5	C6	C7	RAMP	E	F	G	Н	D.W	Spending Percent	Spending	Percentage	M	2023	Difference for	Q Unit Percent	R Unit Variance	e 2023	T 2023	U1	Forecast	U3	V	W
	Type (O&M pense or	Functional Area	al MWG	C MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony	Roll-up	Project Life	Project Year	2023 Imputed		for 2023 (\$)	Variance for 2023	Variance Explanation	Variance Explanation	Unit Type	Imputed A	2023 (# of	Variance for 2023 (%)	Explanation	Cost	Unit	Scono		Budget	Status	Completion Status Statement
	apital)	Area					Control Name	Reference	(Yes/No)	(years)	Project rear	Adopted Costs	Costs	(H-G)	(%) ((H-G)/G*100)	Required (Y/N)	Required (Y/N)		Adopted Units	nits Units)	((O-N)/N*100)	Required (Y/N)	Variance Explanation	Variance Explanation	Scope (U, O, or T)	(U, O, or T)	Budget (U, O, or T)		
1 (Capital	Gas Distribution Gas	n 14	G Dist Pipeline Repl Program	Pipeline Repl Pgm- Mains & Svcs Pipeline Repl Pgm-	SRM Total Loss of Containment of	SRM Total LOCDM-M001 Pipeline Replacement Program	Ex 3, Ch 4	No	On-going	Annual	102,467.7	97,302.5	(5,165.3)	-5.0%	NO	NO	feet of main installed		.523 (35,309)	-27.4%	YES	Below variance threshold.	Actual units were lower than imputed units due to weather impacts, crew reallocation to support higher risk or compliance work and projects being rescheduled due to high unit cost.	On-Target	On-Target	Over	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to replace all cast iron, bare steel, non-cathodiagy protected, profty steel main resitable before 1941 and may include post-1940 higher risk steel projects based on risk modelling.
2 0	Capital	Distribution	n 14	Repl Program	14A Mains & Svcs	Service	(Steel)	Ex 3, Ch 4	No	N/A	N/A	102,467.7	97,302.5	(5,165.3)	-5.0%	N/A	N/A	N/A	128,832 9	,523 (35,309)	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
3 (Capital	Gas Distribution	n 14	G Dist Pipeline Repl Program	Copper Service 14B Replacements	SRM Total Loss of Containment o	SRM Total	Ex 3, Ch 4	No	On-going	Annual	0.0	757.8	757.8	100.0%	NO	NO NO	# of services replaced	0	2 2	100.0%	YES	Below variance threshold.	Actual units were higher than imputed units as this MAT is no longer used for capital service replacements driven by risk of copper. This work is tracked in MAT 50B moving forward.	On-Target	On-Target	Over	Proceeding as Planned	NA
4 6	Capital	Gas Distribution	. 14	G Dist Pipeline Repl Program	Copper Service	Gas Distribution Main of		Fx 3 Ch 4	No	N/A	N/A	0.0	757 9	757 0	100.0%	N/A	N/A	N/A		, ,	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 (Capital	Gas Distribution	n 14	G Dist Pipeline Repl Program	Plastic Pipe 14D Replace_Main/Svc	SRM Total Loss of Containment or	SRM Total n LOCDM-M002 Pipeline	Ex 3, Ch 4	No	On-going	Annual	407,664.8	372,665.7	(34,999.1)	-8.6%	YES	NO NO	feet of main installed	733,920 44	1,837 (289,083)	-39.4%	YES	Program expenditures were below imputed regulatory values due to reprioritization in support of higher risk or compliance work.	Actual units were lower than imputed units due to weather impacts, crew reallocation to support higher risk or compliance work and projects being rescheduled due to high unit cost.	On-Target	On-Target	Over	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to miligate risks associated with leaks on distribution mains and services installed before 1985 with Aldyl A plastic and similar plastic materials.
6 (Capital	Gas Distribution	n 14	G Dist Pipeline Repl Program	Plastic Pipe 14D Replace_Main/Svc	Gas Distribution Main of Service	or Replacement Program (Plastic)	Ex 3, Ch 4	No	N/A	N/A	407,664.8	372,665.7	(34,999.1)	-8.6%	N/A	N/A	N/A	733,920 44	1,837 (289,083)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
7 (Capital	Gas Distribution	n 27	Gas Meter Protection- Capital Gas Meter	Meter Protection- 27A Capital	SRM Total Loss of Containment o	SRM Total	Ex 3, Ch 8	No	On-going	Annual	5,475.7	3,042.8	(2,432.8)	-44.4%	NO	NO	# of services corrected	184	89 (95)	-51.6%	YES	Below variance threshold.	Actual units were lower than imputed units due to reprioritization in support of higher risk or compliance work.	Under	Under	Under	Rescheduled	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to complete remediations to the AOC backlog in a reasonable amount of time while at the same time also performing ongoing AOC findings and repairs with available resources.
		Gas		Protection-	Meter Protection-	Gas Customer Connec	ted CCEPQ-C001 Meter						121 7																
8 (Capital	Distribution	n 27	Capital Gas Meter	27A Capital	Equipment Loss of Containment of		Ex 3, Ch 8	Yes	N/A	N/A	219.0	121.7	(97.3)	-44.4%	N/A	N/A	N/A	7	4 (4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9 (Capital	Gas Distribution	n 27	Protection-	Meter Protection- 27A Capital	Gas Distribution Main of Service	or LOCDM-C001 Meter Protection	Ex 3, Ch 8	Yes	N/A	N/A	5,256.7	2,921.1	(2,335.5)	-44.4%	N/A	N/A	N/A	177	R5 (91)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Capital	Gas Distribution	n 2K	G Dist Repl/Convert Cust HPR	Cust HPR Reg Sta 2K (a) Convert Main	SRM Total	SRM Total	Ex 3, Ch 6	No	On-going	Annual	0.0	18,630.6	18,630.6	100.0%	NO	YES	# of HPRs mitigated	0	73 73	100.0%	YES	Program expenditures exceeded imputed values because PG&E executed work prior to receiving the 2023 GRC Final Decision which adopted \$0 for this program.	Actual units were higher than imputed units because PG&E executed work prior to receiving the 2023 GRC Final Decision which adopted \$0 for this program.	On-Target	On-Target	Over	Proceeding as Planned	INA
		Gas		G Dist Repl/Convert	Cust HPR Reg Sta	'Large Overpressure Event Downstream of	LRGOP-M005 HPR																						
11 (Capital	Distribution	n 2K	Cust HPR	2K (a) Convert Main	Gas M&C Facility	Replacement	Ex 3, Ch 6	No	On-going	Annual	0.0	18,630.6	18,630.6	100.0%	N/A	N/A	N/A	0	73 73	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
12 (Capital	Gas Distribution	n 2K	G Dist Repl/Convert Cust HPR	Cust HPR Reg Sta 2K (a) Convert Main	Loss of Contnm at Gas Measrm & Cntrl / Cmp & Prossn Facil	MCCPF-M002 HPR Replacement	Ex 3, Ch 6	No	On-going	Annual	0.0	18,630.6	18,630.6	100.0%	N/A	N/A	N/A non-unitized: This MAT has no	0	73 73	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA .
13 (Capital	Gas Distribution	n 31	NGV - Station Infrastructure	31A 31A-LNG/CNG Stat		SRM Total	Ex 3, Ch 6	No	On-going	Annual	4,889.5	3,489.7	(1,399.8)	-28.6%	NO	МО	measurable units because it is used t record costs for CNG station upgrades. The type of upgrades performed at stations are not comparable.	NA NA	NA NA	NA NA	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
14 (Capital	Gas Distribution	n 31	NGV - Station Infrastructure	31A 31A-LNG/CNG Sta	Loss of Containment of tions CNG Station Equipment	n CNGEQ-C001 GV-Station Infrastructure	Ex 3, Ch 6	No	N/A	N/A	4,889.5	3,489.7	(1,399.8)	-28.6%	N/A	N/A	N/A	NA	NA NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15 (Capital	Gas Distribution	n 47	G Dist Capacity	Cons/Acq New Fac	-G- SRM Total	SRM Total	Ex 3, Ch 11	No	On-going	Annual	35,761.0	20,682.0	(15,078.9)	-42.2%	NO	YES	feet of main	46,200 1:	.612 (34,588)	-74.9%	YES	Program expenditures were below imputed regulatory values due to a lower materialization of system capacity demand than adopted. As a result, fewer capacity projects were installed than adopted and total spend was lower than adopted.	Actual units were lower than imputed units due to a lower materialization of system capacity demand than adopted. As a result, fewer capacity pipe units were installed than adopted.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to install gas main to provide additional capacity.
							CPCTY-C009 Construct/Acquire New																						
16	Capital	Gas Distribution	n 47	G Dist Capacity	47B Cap-Mains	-G- Insufficient Capacity to Meet Customer Demar	Facilities - Gas - Capital Mains	Ex 3, Ch 11	No	N/A	N/A	35,761.0	20,682.0	(15,078.9)	-42.2%	N/A	N/A	N/A	46,200 1	,612 (34,588)	N/A	N/A	NA	N/A Actual units were lower than imputed units due to a lower materialization of system capacity load demans	N/A	N/A	N/A	N/A	N/A This program has no end date. This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is
17 (Capital	Gas Distribution	n 47	Capacity	Cons/Acq New Fac 47C Cap-RegSta	SRM Total	SRM Total	Ex 3, Ch 11	No	On-going	Annual	5,881.9	922.9	(4,959.1)	-84.3%	NO	NO	total # reg stations addressed	3	1 (2)	-66.7%	YES	Below variance threshold.	than adopted. As a result, fewer regulator stations were installed than adopted.	On-Target	On-Target	On-Target	Proceeding as Planned	a continuing effort to build new regulator stations to address capacity needs as necessary.
							CPCTY-C010 Construct/Acquire New																				'		
18 (Capital	Gas Distribution	n 47	G Dist Capacity	Cons/Acq New Fac 47C Cap-RegSta	 -G- Insufficient Capacity to Meet Customer Demar 	Facilities - Gas Capital	Ex 3. Ch 11	No	N/A	N/A	5.881.9	922.9	(4.959.1)	-84.3%	N/A	N/A	N/A	3	1 (2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19 (Capital	Gas Distribution	n 47	G Dist Capacity	Cons/Acq New Fac		SRM Total	Ex 3, Ch 11	No	On-going	Annual	128.6	366.4	237.7	184.8%	NO	NO	# reg station components	4	6 2	50.0%	YES	Below variance threshold.	Actual units were higher than imputed units due to higher materialization of system capacity load demand than adopted. As a result, more components were installed than adopted.	on-Target	On-Target	On-Target	Proceeding as Planned	This program has no end date. This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to address capacity needs as necessary through component replacement.
							CPCTY-C011 Construct/Acquire New																				'		
20 (Capital	Gas Distribution	n 47	G Dist Capacity	Cons/Acq New Fac 47D Cap-ReplReg	 -G- Insufficient Capacity to Meet Customer Deman 	Facilities - Gas Capital	Ex 3, Ch 11	No	N/A	N/A	128.6	366.4	237.7	184.8%	N/A	N/A	N/A	4	6 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21 (Capital	Gas Distribution	n 47	G Dist Capacity	Cons/Acquire New 47F G-Cap-Oth		SRM Total	Ex 3, Ch 11	No	On-going	Annual	59.0	8.0	(50.9)	-86.4%	NO	NO	non-unitized: This MAT has no measurable units because it is used t record capacity related costs that are not captured by any other MAT.	to e NA	NA NA	NA NA	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
							CPCTY-C012																				'		
		Gas		G Dist	Cons/Acquire New	Fac Insufficient Capacity to	Construct/Acquire New Facilities - Gas Capital																				'		
22 (Capital	Gas Distribution	n 47	G Dist Ctrl Operations Assets G Dist Ctrl	47F G-Cap-Oth ERX Pressure Monitoring-6	Meet Customer Demar	Other SRM Total	Ex 3, Ch 11	No No	N/A On-going	N/A Annual	59.0 530.5	8.0 375.7	(50.9)	-86.4% -29.2%	N/A NO	N/A NO	N/A # electronic pressure recorders	NA 10	0 (10)	-100.0%	N/A YES	N/A Below variance threshold.	NA Actual units were lower than imputed units due to a process change in which we moved away from a resuctable agreement to an easement process. As a result, turn around time is increased and no units were installed in 2023.	N/A On-Target	N/A On-Target	N/A On-Target	N/A Proceeding as Planned	NVA This program has no end date. This program's work is engoing and will confine in PGAE's 2023 GRC period. The purpose of this program is a continuing effort to install electroity pressure recording devices to monitor a regulator station or hydraulically independent system's performance and to markfain system restribly.
24 (Capital	Gas Distribution	n 4^	Operations Assets	ERX Pressure 4AF Monitoring-6	Insufficient Capacity to Meet Customer Demar	CPCTY-M005 SCADA nd Service Monitor	Ex 3, Ch 11	No	N/A	N/A	530.5	375.7	(154.8)	-29.2%	N/A	N/A	N/A	10	0 (10)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
25	Capital	Gas Distribution		G Dist Ctrl Operations Assets	ERX Pressure 4AF Monitoring-6	Large Overpressure Event Downstream of Gas M&C Facility	LRGOP-M006 SCADA Service Monitor	Ex 3, Ch 11	No	N/A	N/A	530.5	375.7	(154.8)	-29.2%	N/A	N/A	N/A	10	0 (10)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	INA

TABLE 2-4 2023 RSAR

2023 GRC CYCLE GAS DISTRIBUTION CAPITAL COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

																				_					_			
A Type	E	C1	C2	C3	C4	C5	C6	C7	D E	F	G	Н	J Spending Pe	cent Spending	Percentage	M	N 2023	0	P Difference for	Q or Unit Percent	R Unit Variance	S e 2023	T 2023	U1	U2 Forecast	U3	V	W
Line No Expense o			WC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	restimony	RAMP Program Roll-up Project L	ife Project Ve	ear Adopted Costs	Conto	variance for	2023 Variance Explanation	Explanation	Unit Type	Imputed Adopted	Actual	2023 (# of Units)	Variance for 2023 (%)	Explanation Required	Cost Variance	Unit Variance	Scope	Schedule	Budget	Status	Completion Status Statement
Capital)							Solid of Hallic	Reference	(Yes/No) (years)	Trojunt re	cui Puopicu Gooto	00010	(H-G) ((H-G)/G*1	(Y/N)	Required (Y/N)		Units	Units	(O-N)	((O-N)/N*100)	(Y/N)	Explanation	Explanation	(U, O, or T)	(U, O, or T)	(U, O, or T)		
	Gi		Dist Ctrl erations	EF	RX Pressure	Loss of Contnm at Gas Measrm & Cntrl / Cmprsr	MCCPF-M005 SCADA																					
26 Capital	Distrit	ution 4A Ass	sets	4AF Mo	onitoring-6	& Prossn Facil	Service Monitor	Ex 3, Ch 11	No N/A	N/A	530.5	375.7	(154.8) -29.2%	N/A	N/A	N/A	10	0	(10)	N/A	N/A	N/A	N/A Actual units were higher than imputed units because	N/A	N/A	N/A	N/A	N/A
			Dist Ctrl																			Program expenditures exceeded imputed regulatory values because PG&E executed work prior to receiving	PG&E executed work prior to receiving the 2023					
27 Capital	G: Distrit	s Op ution 4A Ass	erations sets	4AM Fig	eg Stat Mntr Dual No ow-3	SRM Total	SRM Total	Ex 3, Ch 11	No On-goin	g Annual	0.0	11,317.4 1	1,317.4 100.0%	NO	YES	remote terminal units installed	0	27	27	100.0%	YES	the 2023 GRC Final Decision which adopted \$0 for thi program.	GRC Final Decision which adopted \$0 for this program.	On-Target	On-Target	Over	Proceeding as Planned	N/A
																							Actual units were lower than imputed units due to					This program's work is ongoing and will continue in PG&E's 2023 GRC
	G		Dist iability	lm	npr Rel/ Dep - Gas						.						l	l					weather impacts, crew reallocation to support higher risk or compliance work and projects being					period. The purpose of this program is to mitigate risks associated with deterioration or reduced reliability, and includes non-leak replacements
28 Capital	Distrit		neral Dist	50A Ma	ains	SRM Total Loss of Containment on	LOCDM-C002 Improve	Ex 3, Ch 4	No On-goin	g Annual	52,051.1	47,051.6	4,999.5) -9.6%	NO	NO	feet of main installed	79,200	50,495	(28,705)	-36.2%	YES	Below variance threshold.	rescheduled due to high unit cost.	On-Target	On-Target	Over	Proceeding as Planned	driven by corrosion.
29 Capital	G: Distrit	s Rei	iability neral	50A Ma	npr Rel/ Dep - Gas ains	Gas Distribution Main or Service	Reliability/System Dependability - Gas Main	Ex 3, Ch 4	No N/A	N/A	52.051.1	47,051.6 (4,999.5) -9.6%	N/A	N/A	N/A	79.200	50.495	(28.705)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Gi	G I Rel	Dist iability	Im	npr Rel/Dep - Gas																	Program expenditures exceeded imputed regulatory values as additional units were required to be complet	Actual units were higher than imputed units as d additional units were required to be completed due					
30 Capital	Distrit	ution 50 Ge	neral	50B Se	ervices	SRM Total	SRM Total LOCDM-C003 Improve	Ex 3, Ch 4	No On-goin	g Annual	12,094.9	25,005.9 1	2,911.0 106.7%	NO	YES	# of services replaced	427	608	181	42.4%	YES	due to compliance drivers such as corrosion.	to compliance drivers such as corrosion.	Over	Over	Over	Emergent	N/A
	Gi		Dist iability	Im	npr Rel/Dep - Gas	Loss of Containment on Gas Distribution Main or	Reliability/System																					
31 Capital	Distrit	ution 50 Ge	neral		ervices	Service	Services	Ex 3, Ch 4	No On-going	g Annual	12,094.9	25,005.9 1	2,911.0 106.7%	N/A	N/A	N/A	427	608	181	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		G	Dist																				Actual units were lower than imputed units due to					This program has no end date. This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is
32 Capital	G: Distrit		iability neral	50C Re	npr Rel/Dep Gas egulation	SRM Total	SRM Total	Ex 3, Ch 6	No On-goin	g Annual	49,887.2	45,583.4 (4,303.9) -8.6%	NO	NO	# of regulator stations addressed	25	16	(9)	-36.0%	YES	Below variance threshold.	reprioritization in support of higher risk or compliance work, which delayed some work into 2024.	On-Target	On-Target	On-Target	Proceeding as Planned	a continuing effort to replace and rebuild regulator stations as necessary.
	Gi		Dist iability	Im	npr Rel/Dep Gas	Large Overpressure Event Downstream of	LRGOP-C008 Gas Distribution Reg Station																					
33 Capital	Distrit		neral	50C Re	egulation	Gas M&C Facility Loss of Contnm at Gas	Rebuild	Ex 3, Ch 6	No N/A	N/A	49,887.2	45,583.4 (4,303.9) -8.6%	N/A	N/A	N/A	25	16	(9)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Gi	s Rei	iability	Im	npr Rel/Dep Gas	Measrm & Cntrl / Cmprsr	Distribution Reg Station	F. 0.01.0			40.007.0	45 500 4	4.303.9) -8.6%	N/A			0.5	40	(0)				h			N/4		
34 Capitai	Distrit	ution 50 Ge	nerai	DUC RE	egulation	& Pressn Facil	Rebuild	Ex 3, Ch 6	NO N/A	N/A	49,887.2	45,583.4	4,303.9) -8.6%	N/A	N/A	N/A	25	16	(9)	N/A	N/A	N/A	Actual units were lower than imputed units due to	NA	N/A	N/A	N/A	NA
																							fewer rectifiers and Remote Monitoring Units (RMUs)being replaced compared to the anticipated					This program's work is ongoing and will continue in PG&E's 2023 GRC
	Gi	G I	Dist iability	Im	npr Rel/Dep Gas CP											RMUs, Casing Mitigation and CP							failure rate. Of the 62 units completed, 11 were RMUs, 47 were rectifiers, and 4 were span re-coat					period. The purpose of this program is to perform span re-coats over 100 Feet long, replace rectifiers, and replace Remote Monitoring Units
35 Capital	Distrit	ution 50 Ge	neral	50D Sy	ystems	SRM Total	SRM Total	Ex 3, Ch 9	No On-goin	g Annual	1,383.5	1,291.0	(92.5) -6.7%	NO	NO	Systems	80	62	(18)	-22.5%	YES	Below variance threshold.	projects exceeding 100 Feet.	On-Target	On-Target	On-Target	Proceeding as Planned	(RMUs) which are connected to rectifiers.
	G	s Rei	Dist iability	lm	npr Rel/Dep Gas CP	Loss of Containment on Gas Distribution Main or	LOCDM-C018 Distribution																					
36 Capital	Distrit	ution 50 Ge	neral	50D Sy	ystems	Service	Corrosion Control Program	Ex 3, Ch 9	No N/A	N/A	1,383.5	1,291.0	(92.5) -6.7%	N/A	N/A	N/A	80	11	(69)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																							Actual units were lower than imputed units as PG&E					
		GI	Dist		B. II B C																		performed fewer find-it/fix-it valve replacements than expected. This is because the find rate was lower					This program's work is ongoing and will continue in PG&E's 2023 GRC
37 Capital	G: Distrit		iability neral	50E Va	npr Rel/Dep Gas alves	SRM Total	SRM Total	Ex 3, Ch 4	No On-goin	g Annual	5,775.8	10,229.8	1,454.0 77.1%	NO	NO	# of valves installed	100	74	(26)	-26.0%	YES	Below variance threshold.	compared to previous years. This is "find-it and fix-it" type of work.	On-Target	On-Target	On-Target	Proceeding as Planned	period. The purpose of this program is replace gas distribution valves of size 2 inch or greater.
	Gi		Dist iability	Im	npr Rel/Dep Gas	Loss of Containment on Gas Distribution Main or	LOCDM-C004 Improve Reliability/Dependability -																					
38 Capital	Distrit		neral		alves	Service	Gas Valves	Ex 3, Ch 4	No N/A	N/A	5,775.8	10,229.8	1,454.0 77.1%	N/A	N/A	N/A non-unitized: This MAT has no	100	74	(26)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																measurable units because units of												
	G	s G I	Dist iability		npr Rel/Dep Gas											measure such as number of deactivated services, valves, and												
39 Capital	Distrit	ution 50 Ge	neral	50F Ot	ther Equip	SRM Total	SRM Total	Ex 3, Ch 4	No On-goin	g Annual	488.0	1,193.9	705.9 144.7%	NO NO	NO	mains are not comparable.	NA	NA.	NA NA	NA NA	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	Gi	G I Rei	Dist iability	Im	npr Rel/Dep Gas	Loss of Containment on Gas Distribution Main or	LOCDM-C005 Improve Reliability/Dependability -																					
40 Capital	Distrit	ution 50 Ge	neral		ther Equip	Service	Gas Other Equipment	Ex 3, Ch 4	No N/A	N/A	488.0	1,193.9	705.9 144.7%	N/A	N/A	N/A	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	G	s Rei			npr Rel/Dep-Gas Svo																							
41 Capital	Distrit		neral Dist	(b) Re	epl Leak	SRM Total Loss of Containment on	SRM Total	Ex 3, Ch 10	No On-goin	g Annual	14,809.4	24,303.0	9,493.6 64.1%	NO	NO	# of services replaced	978	1,036	58	5.9%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as planned	N/A
42 Capital	G: Distrit		iability 5		npr Rel/Dep-Gas Svo epl Leak	Gas Distribution Main or Service	LOCDM-C014 Distribution Leak Management	Ex 3, Ch 10	No N/A	N/A	14 809 4	24.303.0	9.493.6 64.1%	N/A	N/A	N/A	978	1 036	58	5.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
42 Gapitai	Distri	00 00	iorai	(6)	opi Louit	COTANGO	Louis management	Ex 0, On 10	160	- IVA	14,555.4	24,000.0	5,400.0	1671	167		570	1,000		0.570	1671		Actual units were lower than imputed units as the of	1671	1671	167	1671	
	Gi		Dist iability	Im	npr Rel/Dep-CutOff																		number of idle stubs/risers addressed were reduced in order to fund other compliance-driven work such as					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to remove/cut-off idle stubs and
43 Capital	Distril	ution 50 Ge	neral		le G Svc	SRM Total	SRM Total	Ex 3, Ch 4	No On-goin	g Annual	3,161.0	3,925.0	764.0 24.2%	NO	NO	cut off idle services	313	215	(98)	-31.3%	YES	Below variance threshold.	encroachments.	On-Target	On-Target	On-Target	Proceeding as Planned	risers identified in the field by locate and mark.
			Dist			Loss of Containment on	LOCDM-C006 Improve Reliability/System																					
44 Capital	G: Distrit		iability neral		npr Rel/Dep-CutOff le G Svc	Gas Distribution Main or Service	Dependability - Cut-Off Idle Gas	Ex 3, Ch 4	No N/A	N/A	3,161.0	3,925.0	764.0 24.2%	N/A	N/A	N/A	313	215	(98)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																non-unitized: This MAT has no												
	Gi		Dist	[.	npr Rel/Dep-Deac											measurable units because units of measure such as number of deactivated services, valves, and												
45 Capital	Distrit		neral	50l Or	nly-M/R/V	SRM Total	SRM Total	Ex 3, Ch 4	No On-goin	g Annual	8,924.2	10,239.5	1,315.4 14.7%	NO	NO	mains are not comparable.	NA	NA	NA	NA	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	G	s G I	Dist iability	Im	npr Rel/Dep-Deac	Loss of Containment on Gas Distribution Main or	LOCDM-C007 Improve									L							L		,		,	[
46 Capital	Distrit	ution 50 Ge	neral Dist	100 Or	nly-M/R/V	Service	ReM/R/V	Ex 3, Ch 4	No N/A	N/A	8,924.2	10,239.5	1,315.4 14.7%	N/A	N/A	N/A	NA	NA NA	NA.	NA NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
47 Canital	G: Distrit	s Rei	iability neral	50.1	as Overbuild - G	SRM Total	SRM Total	Ex 3, Ch 4	No On-goin	a Annual	16,738.4	21.049.6	13113 25.8%	NO.	NO.	# of services replaced	578	466	(112)	-19.4%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
Capital		GI	Dist	08	040104114 - 0	Loss of Containment on		2.0,0114	Oregoni	Aiiiddi	10,700.4		25.6%	140	110	sorresco repiaceu	310	-700	(112)	10.470		Tanana an contra.	THINING SECULIAR.	On ranger	On Taiget	On Target	rioscounty de Fidirilleu	
48 Capital	G: Distrit		iability neral	50J Ga	as Overbuild - G	Gas Distribution Main or Service	LOCDM-C009 Encroachment Program	Ex 3, Ch 4	No N/A	N/A	16,738.4	21,049.6	1,311.3 25.8%	N/A	N/A	N/A	578	462	(116)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Dist																				Actual units were lower than imputed units due to					This program's work is ongoing and will continue in PG&E's 2023 GRC
49 Capital	G: Distrit		iability neral		mergent Leaking Mai eplace	SRM Total	SRM Total	Ex 3, Ch 10	No On-goin	g Annual	5,757.3	2,557.1 (3,200.3) -55.6%	NO	NO	feet of main installed	7,707	1,947	(5,760)	-74.7%	YES	Below variance threshold.	reprioritization in support of higher risk or compliance work.	On-Target	On-Target	On-Target	Proceeding as planned	period. The purpose of this program is a continuing effort to mitigate leaks.
	Gi	GI		F-	mergent Leaking Mai	Loss of Containment on Gas Distribution Main or	LOCDM-C014 Distribution																					
50 Capital	Distril	ution 50 Ge	neral	50K Re	eplace	Service	Leak Management	Ex 3, Ch 10	No N/A	N/A	5,757.3	2,557.1	3,200.3) -55.6%	N/A	N/A	N/A	7,707	1,947	(5,760)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TABLE 2-4 **2023 RSAR**

2023 GRC CYCLE GAS DISTRIBUTION CAPITAL COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

		1 1			I	ı		_			,				1		<u> </u>			-	-	1	T	Т	1	I	_	1	
A Time	В	C1 C2	C3	C4	C5	C6	C7	D	E	F	G	Н	Casadia	Percent S	K Denaing F	Percentage	M	N 2023	0	P Warranga far	Q Unit Percent	R Unit Verience	S 2023	T 2023	U1	U2	U3	V	W
Type (O&M	Functional	MWC MWC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or	2023 GRC Testimony		Program / Project Life		2023 Imputed	2023 ACTUAL	Variance	for 2023	ariance planation E	Variance Explanation	Unit Type	Imputed	2023 Actual	2023 (# of	Variance for	Explanation	Cost	Unit		Forecast		Status	Completion Status Statement
Expense or Capital)	Area			mar runo	Tour Rose Harris	Control Name	Reference	(Yes/No)	(years)	Project Year	Adopted Costs					Required	Olik Type	Adopted Units	Units	Units) (O-N) (2023 (%) ((O-N)/N*100)	Required (Y/N)	Variance Explanation	Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Otatas	Somption states statement
		G Dist														11778													
51 Capital	Gas Distribution	Reliability 50 General	50L	Impr Rel Dep Gas Reg Component	SRM Total	SRM Total	Ex 3, Ch 6	No	On-going	Annual	10,669.3	13,723.3 3,	54.0 28	5%	NO	NO	# regulator station components	150	130	(20)	-13.3%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	_	G Dist			Large Overpressure	LRGOP-C009 Gas																							
52 Capital	Gas Distribution	Reliability 50 General	50L	Component	Event Downstream of Gas M&C Facility	Distribution Reg Station Component Replacements	Ex 3, Ch 6	No	N/A	N/A	10,669.3	13,723.3 3,	54.0 28	3%	N/A	N/A	N/A	150	130	(20)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
	Gas	G Dist Reliability		Impr Pel Den Gas Peg	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn	MCCPF-C010 Gas																							
53 Capital	Distribution	50 General	50L	Component		Component Replacements	Ex 3, Ch 6	No	N/A	N/A	10,669.3	13,723.3 3,	54.0 28	3%	N/A	N/A	N/A	150	130	(20)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																								Actual units were lower than imputed units due to les	5				
																								actual service replacements materializing than expected. The GRC imputed units was based on an					
		C Diet																						average conversation rate from a below ground leak					This program's demand-driven work is ongoing and will continue in
	Gas	Reliability	50M/ 3PC (b)	Complex-Gas Svc Repl			Ex 3. Ch 10	No			1.125.0	1 717 3 5	12 3 52											executing the work, the number of services replaced					PG&E's 2023 GRC period. The purpose of this program is a continu
54 Capital	Distribution	50 General G Dist	3PC (ii)	Leak	SRM Total Loss of Containment on	SRM Total	Ex 3, Ch 10	No	On-going	Annual	1,125.0	1,/1/.3 5	92.3 52	5%	NO	NO .	# of services	63	40	(23)	-36.5%	YES	Below variance threshold.	varies.	On-Target	On-Target	On-Target	Proceeding as planned	effort to mitigate leaks.
55 Canital	Gas Distribution	Reliability	50M/ 3PC (b)	Complex-Gas Svc Repl	Gas Distribution Main or	LOCDM-C014 Distribution Leak Management	Ex 3. Ch 10	No	N/A	N/A	1 125 0	1 717 3 5	12 3 52	20/	N/A	N/A	N/A	63	40	(22)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/Δ	N/A
55 Capital	DISTIDUTION	50 General	3FC ··	Leak	Service	Leak Management	EX 3, CII 10	NO	INVA	IVA	1,125.0	1,717.3	12.3	370	NA	IVA	INA	63	40	(23)	INA	INA	IN/A	IVA	INA	IWA	INA	INA	IWA
		G Dist																					Program expenditures exceeded imputed regulatory values because PG&E executed work prior to receiving	PG&E executed work prior to receiving the 2023					
56 Capital	Gas Distribution	Reliability 50 General	50N	GD Over Pressure Protection	SRM Total	SRM Total	Ex 3, Ch 6	No	On-going	Annual	0.0	10,259.4 10.	259.4 100	0%	NO	YES	# of stations addressed	0	68	68	100.0%	YES	the 2023 GRC Final Decision which adopted \$0 for this program.	GRC Final Decision which adopted 0 units for this program.	On-Target	On-Target	Over	Proceeding as Planned	N/A
	Gas	G Dist			Large Overpressure																								
57 Capital	Gas Distribution	Reliability 50 General	50N	GD Over Pressure Protection	Event Downstream of Gas M&C Facility	LRGOP-M003 GD Overpressure Protection	Ex 3, Ch 6	No	N/A	N/A	0.0	10,259.4 10.	259.4 100	0%	N/A	N/A	N/A	0	68	68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
	Gas	G Dist Reliability		ImprRelb/SysDepd-G-																									
58 Capital	Distribution	50 General	50P	DpWellAnode	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	17,989.1	14,505.1 (3,	184.0) -19	4%	NO	NO	# of CP system installed	65	58	(7)	-10.8%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	Gas	G Dist Reliability		ImprRelh/SysDend-G-	Loss of Containment on Gas Distribution Main or	LOCDM-C018 Distribution																							
59 Capital	Distribution	50 General	50P	DpWellAnode	Service	Corrosion Control Program	Ex 3, Ch 9	No	N/A	N/A	17,989.1	14,505.1 (3,	184.0) -19	4%	N/A	N/A	N/A	65	58	(7)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		G Dist																											This program's work is ongoing and will continue in PG&E's 2023 G
60 Capital	Gas Distribution	Reliability 50 General	50Q	Casings	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	2,698.4	3,137.0 4	88.6 16.	3%	NO	NO	RMUs, Casing Mitigation and CP Systems	10	8	(2)	-20.0%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	period. The purpose of this program is Casing removal or remediat of size greater than 100 feet.
	_	G Dist			Loss of Containment on																								
61 Capital	Gas Distribution	Reliability 50 General	50Q	Casings	Gas Distribution Main or Service	LOCDM-C019 Casings	Ex 3, Ch 9	No	N/A	N/A	2,698.4	3,137.0 4	38.6 16.	3%	N/A	N/A	N/A	10	8	(2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
		G Dist		Rep/Inst																				Actual units were lower than imputed units due to					This program's work is ongoing and will continue in PG&E's 2023 G
62 Capital	Gas Distribution	Reliability 60 General	50P	EmerShtdwn&SafeOps	SPM Total	SDM Total	Ex 3. Ch 4	No	On going	Annual	5 775 8	3 244 4 (2	531.4) -43	90/.	NO	NO	# of valves installed	100	26	(64)	-64.0%	VES	Below variance threshold.	reprioritization in support of higher risk or compliance	On-Target	On-Target	On-Target	Proceeding as Planned	period. The purpose of this program is install new gas distribution
02 Capital	Distribution	G Dist	3011	Rep/Inst	Loss of Containment on	STOW TOTAL	EX 3, GIT4	140	Oirgoing	Airiuai	3,773.0	3,244.4 (2,	201.41) -40	0.70	NO	140	W OI VAIVOS IIISTAIIOU	100	30	(04)	-04.070	123	below variance uneshold.	WOR.	Oirraiget	Oirraiget	Oiriaiget	Proceeding as Fiantieu	valves or size 2 mon or greater.
63 Canital	Gas Distribution	Reliability 50 General	50R	EmerShtdwn&SafeOps Val	Gas Distribution Main or Service	LOCDM-M004 New Valve Installations	Ex 3, Ch 4	No	N/A	N/A	5 775 8	3.244.4 (2.	531.4) -43	8%	N/A	N/A	N/A	100	36	(64)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																	The MATERIAL TO												
		G Dist Leak															non-unitized: This MAT has no measurable units because it is used to												
64 Capital	Gas Distribution	Repl/Emergen 52 cy	52#	Not assigned	SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	0.0	82.0 8	2.0 100	0%	NO	NO	record other support costs for third party damage service repair.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	
	Gas	G Dist Leak Repl/Emergen		Emerg Resp-G-Dig-Ins																									
65 Capital	Distribution	52 cy	52B	Svcs	SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	1,343.9	2,855.3 1,	11.4 112	5%	NO	NO	# of services replaced	178	151	(27)	-15.2%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as planned	N/A
	Gas	G Dist Leak Repl/Emergen		Emera Resn-G-Dia-Ins	Loss of Containment on Gas Distribution Main or	LOCDM-C014 Distribution																							
66 Capital	Distribution	52 cy	52B	Svcs	Service	Leak Management	Ex 3, Ch 10	No	N/A	N/A	1,343.9	2,855.3 1,	11.4 112	5%	N/A	N/A	N/A	178	151	(27)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Gas	G Dist Leak Repl/Emergen		Emerg Resp-G-Dig-Ins-																									
67 Capital	Distribution	52 cy	52C	Main	SRM Total Loss of Containment on	SRM Total	Ex 3, Ch 10	No	On-going	Annual	296.5	1,710.2 1,	13.7 476	7%	NO	NO	feet of main replaced	1,122	1,288	166	14.8%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as planned	N/A
	Gas	G Dist Leak Repl/Emergen		Emerg Resp-G-Dig-Ins-	Gas Distribution Main or	LOCDM-C014 Distribution											Ĺ							L			l		[
68 Capital	Distribution	52 cy	52C	Main	Service	Leak Management	Ex 3, Ch 10	No	N/A	N/A	296.5	1,710.2 1,	13.7 476	7%	N/A	N/A	N/A	1,122	1,288	166	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																								Actual units were higher than imputed units due to a change in reporting practice which resulted in more					
																								regulator replacement units being captured in this MAT. Historically, regulator changes completed while					
	Gas	Install New																						in the field performing other gas field services work			1 .		[
69 Capital	Distribution	74 Gas Meters	74A	Install Regulators	SRM Total Loss of Containment on	SRM Total	Ex 3, Ch 8	No	On-going	Annual	2,257.4	10,296.8 8,	39.4 356	1%	NO	NO	# of regulators	6,833	28,283	21,450	313.9%	YES	Below variance threshold.	was captured in the MAT that drove the initial job.	Over	Over	Over	Emergent	N/A
1	Gas	Install New	1		Gas Customer Connected	CCEPQ-C016 Gas Reg	Ex 3, Ch 8	1		N/A	2.257.4	10.296.8 8.	39.4 356	40/	N/A			6.833			N/A	N/A		L	N/A	N/A	N/A	N/A	
70 Capital	Distribution	74 Gas Meters		Install Regulators	Equipment			No	N/A										28.283	21.450									

E. Gas Distribution MWC Descriptions – Expense

MWC AB – **Support** – Encompasses miscellaneous gas distribution costs not aligned with other MWCs or MATs, including, but not limited to: (1) miscellaneous expenses such as industry association dues and miscellaneous contract spend; and (2) collection point for zero sum allocation type work such as Standard Cost Variance (SCV), blanket purchase orders and working stock.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC BC – Perform Reimbursable Work for Others – Includes costs and the reimbursable expenses incurred to provide mutual assistance support to other utilities.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC DD – Provide Field Service – Includes customer generated requests for service that require site visit by a field technician, as well as immediate response standby costs. Service requests include investigating reports of possible gas leaks, carbon monoxide monitoring, customer requests for stop/starts of gas service, appliance pilot relights, appliance adjustment and safety checks.

This MWC relates to safety and/or reliability and/or maintenance as it includes customer generated requests for service that require site visit by field technician to address issues such as possible gas leaks or safety checks.

SCV represents the difference between actual costs incurred and the amount charged out by employees at a predetermined rate (i.e., standard cost). Costs charged out are calculated using productive hours multiplied by a planned standard hourly rate. When results match initial estimates, SCV should be minimal. That said, while initial estimates do factor in external factors (e.g., extreme weather) based on historical data, actual results inevitably vary resulting in a SCV. The following is a simplified example of the standard cost calculation and how SCVs occur. Based on the historic pattern of Team A's productivity and anticipated workload, it is projected that Team A will have a monthly cost of \$100,000 for 10 employees and will perform 1,000 hours of work in a month. The resulting standard rate for Team A is \$100 per hour (\$100,000/1,000 hours). If Team A completes 1,000 hours of work in the month according to plan, Team A will have a zero SCV. However, if Team A does not complete all the planned work, e.g., due to unanticipated bad weather, and only completes 950 hours of work, Team A will have an unfavorable SCV of \$5,000 (50 hours × \$100 per hour).

MWC DE – Leak Survey – Includes periodic or routine leak surveys performed by PG&E on its distribution system that are necessary to comply with pipeline safety regulations. MWC DE also includes special leak surveys conducted by PG&E on its gas distribution system that are outside of the routine leak survey schedule for either operating reasons or to assess the integrity of the pipe.

This MWC relates to safety and/or reliability and/or maintenance as it includes periodic or routine leak surveys performed by PG&E on its distribution system that are necessary to comply with pipeline safety regulations.

MWC DF – Locate and Mark – Includes the work necessary to comply with federal pipeline safety regulations and state law that requires PG&E to belong to and share the costs of operating the regional "one--call" notification systems. Builders, contractors, and others planning to excavate use these systems to notify underground facility owners, like PG&E, of their intent to excavate. PG&E then provides the excavators with information about the location of its underground facilities by visiting the work site and placing color-coded- surface markings to show the location of pipes and wires. Excavation activities that are within specified distances of high priority facilities require field meets or standby.

This MWC relates to safety and/or reliability and/or maintenance as it includes the work necessary to comply with federal pipeline safety regulations and state law that requires PG&E to belong to, respond to notifications, and share the costs of operating the regional "one-call" notification systems.

MWC DG – Cathodic Protection (CP) – Includes work related to mitigating the effects of corrosion on metallic gas distribution pipelines. Corrosion of gas piping systems can cause leaks and other potential safety hazards. In the case of steel gas lines, the pipe is coated or wrapped before installation, followed by the application of CP through the use of either an impressed system or galvanic anodes as required by federal pipeline safety regulations. The CP system requires continual monitoring on regular intervals to ensure that adequate levels of current are maintained. Maintenance tasks include monitoring CP levels on metallic pipe by taking required pipe to soil reads and reading rectifiers to verify correct operation. If the CP system is found to read below protected levels, corrective action is taken by troubleshooting the CP systems to identify the location of the problem (e.g., electrically shorted meters, underground electrical

contacts with other metallic structures, electrical interference, malfunctioning impressed current system, or depleted galvanic anodes). Appropriate corrective action is subsequently performed to restore the CP system to satisfactory protection levels.

This MWC relates to safety and/or reliability and/or maintenance as it includes work related to mitigating the effects of corrosion on metallic gas distribution pipelines. Corrosion of gas piping systems can cause leaks and other potential safety hazards.

MWC DN – Curriculum Development/Gas Qualifications – The Gas Qualifications program creates new and revises existing training materials ensuring that the Gas workforce is competent, safe, and qualified and includes costs associated with field employee operator qualifications. It does not include curriculum development, the general maintenance, or delivery of training materials.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC EX – Meter Protection – Includes efforts to ensure that gas meter locations that do not conform to current PG&E standards and/or federal pipeline safety regulations are addressed. The program focuses on two types of non-conforming meter locations: those with inadequate protection from potential damage by vehicles; and those with inaccessible service or shutoff valves. The work to correct these non-conforming facilities generally involves one of three work activities: installing barrier posts, installing a new valve or relocating the meter set.

This MWC relates to safety and/or reliability and/or maintenance as it includes efforts to ensure that gas meter locations that do not conform to current PG&E standards and/or federal pipeline safety regulations are addressed. The Meter Protection Program (MPP) focuses on two types of non-conforming meter locations: those with inadequate protection from potential damage by vehicles; and those with inaccessible service or shutoff valves.

MWC FG – Operate Gas Distribution System – Includes a broad range of operations which include monitoring system pressures and flows, checking odorant intensity levels for leak detection, operating valves, regulator stations, and changing pressure recorder charts. Additionally, this program includes

occasional manual operations to provide necessary capacity during peak demand periods in the morning (e.g., using a Compressed Natural Gas (CNG) or Liquefied Natural Gas natural gas tanker to inject gas, manually opening separation valves to redirect gas, or manually bypassing regulator station equipment to flow more gas).

This MWC relates to safety and/or reliability and/or maintenance as it includes a broad range of operations to keep the system safe, such as monitoring the system pressures and flows, checking odorant intensity levels for leak detection; operating valves and regulator stations, and changing pressure recorder charts.

MWC FH – Gas Preventive Maintenance – Includes work to comply with pipeline safety regulations that require PG&E to conduct periodic inspection and maintenance on its gas distribution system. Preventive maintenance work includes regulator station maintenance, maintenance on mains and services, distribution valve replacement, service valve replacement, atmospheric corrosion (AC) inspections, and overall gas maintenance support.

This MWC relates to safety and/or reliability and/or maintenance as it includes work to comply with pipeline safety regulations that require PG&E to conduct periodic inspection and maintenance on its gas distribution system.

MWC FI – Gas Corrective Maintenance – Includes work to repair or replace damaged or failed gas facilities. In many cases, the need for such restoration is identified during the preventive maintenance activities described in MWC FH. Corrective maintenance includes leak repair, dig-in repair, CP restoration, regulator station repair, and distribution valve repair. Below ground Grade 3 leak repairs are recorded under MWC LW – Leak Abatement.

This MWC relates to safety and/or reliability and/or maintenance as it includes work to repair or replace damaged or failed gas facilities.

MWC GF – Gas Mapping – Gas Mapping encompasses tracking the size, material type, location, configuration, and other essential information needed to identify gas transmission lines and over 42,000 miles of underground gas distribution main and nearly 3.3 million gas services in support of the Company's 4.1 million residential, commercial and industrial gas customers (accounts). Similar to electric mapping, gas mapping updates and maintains the gas

transmission and distribution system maps and records that serve many purposes and are critical to the safe and successful operation of the gas system.

This MWC relates to safety and/or reliability and/or maintenance as it involves tracking the size, material type, location, configuration, and other essential information needed to identify gas main and services.

MWC GG – Gas Distribution Planning and Operations Engineering – Includes local gas planning engineers modeling the gas distribution system to ensure a safe and reliable supply of natural gas to customers and to ensure that the system can accommodate future load growth. By simulating changes in load demand, engineers use modeling to identify potential constraints in the system to support service reliability.

This MWC relates to safety and/or reliability and/or maintenance as it includes local gas planning engineers modeling the gas distribution system to ensure a safe and reliable supply of natural gas to customers and to ensure that the system can accommodate future load growth.

MWC GM – Natural Gas Fueling Facilities Operation and Maintenance – Natural Gas Fueling Facilities Operations and Maintenance includes the work required to maintain and operate existing natural gas fueling facilities. PG&E operates over 800 Natural Gas Vehicles (NGVs) and has over 6,000 customers that use their natural gas fueling facilities. PG&E's network of natural gas fueling stations also serves as a back up to customer owned stations that are not available due to breakdowns or maintenance.

This MWC relates to safety and/or reliability and/or maintenance as it includes the work required to maintain and operate existing natural gas fueling facilities.

MWC GZ – Gas Research, Development, and Demonstration – Gas Research, Development & Demonstration includes research, development, and demonstration (RD&D) work in targeted areas of gas transmission and distribution. The objectives of gas RD&D are to explore new opportunities, concepts, and technologies to continue to provide safe and reliable service to customers at a lower cost, where possible.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC HY – Gas Meter Maintenance – The meter set is defined as the facilities between the shut-off valve (i.e., service valve and inlet valve) and service tee or meter outlet valve.

Maintenance includes:

- Corrective Maintenance work performed on meter sets greater than 1,000 cubic feet per hour (chi) and less than or equal to 1,000 chi. Outlet Valve greater than or equal to 2 inches in diameter and less than 2 inches in diameter.
- Preventive Maintenance work performed on meter sets greater than 1,000 cfh. Preventive maintenance work includes: Differential Pressure Tests, Regulator A Inspections, Pressure Verification, Electronic Corrector Maintenance, Turbine Spin Test, Delta A Turbine and Ultra-Sonic Diagnostic Testing.

This MWC relates to safety and/or reliability and/or maintenance as it includes corrective and preventative maintenance work performed on meter sets.

MWC JQ - Gas Distribution Integrity Management Program (DIMP) -

This program is mandated by Federal regulations and includes efforts to enhance gas distribution system safety by identifying risks to the gas distribution system and addressing those risks. The types of work in this MWC include development and improvements in the following areas: DIMP Program, preventative maintenance, DIMP leak surveys, operator qualifications, training, and programs including the Cross Bore Inspection Program, and Plastics Program.

This MWC relates to safety and/or reliability and/or maintenance as it includes efforts to enhance gas distribution system safety by identifying risks to the gas distribution system and addressing those risks.

MWC JV – Information Technology (IT) – Includes costs for ongoing maintenance, operations and repair for PG&E's IT applications, systems, and infrastructure.

This MWC was not presented in the 2023 General Rate Case (GRC) as related directly to safety and/or reliability and/or maintenance. However, certain projects within this MWC provide support for safety and/or reliability and/or maintenance projects.

1		MWC LK - Gas Expense Work Requested by Others (WRO) -
2		Encompasses work required by tariff, third-party requests, and franchise
3		compliance, including relocations and rearrangement of gas facilities, potholing,
4		and other WRO support work.
5		This MWC does not relate directly to safety and/or reliability and/or
6		maintenance.
7		MWC OM - Operational Management - Includes labor and employee
8		related- costs to provide supervision and management support. MWC OM also
9		includes costs incurred by the administrative staff working for the
10		Supervisors/Managers.
11		This MWC is included as a maintenance activity in accordance with
12		D.19-04-020. Gas Distribution does not consider MWC OM as related directly to
13		safety and/or reliability and/or maintenance work.
14		MWC OS - Operational Support - Includes labor and employee
15		related- costs to provide services and support that are unrelated to supervision
16		and management.
17		This MWC does not relate directly to safety and/or reliability and/or
18		maintenance.
19	F.	Gas Distribution MWC Descriptions – Capital
20		MWC 05 - Tools and Equipment - Includes the costs of miscellaneous
21		tools and equipment. expenditures are necessary to replace damaged, worn
22		out, or obsolete tools and to ensure specialized tools are available to perform
23		testing and other functions.
24		This MWC does not relate directly to safety and/or reliability and/or
25		maintenance.
26		MWC 14 - Gas Pipeline Replacement Program (GPRP) - Primarily
27		encompasses three gas distribution asset replacement programs: (1) the GPRP;
28		(2) Copper Service Replacement Program (CSRP); and (3) Plastic Pipe
29		Replacement Program. The GPRP targets cast iron and pre-1940 steel gas
30		mains. PG&E uses age, materials, seismic factors, and gas leaks to identify and

prioritize gas mains for replacement. In addition to gas main replacement, the

program includes related service replacement because copper services were

determined to have a similar relative risk as compared to GPRP pipe.

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Subsequently, plastic pipe replacement was included in MWC 14 because of an increase in the relative risk of vintage plastic material such as Aldyl-A.

This MWC relates to safety and/or reliability and/or maintenance as it includes gas distribution pipe replacement and service replacement programs for safety and reliability reasons.

MWC 27 – Gas Meter Protection – Includes efforts to ensure that gas meter locations that do not conform to current PG&E standards and/or federal pipeline safety regulations are addressed. The program focuses on two types of non-conforming meter locations: those with inadequate protection from potential damage by vehicles; and those with inaccessible service or shutoff valves. The work to correct these non-conforming facilities generally involves one of three work activities: installing barrier posts, installing a new valve or relocating the meter set.

This MWC relates to safety and/or reliability and/or maintenance as it includes efforts to ensure that gas meter locations that do not conform to current PG&E standards and/or federal pipeline safety regulations are addressed. The program focuses on two types of non-conforming meter locations: those with inadequate protection from potential damage by vehicles; and those with inaccessible service or shutoff valves.

MWC 29 – Gas Distribution Customer Connections – Includes building new gas distribution systems to provide service to new customers and the costs of regulators purchased for emergency response, regulator change outs, and system upgrades.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC 31 – NGV Station Infrastructure – Includes keeping PG&E's natural gas fueling infrastructure safe and in compliance for PG&E's fleet and customers. This work includes: (1) CP and underground corrosion protection; (2) upgrading stations to better serve the vehicles being produced in the market today; (3) increasing the reliability of stations; (4) security monitoring as required at some public access stations; and (5) remote monitoring of stations.

This MWC relates to safety and/or reliability and/or maintenance as it includes capital work to keep PG&E's natural gas fueling infrastructure safe.

MWC 47 – Gas Distribution Capacity – Includes capacity additions to meet load growth by reinforcing the existing gas systems.

This MWC relates to safety and/or reliability and/or maintenance as it includes capacity additions to meet load growth.

MWC 50 – Gas Distribution Reliability – Includes installation or replacement of gas facilities to: improve system safety and reliability, replace aging facilities, and maintain compliance with pipeline safety regulations. Facilities replaced include mains, services, regulator stations, CP equipment, and remote CP monitoring equipment. Below ground Grade 3 leak repairs are recorded under MWC 3P – Leak Abatement.

This MWC relates to safety and/or reliability and/or maintenance as it includes installation or replacement of gas facilities to improve system safety and reliability, replace aging facilities, and maintain compliance with pipeline safety regulations.

MWC 51 – Gas Capital WRO – Includes relocating gas distribution main and service facilities at the request of a governmental agency or other third parties (e.g., customers and developers). This work could be due to road widening, street improvements, sewer improvements and other similar work.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC 52 – Gas Distribution Emergency Response – Includes work and materials required to replace damaged or failed facilities including replacement of mains and services due to gas dig-ins and external forces such as landslides and earthquakes.

This MWC relates to safety and/or reliability and/or maintenance as it includes work and materials required to replace damaged or failed facilities.

MWC 74 – Install New Gas Meters – Includes regulator replacement labor to remove and install new regulators and meters and regulators for new business connections and labor to install. The meter set is defined as the facilities between the shut-off valve (i.e., service valve and inlet valve) and service tee or meter outlet valve. Maintenance includes: (1) Compliance – Scheduled Meter Change Outs less than or equal 1,000 cfh; (2) Compliance – Periodic Meter Change outs, every 10 years greater than 1,000 cfh;

(3) Corrective Maintenance work with replacement of meter performed on meter

sets less than or equal to 1,000 cfh and greater than 1,000 cfh; Meter outlet valve greater than or equal to 2 inches diameter; (4) Meter removal (retire) less than or equal to 1,000 cfh and greater than 1,000 cfh; (5) New Business less than 400 cfh and 400 - 1,000 cfh; (6) Capital projects (i.e., Replacement); and (7) SmartMeter™ gas module replacements.

This MWC relates to safety and/or reliability and/or maintenance as it includes regulator replacement labor to remove and install new regulators and meters.

MWC 78 – Manage Buildings – Includes capital buildings projects (i.e., facility upgrades/improvements as well as new construction) for GO.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC 2F – Build IT Applications and Infrastructure – Includes the costs to design, develop and enhance applications, systems, and infrastructure technology solutions.

This MWC was not presented in the 2023 GRC as related directly to safety and/or reliability and/or maintenance. However, certain projects within this MWC provide support for safety and/or reliability and/or maintenance projects.

MWC 2K – High Pressure Regulator (HPR) Program – Includes the replacement of gas HPRs or the reconstruction of gas distribution systems to eliminate the need for HPRs.⁹

This MWC relates to safety and/or reliability and/or maintenance as it includes activities such as the replacement of gas customer HPR or the reconstruction of gas distribution systems to eliminate the need for HPRs.

MWC 4A – Gas Distribution Control Operations Assets – Includes costs associated with the installation of Supervisory Control and Data Acquisition (SCADA) devices, electronic recorders (ERX), and associated field equipment. MWC 4A captures costs associated with the development of software tools to support the collection, retention, and presentation of data related to the Control

The HPR Program is presented at the MWC level because the 2023 GRC HPR replacement forecast was at the MWC level. The unit of measure is number of HPRs mitigated. For visibility, costs and units are recorded by MAT as follows: MAT 2KA – Customer HPR Station Main Conversion, MAT 2KB – Customer HPR Station Conversion to District Regulator Station, and MAT 2KC – Customer HPR Reg Station Replacement.

Center as well as support telecommunication radio system assets to monitor and control the gas distribution network.

This MWC relates to safety and/or reliability and/or maintenance as it includes costs to support the collection, retention, and presentation of data related to the Control Center as well as support costs for telecommunication radio system assets to monitor and control the gas distribution network.

G. Gas Distribution MAT Descriptions for Safety, Reliability, and MaintenanceWork – Expense

For descriptions of how the following Gas Distribution expense programs relate to safety, reliability, or maintenance, please see the MAT descriptions which explain the type of work associated with each MAT below.

MAT DDA -Field Service, Other - Other Support costs for Field Services.

This MAT relates to safety and/or reliability and/or maintenance as it involves other support costs for MWC DD Provide Field Services.

MAT DDD – Pilot Relight – Seasonal and other gas pilot relight activities at customer's request. Does not include: (1) relight for GPRP; (2) "off by crew" relights; and (3) service restoration following a major gas event.

This program relates to safety and/or reliability and/or maintenance as it involves seasonal and other gas pilot relight activities at a customer's request.

MAT DDE – Appliance Adjustments – Includes input, primary air, cleaning burner or pilot, safety checks and energy cost inquiries.

This program relates to safety and/or reliability and/or maintenance as it includes input, primary air, cleaning burner or pilot, safety checks and energy cost inquiries.

MAT DDF – Gas Fumigation – Gas starts/stops to facilitate fumigation work at customer premise.

This program relates to safety and/or reliability and/or maintenance as it involves gas starts/stops to facilitate fumigation work at a customer premise.

MAT DDG – Gas Leaks and Emergencies – Responding to customer-reported gas emergencies, includes high/low pressure, leaks, fires, explosions, carbon monoxide investigations, etc. on the customer's side of the gas meter. Includes flame pack call-out initiated by Gas Field Service where no leak is found on the distribution service or main. Does not include: (1) leak survey generated non-hazardous leak repairs at meter; (2) leak survey initiated

hazardous gas leak repair at the meter set; (3) gas dig-in response or stand-by, company or non-company equipment; (4) repair or replacement of gas valve; (5) replacement of gas regulators; (6) meter replacement; and (7) leaks on distribution main or service.

This program relates to safety and/or reliability and/or maintenance as it involves responding to customer reported gas emergencies, including high/low pressure, leaks, fires, explosions, carbon monoxide investigations, etc. on the customer's side of the gas meter.

MAT DDK – Gas Start – Turn-on (start) gas service at customer's request using routine change of account process. Requires site visit and manual operation. Does not include: (1) company-generated field credit activity; and (2) New Business generated customer connects.

This program relates to safety and/or reliability and/or maintenance as it involves turning-on (starting) gas service at customer's request.

MAT DDL – Gas Stop – Turn-off (stop) gas service at customer's request using routine change of account process. Requires site visit and manual operation. Does not include: (1) company-generated field credit activity; and (2) gas disconnect and removal for obsolete facilities.

This program relates to safety and/or reliability and/or maintenance as it involves turning-off (stopping) gas service at customer's request.

MAT DD# - Provide Field Service, Other – Other costs related to customer generated requests for service that require site visit by field technician.

See MWC DD Provide Field Service for how this MAT relates to safety and/or reliability and/or maintenance.

MAT DEA – Leak Survey – Perform compliance foot and mobile surveys of distribution mains and services only. Includes cost of equipment calibration, e.g., flame pack units. Also includes AC Inspections of exposed mains, exposed services, service risers, and meter sets being conducted in the course of the leak survey. Does not include Grade 1 leak standby unless the surveyor is actively helping with the repair (i.e., bar-hole pinpointing, digging etc.).

This program relates to safety and/or reliability and/or maintenance as it involves performing compliance foot and mobile gas leak surveys of distribution mains and services. It also includes AC Inspections of exposed mains, exposed

services, service risers, and meter sets being conducted in the course of the leak survey.

MAT DEB – Special Leak Survey – Perform special (non-compliance) foot and mobile leak survey of distribution mains and services, by special request (city paving, customer callout, emergencies, engineering, and risk mitigation). Includes calibration of the instruments associated to this work. It does not include costs to investigate leaks found at or downstream of the service valve.

This program relates to safety and/or reliability and/or maintenance as it involves special (non-compliance) foot and mobile leak survey of distribution mains and services, by special request (city paving, customer callout, emergencies, engineering, and risk mitigation). It also includes calibration of the instruments associated to this work.

MAT DEC – Leak Downgrade, No Repair – Includes instances where a repairable leak (Grade 1, 2, or 3)¹⁰ is downgraded to a non-hazardous leak (Grade 3) that does not require repair, the leak is not found (Grade 0) or leak is due to non-PG&E gas.

This program relates to safety and/or reliability and/or maintenance as it includes instances where a repairable leaks (Grade 1, 2, or 3) are downgraded to a non-hazardous leak (Grade 3) that do not require repair, instances where the leak is not found (Grade 0) or the leak is due to non-PG&E gas.

MAT DED – Leak Rechecks – Includes routine above and below ground Grade 3 and Grade 2 leak rechecks, follow-up Grade 0 rechecks, and/or post-repair rechecks.

This program relates to safety and/or reliability and/or maintenance as it includes routine above and below ground Grade 3 and Grade 2 leak rechecks, follow-up Grade 0 rechecks, and/or post-repair rechecks.

MAT DEE – Customer Calls – Survey/Investigation of leaks found on the distribution system where investigation is initiated by customer odor complaint. Does not include: (1) leak repair (pinpointing, digging, etc.), (2) distribution

¹⁰ Grade 1 leaks (also referred to as "hazardous" leaks) represent existing or probable hazards to persons or property and require immediate repair or continuous action until conditions are no longer hazardous. Grade 2 leaks are non-hazardous to persons or property at the time of detection, but still require a scheduled repair because they present probable future hazards. Grade 3 leaks are non-hazardous at the time of detection and can reasonably be expected to remain non-hazardous.

assets, (3) investigation of customer odor complaint where leak is found on the customer side of the service valve (4) leak repair (no meter exchange/rebuild).

This program relates to safety and/or reliability and/or maintenance as it involves survey and/or investigation of leaks found on the distribution system where the investigation is initiated by a customer odor complaint.

MAT DEF – Picarro Leak Survey – Includes: (1) use of Picarro Surveyor to perform compliance leak survey (drive) of distribution mains and services only, (2) perform foot survey of leak indication search areas (LISA) and Gap Survey (foot survey performed for service and mains not in the field of view of Picarro surveyor); and (3) Field of View Survey (five feet from building survey sweep). Does not include: If the surveyor is actively helping with the repair (i.e., bar-hole pinpointing, digging etc.).

This program relates to safety and/or reliability and/or maintenance as it includes: (1) Use of Picarro Surveyor to perform compliance leak survey (drive) of distribution mains and services only (2) Perform foot survey of LISA and Gap Survey (foot survey performed for service & mains not in the field of view of Picarro surveyor) and (3) Field of View Survey (five feet from building survey sweep).

MAT DEH – Gas Capacity Uprates – Involves expense work to upgrade existing distribution systems to a higher Maximum Allowable Operating Pressure (MAOP) for the primary purpose of creating new capacity.

This program relates to safety and/or reliability as it involves expense work to upgrade existing distribution systems to a higher MAOP for the primary purpose of creating new capacity. The program also includes activities to downrate or lower the pressure of a transmission pipeline so that it becomes a distribution pipeline.

MAT DE# – Leak Survey Support – Support costs for Leak Survey.

This MAT relates to safety and/or reliability and/or maintenance as it includes other support costs such as labor and other support for MWC DE Leak Survey.

MAT DFA – Locate and Mark – Locate and Mark underground Gas and Electric Distribution facilities per Underground Service Alert (USA) requests. Preparation of maps, process tickets, and perform administrative work, and Gas and Electric damage prevention activities. Also includes USA delineation

marking and calibration/repair of equipment. Does not include locate and mark for Gas and Electric Transmission.

This program relates to safety and/or reliability and/or maintenance as it involves locating and marking underground Gas and Electric Distribution facilities per USA requests and additional damage prevention activities like preparation of maps, processing tickets, and calibration/repair of equipment.

MAT DFB – Locate and Mark, Standby – Includes observation of work performed within five feet of a gas or electric transmission facility or for excavation activity within close proximity of a critical distribution facility. Unit of measure is number of sites requiring a standby.

This program relates to safety and/or reliability and/or maintenance as it includes observation of work performed within five feet of a gas or electric transmission facility or for excavation activity within close proximity of a critical distribution facility.

MAT DF# – Locate and Mark, Other – Support costs for Locate and Mark, including membership costs for USA.

This MAT relates to safety and/or reliability and/or maintenance as it includes support costs for MWC DF Locate and Mark.

MAT DGA – CP: **Monitoring** – Include all types of pipe-to-soil reads, including isolated steel, rectifier reads, and remote monitoring. Also includes remote rectifier monitoring unit communication and software costs, and electric utility costs for rectifiers.

This program relates to safety and/or reliability and/or maintenance as it includes all types of pipe-to-soil reads (which provides information about the CP levels on the pipeline), including isolated steel, rectifier reads, and remote monitoring. Also includes remote rectifier monitoring unit communication and software costs, and electric utility costs for rectifiers.

MAT DGB – CP: **Troubleshooting** – Includes troubleshooting and identification of problems with down Cathodic Protection Areas (CPA) and performing any remedial actions.

This program relates to safety and/or reliability and/or maintenance as it includes troubleshooting Cathodic Protection Areas which are operating outside of allowable range and determining necessary corrective action.

MAT DGC - CP: Rectifier Maintenance - Perform rectifier maintenance 1 2 and associated costs. This program relates to safety and/or reliability and/or maintenance as it 3 involves performing rectifier maintenance. 4 5 **MAT DGD – CP: Enhanced Survey** – Conduct enhanced CP survey and associated activities. 6 This program relates to safety and/or reliability and/or maintenance as it 7 8 involves conducting enhanced CP survey and associated activities. MAT DGE - Electrically Connected Isolated Steel Services - Identify and 9 evaluate electrically connected isolated steel services and associated activities. 10 11 This program relates to safety and/or reliability and/or maintenance as it involves identifying and evaluating electrically connected isolated steel services 12 and associated activities. 13 14 **MAT DGG – Installing Casing Test Stations** – Install casing test stations. This program relates to safety and/or reliability and/or maintenance as it 15 involves installing casing test stations, which are utilized to monitor for contacts 16 17 between the casing and carrier pipe. MAT DGH - Casing Short Mitigation Less Than 100 Feet - Clear casing 18 19 shorts or replace cased pipe less than 100 feet in length. This program relates to safety and/or reliability and/or maintenance as it 20 21 involves clearing casing shorts or replacing cased pipe less than 100 feet in 22 length. **MAT EXB – MPP Protection** – Includes installing barrier posts in order to 23 protect above ground gas facilities (meters and risers) from damage by vehicles. 24 Does not include: relocation requiring re-running the service from the main, 25 26 which is under MWC 27. 27 This program relates to safety and/or reliability as it involves installing barrier posts in order to protect above ground gas facilities (meters and risers) from 28 29 damage by vehicles. 30 MAT FGA – Gas Distribution Control Center (GDCC) Operations – Includes gas control personnel, contractor support, increased main Remote 31 Terminal Unit (RTU) and ERXs, apprentice training program, damage 32 33 prevention, abnormal conditions, emergency response, compliance, systems

operations, data collection, clearance process and benchmarking.

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This program relates to safety and/or reliability and/or maintenance as it includes gas control personnel, contractor support, increased main RTU and ERXs, apprentice training program, damage prevention, abnormal conditions, emergency response, compliance, systems operations, data collection, clearance process and benchmarking.

MAT FGB – Operate Distribution Mains and Services – Includes: changing winter and station pressure recorder charts (including downloading ERX), performing instrument calibrations (test equipment, gauges, portable pressure recorders, etc.) operating valves (including changes in emergency zones), removing distribution system pipeline liquids and monitoring system pressure. Does not include: calibration of Distribution Regulator Station mechanical pressure recorders during station maintenance or distribution SCADA, including ERX calibrations.

This program relates to safety and/or reliability and/or maintenance as it includes changing winter and station pressure recorder charts (including downloading ERX), performing instrument calibrations (test equipment, gauges, portable pressure recorders, etc.) operating valves (including changes in emergency zones), removing distribution system pipeline liquids and monitoring system pressure.

MAT FGC – Operate Distribution Regulator General – Control the supply and flow of gas through the distribution system via direction from the GDCC, adjust and change Distribution Regulator Station pressure set points, maintain station pressure in conjunction with winter or planned operational clearances.

This program relates to safety and/or reliability and/or maintenance as it involves controlling the supply and flow of gas through the distribution system via direction from the GDCC, adjusting and changing Distribution Regulator Station pressure set points, and maintaining station pressure in conjunction with winter or planned operational clearances.

MAT FHA - Preventative Maintenance, Gas Mains - Includes:

(1) non-leak repairs to distribution gas mains; (2) rewrap, lower, or paint gas distribution mains; (3) replace cover; protect shallow pipe; (4) replace/repair pipe hangars; (5) replace/relocate less than 100 feet of gas distribution main; (6) identify pipe; and (7) install Electrolytic Test Station (ETS) for the purpose of locating the main. Does not include: (1) main leak repairs; (2) any work related

to gas transmission; (3) any work caused by work or alteration by a customer or third party; (4) pothole gas facilities for potential conflicts with third-party work; (5) third-party damage; (6) AC; (7) install ETS for purposes of corrosion prevention; (8) fire valve repair or replacement; (9) main or service alterations due to "sewer cross-bores"; and (10) any corrective work related to sunk trenches or sunk bell holes.

This program relates to safety and/or reliability and/or maintenance as it includes: (1) non-leak repairs to distribution gas mains; (2) rewrapping, lowering, or painting gas distribution mains; (3) replacing cover or protecting shallow pipe; (4) replacing/repairing pipe hangars; (5) replacing/relocating greater than 100 feet of gas distribution main; (6) identifying pipe; and (7) installing ETS for the purpose of locating the main.

MAT FHB – Preventative Maintenance, Gas Regulator Station – Includes scheduled preventative maintenance inspections on distribution regulator stations, required maintenance work for all associated equipment inside the district regulator station, and vault dewatering. Does not include: (1) repairs to inlet and outlet fire valves with a pressure greater than 60 pounds per square inch gauge; (2) SCADA calibration of GDCC RTUs and ERXs installed at a regulator station; and (3) calibration of pressure recorders for planning "winter chart" applications (non-GDCC).

This program relates to safety and/or reliability and/or maintenance as it includes scheduled preventative maintenance inspections on distribution regulator stations.

MAT FHC – Preventative Maintenance, Gas Farm Tap – Performing atmospheric inspections on customer HPR sets, including Class "A" inspections.

This program relates to safety and/or reliability and/or maintenance as it involves performing atmospheric inspections on customer HPR sets, including Class "A" inspections.

MAT FHE – Preventative Maintenance, Gas Services – Includes:

(1) repair non-leaking gas distribution services; (2) riser replacement; (3) rewrap, lower, or paint gas distribution services; (4) clear and/or repair plugged services; (5) replace cover or protect shallow pipe; (6) repair, replace, relocate, or cut-off less than a full service; (7) repair, replace curb valves less than 2 inches; (8) investigate idle gas stub service cut-offs; (9) install ETS for the purpose of

locating the service; (10) installation of excess flow valve (EFV) (when not related to leak repair); (11) repairing inoperative bypass valves including exposing buried/inaccessible bypass valves and raising the riser; and (12) repairing non-gradable leaks on buried valves that require riser replacement. Does not include: (1) stub or service cut-off; (2) any work caused by work or alteration by a customer or third party; (3) third-party damage; (4) AC; (5) service valve replacement; (6) work above the service valve; (7) install ETS for the purpose of corrosion prevention; (8) service leak repairs; (9) main or service alterations due to "sewer cross-bores"; and (10) any corrective work related to sunk trenches or sunk bell holes.

This program relates to safety and/or reliability and/or maintenance as it includes: (1) repairing non-leaking gas distribution services; (2) riser replacement; (3) rewrapping, lowering, or painting gas distribution services; (4) clearing and/or repairing plugged services; (5) replacing cover; protecting shallow pipe; (6) repairing, replacing, relocating, or cutting-off less than a full service; (7) repairing or replacing curb valves less than 2 inches; (8) investigating idle gas stub service cut-offs; (9) installing ETS for the purpose of locating the service; and (10) installation of EFV (when not related to leak repair).

MAT FHG – Preventative Maintenance, Gas Valves – Perform scheduled inspections and operation checks of emergency, curb, and sectionalizing valves.

This program relates to safety and/or reliability and/or maintenance as it involves performing scheduled inspections and operation checks of distribution main valves such as emergency valves and curb valves.

MAT FHI – Corrective Maintenance, Gas Service Valves – Includes repair or replace inoperative service valves less than 2 inches which involves exposing buried/inaccessible service valves and raising the riser and relocation of an existing service valve less than 2 inches. Does not include: (1) valves greater than or equal to 2 inches; (2) work above the service valve; (3) encroachment related work; (4) installation or relocation of an existing service valve less than 2 inches that results in re-running the entire service from the main; and (5) repair or replace curb valves less than 2 inches.

This program relates to safety and/or reliability and/or maintenance as it involves repairing or replacing inoperative service valves less than 2 inches.

MAT FHJ - Gas Non-Recurring Projects - One-time non-recurring 1 2 maintenance projects. This program relates to safety and/or reliability and/or maintenance as it 3 includes one-time non-recurring maintenance projects. 4 5 **MAT FHK – AC Monitoring** – Inspect exposed gas mains and services, for AC. 6 This program relates to safety and/or reliability and/or maintenance as it 7 8 involves inspecting exposed gas mains and services for AC. **MAT FHL – AC Main Repairs** – Perform expense repair of AC on mains. 9 This program relates to safety and/or reliability and/or maintenance as it 10 11 involves performing expense repairs of AC on mains. **MAT FHM – AC Service Repairs** – Expense repairs of AC on services to 12 below the shut-off valve. Does not include: AC repairs of customer gas 13 regulators, HPRs, and meter sets. 14 This program relates to safety and/or reliability and/or maintenance as it 15 involves expense repairs of AC on services to below the shut-off valve. 16 17 MAT FHN - AC Distribution Regulator Station Repair - Expense repairs of AC on distribution district regulator stations. 18 19 This program relates to safety and/or reliability and/or maintenance as it 20 involves expense repairs of AC on distribution district regulator stations. 21 MAT FHO - Preventative Maintenance SCADA - SCADA preventive maintenance to RTU, SCADA Transmitters and ERXs. Activities may include 22 23 normal operation checks, input/output checks, check/set power supply and other activities. 24 This program relates to safety and/or reliability and/or maintenance as it 25 26 involves performing SCADA Preventive Maintenance to RTUs, SCADA 27 Transmitters and ERXs. MAT FHP - Corrective Maintenance SCADA - SCADA corrective 28 29 maintenance to RTUs, SCADA Transmitters, ERXs, as well as GDCC RTUs and 30 GDCC ERXs. Activities may include response and investigation of SCADA alarms at the request of the control center and maintenance or repair of failed or 31

inoperative electronic permanent pressure recorder at a regulator station.

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This program relates to safety and/or reliability and/or maintenance as it involves performing SCADA Corrective Maintenance to RTUs, SCADA Transmitters and ERXs.

 MAT FHQ – Over Pressure Protection (OPP) Enhancements – Includes: installation of pilot filters, system planning studies to identify the most effective secondary OPP option, revision of standard and procedures, program management for developing and maintaining the over pressure elimination plan and pilot studies on new equipment technologies for applicability to the PG&E system.

This program relates to safety and/or reliability and/or maintenance as it includes installation of pilot filters, system planning studies to identify the most effective secondary OPP option, revision of standard and procedures, program management for developing and maintaining the over pressure elimination plan, and pilot studies on new equipment technologies for applicability to the PG&E system.

MAT FHR – Distribution Pipeline Markers – Perform patrols on distribution mains.

This MAT relates to safety and/or reliability and/or maintenance as it includes performing patrols on distribution mains.

MAT FHS – GD One-Time Non-Recur Exp Projects – Includes one-time non-recurring maintenance projects. This work includes re-dig validations for missing documentation, map corrections or unmapped assets.

This MAT relates to safety and/or reliability and/or maintenance as this work includes non-recurring maintenance projects driven by investigations and also includes validations performed for documentation and mapping purposes.

MAT FH# – Preventative Maintenance, Other – Includes field support costs.

This MAT relates to safety and/or reliability and/or maintenance as it includes compliance support costs for MWC FH Preventative Maintenance.

MAT FIB – Corrective Maintenance, Gas Regulator Station – Maintain and repair failed or inoperative distribution district regulation equipment. Does not include: repair of SCADA equipment at a district regulator station; corrective paint work; or repairs for vault lids or station fencing.

This program relates to safety and/or reliability and/or maintenance as it involves maintaining and repairing failed or inoperative distribution district regulation equipment.

MAT FIC – Corrective Maintenance, Gas Farm Tap – Perform repairs on customer HPR sets.

This program relates to safety and/or reliability and/or maintenance as it involves performing repairs on customer HPR sets.

MAT FIF – Corrective Maintenance, Gas Main Valves – Includes replacing valves less than 2 inches and repairing all distribution main valves.

This program relates to safety and/or reliability and/or maintenance as it includes replacing valves less than 2 inches and repairing distribution main valves.

MAT FIG -Main Leak Repair – Expense repair of non-dig-in leaks less than 100 feet on any distribution main and appurtenances (flanges, valves, etc.). Includes leak pinpointing. Includes repair of service leak by replacing a portion of main (100 feet or less). Includes repair of leak on existing cut-off service tee (24 inches or less). Does not include: If a suspected leak is excavated and downgraded to a 3 or 0 that will not be repaired, non-PG&E gas, and if service tee is cut off within 12 inches of main and no service exists. Below ground Grade 3 leak repairs are recorded under Leak Abatement MAT LWG.

This program relates to safety and/or reliability and/or maintenance as it involves expense repairs of non-dig-in leaks less than 100 feet on any distribution main and appurtenances (flanges, valves, etc.). It includes leak pinpointing, repair of service leak by replacing a portion of main (100 feet or less), and repair of leak on existing cut-off service tee (24 inches or less).

MAT FIH – Gas Service Leak Repair, Above Ground – Leak pin-pointing and repair of non-dig-in leaks below the service valve on the above ground portion of the service. Does not include: If a suspected leak is excavated and downgraded to a 3 or 0 that will not be repaired, or non-PG&E gas.

This program relates to safety and/or reliability and/or maintenance as it includes leak pin-pointing and repair of non-dig-in leaks below the service valve on the above ground portion of the service.

MAT FII – Corrective Maintenance, CP – Includes: repair existing anodes or rectifiers; dig up gas facilities to install insulating material; install new anodes

on isolated steel as necessary; install an ETS; restore a down CPA without replacing capital plant. Does not include: any CP remediation or restoration activities.

This program relates to safety and/or reliability and/or maintenance as it relates to restoring a down CPA, which may include: (1) repairing existing anodes or rectifiers; (2) digging up gas facilities to install insulating material or clear an underground contact; (3) installing new anodes on isolated steel as necessary; (4) installing an ETS.

MAT FIJ – Main Dig-In Repair – Expense repair of dig-in leaks and other third-party damage to any distribution main and appurtenances (flanges, valves, etc.).

This program relates to safety and/or reliability and/or maintenance as it involves expense repairs of dig-in leaks and other third-party damage to any distribution main and appurtenances (flanges, valves, etc.).

MAT FIK – Service Dig-In Repair – Expense repair of dig-in leaks and other third-party damage to any service (including curb valves).

This program relates to safety and/or reliability and/or maintenance as it involves expense repairs of dig-in leaks and other third-party damage to any service (including curb valves).

MAT FIM –Major Event – Includes gas major events and also emergencies.

This program relates to safety and/or reliability and/or maintenance as it involves work in response to gas major events and emergencies.

MAT FIO – Encroachment Program (formerly Overbuild) – Relocation of partial gas service and/or main (less than 100 feet) due to encroachment condition.

This program relates to safety and/or reliability and/or maintenance as it involves the relocation of a partial gas service and/or main (less than 100 feet) due to encroachment conditions.

MAT FIP – Service Leak Repair, Below Ground – Leak pinpointing and repair of non-dig in leak on below ground section of any service (includes curb valves) from tee to where riser breaks ground. Includes: (1) above ground leak that requires below ground repair (i.e., must replace section of below ground pipe or riser); and (2) riser replacement including section of below ground service. Does not include if a suspected leak is excavated and downgraded to a

3 or 0 or non-PG&E gas. Below ground Grade 3 leak repairs are recorded under Leak Abatement MAT LWH.

This program relates to safety and/or reliability and/or maintenance as it involves leak pinpointing and repair of non-dig in leak on below ground section of any service (includes curb valves) from tees to where risers breaks ground. It includes: (1) above ground leak that requires below ground repair (i.e., must replace section of below ground pipe or riser); and (2) riser replacement including section of below ground service.

MAT FIQ – AC Monitoring – Inspect atmospherically risers, customer gas regulators (including HPRs), and meter sets for AC where not completed by routine leak survey work.

This program relates to safety and/or reliability and/or maintenance as it involves inspecting atmospherically risers, customer gas regulators (including HPRs), and meter sets for AC where not completed by routine leak survey work.

MAT FIR – Tee-Cap Replacement Program – Projects specified by the plastic tee cap repair team to lower risks in the plastic system.

This program relates to safety and/or reliability and/or maintenance as it involves projects specified by the plastic tee cap repair team to lower risks in the plastic system.

MAT FIS – Leak Survey Meter Repair – Scheduled repair of non-hazardous gas leaks at the meter set. Does not include: (1) hazardous gas leak repair at the meter set initiated by Leak Survey; (2) customer generated field orders for gas leak investigation; (3) repair or replacement of gas valve; (4) replacement of gas regulators; (5) meter replacement; and (6) leak surveys performed by Leak Surveyors.

This program relates to safety and/or reliability and/or maintenance as it involves scheduled repair of non-hazardous gas leaks at the meter set.

MAT FI# – Gas Corrective Maintenance, Other – This includes support costs for Gas Corrective Maintenance including leak repair support.

This MAT relates to safety and/or reliability and/or maintenance as it includes support costs for MWC FI Gas Corrective Maintenance.

MAT GFO – Mapping Support – Includes: (1) distribution mapping activities not directly charged to orders such as posting obsolete orders, delineations, data management non-posting and map reprographics, annexations, posting

corrections, operating maps and diagrams, asset registry and request for work, Corrective Action Program (CAP) mapping and information and data requests; and (2) special distribution mapping projects.

This program relates to safety and/or reliability and/or maintenance as it includes: (1) distribution mapping activities not directly charged to orders such as posting obsolete orders, delineations, data management non-posting and map reprographics, annexations, posting corrections, operating maps and diagrams, asset registry and request for work, CAP mapping and information and data requests; and (2) special distribution mapping projects.

MAT GFQ – GT&D Data Management – Includes Gas Distribution data management expense for gas data stewardship, data quality improvement, and program implementation.

This program relates to safety and/or reliability and/or maintenance as it includes Gas Distribution and Transmission data management expenses including gas data stewardship, data quality improvement, and program implementation for data assets under the Data Asset Family management.

MAT GGA – Gas System Planning – Perform hydraulic analysis on gas distribution systems to support operations and long-term design. Build and maintain computer models of the gas distribution system.

This program relates to safety and/or reliability and/or maintenance as it involves performing hydraulic analysis on gas distribution systems to support operations and long-term design. It also includes building and maintaining computer models of the gas distribution system.

MAT GG# – Gas Distribution Portfolio Management and Engineering – Preliminary engineering prior to determining the type of work (install vs. repair) to be performed, such as, defining economic alternatives, field checking of asset conditions, approximate scope/cost of work, and economic analysis.

This MAT relates to safety and/or reliability and/or maintenance as it includes support costs for gas distribution pre-engineering and scoping activities.

MAT GMC – CNG Station Expense – Corrective and Preventative Maintenance on CNG Stations.

This program relates to safety and/or reliability and/or maintenance as it involves maintenance and operating expenditure for CNG Stations.

MAT HY# - Gas Meter Maintenance - Meter Sets – Includes other support costs related to Gas meter maintenance. This MAT relates to safety and/or reliability and/or maintenance as it includes support costs for MWC HY Meter Set AC Remediation.

MAT HYI – Meter Set AC Remediation – Perform remediation of AC on customer gas meters and regulators as identified through AC inspection. Does not include: (1) AC inspection; (2) AC repair on HPRs; (3) AC repair on distribution mains, services, valves, etc.; (4) meter replacement; and (5) regulator replacement.

This program relates to safety and/or reliability and/or maintenance as it involves performing remediation of AC on customer gas meters and regulators as identified through AC inspection.

MAT JQA - DIMP Leak Survey - Leak survey enhancements.

This program relates to safety and/or reliability and/or maintenance as it involves system integrity leak surveys.

MAT JQC – Damage Prevention Dig-In Reduction Team (DiRT) – Costs associated with the DiRT. The costs include investigations of dig-ins, documentation of damage incidents, 811 outreach and education, 811 Ambassador program management and response and other damage prevention activities by DiRT Members. These damage prevention activities include: field contacts at excavation sites, follow-up on reports of unsafe excavation activities and meetings with excavators. Also, costs associated with the ticket management system (i.e., licensing fees, data storage and required formatting changes).

See MWC DF Locate and Mark for how this MAT relates to safety and/or reliability and/or maintenance.

MAT JQD – DIMP Emergent Work – Emergent work associated with operational events and risk mitigation activities identified by the DIMP.

This program relates to safety and/or reliability as it manages and executes the DIMP emergent work.

MAT JQE – Plastic Program – Supports the selection, testing and development of plastic materials, tools, and associated construction methods for use on the distribution system. Also includes: laboratory testing, sample material, and prototype tools and equipment purchases.

This program relates to safety and/or reliability and/or maintenance as it oversees selection, testing and development of plastic materials, tools, and associated construction methods for use on the PG&E distribution system. It also includes laboratory testing, sample material, and prototype tools and equipment purchases.

MAT JQG – Mechanical Fitting Replacement Program – Replacement program for removal of mechanical fittings with known failures. Includes removal of compression style mechanical fittings with risk of corrosion and leak.

This program relates to safety and/or reliability as it replaces mechanical fittings with known failures, including the removal of compression style mechanical fittings with risk of corrosion and leaks.

MAT JQK – Cross Bore Program – Includes: research of records, create and execute legacy storm and sewer inspections, and repair costs to remove legacy cross bores. It does not include replacement of gas pipe beyond the cross bore segment.

This program relates to safety and/or reliability as it involves conducting storm and sewer inspections, repair costs to remediate cross bores, and records research.

MAT JQL – DIMP Program Management – Costs for DIMP staff.

This program relates to safety and/or reliability and/or maintenance as it involves costs by DIMP for Geosciences

MWC OM – Operational Management – includes labor and employee-related costs to provide supervision and management support.

MWC OM also includes costs incurred by the administrative staff working for the Supervisors/Managers.

MWC OM is included as a maintenance activity in accordance with D.19-04-020. Gas Distribution does not consider MWC OM as related directly to safety and/or reliability and/or maintenance work.

H. Gas Distribution MAT Descriptions for Safety and Reliability Work – Capital

For descriptions of how the following Gas Distribution capital programs relate to safety, reliability, or maintenance, please see the MAT descriptions which explain the type of work associated with each MAT below.

MAT 14A – GPRP – Replace main and services qualifying for replacement under the GPRP. Does not include: deactivation with no capital main installation less than 100 feet.

This program relates to safety and/or reliability as it involves replacing main and services qualifying for replacement under the GPRP.

MAT 14B – Copper Service Replacement – Replace copper services identified under the CSRP. Going forward, outstanding copper services work and emergent copper services work will be completed under Reliability Service Replacement MAT 50B.

This program relates to safety and/or reliability and/or maintenance as it historically involved replacing copper services identified under the CSRP. Going forward, outstanding copper services work and emergent copper services work will be completed under Reliability Service Replacement MAT 50B.

MAT 14D – Plastic Pipe Replacement – Replace main and services qualifying for replacement under the Plastic Pipeline Replacement Program. Does not include: deactivation with no capital main installation less than 100 feet.

This program relates to safety and/or reliability and/or maintenance as it involves replacing main and services qualifying for replacement under the Plastic Pipeline Replacement Program.

MAT 27A – Meter Protection-Capital – Includes: (1) meters that cannot be adequately protected by barrier posts and require relocation with re-running the service from the main; and (2) services with inaccessible service valves that require re-running the service from the main. Does not include: minor relocations or service valve installations that do not require re-running the service from the main.

This program relates to safety and/or reliability and/or maintenance as it includes: (1) meters that cannot be adequately protected by barrier posts and require relocation with re-running the service from the main, and (2) services with inaccessible service valves that require re-running the service from the main.

MAT 31A - CNG Stations - Capital work on CNG stations.

This program relates to safety and/or reliability and/or maintenance as it involves capital work to replace obsolete equipment that no longer can meet the demands of the station or is not in acceptable working condition.

MAT 4AF – ERX Pressure Monitoring, SCADA Type 6 – Includes regulator station, Hydraulically Independent System (HIS) pipeline or valve pressure, and ERX pressure monitoring.

This program relates to safety, reliability, and compliance as it involves electronic recorder pressure monitoring. includes regulator stations, HIS pipeline or valve pressure.

MAT 4AM¹¹ – Regulator Station Monitoring Dual No Flow, SCADA

Type 3 – High and low regulator station monitoring-dual run: includes upstream, midstream, downstream pressure, differential pressure, and flow.

This program relates to safety and/or reliability and/or maintenance as it involves high- and low-pressure regulator station monitoring (dual run). It includes upstream, midstream, downstream pressure, differential pressure, and flow.

MAT 47B – Gas Capacity, Mains – Installation of gas main to provide additional capacity.

This program relates to safety and/or reliability and/or maintenance as it involves installation of gas main to provide additional capacity.

MAT 47C – Gas Capacity, Regulator Station – Installation of new district regulator station to provide additional capacity (including cost to install SCADA).

This program relates to safety and/or reliability and/or maintenance as it involves installation of new district regulator station to provide additional capacity (including cost to install SCADA).

MAT 47D – Gas Capacity, Replace Regulator Station Component – Install or replace gas regulation equipment at an existing district regulator station to provide additional capacity. Includes valves, filters, regulators, and other capital equipment within the station.

¹¹ In the 2023 GRC, PG&E presented the recorded and forecast costs formerly presented under 10 separate MATs (4AA, 4AB, 4AC, 4AE, 4AH, 4AI, 4AJ, 4AK, 4AL, and 4AM) under a single MAT, 4AM.

This program relates to safety and/or reliability and/or maintenance as it involves installation or replace gas regulation equipment at an existing district regulator station to provide additional capacity.

MAT 47F – Gas Capacity, Other Enhancements – Install or replace facility for capacity.

This program relates to safety and/or reliability and/or maintenance as it involves installing or replacing a facility for capacity.

MAT 50A – Reliability Main Replacement – Replace/install greater than or equal to 100 feet of gas distribution main due to deterioration or reduced reliability, and includes non-leak replacements driven by corrosion. Does not include: deactivation of main, shallow mains and services, and if the condition was caused by work or alteration by a customer/third party.

This program relates to safety and/or reliability and/or maintenance as it involves replacing and/or installing greater than or equal to 100 feet of gas distribution main due to deterioration or reduced reliability.

MAT 50B – Reliability Service Replacement – Includes: (1) replace entire service due to deterioration or reduced reliability including non-leak replacements driven by corrosion; and (2) re-establishing an existing electronic recorder to a service that is being replaced. Does not include: capital service leak repairs, opportunistic service replacements, idle stub cut-offs, shallow services, if the condition was caused by work or alteration by a customer/third party, or new installations of ERXs.

This program relates to safety and/or reliability and/or maintenance as it includes replacing an entire service due to deterioration or reduced reliability.

MAT 50C – Gas Regulator Station Rebuild – Includes: replacement of an entire district regulator station due to deterioration or reduced reliability, and to upgrade configuration to meet current standards and system needs.

This program relates to safety and/or reliability and/or maintenance as it includes replacement of an entire district regulator station due to deterioration or reduced reliability, and to upgrade configuration to meet current standards and system needs.

MAT 50D – Impr Rel/Dep Gas CP Systems – Includes: (1) installation of five or more ETS stations at a single location; (2) rectifier replacement, including

insert, or new installation; (3) pipe coating greater than or equal to 100 feet, and Remote Monitoring Units (RMUs).

This program relates to safety and/or reliability and/or maintenance as it includes installation of five or more test stations, rectifier replacement (inserts and new installations), capital coating projects, RMUs installations.

MAT 50E – Reliability Gas Valve Replacement – Includes: replace/install gas distribution valves greater or equal to two inches (e.g., emergency shutdown, riser valves two inches or greater, and therm billing area valves). Does not include station fire valve or block valve replacement.

This program relates to safety and/or reliability and/or maintenance as it includes replacing or installing gas distribution valves greater or equal to two inches (e.g., emergency shutdown, riser valves two inches or greater, and therm billing area valves).

MAT 50F – Reliability Gas Other Equipment Replacement – Includes: replace/install/deactivate other units of gas capital (e.g., permanent pressure recorders, new pits/vaults, and all deactivation-only jobs for CP systems). Does not include partial pit/vault rebuilds and/or lids only.

This program relates to safety and/or reliability and/or maintenance as it includes: (1) replacing, installing, or deactivating other units of gas capital; (2) permanent pressure recorders and new pits or vaults; and (3) all deactivation-only jobs for CP systems.

MAT 50G – Leak Management – Simple Service Replacement – Replace/deactivate entire or stub services due to leaks, not due to idle facilities or "dig-ins." Below ground Grade 3 leak replacements are recorded under Leak Abatement MAT 3PB.

This program relates to safety and/or reliability and/or maintenance as it includes replacement or deactivation of an entire stub or stub service due to leaks that are not due to idle facilities or dig-ins.

MAT 50H – Reliability, Cut-Off Idle Gas Service – Remove/deactivate entire or stub services due to idle facilities and not due to leaks, overbuilds, "dig-ins," or demolitions. Does not include capital work for demolition.

This program relates to safety and/or reliability and/or maintenance as it involves removal or deactivation of an entire service or stub services due to idle facilities and not due to leaks, overbuilds, dig-ins, or demolitions.

MAT 50I – Improve Reliability – Deactivation – Deactivate gas mains (and the associated services), regulator stations, or valves. Does not include new mains limited to less than 100 feet; those with greater than or equal to 100 feet or gas service deactivations with no main deactivation.

This program relates to safety and/or reliability and/or maintenance as it involves deactivation of gas main (and the associated services), regulator stations, or valves.

MAT 50J – Encroachment Program – Relocation/rearrangement of gas main (greater than 100 continuous feet) and/or complete gas service replacement to clear encroachment conflicts. Does not include customer requested relocations to clear encroachment.

This program relates to safety and/or reliability and/or maintenance as it involves relocation or rearrangement of a gas main (greater than 100 continuous feet) and/or complete gas service replacement to clear encroachment conflicts.

MAT 50K – Emergent Leaking Main Replacement – Replace/install greater than or equal to 100 feet of gas distribution main due to leaks. Does not include: Deactivation of main only jobs.

This program relates to safety and/or reliability and/or maintenance as it involves replacement or installation of greater than or equal to 100 feet of gas distribution main due to leaks.

MAT 50L – Gas Regulator Station Component Rebuilds – Replacement of regulator station components due to deterioration or reduced reliability.

This program relates to safety and/or reliability and/or maintenance as it involves replacement of regulator station components due to deterioration or reduced reliability.

MAT 50M – Leak Management – Complex Service Replacements – Replace/deactivate entire or stub complex services due to leaks, not due to idle facilities or "dig-ins." Also includes large commercial meter sets, and any complex load calculations that require Gas Distribution Engineering and Design. Below ground Grade 3 leak replacements are recorded under Leak Abatement MAT 3PC.

This program relates to safety and/or reliability and/or maintenance as it involves replacement or deactivation of an entire or stub complex services due to leaks not due to idle facilities or dig-ins. It also includes large commercial

meter sets, and any complex load calculations that require Gas Distribution Engineering and Design.

MAT 50N – GD Overpressure Protection Enhancements – Includes: the retrofit of high-pressure and low-pressure district regulator stations with OPP modifications. These additional devices may include slam shuts valves, monitor valves, relief valves, or alternate technologies to prevent overpressure events from occurring; and installation of pressure transmitters system wide for enhanced visibility.

This program relates to safety and/or reliability and/or maintenance as it includes the retrofit of high-pressure and low-pressure district regulator stations with OPP modifications. These additional devices may include slam shuts devices, monitor valves, relief valves, or alternate technologies to prevent overpressure events from occurring; and installation of pressure transmitters system wide for enhanced visibility.

MAT 50P – New/Replace CP System – Installation of impressed current ground bed, deep or shallow.

This program relates to safety and/or reliability and/or maintenance as it involves installation of impressed current ground bed, deep or shallow.

MAT 50Q – Casings – Casing removal or remediation > 100 feet. This may involve replacing end seals, removing segments of the casing, replacing link seals and insulation spacers, flushing, and draining casings, repairing coatings, and gelling the casing after site restoration. A casing project is considered capital if a casing greater than 100 feet in length is mitigated and successfully gelled or if a casing of any length is removed.

This program relates to safety and/or reliability and/or maintenance as it involves work related to Casing removal or remediation.

MAT 50R - Rep/Inst Emer Shut down and Safe Operations Valves – Install gas distribution valves greater than or equal to 2 inches on new installations. (e.g., emergency shutdown, riser valves 2 inches or greater).

This program relates to safety and/or reliability and/or maintenance as it involves work related to installation of gas distribution valves during an emergency shutdown.

MAT 52# - Emergency Response Support - Includes support work and materials required to replace damaged or failed facilities.

This program relates to safety and/or reliability and/or maintenance as it involves work related to emergency response support required to replace damaged or failed facilities.

MAT 52B - Emergency Response to Dig-Ins, Services -

 Replace/deactivate entire or stub services due to "dig-in," outside forces, or third-party damage. Also, includes service cut-offs due to emergencies (e.g., due to fire).

This program relates to safety and/or reliability and/or maintenance as it involves replacing or deactivating an entire service or stub services due to "dig-ins," outside forces, or third-party damage. It also includes service cut-offs due to emergencies (e.g., due to fire).

MAT 52C – Emergency Response to Dig-Ins, Mains – Replace greater than or equal to 100 feet gas distribution main due to dig-in or damage by outside forces or third party. Deactivate greater than or equal to 1-foot gas distribution main due to dig-in or damage by outside forces.

This program relates to safety and/or reliability and/or maintenance as it involves replacing greater than or equal to 100 feet gas distribution main due to dig-ins, damage by outside forces, or third parties. It also includes deactivations of greater than or equal to 1-foot gas distribution main due to dig-ins or damage by outside forces.

MAT 74A – Gas Regulator Replacement – Labor to replace failed or deteriorating residential and non-residential regulators while performing routine maintenance or other field activity. Includes targeted regulator replacement programs and filter replacement with regulator replacement for large meter work 2 inches and greater. Does not include: (1) regulator replacement in conjunction with a meter set, (2) the cost of the regulator; (3) HPR replacement; (4) distribution district regulation equipment; and (5) replacement of strainer.

This program relates to safety and/or reliability and/or maintenance as it involves labor to replace failed or deteriorating residential and non-residential regulators while performing routine maintenance or other field activity. It includes targeted regulator replacement programs and filter replacement with regulator replacement for large meter work two inches and greater.

1 I. Gas Distribution Comparison by MAT for Non-Safety, Reliability, and Maintenance Work Tables

TABLE 2-5
2023 RSAR
2023 GRC CYCLE GAS DISTRIBUTION EXPENSE COMPARISON BY MAT FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

	Α	В	C1	C2	C3	C4	C5	C6	C7	D	Е	F	G	Н	I	J
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
1	O&M Expense	Gas Distribution	AB	Misc Expense	AB7	Safety, Qual, & Contract Mgmt	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 13	No	On-going	Annual	531.1	285.9	(245.2)	-46.2%
2	O&M Expense	Gas Distribution	AB	Misc Expense	AB#	Not assigned	Non-SRM Total	Non-SRM Total	Ex 3, Ch 13	No	On-going	Annual	45,966.9	7,349.9	(38,617.0)	-84.0%
3	O&M Expense O&M	Gas Distribution	AB	Misc Expense	AB#	Not assigned	Loss of Containment on Gas Customer Connected Equipment Non-SRM Total (Non-	CCEPQ-C012 Other Support Non-SRM Total (Non-	Ex 3, Ch 13	No	N/A	N/A	45,966.9	7,349.9	(38,617.0)	-84.0%
4	Expense	Gas Distribution	ВС	Perf Reimburs Wk for Oth	BC#	Not assigned	RAMP)	RAMP)	N/A	No	On-going	Annual	0.0	(49.5)	(49.5)	100.0%
5	O&M Expense	Gas Distribution	DN	Develop & Provide Trainng	DN2	Gas Qualifications	Non-SRM Total	Non-SRM Total	Ex 3, Ch 13	No	On-going	Annual	2,726.3	606.0	(2,120.3)	-77.8%
6	O&M Expense	Gas Distribution	DN	Develop & Provide Training	DN2	Gas Qualifications	Loss of Containment on Gas Customer Connected Equipment	CCEPQ-C014 Training, Gas Qualifications	Ex 3, Ch 13	No	N/A	N/A	2,726.3	606.0	(2,120.3)	-77.8%
7	O&M Expense	Gas Distribution	GZ	Research and Development (R&D)	GZA	Gas R&D and Deployment	Non-SRM Total	Non-SRM Total	Ex 3, Ch 13	No	On-going	Annual	4,000.3	2,130.1	(1,870.3)	-46.8%
8	O&M Expense	Gas Distribution	GZ	R&D	GZA	Gas R&D and Deployment	Loss of Containment on Gas Customer Connected Equipment		Ex 3, Ch 13	No	N/A	N/A	4,000.3	2,130.1	(1,870.3)	-46.8%
9	O&M Expense	Gas Distribution	GZ	R&D	GZA	Gas R&D and Deployment	Loss of Containment on Gas Distribution Main or Service	LOCDM-C016 Gas R&D and Deployment	Ex 3, Ch 13	No	N/A	N/A	4,000.3	2,130.1	(1,870.3)	-46.8%
10	O&M Expense	Gas Distribution	JV	Maintain IT Apps & Infra	JVA	ISvcs: Wrkplce End User SW Ste	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 12	No	On-going	Annual	12,200.6	3,672.8	(8,527.9)	-69.9%
11	O&M Expense	Gas Distribution	JV	Maintain IT Apps & Infra	JVT	ASvcs: Applications Support	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 12	No	On-going	Annual	0.0	1,671.4	1,671.4	100.0%
12	O&M Expense	Gas Distribution	JV	Maintain IT Apps & Infra	JV#	Not assigned	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 12	No	On-going	Annual	1,285.6	417.0	(868.6)	-67.6%
13	O&M Expense	Gas Distribution	LK	G Dist WRO - Maintenance	LK7	WRO Main Relocations - G	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	1,828.6	3,290.3	1,461.7	79.9%
14	O&M Expense	Gas Distribution	LK	G Dist WRO - Maintenance	LK8	WRO Relocation Partial Svc - G	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	1,135.3	2,668.4	1,533.1	135.0%
15	O&M Expense	Gas Distribution	LK	G Dist WRO - Maintenance	LK9	WRO Raise Frame & Covers - G	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	559.8	315.6	(244.2)	-43.6%
16	O&M Expense	Gas Distribution	LK	G Dist WRO - Maintenance	LKL	WRO Svc Cutoff at Prop Line - G	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	324.8	271.1	(53.7)	-16.5%
17	O&M Expense	Gas Distribution	LK	G Dist WRO - Maintenance	LKN	WRO Rule 13 G Temp Pwr < 1yr G	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	0.0	0.0	0.0	89.2%
18	O&M Expense	Gas Distribution	LK	G Dist WRO - Maintenance	LKO	WRO Pothole 3rd Pty Conflict-G	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	1,203.4	619.8	(583.7)	-48.5%
19	O&M Expense	Gas Distribution	LK	G Dist WRO - Maintenance	LKQ	WRO Gas Sup & Wk Around SF - G	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	1,950.0	1,651.8	(298.2)	-15.3%
20	O&M Expense	Gas Distribution	LK	G Dist WRO - Maintenance	LK#	Not assigned	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	186.9	481.2	294.3	157.4%
21	O&M Expense	Gas Distribution	os	Operational Support	OS#	Not assigned	Non-SRM Total (Non- RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 13	No	On-going	Annual	27,379.6	14,149.4	(13,230.2)	-48.3%

TABLE 2-6
2023 RSAR
2023 GRC CYCLE GAS DISTRIBUTION CAPITAL COMPARISON BY MAT FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

	Α	В	C1	C2	C3	C4	C5	C6	C7	D	Е	F	G	Н		J
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
1	Capital	Gas Distribution	05	Tools & Equipment	05A	Tools	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 13	No	On-going	Annual	6,763.0	4,324.0	(2,439.0)	-36.1%
2	Capital	Gas Distribution	29	G Dist Customer Connects	29C	NB-G-Res Svc R16 Only	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	9,465.0	16,500.0	7,035.0	74.3%
3	Capital	Gas Distribution	29	G Dist Customer Connects	29D	NB-G-CIA R15 and/or R16 MLX	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	15,665.0	22,267.0	6,602.0	42.1%
4	Capital	Gas Distribution	29	G Dist Customer Connects	29H	29H-G-Res R15/R16 MLX 1-4 Lots	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	4,184.0	144.0	(4,040.0)	-96.6%
5	Capital	Gas Distribution	29	G Dist Customer Connects	291	NB-G-Res R15/16 MLX - Apts	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	4,213.0	4,270.0	57.0	1.4%
6	Capital	Gas Distribution	29	G Dist Customer Connects	29J	NB-G-Res R15/16 MLX >=5 lots	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	23,257.0	36,046.0	12,789.0	55.0%
7	Capital	Gas Distribution	29	G Dist Customer Connects	29M	Prod Subdiv Res Svc Comp - G	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	10,199.0	15,028.0	4,829.0	47.3%
8	Capital	Gas Distribution	29	G Dist Customer Connects	29#	Not assigned	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non- RAMP)	Ex 3, Ch 14	No	On-going	Annual	5,018.0	7,435.0	2,417.0	48.2%
9	Capital	Gas Distribution	2F	Build IT Apps & Infra	2FA	ASvcs: Development	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 3, Ch 12	No	On-going	Annual	12,365.0	15,188.0	2,823.0	22.8%
10	Capital	Gas Distribution	51	G Dist WRO	51E	WRO Relocate Mn & Svcs - G	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non- RAMP) Non-SRM Total (Non-	Ex 3, Ch 14	No	On-going	Annual	40,335.0	23,859.0	(16,476.0)	-40.8%
11	Capital	Gas Distribution	51	G Dist WRO	51F	WRO Svc Only Alteration - G WRO Gas Svc Cutoff	Non-SRM Total (Non-RAMP) Non-SRM Total	Non-SRM Total (Non- RAMP) Non-SRM Total (Non-	Ex 3, Ch 14	No	On-going	Annual	11,174.0	17,403.0	6,229.0	55.7%
12	Capital	Gas Distribution	51	G Dist WRO	51G	at Main - G WRO Remove Idle	(Non-RAMP) Non-SRM Total	RAMP) Non-SRM Total (Non-	Ex 3, Ch 14	No	On-going	Annual	15,942.0	23,987.0	8,045.0	50.5%
13	Capital	Gas Distribution	51	G Dist WRO	511	Main >100' - G WRO Relocate CP	(Non-RAMP) Non-SRM Total	RAMP) Non-SRM Total (Non-	Ex 3, Ch 14	No	On-going	Annual	2,163.0	1,874.0	(289.0)	-13.4%
14	Capital	Gas Distribution	51	G Dist WRO		Area/Reg Sta-G WRO G CAP	(Non-RAMP) Non-SRM Total	RAMP) Non-SRM Total (Non-	Ex 3, Ch 14	No	On-going	Annual	831.0	1,705.0	874.0	105.2%
15	Capital	Gas Distribution	51	G Dist WRO		Proj>\$50K 3rd Party WRO Pd.on	(Non-RAMP) Non-SRM Total	RAMP) Non-SRM Total (Non-	Ex 3, Ch 14	No	On-going	Annual	4,863.0	20.0	(4,843.0)	-99.6%
16	·	Gas Distribution	51	G Dist WRO		Actuals	(Non-RAMP) Non-SRM Total	RAMP) Non-SRM Total (Non-		No	On-going	Annual	277.0	1,933.0	1,656.0	597.8%
17	·	Gas Distribution	51	G Dist WRO		Not assigned	(Non-RAMP) Non-SRM Total	RAMP) Non-SRM Total (Non-		No	On-going	Annual	(742.0)	1,111.0	1,853.0	-249.7%
18	Capital	Gas Distribution	78	Manage Buildings	78A	Office Facilities	(Non-RAMP)	RAMP)	Ex 3, Ch 13	No	On-going	Annual	0.0	7.0	7.0	100.0%

1 J. GT&S Comparison Summary Tables

TABLE 2-7 2023 RSAR 2023 GRC CYCLE GT&S EXPENSE COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	O&M Expense	GT&S	Maint Gas Trans-Subsid	34	2,738.3	2,090.9	(647.4)	-23.6%
2	O&M Expense	GT&S	Misc Expense	AB	20,062.5	10,713.1	(9,349.4)	-46.6%
3	O&M Expense	GT&S	Maint Gas Storage Fac	AH	21,521.5	13,554.5	(7,967.0)	-37.0%
4	O&M Expense	GT&S	Manage Environmental Oper	AK	3,157.3	3,760.4	603.1	19.1%
5	O&M Expense	GT&S	GT Operate System	CM	43,454.2	49,298.4	5,844.2	13.4%
6	O&M Expense	GT&S	Mnge Waste Disp & Transp	CR	716.5	644.5	(72.0)	-10.1%
7	O&M Expense	GT&S	GT Marketing/Sales/Strategy	CX	5,786.8	6,171.8	385.0	6.7%
8	O&M Expense	GT&S	G&E T&D Locate and Mark	DF	6,767.0	5,876.5	(890.5)	-13.2%
9	O&M Expense	GT&S	Develop & Provide Training	DN	1,931.8	567.8	(1,364.0)	-70.6%
10	O&M Expense	GT&S	Gas Trans & Dist Sys Mapping	GF	5,563.2	3,470.7	(2,092.5)	-37.6%
11	O&M Expense	GT&S	Gas Transmission Mitigate Corr	GJ	24,485.2	17,026.2	(7,459.0)	-30.5%
12	O&M Expense	GT&S	Manage Energy Efficiency-NonBA	GM	2,650.8	3,617.0	966.2	36.4%
13	O&M Expense	GT&S	R&D Non-Balancing Account	GZ	3,861.2	1,402.8	(2,458.4)	-63.7%
14	O&M Expense	GT&S	CGT Balancing Accounts	HP	239,910.2	240,518.5	608.3	0.3%
15	O&M Expense	GT&S	GT Pipeline Maintenance	JO	39,076.6	25,653.6	(13,422.9)	-34.4%
16	O&M Expense	GT&S	GT Station Maintenance	JP	24,953.1	25,824.7	871.6	3.5%
17	O&M Expense	GT&S	GT Reliability & General Maint	JT	101,236.3	55,382.8	(45,853.5)	-45.3%
18	O&M Expense	GT&S	Maintain IT Apps & Infra	JV	3,203.2	3,495.8	292.6	9.1%
19	O&M Expense	GT&S	GT PL Safety Enhance Plan-Exp	KE	0.0	207.4	207.4	100.0%
20	O&M Expense	GT&S	GTS Manage Critical Documts-BA	LU	0.0	467.7	467.7	100.0%
21	O&M Expense	GT&S	GTS Station Assessments-BA	LV	5,474.2	3,063.5	(2,410.7)	-44.0%
22	O&M Expense	GT&S	Operational Management	OM	8,663.8	3,708.9	(4,954.8)	-57.2%
23	O&M Expense	GT&S	Operational Support	os	10,400.5	(5,176.2)	(15,576.7)	-149.8%
24	O&M Expense	GT&S	TOTAL		575,614.2	471,341.3	(104,272.9)	-18.1%

TABLE 2-8 2023 RSAR 2023 GRC CYCLE GT&S CAPITAL COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	Capital	GT&S	Tools & Equipment	05	3,502.2	445.4	(3,056.8)	-87.3%
2	Capital	GT&S	Implement Environment Projects	12	0.0	891.6	891.6	100.0%
3	Capital	GT&S	Misc Capital	21	0.0	2,914.9	2,914.9	100.0%
4	Capital	GT&S	GT Customer Connects	26	8,858.0	405.4	(8,452.6)	-95.4%
5	Capital	GT&S	Build IT Apps & Infra	2F	12,988.4	11,895.0	(1,093.4)	-8.4%
6	Capital	GT&S	GT PL Safety Enhance Plan-Cap	2H	0.0	25.3	25.3	100.0%
7	Capital	GT&S	Gas Trans Remediate Corrosion	3K	44,732.8	35,714.1	(9,018.7)	-20.2%
8	Capital	GT&S	Gas Trans Storage Wells	3L	87,630.0	115,635.9	28,005.9	32.0%
9	Capital	GT&S	Gas Capital:GasTrans-Sub	44	3,242.6	434.2	(2,808.4)	-86.6%
10	Capital	GT&S	GT Pipeline Capacity	73	12,231.2	30,505.3	18,274.1	149.4%
11	Capital	GT&S	GT Pipeline Reliability	75	373,015.3	189,478.7	(183,536.6)	-49.2%
12	Capital	GT&S	GT Station Reliability	76	193,484.6	136,834.6	(56,650.0)	-29.3%
13	Capital	GT&S	Manage Buildings	78	0.0	846.0	846.0	100.0%
14	Capital	GT&S	GT WRO	83	17,880.8	9,044.3	(8,836.5)	-49.4%
15	Capital	GT&S	GT Gas Gathering System Manage	84	12,290.6	3,283.2	(9,007.4)	-73.3%
16	Capital	GT&S	GT Integrity Management	98	61,141.6	145,155.5	84,013.9	137.4%
17	Capital	GT&S	TOTAL		830,998.1	683,509.5	(147,488.6)	-17.8%

1 K. GT&S Comparison by MAT for Safety, Reliability, and Maintenance Work Tables

TABLE 2-9
2023 RSAR
2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

	1 1		_					1					Connelli	D	. 1				1		ı				-	- 1		T
Type Line (O&M Function	.			RAMP Mitigation and/or Control	2023 GRC	RAMP Roll-up	Program /	Program /	2023 Imputed		Difference for	Spending Percent Variance	Spending Variance	Percentage Variance	'		2023 Imputed	2023 Actual	Difference for		Unit Variance Explanation	2023 Cost	2023 Unit		Forecast			
No Expense or Area Capital)	MWC MWC Name	MAT MAT Name	RAMP Risk Name	Name	Testimony Reference	(Yes/No)	Project Life (years)	Project Year	Adopted Costs	2023 Actual Costs	2023 (\$)	for 2023 (%)	Explanation Required	Required	י	Unit Type	Adopted Units	Units	2023 (# of Units) (O-N)	2023 (%)	Required	Variance	Variance	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
Capital)							,				, .,	((H-G)/G*100)	(Y/N)	(Y/N)					, · ,	((O-N)/N*100)	(Y/N)	Explanation	Explanation	(U, U, Or 1)	(0, 0, 611)	(0, 0, 611)		
1 Expense GT&S	Maint Gas Tra	ns-												NO.									L					
1 Expense GT&S	34 Subsid	34A ^(a) Stan-Pac Expense	SRM Total	SRM Total	Ex 3, Ch 13	No	On-going	Annual	2,738.3	2,090.9	(647.4)	-23.6%	NO	NO	Various		0	0	0	0.0%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
2 Expense GT&S	Maint Gas Trai	ns- 34A ^(a) Stan-Pac Expense	Loss of Containment on Gas Transmission Pipeline	LOCTM-C038 Stan-Pac Expense	Ex 3, Ch 13	No.	N/A	N/A	2.738.3	2.090.9	(647.4)	-23.6%	N/A	N/Δ	N/A		0	0	0	N/A	N/A	N/Δ	N/A	N/A	N/A	N/A	N/A	N/A
2 3,000						1.60	1471	1671	2,700.0	2,000.0	(047.4)	20.070	, in the second	1471						1471	147.		1971	1471	1671	1671	1471	
3 Expense GT&S	Maint Gas AH Storage Fac	WELL - Integrity AH1 ^(b) Assessments	SRM Total	SRM Total	Ex 3, Ch 7	No	On-going	Annual	9,806.7	6,542.9	(3,263.8)	-33.3%	NO	NO	Various		268	255	(13)	-4.9%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
	Maint Gas	WELL - Integrity	Loss of Containment at Natural Ga	as NGSWR-C003 Well Inspections and																								
4 Expense GT&S	AH Storage Fac	AH1 ^(b) Assessments	Storage Well or Reservoir	Rework	Ex 3, Ch 7	No	N/A	N/A	9,806.7	6,542.9	(3,263.8)	-33.3%	N/A	N/A	N/A		268	255	(13)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Maint Gas																						Actual units were lower than imputed units due to units now being capitalized under WELL Reworks					
5 Expense GT&S	AH Storage Fac	AH2 WELL - Reworks	SRM Total	SRM Total	Ex 3, Ch 7	No	On-going	Annual	3,427.6	0.0	(3,427.6)	-100.0%	NO	NO	# Reworks		2	0	(2)	-100.0%	YES	Below variance threshold.	MAT 3L3.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
6 Expense GT&S	Maint Gas AH Storage Fac	AH2 WELL - Reworks	Loss of Containment at Natural Ga Storage Well or Reservoir	as NGSWR-C003 Well Inspections and Rework	Ex 3, Ch 7	No	N/A	N/A	3,427.6	0.0	(3.427.6)	-100.0%	N/A	N/A	N/Δ		2		(2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0 Expense Orac	All Coorage rac	AIR WELL TOWNS	Giorage Well of Reservoir	NOTON	20,017	140	INA	18/5	3,427.0	0.0	(3,427.0)	-100.076	INA	INA					(2)	INA	INA	INA.	IVA	INA	197	190	IVA	
7 Expense GT&S	Maint Gas AH Storage Fac	AH3 WELL - Other	SRM Total	SRM Total	Ex 3, Ch 7	No	On-going	Annual	2.832.4	1.995.6	(836.9)	-29.5%	NO.	NO.	non-unitized: 1	This MAT has no measurable units because scellaneous engineering support.	N/A	N/A	N/A	N/Δ	NO.	Below variance threshold.	Not-Unitized	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
/ Expense Gras		ARS WELL - Other			Ex 3, GIT	NO	On-going	Annual	2,032.4	1,995.6	(030.9)	-29.5%	INO	140	it captures mil	scellarieous engilieering support.	N/A	N/A	INA	INA	140	below variance unesticid.	NOT OF BIZZOG.	Oirraiget	Oirlaiget	Oiriaiget	Proceeding as Planned	NA .
8 Expense GT&S	Maint Gas AH Storage Fac	AH3 WELL - Other	Loss of Containment at Natural Ga Storage Well or Reservoir	as NGSWR-C004 Well Emergent and Emergency Support	Ex 3, Ch 7	No	N/A	N/A	2,832.4	1,995.6	(836.9)	-29.5%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																This MAT has no measurable units because ecord costs for Gill Ranch Storage. The type												
	Maint Gas	Gill Ranch Operations &													of the work pe	erformed at the storage are different and												
9 Expense GT&S	AH Storage Fac	AH4 Maint	SRM Total	SRM Total	Ex 3, Ch 7	No	On-going	Annual	3,189.1	4,539.2	1,350.2	42.3%	NO	NO	are not compa	arable.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
10 Expense GT&S	Maint Gas AH Storage Fac	Gill Ranch Operations & AH4 Maint	Loss of Containment at Natural Ga Storage Well or Reservoir	as NGSWR-C003 Well Inspections and Rework	Ex 3, Ch 7	No	N/A	N/A	3,189.1	4,539.2	1,350.2	42.3%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11 Expense GT&S	Maint Gas AH Storage Fac	AH# (c) Not assigned	SRM Total	SRM Total	Ex 3, Ch 7	No	On-going	Annual	2,265.7	476.8	(1,788.9)	-79.0%	NO	NO	non-unitized: 1 it is used to re	This MAT has no measurable units because acord various engineering support costs.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
							. 5 5		,																			
12 Expense GT&S	Maint Gas AH Storage Fac	AH# ^(c) Not assigned	Storage Well or Reservoir	as NGSWR-C003 Well Inspections and Rework	Ex 3, Ch 7	No	N/A	N/A	2,265.7	476.8	(1,788.9)	-79.0%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA
																This MAT has no measurable units because												
															MAT CMA rep	presents a chargeback MAT for Gas Control	ı											
	GT Operate														workstream p	count (operators). It represents non- program thus it is a continuous program with												
13 Expense GT&S	CM System	CMA GT&S Operations	SRM Total	SRM Total	Ex 3, Ch 11	No	On-going	Annual	15,572.9	13,898.3	(1,674.6)	-10.8%	NO	NO	no unit comple	etions associated with the charges.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
14 Expense GT&S	GT Operate CM System	CMA GT&S Operations	Insufficient Capacity to Meet Customer Demand	CPCTY-C002 GT&S Operations	Ex 3, Ch 11	No	N/A	N/A	15,572.9	13,898.3	(1,674.6)	-10.8%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	GT Operate		Loss of Containment on Gas	·		1 1	-			.,										-								
15 Expense GT&S		CMA GT&S Operations	Transmission Pipeline	LOCTM-C021 GT&S Operations	Ex 3, Ch 11	No	N/A	N/A	15,572.9	13,898.3	(1,674.6)	-10.8%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	GT Operate		Large Overpressure Event																									
16 Expense GT&S	CM System	CMA GT&S Operations	Downstream of Gas M&C Facility		Ex 3, Ch 11	No	N/A	N/A	15,572.9	13,898.3	(1,674.6)	-10.8%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17 Expense GT&S	GT Operate CM System	CMA GT&S Operations	Loss of Contrim at Gas Measrm & Cntrl / Cmprsn & Prossn Facil	MCCPF-C026 GT&S Operations	Ex 3, Ch 11	No.	N/A	N/A	15.572.9	13.898.3	(1.674.6)	-10.8%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	GT Operate		Loss of Containment at Natural Ga	BS																								
18 Expense GT&S	CM System	CMA GT&S Operations	Storage Well or Reservoir	NGSWR-C001 GT&S Operations	Ex 3, Ch 11	No	N/A	N/A	15,572.9	13,898.3	(1,674.6)	-10.8%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
															non-unitized: h	his MAT has no measurable units because it						Program expenses exceeded the imputed						
	GT Operate	ElecPwr CompFuel & Oth													includes electi	ricity costs for electrically connected gas nd electrically powered gas compressor						values due to system operating conditions and increased electricity costs for electrics						
19 Expense GT&S	CM System	CMB Elec Eq	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 11	No	On-going	Annual	27,881.2	35,400.1	7,518.8	27.0%	NO	YES	stations.	a decinally powered gas compressor	N/A	N/A	N/A	N/A	NO	powered gas compressor stations.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
																							Actual units were lower than imputed units due to					
																							the ticket increase from third-party driven work not materializing as expected. A change in the ticket					This program's demand driven work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this
	G&E T&D Loca	ate																					system used by USA North 811 was found to be difficult to use by excavators, resulting in less					program is a continuing effort to protect underground PG&E assets and maintain excavator safety in accordance with
20 Expense GT&S	DF and Mark	DFA Locate and Mark	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	1,346.4	697.0	(649.4)	-48.2%	NO	NO	# of Tickets		6,073	3,402	(2,671)	-44.0%	YES	Below variance threshold.	engagement with the 811 system.	On-Target	On-Target	On-Target	Proceeding as Planned	state and federal code.

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

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	A	В	C1 C2	C3	3	C4	C5	C6	C7	D	E	F	G	Н	1	J	K Spending	L Percentage	M	N	0	P	Q	R	S	Т	U1	U2 Forecast	U3	V	w
Line	Type (O&M Expense o	Function		ame MA	AT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control	2023 GRC Testimony	RAMP Roll-up	Program / Project Life	Program /	2023 Imputed	2023 Actual Costs	Difference for 2023 (\$)	Spending Percent Variance for 2023 (%)	Variance Explanation	Variance Explanation	Unit Type	2023 Imputed	2023 Actual	Difference for 2023 (# of Units)	Unit Percent Variance for	Unit Variance Explanation	2023 Cost	2023 Unit	Scope	Schedule	Budget	Status	Completion Status Statement
No	Capital)	r Area						Name	Reference	(Yes/No)	(years)	Project Year	Adopted Costs		(11.0)	for 2023 (%) ((H-G)/G*100)	Required (Y/N)	Required (Y/N)		Adopted Units	Units	(O-N)	2023 (%) ((O-N)/N*100)	Required (Y/N)	Variance Explanation	Variance Explanation	(U, O, or T)	(U, O, or T)	(U, O, or T)		
			G&E T&D	Locate			Loss of Containment on Gas	LOCTM-C009 Locate and Mark -																							
21	Expense	GT&S	DF and Mark	DFA	A Locate	and Mark 1	Transmission Pipeline	Transmission	Ex 3, Ch 8	No	N/A	N/A	1,346.4	697.0	(649.4)	-48.2%	N/A	N/A	N/A	6,073	3,402	(2,671)	N/A	N/A I	N/A	NA	N/A	N/A	N/A	N/A N/A	A
			G&E T&D																												
22	Expense	GT&S	DF and Mark	DFE	B Locate	and Mark - Standby	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	5,420.7	5,179.5	(241.1)	-4.4%	NO	NO	# of Requests	5,381	5,658	277	5.1%	NO !	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned N/A	A
23	Expense	GT&S	G&E T&D DF and Mark	Locate DFE	B Locate		Loss of Containment on Gas Transmission Pipeline	LOCTM-C010 Locate and Mark - Transmission Standby	Ex 3, Ch 8	No	N/A	N/A	5,420.7	5,179.5	(241.1)	-4.4%	N/A	N/A	N/A	5,381	5,658	277	N/A	N/A I	N/A	N/A	N/A	N/A	N/A	N/A N/A	A
																			non-unitized: This MAT has no measurable units because												
			1 1																the work encompassed is varied with no consistent unit of measure. This largely includes responding to requests,												
24	Expense	GT&S	Gas Trans GF Sys Mappi		Mappin Transm	ng Support- nission S	SRM Total	SRM Total	Ex 3, Ch 13	No	On-going	Annual	5.563.2	2.434.4	(3.128.8)	-56.2%	NO	NO	research, and remediation to data in gas systems (T&D) of record for assets not encompassed in an order.	N/A	N/A	N/A	N/A	NO I	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned N/A	A
																														_	
25	Expense	GT&S	Gas Trans GF Sys Mappi		Mappin Transm	ng Support- nission 1	Loss of Containment on Gas Transmission Pipeline	LOCTM-C036 Production Mapping Transmission	Ex 3, Ch 13	No	N/A	N/A	5,563.2	2,434.4	(3,128.8)	-56.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A I	N/A	NA	N/A	N/A	N/A	N/A N/A	A
																			non-unitized: This MAT has no measurable units because												
																			the work encompassed is varied with no consistent unit of measure. This largely includes responding to requests,												
26	Expense	GT&S	Gas Trans GF Sys Mappi	& Dist	o GT&D	Data Management S	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	N/A	No	On-going	Annual	0.0	1,036.2	1,036.2	100.0%	NO	NO	research, and remediation to data in gas systems (T&D) of record for assets not encompassed in an order.	N/A	N/A	N/A	N/A	NO I	Below variance threshold.	Not-Unitized.	On-Tarnet	On-Target	Over	Proceeding as Planned N/A	A
- 20			С, с, то	- G	<u> </u>		,			140	Orrgong	7111001	0.0	1,000.2	1,000.2	100.070				167	1471	1471	147								
			Gas																							Actual units were lower than imputed units due to: (1) completion of the multi-year arc fault program,				Thi	is program's work is ongoing and will continue in PG&E's
27	Expense	GT&S	GJ Mitigate Co	on orr GJA	A ^(d) Electric	cal Interference - AC	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	1,539.3	1,266.0	(273.3)	-17.8%	NO	NO	Various	329	159	(170)	-51.7%	YES	Below variance threshold.	and (2) no new locations were investigated due to the multi-year program clean-up.	On-Target	On-Target	On-Target	Proceeding as Planned cor	23 GRC period. The purpose of this program is a ntinuing effort to investigate and mitigate AC Interference.
			Gas Transmissi			L	Loss of Containment on Gas	LOCTM-C033 Electrical Interference																							
28	Expense	GT&S	GJ Mitigate Co	orr GJA	A ^(w) Electric	cal Interference - AC 1	Transmission Pipeline	Program	Ex 3, Ch 9	No	N/A	N/A	1,539.3	1,266.0	(273.3)	-17.8%	N/A	N/A	N/A	329	159	(170)	-51.7%	N/A I	N/A	N/A	N/A	N/A	N/A	N/A N/A	Α
29	Expense	GT&S	Transmissi GJ Mitigate Co	on orr GJA	A ^(d) Electric	cal Interference - AC	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C019 Electrical Interference	Ex 3, Ch 9	No	N/A	N/A	1.539.3	1.266.0	(273.3)	-17.8%	N/A	N/A	N/A	329	159	(170)	-51.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	A
									.,				1,000.0	1,22010	(=: =:=)							()	-							Thi	is program's work is ongoing and will continue in PG&E's
																										Actual units were lower than imputed units due to: 1) long lead permit delays and scope changes, 2)				cor	23 GRC period. The purpose of this program is a ntinuing effort to mitigate atmospheric corrosion on
			Gas																							projects beginning in 2023 that won't materialize until completion in 2024, and 3) the projects in				ins	nsmission main spans found during atmospheric corrosion pections, required to maintain compliance with 49 CFR
30	Expense	GT&S	GJ Mitigate Co	on orr GJE	IB Atmosp	pheric Corrosion S	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	3,841.7	7,167.5	3,325.7	86.6%	NO	NO	# of span and station recoats	94	62	(32)	-34.0%	YES	Below variance threshold.	progress in 2023 were on large pipelines thus creating more complex jobs.	On-Target	On-Target	On-Target	Proceeding as Planned Co	ction 192, Subpart I - Requirements for Corrosion introl.
			Gas Transmissi	on			Loss of Containment on Gas	LOCTM-C034 Atmospheric Corrosion																							
31	Expense	GT&S	GJ Mitigate Co Gas	orr GJE	IB Atmosp	pheric Corrosion 1	Transmission Pipeline	Program	Ex 3, Ch 9	No	N/A	N/A	3,841.7	7,167.5	3,325.7	86.6%	N/A	N/A	N/A	94	62	(32)	-34.0%	N/A I	N/A	N/A	N/A	N/A	N/A	N/A N/A	A
32	Expense	GT&S	Transmissi GJ Mitigate Co		IB Atmosp	pheric Corrosion C	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C017 Facility Corrosion Control Program	Ex 3, Ch 9	No	N/A	N/A	3,841.7	7,167.5	3,325.7	86.6%	N/A	N/A	N/A	94	62	(32)	-34.0%	N/A I	N/A	N/A	N/A	N/A	N/A	N/A N/A	A
			Gas Transmissi	on																											
33	Expense	GT&S	GJ Mitigate Co	orr GJC	C(e) Cathod	dic Protection Exp	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	414.4	291.7	(122.7)	-29.6%	NO	NO	Various	1,000	889	(111)	-11.1%	NO !	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned N/A	Α
34	Expense	GT&S	Transmissi G.I Mitigate Co		C ^(e) Cathod	dic Protection Exp 1	Loss of Containment on Gas Transmission Pipeline	LOCTM-C019 Cathodic Protection	Ex 3, Ch 9	No	N/A	N/A	414.4	291 7	(122.7)	-29.6%	N/A	N/A	N/A	1,000	889	(111)	-11.1%	NA I	N/A	N/A	N/A	N/A	N/A	N/A N/A	Α.
						·	,								(1,000		()									
25	Expense	GT&S	Gas Transmissi	on on	ID Took Co	Station Exp. S	SRM Total	SRM Total	Ex 3. Ch 9		0	Annual	247.1	242.6	(4.5)	-1.8%	NO	NO	# of test stations installed	40	2	(0)	-80.0%	VEC	Below variance threshold	Actual units were lower than imputed units due to the lower number of test stations discovered during annual monitoring that required repair.	On Torract	On-Target	On-Target	Proceeding as Planned N/A	
35	Expense	6188	Gas		in lest St			Orwi rolali	EX 3, GH 9	No	Un-going	Annuai	247.1	242.6	(4.5)	-1.8%	INU	NO	r or tool standing engaged	10	2	(8)	-80.0%	150	DONOW VARIABLES LITTERSTONE.	annual monitoring triat required repair.	On-Target	OTFT RIGHT	On-rarget	Proceeding as Planned IN/	n .
36	Expense	GT&S	GJ Mitigate Co		D Test St	tation Exp 1	Loss of Containment on Gas Transmission Pipeline	LOCTM-C019 Cathodic Protection	Ex 3, Ch 9	No	N/A	N/A	247.1	242.6	(4.5)	-1.8%	N/A	N/A	NA	10	2	(8)	-80.0%	N/A I	N/A	N/A	N/A	N/A	N/A	N/A N/A	A
			Gas																							Actual units were lower than imputed units due to					
37	Expense	GT&S	GJ Mitigate Co	on orr GJE	E ^(f) Close I	Interval Survey (CIS)	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	4,141.9	1,877.2	(2,264.8)	-54.7%	NO	NO	Various	451	178	(273)	-60.5%	YES	Below variance threshold.	reprioritization in support of higher risk or compliance work.	Under	Under	Under	Du Rescheduled pro	e to reprioritization to higher risk or compliance work, ogram activities have been delayed.
			Gas Transmissi		.		Loss of Containment on Gas																	T			1 1	Ţ		T	
38	Expense	GT&S	Gas		E ^{v/} Close I		Transmission Pipeline	LOCTM-C019 Cathodic Protection	Ex 3, Ch 9	No	N/A	N/A	4,141.9	1,877.2	(2,264.8)	-54.7%	N/A	N/A	N/A	451	178	(273)	-60.5%	N/A I	N/A	N/A	N/A	N/A	N/A	N/A N/A	A
39	Expense	GT&S	Transmissi GJ Mitigate Co		E ^(f) Close I	Interval Survey (CIS)	Loss of Contrim at Gas Measrm & Critrl / Cmprsn & Prcssn Facil	MCCPF-C018 Cathodic Protection	Ex 3, Ch 9	No	N/A	N/A	4,141.9	1,877.2	(2,264.8)	-54.7%	N/A	N/A	N/A	451	178	(273)	-60.5%	N/A I	N/A	N/A	N/A	N/A	N/A	N/A N/A	Α
																														Thi	is program's work is ongoing and will continue in PG&E's
			Gas																non-unitized: This MAT has no measurable units because this MAT code is to perform Dynamic/Static DC											20:	23 GRC period. The purpose of this program is to estigate DC interference locations. The program's scope
40	Expense	GT&S	Transmissi GJ Mitigate Co		JF Electric	cal Interference - DC S	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	801.9	1,616.5	814.6	101.6%	NO	NO	Reactive/Proactive investigation, and it is mainly vendor or employee's time charged to perform the investigation.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	Over	Over	Over	wa	s expanded to meet requirements in PHMSA MegaRule int 2.
40			00g 0.							140	Orrgong	/ trinual	001.0	1,010.0	014.0	101.070				1673	1973	1973	1071								

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

				1													1		1								1
A	В	C1 C2	C3 C4	C5	C6	C7	D	E	F	G	Н	1	J	К	L	M	N	0	Р	Q	R	s	т	U1	U2 U3	V	W
Type						2023 GRC		Program /				Difference for	Spending	Spending Variance	Percentage Variance				Difference for	Unit Percent	Unit Variance	2023	2023		Forecast		
ine (O&M No Expense or Capital)	Functional Area	MWC MWC N	ame MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	Testimony Reference	(Yes/No)	Declare Life	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	2023 (\$) (H-G)	Percent Variance for 2023 (%) ((H-G)/G*100)	Explanation Required (Y/N)	Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units	2023 (# of Units) (O-N)	Variance for 2023 (%) ((O-N)/N*100)	Explanation Required (Y/N)	Cost Variance Explanation	Unit Variance Explanation	Scope (U, O, or T)	Schedule Budget (U, O, or T)	Status	Completion Status Statement
41 Expense	GT&S	Gas Transmiss GJ Mitigate C	on rr GJF Electrical Interference - E	Loss of Containment on Gas Transmission Pipeline	LOCTM-C033 Electrical Interference Program	Ex 3, Ch 9	No	N/A	N/A	801.9	1,616.5	814.6	101.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A N/A	N/A	N/A
42 Expense	GT&S	Gas Transmiss GJ Mitigate C	on rr GJF Electrical Interference - E	Loss of Contrim at Gas Measrm & Contri / Cmprsn & Prossn Facil	MCCPF-C019 Electrical Interference	Ex 3, Ch 9	No	N/A	N/A	801.9	1,616.5	814.6	101.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
43 Expense	GT&S	Gas Transmiss GJ Mitigate C	on GUH ⁽ⁱⁱ⁾ Internal Corrosion	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going .	Annual	6,066.1	838.3	(5,227.8)	-86.2%	NO.	YES	Various	2,743	1,395	(1,348)	-49.1%	YES	Program expenses were below imputed regulatory values due to less units being performed.	Actual units were lower than imputed units because: 1) work was done and paid by a third party, so no rate case units are claimed; 2) fewer internal corrosion monitoring devices were installed than articipated that required monitoring; 3) drips required less frequent maintenance than articipated, and of lewer internal corrosion mon-destructive commitmations were performed.	Under	On-Target Under	Proceeding as Planned	This program's work is ongoing and will continue in PC4 2023 GRC period. The purpose of this program is to monitor internal correction. Less work is required to be performed than anticipated in the 2023 GRC.
44 Expense	GT&S	Gas Transmiss GJ Mitigate C	on rr GJH ^(g) Internal Corrosion	Loss of Containment on Gas Transmission Pipeline	LOCTM-C032 Internal Corrosion Program	Ex 3, Ch 9	No	N/A	N/A	6,066.1	838.3	(5,227.8)	-86.2%	N/A	N/A	N/A	2,743	1,395	(1,348)	-49.1%	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
45 Expense	GT&S	Gas Transmiss GJ Mitigate C		SRM Total	SRM Total	Ex 3, Ch 9	Mo	On-going	Annual	290.9	0.0	(290.9)	-100.0%	NO.	NO.	non-unitized: This MAT has no measurable units because the type of work varies by situation. Complex corrosion investigations are driven by requests from corrosion disentions to corrosion engineering to help troubleshoot complex corrosion issues as reeded, and the level of support varies based on the unique circumstances of each		N/A	N/A	N/A	NO.	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned	N/A
45 Expense	0140	Gas Transmiss	on Ggg cow read mestigations	Loss of Containment on Gas			140	Oirgoing	Airiuai	250.5	0.0	(250.5)	-100.076	110		producti.	N/A	180	180	18/2		SOUNT TAINING US COLORS.	TWO OFFICEOUS.	Oir raiget	Oir target Oir target	1 Toolsang as Trained	
46 Expense	GT&S	GJ Mitigate C Gas	rr GJJ Low Read Investigations	Transmission Pipeline	LOCTM-C019 Cathodic Protection	Ex 3, Ch 9	No	N/A	N/A	290.9	0.0	(290.9)	-100.0%	N/A	N/A	N/A non-unitized: This MAT has no measurable units because	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
47 Expense	GT&S	GJ Mitigate C		SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	2,865.2	1,445.9	(1,419.3)	-49.5%	NO	NO	it reflects labor costs supporting data and program management.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned	N/A
48 Expense	GT&S	Gas Transmiss GJ Mitigate C	on err GJK Corrosion Support	Loss of Containment on Gas Transmission Pipeline	LOCTM-C035 Transmission Corrosion Control Program	Ex 3, Ch 9	No	N/A	N/A	2,865.2	1,445.9	(1,419.3)	-49.5%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	NA NA	N/A	N/A
49 Expense	GT&S	GJ Mitigate C		Loss of Contrin at Gas Measrm & Cntrl / Cmprsn & Prossn Facil	MCCPF-C017 Facility Corrosion Control Program	Ex 3, Ch 9	No	N/A	N/A	2,865.2	1,445.9	(1,419.3)	-49.5%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
50 Expense	GT&S	Transmiss GJ Mitigate C	on rr GJL Casings Monitoring	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	0.0	0.5	0.5	100.0%	NO	NO	# of casings tested	0	0	0	0.0%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target Over	Proceeding as Planned	N/A
51 Expense	GT&S	Gas Transmiss GJ Mitigate C		Loss of Containment on Gas Transmission Pipeline	LOCTM-C035 Transmission Corrosion Control Program	Ex 3, Ch 9	No	N/A	N/A	0.0	0.5	0.5	100.0%	N/A	N/A	NA	0	0	0	0.0%	N/A	N/A	NA	N/A	NA NA	N/A	NA
52 Expense	GT&S	Transmiss GJ Mitigate C		SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	4,276.6	2,280.0	(1,996.6)	-46.7%	NO	NO	Various	1,181	1,137	(44)	-3.7%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target On-Target	Proceeding as Planned	N/A
53 Expense	GT&S	Gas Transmiss GJ Mitigate C		Loss of Containment on Gas Transmission Pipeline	LOCTM-C035 Transmission Corrosion Control Program	Ex 3, Ch 9	No	N/A	N/A	4,276.6	2,280.0	(1,996.6)	-46.7%	N/A	N/A	N/A	1,181	1,137	(44)	N/A	N/A	N/A	NA	N/A	N/A N/A	N/A	N/A
54 Expense	GT&S	Manage E		SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	2,650.8	3,617.0	966.2	36.4%	NO	NO	non-unitized: This MAT has no measurable units due to the variability in O&M activities the MAT includes.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned	N/A
55 Expense	GT&S	Manage E	ergy IonBA GMD LNG / CNG	Loss of Containment on LNG/CNG Portable Equipment	LNCNG-C002 LNG/CNG Portable Expense	Ex 3, Ch 5	No	N/A	N/A	2,650.8	3,617.0	966.2	36.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
56 Expense	GT&S	Manage E	ergy IonBA GMD LNG / CNG	Loss of Containment on Gas Transmission Pipeline	LOCTM-C002 LNG/CNG to Support Strength Testing	Ex 3, Ch 5	No	N/A	N/A	2,650.8	3,617.0	966.2	36.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
		CGT Bala														non-unitized: This MAT has no measurable units because it is used to record costs for Subpart O Integrity Management Risk Analysis. The type of work performed											
57 Expense	GT&S	HP Accounts	HPA TIMP - Other	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	9,804.2	9,706.6	(97.5)	-1.0%	NO	NO	are not comparable.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned	N/A
58 Expense	GT&S	CGT Bala	cing HPA TIMP - Other	Loss of Containment on Gas Transmission Pipeline	LOCTM-C029 Risk Analysis	Ex 3, Ch 5	No	N/A	N/A	9,804.2	9,706.6	(97.5)	-1.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
59 Expense	GT&S	CGT Bala HP Accounts	cing HPB Traditional ILI Runs	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	33,561.8	70,894.2	37,332.4	111.2%	YES	YES	Miles Inspected	337.27	457.00	119.73	35.5%		2023. Because of this, the work plan could	Actual units were higher than imputed units because the 2023 work plan was set in 2022 and the 2023 GRC Final Decision was received at the end of 2023. Because of this, the work plan could not be adjusted to be consistent with the adopted units.	On-Target	On-Target Over	Proceeding as Planned	This program's work is ongoing and will continue in PG4 2022 GRC period. The purpose of this program is to as pipeline integrity for the internal and external condition charansmission line pipe as required by 46 CFR Subpart (
		CGT Bala		Loss of Containment on Gas			·	3.0			.,					·										, , , ,	

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

	A	В	C1	C2	C3	C4	C5	C6	C7	D	E	F	G	Н	1	J	К	L	М	N	0	Р	Q	R	s	Т	U1	U2 U3	V	w
	Type (O&M	Function						RAMP Mitigation and/or Control	2023 GRC	RAMP Roll-up	Program /	Program /	2023 Imputed	Dif		ending nt Variance	Spending Variance	Percentage Variance		2023 Imputed	2023 Actual	Difference for	Unit Percent Variance for	Unit Variance Explanation	2023 Cost	2023 Unit		Forecast		
Lin N	Expense of	or Area	MWC	MWC Name	MAT	MAT Name	RAMP Risk Name	Name	Testimony Reference	(Yes/No)	Project Life (years)	Project Year	Adopted Costs	2023 Actual Costs	2023 (\$) for :	2023 (%)	Explanation Required	Explanation Required	Unit Type	Adopted Units	Units	2023 (# of Units) (O-N)	2023 (%)	Required	Variance	Variance	Scope	Schedule Budget	Status	Completion Status Statement
	Capital)								Reference		(years)				(H-C	G)/G*100)	(Y/N)	(Y/N)				(0-11)	((O-N)/N*100)	(Y/N)	Explanation	Explanation	(U, O, or T)	(U, O, or T) (U, O, or T)		
				CGT Balancing																						Actual units were lower than imputed units due to fewer miles of pipeline assessed with EDCA. This was due to the decision to utilize other assessment technologies which led to lower scope of work than	t n			This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to proactively address time-dependent threats of external corrosion and to prevent aromailes from growing to a size
6	Expense	GT&S	HP	Accounts	HPC I	ECDA Indirect Inspections	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	7,382.6	8,316.1	933.4 1	12.6%	NO	NO	Miles inspected	67.13	38.99	(28.14)	-41.9%	YES	Below variance threshold.	anticipated when forecasting the GRC.	On-Target	On-Target On-Target	Proceeding as Planne	d that affects the structural integrity of the pipeline.
	Expense	GT&S		CGT Balancing Accounts	HPC I	ECDA Indirect Inspections	Loss of Containment on Gas Transmission Pipeline	LOCTM-C022 Direct Assessment	Ex 3, Ch 5		N/Δ	N/A	7.382.6	8.316.1	933.4 1	12.6%	N/Δ		AVA	67.13	39.00	(28 13)	-41.9%	N/Δ	L		N/Δ	N/A N/A	N/A	N/A
- 6	cxperse	GIAS) HP	Accounts	HPC I	ECDA Indirect Inspections	Transmission Pipeline	LOCT M-C022 Direct Assessment	EX 3, UII 5	No	NA	N/A	7,382.6	8,316.1	933.4 1	12.6%	N/A	NA	INA	67.13	39.00	(28.13)	-41.9%	NA	NA	NA .	N/A	N/A N/A	N/A	NA .
6	Expense	GT&S	з не	CGT Balancing Accounts	HPE I	Integrity Manage Leak Surv	vey SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	276.1	179.4	(96.7)	35.0%	NO	NO	non-unitized: This MAT has no measurable units because this programs records costs associated with transmission leak surveys conducted on conducted on Class 3/4 non HCA pipeline operating under 30 percent Specified Minimum Yield Strength as required by Subpart O.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planne	d NA
		0700		CGT Balancing			Loss of Containment on Gas																							
6	Expense	GT&S	HP	Accounts	HPE I	Integrity Manage Leak Surv	vey Transmission Pipeline	LOCTM-C029 Risk Analysis	Ex 3, Ch 5	No	N/A	N/A	276.1	179.4	(96.7)	35.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
6	Expense	GT&S	з не	CGT Balancing Accounts	HPF I	Hydrostatic Testing - IM	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	21,325.6	35,560.3	14,234.7	56.7%	YES	YES	Miles	3.27	12.02	8.75	267.6%	YES	Program expenses exceeded imputed regulatory values due to a larger scope of in year compliance work.	Actual units were higher than imputed units due to i year compliance driven work and project carryover from 2022 to 2023. Project delays resulted in a 6.7 mile carryover for the program from 2022 to 2023.	,	On-Target Over	Proceeding as Planne	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to validate the integrity of pipe that is located in HCAs, Class 3 and 4, non-HCA, and potentially new MCAs as required by d 9 CFR Subpart O and 49 CFR Part 192.
	Evnense	GT&S		CGT Balancing	une	Hydroetatic Teeting - IM	Loss of Containment on Gas Transmission Pipeline	LOCTM-C026 TIMP Strength Testing	Ex 3, Ch 5		N/Δ	N/A	21,325.6	35.560.3	14.234.7	36.7%	N/Δ		AVA	2 27	40.00	8.75	267.6%		L		N/A	N/A N/A	N/A	AVA
6	Expense			CGT Balancing	HPI	II I Direct Exam and Renair		SRM Total	Ex 3, Ch 5	No.	On-going	Annual	48,185.8			-2.4%	NO.	NO.	non-unitized: This MAT has no measurable units because it involves direct examination and repair work that is based on data collected through both Traditional II runs	3.27 N/A	N/A	0.75 N/A	207.0%	NO.	Relow variance threshold	Not-I Initized	On-Target	On-Target On-Target	Proceeding as Planne	d NA
										140	Orrgong	7411,001	40,100.0	47,027.7	(1,100.0)	2.470				1671	147.		1671							
6	Expense	GT&S	HP	CGT Balancing Accounts	HPI I	ILI Direct Exam and Repair	Loss of Containment on Gas Transmission Pipeline	LOCTM-C005 In-Line Inspection	Ex 3, Ch 5	No	N/A	N/A	48.185.8	47.027.7	(1.158.0) -	-2.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
6	Expense	GT&S	з не	CGT Balancing Accounts	HPJ I	ICDA Indirect Inspections	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	718.5	32.6	(685.8)	95.5%	NO	NO	# of projects	11	0	(11)	-100.0%	YES		Actual units were lower than imputed units due to fewer miles of pipeline assessed with ICDA. This was due to fewer HCAs that required ICDA assessments which led to lower scope of work tha anticipated when forecasting the GRC.	n On-Target	On-Target On-Target	Proceeding as Planne	d NA
				CGT Balancing			Loss of Containment on Gas																							
7	Expense	GT&S	HP.	Accounts	HPJ I	ICDA Indirect Inspections	Transmission Pipeline	LOCTM-C022 Direct Assessment	Ex 3, Ch 5	No	N/A	N/A	718.5	32.6	(685.8) -1	95.5%	N/A	N/A	N/A	11	0	(11)	-100.0%	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
7	Expense	GT&S		CGT Balancing Accounts	HPK S	SCCDA Indirect Inspections	s SRM Total Loss of Containment on Gas	SRM Total	Ex 3, Ch 5	No	On-going	Annual	1,745.3	839.7	(905.5) -:	51.9%	NO	NO	Miles	15.87	0.00	(15.87)	-100.0%	YES	Below variance threshold.	Actual units were lower than imputed units due to risk and threat data for SCC threat requiring 2023 SCCDA assessments.	Under	On-Target On-Target	Proceeding as Planne	This programs work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to utilize direct assessment for stress corrosion cracking threat assessment. This is time-dependent threat compliance date driven work.
7	Expense	GT&S	HP.	Accounts	HPK :	SCCDA Indirect Inspections	Transmission Pipeline	LOCTM-C022 Direct Assessment	Ex 3, Ch 5	No	N/A	N/A	1,745.3	839.7	(905.5) -	51.9%	N/A	N/A	N/A	15.87	0.00	(15.87)	-100.0%	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
7	Expense	GT&S	HP.	CGT Balancing Accounts	нем І	Repairs / Replace < '50ft	SRM Total Loss of Containment on Gas	SRM Total	Ex 3, Ch 5	No	On-going	Annual	4,446.4	139.0	(4,307.3)	96.9%	NO	NO	non-unitized: This MAT has no measurable units because it is used to record costs for very short pipe replacements in lieu of test (<50ft).	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planne	d N/A
7	Expense	GT&S	HP.	Accounts	HPM I	Repairs / Replace < '50ft	Transmission Pipeline	LOCTM-C026 TIMP Strength Testing	Ex 3, Ch 5	No	N/A	N/A	4,446.4	139.0	(4,307.3) -1	96.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
	Expense	GT&S	В не	CGT Balancing Accounts	HPN I	ECDA Direct Examinations	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	36,825.3	27,086.2	(9,739.1)	26.4%	NO	YES	Digs	168	122	(46)	-27.4%	YES	pipeline assessed with ECDA. This was due to fewer miles of HCAs that required ECDA	Actual units were lower than imputed units due to fewer miles of pipeline assessed with EDCA. This was due to the decision to utilize other assessment technologies which led to lower scope of work.	t On-Target	On-Target On-Target	Proceeding as Planne	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to proactively address time-dependent threats of stress corrosion cracking and to pervent anomalies from growing to a size that affects the structural integrity of the pipeline.
	1_	1		CGT Balancing	1		Loss of Containment on Gas												<u>[</u>					1						L
7	Expense	GT&S	HP.	Accounts	HPN I	ECDA Direct Examinations	Transmission Pipeline	LOCTM-C022 Direct Assessment	Ex 3, Ch 5	No	N/A	N/A	36,825.3	27,086.2	(9,739.1) -2	26.4%	N/A	N/A	N/A	168	122	(46)	-27.4%	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
7	Expense		HP.	CGT Balancing Accounts	HPO I	ICDA Direct Examinations	SRM Total Loss of Containment on Gas	SRM Total	Ex 3, Ch 5	No No	On-going	Annual	12,665.6	1,242.7		90.2%	YES	YES	Digs	43	4	(39)	-90.7%	YES	updates for internal corrosion threat that	Actual units were lower than imputed units due to risk and threat data updates for internal corrosion threat that impacted the 2023 dentified scope, leading to no ICDA projects in 2023.	On-Target	On-Target On-Target	Proceeding as Planne	This program's work is ongoing and will continue in PGSE's 2023 GRC period. The purpose of this program is to proactively address time-dependent threats of internal corrosion and to prevent aromalies from growing to a size dithat affects the structural integrity of the ppeline.
7	Expense	GT&S	HP	Accounts	HPO I	ICDA Direct Examinations	Transmission Pipeline	LOCTM-C022 Direct Assessment	Ex 3, Ch 5	No	N/A	N/A	12,665.6	1,242.7 ((11,422.8) -1	90.2%	N/A	N/A	N/A	43	4	(39)	N/A	N/A	N/A Program expenses were below imputed	N/A	N/A	N/A N/A	N/A	N/A
7	Expense	GT&S	з не	CGT Balancing Accounts	HPP :	SCCDA Direct Examinations	s SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	17,035.2	17.6	(17,017.5) -	99.9%	YES	YES	Digs	77	0	(77)	-100.0%	YES	regulatory values due to fewer miles of pipeline assessed with SCCDA. This was due to fewer miles of HCAs that required	Actual units were lower than imputed units due to fewer miles of pipeline assessed with SCCDA. Thi was due to fewer miles of HCAs that required SCCDA assessments which led to lower scope of work.	on-Target	On-Target On-Target	Proceeding as Planne	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to proactively address time-dependent threats of stress corrosion cracking and to prevent anomalies from growing d to a size that affects the structural integrity of the pipeline.
8	Expense	GT&S	HP	CGT Balancing Accounts	HPP :	SCCDA Direct Examinations	Loss of Containment on Gas s Transmission Pipeline	LOCTM-C022 Direct Assessment	Ex 3, Ch 5	No	N/A	N/A	17.035.2	17.6	(17.017.5) -	99.9%	N/A	N/A	N/A	77	n	(77)	-100.0%	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

Line	Type (O&M F	Functional					RAMP Mitigation and/or Control	2023 GRC	RAMP Roll-up	Program /	Program /	2023 Imputed		Difference for	Spending Percent Variance	Spending Variance	Percentage Variance		2023 Imputed	2023 Actual	Difference for	Unit Percent Variance for	Unit Variance Explanation	2023 Cost	2023 Unit		Forecast	4	
No E	(pense or Capital)	Area M	WC MWC Name	MAT	MAT Name	RAMP Risk Name	Name	Testimony Reference	(Yes/No)	Project Life (years)	Project Year	Adopted Costs	2023 Actual Costs	2023 (\$) (H-G)	for 2023 (%) ((H-G)/G*100)	Explanation Required (Y/N)	Explanation Required (Y/N)	Unit Type	Adopted Units	Units	2023 (# of Units) (O-N)	2023 (%) ((O-N)/N*100)	Required (Y/N)	Variance Explanation	Variance Explanation	Scope (U, O, or T)	Schedule Budget (U, O, or T) (U, O, or T)	Status	Completion Status Statement
81	Expense	GT&S I	CGT Balancing HP Accounts	HPR	Non-Traditional ILI Runs	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	14,392.6	17,293.3	2,900.6	20.2%	NO	NO	Miles	6.23	4.10	-2.13	-34.2%	YES	Below variance threshold.	Actual units were lower than imputed units because alternative assessment methods, such as ECDA, Pipe Replacement, and Strength Testing, were used in lieu of non-traditional to address integrity issues in 2023.	On-Target	On-Target On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to complete integrity assessments for sections of HCA pipe that may be infeasible for assessment by direct assessment to comply with requirements of 49 CFR Subpart C.
			CGT Balancing			Loss of Containment on Gas																							
82	Expense	GT&S	HP Accounts	HPR	Non-Traditional ILI Runs	Transmission Pipeline	LOCTM-C005 In-Line Inspection	Ex 3, Ch 5	No	N/A	N/A	14,392.6	17,293.3	2,900.6	20.2%	N/A	N/A	NA	6.23	4.10	-2.13	-34.2%	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
83	Expense	GT&S I	CGT Balancing Accounts	HPS	Geo-Hazard Studies	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	3,014.5	1,927.3	(1,087.2)	-36.1%	NO	NO	non-unitized: This MAT has no measurable units because it is used to record costs for identifying geo-hazards such as soil-creep, dormant landsides with potential to re- activate, and subsidence. The type of work performed are not comparable.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned	NA
84	Expense	GT&S I	CGT Balancing Accounts	HPS	Geo-Hazard Studies	Loss of Containment on Gas Transmission Pipeline	LOCTM-C001 Geo-Hazard Threat Identification and Mitigation	Ex 3, Ch 5	No	N/A	N/A	3,014.5	1,927.3	(1,087.2)	-36.1%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	NA
85	Expense	GT&S I	CGT Balancing HP Accounts	HPT	Root Cause Analysis	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	2,871.0	1,048.0	(1,823.0)	-63.5%	NO	NO	non-unitized: This MAT has no measurable units because it is used to record costs to perform root cause analysis of significant incidents or issues on pipelines. The type of work performed are not comparable.	N/A	N/A	N/A	NΆ	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned	NA
86	Expense	GT&S I	CGT Balancing	HPT	Root Cause Analysis	Loss of Containment on Gas Transmission Pipeline	LOCTM-C030 Root Cause Analysis	Ex 3, Ch 5	No	N/A	N/A	2,871.0	1,048.0	(1,823.0)	-63.5%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	NA
87	Expense	GT&S	CGT Balancing	HPU	TIMP Direct Examinations	SRM Total	SRM Total	Ex 3. Ch 5	No	On-going	Annual	25,659.9	19,207.7	(6,452.2)	-25 1%	NO	YES	Dias	24	17	(7)	-29.2%	YES	Program expenses were below imputed regulatory values due to HCA removal on eight (8) pipelline segments and pressure reduction on one (1) segment.	Actual units were lower than imputed units due to HCA removal on eight (8) pipeline segments and pressure reduction on one (1) segment.	On-Target	On-Target On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to utilize direct examination to perform threat assessments, which includes include exavation, examination, and repoir.
			CGT Balancing			Loss of Containment on Gas								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							` ` `								
88	Expense	GT&S	HP Accounts	HPU	TIMP Direct Examinations	Transmission Pipeline	LOCTM-C022 Direct Assessment	Ex 3, Ch 5	No	N/A	N/A	25,659.9	19,207.7	(6,452.2)	-25.1%	N/A	N/A	NA	24	17	(7)	-29.2%	N/A	N/A	N/A	N/A	N/A N/A	N/A	NA
89	Expense	GT&S ,	GT Pipeline Maintenance	JO1	PM Scada Maintenance	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	349.0	355.1	6.1	1.7%	NO	NO	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned	NA
90	Expense	GT&S ,	GT Pipeline JO Maintenance	JO1	PM Scada Maintenance	Insufficient Capacity to Meet Customer Demand	CPCTY-C005 Transmission SCADA Maintenance	Ex 3, Ch 8	No	N/A	N/A	349.0	0.0	(349.0)	-100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
91	Expense	GT&S ,	GT Pipeline JO Maintenance	JO1	PM Scada Maintenance	Large Overpressure Event Downstream of Gas M&C Facility	LRGOP-C016 Transmission SCADA Maintenance	Ex 3, Ch 8	No	N/A	N/A	349.0	355.1	6.1	1.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
			GT Pipeline			Loss of Contnm at Gas Measrm &	MCCPF-C002 Transmission SCADA																N/A						
92	Expense	GT&S ,	GT Pipeline		PM Scada Maintenance CM Scada Maintenance	Cntrl / Cmprsn & Prcssn Facil	Maintenance SRM Total	Ex 3, Ch 8	No	N/A	N/A Annual	349.0 251.4	355.1	(65.1)	1.7%	N/A	N/A	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A N/A	NA.	N/A Below variance threshold.	N/A Not-Unitized.	N/A On-Target	N/A N/A On-Target On-Target	N/A Proceeding as Planned	NA NA
			GT Pipeline			Insufficient Capacity to Meet	CPCTY-C005 Transmission SCADA		IND	On-going				(5511)		140	140	equivalent to a unit.			N/A		140	below variance uneshold.	NOT-CHINZEG.				INO
94	Expense	GT&S ,	JO Maintenance GT Pipeline	JO2	CM Scada Maintenance	Customer Demand Large Overpressure Event	Maintenance LRGOP-C016 Transmission SCADA	Ex 3, Ch 8	No	N/A	N/A	251.4	186.3	(65.1)	-25.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	NA
95	Expense	GT&S .	JO Maintenance GT Pipeline	JO2	CM Scada Maintenance	Downstream of Gas M&C Facility	Maintenance MCCPF-C002 Transmission SCADA	Ex 3, Ch 8	No	N/A	N/A	251.4	186.3	(65.1)	-25.9%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
96	Expense	GT&S ,	JO Maintenance	002	CM Scada Maintenance	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C002 Transmission SCADA Maintenance	Ex 3, Ch 8	No	N/A	N/A	251.4	0.0	(251.4)	-100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	NA
97	Expense	GT&S ,	GT Pipeline JO Maintenance	JOA	Cath Prot Rectifier Maintenanc	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	118.3	326.6	208.3	176.1%	NO	NO	# of rectifiers maintained	919	944	25	2.7%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target On-Target	Proceeding as Planned	N/A
98	Expense	GT&S ,	GT Pipeline JO Maintenance	JOA	Cath Prot Rectifier Maintenanc	Loss of Containment on Gas Transmission Pipeline	LOCTM-C019 Cathodic Protection	Ex 3, Ch 9	No	N/A	N/A	118.3	326.6	208.3	176.1%	N/A	N/A	N/A	919	944	25	2.7%	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
99	Expense	GT&S ,	GT Pipeline JO Maintenance	JOB	Cath Prot Monitoring	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	1,289.6	1,882.4	592.8	46.0%	NO	NO	# of CP monitoring point reads (P/S reads)	13,674	18,750	5,076	37.1%	YES	Below variance threshold.	Actual units were higher than imputed units due to Rectifier Bi-Monthly reads, specifically those taken via Remote Monitoring Unit (RMU) which were not counted as completed units before.	On-Target	On-Target On-Target	Proceeding as Planned	NA
100	Expense	GT&S ,	GT Pipeline JO Maintenance	JOB	Cath Prot Monitoring	Loss of Containment on Gas Transmission Pipeline	LOCTM-C019 Cathodic Protection	Ex 3, Ch 9	No	N/A	N/A	1,289.6	0.0	(1,289.6)	-100.0%	N/A	N/A	N/A	13,674	18,750	5,076	37.1%	N/A	NA	N/A	N/A	N/A N/A	N/A	N/A

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

	A		B C1 C2	C3 C4	C5	C6	C7	D	E	F	G	Н	- 1	J	К	L	М	N	0	P	Q	R	S	т	U1	U2	U3	V	W
Line No	Type (O&M Expense o Capital)	or A	ctional MWC MWC Nam	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs		Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units	Difference for 2023 (# of Units (O-N)	Unit Percent Variance for 2023 (%) ((O-N)/N*100)	Unit Variance Explanation Required (Y/N)		2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
101	Expense	e G	GT Pipeline T&S JO Maintenance	JOB Cath Prot Monitoring	Loss of Contrnm at Gas Measrm & Cntrl / Cmprsn & Prossn Facil	MCCPF-C018 Cathodic Protection	Ex 3, Ch 9	No	N/A	N/A	1,289.6	1,882.4	592.8	46.0%	N/A	N/A	N/A	13,674	18,750	5,076	37.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
102	Expense	e G	T&S JO Maintenance	JOB Cath Prot Monitoring	Loss of Containment at Natural Ga Storage Well or Reservoir	as NGSWR-C007 Cathodic Protection	Ex 3, Ch 9	No	N/A	N/A	1,289.6	1,882.4	592.8	46.0%	N/A	N/A	N/A	13,674	18,750	5,076	37.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
103	Expense	e G	GT Pipeline T&S JO Maintenance	JOC Cath Prot Troubleshoot	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	812.5	1,299.7	487.2	60.0%	NO.	NO.	if of CPA's troubleshot	1,787	3,032	1,245	69.7%	YES	Below variance threshold.	Actual units were higher than imputed units due to more units expering troublestones based upon moving to the SchWT-OPF Criteria 12022, which is more conservative compared to the prior -850ml/ Orf-criteria.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is orgoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to 2023 GRC period. The purpose of this program is to troubleshoot shattons where the Cathodic Protection System is providing inadequate protection for gas transmission assessed, based upon the Schoth 'Grif Criteria-Schoth' 'O'll' refers to the acceptance orteria applied when Transmission assessed (MAT JOB). Any read not meeting -850m' 'O'll' generates a Troubleshoot Notification under this program.
104	Expense	• G	T&S JO Maintenance	JOC Cath Prot Troubleshoot	Loss of Containment on Gas Transmission Pipeline	LOCTM-C019 Cathodic Protection	Ex 3, Ch 9	No	N/A	N/A	812.5	1,299.7	487.2	60.0%	N/A	N/A	NA	1,787	3,032	1,245	69.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
105	Expense	G G	T&S JO Maintenance	JOE Ground Leak Survey	SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	989.5	637.2	(352.3)	-35.6%	NO	NO	Miles Ground Leak Surveyed	440	477	37	8.4%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
106	Expense	. G	GT Pipeline T&S JO Maintenance	JOE Ground Leak Survey	Loss of Containment on Gas Transmission Pipeline	LOCTM-C020 Transmission Leak Management	Ex 3, Ch 10	No	N/A	N/A	989.5	637.2	(352.3)	-35.6%	N/A	N/A	N/A	440	477	37	8.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
107			GT Pipeline T&S JO Maintenance	Requird Ground Pipeline	CDM Total	SDM Total	Ex 3, Ch 8			Annual	1,036.7	842.6	(194.1)	-18.7%	NO.	NO.	Have	10,461	5,880	(4,581)	-43.8%	VES	Below variance threshold.	Actual units were lower than imputed units due to a change in the aerial patrol frequency. Aerial patrols were reduced from morthly to quarterly which reduced the number of ground patrol hours needed to support the flights.		On-Target		Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to perform patrols for compliance, as well as special investigations including, but not limited to, exavation, structural encroachments, earth movements, and changes to have present the programments.
			GT Pipeline	Requird Ground Pipeline	Loss of Containment on Gas	LOCTM-C012 Required Pipeline Patro			On-going N/A	N/A	1.036.7				N/A					(4,581)	-43.8%		Scion tundroc directions.	to support the rights.					Tantan Goodpanay.
108	Expense	9 6	T&S JO Maintenance GT Pipeline	JOF Patrol	Transmission Pipeline	Program	EX 3, Ch 8	No	N/A	N/A	1,036.7	842.6	(194.1)	-18.7%	N/A	N/A	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily	10,461	5,880	(4,581)	-43.8%	N/A	NA	NA	N/A	N/A	N/A	N/A	NA
109	Expense	e G	T&S JO Maintenance GT Pipeline	JOG PM G Regulator General		SRM Total LRGOP-C020 Transmission Regulator	Ex 3, Ch 8	No	On-going	Annual	3,957.0	3,671.1	(285.9)	-7.2%	NO	NO	equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
110	Expense	• G	T&S JO Maintenance	JOG PM G Regulator General	Large Overpressure Event Downstream of Gas M&C Facility	Maintenance	Ex 3, Ch 8	No	N/A	N/A	3,957.0	3,671.1	(285.9)	-7.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
111	Expense	G G	T&S JO Maintenance	JOG PM G Regulator General	Loss of Contrnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C014 Transmission Regulator Maintenance	Ex 3, Ch 8	No	N/A	N/A	3,957.0	3,671.1	(285.9)	-7.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
112	Expense	e G	GT Pipeline T&S JO Maintenance	PM Gas Pipeline Valve JOH Manual	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	1,495.4	1,448.5	(46.9)	-3.1%	NO NO	NO	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
440	Expense		GT Pipeline T&S JO Maintenance	PM Gas Pipeline Valve	Loss of Containment on Gas Transmission Pipeline	LOCTM-C013 PM Gas Pipeline Valves	s Ex 3, Ch 8	No.	N/A	N/A	1.495.4	1.448.5	(46.9)	-3.1%	N/A	N/A	ANA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/Δ	NIA
114			GT Pipeline T&S JO Maintenance	PM Gas Pipeline Valve	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	39.6	43.2	3.6	9.0%	NO NO	NO NO	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to unit.	N/A	N/A	N/A	N/A		Below variance threshold.	Not-Unitized.				Proceeding as Planned	N/A
115			T&S JO Maintenance	PM Gas Pipeline Valve JOI Automate	Loss of Containment on Gas Transmission Pipeline	LOCTM-C013 PM Gas Pipeline Valves Program	s Ex 3, Ch 8	No	N/A	N/A	39.6	43.2	3.6	9.0%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Expense		GT Pipeline T&S JO Maintenance	JOJ Gas Holders Maintenance		SRM Total	Ex 3, Ch 8		On-going	Annual	126.6	96.6	(30.0)	-23.7%	NO	NO	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A		Below variance threshold.	Not-Unitized.				Proceeding as Planned	NA
117	Expense		GT Pipeline T&S JO Maintenance	IO I Gas Holders Maintenance	Loss of Containment on Gas Transmission Pineline	LOCTM-C031 Gas Holder Maintenance	Ex 3, Ch 8	No	N/A	N/A	126.6	96.6	(30.0)	-23.7%	N/A	N/A	N/A	N/Δ	N/A	N/A	N/A	N/A	N/Δ	N/Δ	N/A	N/A	N/A	N/Δ	N/A
	Expense		GT Pipeline	JOK Oper Tranmission Pipeline		SRM Total	Ex 3, Ch 8			Annual	730.9	440.0	(290.9)	-23.7%	NO.	NO.	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A		Below variance threshold.	Not-Unitized.				Proceeding as Planned	N/A
118	T .		GT Pipeline		Loss of Containment on Gas	LOCTM-C023 Operate Transmission		No	On-going				, ,		NU	NO	equivalent to a unit.						DEIOW VARIANCE THRESHOLD.	INOC-CHILLEG.		_			IWA
119	Expense		T&S JO Maintenance GT Pipeline	JOK Oper Tranmission Pipeline	Large Overpressure Event	Pipelines LRGOP-C010 Operate Transmission	Ex 3, Ch 8	No	N/A	N/A	730.9	440.0	(290.9)	-39.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
120	Expense	G G	T&S JO Maintenance	JOK Oper Tranmission Pipeline	s Downstream of Gas M&C Facility	Pipelines	Ex 3, Ch 8	No	N/A	N/A	730.9	440.0	(290.9)	-39.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

	A		B C1	C2	СЗ	C4	C5	C6	C7	D	E	F	G	Н	- 1	J	К	L	м	N	0	Р	Q	R	S	т	01	<i></i>	U3	V	w
	Type (O&M Expense Capital)	or A	octional Area MWC	MWC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units	Difference for 2023 (# of Units) (O-N)	Manhauss for	Unit Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation		edule E, or T) (U,	ludget O, or T)	Status	Completion Status Statement
121	Expense	e G	GT&S JO M	GT Pipeline Maintenance	JOL S	Oper Transmission Regl Station	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	461.3	627.9	166.6	36.1%	NO	NO	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-	「arget O	ı-Target	Proceeding as Planned	WA
122	Expense	e G	ST&S JO M	GT Pipeline Maintenance	JOI S	Oper Transmission Regl Station	Large Overpressure Event Downstream of Gas M&C Facility	LRGOP-C020 Transmission Regulator Maintenance	Ex 3, Ch 8	No	N/A	N/A	461.3	627.9	166.6	36.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	VA.	N/A	N/A	¥A
400	Expense		G	GT Pipeline Maintenance		Oper Transmission Regl	•	MCCPF-C014 Transmission Regulator		N-	N/A	N/A	461.3	627.9	166.6	36.1%	N/A	N/A	N/A	N/Δ	N/A	N/A	N/A	N/A	N/A	NUA		VA.	N/A	N/A	NA.
124	Expense		G	GT Pipeline Maintenance	JOM C	CM G Regl Genl	SRM Total	SRM Total	Ex 3, Ch 8		On-going	Annual	1,117.1	1,276.3	159.2	14.3%	NO NO	NO	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A		Below variance threshold.	Not-Unitized.		Farget Or		Proceeding as Planned	NA
125	Expense	e G		GT Pipeline Maintenance	IOM (CM G Real Genl	Large Overpressure Event Downstream of Gas M&C Facility	LRGOP-C020 Transmission Regulator	Ex 3. Ch 8	No	N/Δ	N/Δ	1 117 1	1,276.3	159.2	14.3%	N/A	N/A	N/A	N/A	N/A	N/Δ	N/Δ	N/A	N/Δ	N/Δ			N/A	N/A	WA
120			G	GT Pipeline			Loss of Contnm at Gas Measrm &	MCCPF-C014 Transmission Regulator		140	1671	1471	.,,,,,,,								1671		10/1		IVA .	INA			1671	16/1	
120	Expense		G	Maintenance GT Pipeline Maintenance	c	CM G Regl Genl CM Gas Pipeline Valve	Cntrl / Cmprsn & Prossn Facil	Maintenance SRM Total	Ex 3, Ch 8		N/A	N/A Annual	950.0	1,276.3 724.2	(225.8)	14.3% -23.8%	N/A	N/A	NVA non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A N/A	N/A	N/A N/A	N/A	N/A	N/A Below variance threshold.	N/A Not-Initized		VA	N/A	N/A Proceeding as Planned	WA
			G	GT Pipeline	0011	CM Gas Pipeline Valve	Loss of Containment on Gas	LOCTM-C014 CM Gas Pipeline Valves			On-going						140	140	equivalent to a unit.						below variance uneshold.	NOTO HUZEU.					
128	Expense	e G	ST&S JO M	Maintenance	JON M	Vlanual	Transmission Pipeline	Program	Ex 3, Ch 8	No	N/A	N/A	950.0	724.2	(225.8)	-23.8%	N/A	N/A	N/A non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBSS) orders.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	VA.	N/A	N/A I	WA .
129	Expense	e G		GT Pipeline Maintenance		CM Gas Pipeline Valve Automate	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	222.3	603.8	381.6	171.7%	NO	NO	AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-	Target Or	-Target	Proceeding as Planned	WA
130	Expense	e G		GT Pipeline Maintenance		CM Gas Pipeline Valve Automate	Loss of Containment on Gas Transmission Pipeline	LOCTM-C014 CM Gas Pipeline Valves Program	Ex 3, Ch 8	No	N/A	N/A	222.3	603.8	381.6	171.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	VA.	N/A	N/A	WA.
131	Expense	e G		GT Pipeline Maintenance	JOP 0	CM G Main Lk	SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	11,169.5	1,556.1	(9,613.4)	-86.1%	NO	YES	Leaks Repaired	3,281	1,041	(2,240)	-68.3%	YES	Program expenses were below imputed regulatory values due to a decrease in the transmission leak find rate.	Actual units were lower than imputed units due to a decrease in the transmission leak find rate.	On-Target On-	Target Or	n-Target	l.	This program's demand driven work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to mitigate leaks.
132	Expense	e G		GT Pipeline Maintenance	JOP C	CM G Main Lk	Loss of Containment on Gas Transmission Pipeline	LOCTM-C020 Transmission Leak Management	Ex 3, Ch 10	No	N/A	N/A	11,169.5	1,556.1	(9,613.4)	-86.1%	N/A	N/A	N/A	3,281	1,041	(2,240)	-68.3%	N/A	N/A	NA	N/A	VA.	N/A	N/A I	WA
133	Expense	e G	G ST&S JO M	GT Pipeline Maintenance	JOQ C	Cath Protection Corr Maintne	nc SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	358.0	353.7	(4.3)	-1.2%	NO	NO	# of corrective work orders completed	324	237	(87)	-26.9%	YES	Below variance threshold.	Actual units were lower than imputed units due to less repairs required to resolve transmission troubleshoots. This is find it/fix it work. The number of low reads founds in 2023 was below the historic find rate.	On-Target On-	larget Or	n-Target		This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to respect gas transmission piping which is exposed to the atmosphere (i.e. spans and stations) for the presence of Atmospheric Corrosion.
134	Expense	e G		GT Pipeline Maintenance	JOQ C	Cath Protection Corr Maintne	Loss of Containment on Gas Transmission Pipeline	LOCTM-C019 Cathodic Protection	Ex 3, Ch 9	No	N/A	N/A	358.0	353.7	(4.3)	-1.2%	N/A	N/A	N/A	324	237	(87)	-26.9%	N/A	N/A	N/A	N/A	VA.	N/A	N/A	WA.
135	Expense	e G	G GT&S JO M	GT Pipeline Maintenance	JOR L	eak Rechecks	SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	264.5	75.6	(188.9)	-71.4%	NO	NO	Leak Rechecks	2,816	884	(1,932)	-68.6%	YES	Below variance threshold.	Actual units were lower than imputed units due to a reduction in transmission leak find rates.	On-Target On-	larget Or	-Target	Proceeding as Planned	This program's demand driven work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to mitigate leaks.
136	Expense	e G		GT Pipeline Maintenance	JOR	eak Rechecks	Loss of Containment on Gas Transmission Pipeline	LOCTM-C020 Transmission Leak Management	Ex 3. Ch 10	No	N/A	N/A	264.5	75.6	(188.9)	-71.4%	N/A	N/A	N/A	2,816	884	(1,932)	-68.6%	N/A	N/A	N/A	N/A	VA.	N/A	N/A	WA.
100	Expense		G	GT Pipeline Maintenance		Pipeline Marker Maintenance		SRM Total	Ex 3, Ch 8								NO.	NO.	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equipped		004				Below variance threshold.	Not-Unitized.		Farget Or			WA
			G	GT Pipeline			Loss of Containment on Gas	LOCTM-C015 Pipeline Marker			On-going	Annual	1,762.0	912.1	(849.9)	-48.2%	NO	NO	equivalent to a unit.	N/A	N/A	N/A	N/A		perow variable uneshold.	Nor-CritizedU.				Proceeding as Planned	vo.
138	Expense	e G	ST&S JO M	Maintenance	JOS F	Pipeline Marker Maintenance	Transmission Pipeline	Maintenance	Ex 3, Ch 8	No	N/A	N/A	1,762.0	912.1	(849.9)	-48.2%	N/A	N/A	N/A non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	VA.	N/A	N/A	WA
139	Expense	e G		GT Pipeline Maintenance	JOT V	egetation Management	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	1,521.5	1,446.9	(74.6)	-4.9%	NO	NO	Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-	larget Or	-Target	Proceeding as Planned	WA.
140	Expense	e G		GT Pipeline Maintenance	JOT V	/egetation Management	Loss of Containment on Gas Transmission Pipeline	LOCTM-C016 Vegetation Management	Ex 3, Ch 8	No	N/A	N/A	1,521.5	0.0	(1,521.5)	-100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	VA.	N/A	N/A	WA.

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

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	A	В	C1	C2	C3	C4	C5	C6	C7	D	E	F	G	Н	1	J	K Spending	L Percentage	M	N	0	Р	Q	R	S	Т	U1	U2	U3	V	W
Line No	Type (O&M expense or Capital)	Function Area	tional ea MWC	MWC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs		Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Variance Explanation Required (Y/N)	Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units	Difference for 2023 (# of Units (O-N)		Unit Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
141	Expense	GT&	&S JO	GT Pipeline Maintenance	JOT	Vegetation Management	Large Overpressure Event Downstream of Gas M&C Facility		Ex 3, Ch 8	No	N/A	N/A	1,521.5	1,446.9	(74.6)	-4.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₩A	N/A	N/A	N/A	N/A	N/A
142	Expense	GT&	.io	GT Pipeline Maintenance	JOT	Vegetation Management	Loss of Contrnm at Gas Measrm & Cntrl / Cmprsn & Prossn Facil	MCCPF-C008 Vegetation Management	Ex 3. Ch 8	No	N/A	N/A	1,521.5	1,446.9	(74.6)	-4.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Expense			GT Pipeline Maintenance		Requird Aerial Pipeline Par		SRM Total	Ex 3, Ch 8		On-going	Annual	4,822.8	2,450.6	(2,372.1)	-49.2%	NO NO	NO	Miles Aerial Patrolled	125,656	25,769	(99,887)	-79.5%		Below variance threshold.	Actual units were lower than imputed units due to a change in the patrol frequency from monthly to quarterly, in alignment with regulatory requirements.				Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to conduct aerial pipeline patrol to observe surface conditions on and adjacent to the gas transmission pipeline right-of-way (ROW).
144	Expense	GT&	8S IO	GT Pipeline Maintenance	IOV I	Penuird Aerial Pineline Pa	Loss of Containment on Gas trol Transmission Pipeline	LOCTM-C012 Required Pipeline Patro Program	Ex 3. Ch 8	No	N/A	N/A	4.822.8	2.450.6	(2.372.1)	-49.2%	N/A	N/A	N/A	125.656	25.769	(99.887)	-79.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
145	Expense			GT Pipeline Maintenance		Aerial Leak Survey	SRM Total	SRM Total	Ex 3, Ch 10	No	On-going	Annual	2.493.7	1.653.9	(839.8)	-33.7%	NO		Miles Aerial Leak Surveved	12.807	12.487	(320)	-2.5%	NO	Below variance threshold.	Below variance threshold.	On-Target			Proceeding as Planned	N/A
140	-			GT Pipeline		,	Loss of Containment on Gas	LOCTM-C020 Transmission Leak		1.60					,,,,,,							(020)									
146	Expense Expense	GT&		Maintenance GT Pipeline Maintenance	JOW 4	Aerial Leak Survey PM Meter Maintenance	Transmission Pipeline	Management SRM Total	Ex 3, Ch 10	No No	N/A	N/A Annual	1,948.5	1,653.9	(839.8)	-33.7% 15.4%	N/A	N/A	NA non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit	12,807	12,487	(320) N/A	-2.5% N/A	N/A	N/A Below variance threshold.	Not-Unitized.	N/A On-Target	N/A On-Target	N/A On Torrect	N/A Proceeding as Planned	N/A
147	Expense	0.0	uc 30	GT Pipeline	JOX	I III III III III III II II II II II II	Large Overpressure Event	Gran Total	Exo, on o	140	On-going	Airiuai	1,540.3	2,241.1	255.2	13.476	160	140	equivalent to a ann.	18/	INA	1870	N/A		DOON TURNING THEOREM.	Not-Grazzo.	On raiget	Olivitalget	Oir raiges	1100ccung up 1 minou	
148	Expense	GT&	&S JO	Maintenance	JOX	PM Meter Maintenance	Downstream of Gas M&C Facility	LRGOP-C012 Meter Maintenance	Ex 3, Ch 8	No	N/A	N/A	1,948.5	2,247.7	299.2	15.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
149	Expense	GT&	&S JO	GT Pipeline Maintenance	JOY	CM Meter Maintenance	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	288.8	301.8	12.9	4.5%	NO	NO	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
150	Expense	GT&	&S JO	GT Pipeline Maintenance	JOY	CM Meter Maintenance	Large Overpressure Event Downstream of Gas M&C Facility	LRGOP-C012 Meter Maintenance	Ex 3, Ch 8	No	N/A	N/A	288.8	301.8	12.9	4.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
151	Expense	GT&	&S JO	GT Pipeline Maintenance	JOZ	Atmospheric Corrosion Inspect	SRM Total	SRM Total	Ex 3, Ch 9	No	On-going	Annual	500.2	87.9	(412.3)	-82.4%	NO	NO	# of inspections completed	487	226	(261)	-53.6%	YES	Below variance threshold.	Actual units were lower than imputed units due to the number of atmospheric corrosion (AC) inspections regired to be completed in 2023. AC inspections are performed on a three year cycle (per Subpart 1 of 40 CFR 192) and the annual unit counts are not balanced.	On-Target	On-Target	On-Target	Proceeding as Planned	This program has no end date. The purpose of this program is to inspect Gas Transmission piping which is exposed to the atmosphere (i.e. spans and stations) for the presence of Atmospheric Corrosion.
152	Expense	GT&	.io	GT Pipeline Maintenance	.107	Atmospheric Corrosion Inspect	Loss of Containment on Gas Transmission Pipeline	LOCTM-C034 Atmospheric Corrosion Program	Ex 3. Ch 9	No	N/A	N/A	500.2	87.9	(412.3)	-82.4%	N/A	N/A	N/A	487	226	(261)	-53.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
153	Expense	GT&	&S JO	GT Pipeline Maintenance	JO# ^(c)	Not assigned	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	0.0	105.9	105.9	100.0%	NO	NO	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	Over	Proceeding as Planned	NA.
154	Expense	GT&	&S JP	GT Station Maintenance	JPA -	PM StorCompStat Piping Assets	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	980.5	1,222.3	241.7	24.7%	NO	NO	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA .
455	Expense	GT&		GT Station Maintenance	JPA A	PM StorCompStat Piping Assets	Loss of Contrin at Gas Measin &	MCCPF-C001 Transm Comprsr Station Corrective & Prevnt Maintn	Ex 3, Ch 8	No	N/A	N/A	980.5	1,222.3	241.7	24.7%	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	AVA	N/A	N/A	N/A	N/A	N/A
	Expense			GT Station Maintenance	JPB	CM StorCompStat Piping Assets	SRM Total	SRM Total	Ex 3, Ch 8	No No	On-going	Annual	980.5 473.1	1,222.3	(285.1)	-60.3%	NO NO	N/A NO	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBS) orders. AMBSS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A		Below variance threshold.	Not-Unitized.				Proceeding as Planned	N/A
157	Expense	GT&	&S JP	GT Station Maintenance		CM StorCompStat Piping Assets	Loss of Contrim at Gas Measrm & Critrl / Cmprsn & Prossn Facil	MCCPF-C001 Transm Comprsr Station Corrective & Prevnt Maintn	Ex 3, Ch 8	No	N/A	N/A	473.1	188.0	(285.1)	-60.3%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
158	Expense	GT&	&S JP	GT Station Maintenance	JPC	PM StorCompStat GasProcess	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	1,919.6	2,375.0	455.3	23.7%	NO	NO	non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBSS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
159	Expense	GT&	&S JIP	GT Station Maintenance		PM StorCompStat GasProcess	Loss of Contrnm at Gas Measrm & Cntrl / Cmprsn & Prossn Facil	MCCPF-C001 Transm Comprsr Station Corrective & Prevnt Maintn	Ex 3, Ch 8	No	N/A	N/A	1,919.6	2,375.0	455.3	23.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
160	Expense			GT Station Maintenance		PM StorCompStat GasCompressor	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	1,810.3	3,335.1	1,524.9	84.2%	NO NO	NA.	mon-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A		Below variance threshold.	Not-Unitized.				Proceeding as Planned	NA.

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

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	Type	ВС	1 C2	C3	C4	C5	C6		D	E	F	G	Н		J Spending	Spending	Percentage	M	N	0	P	Unit Percent	R Unit Variance	S 2023	T 2023	U1	U2 U3 Forecast	V	W
Line	(O&M	Functional MV	WC MWC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control	2023 GRC Testimony	RAMP Roll-up	Program / Project Life	Program /	2023 Imputed	2023 Actual Costs	Difference for 2023 (\$)	Percent Variance	Variance Explanation	Variance Explanation	Unit Type	2023 Imputed	2023 Actual	Difference for 2023 (# of Units)	Variance for	Explanation	Cost	Unit	Scope	Schedule Budget	Status	Completion Status Statement
No	Expense or Capital)	Area					Name	Reference	(Yes/No)	(years)	Project Year	Adopted Costs		(H-G)	for 2023 (%) ((H-G)/G*100)	Required (Y/N)	Required (Y/N)		Adopted Units	Units	(O-N)	2023 (%) ((O-N)/N*100)	Required (Y/N)	Variance Explanation	Variance Explanation	(U, O, or T)	(U, O, or T) (U, O, or T)		• • • • • • • • • • • • • • • • • • • •
			GT Station		PM StorCompStat	Loss of Contnm at Gas Measrm &	MCCPF-C001 Transm Comprer																						
161	Expense	GT&S J	P Maintenance	JPD (GasCompressor	Cntrl / Cmprsn & Prcssn Facil	Station Corrective & Prevnt Maintn	Ex 3, Ch 8	No	N/A	N/A	1,810.3	3,335.1	1,524.9	84.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N	Α
																		non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset											
			GT Station															Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily											
162	Expense	GT&S J	P Maintenance	JPE I	PM StorCompStat Support		SRM Total	Ex 3, Ch 8	No	On-going	Annual	2,279.9	2,467.9	187.9	8.2%	NO	NO	equivalent to a unit.	N/A	N/A	N/A	N/A	NO	N/A	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned N	A
163	Expense	GT&S J	GT Station Maintenance	.IPF	PM StorCompStat Support	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C001 Transm Comprsr Station Corrective & Prevnt Maintn	Ex 3. Ch 8	No	N/A	N/A	2,279.9	2,467.9	187.9	8.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N	A
												2,2.0.0	2,	101.10			1211	The MAT beautiful to the beautiful to th											
																		non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset											
			GT Station		CM StorCompStat													Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily											
164	Expense	GT&S J	P Maintenance GT Station		GasProcess CM StorCompStat	SRM Total Loss of Contnm at Gas Measrm &	SRM Total	Ex 3, Ch 8	No	On-going	Annual	983.5	1,628.4	644.9	65.6%	NO	NO	equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned N	A
165	Expense	GT&S J	P Maintenance	JPG	GasProcess	Cntrl / Cmprsn & Prossn Facil	Station Corrective & Prevnt Maintn	Ex 3, Ch 8	No	N/A	N/A	983.5	1,628.4	644.9	65.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N	Α
																		non-unitized: This MAT has no measurable units because											
																		majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders.											
166	Expense	GT&S J	GT Station Maintenance		CM StorCompStat GasCompress	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	2,071.3	2,625.3	554.0	26.7%	NO	NO	AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned N	Α
	Expense	GT&S J	GT Station IP Maintenance	.IPH	CM StorCompStat GasCompress	Loss of Contrim at Gas Measrm & Cntrl / Cmprsn & Prossn Facil	MCCPF-C001 Transm Comprsr Station Corrective & Prevnt Maintn	Ex 3, Ch 8	No	N/A	N/A	2,071.3	2,625.3	554.0	26.7%	N/A	N/A		N/A	N/A	N/A	N/A	N/A			N/A	N/A N/A	N/A N	
167	Expense	GI&S J	Maintenance	JPH (GasCompress	Critri / Cmprsn & Prossn Facil	Station Corrective & Prevnt Maintn	Ex 3, Ch 8	No	N/A	N/A	2,0/1.3	2,625.3	554.0	26.7%	N/A	N/A	non-unitized: This MAT has no measurable units because	N/A	N/A	N/A	N/A	NA	NA	NA .	N/A	N/A N/A	N/A N	A
																		majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders.											
400	Expense	GT&S J	GT Station Maintenance	ID.	CM StorCompStat Support	CDM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	1.525.4	687.9	(837.5)	-54.9%	NO.	NO	AMBBS records "operations" which are not necessarily equivalent to a unit.	N/Δ	N/A	N/A	N/Δ	NO.	Below variance threshold.	Not-I Initized	On-Target	On-Target On-Target	Proceeding as Planned N	
168	Expense	GIAS J	GT Station	JPI	CM StorCompStat Support	Loss of Contrim at Gas Measin &		EX 3, CII 6	No	On-going	Annual	1,525.4	687.9	(837.5)	-54.9%	NU	NO	equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance unreshold.	Not-Unitized.	On-Target	On-rarget On-rarget	Proceeding as manned in	•
169	Expense	GT&S J	P Maintenance	JPI (CM StorCompStat Support	Cntrl / Cmprsn & Prossn Facil	Station Corrective & Prevnt Maintn	Ex 3, Ch 8	No	N/A	N/A	1,525.4	687.9	(837.5)	-54.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N	Α
																		non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset											
																		Maintenance Backbone and Station (AMBBS) orders.											
170	Expense	GT&S J	GT Station IP Maintenance	JPK I	PM Power Units	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	139.2	330.5	191.3	137.4%	NO	NO	AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned N	A
		GT&S J	GT Station		PM Power Units	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C015 Power Units	Ex 3, Ch 8			N/A				137.4%	N/A	N/A	21/2	N/A				N/A			N/A	N/A N/A	N/A N	
1/1	Expense	GIAS J	P Maintenance	JPK I	PWI POWER URIES	Criti / Cripish & Prossi Facil	Mantenance	EX 3, UII 6	No	N/A	N/A	139.2	330.5	191.3	137.4%	N/A	N/A	non-unitized: This MAT has no measurable units because	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A N/A	N/A IN	ч.
																		majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders.											
		GT&S J	GT Station IP Maintenance		CM Power Units	SRM Total	SRM Total	Ex 3, Ch 8	No					109.7				AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO.	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned N	
1/2	Expense	GIAS J	GT Station	JPL 1	CM Power Units	Loss of Contrim at Gas Measin &		EX 3, CH 6	No	On-going	Annual	276.9	386.6	109.7	39.6%	NO	NO	equivalent to a unit.	N/A	N/A	N/A	N/A	NO	below variance trireshold.	Not-Unitized.	On-Target	On-rarget On-rarget	Proceeding as manned in	
173	Expense	GT&S J	P Maintenance	JPL (CM Power Units		Maintenance	Ex 3, Ch 8	No	N/A	N/A	276.9	386.6	109.7	39.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N	A
																		non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset											
			GT Station															Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily											
174	Expense	GT&S J	P Maintenance	JPN S	Station Operations	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	6,026.6	6,033.3	6.7	0.1%	NO	NO	equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned N	A
175	Expense	GT&S .i	GT Station Maintenance	l man	Station Operations	Large Overpressure Event Downstream of Gas M&C Facility	LPCOR COOT Station Control	Ex 3. Ch 8		N/A	N/A	0.000.0	6,033.3	6.7	0.40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	AWA	N/A	N/Δ	N/A N/A	N/A N	
1/5	cxpense	GIAS J	GT Station	JPN 3	oranon Operations		ENGOR-COUT SIBION OPERATIONS	£X 3, UII 8	NO	N/A	N/A	6,026.6	6,033.3	6.7	0.1%	N/A	N/A	INA	N/A	N/A	N/A	N/A	N/A	N/A	INA	N/A	N/A N/A	N/A N	n.
176	Expense	GT&S J	P Maintenance	JPN S	Station Operations	Loss of Contrim at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C016 Station Operations	Ex 3, Ch 8	No	N/A	N/A	6,026.6	6,033.3	6.7	0.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N	A
																		non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset											
																		Maintenance Backbone and Station (AMBBS) orders.											
177	Expense	GT&S J	GT Station IP Maintenance	JPO I	PM Storage Wells	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	570.3	384.9	(185.3)	-32.5%	NO	NO	AMBBS records "operations" which are not necessarily equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned N	A
			GT Station	1 7		Loss of Containment at Natural Gas	NGSWR-C005 Preventive and									·													
178	Expense	GT&S J	IP Maintenance	JPO I	PM Storage Wells	Storage Well or Reservoir	Corrective Maintenance	Ex 3, Ch 8	No	N/A	N/A	570.3	384.9	(185.3)	-32.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N	A.
																		non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset											
			GT Station															Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily											
179	Expense	GT&S J	P Maintenance	JPP (CM Storage Wells		SRM Total	Ex 3, Ch 8	No	On-going	Annual	81.3	9.8	(71.5)	-88.0%	NO	NO	equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target On-Target	Proceeding as Planned N	A
180	Expense	GT&S J	GT Station IP Maintenance	JPP (CM Storage Wells	Loss of Containment at Natural Gas Storage Well or Reservoir	NGSWR-C005 Preventive and Corrective Maintenance	Ex 3, Ch 8	No	N/A	N/A	81.3	9.8	(71.5)	-88.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N	A
180	Expense	GT&S J	IP Maintenance	JPP (CM Storage Wells	Storage Well or Reservoir	Corrective Maintenance	Ex 3, Ch 8	No	N/A	N/A	81.3	9.8	(71.5)	-88.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N	A

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

A B	C1 C2 C	3 C4	C5	C6	C7	D	E	F	G	Н	ı	J	К	L	М	N	0	Р	Q	R	s	Т	U1 U2	U3	v	w
Type Line (O&M Functional No Expense or Capital)	MWC Name M	AT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	AMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs 20	123 Actual Costs		Spending ercent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units	Difference for 2023 (# of Units (O-N)		Unit Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation	Scope Schedule (U, O, or T)	Budget	Status	Completion Status Statement
	GT Station														non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" withic are not necessarily											
181 Expense GT&S	JP Maintenance JF GT Station	Q CARB Leak Survey	SRM Total Loss of Containment at Natural Gas	SRM Total	Ex 3, Ch 10	No	On-going	Annual	3,270.3	3,332.5	62.2	1.9%	NO	NO	equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	t On-Target	Proceeding as Planned	N/A
182 Expense GT&S	JP Maintenance JF	CARB Leak Survey	Storage Well or Reservoir	Management Leak	Ex 3, Ch 10	No	N/A	N/A	3,270.3	3,332.5	62.2	1.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
	GT Station														non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily											
183 Expense GT&S	JP Maintenance Ji GT Station	R CARB Leak Repairs	SRM Total Loss of Contnm at Gas Measrm &	SRM Total MCCPF-C001 Transm Comprar	Ex 3, Ch 10	No	On-going	Annual	2,544.7	416.1	(2,128.6)	-83.6%	NO	NO	equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	t On-Target	Proceeding as Planned	N/A
184 Expense GT&S	JP Maintenance Ji	R CARB Leak Repairs	Cntrl / Cmprsn & Prcssn Facil	Station Corrective & Prevnt Maintn	Ex 3, Ch 10	No	N/A	N/A	2,544.7	416.1	(2,128.6)	-83.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
185 Expense GT&S	GT Station JP Maintenance Ji	R CARB Leak Repairs	Loss of Containment at Natural Gas Storage Well or Reservoir	s NGSWR-C006 CARB Leak Management	Ex 3, Ch 10	No	N/A	N/A	2,544.7	416.1	(2,128.6)	-83.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
186 Expense GT&S	GT Station	W ^(c) Not assigned	SRM Total		Ex 3, Ch 8					401.1					non-unitized: This MAT has no measurable units because majority of the orders under these MATs exist as Asset Maintenance Backbone and Station (AMBBS) orders. AMBBS records "operations" which are not necessarily									t Over		
186 Expense G1&S	JP Maintenance JP	Wot assigned	SRM Iotal	SPON TOTAL	EX 3, Ch 8	No	On-going	Annual	0.0	401.1	401.1	100.0%	NU	NO	equivalent to a unit.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	t Over	Proceeding as Planned	N/A
187 Expense GT&S	GT Reliability & JT General Maint J	70 Public Awareness	SRM Total	SRM Total	Ex 3, Ch 5	No	Organisa	Annual	3,436.6	2,117.3	(1.319.3)	-38.4%	NO.	NO.	non-unitized: This MAT has no measurable units because it is our furning for the Public Awareness program management. This MAT supports the outreach required pursuant to API Pet 152 which contains many achitise to include direct mailings to parties with properties within 1000 of a popient, other educational material publication, other educational material publication, other educational material publication, other educational material publication accident media postings, etc. This program also manages documentation. There are no specific curts associated with the activities performed in the Public Awareness MAT to meet the requirements of PS 1162.	. NA	N/A	N/A	N/A	NO.	Below variance threshold.	Not-l littlored	On-Target On-Targe	t On-Target	Proceeding as Planned	NA
	GT Reliability &		Loss of Containment on Gas								,,,,,,															
188 Expense GT&S	JT General Maint J	"0 Public Awareness	Transmission Pipeline	LOCTM-C011 Public Awareness	Ex 3, Ch 5	No	N/A	N/A	3,436.6	2,117.3	(1,319.3)	-38.4%	N/A	N/A	N/A non-unitized: This MAT has no measurable units because	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
	GT Reliability &														it is used to record costs for various types of non- capitalizable work related to pipe investigations and field											
189 Expense GT&S	JT General Maint J	1 Engineering Support	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	2,572.2	(33.9)	(2,606.0)	-101.3%	NO	NO	engineering support.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	t On-Target	Proceeding as Planned	N/A
190 Expense GT&S	GT Reliability & JT General Maint J	1 Engineering Support	Loss of Containment on Gas Transmission Pipeline	LOCTM-C027 Pipe Investigations and Field Engineering	d Ex 3, Ch 5	No	N/A	N/A	2,572.2	(33.9)	(2,606.0)	-101.3%	N/A	N/A	NA NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
	GT Reliability &														non-unitized: This MAT has no measurable units because it is used to record costs for monitoring jurisdictional water crossings, jurisdictional levee crossings, and non- jurisdictional water crossings. The type of work											
191 Expense GT&S	JT General Maint J	2 Water and Levee Crossi		SRM Total LOCTM-C007 Shallow and Exposed	Ex 3, Ch 5	No	On-going	Annual	1,386.5	465.7	(920.9)	-66.4%	NO	NO	performed are not comparable.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	t On-Target	Proceeding as Planned	N/A
192 Expense GT&S	GT Reliability & JT General Maint J	'2 Water and Levee Crossi	Loss of Containment on Gas ings Transmission Pipeline	Pipe (Including Water and Levee Crossing	Ex 3, Ch 5	No	N/A	N/A	1,386.5	465.7	(920.9)	-66.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
193 Expense GT&S	GT Reliability &	3 ⁽ⁱ⁾ Fault Crossings	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	1,076.2	180.3	(895.9)	-83.2%	NO	NO.	non-unitized: This MAT has no measurable units because it is used to record costs for conducting studies of where gas transmission pipelines cross active and potentially active earthquake fault lines, and monitoring fault creep. The type of work performed are not comparable.	N/A	N/A	N/Δ	N/A	NO.	Below variance threshold.	Not-I Initized	On-Target On-Targe	t On-Target	Proceeding as Planned	N/A
	GT Reliability &		Loss of Containment on Gas	LOCTM-C004 Earthquake Fault	Ex 3, Ch 5		99																			
194 Expense GT&S 195 Expense GT&S	JT General Maint J1 GT Reliability &	Fault Crossings Shallow and Exposed Pi	Transmission Pipeline	Crossings SRM Total	Ex 3, Ch 5	No No	N/A	N/A Annual	2.751.3	180.3	(1.809.1)	-83.2%	N/A	N/A	Miss	N/A	N/A	N/A	-75.0%	N/A	NA Below variance threshold.	N/A Actual units were lower than imputed units due to reprioritization in support of higher risk or compliance work	N/A N/A Under On-Targe	N/A t On-Target	N/A Proceeding as Planned	INA This programs work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to mitigate locations where a pleeline has insufficient cover, is vulnerable to damage from third parties, or has become exposed due to natural forces.
190 Expense 3165	GT Reliability &	« — сланом ани съровец FII	Loss of Containment on Gas	LOCTM-C007 Shallow and Exposed	EX 3, GII 3	NO	Orifgoing	ATTUR	2,751.3	942.1	(1,009.1)	-03.076	, NO	140		4.00	1.00	(3.00)	-/5.0%	120	PARTY THIRD STRONG	postupessand WUI h.,	Of-Flarge	Oirraiget	. roccoung as r'aimed	proposed and to Islated at Infloto.
196 Expense GT&S	JT General Maint J	4 Shallow and Exposed Pi	ipe Transmission Pipeline	Pipe (Including Water and Levee Crossing	Ex 3, Ch 5	No	N/A	N/A	2,751.3	942.1	(1,809.1)	-65.8%	N/A	N/A	N/A	4.00	1.00	(3.00)	-75.0%	N/A	NA	N/A	N/A N/A	N/A	N/A	N/A
197 Expense GT&S	GT Reliability & JT General Maint J	'6 Pipe Replacements - (<5		SRM Total	Ex 3, Ch 5	No	On-going	Annual	11,283.9	697.6	(10,586.3)	-93.8%	YES	YES	Miles	0.17	0	(0)	-100.0%	YES	Program expenses were below imputed regulatory values because less work materialized owing to scope of work not meeting the 50 foot threshold.	Actual units were lower than imputed units due to less work materialized owing to scope of work not meeting the 50 foot threshold.	On-Target On-Targe	t On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to implement Non-TIMP expense pipe replacements as an alternative option to strength testing.
198 Expense GT&S	GT Reliability & JT General Maint J	'6 Pipe Replacements - (<5	Loss of Containment on Gas 50Ft) Transmission Pipeline	LOCTM-M003 Non-TIMP Strength Testing	Ex 3, Ch 5	No	N/A	N/A	11,283.9	697.6	(10,586.3)	-93.8%	N/A	N/A	Miles	0.17	0	(0)	-100.0%	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
199 Expense GT&S	GT Reliability & JT General Maint J	Gas Quality Assessment		SRM Total	Ex 3, Ch 6	No	On-going	Annual	2,124.3	1,559.8	(564.5)	-26.6%	NO	NO.	non-unitized: This MAT has no measurable units because MAT includes programmatic costs for ongoing activities which are not unitized.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	t On-Target	Proceeding as Planned	N/A
200 Expense GT&S	GT Reliability & JT General Maint J	Gas Quality Assessment 8 Exp	t - Large Overpressure Event Downstream of Gas M&C Facility	LRGOP-C005 Gas Quality Assessment - Expense	Ex 3, Ch 6	No	N/A	N/A	2,124.3	1,559.8	(564.5)	-26.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

	А	В	C1 C2	C3	C4	C5	C6	C7	D	E	F	G	Н	ı	J	К	L	М	N	0	Р	Q	R	S	т	U1 U2	U3	V	w
Line No	Type (O&M Expense or Capital)	Functi er Are		MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units	Difference for 2023 (# of Units (O-N)		Unit Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation	Scope Schedule (U, O, or T)	Budget	Status	Completion Status Statement
201	Expense	GT8	GT Reliability & General Maint	JT8	Gas Quality Assessment - Exp	Loss of Contrim at Gas Measirm & Critrl / Cmprsn & Prossn Facil	MCCPF-C027 Gas Quality Assessment - Expense	Ex 3, Ch 6	No	N/A	N/A	2,124.3	1,559.8	(564.5)	-26.6%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA NA	N/A	NA	N/A
202	Expense	GT8	GT Reliability & SS JT General Maint	JT9	Hydrostatic Tstng - Class Lctn	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	899.5	179.1	(720.4)	-80.1%	NO	NO	non-unitized: This MAT has no measurable units because mitigation lengths for class location change cannot be ascertained until the completion of annual class location studies.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	: On-Target	Proceeding as Planned	N/A
203	Expense	GT8	GT Reliability & SS .IT General Maint	.IT9	Hydrostatic Tstng - Class Lctn	Loss of Containment on Gas Transmission Pipeline	LOCTM-C025 Class Location Change	Ex 3. Ch 5	No	N/A	N/A	899.5	179 1	(720.4)	-80 1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
204	Expense	GT8	GT Reliability & &S JT General Maint	JTB	Pipeline Repair	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	6,834.6	4,751.9	(2,082.7)	-30.5%	NO	NO	non-unitized: This MAT has no measurable units because it is used to record costs for various types of expense work related to TIMP pipeline repair.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	On-Target	Proceeding as Planned	N/A
205	Expense	GT8	GT Reliability & SS JT General Maint	ITD	Pipeline Repair	Loss of Containment on Gas Transmission Pipeline	LOCTM-C008 Pipeline Safety and	Ex 3. Ch 5	No	N/A	N/A	6.834.6	4.751.9	(2.082.7)	-30.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
205	Expense	GT8	GT Reliability &	JTC	Hydrostatic Tstng D.11-06- 017	SRM Total	SRM Total	Ex 3, Ch 5	No.	On-going	Annual	0.0	1,650.3	1,650.3	100.0%	NO.	NO.	Miles	0	0	0	0.0%	NO.	Below variance threshold.	Below variance threshold.	On-Target On-Targe		Proceeding as Planned	N/A
207	Expense	GT8	GT Reliability &	ITC	Hydrostatic Tstng D.11-06-	Loss of Containment on Gas	LOCTM-M003 Non-TIMP Strength	Ex 3. Ch 5	No	N/A	N/A	0.0	1,650.3	1 650 3	100.0%	N/Δ	NA	N/Δ	0			0.0%	N/Δ	N/A	N/A	N/A N/A	N/A	N/A	N/Δ
207	Expense	GT8	GT Reliability &	JIC	Pipeline Other	SRM Total	SRM Total	Ex 3, Ch 5	No.			18,985.0	4,525.2	(14,459.8)	-76.2%	NA	WEG	non-unitized: This MAT has no measurable units because it is used to record costs for various types of expense work related to TIMP pipeline investigation.	N/A	N/A	N/A	0.0% N/A	NA NA	Program expenses were below imputed regulatory values due to reprioritization in support of higher risk or compliance work.	Not-Lightized	Under Under	Under	Rescheduled	Due to reprioritization to higher risk or compliance work, program activities have been delayed.
208			GT Reliability &	JID		Loss of Containment on Gas	LOCTM-C027 Pipe Investigations and		No	On-going	Annual					TES	155	work related to TIMP pipeline investigation.					NO	support of nigher risk of compliance work.	Not-Unitized.				program activities have been delayed.
209	Expense	GT8	SS JT General Maint	JTD	Pipeline Other	Transmission Pipeline	Field Engineering	Ex 3, Ch 5	No	N/A	N/A	18,985.0	4,525.2	(14,459.8)	-76.2%	N/A	N/A	NA non-unitized: This MAT has no measurable units because it is used to record costs for permits and fees associated with the operations of Gas Transmission stations.	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA NA	N/A	N/A	N/A
210	Expense	GT8	&S JT General Maint	JTH	Permits & Fees Projects	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 8	No	On-going	Annual	7,906.4	8,973.7	1,067.2	13.5%	NO	NO	(Examples include McDonald Island Reclamation Fees, Gas Lease Fees, Department of Transportation Fees). not-unitized: This MAT has no measurable units because this MAT includes a mix of work involved in maintaining	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	On-Target	Proceeding as Planned	N/A
211	Expense	GT8	GT Reliability & SS JT General Maint	JTK	Vegetation Manage Project	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	16,877.2	7,398.0	(9,479.3)	-56.2%	NO	YES	transmission Right-Of-Ways (ROW), some of which can be tracked in units (ex: tree removals), while some cannot like inspections.	N/A	N/A	N/A	N/A	NO	Program expenses were below imputed regulatory values due to reprioritization in support of higher risk or compliance work.	Not-Unitized.	On-Target On-Targe	: On-Target	Proceeding as Planned	N/A
212	Expense	GT8	GT Reliability & SS JT General Maint	JTK	Vegetation Manage Project	Loss of Containment on Gas Transmission Pipeline	LOCTM-C017 Vegetation Manage Project	Ex 3, Ch 8	No	N/A	N/A	16,877.2	7,398.0	(9,479.3)	-56.2%	NO		non-unitized: This MAT has no measurable units because this MAT includes a mix of work involved in maintaining transmission Right-Of-Ways (ROW), some of which can be tracked in units (ex: tree removals), while some cannot like inspections.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
213	Expense	GT8	GT Reliability & &S JT General Maint	JTL	FIMP Risk Management	SRM Total	SRM Total	Ex 3, Ch 6	No	On-going	Annual	2,790.5	1,842.9	(947.6)	-34.0%	NO	NO	non-unitized: This MAT has no measurable units because MAT includes programmatic costs for ongoing activities which are not unitized.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	On-Target	Proceeding as Planned	N/A
214	Expense	GT8	GT Reliability & &S JT General Maint	JTL	FIMP Risk Management	Large Overpressure Event Downstream of Gas M&C Facility	LRGOP-C006 FIMP Risk Assessment	Ex 3, Ch 6	No	N/A	N/A	2,790.5	1,842.9	(947.6)	-34.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
	Expense		GT Reliability &				MCCPF-C022 FIMP Risk Assessment			N/A	N/A					N/A			N/A	N/A		N/A	N/A					N/A	
2.10			GT Reliability &									2,790.5	1,842.9	(947.6)	-34.0%	N/A	N/A	N/A non-unitized: This MAT has no measurable units because it is used to record costs to increase capacity of a hydraulically independent system as an alternative to	1875	187	N/A		N/A	IWA .	INA .		N/A		INPA
216	Expense	GT8	&S JT General Maint GT Reliability &	JTM	Uprates	SRM Total Insufficient Capacity to Meet	SRM Total	Ex 3, Ch 11	No	On-going	Annual	997.8	72.1	(925.7)	-92.8%	NO	NO	increasing capacity by installing new facilities.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Below variance threshold.	On-Target On-Targe	On-Target	Proceeding as Planned	N/A
217	Expense	GT8	&S JT General Maint	JTM	Uprates	Insufficient Capacity to Meet Customer Demand	CPCTY-M004 GT Capacity Uprates	Ex 3, Ch 11	No	N/A	N/A	997.8	72.1	(925.7)	-92.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
218	Expense	GT8	GT Reliability & SS JT General Maint	JTO	Encroachments Structures & ROW	SRM Total	SRM Total	Ex 3, Ch 8	No	On-going	Annual	1,264.5	981.9	(282.7)	-22.4%	NO	NO	non-unitized: This MAT has no measurable units because it combines different workstreams, access roads and structural encroachments, in a single MAT.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	: On-Target	Proceeding as Planned	NA
219	Expense	GT8	GT Reliability & SS JT General Maint	OTL	Encroachments Structures & ROW	Loss of Containment on Gas Transmission Pipeline	LOCTM-C018 Encroachments	Ex 3, Ch 8	No	N/A	N/A	1,264.5	981.9	(282.7)	-22.4%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
220	Expense	GT8	GT Reliability & SS JT General Maint	DTL	Class Location Studies	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	2,185.1	1,588.1	(596.9)	-27.3%	NO	NO	non-unitized. This MAT has no measurable units because it is an continuous, annual class location study. The annual class location study. The annual serial photography, occupancy field werlination; creation of a digitated structures layer, and annual class annual serials annual class annual	N/A	N/A	N/A	N/A	NO NO	Below variance threshold.	Not-Unitized.	On-Target On-Targe	On-Target	Proceeding as Planned	N/A

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

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	Type	В	C1 C2	L3	C4	C5	Cb	- 01	D	E	F	G	н	<u> </u>	Spending	Spending	Percentage	M	N	0	P	Unit Percent	N.	2023	2023	U1	Forecast	U3	V	w
No E	(O&M	Functional Area	MWC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	2023 (\$)	Percent Variance for 2023 (%) ((H-G)/G*100)	Variance Explanation Required (Y/N)	Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units	Difference for 2023 (# of Units (O-N)	Variance for	Explanation Required (Y/N)	Cost Variance Explanation	Unit Variance	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
221	Expense	GT&S	GT Reliability & General Maint	JTQ	Class Location Studies	Loss of Containment on Gas Transmission Pipeline	LOCTM-C025 Class Location Change	Ex 3, Ch 5	No	N/A	N/A	2,185.1	1,588.1	(596.9)	-27.3%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A
222	Expense	GT&S	GT Reliability & JT General Maint	JTR	Valve Program	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	1,370.7	930.1	(440.6)	-32.1%	NO		non-unitized: This MAT is non-unitized because it is used to record costs for various types of non-capitalizable work related to valve program	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
223	Expense	GT&S	GT Reliability & JT General Maint	JTR	Valve Program	Loss of Containment on Gas Transmission Pipeline	LOCTM-C024 Valve Safety and Reliability	Ex 3, Ch 5	No	N/A	N/A	1,370.7	930.1	(440.6)	-32.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
224	Expense	GT&S	GT Reliability & JT General Maint	ЛП	Geo-Hazard Mitigations	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going	Annual	127.2	158.9	31.7	24.9%	NO		non-unitized: This MAT has no measurable units because it is used to record costs for mitigating geo-hazards such as soil-creep, dormant landslides with potential to re- activate, and subsidence. The type of mitigation work performed are not comparable.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
225	Expense	GT&S	GT Reliability & JT General Maint	JTT	Geo-Hazard Mitigations	Loss of Containment on Gas Transmission Pipeline	LOCTM-C001 Geo-Hazard Threat Identification and Mitigation	Ex 3, Ch 5	No	N/A	N/A	127.2	158.9	31.7	24.9%	N/A	N/A	N/A	0	0	0	0.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
226	Expense	GT&S	GT Reliability & JT General Maint	JTV	Station Strength Test Exp C&P	SRM Total	SRM Total	Ex 3, Ch 6	No	15	4	2,279.0	555.1	(1,723.9)	-75.6%	NO		non-unitized: This MAT has no measurable units because project work that occurs under this MAT is non-fungible and covers a wide range of asset types, and scope of assets requiring work.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
227	Expense	GT&S	GT Reliability & JT General Maint	JTV	Station Strength Test Exp C&P	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-M006 Station Strength Test	Ex 3, Ch 6	No	N/A	N/A	2,279.0	555.1	(1,723.9)	-75.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
228	Expense	GT&S	GT Reliability & JT General Maint	JTW	Routine Spend M&C - Expense	SRM Total	SRM Total	Ex 3, Ch 6	No	On-going	Annual	4,676.5	4,102.9	(573.6)	-12.3%	NO	NO	non-unitized: This MAT has no measurable units because this is a routine spend MAT. Includes a combination non- fungible project work and programmatic activities.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
229	Expense	GT&S	GT Reliability & JT General Maint		Routine Spend M&C - Expense	Large Overpressure Event Downstream of Gas M&C Facility	LRGOP-C004 Routine Spend M&C	Ex 3, Ch 6	No	N/A	N/A	4,676.5	4,102.9	(573.6)	-12.3%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
230	Expense	GT&S	GT Reliability & JT General Maint	JTW	Routine Spend M&C - Expense	Loss of Contrim at Gas Measrm & Critri / Cmprsn & Prossn Facil	MCCPF-C007 Routine Spend M&C	Ex 3, Ch 6	No	N/A	N/A	4,676.5	4,102.9	(573.6)	-12.3%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A

2023 GRC CYCLE GT&S EXPENSE COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

Δ	ВС	1 (2	C3	C4	C5	C6	C7	n I	F	F	G	н			ĸ		м	N	Ι ο	Р		R	8	т		U1 U2	IB.	V	W
Type (O&M Funi o Expense or Capital)	nctional Area MV	WC MWC Na		MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	n Unit Type	2023 Imputed Adopted Units	2023 Actual Units	Difference for 2023 (# of Units (O-N)	Unit Percent Variance for 2023 (%) ((O-N)/N*100)	Unit Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation	5	Forecas Cope Scheduli O, or T) (U, O, or	Budget	Status	Completion Status Statement
Expense G	ST&S J	GT Reliabili		GT Over Pressure Protect	tion SRM Total	SRM Total	Ex 3, Ch 6	No	On-going	Annual	0.0	1,056.6	1,056.6	100.0%	NO	NO	non-unitized: This MAT has no measurable units because it is an expense code that captures a variety of studies, reports, and small projects that support PG&E's Overpressure Elimination program objectives, all of which have different tasks and costs that are not comparable.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On	-Target On-Targe	t Over	Proceeding as Planned	N/A
Expense G	ST&S J	GT Reliabili General Ma		GT Over Pressure Protect	Large Overpressure Event tion Downstream of Gas M&C Facility	LRGOP-M002 GT Overpressure Protection	Ex 3, Ch 6	No	N/A	N/A	0.0	1,056.6	1,056.6	100.0%	N/A	N/A	N/A non-unitized: This MAT has no measurable units because	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A N/A	N/A	N/A	N/A
Expense G	ST&S J	GT Reliabili General Ma		Routine Spend C&P Exper	nse SRM Total	SRM Total	Ex 3, Ch 6	No	On-going	Annual	8,776.7	9,186.7	410.0	4.7%	NO	NO	this is a routine spend MAT. Includes a combination non- fungible project work and programmatic activities.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On	-Target On-Targe	t On-Target	Proceeding as Planned	N/A
Expense G	ST&S J	GT Reliabili General Ma GT PL Safe	aint JTY	Routine Spend C&P Exper	Loss of Contrim at Gas Measrm & Contri / Cmprsn & Prcssn Facil	MCCPF-C020 Routine Spend C&P	Ex 3, Ch 6	No	N/A	N/A	8,776.7	9,186.7	410.0	4.7%	N/A	N/A	N/A non-unitized: This MAT has no measurable units as it is	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A N/A	N/A	N/A	N/A
Expense G	ST&S K	Enhance Pl		PSEP Pipeline Other Expe	ense SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 5	No	On-going	Annual	0.0	207.4	207.4	100.0%	NO	NO	being used to capture extended environmental remediation costs related to completed PSEP projects. non-unitized: This MAT has no measurable units because	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On	-Target On-Targe	t Over	Proceeding as Planned	N/A
Expense G	ST&S L	GTS Mana		Critical Documents - Expe		SRM Total	Ex 3, Ch 6	No	On-going	Annual	0.0	467.7	467.7	100.0%	NO	NO	non-unitized: I his MAI has no measurable units because project work that occurs under this MAI is non-fungible and covers a wide range of asset types, and scope of assets requiring work.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On	-Target On-Targe	t Over	Proceeding as Planned	N/A
Expense G	ST&S L	U Critical Doc		Critical Documents - Expe	Large Overpressure Event nse Downstream of Gas M&C Facility	LRGOP-M004 Critical Documents Program	Ex 3, Ch 6	No	N/A	N/A	0.0	467.7	467.7	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A N/A	NA	N/A	N/A
Expense G	ST&S L	GTS Manag U Critical Doc		Critical Documents - Expe	Loss of Contrim at Gas Measrm & nse Cntrl / Cmprsn & Prcssn Facil	MCCPF-M001 Critical Documents Program	Ex 3, Ch 6	No	N/A	N/A	0.0	467.7	467.7	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A N/A	N/A	N/A	N/A
Expense G	ST&S L		nts-BA LV1	Engineering Crtcl Assmnt	1 SRM Total	SRM Total	Ex 3, Ch 6	No	On-going	Annual	0.0	1.6	1.6	100.0%	NO	NO	non-unitized: This MAT has no measurable units because project work that occurs under this MAT is non-fungible and covers a wide range of asset types, and scope of assets requiring work.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On	-Target On-Targe	t Over	Proceeding as Planned	N/A
Expense G	ST&S L	GTS Statio V Assessmen		Engineering Crtcl Assmnt	Loss of Contnm at Gas Measrm & 1 Cntrl / Cmprsn & Prcssn Facil	MCCPF-M007 Engineering Critical Assessment 1	Ex 3, Ch 6	No	N/A	N/A	0.0	1.6	1.6	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A N/A	N/A	N/A	N/A
Expense G	ST&S L	GTS Statio V Assessmen		Engineering Crtcl Assmnt	2 SRM Total	SRM Total	Ex 3, Ch 6	No	15	4	5,474.2	3,061.9	(2,412.3)	-44.1%	NO	NO	non-unitized: This MAT has no measurable units because project work that occurs under this MAT is non-fungible and covers a wide range of asset types, and scope of assets requiring work.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-Unitized.	On	-Target On-Targe	t On-Target	Proceeding as Planned	N/A
Expense G	ST&S L	GTS Statio V Assessmen	n its-BA LV2	Engineering Crtcl Assmnt	Loss of Contrnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-M008 Engineering Critical Assessment 2	Ex 3, Ch 6	No	N/A	N/A	5,474.2	3,061.9	(2,412.3)	-44.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A N/A	N/A	N/A	N/A
Expense G	TRC O	Operational Manageme	I OM# (c)	Not assigned	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ev 2 Ch 12	No.	0	A1	8 663 8	2 700 0	(4.054.0)	-57 2%	NO.	NO.	non-unitized: This MAT has no measurable units because this program records labor costs.	N/A	N/A	N/A	N/A	NO.	Below variance threshold.	Not-Unitized.	00	Torget On Torge	t On Toront	Proceeding as Planned	N/Δ

Expense GTAS Of MM Management MM # Not assigned SRM Total (Non-RAMP) SRM

TABLE 2-10
2023 RSAR
2023 GRC CYCLE GT&S CAPITAL COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

A		В	C1	C2	C3	C4	C5	C6	C7	T D T	-	F G	н		1 .	K		М	N	0	D .		R	1 0	T	114	110	110	V	W
Typ Line (O8	ю	ntional				MAT Name		RAMP Mitigation and/o	2023 GRC	RAMP P	rogram / Pro	ram / 2023 Im	puted ooo a	Differenc	Spending Percent Variance fo 2023 (%)	Spending	Percentage Variance	,	2023 Imputed	2023	Difference for 2023 (#	Unit Percent Variance for	Unit Variance Explanation	2023 Cost	2023 Unit	01	U2 Forecast	- 03		
No Expen	se or A	rea	MWC	MWC Name	MAI	MAI Name	RAMP Risk Name	Control Name	Reference	(Yee/No)	Life Y (years)	oject Adop ear Cos	ted ts Costs	for 2023 (: (H-G)	2023 (%) ((H- G)/G*100)	Required	Required (Y/N)	Unit Type	Adopted Units	Actual Units	of Units) (O-N)	2023 (%) ((O-N)/N*100)	Required (Y/N)	Variance Explanation	Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T	Budget (U, O, or T)	Status	Completion Status Statement
1 Capital	GT&S	3	21 M	Aisc Capital		POM Non- gineering Capital	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	N/A	No C	On-going Ar	nual 0.C	1,373.:	1,373.1	100.0%	NO	NO	non-unitized: This MAT has no measurable units because it encompasses a variety of different activities – it is used to capture GPOM non-engineering capital routine transmission spend.	N/A	N/A	N/A	N∕A	NO	Below variance threshold.	Not-unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A
2 Capital	GT&S	3	E	GT PL Safety Enhance Plan- Cap	2H1 PS	EP	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 5	No C	On-going Ar	nual 0.0	25.3	25.3	100.0%	NO	NO	non- unitized: This MAT has no measurable units as it is no longer used for project execution. This captures ongoing settlement costs related to acquisitions of easements for completed PSEP projects.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A
3 Capital	GT&S	s	зк С	Gas Trans Remediate Corrosion	3K1 Dr	p Replacement	SRM Total	SRM Total	Ex 3, Ch 9	No C	On-going A	nual 14,16	1.5 2,622.5	(11,539.0) -81.5%	NO	YES	Drips Replaced	5	5	0	0.0%	NO	Program expenditures were below imputed regulatory values due to work bundling with projects near a drip resulting in a lower unit cost.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to mitigate internal Corrosion by removing drips.
4 Capital	GT&S	5	R	Gas Trans Remediate Corrosion	3K1 Dr	p Replacement	Loss of Containment on Gas Transmission Pipeline	LOCTM-C032 Internal Corrosion Program	Ex 3, Ch 9	No	N/A I	VA 14,16	1.5 2,622.5	(11,539.0) -81.5%	N/A	N/A	N/A	5	5	0	0.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 Capital	GT&S		R	Gas Trans Remediate Corrosion	3K1 Dr	p Replacement	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C017 Facility Corrosion Control Program	m Ex 3, Ch 9	No	N/A I	VA 14.16	1.5 2.622.5	(11.539.0) -81.5%	N/A	N/A	N/A	5	5	0	0.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6 Capital	GT&S	3	R	Gas Trans Remediate Corrosion	3K4 AC	Interf Mitigation	SRM Total	SRM Total	Ex 3, Ch 9	No C	On-going Ai	nual 3,276	5.6 3,813.2	536.6	16.4%	NO	NO	Various	14	9	(5)	-32.8%	YES	Below variance threshold.	Actual units were lower than imputed units due to: 1) a shortage of custom-order main materials for AC Mitigation projects, which are not stock materials and require 8-months to receive from the manufacturer, and 2) reprioritization in support of higher risk or compliance work.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to mitigate AC Interference.
7 Capital	GT&S	3	R	Gas Trans Remediate Corrosion	3K4 A0	Interf Mitigation	Loss of Containment on Gas Transmission Pipeline	LOCTM-C033 Electrical Interference Program	Ex 3, Ch 9			VA 3,276		536.6	16.4%	N/A	N/A	NA	14	9	(5)	-32.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8 Capital	GT&S	6	R	Sas Trans Remediate Corrosion	3K5 Ca	sing Mitigation	SRM Total	SRM Total	Ex 3, Ch 9	No C	On-going A	nual 14,76	5.6 12,540.	(2,225.0)	-15.1%	NO	NO	Various	11	14	3	27.3%	YES	Below variance threshold.	Actual units were higher than imputed units due to bundling casing pipeline replacement with three casing pipelines being replaced under one project.		On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to mitigate contacted casings.
9 Capital	GT&S	3	3K C	Sas Trans Remediate Corrosion	3K5 Ca	sing Mitigation	Loss of Containment on Gas Transmission Pipeline	LOCTM-C035 Transmission					5.6 12,540.			N/A	N/A	N/A	11	14	3	27.3%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 Capital	GT&S		R	Remediate Corrosion	3K6 Ne	thodic Protection- w	SRM Total	SRM Total	Ex 3, Ch 9	No C	On-going Ar	nual 1,644	1.0 2,765.7	1,121.7	68.2%	NO	NO	# of new CP systems installed	5	5	0	0.0%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	NA

2023 GRC CYCLE GT&S CAPITAL COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

A	В	C1	C2	C3 C4	C5	C6	C7	D E	F	G	Н	- 1	J Spending	K	L	М	N	0	Р	Q	R	S	Т	U1	U2	U3	V	W
Type Line (O&M	Functiona	.				RAMP Mitigation and/or	2023 GRC	RAMP Progr		m / 2023 Impute	ed 2023 Actua	Difference	Percent Variance for	Spending Variance	Percentage Variance		2023 Imputed	2023	Difference for 2023 (#	Unit Percent Variance for	Unit Variance Explanation	2023 Cost	2023 Unit		Forecast			
No Expense Capital	or Area	" MWC	MWC Name	MAT Name	RAMP Risk Name	Control Name	restimony	Roll-up (Yes/No) Proj Lif		t Adopted Costs	Costs	for 2023 (\$) (H-G)	Variance for 2023 (%)	Required	Explanation Required	Unit Type	Imputed Adopted Units	Actual Units	of Units) (O-N)	2023 (%) ((O-N)/N*100)	Required (Y/N)	Variance Explanation	Variance Explanation	Scope	Schedule	Budget	Status	Completion Status Statement
Сарітаі			Gas Trans					(уеа	115)				G)/G*100)	(Y/N)	(Y/N)		Units		(O-N)	((O-N)/N 100)	(1/N)	Explanation	Explanation	(U, O, or T)	(U, O, or T) (U	J, O, or T)		
11 Capital	GT&S	314	Remediate Corrosion	Cathodic Protection-	Loss of Containment on Gas Transmission Pipeline	LOCTM-C019 Cathodic Protection	Ex 3, Ch 9	No N/	A N/A	1,644.0	2,763.2	1,119.2	68.1%	N/A	N/A N/A		5	5		0.0%	N/A	NA	N/Δ	N/A	N/A	N/A	N/A	N/Δ
Поприл	0.00	JIK.	Gas Trans	Sito New	Loss of Contnm at Gas		Ex 0, Giro	140	180	1,044.0	2,700.2	1,110.2	00.170	140	IVA IVA		,			0.070	1471				16/1	1671	1071	
12 Capital	GT&S	зк	Remediate Corrosion	Cathodic Protection- 3K6 New	Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C018 Cathodic Protection	Ex 3, Ch 9	No N/	A N/A	1,644.0	2,765.7	1,121.7	68.2%	N/A	N/A N/A		5	5	0	0.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Gas Trans Remediate	Cathodic Protection-	Loss of Containment at Natural	NGSWR-C007 Cathodic																						
13 Capital	GT&S	3K	Corrosion	3K6 New	Gas Storage Well or Reservoir	Protection	Ex 3, Ch 9	No N/	A N/A	1,644.0	2,765.7	1,121.7	68.2%	N/A	N/A N/A		5	5	0	0.0%	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
			O T																				Actual units were higher than imputed units due to a higher volume of groundbed replacements					This program's work is ongoing and will continue in PG&E's 2023 GRC
			Gas Trans Remediate	Cathodic Protection-																			required to maintain effective levels of cathodic					period. The purpose of this program is a continuing effort to replace fail
14 Capital	GT&S	3K	Corrosion Gas Trans	3K7 (a) Replacemen Cathodic Protection-	SRM Total	SRM Total LOCTM-C019 Cathodic	Ex 3, Ch 9	No On-g	oing Annua	4,174.7	7,192.2	3,017.5	72.3%	NO	NO Various		22	30	8	36.4%	YES	Below variance threshold.	protection.	On-Target	On-Target C	On-Target Pr	roceeding as Planned	Cathodic Protection systems.
15 Capital	GT&S	зк	Remediate Corrosion	3K7 (a) Replacemen	Loss of Containment on Gas Transmission Pipeline	Protection Cathodic	Ex 3, Ch 9	No N/	A N/A	4,174.7	7,192.2	3,017.5	72.3%	N/A	N/A N/A		22	30	8	36.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Gas Trans	Cathodia Protection	Loss of Contnm at Gas	MCCPF-C018 Cathodic																						
16 Capital	GT&S	зк	Remediate Corrosion	3K7 ^(a) Cathodic Protection- Replacemen	Measrm & Cntrl / Cmprsn & Prcssn Facil	Protection Catrious	Ex 3, Ch 9	No N/	A N/A	4,174.7	7,192.2	3,017.5	72.3%	N/A	N/A N/A		22	30	8	36.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Gas Trans Remediate	Cathodic Protection-	Loss of Containment at Natural	NGSWR-C007 Cathodic																						
17 Capital	GT&S	3K	Corrosion	3K7 ^(a) Replacemen	Gas Storage Well or Reservoir	Protection	Ex 3, Ch 9	No N/	A N/A	4,174.7	7,192.2	3,017.5	72.3%	N/A	N/A N/A		22	30	8	36.4%	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
																							Actual units were lower than imputed units due to no capital test station (CTS) installation					
			Gas Trans																				(over 5 units) required to be installed. Only 1					This program's work is ongoing and will continue in PG&E's 2023 GRC
18 Capital	GT&S	зк	Remediate Corrosion	Test Station 3K8 Installation	SRM Total	SRM Total	Ex 3, Ch 9	No On-g	oing Annua	ıl 129.9	7.3	(122.7)	-94.4%	NO	NO # of tes	t stations installed	5	0	(5)	-100%	YES	Below variance threshold.	CTS per mile is required, which was met and completed.	On-Target	On-Target C	On-Target Pr	roceeding as Planned	period. The purpose of this program is to install Coupon Test Stations to monitor the pipeline.
			Gas Trans Remediate	Test Station	Loss of Containment on Gas	LOCTM-C019 Cathodic																						
19 Capital	GT&S	3K	Corrosion	3K8 Installation	Transmission Pipeline	Protection	Ex 3, Ch 9	No N/	A N/A	129.9	7.3	(122.7)	-94.4%	N/A	N/A N/A		5	0	(5)	-100%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Gas Trans																				Actual units were lower than imputed units due to: 1) delays on permits required to perform					This program's work is ongoing and will continue in PG&E's 2023 GRC
20 Capital	GT&S	3К	Remediate Corrosion	Electrical Interference	SRM Total	SRM Total	Ex 3, Ch 9	No On-o	oina Annua	6,254.1	4,724.8	(1,529.3)	-24.5%	NO	NO # of pro	iects completed	40		(34)	-85.0%	VES	Below variance threshold.	the work, and 2) reprioritization in support of higher risk or compliance work.	On Target	On Target C	n Target Pr	roceeding as Planned	period. The purpose of this program is a continuing effort to mitigate DC
20 Сарка	0100	JI.	Gas Trans				EX 5, GIT 8	No On-g	oing Annua	0,234.1	4,724.0	(1,329.3)	-24.376	140	# or pro	увска сотпристои	40	-	(34)	-85.076	120	Delow variance unesticut.	nigher has or compliance work.	OlFraiget	Offraiget	ziriaiget 11	roceeding as rialined	interretion.
21 Capital	GT&S	зк	Remediate Corrosion	3K9 DC	- Loss of Containment on Gas Transmission Pipeline	LOCTM-C033 Electrical Interference Program	Ex 3, Ch 9	No N/	A N/A	6,254.1	4,724.8	(1,529.3)	-24.5%	N/A	N/A N/A		40	6	(34)	-85.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																							Actual units were lower than imputed units as the majority of project costs were realized in					This program's customer demand driven work is ongoing and will continue
			Gas Trans																				2023 but completed units weren't captured until early 2024. The length of the job determines	1				in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to mitigate atmospheric corrosion on transmission main spans found
22 Capital	GT&S	21/	Remediate Corrosion	3KA Atmospheric Corrosio	n SPM Total	SRM Total	Ex 3. Ch 9	No On-a	oing Annua	al 326.4	2.047.9	1,721.4	527.5%	NO	NO # of end	ns and stations recoated	_		(4)	-80.0%	VES	Below variance threshold.	whether it becomes capital, and this is not always known until the job occurs.	On Target	On Target C	n Target Pr	roceeding as Planned	during atmospheric corrosion inspections when the length of the coating remediation exceeds 100 continuous feet.
22 Capital	0100	JK.	Gas Trans	SKA Autospheric Corrosio	TOTAL TOTAL			No On-g	oing Annua	320.4	2,047.6	1,721.4	327.3%	140	# Of ape	ins and stations recoated	3	<u>'</u>	(4)	-80.076	120	Delow variance unesticut.	always known that the job occurs.	OlFTalget	OfFraiget	ziriaiget 11	roceeding as rialined	Terriedador excesso 100 continuos rest.
23 Capital	GT&S	3K	Remediate Corrosion	3KA Atmospheric Corrosio	Loss of Containment on Gas Transmission Pipeline	LOCTM-C034 Atmospheric Corrosion Program	ic Ex 3, Ch 9	No N/	a NA	326.4	2.047.8	1.721.4	527.5%	N/A	N/A N/A		5	1	(4)	-80.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		1			· ·						2,00	.,,,,	0211011						(.,								•	
																							Actual units were lower than imputed units due to: 1) majority of the work for one new well					This program's work is ongoing and will continue in PG&E's 2023 GRC
																							was done in 2023, but the unit was not completed until 2024, and 2) another unit was					period. The purpose of this program is to drill wells or redrill (replace) wells, including installation and cementing of production tubing, gravel pack
24 Capital	GT&S	3L	Gas Trans Storage Wells	3L1 WELL - Drilling	SRM Total	SRM Total	Ex 3, Ch 7	No On-g	oing annua	19,867.0	23,992.3	4,125.2	20.8%	NO	NO # of we	lls drilled	3	1	(2)	-66.7%	YES	Below variance threshold.	not completed owing to permit delays that impacted the drilling start date	On-Target	On-Target C	On-Target Pr	roceeding as Planned	completion, tubing and packer installation, wellhead components and any ancillary or surface equipment required.
			Gas Trans		Loss of Containment at Natural	NGSWP M001 Well																						
25 Capital	GT&S	3L	Storage Wells	3L1 WELL - Drilling	Gas Storage Well or Reservoir	Drilling	Ex 3, Ch 7	No N/	A N/A	19,867.0	23,992.3	4,125.2	20.8%	N/A	N/A N/A		3	1	(2)	-66.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																						Program expenditures exceeded imputed regulatory						This program's work is ongoing and will continue in PG&E's 2023 GRC
26 Capital	GT&S	3L	Gas Trans Storage Wells	3L3 ^(b) WELL - Reworks	SRM Total	SRM Total	Ex 3, Ch 7	No On-g	oing annua	66,326.2	89,198.9	22,872.8	34.5%	YES	YES Various		19	25	6	28.7%	YES	values due to carryover costs from 2022 work that was recorded in 2023.	to incremental wells scheduled to complete required compliance activities.	On-Target	On-Target C	On-Target Pr	roceeding as Planned	period. The purpose of this program is a continuing effort to rework and retrofit wells.
			Gas Trans		Loss of Containment at Natural	NGSMB C003 Mail																						
27 Capital	GT&S	3L	Storage Wells	3L3 (b) WELL - Reworks	Gas Storage Well or Reservoir	Inspections and Rework	Ex 3, Ch 7	No N/	A N/A	66,326.2	89,198.9	22,872.8	34.5%	N/A	N/A N/A		19	25	6	28.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
															measur	ized: This MAT has no able units because it contains												
28 Capital	GT&S	3L	Gas Trans Storage Wells	3L4 (c) WELL - Repair and Replace	SRM Total	SRM Total	Ex 3, Ch 7	No On-g	oing annua	0.0	2,290.3	2,290.3	100.0%	NO	NO project	rework units and other work which is not unitized.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-unitized.	On-Target	On-Target	Over Pr	roceeding as Planned	N/A
			Gas Trans	WELL - Repair and	Loss of Containment at Natural	NGSWR-C008 Well Repair	nir																					
29 Capital	GT&S	3L	Storage Wells	3L4 (c) Replace	Gas Storage Well or Reservoir	and Replace	Ex 3, Ch 7	No N/	A N/A	0.0	2,290.3	2,290.3	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																ized: This MAT has no												
30 Capital	GT&S	31	Gas Trans Storage Wells	WELL - Cntrls & Cont 3L5 (d) Monitrng	SRM Total	SRM Total	Ex 3, Ch 7	No On-o	oing annua	1 436.8	154.4	(1 282 4)	-89 3%	NO	measur	able units because it contains ineous component work.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-unitized.	On-Target	On-Target C	On-Target Pr	roceeding as Planned	N/A
oo oupnul	1	J JL						Oil-y	g amilia	,450.0	1,54.4	(1,202.4)	03.070		missolie									gut	got C			l ·

2023 GRC CYCLE GT&S CAPITAL COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

	Α	В	C1	C2	C3 C4	C5	C6	C7	D	E	F G	Н	1	J	К	L	М	N O	P	Q	R	s	Т	U1	U2	U3	V	W
	Type (O&M		.					2023 GRC	RAMP	Program / Program	gram / 2023 Impute	d 2023 Actua	Difference	Percent		Percentage Variance		2023 2023	Difference for 2023 (#	Unit Percent		2023 Cost	2023 Unit		Forecast			
Line No	Expense	or Area	Mwc	MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	Testimony		Project Pr	oject Adopted ear Costs	2023 Actua Costs			Explanation	n Explanation Required	Unit Type	Adopted Actual Units	of Units)	2023 (%)	Required	Variance	Variance	Canna	Cahadula	Budget	Status	Completion Status Statement
	Capital)							(163/110)	(years)	eai Costs		(11-0)	((H- G)/G*100)	(Y/N)	(Y/N)		Units	(O-N)	((O-N)/N*100)	(Y/N)	Explanation	Explanation	(U, O, or T)	(U, O, or T	(U, O, or T)	
31	Capital	GT&S	31	Gas Trans Storage Wells	WELL - Cntrls & Con Monitrng	ts Loss of Containment at Natura Gas Storage Well or Reservo	al NGSWR-C002 Well Control ir Monitoring	Ex 3. Ch 7	No	N/A I	VA 1.436.8	154.4	(1.282.4)	-89.3%	N/A	N/A N	VA.	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			1	Capital: GasT	r						,																	
32	Capital	GT&S	44	ans-Sub	44A (e) Stan-Pac Capital	SRM Total	SRM Total	Ex 3, Ch 13	No	On-going Ar	nual 3,242.6	434.2	(2,808.4)	-86.6%	NO	NO V	/arious	0 0	0	0%	NO I	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
33	Capital	GT&S	44	Capital:GasT ans-Sub	44A (e) Stan-Pac Capital	Loss of Containment on Gas Transmission Pipeline	LOCTM-C037 Stan-Pac Capital	Ex 3, Ch 13	No	N/A I	VA 3,242.6	434.2	(2,808.4)	-86.6%	N/A	N/A N	VA.	0 0	0	0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
													,,,,,,															
																	on-unitized: This MAT has no neasurable units because the					Program expenditures exceeded imputed values due to the execution of two large gas transmission						This program's work is ongoing and will continue in PG&E's 2023 GRC
24	Capital	GT&S	70	GT Pipeline Capacity	Capacity for Load	SRM Total	SRM Total	Ex 3. Ch 11	No	0	nual 6,757.3	20,000.0	15,275.2	226.1%	NO	p	rogram features multiple asset types vithout a common unit.	N/A N/A	N/Δ	N/Δ		capacity projects on DFM-0405-01 and DFM-0406- 01 serving the Napa and Calistoga region.	Not-unitized.	On Torget	On Torget	On-Target	Draggading on Diagnosi	period. The purpose of this program is a continuing effort to install gas transmission facilities to meet non-customer specific demand growth.
34	Capital	GT&S	13	GT Pipeline	Capacity for Load	Insufficient Capacity to Meet		-,, -	INO	On-going Ar	nual 6,757.3	22,032.0	15,275.2	220.1%	INO.	1E3 W	vidious a common unis.	N/A N/A	INA	NA	NO	or serving the Napa and Calistoga region.	Not-unitized.	On-ranger	Oli-Talget	OFFIAIget	Proceeding as Fiantied	transmission racilities to meet non-customer specific demand growth.
35	Capital	GT&S	73	Capacity	73A Growth	Customer Demand	Load Growth	Ex 3, Ch 11	No	N/A 1	VA 6,757.3	22,032.6	15,275.2	226.1%	N/A	N/A N	VA.	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																	on-unitized: This MAT has no neasurable units because the											
																р	rogram captures expenditures for the											
																(á	ncremental capacity work only; costs and units) for the original capacity											
36	Capital	GT&S	73	GT Pipeline Capacity	73B Capacity Betterment	SRM Total	SRM Total	Ex 3, Ch 11	No	On-going Ar	nual 984.3	2,691.8	1,707.5	173.5%	NO	NO M	rojects are captured in the originating MWC or MAT.	N/A N/A	N/A	N/A	NO	Below variance threshold.	Not-unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
				GT Pipeline		Insufficient Capacity to Meet	CPCTY-M002 Capacity																					
37	Capital	GT&S	73	Capacity	73B Capacity Betterment	Customer Demand	Betterment Capacity	Ex 3, Ch 11	No	N/A I	VA 984.3	2,691.8	1,707.5	173.5%	N/A	N/A N	VA.	N/A N/A	N/A	N/A	N/A I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																	on-unitized: This MAT has no											
	Capital	GT&S	73	GT Pipeline Capacity	73D LNG / CNG	SRM Total	SRM Total	Ex 3, Ch 5			nual 4,489.5		1,291.5			m	neasurable units due to the extensive ariability of the work portfolio.	N/A N/A	N/A	N/A	NO	Below variance threshold.	Not-unitized.	O- T	O- T	On-Target	Proceeding as Planned	AVA
			/3	GT Pipeline		Loss of Containment on	LNCNG-C001 LNG/CNG								NO		ariability of the work portiolio.					Below variance threshold.	Not-unitized.					N/A
39	Capital	GT&S	73	Capacity GT Pipeline	73D LNG / CNG	LNG/CNG Portable Equipment Loss of Containment on Gas	LOCTM-C002 LNG/CNG to	Ex 3, Ch 5			VA 4,489.5	5,781.0	1,291.5	28.8%	N/A	N/A N	VA .	N/A N/A	N/A	N/A	N/A I	N/A	N/A	N/A	N/A	N/A	N/A	NA
40	Capital	GT&S	73	Capacity	73D LNG / CNG	Transmission Pipeline	Support Strength Testing	Ex 3, Ch 5	No	N/A 1	VA 4,489.5	5,781.0	1,291.5	28.8%	N/A	N/A N	VA.	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																	on-unitized: This MAT has no											
																m	neasurable units because it includes wide assortment of "find-it and fix-it"											
																р	rojects that are typically routine or											
41	Capital	GT&S	75	GT Pipeline Reliability	Routine Spend M&C - 75C Capital	SRM Total	SRM Total	Ex 3, Ch 6	No	On-going Ar	nual 18,442.8	11,510.9	(6,931.9)	-37.6%	NO		inique occurrences and do not qualify or another program.	N/A N/A	N/A	N/A	NO I	Below variance threshold.	Not-unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
				GT Pipeline	Routine Spend M&C	Large Overpressure Event Downstream of Gas M&C	LRGOP-C004 Routine																					
42	Capital	GT&S	75	Reliability	75C Capital	Facility Loss of Contnm at Gas	Spend M&C	Ex 3, Ch 6	No	N/A 1	VA 18,442.8	11,510.9	(6,931.9)	-37.6%	N/A	N/A N	VA.	N/A N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
				GT Pipeline	Routine Spend M&C	Measrm & Cntrl / Cmprsn &	MCCPF-C007 Routine			l l .												L						L
43	Capital	GT&S	75	Reliability	75C Capital	Prcssn Facil	Spend M&C	Ex 3, Ch 6	No	N/A 1	VA 18,442.8	11,510.9	(6,931.9)	-37.6%	N/A	N/A N	VA	N/A N/A	N/A	N/A	N/A I	N/A	NA	N/A	N/A	N/A	N/A	N/A
																												This program's work is ongoing and will continue in PG&E's 2023 GRC
																	on-unitized: This MAT has no											period. The purpose of this program is a continuing effort to support valve replacements of inoperable or hard-to-operate valves that are greater than
																m	neasurable units because it is used to					Program expenditures were below imputed values						two inches in diameter. It may also include valves that are replaced for
44	Capital	GT&S	75	GT Pipeline Reliability	75D Valve Program	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going Ar	nual 45,830.3	24,644.5	(21,185.8)	-46.2%	YES		ecord costs for various of "find it/fix " valve replacement work.	N/A N/A	N/A	N/A	NO	due reprioritization in support of higher risk or compliance work.	Not-unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	class location changes; valves that are leaking; deactivated valves that are being removed; and removal or replacement of other reliability valves.
				GT Pipeline		Loss of Containment on Gas		y																				
45	Capital	GT&S	75	Reliability	75D Valve Program	Transmission Pipeline	and Reliability	Ex 3, Ch 5	No	N/A I	VA 45,830.3	24,644.5	(21,185.8)	-46.2%	N/A	N/A N	VA .	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																												This program's work is ongoing and will continue in PG&E's 2023 GRC
				GT Pipeline	Vintage Pipe																		Actual units were lower than imputed units due to reprioritization in support of higher risk or					period. The purpose of this program is a continuing effort to address pipelines that are threatened by a combination of construction defects and
46	Capital	GT&S	75	Reliability	75E Replacement	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going Ar	nual 4,146.4	2,250.2	(1,896.3)	-45.7%	NO	NO M	Miles	0.27 0	(0.27)	-100%	YES	Below variance threshold.	compliance work.	On-Target	On-Target	On-Target	Proceeding as Planned	outside forces such as land movement.
47	Capital	GT&S	75	GT Pipeline Reliability	Vintage Pipe 75E Replacement	Loss of Containment on Gas Transmission Pipeline	LOCTM-M001 Vintage Pipe Replacement	e Ex 3, Ch 5	No	N/A I	VA 4,146.4	2,250.2	(1,896.3)	-45.7%	N/A	N/A N	VA.	0.27 0	(0.27)	-100%	N/A I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																	on-unitized: This MAT is non-unitized											
48	Capital	GT&S	75	GT Pipeline Reliability	Pipe Replacement 75H Class Loctn	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going Ar	nual 8.587.4	8,846.8	259.3	3.0%	NO		ince scope is identified during LIDAR inalysis.		N/A	N/A	NO	Below variance threshold.	Not-unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
40			13	GT Pipeline	Pipe Replacement	Loss of Containment on Gas			140	Jingolig Al	0,007.4	5,040.0	200.0	0.070		a	• "	IVA IVA	100	IN/S			***************************************		z ranger			
49	Capital	GT&S	75	Reliability	75H Class Loctn	Transmission Pipeline	Location Change	Ex 3, Ch 5	No	N/A I	VA 8,587.4	8,846.8	259.3	3.0%	N/A	N/A N	VA.	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
																												This program's work is ongoing and will continue in PG&E's 2023 GRC
																						Program expenditures were below imputed	Actual units were lower than imputed units due					period. The purpose of this program is to implement the installation and use of remote control valve (RCV) technology to provide prompt closing of

2023 GRC CYCLE GT&S CAPITAL COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

	A	В	C1	C2	C3	C4	C5	C6	C7	D	E F	G	Н	I	Spending	K Spending	L Percentage		N 0		Q	R	S	Т	U1		U3	V	W
Line	Type (O&M	Functional	MWC	MWC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or	2023 GRC Testimony	Roll-up	Program / Project Proje	m / 2023 Imputed	2023 Actua	Difference for 2023 (\$)	Variance for	Variance Explanation	Variance	Unit Type	2023 nputed Actua	tor 2023 (#		Unit Variance Explanation	Cost	2023 Unit		Forecast		Status	Completion Status Statement
	pense or Capital)	Area						Control Name	Reference	(Voe/No)	(years) Year	Costs	Costs	(H-G)	2023 (%) ((H-	Required (Y/N)	Required (Y/N)		dopted Units Units	of Units) (O-N)	2023 (%) ((O-N)/N*100)	Required (Y/N)	Variance Explanation	Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)		
				GT Pipeline			Loss of Containment on Gas	LOCTM-M004 Valve							(3)/(3*100)												Ĺ		
51 Ca	pital	GT&S	75	Reliability	751	Valve Automation	Transmission Pipeline	Automation	Ex 3, Ch 5	No	N/A N/A	23,608.2	5,006.2	(18,602.0)	-78.8%	N/A	N/A	N/A	18 2	(16)	-88.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				GT Pipeline		Geo-Hazard												non-unitized: This MAT has no measurable units because it is used to record costs for mitigating geo- hazards such as soil-creep, dormant landslides with potential to re-activate, and subsidence. The type of mitigation work performed are not											
52 Ca	pital	GT&S	75	Reliability	75J	Mitigations	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going Annu	al 8,486.1	5,199.4	(3,286.7)	-38.7%	NO	NO	comparable.	N/A N/A	N/A	N/A	NO	Below variance threshold.	Not-unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
				OT Province		0111		LOCTM-C001 Geo-Hazard																					
53 Ca	pital	GT&S	75	GT Pipeline Reliability	75J	Geo-Hazard Mitigations	Loss of Containment on Gas Transmission Pipeline	Threat Identification and Mitigation	Ex 3, Ch 5	No	N/A N/A	8,486.1	5,199.4	(3,286.7)	-38.7%	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		GIRS		GT Pipeline		Water and Levee		SRM Total															Program expenditures exceeded impuled regulatory values as MATs 75M, 75T, and 75K conclined make to the Shallow/Exposed/Water and Levee Crossing Mitigation program and the dollar-furules can shift between these MATs, as needed. Overall, these programs focused on higher risk water and levee crossings pipe projects. In 2023, PG&E completed a large pipe replacement project on L-130 within the Sacramento River. This project reduced rupture or leak risk from dredging activities and increased public safety during						This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to address the risks posed by
54 Ca	pital	GI&S	75	Reliability	75K	Crossings	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going Annu	al 2,549.9	12,771.9	10,222.1	400.9%	NO	YES	Projects	1 1	0	0.0%	NO	recreational boating season.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	shallow and exposed pipe on locations of water/levee crossings.
				GT Pipeline		Water and Levee	Loss of Containment on Gas	LOCTM-M002 Shallow and Exposed Pipe (Including																			i		
55 Ca	pital	GT&S	75	Reliability	75K	Crossings	Transmission Pipeline	Water and Levee Crossing	Ex 3, Ch 5	No	N/A N/A	2,549.9	12,771.9	10,222.1	400.9%	N/A	N/A	N/A	1 1	0	0.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
56 Ca	pital	GT&S	75	GT Pipeline Reliability	75L	Fault Crossings	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going Annu	al 13,542.1	9,749.3	(3,792.8)	-28.0%	NO	NO	Projects	8 2	(6)	-75.0%	YES	Below variance threshold.	Actual units were lower than imputed units due to reprioritization in support of higher risk or compliance work.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to addresses the specific threat of land movement strains at known earthquake faults damaging a pipeline due to seismic events.
				GT Pipeline			Loss of Containment on Gas	LOCTM-C004 Earthquake																					
57 Ca	pital	GT&S	75	Reliability	75L	Fault Crossings	Transmission Pipeline	Fault Crossings	Ex 3, Ch 5	No	N/A N/A	13,542.1	9,749.3	(3,792.8)	-28.0%	N/A	N/A	NA	8 2	(6)	-75.0%	N/A	NA .	NA Actual units were lower than imputed units due to reprioritization in support of higher risk or compliance work. MATs 75M, 75T, and 75K combined make up the Shallow/Exposed/Water and Levee Crossings Mitigation program and the	N/A	N/A	N/A	N/A	NA .
				GT Pipeline																				dollars/units can shift between these MATs, as needed. See Water and Levee Crossings MAT					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to address the risks posed by
58 Ca	pital	GT&S	75	Reliability	75M	Shallow Pipe	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going Annu	al 10,178.4	328.2	(9,850.2)	-96.8%	NO	NO	Projects	4 0	(4)	-100.0%	YES	Below variance threshold.	75K for more detail.	On-Target	On-Target	On-Target	Proceeding as Planned	shallow pipe on land.
				GT Pipeline			Loss of Containment on Gas	LOCTM-M002 Shallow and Exposed Pipe (Including																			i		
59 Ca	pital pital	GT&S GT&S	75	Reliability GT Pipeline Reliability	75M	Shallow Pipe Hydrostatic Testing	Transmission Pipeline	Water and Levee Crossing SRM Total	Ex 3, Ch 5		N/A N/A On-going Annu			(9,850.2)		N/A YES	N/A YES	NA non-unitized: This MAT has no measurable units since scope is identified as capital upgrades during the engineering practice.	4 0	(4)	-100.0%	N/A NO	Program expenditures were below imputed regulatory values due to a lower volume of identified capital work being executed such as capital upgrade needed to facilitate a strength test. A procedural update to the working assessment plan was implemented aligning 49 CFR Part 192 Subpart J drivers with the external corrosion threats, resulting a lower amount of scheduled strength tests in 2023 that required capital work.	s	N/A On-Target	N/A On-Target	N/A On-Target	N/A Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is preparing a pipe for strength lesting, including replacement of plug valves, unbarred tees and short radius elbows replacements, and pressure control fittings removals to facilitate the pigging operation during the strength test and to allow for future LIL runs.
61 Ca	pital	GT&S	75	GT Pipeline Reliability	75N	Hydrostatic Testing	Loss of Containment on Gas Transmission Pipeline	LOCTM-M003 Non-TIMP Strength Testing	Ex 3, Ch 5	No	N/A N/A		9 545 3	(34,516.6)	-78 3%	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				ĺ		,	·																						
0	- 24 - 1	GT&S		GT Pipeline		Pipe Rplcmnt - Oth Pl	SRM Total	SRM Total	Ex 3, Ch 5	l l								non-unitized: This MAT is non-unitized because it is used to record costs for various types of work.	N/A N/A			NO	Below variance threshold.	Not-unitized.	O. T	O . T	Q. T	D D D	
62 Ca			/5	Reliability GT Pipeline	750	Sfty Inv Pipe Rplcmnt - Oth Pl	Loss of Containment on Gas	LOCTM-C008 Pipeline		No	On-going Annu		34,385.4	553.9	1.6%	NU	NU	,,		N/A	N/A		Below variance threshold.	Not-unitized.				Proceeding as Planned	NA
63 Ca	pital pital	GT&S GT&S	75	Reliability GT Pipeline Reliability	75O 75P	Sfty Inv ILI Capital Repair (No BA)	Transmission Pipeline PosRM Total		Ex 3, Ch 5	No No	N/A N/A On-going Annu			553.9	1.6% -86.3%	N/A NO	N/A YES	non-unitized: This MAT has no measurable units since work is not known until anomalous results from previous year's Traditional and Non-	N/A N/A		N/A N/A	N/A NO	Program expenditures were below imputed regulatory values due to a lower volume of capital work identified by dig results showing no large anomalies that would necessitate a capital pipe replacement.	NA Not-unitized.	N/A On-Target	N/A On-Target	N/A On-Target	N/A Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. ILl Capital Repair is driven by the requirements under 40 CFR Part 192 and PG&E's pocedure to repair anomalous findings from both Traditional and Non-Traditional III inspections the year before. It supports capital repairs that are necessary as a result of the findings from Traditional and Non-Traditional III inspections.
																											1		
				GT Pipeline		ILI Capital Repair (No	n Loss of Containment on Gas																						
65 Ca	pital	GT&S	75	Reliability	75P	BA)	Transmission Pipeline	Inspection	Ex 3, Ch 5	No	N/A N/A	14,431.1	1,983.7	(12,447.4)	-86.3%	N/A	N/A	NA	N/A N/A	N/A	N/A	N/A	IVA	Actual units were higher than imputed units due to: 1) more projects classified as capital (>50ft and/or capital installation/replacement), and 2) one project starting construction in 2022 but	N/A	N/A	N/A	N/A	NA This program's work is ongoing and will continue in PG&E's 2023 GRC
66 Ca	pital	GT&S	75	GT Pipeline Reliability	75Q	Pipe Replacement (IM)	SRM Total	SRM Total	Ex 3, Ch 5	No	On-going Annu	al 20,044.6	12,948.4	(7,096.1)	-35.4%	NO	NO	Miles	0.16 0.44	0.28	173.1%	YES	Below variance threshold.	completing construction and capturing units in January 2023 due to weather delays.	On-Target	On-Target	On-Target	Proceeding as Planned	period. The purpose of this program is to implement Non-TIMP capital pipe replacements in lieu of testing when it is a more prudent option.
67 Ca	pital	GT&S	75	GT Pipeline Reliability	75Q	Pipe Replacement (IM)	Loss of Containment on Gas Transmission Pipeline	LOCTM-C026 TIMP Strength Testing	Ex 3, Ch 5	No	N/A N/A	20,044.6	12,948.4	(7,096.1)	-35.4%	N/A	N/A	N/A	0.16 0.44	0.28	173.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
68 Ca	pital	GT&S	75	GT Pipeline Reliability GT Pipeline Reliability	70.1	Pipe Rplcmnt In-Lieu of Hydro Pipe Rplcmnt In-Lieu of Hydro	SRM Total Loss of Containment on Gas Transmission Pipeline	SRM Total LOCTM-M003 Non-TIMP Strength Testing	Ex 3, Ch 5	No No	On-going Annu	al 41,134.6	23,753.2	(17,381.4)	-42.3% -42.3%	NO N/A	YES N/A	Miles	0.71 2.27	1.56	219.7%	YES N/A	Program expenditures were below imputed regulatory values due to: 1) project cancellations driven by working assessment just judates; 2) othe assessment methods selected over replacement.		Over	On-Target			This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to implement Non-TIMP capital pipp replacements in itsu of testing when it is a more prudent option. NA
		GT&S	75	GT Pipeline Reliability		Direct Assessment	SRM Total		Ex 3, Ch 5	No No	On-going annu		549.2	(1,225.0)	-69.0%	NO	NO	non-unitized: This MAT has no measurable units because it is used to record costs for direct assessment capital repairs that arise from ECDA, ICDA or Direct Examination findings. The types of repair work performed are not comparable.	N/A N/A		N/A	NO	Below variance threshold.	Not-unitized.				Proceeding as Planned	NA .

2023 GRC CYCLE GT&S CAPITAL COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

Α.	П р	T 61	C2	C3 C4	C5	C6	C7	D [E			Т и			V	L M	N		В	0	В		T .	114	U2	112	V	I w
Type	-	CI	62	C3 C4	Co	C6		Progr	ram/_		. "		Spending Percent	Spending	Percentage	2023		Difference	Unit Percent	Unit Variance	2023	2023	UI		US	V	W
Line (O&M No Expense		MWC	MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/o Control Name	restimony	Roll-up La	Projec	t Adopted	2023 Actual Costs	tor 2023 (\$)	Variance for 2023 (%)	Variance Explanation	Variance Explanation Unit Type	Imputed Adopted	Actual	for 2023 (# of Units)	Variance for 2023 (%)	Explanation Required	Cost Variance	Unit Variance		Forecast		Status	Completion Status Statement
Capital	7404					Goill of Hallo	Reference	(Yes/No) (yes	Year ars)	Costs	00010	(H-G)	((H- G)/G*100)	Required (Y/N)	Required (Y/N)	Units	Units	(O-N)	((O-N)/N*100)	(Y/N)	Explanation	Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)		
71 Capital	GT&S	75	GT Pipeline Reliability	75S Direct Assessment	Loss of Containment on Gas Transmission Pipeline	LOCTM-C022 Direct Assessment	Ex 3. Ch 5	No N	/A N/A	1,774.2	549.2	(1,225.0)	-69.0%	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A
/1 Capital	GIAS	/5	Reliability	75S Direct Assessment	Transmission Pipeline	Assessment	Ex 3, Ch 5	No N	A N/A	1,774.2	549.2	(1,225.0)	-69.0%	N/A	N/A N/A	N/A	N/A	N/A	N/A	NA		units were lower than imputed units due oritization in support of higher risk or	NA	N/A	NA	IVA	NA
																					complia MATs 7 the Shal	75M, 75T, and 75K combined make up					
72 Capital	GT&S	75	GT Pipeline Reliability	75T Exposed Pipe	SRM Total	SRM Total	Ex 3, Ch 5	No On-g	going Annua	I 10,178.4	7,012.5	(3,165.9)	-31.1%	NO	NO Projects	4	0	(4)	-100%	YES	dollars/u needed.	ngs Mitigation program and the units can shift between these MATs, as i. See Water and Levee Crossings MAT more detail.	On-Target	On-Target	On-Target I		This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to address the risks posed by exposed pipe on land.
						LOCTM-M002 Shallow as	nd																				
73 Capital	GT&S	75	GT Pipeline Reliability	75T Exposed Pipe	Loss of Containment on Gas Transmission Pipeline	Exposed Pipe (Including Water and Levee Crossin	ng Ex 3, Ch 5	No N	A N/A	10,178.4	7,012.5	(3,165.9)	-31.1%	N/A	NA NA	4	0	(4)	-100%	N/A	NA NA		N/A	N/A	N/A	N/A	N/A
74 Capital	GT&S	75	GT Pipeline Reliability	Non-TIMP Strength 75U Testing	SRM Total	SRM Total	Ex 3, Ch 5	No On-g	joing Annua	l 69,859.2	18,663.6	(51,195.6)	-73.3%	YES	YES Miles	39.40	9.00	-30.40	-77.2%	YES	regulatory values due to a lower volume of pre-1955 to a low untested pipe identified than expected as a result of lower volume scoped due to threat assessment method changes, working assessment plan updates, method and test records found resulting in less untested (WAP)	ed than expected as a result of lower scoped due to threat assessment	On-Target	On-Target	On-Target		This program's work is orgoing and will continue in PG&Es 2023 GRC period. The purpose of this program is to validate the integrity and assure a margin of safety by strength testing in accordance with 49 CFR § 102.619 for those gas transmission pipelines that: 1) Lack a documented TVC strength test record that is consistent with 0.11-09-017, D.12-12-030, and NTSB Safety Recommendation P-10-4 (prioritzing strength testing of gas transmission pipelines with the highest risk factors). 2) Need to have MAOP re-confirmed under 49 CFR §192.624 will either a strength test or pipe replacement; or 3) Need to be either tested or replaced to comply with 49 CFR §192.617 because the manifacturing threat is deemed undatable because it either does not have a TVC record of a test or does not have a 49 CFR Subpart J test to at least 1.25 times MAOP.
75 Capital	GT&S	75	GT Pipeline Reliability	Non-TIMP Strength 7511 Testing	Loss of Containment on Gas Transmission Pipeline	LOCTM-M003 Non-TIMP Strength Testing	Ex 3, Ch 5	No N	A N/A	69,859.2	18,663.6	(51,195.6)	-73.3%	N/A	N/A N/A	39.4	9.0	-30.4	-77.2%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A
13		73	GT Pipeline	TIMP Direct Exam-				NO IN	A INA	03,033.2	10,003.0		-13.370	INO	WA PROPERTY.	33.4	3.0	-50.4	-11.276		to fewer excess	units were lower than imputed units due or capital repairs (replacements in of 50ft or recoats in excess of 100ft) d as a result of direct examination					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to perform capital repairs or recoal driven by completion of threat assessments required by Subpart O and
76 Capital	GT&S	75	Reliability	75V Captal Recoat	SRM Total	SRM Total	Ex 3, Ch 5	No On-g	joing annua	2,328.2	329.9	(1,998.3)	-85.8%	NO	NO Mitigations	2	0	(2)	-100%	YES	Below variance threshold. integrity	y assessments.	On-Target	On-Target	On-Target I	Proceeding as Planned	PG&E's procedures.
77 Capital	GT&S	75	GT Pipeline Reliability	75V Captal Recoat	Loss of Containment on Gas Transmission Pipeline	LOCTM-C022 Direct Assessment	Ex 3, Ch 5	No N	A N/A	2,328.2	329.9	(1,998.3)	-85.8%	N/A	N/A N/A	2	0	(2)	-100%	N/A	N/A N/A		N/A	N/A	N/A	N/A	NA
78 Capital	GT&S	75	GT Pipeline Reliability	762 Gill Ranch Capital	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 6	No On-g	joing Annua	I 999.1	289.8	(709.3)	-71.0%	NO	non-unitized: This MAT has no measurable units due to various types NO of projects included.	, N/A	N/A	N/A	N/A	NO	Below variance threshold. Not-uniti	tized.	On-Target	On-Target	On-Target I	Proceeding as Planned	N/A
			GT Station	Perform Simple	1 1	1																				-	
79 Capital	GT&S	76	Reliability	763 Station Rblds	SRM Total Large Overpressure Event	SRM Total	Ex 3, Ch 6	No On-g	going Annua	7,394.1	10,429.0	3,035.0	41.0%	NO	NO # of Simple Stations Rebuilt	2	2	0	0%	NO	Below variance threshold. Below v	variance threshold.	On-Target	On-Target	On-Target I	Proceeding as Planned	N/A
80 Capital	GT&S	76	GT Station Reliability	Perform Simple 763 Station Rblds	Downstream of Gas M&C Facility	LRGOP-C001 Perform Simple Station Rebuilds	Ex 3, Ch 6	No N	A N/A	7,394.1	10,429.0	3,035.0	41.0%	N/A	NA NA	2	2	0	0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A
81 Capital	GT&S	76	GT Station Reliability	Perform Simple 763 Station Rblds	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C004 Perform Simple Station Rebuilds	Ex 3, Ch 6	No N	'A N/A	7,394.1	10,429.0	3,035.0	41.0%	N/A	N/A N/A	2	2	0	0%	N/A	NA NA		N/A	N/A	N/A	N/A	N/A
82 Capital	GT&S	76	GT Station Reliability	Perform Complex 764 Station Rbids	SRM Total	SRM Total	Ex 3, Ch 6	No On-g	going Annua	I 47,094.2	21,179.6	(25,914.5)	-55.0%	YES	YES # of Complex Stations Rebuilt	1.5	1	(0.5)	-33.3%	YES	Program expenditures were below imputed to the expenditures due to reprioritization in support of being de	s replacing a valve and the construction ilding, needed to be completed before rt of the construction when the unit will	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. This program is to maintain reliability of our complex stations through rebuilds.
			GT Station	Perform Complex	Large Overpressure Event Downstream of Gas M&C	LRGOP-C002 Perform																					
83 Capital	GT&S	76	Reliability	764 Station Rblds	Facility Loss of Contnm at Gas	Complex Station Rebuilds	Ex 3, Ch 6	No N	A N/A	47,094.2	21,179.6	(25,914.5)	-55.0%	N/A	NA NA	1.5	0.0	(1.5)	-100%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A
84 Capital	GT&S	76	GT Station Reliability	Perform Complex 764 Station Rblds	Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C005 Perform Complex Station Rebuilds	Ex 3, Ch 6	No N	A N/A	47,094.2	21,179.6	(25,914.5)	-55.0%	N/A	N/A N/A	1.5	0.0	(1.5)	-100%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A
			GT Station	Perform Transm											non-unitized: This MAT has no measurable units because it captures individual projects that address specific upgrades inside the terminals												This program's work is ongoing and will continue in PG&E's 2023 GRC period. This program is to maintain reliability of our terminals by performing
85 Capital	GT&S	76	Reliability	765 Terminal Upgrd	SRM Total Large Overpressure Event	SRM Total LRGOP-C003 Perform	Ex 3, Ch 6	No On-g	joing Annua	10,771.9	8,749.9	(2,022.0)	-18.8%	NO	NO in addition to routine terminal work.	N/A	N/A	N/A	N/A	NO	Below variance threshold. Not-uniti	tized.	On-Target	On-Target	On-Target I	Proceeding as Planned	upgrades.
86 Capital	GT&S	76	GT Station Reliability	Perform Transm 765 Terminal Upgrd	Downstream of Gas M&C Facility	Transmission Terminal Upgrade	Ex 3, Ch 6	No N	A N/A	10,771.9	8,749.9	(2,022.0)	-18.8%	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A
			GT Station	Perform Transm	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn &	MCCPF-C006 Perform Transmission Terminal													T						Γ		
87 Capital	GT&S	76	Reliability	765 Terminal Upgrd	Prcssn Facil	Upgrade	Ex 3, Ch 6	No N	/A N/A	10,771.9	8,749.9	(2,022.0)	-18.8%	N/A	N/A N/A non-unitized: This MAT was not	N/A	N/A	N/A	N/A	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A
	GT&S		GT Station		SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 6							No.	forecast in the 2023 GRC and includes Becker control valve system	N/Δ				NO	Delement of the state of the st	atd	O- T	0.7		D	
88 Capital	G168	76	Reliability	766 Becker Sys Upgrade	s okw rotal (Non-KAMP)	OKM TOTAL (NON-KAMP)	Ex 3, Uh 6	No On-g	joing Annua	0.0	0.9	0.9	100.0%	NU	NO upgrade activities.	N/A	N/A	N/A	N/A	NU	Below variance threshold. Not-uniti	uzeu.	On-Target	On- rarget	Over	Proceeding as Planned	IWA
89 Capital	GT&S	76	GT Station Reliability	Emergency Shutdow 76F upgrade	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 6	No On-g	joing Annua	0.0	1,061.5	1,061.5	100.0%	NO	mort-untitized: This MAT has no measurable units as this work was consolidated into Compressor Controls Upgrade MAT 76T.	N/A	N/A	N/A	N/A	NO	Below variance threshold. Not-uniti	tized.	On-Target	On-Target	Over I	Proceeding as Planned	N/A
90 Capital	GT&S	76	GT Station Reliability	GT Over Pressure 76G Protection	SRM Total	SRM Total	Ex 3, Ch 6	No On-g	going Annua	I 0.0	24,613.5	24,613.5	100.0%	YES	YES # of rebuilds and retrofits	0	0	0	0%	NO	Program expenditures exceeded imputed values because PGSE executed work prior to receiving the 2023 GRC Final Decision which adopted \$0 for this program.	variance threshold.	On-Target	On-Target	Over I		This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to install filters and separators at strategic locations within the system to reduce the likelihood of debris and liquids from entering the system and impacting pilot operated regulators and monitors. This program executed work prior to the 2023 GRC Final Decision.

2023 GRC CYCLE GT&S CAPITAL COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

A	В	C1	C2	C3 C4	C5	C6	C7	D	E F	G	Н	I	J Spending	K	L	M	N	0	Р	Q	R	8	Т	U1	U2	U3	V	W
Type Line (O&M	Functional	MWC	MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/o	2023 GRC	RAMP Prog	pram / pject Progra	m / 2023 Impute	2023 Actua	Difference	Percent Variance for 2023 (%)	Spending Variance	Percentage Variance Explanation		2023 Imputed		Difference for 2023 (#	Unit Percent Variance for	Unit Variance Explanation	2023 Cost	2023 Unit		Forecast		Status	Completion States States and
No Expense or Capital)	Area	MWC	MWC Name	MAI MAI Name	RAMP RISK Name	Control Name	Testimony Reference	(Yes/No) L	ife Yea	r Costs	Costs	(H-G)	((H-	Required (Y/N)	Required (Y/N)	n Onit Type	Adopted Units	Units	of Units) (O-N)	2023 (%) ((O-N)/N*100)	Required (Y/N)	Variance Explanation	Variance Explanation	Scope (U.O. or T)	Schedule (U, O, or T)	Budget	Status	Completion Status Statement
					Large Overpressure Event								G)/G*100)	(1/N)	(1/N)									(0, 0, 0 1)	(0, 0, 01 1)	(0, 0, 0, 1)		
91 Capital	GT&S	76	GT Station Reliability	GT Over Pressure 76G Protection	Downstream of Gas M&C Facility	LRGOP-M002 GT Overpressure Protection	Ex 3, Ch 6	No N	VA N/A	0.0	24,613.5	24,613.5	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																							Actual units were lower than imputed units due	,				
92 Capital	GT&S	76	GT Station Reliability	76M GT SCADA Visibility	SRM Total	SRM Total	Ex 3, Ch 11	No On-	going Annu	al 3,106.0	2,419.9	(686.1)	-22.1%	NO	NO	# of Remote Terminal Units Installed	8	5	(3)	-37.5%	YES	Below variance threshold.	to engineering and permitting delays, and customer scheduling.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. This program is to install SCADA visibility at transmission stations.
93 Capital	GT&S	76	GT Station Reliability	76M GT SCADA Visibility	Insufficient Capacity to Meet Customer Demand	CPCTY-M003 GT SCADA Visibility	A Ex 3, Ch 11	No N	VA N/A	3,106.0	2,419.9	(686.1)	-22.1%	N/A	N/A	N/A	8	5	(3)	-37.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			GT Station		Large Overpressure Event	LRGOP-M001 GT SCAD																						
94 Capital	GT&S	76	Reliability	76M GT SCADA Visibility		Visibility	Ex 3, Ch 11	No N	VA N/A	3,106.0	2,419.9	(686.1)	-22.1%	N/A	N/A	N/A	8	5	(3)	-37.5%	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
			GT Station		Loss of Contrm at Gas Measrm & Cntrl / Cmprsn &	MCCPF-M003 GT SCAD	Α																					
95 Capital	GT&S	76	Reliability	76M GT SCADA Visibility	Prcssn Facil	Visibility	Ex 3, Ch 11	No N	VA N/A	3,106.0	2,419.9	(686.1)	-22.1%	N/A	N/A	N/A	8	5	(3)	-37.5%	N/A	N/A	WA	N/A	N/A	N/A	N/A	NA
96 Capital	GT&S	76	GT Station Reliability	Routine Spend C&P 76N Capital	SRM Total Loss of Contrm at Gas	SRM Total	Ex 3, Ch 6	No On-	going Annu	al 58,989.2	33,868.7	(25,120.5)	-42.6%	YES	YES	non-unitized: This MAT has no measurable units because it includes a wide assortment of "find-it and fix-it" projects that are typically routine or unique occurrences and do not qualify for another program.	N/A	N/A	N/A	N/A	NO	Program expenditures were below imputed regulatory values due to reprioritization in support of higher risk or compliance work which impacted project start and construction at Topock, Hinkley, McDonald Island and Kettleman.	Not-unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. This is a find-it, fix-it program to maintain safety and reliability of compression and processing facilities.
97 Capital	GT&S	76	GT Station Reliability	Routine Spend C&P	Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-C020 Routine Spend C&P	Ex 3, Ch 6	No N	VA N/A	58 989 2	33 868 7	(25 120 5)	-42 6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5, Japan		1.0							107	00,000.2	00,000.7	(20,120.0)	42.070	TOX.	TO TO			147.		1471	1071			1				This program's work is ongoing and will continue in PG&E's 2023 GRC
98 Capital	GT&S	76	GT Station Reliability	GT Elect Upgrd- 76P Hinkley&Topock	SRM Total	SRM Total	Ex 3, Ch 6	No On-	going Annu	al 6,303.7	4,040.5	(2,263.1)	-35.9%	NO	NO	# upgrades	0	0	0	0%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	period. This program is for upgrading electrical equipment at Hinkley or
			GT Station	GT Elect Upgrd-	Loss of Contrm at Gas Measrm & Cntrl / Cmprsn &	MCCPF-C021 GT Elect																						
99 Capital	GT&S	76	Reliability	76P Hinkley&Topock	Prcssn Facil	Upgrd-Hinkley&Topock	Ex 3, Ch 6	No N	VA N/A	6,303.7	4,040.5	(2,263.1)	-35.9%	N/A	N/A	N/A	0	0	0	0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100 Capital	GT&S	76	GT Station Reliability	Compressor Unit Control Repl	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 6	No On-	going Annu	al 0.0	842.7	842.7	100.0%	NO	NO	non-unitized: This MAT has no measurable units as this work was consolidated into Compressor Controls Upgrade MAT 76T.	N/A	N/A	N/A	NA	NO	Below variance threshold.	Not-unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A
101 Capital	GT&S	76	GT Station Reliability	Engineering Critical 76S Assmnt 2	SRM Total Loss of Contrm at Gas	SRM Total	Ex 3, Ch 6	No ·	15 4	9,848.6	1,090.0	(8,758.5)	-88.9%	NO	NO	measurable units because project work that occurs under this MAT is non-fungible and covers a wide range of asset types, and scope of assets requiring work.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not-unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
102 Capital	GT&S	76	GT Station Reliability	Engineering Critical 76S Assmrt 2	Measrm & Cntrl / Cmprsn & Prcssn Facil	MCCPF-M008 Engineerin Critical Assessment 2	ng Ex 3, Ch 6	No N	VA N/A	9,848.6	1 090 0	(8,758.5)	-88.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
103 Capital	GT&S	76	GT Station Reliability	Compressor Control Upgrades		SRM Total	Ex 3, Ch 6	No On-					-46.4%	NO	NO	# upgrades	1	2	1	100%	YES	Below variance threshold.	Actual units were higher than imputed units due to work rescheduled from the prior year being completed in 2023.		On-Target		Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. This program is to upgrade control systems at our compressor stations to maintain reliability. Program is anticipated to exceed budget at the end of GRC because unit costs are escalating.
			GT Station	Compressor Control	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn &	MCCPF-C023 Compress	or																					
104 Capital	GT&S	76	Reliability	76T Upgrades	Prossn Facil	Control Upgrades	Ex 3, Ch 6	No N	VA N/A	12,090.2	6,475.0	(5,615.2)	-46.4%	N/A	N/A	N/A	1	2	1	100%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
105 Capital	GT&S	76	GT Station Reliability	Station Strength Tst 76V Capital	- SRM Total	SRM Total	Ex 3, Ch 6	No :	15 4	16,745.3	2,431.3	(14,314.0)	-85.5%	NO	YES	non-unitized: This MAT has no measurable units because project work that occurs under this MAT is non-fungible and covers a wide range of asset types, and scope of assets requiring work.	N/A	N/A	N/A	N/A	NO	Program expenditures were below imputed regulatory values as this MAT is non-unitized and contains only the portion of project costs to address station components installed on or after January 1, 1956 that do not have, but were required to have, TVC records. The percentage of this type of work was lower than what was forecast in the 2023 GRC	Not-unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. Federal Code 49 CPR 192.624 states: (1) Operators must complete all actions required by this section on at least 50% of the pipeline mileage by July 3, 2028. (2) Operators must complete all actions required by this section on 10% of the pipeline mileage by July 2, 2035.
			GT Station	Station Strength Tst	Loss of Contnm at Gas - Measrm & Cntrl / Cmprsn &	MCCPF-M006 Station																						
106 Capital	GT&S	76	Reliability	76V Capital	Prcssn Facil	Strength Test	Ex 3, Ch 6	No N	VA N/A	16,745.3	2,431.3	(14,314.0)	-85.5%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	WA	WA	N/A	N/A	N/A	N/A	N/A
107 Capital	GT&S	76	GT Station Reliability	Compressor 76X Replacements	SRM Total	SRM Total	Ex 3, Ch 6	No On-	going Annu	al 10,487.6	18,757.0	8,269.5	78.9%	NO	NO	# of Compressor Unit Replacements	0	0	0	0%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
108 Capital	GT&S		GT Station	Compressor zey Replacements	Loss of Contrm at Gas Measrm & Cntrl / Cmprsn & Prossn Facil	MCCPF-C024 Compress	or Ex 3, Ch 6			10 487 6	18 757 0		78 0%	N/A		N/A				***	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
108 Capital	GT&S	76	Reliability GT Station Reliability	Physical Security - 76Z Capital	SRM Total	Replacements SRM Total	Ex 3, Ch 6	No P	going Annu		18,757.0 585.1	8,269.5 (9,069.6)	70.376	NA NO	N/A NO	# upgrades	2	0	(2)	-100%	YES	Below variance threshold.	Actual units were lower than imputed units due to: 1) planned units in 2023 were extra large stations (larger footprix) which had higher costs compared to the adopted station unit costs, and 2) additional units were not completed due to Gas prioritization is support of higher risk or compliance work.	On-Target			Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. This program is to upgrade physical security at identified TSA gas transmission M&C and C&P facilities.
			GT Station	Physical Security -	Loss of Contnm at Gas Measrm & Cntrl / Cmprsn &	MCCPF-C025 Physical																						
110 Capital	GT&S	76	Reliability	76Z Capital	Prossn Facil	Security - Capital	Ex 3, Ch 6	No N	VA N/A	9,654.7	585.1	(9,069.6)	-93.9%	N/A	N/A	N/A	2	0	(2)	-100%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA

2023 GRC CYCLE GT&S CAPITAL COMPARISON BY MAT FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

A	В	С	1 (2	C3 C4	C5	C6	C7	D	E	F G	Н	1	Spending	K	L	M	N	0	P	Q	R	S T	U1	U2	U3	V	W
Line (O&I	Function		vc Mwc	Name I	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/o	2023 GRC Testimony Reference		roject Pr	gram / 2023 Imp oject Adopt ear Cost		Different for 2023 (H-G)	Percent	Variance Explanation	Variance n Explanation	unit Type	2023 Imputed Adopted	2023 Actual Units	Difference for 2023 (# of Units)	Unit Percent Variance for 2023 (%)	Unit Variance Explanation Required	2023 2023 Cost Unit Variance Variance		Forecast	_	Status	Completion Status Statement
Capit	I)							Reference (Yes/No)	years) Y	ear Cost	s	(H-G)	((H- G/G*100	Required (Y/N)	Required (Y/N)		Units	Units	(O-N)	((O-N)/N*100)	(Y/N)	Explanation Explanation	Scope (U, O, or T)	Schedule (U, O, or T	Budget (U, O, or T)		
111 Capital	GT&S	8	GT Ga Gather Systen 4 Manag	ng	84C GG- Reliability/Safety	y SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 3, Ch 5	No O	n-going Ar	inual 0.0	4.4	4.4	100.0%	NO	NO	non-unitized: This MAT has no measurable units as this is no longer used to capture work and reflects close out costs for odorizer installation projects on gas gathering lines.	N/A	N/A	N/A	N/A	NO	Below variance threshold. Not-unitized.	On-Target	On-Target	Over	Proceeding as Planned	NA
112 Capital	GT&S	8	Gather Systen 4 Manag	,	84D Gas Gathering	SRM Total	SRM Total	Ex 3, Ch 5	No O	n-going Ar	inual 12,290	.6 3,278	8 (9,011.8	3) -73.3%	NO	NO	Meters	11	2	(9)	-81.8%	YES	Actual units were lower than imputed units to reprioritization in support of higher risk of compliance work.		Under	Under		Due to reprioritization to higher risk or compliance work, program activitie have been delayed.
113 Capital	GT&S	8	Gather 4 System	ng	84D Gas Gathering	Loss of Containment on Gas Transmission Pipeline	LOCTM-C006 Gas Gathering Divestiture	Ex 3, Ch 5	No	N/A N	VA 12,290	.6 3,278	8 (9,011.8	3) -73.3%	N/A	N/A	N/A	11	2	(9)	-81.8%	N/A	NA NA	N/A	N/A	N/A	N/A	N/A
114 Capital	GT&S	9	GT Into 8 Manag		98C ILI Upgrades	SRM Total	SRM Total	Ex 3, Ch 5	No O	n-going 2	038 61,141	.6 145,15	5.5 84,013.9	3 137.4%	YES	YES	Projects	4.0	6.0	2.0	50.0%		Program expenditures exceeded imputed regulatory values due to several drivers. First, the program executed two units over imputed units due to project maturity, these projects were ariseavely in construction or finished by the time the 2023 GRC Final Decision was received. Second, this program is completing a more complex scope of work as compared to historical upgrades performed on smaller diameter pipe projects, for example. Finally, the program completed a high amount of non-unitized work in 2023 which resulted in a higher program cost, without construction or finished by the time the 205 GRC decision was received.	3	On-Target	Over		This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to upgrade natural GT pipelines in order to be capable of in-line inspection (where warranted) as outlined in PG&E's Pipeline stately Enhancement Plan.
115 Capital	GT&S	9	GT Inte 8 Manag	grity ement	98C ILI Upgrades	Loss of Containment on Gas Transmission Pipeline	LOCTM-M005 Traditional ILI Upgrades	Ex 3, Ch 5	No	N/A I	VA 61,141	.6 145,15	5.5 84,013.9	9 137.4%	N/A	N/A	N/A	4.0	6.0	2.0	50.0%	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A

¹¹⁵ Capital GT&S 98 Management 98C ILU Upgrades Transmission Pipeline ILU Upgrades Ex3, Ch 5 No NA NA 61,141.6 145,155.5 84,013.9 137.4

(a) Units for AC Interference Mitigation MAT 3K4 can include # of Alternating Current Coupon Test Station, # of ground rods installed, and # of 2 microbions installed.

(a) Units for Cathodic Protection replacement MAT 3K4 can include # of groundbed replacements performed, and # of frectifiers repaired.

(b) Units for WELL - Reworks MAT 3L3 can include # of cementing wells, # of new gas wells, and # of tubing and packer, reliability/down hole safety valves.

(c) Workpapers clearly showed WELL Repair and Replace MAT 3L4 was based on a dollar forecast, not units x unit cost (i.e., non-unitized). WP 6-2 included a "1" under units to represent non-unitized work and this was misinterpreted to be an actual physical unit.

(d) WELL Controls and Continuous Monitoring MAT 3L5 includes unitized (# wells) and non-unitized work.

(e) StarPac MAT 44A is a consolidation of the recorded spend and work completed under various GT Integrity Management and GT Pipeline reliability programs.

1	L.	GT&S MWC Descriptions – Expense
2		MWC AB - Support - Support encompasses quality management and
3		miscellaneous gas transmission costs not aligned with other MWCs or MATs.
4		This MWC does not relate directly to safety and/or reliability and/or
5		maintenance.
6		MWC AH – Maint Gas Storage Facilities – Expense-related programs for
7		PG&E's underground storage field operations.
8		This MWC relates to safety and/or reliability and/or maintenance as it
9		involves work related to underground storage field operations.
10		MWC AK – Manage Environmental Operations – Manage Environmental
11		Operations refers to the coordination of policies and procedures regarding
12		hazardous materials. This includes the following:
13 14		 Investigating, cleaning, coordinating disposal, and maintaining records on all hazardous materials;
15		The facility based fees (i.e., underground storage tanks, facility permits,
16		discharge permits, agency inspection fees, and storm water vault discharge
17		permits);
18		• Materials and supplies such as drums, containers, labels, signs, absorbent
19		materials as well as the lab testing costs; and
20		Environmental compliance plans.
21		MWC AK does not include PG&E labor for spill response, third party claims, and
22		site relocation costs.
23		This MWC does not relate directly to safety and/or reliability and/or
24		maintenance.

MWC CM – Gas Transmission Operations – Gas Transmission

Operations comprises expense related to the remote monitoring and control of the gas system by operators in the Gas Transmission Control Center. Operators use a SCADA system and related tools to monitor and control various aspects of the GT&S system, including pressure, flow, gas routing, and emergency response. Gas Transmission Operations also comprises work performed by gas planning engineers who model the GT&S system to support a safe, reliable, and cost-effective supply of natural gas to customers and to enable the system to accommodate future load growth. SCADA gathers information from field devices that measure pressure, flow, temperature, and other physical

characteristics of the gas system. The SCADA system then converts these measurements into electronic signals that are transmitted through a network of radio, telephone, microwave, and other telecommunications systems. Supplied from these systems, computers process and graphically display this data for gas control-room operators. This MWC also includes the cost of electricity to operate the GT&S system, notably the electric-powered gas compressors.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to monitoring and controlling gas system remotely using SCADA system and tools. This includes overseeing pressure, flow, gas routing and emergency response. Gas planning engineers model the system to ensure a safe, reliable and cost-effective supply of natural gas anticipating future load growth and identifying constraints enabling proactive maintenance to prevent system failures.

MWC CR – Manage Hazardous Waste Disposal and Transportation – Manage Hazardous Waste Disposal and Transportation refers to the contract costs for hazardous waste disposal, universal waste disposal, and other materials regulated as industrial wastes. This includes:

- Gas operations labor to manage waste disposal arrangements and profiles;
- Taxes and fees (manifest fees) paid to the state for generation and disposal of hazardous waste and costs to manage payments; and
- Pole disposal costs.

MWC CR does not include the disposal of non-routine wastes from spill events.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC CX – Gas Marketing, Sales, and Strategy – Gas Marketing, Sales, and Strategy includes costs associated with the promotion and selling of utility services to present and prospective customers, and with maintaining the associated records.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC DF – Locate and Mark – Mark and Locate includes the work necessary to comply with Federal pipeline safety regulations and state law that requires PG&E to belong to and share the costs of operating the regional "one-call" notification system. Builders, contractors, and others planning to

excavate use this system to notify underground facility owners, like PG&E, of their plans. PG&E then provides the excavators with information about the location of its underground facilities by having Company personnel visit the work site and place color-coded surface markings to show where any pipes and wires are located.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to Locate and Mark where underground facility owners are notified on the color-coded surface markings to show where pipes and wires are located.

MWC DN – Develop and Provide Training – The Gas Qualifications program creates new and revises existing training materials ensuring that the Gas workforce is competent, safe, and qualified and includes costs associated with field employee operator qualifications. It does not include curriculum development, the general maintenance, or delivery of training materials.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC GF – Gas Transmission and Distribution System Mapping –

Gas Mapping encompasses tracking the size, material type, location, configuration, and other essential information needed to identify gas transmission lines and over 42,000 miles of underground gas distribution main and nearly 3.3 million gas services in support of the Company's 4.1 million residential, commercial, and industrial gas customers (accounts). Similar to electric mapping, gas mapping updates and maintains the gas transmission and distribution system maps and records that serve many purposes and are critical to the safe and successful operation of the gas system.

This MWC relates to safety and/or reliability and/or maintenance as it involves tracking the size, material type, location and configuration, and other essential information needed to identify GT&S assets

MWC GJ – Corrosion Control – Includes compliance expenses for 49 CFR § 192, Subpart I – Requirements for Corrosion Control. These include investigating and mitigating stray currents, atmospheric corrosion, internal corrosion, performing close interval survey, testing casings without leads, restoring cathodic protection at non-routine monitoring points to adequate levels, and restoring electrical isolation at cased crossings.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to safety and integrity of infrastructure by investigating and mitigating as stray currents, atmospheric corrosion, internal corrosion, performing close interval survey, testing casings without leads, restoring cathodic protection at non-routine monitoring points to adequate levels, and restoring electrical isolation at cased crossings.

MWC GM – Natural Gas Fueling Facilities Operations and Maintenance – Natural Gas Fueling Facilities Operations and Maintenance includes the work required to maintain and operate existing natural gas fueling facilities. PG&E operates over 800 Natural Gas Vehicles (NGVs) and has over 6,000 customers that use their natural gas fueling facilities. PG&E's network of natural gas fueling stations also serves as a back up to customer owned stations that are not available due to breakdowns or maintenance.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to ensure the operations and maintenance of natural gas fueling facilities. These facilities can serve as backups for customer owned stations during breakdowns or maintenance thus enabling reliability.

MWC GZ – Gas Research, Development & Demonstration (RD&D) – Gas Research, Development & Demonstration includes research, development, and demonstration (RD&D) work in targeted areas of gas transmission and distribution. The objectives of gas RD&D are to explore new opportunities, concepts, and technologies to continue to provide safe and reliable service to customers at a lower cost, where possible.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC HP – Transmission Integrity Management Program (TIMP)/California Gas Transmission (CGT) Balancing Accounts – Includes: Team costs, ILI, ECDA, Corrosion, ICDA, SCCDA, Leak Survey and RMDA. Pipeline Integrity Management Program includes costs to assess and manage the integrity of all gas transmission pipelines whose potential impact circle encompasses High Consequence Areas (HCA). HCAs are defined as areas with 20 or more dwellings, public gathering places, or structures difficult to evacuate.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to maintenance within the pipeline systems including activities like ILI, ECDA, Corrosion, ICDA, SCCDA, Leak Survey and RMDA. These assessments identify and mitigate integrity issues like 3rd Party damage, corrosion, stress corrosion cracking and leaks.

MWC JO – GT Pipeline Maintenance – Routine maintenance on the Backbone including Bay Loops and Local Transmission Pipelines.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to Routine maintenance on Bay Loops and LT Pipelines.

MWC JP – GT Station Maintenance – Preventative maintenance and corrective repairs to Storage, Compressor Station, or Terminal equipment not covered by another specific MAT, including: repairs to valves, regulators and relief valves, manual and automated valves, regulators, monitors and reliefs; repairs to electrical generating equipment; compressor station Power Units, standby generators, Motor Control Center (MCC) and Uninterruptible Power Supply (UPS) systems; and repairs to gas, water and oil cooling systems and holding ponds, heat exchangers, pumps, fans, motors, gearboxes, filters, tanks and sumps.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to preventive maintenance, corrective repairs to storage, compressor station or terminal equipment. Additionally, maintaining these systems ensures operational efficiency and reduces the risk of unexpected breakdowns.

MWC JT – GT Reliability & General Maintenance – Reliability and general maintenance for GT pipeline and stations.

This MWC relates to safety and/or reliability and/or maintenance as it involves assessing and maintaining the quality of the gas and the Gas Transmission pipeline and stations assets.

MWC JV – Information Technology (IT) – Includes costs for ongoing maintenance, operations and repair for PG&E's IT applications, systems, and infrastructure.

This MWC was not presented in the 2023 General Rate Case (GRC) as related directly to safety and/or reliability and/or maintenance. However, certain

projects within this MWC provide support for safety and/or reliability and/or 1 2 maintenance projects. **MWC KE – Pipeline Safety Enhance Plan** – This category includes 3 expenses associated with strength testing pipelines that are in service. 4 5 This MWC relates to safety and/or reliability and/or maintenance as it involves work related to strength testing pipelines that are in service. 6 **MWC LU – Critical Documents Program** – Addresses critical 7 8 documentation delineated in PG&E's Standard TD 4551S, and identifies, modifies, and/or develops documentation to comply with TD 4551S. 9 This MWC relates to safety and/or reliability and/or maintenance as it 10 11 involves work related to critical documentation to comply with PG&E's Standard TD 4551S. 12 MWC LV - GTS Station Assessments - Covers work associated with 13 14 Engineering Critical Assessments (ECA) phase 1 and phase 2. This MWC relates to safety and/or reliability and/or maintenance as it 15 involves work related to conducting Engineering critical assessments. 16 17 **MWC 34 – StanPac, Expense** – Includes costs associated with maintaining StanPac gas transmission (gas compressors, pipeline, measuring, and 18 19 regulating) facilities. Maintenance is generally defined as work that keeps a 20 facility operational. It involves repairs and upkeep to the facility. 21 This MWC relates to safety and/or reliability and/or maintenance as it involves work related to maintaining StanPac gas transmission (gas 22 23 compressors, pipeline, measuring, and regulating) facilities, repair, and upkeep of facilities. 24 **MWC OM – Operational Management** – Includes labor and employee 25 26 related- costs to provide supervision and management support. MWC OM also 27 includes costs incurred by the administrative staff working for the Supervisors/Managers. 28 29 This MWC is included as a maintenance activity in accordance with 30 D.19-04-020. GT&S does not consider MWC OM as related directly to safety and/or reliability and/or maintenance work. 31 **MWC OS – Operational Support** – Includes labor and employee 32 33 related- costs to provide services and support that are unrelated to supervision

and management.

34

This MWC does not relate directly to safety and/or reliability and/or maintenance.

M. GT&S MWC Descriptions – Capital

 MWC 05 – Tools and Equipment – Includes the costs of miscellaneous tools and equipment. expenditures are necessary to replace damaged, worn out, or obsolete tools and to ensure specialized tools are available to perform testing and other functions.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC 12 – Implement Environment Projects - Environmental Capital includes Spill Prevention Control and Countermeasures (SPCC) upgrades covering improvements at various substations that are necessary to comply with federal requirements. These upgrades include, but are not limited to, catch basin enhancements and basin size increases to capture maximum equipment volumes including water from storm events.

In addition, MWC 12 includes the mitigation (or compensation) component of the habitat conservation plan currently in development for San Joaquin Valley. Such mitigation includes expenditures for acquisition and/or restoration of habitat.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC 21 – Miscellaneous Capital – Miscellaneous capital projects not aligned with any other Gas Transmission MAT.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to gas pipeline operations and maintenance.

MWC 26 – GT Customer Connects – GT Customer Connects covers capital costs to provide service to a new gas customer. This includes all gas facilities extended from the gas transmission system to the meter outlet flange or valve that defines the start of the customer's house line to provide service to a new gas customer. The work includes procuring land rights and easements, facility design (i.e., estimating, mapping, and engineering), pipe and equipment, meters, permitting, construction, and initial operation of the pipeline system.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC 2F – Build IT Applications and Infrastructure – Includes the costs to design, develop and enhance applications, systems, and infrastructure technology solutions.

This MWC was not presented in the 2023 GRC as related directly to safety and/or reliability and/or maintenance. However, certain projects within this MWC provide support for safety and/or reliability and/or maintenance projects.

MWC 2H – Pipeline Safety Enhance Plan, Capital – This category includes the capital expenditures to replace gas transmission pipelines and perform capital pipe replacements resulting from Pipeline Program strength testing.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to pipe replacements resulting from Pipeline Program strength testing.

MWC 3K – Corrosion Control – Includes plant PG&E installs, replaces, and/or relocates to comply with 49 CFR § 192, Subpart I – Requirements for Corrosion Control.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to Corrosion Control.

MWC 3L – Storage Compliance – Includes safety and reliability work required for gas storage wells. This category of work includes retrofit, repair, or assessment of the storage well to (a) mitigate single point of failure; (b) assess the condition of a well; or (c) perform corrective work.

This MWC relates to safety and/or reliability and/or maintenance work required for gas storage wells which includes retrofit, repair, or assessment of the storage well.

MWC 44 – StanPac, Capital – Includes capital cost of improving the safety and reliability of the StanPac transmission pipeline system. Examples of expenditures in this category include replacing high risk, high consequence pipeline segments and pressure regulating facilities identified by PG&E's Pipeline Risk Management Program. This also includes New Business, WRO, valves, and CP.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to improving the safety and reliability of the StanPac transmission pipeline system.

MWC 73 – GT Pipeline Capacity – Covers capital costs of installing GT facilities to increase the capacity of the GT system to meet customer demand. This work includes installing new gas pipelines, installing pipelines parallel to existing gas pipelines, replacing existing pipelines with a larger diameter and/or higher pressure pipeline, increasing regulating station throughput, adding new gas regulating stations, installing a main to interconnect existing gas systems, and replacing facilities to allow the system to be uprated, which increases operating pressure and capacity.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to installation of new gas transmission facilities, upgrading existing facilities and replacing facilities to allow the system to be uprated, which increases operating pressure and provides for needed additional capacity.

MWC 75 – GT Pipeline Reliability – Includes capital cost of improving the safety and reliability of the GT pipeline system. Examples of expenditures in this category include replacing high risk, high consequence pipeline segments and pressure regulating facilities identified by PG&E's Pipeline Risk Management Program. This MWC also includes expenditures necessary for PG&E to comply with the many subparts in 49 CFR, Part 192, which governs the construction, maintenance, and operation of natural GT pipelines.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to improving the safety and reliability of the GT pipeline system including replacing high risk, high consequence pipeline segments and pressure regulating facilities.

MWC 76 – GT Station Reliability – Includes costs related to maintaining and/or improving the safety and reliability of GT Stations and the auxiliary equipment located at these stations. MWC 76 is divided into four areas of focus: (1) Line 300 Station Reliability – funds capital investment made at compressor, metering, and regulating stations along PG&E's Line 300. It includes costs associated with maintaining and/or improving the safety and reliability of the compressor, measurement, regulating, and auxiliary equipment located at these stations. (2) Line 400/401 Station Reliability – funds capital investments made within PG&E's Line 400/401 Compressor Stations. It includes costs associated with maintaining and/or improving the safety and reliability of the gas compressor and auxiliary equipment located at these stations.

(3) Gas Terminals – funds capital investment made within PG&E's gas terminals and at smaller monitoring and control stations located along the GT pipeline system. (4) Storage Facility Reliability – funds capital investments required to maintain reliable operations at PG&E's three underground storage facilities McDonald Island, Los Medanos, and Pleasant Creek.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to maintaining and/or improving the safety and reliability of gas transmission stations and the auxiliary equipment located at these stations.

MWC 78 – Manage Buildings – Capital Buildings Projects (i.e., facility upgrades/improvements as well as new construction) for Gas Operations.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC 83 – Gas Transmission Work Requested by Others - Gas Transmission Work Requested by Others includes plant PG&E installs, replaces and/or relocates at the request of third parties, typically governmental agencies for public works projects. Cities, counties, developers, and transportation agencies drive the typical WRO relocations.

This MWC does not relate directly to safety and/or reliability and/or maintenance.

MWC 84 – GT Gas Gathering System Manage – Covers capital costs associated with third -party gas well connections/receipts, retirements, and divestitures of PG&E's gas gathering system.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to third -party gas well connections/receipts, retirements, and divestitures of PG&E's gas gathering system.

MWC 98 – Gas Transmission Integrity Management, Capital – Includes capital costs of upgrading pipelines to enable PG&E to inspect them with an ILI tool, and mitigating damage found as a result of the inspection. PG&E operates its IM Program in compliance with the requirements of the Department of Transportation (DOT), 49 CFR, Part 192, Subpart O – Pipeline IM.

This MWC relates to safety and/or reliability and/or maintenance as it involves work related to upgrading pipelines to enable PG&E to inspect them with ILI and mitigating significant integrity concerns found as a result of the inspection.

N. GT&S MAT Descriptions for Safety and Reliability Work – Expense

MAT AH1 – Well Integrity Management Plan (WELL) – Integrity

Assessments – Storage wellbore surveys and assessments, including Gamma

Ray Neutron, Cement Bond Log, Noise/Temperature, Magnetic Flux Leakage

and Sonic surveys and other similar assessments. Does not include

assessments that are completed as part of well rework projects.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Integrity Assessments and Storage wellbore surveys.

MAT AH2 – WELL Reworks – Well assessments and other expenses that are completed as part of storage well integrity assessment rework projects including preparing and isolating wells for assessment activities.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to completion of storage and well integrity assessment projects.

MAT AH3 – WELL, Other – Miscellaneous storage expenses, such as engineering support, IM analysis software, site plans, emergent and emergency support. Also includes wellhead and associated well injection and withdrawal equipment maintenance within the Storage Asset Family boundary. Does not include costs for storage well reworks and integrity assessments that are recorded in MATs AH1 and AH2.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to engineering support and maintenance, emergency preparedness and identification of potential integrity issues early using IM analysis software.

MAT AH4 – **Gill Ranch Operations and Maintenance (O&M)** – Expense funds contributed to, or expenses incurred to fulfill PG&E's obligations under its joint ownership agreement with Gill Ranch Storage LLC.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Gill Ranch Operations and Maintenance.

MAT AH# - Maint Gas Storage Facilities - Expense-related programs for PG&E's underground storage field operations.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to underground storage field operations.

MAT CMA – GT&S Operations – Operate and control the GT&S system; account and bill for wholesale customer activity; plan and conduct engineering analysis for daily operations and to determine capacity available for marketing; plan and conduct engineering analysis for long term backbone, storage, and LT capacity, facility requirements, and operations. These costs are largely for staff. They can also include contract costs, subscription costs, and similar expenses.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to operations and control of GT&S System, conduct engineering analysis for daily operations and to determine capacity available for marketing.

MAT CMB – Electric Power for Gas Compressors – Intercompany Energy Usage Charge for all electric powered GT&S gas compressors.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to ensuring energy supply to gas compressors to maintain proper functioning.

MAT DFA – L&M – L&M underground Gas and Electric Distribution facilities per Underground Service Alert requests. Preparation of maps, process tickets, and perform administrative work, and Gas and Electric damage prevention activities. Does not include L&M for Gas and Electric Distribution or Electric Transmission facilities. Does include calibration/repair of equipment.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to performing damage prevention activities that helps prevent accidental damage to underground facilities and reduces risk of gas leaks.

MAT DFB – Locate and Mark, Standby – Includes observation of work performed within 5 feet of a gas or electric transmission facility or for excavation activity within close proximity of a critical transmission facility.

This MAT relates to safety and/or reliability and/or maintenance as it involves monitoring work conducted in close proximity to transmission facilities minimizing accidental damage and prevents service interruptions.

MAT GFP – Mapping Support Transmission – Transmission Mapping and PFL work that is not directly chargeable to orders. This work includes:

(1) transmission mapping (including PFL) activities not directly charged to orders such as posting obsolete orders, delineations, posting corrections, updating

operating maps and diagrams, asset registry updates and requests for work (RWs), CAP mapping and information and data requests; and (2) special transmission mapping projects related to the integrity and consistency of the data in our systems of record.

This MAT relates to safety and/or reliability and/or maintenance as it includes: (1) transmission mapping (including PFL) activities not directly charged to orders such as posting obsolete orders, delineations, posting corrections, updating operating maps and diagrams, asset registry updates and requests for work (RWs), CAP mapping and information and data requests; and (2) special transmission mapping projects related to the integrity and consistency of the data in our systems of record.

MAT GFQ – GT&D Data Management – Gas Operations Gas Distribution and Transmission data management expenses including gas data stewardship, data quality improvement, and program implementation for data assets under the Data Asset Family management.

This program relates to safety and/or reliability and/or maintenance as it includes Gas Distribution and Transmission data management expenses including gas data stewardship, data quality improvement, and program implementation for data assets under the Data Asset Family management.

MAT GJA – Electrical Interference, Alternating Current – 49 CFR 192.467 requires that protective measures be taken where pipelines run in proximity to alternating current electrical equipment such as substations, transmission towers, and wooden pole -supported power lines. Proximity to these may result in alternating current fault strikes, a significant safety hazard for personnel, or induced alternating current, both of which may also cause accelerated corrosion. This MAT captures work associated with investigation to identify locations with a possible alternating current interference threat, data analyses, risk ranking of inspection data, and non-capital mitigation efforts. In addition, this MAT funds work associated with mitigating arc fault conditions through installation of grounding equipment on electric assets.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to mitigation of risks posed by AC interference near pipelines caused by induced corrosion or fault currents.

MAT GJB – AC – 49 CFR 192.479 481 requires that pipeline operators inspect exposed piping for AC at least once every 3 years. AC may occur when exposed pipeline interacts with moisture in the environment, degrading pipeline integrity. When AC is indicated during AC Patrol (see MAT JOZ), a follow up inspection occurs, which is captured in MAT GJB. Should that inspection show the need for remediation, PG&E may recoat the affected piping and conduct pipeline repairs and pipeline support work to better address the AC. These activities should also be captured in MAT GJB.

This MAT relates to safety and/or reliability and/or maintenance as it involves remediating Atmospheric Corrosion on exposed Gas Transmission piping.

MAT GJC – CP Expense – 49 CFR 192.463 requires the application of CP to buried metallic pipeline to mitigate the threat of external corrosion. If CP levels are inadequate and cannot be made adequate through troubleshooting, PG&E may have to perform additional expense activities to restore CP to adequate levels. Examples include installing insulators, bonds, and recoating less than 100 feet of buried piping. This MAT also covers the expense costs of implementing the 850 Off criterion.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to mitigation of threat of external corrosion and restoring CP to adequate levels thus reducing the risk of corrosion related failures and leaks.

MAT GJD – Test Stations – 49 CFR 192.469 requires PG&E to maintain sufficient test stations or other contact points for electrical measurement to determine the adequacy of CP. Prior to installing test stations to meet this criterion, PG&E must assess the sufficiency of its test stations and other contact points with surveys. Costs associated with these surveys as well as the installation of test stations that do not meet PG&E's capital criteria are recorded in MAT GJD.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to ensuring the adequacy of CP through sufficient test stations or contact points thereby preventing corrosion related deterioration.

MAT GJE – CIS – CIS is a method for determining the adequacy of CP between corrosion monitoring points. This data is used to evaluate the health of

the corrosion control system. Locations of possible active external corrosion are identified and analyzed through excavation and/or direct examination. This MAT is associated with costs for the survey work as well as subsequent excavations/DAs.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to determining the adequacy of CP between corrosion monitoring points which is used to evaluate the health of the corrosion control system.

MAT GJF – Electrical Interference Direct Current (DC) – 49 CFR 192.473 requires each operator whose pipeline system is subjected to stray currents to have a continuing program to minimize the detrimental effects of DC Interference. DC interference expense work includes program management, galvanic anode installation, data analysis, bond wire installation, and coordination efforts with the other asset owners outside of PG&E.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to minimizing detrimental effects of DC interference thus reducing the risk of corrosion related failures and leaks.

MAT GJH – IC – 49 CFR 192.475 192.477 prohibits transportation of corrosive gas unless the corrosivity of the gas is investigated and steps are taken to minimize IC. IC may occur if moisture or corrosive agents are introduced into PG&E's gas system through storage or gas gathering facilities. Routine monitoring for IC includes inline cleaning, testing internal probes/coupons, monitoring drips, and performing liquid analyses. This MAT holds costs for these activities and other IC expense work, such as site specific plans, coupon/probe replacement, and IC investigations conducted by Corrosion Engineering (not ICDA).

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to investigating the corrosivity of gas, monitoring for IC and conducting related activities such as inline cleaning, testing internal probes/coupons, and performing liquid analysis.

MAT GJJ – Low Read Investigations – Low read investigations is non routine testing of low pipe to soil reads documented during transmission leak repairs, direct examinations, ECDA and CIS to ensure appropriate levels of CP

on transmission pipelines. This could include minor mitigation work (such as adjusting a rectifier).

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to conducting low read investigations to identify instances where CP levels are insufficient and performing necessary mitigation work such as adjusting rectifiers.

MAT GJK – Corrosion Support – Holds expense costs related to coatings research, data/program management, field support, and remote monitoring unit licenses.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to monitoring coating performance allowing data/program management, field support, and remote monitoring unit licenses.

MAT GJL – Casings Monitoring – Per internal gas standards, all casings must be monitored on an annual basis to ensure proper isolation from the carrier pipe and compliance with 49 CFR 192.467. However, there are some casings in PG&E's GT system without test stations, leads, vents, or other facilities required to take casing to soil readings. MAT GJL captures costs associated with the specialized testing required to monitor this set of casings.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to monitoring of all casings to ensure proper isolation from the carrier pipe.

MAT GJM – Casings – 49 CFR 192.467 requires that each buried or submerged pipeline be electrically isolated from the protective metallic casings in which they are nested. A metallic or electrolytic contact between these two structures may cause corrosion and requires remediation. This may involve replacing end seals, removing segments of the casing, replacing link seals and insulation spacers, flushing, and draining casings, repairing coatings, and gelling the casing after site restoration. A casing project is considered expense related if a casing less than 100 feet in length is mitigated or if a casing greater than 100 feet is not successfully gelled. Costs associated with casing test station installation are also recorded in MAT GJM.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to remediation activities from corrosion of metallic or electrolytic contact between submerged pipeline and protective metallic casings.

MAT GMD - LNG/CNG - Corrective and Preventive Maintenance on 1 CNG/LNG Trailer. 2 This MAT relates to safety and/or reliability and/or maintenance as it 3 involves work related to Corrective and Preventive Maintenance on CNG/LNG 4 5 Trailer. MAT HPA - TIMP, Other - Covers all work and services associated with 6 7 supporting TIMP. This includes overhead costs and any services and products 8 not specific to any other MAT. This MAT relates to safety and/or reliability and/or maintenance as it 9 involves work related to Transmission Integrity Management program. 10 11 **MAT HPB – Traditional ILI Runs Pigging** – Covers work associated with conducting traditional ILI cleaning and inspection runs on GT pipelines with tools 12 propelled by gas flow. Expense examination and repairs (i.e., digs), are 13 14 recorded in MAT HPI. This MAT relates to safety and/or reliability and/or maintenance as it involves 15 work associated with conducting traditional ILI cleaning and inspection runs on 16 17 GT pipelines. MAT HPC - ECDA Indirect Inspections - Engineering - Covers all work 18 19 associated with the following three of the four phases of ECDA including: 20 (1) Phase 1: Pre-Assessment; (2) Phase 2: Indirect Inspection Testing; and 21 (3) Phase 4: Post Assessment. Phase 3 Direct Examination, ECDA excavations and repairs are recorded in MAT HPN. 22 23 This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Direct assessment for external corrosion threat 24 assessment, as required by CFR 49, Subpart O. 25 26 MAT HPE - TIMP Semi-annual Leak Surveys - Covers leak surveys per 27 192.935 (d)(3), which requires semi-annual leak surveys conducted on Class 3/4 non HCA pipeline operating under 30 percent Specified Minimum Yield Strength 28 29 as required by Subpart O.

MAT HPF – Hydrostatic Testing, IM – Covers hydrostatic tests conducted for the purpose of assessing pipeline identified by TIMP to be in compliance with 49 CFR Part 192, Subpart O. The hydrostatic testing work involves three efforts

This MAT relates to safety and/or reliability and/or maintenance as it

involves work related to leak surveys implemented as P&M measures.

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(1) Review and validation of records to prove a pipeline has had a prior hydrostatic test performed; (2) Pipeline replacement where necessary to prepare a pipeline for testing; and (3) Filling the inside of the pipeline with water and raising the pressure to a predetermined value and holding it for a period of time.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to hydrostatic tests performed to assess for threats in HCA, as required by CFR 49, Subpart O.

MAT HPI – ILI Direct Exam and Repair – Covers direct examination digs and repairs made as a result of the ILI results.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to direct examination digs and repairs made as a result of the ILI runs.

MAT HPJ – ICDA Indirect Inspections – Covers all work associated with the following three of the four phases of ICDA including: (1) Phase 1: Pre-assessment, (2) Phase 2: Region Identification, and (3) Phase 4: Post Assessment. Phase 3: Direct Examination, ECDA excavations and repairs, are recorded in MAT HPO.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Direct assessment for internal corrosion threat assessment, as required by CFR 49, Subpart O.

MAT HPK – SCCDA Indirect Inspections – Covers all work associated with the following three of the four phases of SCCDA including: (1) Phase 1: Pre assessment; (2) Phase 2: Indirect Inspection Testing; and (3) Phase 4: Post Assessment. Phase 3: Direct Examination, ECDA excavations and repairs, are recorded in MAT HPP.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Direct assessment for stress corrosion cracking threat assessment, as required by CFR 49, Subpart O.

MAT HPM – Replacements – Replacements on pipe segments less than 50 feet due to IM threats.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to pipe replacements, less than 50 feet, due to integrity concerns identified during threat assessments.

MAT HPN - ECDA Direct Examinations - Costs related to ECDA Phase 1 2 3, Direct Examination, which includes the excavations and repairs including Dig Program Management Office (PMO) overhead, excavation costs, permitting, 3 4 mapping, etc. 5 This MAT relates to safety and/or reliability and/or maintenance as it involves the excavations, direct examinations and any repairs required by ECDA 6 indirect inspections. 7 8 **MAT HPO – ICDA Direct Examinations** – Costs related to ICDA Phase 3, Direct Examination, which includes ICDA excavations and repairs including Dig 9 PMO overhead, excavation costs, permitting, mapping, etc. 10 11 This MAT relates to safety and/or reliability and/or maintenance as it involves the excavations, direct examinations and any repairs required by ICDA 12 indirect inspections. 13 14 MAT HPP - SCCDA Direct Examinations - Costs related to SCCDA Phase 3, Direct Examination, which includes SCCDA excavations and repairs 15 including Dig PMO overhead, excavation costs, permitting, mapping, etc. 16 17 This MAT relates to safety and/or reliability and/or maintenance as it involves the excavations, direct examinations and any repairs required by 18 19 SCCDA indirect inspections. 20 MAT HPR - Non-Traditional ILI Runs Pigging - Covers work associated 21 with conducting non-traditional ILI cleaning and inspection runs on GT pipelines with tools propelled by robot or cable. 22 23 This MAT relates to safety and/or reliability and/or maintenance as it 24 involves work related to non-traditional ILI cleaning and inspection runs on GT pipelines. 25 26 **MAT HPS – Geo-hazard Studies** – Consists of identification. 27 characterization, and monitoring of geo-hazards along the gas transmission corridor. 28 29 This MAT relates to safety and/or reliability and/or maintenance as it involves

MAT HPT – Root Cause Analysis – Failure, incident, and leak investigations for IM. This is for engineering lab analysis; not for performing cut outs or repairs.

annual work related to failure, incident and leak causal investigations to better

inform threat identification required by CFR 49, subpart O.

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This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Failure, incident, and leak investigations for IM.

MAT HPU – TIMP Direct Examinations – Direct Examination as an assessment method. Activities include excavation, examination, repair, and continual evaluation.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to utilizing direct examination to perform threat assessments, which includes include excavation, examination, and repair, as required by CFR 49, Subpart O.

MAT JOA – Rectifier Maintenance – 49 CFR 192.465(b) requires that each CP system rectifier (or other impressed current source) be inspected six times per calendar year, with intervals not exceeding two and a half months. In addition, PG&E requires annual maintenance on rectifiers, which includes safety requirement inspection, ground resistance measurements, and rectifier output recordings. MAT JOA captures costs associated with these activities.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to annual maintenance on rectifiers, which includes safety requirement inspection, ground resistance measurements, and rectifier output recordings.

MAT JOB – CP Monitoring – 49 CFR 192.465(a) requires that all pipeline under CP must be tested at least annually, with intervals not exceeding 15 months. Similarly, 49 CFR 192.465(c) requires that each current switch, diode, and critical interference bond be examined for proper performance six times annually, with intervals not exceeding two and a half months. Routine monitoring activities intended to comply with these provisions include: pipe to soil reads, casing to soil reads, anode measurements, switch and diode inspections, bond inspections, and soil resistivity measurements. Costs associated with these activities are recorded in MAT JOB.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to testing of all pipeline under CP which includes activities like pipe to soil reads, casing to soil reads, anode measurements, switch and diode inspections, bond inspections, and soil resistivity measurements.

MAT JOC – CP Troubleshooting – 49 CFR 192.465(d) requires PG&E to take prompt remedial action to correct any deficiencies indicated by routine CP

monitoring. Troubleshooting is a critical component of this remedial action. MAT JOC captures all costs associated with troubleshooting performed by corrosion mechanics. Note, corrective work performed by construction crews is recorded in MAT JOQ.

This program relates to safety and/or reliability and/or maintenance as it includes troubleshooting Cathodic Protection Areas which are operating outside of allowable range and determining necessary corrective action.

MAT JOE – Ground Leak Survey – Perform foot and mobile surveys of transmission pipelines (including on waterways). Includes related mapping and contract work in support of activity (e.g., preparing survey map packages, entering leak check/recheck information into the leak tracking program, etc.). TIMP leak survey (second of semi-annual surveys) is recorded in MAT HPE. Includes leak survey equipment calibration. Station leak survey is recorded in MAT JPE.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to foot and mobile surveys of transmission pipelines.

MAT JOF – Required Ground Pipeline Patrol – Perform ground Pipeline Patrols for compliance, as well as special investigations including, but not limited to, excavation, structural encroachments, earth movements, and changes in human occupancy. Includes ground patrol within no-fly zones and ground patrol investigations in response to aerial patrol observations.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to ground Pipeline Patrols for compliance and investigations conducted including excavation, structural encroachments, earth movements, and changes in human occupancy.

MAT JOG – PM Gas Regulator General – PM at regulator stations and/or PLS "inside the fence," including regulators, automated valves, manual valves, odorizers, separators, filters, and vault inspections. Costs to dewater the vault to perform PM and inspection are recorded to PM. SCADA maintenance is recorded in MAT JO1. Meter and Chromatograph Maintenance are recorded in MAT JOX.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Preventative maintenance at regulator stations and/or pressure limiting stations (PLS) (inside the fence).

MAT JOH – PM Gas Pipeline Valve Manual – Perform scheduled inspection of Transmission manual valves, outside of stations. Clean/pump out vaults/enclosures. MAT includes maintenance performed on fire valves (inlet/outlet valves) on distribution regulator stations.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to scheduled inspection of Transmission manual valves, outside of stations and maintenance performed on fire valves (inlet/outlet valves) on distribution regulator stations.

MAT JOI – PM Gas Pipeline Valve Automated – Perform scheduled inspection of Transmission automated valves and actuators, outside of stations. Clean/pump out vaults/enclosures. SCADA transmitter inspection/maintenance is recorded in MAT JO1.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to inspection of Transmission automated valves and actuators, outside of stations. Clean/pump out vaults/enclosures.

MAT JOJ – Gas Holders Maintenance – PM and CM on GT Holders and associated equipment.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to gas transmission holders and maintaining equipment like GT Holders. maintenance.

MAT JOK – Operate Transmission Pipelines – Take odorometer readings ("sniff tests"); calibrate fixed test gauges and portable pressure recorders; calibrate tools and equipment (excluding those used for leak survey or L&M); monitor pressures; remove line liquids; service separators; and replace filters.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to calibration of calibrating tools and equipment, monitoring of pressures fixing test gauges, removing line liquids and replacement of replacing filters.

MAT JOL – Operate Transmission Regulator Station – Control the supply and flow of gas through the Transmission system; adjust regulator flow rates; change transmission station charts; maintain station pressure; troubleshoot system pressure or gauges. Perform maintenance on mechanical permanent chart recorders. Note: The downloading of electronic recorder transmitter

(ERX) chart data is counted as one unit, regardless of the number of charts downloaded.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to controlling the supply and flow of gas through the Transmission system; adjusting regulator flow rates, maintaining the station pressure, troubleshooting the system pressure or gauges, maintaining mechanical permanent chart recorders.

MAT JOM – CM Gas Regulator General – CM at regulator stations and/or PLS "inside the fence," including regulators, automated valves, manual valves, odorizers, separators, filters, and vaults. Costs to dewater the vault to perform CM is recorded in MAT JOM. SCADA CM is recorded in MAT JO2. Meter and Chromatograph Maintenance are recorded in MAT JOY.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to corrective maintenance at regulator stations and/or pressure limiting stations (PLS) (inside the fence).

MAT JON – CM Gas Pipeline Valve Manual – Repair or replace (up to two inches) Transmission pipeline manual valves, outside of stations. Repair/seal vaults and lids. MAT includes CM performed on fire valves (inlet/outlet valves) on distribution regulator stations.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to repair and replacement of Transmission pipeline manual valves, outside of stations.

MAT JOO – CM Gas Pipeline Valve Automated – Repair or replace (up to two inches) Transmission automated pipeline valves and actuators, outside of stations. Repair/seal vaults and lids. SCADA transmitter repair is recorded in MAT JO2.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to repair and replacement of Transmission automated pipeline valves and actuators, outside of stations.

MAT JOP – CM Gas Main Leak – Expense repair of all non dig-in leaks on any transmission pipelines and associated appurtenances (flanges, valves, etc.,) including repair at pipeline stations. Excludes leak repair at Compressor stations and Brentwood and Milpitas Terminals. Includes leak pinpointing and related mapping work in support of activity.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Expense repair of all non-dig in leaks on any transmission pipelines including repair at pipeline stations.

MAT JOQ – CP CM – 49 CFR 192.465(d) requires PG&E to take prompt remedial action to correct any deficiencies indicated by routine CP monitoring. If troubleshooting conducted by corrosion mechanics fails to remedy the deficiency, CP may be necessary. CM may include: repairing existing anodes or rectifiers, excavating gas facilities to install insulating material, or restoring a downed CPA w/o replacing capital plant.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to remedial actions taken to correct any deficiencies indicated by routine CP monitoring.

MAT JOR - Leak Rechecks - Recheck leaks according to leak grade.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to leak rechecks.

MAT JOS – Pipeline Marker Maintenance – Repair or replace pipeline markers and indicators on transmission lines, includes warning signs where the pipeline crosses navigable waterways.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to repair and replacement of pipeline markers and indicators on transmission lines.

MAT JOT – Routine Weed Abatement – This subprogram covers weed abatement surrounding PG&E facilities, such as compressor stations, storage fields, regulator stations, and meter stations. Vegetation management and remediation efforts to maintain GT pipeline ROW and ensure safe access to pipelines for maintenance or repair is recorded in MAT JTK.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to weed abatement surrounding PG&E facilities, such as compressor stations, storage fields, regulator stations, and meter stations.

MAT JOV – Required Aerial Pipeline Patrol – Pipeline patrol performed via helicopter or fixed wing aircraft.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to required pipeline patrol.

MAT JOW – Aerial Leak Survey – Perform aerial leak surveys of transmission pipelines. Includes related mapping and contract work in support of activity (e.g., preparing survey map packages, entering leak check/recheck information into the leak tracking program, flight costs etc.) TIMP leak survey (second of semi-annual surveys) is recorded in MAT HPE.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to aerial leak surveys of transmission pipelines.

MAT JOX – PM Meter Maintenance, Meter and Chromatograph –includes scheduled inspection, calibration, and planned maintenance of gas metering equipment including transmission meters, chromatographs, sulfur analyzers and odorizers.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to inspection, calibration, and planned maintenance of gas metering equipment.

MAT JOY – CM Meter Maintenance – Repairs and CM to gas metering equipment including transmission meters, chromatographs, Sulfur Analyzers and odorizers.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Repairs and CM to gas metering equipment.

MAT JOZ – AC Patrol – 49 CFR 192.481 requires PG&E to inspect each pipeline or portion of pipeline that is exposed to the atmosphere for evidence of AC at least once every 3 calendar years. AC inspections consist of two components, an initial survey and a follow up investigation when potential AC is indicated. MAT JOZ captures costs associated with the initial survey and MAT GJB captures costs associated with the follow up investigation and remediation if necessary.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to patrols and inspection of pipelines for remediation from atmospheric corrosion.

MAT JO1 – PM SCADA Maintenance – Inspection and PM on transmission SCADA equipment including Remote Terminal Units (RTU), ERXs, transmitters, and transducers.

This MAT relates to safety and/or reliability and/or maintenance as it involves

work related to Inspection and preventive maintenance on transmission SCADA equipment.

MAT JO2 – CM SCADA Maintenance – Repairs and CM on transmission SCADA equipment including RTUs, ERXs, transmitters, and transducers.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to repairs and corrective maintenance on transmission SCADA equipment.

MAT JO# - GT Pipeline Maintenance – routine maintenance on the Backbone including Bay Loops and Local Transmission Pipelines.

This MAT relates to safety and/or reliability and/or maintenance as it involves work/costs related to MWC JO, including standard cost variance.

MAT JPA – PM StorCompStat Piping Assets – PM on station piping outside the compressor building at backbone compressor stations, PG&E storage facilities and terminals. Include maintenance of instruments, regulators, valves, meters, orifice plates, sulfur analyzers and chromatographs.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to preventive maintenance on station piping outside the compressor building at backbone compressor stations, PG&E storage facilities and terminals.

MAT JPB – CM StorCompStat Piping Assets – CM and repair on station piping outside the compressor building at backbone compressor stations, PG&E storage facilities and terminals. Include maintenance to instruments, regulators, valves, meters, orifice plates, sulfur analyzers and chromatographs.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Corrective maintenance and repair on station piping outside the compressor building at backbone compressor stations, PG&E storage facilities and terminals.

MAT JPC – PM StorCompStat GasProcess – Routine PM to gas processing equipment, including: (1) reboilers: all equipment on skids, including, but not limited to pumps, motors, heat exchangers, burners, controls, filters, and gauges; (2) thermal oxidizer unit: all equipment, including: Variable Frequency Drivers (VFD), blowers, burner, fuel gas; (3) methanol: pumps, gauges, reliefs, vapor testing, ordering of methanol; (4) filter separators: elements, gauges, dump valve; (5) glycol, coolant and odorant; and 6) cooling towers.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to routine preventive maintenance to gas processing equipment including reboilers, thermal oxidizer unit, methanol pumps and filter separators.

MAT JPD – PM StorCompStat Gas Compressor – PM inside the compressor building at backbone compressor stations and storage facilities. Includes maintenance to (1) compressor drive units; controls, turbines, heads, plugs; (2) compressors; valves, engine control equipment; (3) turbo chargers; (4) auxiliary compressor equipment; fuel, lubrication, filters, Condition Based Maintenance (CBM); (5) gas, water, and oil cooling systems; and (6) consumables used for compressors and power generators; lube oil, cylinder oil.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to preventive maintenance inside the compressor building at backbone compressor stations and storage facilities.

MAT JPE – PM StorCompStat Support – Routine PM to equipment at backbone compressor stations, PG&E storage facilities and terminals, including (1) Programmable Logic Controllers (PLC), Human Machine Interface (HMI), SCADA, and alarm systems; (2) air compressors, air dryers, air systems; (3) evaporation ponds; (4) hydraulic systems; (5) fire water systems; (6) raw water or freshwater systems; and (7) tool calibrations. Includes leak survey of backbone compressor stations, storage facilities and terminals. Storage well leak surveys are recorded in MAT JPO.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to routine preventive maintenance to equipment at backbone compressor stations, PG&E storage facilities and terminals.

MAT JPG – CM StorCompStat Gas Process – CM and repair to gas processing equipment, including: (1) reboilers; all equipment on skids including but not limited to pumps, motors, heat exchangers, burners, controls, filters, and gauges; (2) Thermal Oxidizer (ToX) unit: all equipment including VFD, blowers, burner, fuel Gas; (3) methanol: pumps, gauges, reliefs; (4) filter separators: elements, gauges, dump valve repair; and (5) cooling towers.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to corrective maintenance and repair to gas processing equipment including reboilers, ToX unit, Methanol Pumps and Filter Separators.

MAT JPH – CM StorCompStat Gas Compress – CM and repair inside the compressor building at backbone compressor stations and storage facilities. Includes maintenance to: (1) Compressor Drive Units; Controls, Turbines, Heads, Plugs; (2) Compressors; Valves, Engine Control Equipment; (3) Turbo Chargers; and (4) Auxiliary Compressor Equipment; Fuel, Lubrication, Filters, CBM, Gas, water, and oil cooling Systems.

 This MAT relates to safety and/or reliability and/or maintenance as it involves work related to corrective maintenance and repair inside the compressor building at backbone compressor stations and storage facilities.

MAT JPI – CM StorCompStat Support – CM and repair to equipment at backbone compressor stations, storage facilities and terminals, including: (1) PLC, HMI, SCADA, and alarm systems; (2) air compressors, air dryers, air systems; (3) evaporation ponds; (4) Hydraulic systems; (5) fire water systems; and (6) raw water or fresh water systems. For minor leak repairs, costs are recorded in the MAT tied to the asset being repaired.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to corrective maintenance and repair to equipment at backbone compressor stations.

MAT JPK – PM Power Units – Routine PM to all Power Unit equipment, including: Electrical Generation Power units; Standby/Emergency Generators; UPS; MCC switchgear, Auto Transfer Switch (ATS).

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to routine preventive maintenance to all Power Unit equipment.

MAT JPL – CM Power Units – CM and repairs to all Power Unit equipment including Electrical Generation Power units; Standby/Emergency Generators; UPS; MCC switchgear, ATS.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to corrective maintenance and repair to all Power Unit equipment.

MAT JPN – Station Operations – Costs associated with the daily, 24 hour operations of station facilities, including: (1) operators' labor on shift; (2) Emergency Shutdown (ESD) Testing; (3) maintenance plan required inspections of fire extinguishers, first Aid/AED; and (4) eyewash inspections.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to station operations (24-hr operations of station facilities), inspection plans involving fire extinguishers and first aid/AED.

MAT JPO – PM Storage Wells – PM of equipment from the well head down, including: (1) well heads; uphole safety valve (UHSV), downhole safety valve (DHSV), master sates; (2) sand inspections, surface casings, wire lines; (3) reservoir engineering support; (4) well meter runs; orifice plates, gauges, line rupture controls, solenoids, UHSV and DHSV Controls; and (5) leak survey of the well heads.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to preventative maintenance of storage wells and its equipment (i.e. preventative maintenance of all equipment from the well head down).

MAT JPP – CM Storage Wells – CM of equipment from the well head down, including: (1) well heads; UHSV, DHSV, master gates; (2) surface casings, wire lines; (3) reservoir engineering support; (4) well meters; orifice plates, gauges, line rupture controls, solenoids, UHSV, and DHSV Controls; and (5) leak repair at the well heads.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to corrective maintenance and repair to storage wells (i.e. corrective maintenance of all equipment from the well head down).

MAT JPQ – CARB Leak Survey – Expense survey includes Method 21 quarterly surveys at 12 facilities, inventory inspection, leak pin pointing, audio visual inspections. Includes the CalGEM daily leak surveys at the storage facilities.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to performing quarterly surveys at facilities, carrying out inventory and audio-visual inspections and also by carrying out daily leak surveys at storage facilities.

MAT JPR – CARB Leak Repairs – Expense repairs attributed to leaks found as a result of a quarterly Method 21 survey at one of the 12 transmission facilities (three storage: McDonald Island, Pleasant Creek, Los Medanos and 9 compressor stations: Tionesta, Burney, Gerber, Delevan, Bethany, Santa Rosa, Kettleman, Hinkley, Topock). Includes repairs of leaks found by the CalGEM leak survey.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to identification and repair of leaks through quarterly method 21 surveys and CALGEM leak surveys at transmission facilities.

MAT JP# - GT Station Maintenance - Preventative maintenance and corrective repairs to Storage, Compressor Station, or Terminal equipment not covered by another specific MAT.

This MAT relates to safety and/or reliability and/or maintenance as it involves work/costs related to MWC JO, including standard cost variance.

MAT JTB – Pipeline Repair – Expense pipeline repair projects: Pipeline repairs (leak, corrosion, weld, or damage, etc.) where a non-capital asset was installed (clamp, sleeve, etc.), and/or pipe <50 feet was cut out and replaced; Third -party damage or dig-ins; and other safety and reliability expense repairs (gas gathering sales, etc.).

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to identification and repair of leaks, corrosion, weld, and damages by installing non-capital assets. This includes third party damage, and other safety or reliability expense repairs.

MAT JTC – Hydrostatic Testing, D.11-06-017 – Costs for hydrotesting when driven by the TVC records (CPUC D.11 06 017). Class Location change hydrotests are recorded in MAT JT9, and IM hydrotests are recorded in MAT HPF.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to carrying out hydrotests to ensure the safety of our gas pipelines.

MAT JTD – Pipeline Other Expense – Pipeline Other work includes: Scoping studies and field investigations (such as Maximum Allowable Operating Pressure (MAOP) discoveries), potential mechanical damage investigations, anomaly investigations, operational pigging when necessary, for assessment of liquids after a liquid upset condition and other investigatory work where excavation or internal assessment is required at pipe related facilities. Depending on the results, repair work may be required.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to pipeline investigations.

MAT JTH – Permits & Fees Projects – Permits and fees associated with the operations of transmission stations, including, but not limited to McDonald

Island Reclamation Fees, Gas Lease Fees, DOT Fees, American Gas Association Nonlobbying Dues, Lease Payments etc.

This MAT relates to safety and/or reliability and/or maintenance as it involves payment of permits and fees associated with the operations of Gas Transmission stations.

MAT JTK – GT Vegetation Management – Vegetation Management
Operations take place to support the safety and integrity of gas pipelines through
removal and abatement of vegetation encroachments on the ROW per IM
standards. This work includes a foot patrol to document conditions of
surrounding vegetation and identify new plantings. This work is conducted to
help provide safe access to operate, maintain, and respond in the event of an
emergency.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to removal and abatement of vegetation encroachments on the ROW per IM standards, a foot patrol to document conditions of surrounding vegetation and identify new plantings, also to help provide safe access to operate, maintain, and respond in the event of an emergency.

MAT JTL – Station Gas Safety Excellence – Includes project costs for the support and enhancement of the development of the Facility IM Program; this includes risk identification, algorithm development, data integration, prioritization of mitigation activities, root cause analysis, process safety support, and related activities that align with PG&E's Gas Safety Excellence principles.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to support and enhancement of the development of the Facility IM Program; this includes risk identification, algorithm development, data integration, prioritization of mitigation activities, root cause analysis, process safety support.

MAT JTM – GT Capacity Uprates – Conduct hydrotests and similar activities to increase the MAOP-S of a hydraulically independent system for the primary purpose of increasing its capacity, as an alternative to increasing system capacity by installing new facilities. This is in contrast to hydro testing and similar activities undertaken primarily to restore the MAOP of a pipe segment (not necessarily a system) for which the pressure was reduced for safety reasons.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to conducting hydrotests to increase the MAOP-S of a hydraulically independent system for the primary purpose of increasing its capacity.

MAT JTO – Encroachments Structures and ROW – Mitigation of pipeline encroachments such as stockpiling, equipment, or structures on ROW, maintenance of pipeline access roads, ROW clean up and access issues not related to vegetation management.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Mitigation of pipeline encroachments such as stockpiling, equipment, or structures on ROW, maintenance of pipeline access roads, ROW clean up.

MAT JTQ – Class Location Studies – Costs for routine Class Location studies, including orthographically corrected aerial photography, occupancy field verification, creation of a digitized structures layer, and annual class analysis.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to orthographically correction of aerial photography, occupancy field verification, creation of a digitized structures layer, and annual class analysis as well as maintaining costs for routine Class Location studies.

MAT JTR – Valve Program – Expense costs for valve replacements of inoperable or hard to operate valves that are greater than two inches in diameter and valve repair (non-CP type repairs such as replacement of operator extension, gearbox, etc.), regardless of valve size. May also include valves that are replaced for class location changes; valves that are leaking; and replacement of other reliability valves.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to replacement of valves in case of class location changes or valves which were leaking, replacement of other reliability valves.

MAT JTT – Geohazard Mitigations – Expense geohazard mitigation work triggered by recommendations from Geohazard Studies. Includes but not limited to drainage redirection, riprap, sandbags, and gabion baskets.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to carrying out mitigation work based on recommendations from geohazard studies, carrying out drainage redirection, riprap, sandbags, and gabion baskets.

MAT JTV – Station Strength Tests – Includes work associated with strength testing of station piping and components identified by ECA 1 or ECA2 at both compression and processing (C&P) and M&C facilities. This MAT will only include the recoverable portion of the costs (i.e., Strength Testing costs associated with stations built on or before January 1, 1956).

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to strength testing of station piping and components identified by engineering critical assessments at GT facilities.

MAT JTW – Routine Spend M&C – Includes costs for M&C Routine Spend Expense for the following work:

- Station Auxiliary M&C Projects: includes wide assortment of projects within the M&C Asset Family that are typically unique occurrences and do not qualify for another M&C program, examples of this type of work include: retirements, odorant, odorizer modifications, traffic barriers, containment repairs, filter separator maintenance, major chromatograph maintenance, temporary clamp on meters, process improvement, meter repairs, etc.
- Station Valves & Actuators M&C Projects: Includes expense projects related to the assessment and repair of all valves, actuators, monitors, and controllers within the station boundary and not otherwise encompassed in specific M&C programs with the following exception.
- Any Inoperable valves or Hard to Operate Valves even the ones within station boundary that are not specifically addressed in a station rebuild project are recorded in in MAT JTR.
- Station Electric/Instr/Controls M&C: This program includes expense projects related to the assessment and repair of controls, transfer switches, grounding grids, batteries, SCADA RTUs, data capture and trending, lighting, electrical circuits, etc., that are not otherwise encompassed in specific M&C programs and are not included as part of MWC JT.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to targeted component replacement and maintenance at measurement and control stations, such as repair of failed equipment and instrumentation and modifications to address equipment safety or performance issues.

MAT JTX – GT OPP – Includes: Installation of pilot filters (e.g., Sulfur-gon filters) to reduce the likelihood of pilot operated regulator or monitor failure due to sulfur; system planning studies to identify the most effective secondary OPP option for specific stations; development of new design of new standards for Transmission Large Volume Customers (LVC); program management for developing and maintaining the master over pressure elimination plan and

schedule; and pilot studies on new equipment technologies for applicability to the PG&E system.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to overpressure protection activities, such as installation of pilot filters.

MAT JTY – Routine Spend C&P Expense – Includes Routine Spend C&P expense for the following work:

- Station Auxiliary C&P Projects: Includes a wide assortment of projects
 within the C&P Asset Family that are typically unique occurrences and do
 not qualify for another C&P program, examples of this type of work include:
 inspection and repair for To X units, standby generators, cooling towers,
 containments, discharge piping, vessels, crane access platforms, reboilers,
 water pumps, unit gaskets, inverters, etc. It can also include station
 baseline assessments, environmental assessments, records review, and
 implementation plans.
- Station Compression C&P Projects: Includes costs related to equipment leases, service contracts, maintenance agreements, equipment overhauls and other related repairs.
- Station Electric/Instr/Controls C&P Projects: Includes expense projects
 related to the assessment and repair of MCCs, relays, control panels,
 batteries, wiring and conduits, data capture and trending, PLCs, lighting,
 conductors, electric buckets, ATS, switchgear, etc., that are not otherwise
 encompassed in specific C&P programs and are not included as part of
 MAT JP.
- Station Valves & Actuators C&P Projects: Includes expense projects related to the assessment and repair of all valves, actuators, monitors & controllers not otherwise encompassed in specific C&P programs and are not included as part of MWC JP.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to compression and processing facilities, such as for station auxiliary projects, station compression projects, station instrumentation projects and station valves/actuator projects.

MAT JT0 – Public Awareness – Covers all work that supports the PAP requirements based on the American Petroleum Institute's Recommended

Practice 1162 (RP1162), 1st Edition, December 2003, that requires pipeline operators to develop and implement gas safety and damage prevention focused on public education programs that address key stakeholder audiences including the affected public, emergency officials, public officials, and excavators.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to developing pipeline operators and implementing gas safety and damage prevention.

MAT JT1 – Engineering Support – Pipeline Engineering support orders for work done throughout the system.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to engineering support for pipelines.

MAT JT2 – Water and Levee Crossings – Expense costs for the Water and Levee Crossing Program. These costs include the assessment and monitoring of water and levee crossings. These costs are not limited to jurisdictional water and levee crossings.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to assessment and monitoring of water and levee crossings.

MAT JT3 – Fault Crossings – Costs for: (1) conducting studies of locations where GT pipelines cross known earthquake fault lines; and (2) long term ongoing monitoring of fault creep of mitigated crossings.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to long term monitoring of fault creep of mitigated crossings and deep diving to figure out locations where pipelines cross earthquake fault lines.

MAT JT4 – Shallow and Exposed Pipe – Expense costs for assessing and mitigating shallow and exposed pipe as required. Expense remediation options include excavation along the length of the pipeline to allow lowering to an acceptable depth of cover (only an option if the required depth of cover can be met without adding excessive external stresses to the pipeline) and protection of the pipeline by installing additional cover, concrete cap, or permanent bridging structure over the shallow location.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to remediation options that include excavation, protection of pipeline by installing additional cover.

MAT JT6 – Non-IM Pipe Replacements In lieu of Hydrotest – Includes pipe replacements that are less than 50 feet in length and are being replaced in lieu of hydrostatic testing for programs such as the hydrostatic testing program being done to address TVC records (D.11 06 017). IM pipe replacements in lieu of hydrotest are recorded in MAT HPM.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to pipe replacements that are less than 50 feet in length and are being replaced in lieu of hydrostatic testing for programs such as the hydrostatic testing program being done to address TVC records (D.11-06-017).

MAT JT8 – Gas Quality Assessment, Expense – Includes the cost for the following – Development of a comprehensive program description and execution plan, Preparation of guidance documents including Standard(s) and supporting Work Procedures, Preparation of training materials, Performance of Interchangeability study for Chico and Sacramento areas (due to British thermal unit fluctuations) (example; similar programs should use this MAT Code), Research and Mapping locations of sulfur and liquids, and study costs to determine the system wide impact of biomethane on gas quality.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to ensuring that the quality of the gas delivered is suitable for transmission and distribution by PGE and for end users, is properly odorized and meets regulatory requirements.

MAT JT9 – Hydrostatic Testing, Class Location – Costs to hydrotest pipe where hydrotesting is the appropriate mitigation when the Class location study program has identified a need to mitigate due to a class location change.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to hydrotest pipes.

MAT KEX - PSEP Pipeline Other Expense – Includes Pipeline Safety Enhancement Plan expenses. PSEP was an extensive, multi-year plan for enhancing the safety of PG&E's transmission pipeline system.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to review of the Integrated Asset Register/GIS for the core source of data and mobile capabilities and asset analytics.

MAT LU1 – Critical Documents Expense – Covers work associated with the Critical Documents project, which addresses critical documentation

delineated in PG&E's Standard TD 4551S, and identifies, modifies, and/or develops documentation to comply with TD 4551S. Projects involve research of the existing documents, review, validation (with field verification), and update of the existing documentation. This MAT will only include a recoverable portion of the costs for Critical Documents (i.e., costs associated with developing critical documents for stations built on or before January 1, 1956).

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to critical documents project, which addresses critical documentation delineated in PG&E's Standard and identifies, modifies, and/or develops documentation to comply with the standards.

MAT LV1 – ECA 1 – Involves research of construction and manufacturing documentation to create and modify Station Feature Lists, which contain an itemized record of station assets and associated specifications, supporting documentation for the assets, and tools to identify possible discrepancies of MAOP compliance which may require field investigation or remediation to resolve. Project will help identify changes to equipment or operations required to achieve compliance and will help prioritize downstream projects of ECA 2 and Strength Testing. This BA will only include a recoverable portion of the ECA 1 work. Recoverable costs are defined as: (1) Pre 1956: Costs are recoverable if component was installed before January 1, 1956; and (2) Post 1955: Costs are recoverable if component is installed on or after January 1, 1956 only if PG&E has TVC records of the asset component strength test.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to research of construction and manufacturing documentation to create and modify Station Feature Lists.

MAT LV2 – ECA 2 – Addresses remediation of discrepancies through procedures which may carry lower risk than strength testing within stations. Project may identify changes to equipment or operations required to achieve compliance. This BA will only include a recoverable portion of the ECA 2 work. Recoverable costs are defined as: (1) Pre 1956: Costs are recoverable if component was installed before January 1, 1956; and (2) Post 1955: Costs are recoverable if component is installed on or after January 1, 1956 only if PG&E has TVC records of the asset component strength test.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to remediation of station components that lack test records and material properties.

MAT 34A – Stan Pac Expense – Maintenance is generally defined as work that keeps a facility operational. It involves repairs and upkeep to the facility. These costs are not a PG&E expense and are billable to StanPac.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to maintenance, repair to keep the facility operational.

O. GT&S MAT Descriptions for Safety and Reliability Work – Capital MAT 21C – Gas Pipeline Operations and Maintenance (GPOM) Non Engineering, Capital – Gas transmission non-engineering capital expenditures, covering district transmission facilities for routine spend.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to gas pipeline operations and maintenance.

MAT 2H1 – PSEP Pipe Replacement – Replace pipeline, targeting pipeline segments that are in highly populated urban areas, have vintage seam welds, or have not been strength tested.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to replacing pipeline, targeting pipeline segments that are in highly populated urban areas, have vintage seam welds, or have not been strength tested.

MAT 3K1 – IC – 49 CFR 192.475 et seq. prohibits transportation of corrosive gas unless the corrosivity of the gas is investigated and steps are taken to minimize IC. IC may occur if moisture or corrosive agents are introduced into PG&E's gas system through storage or gas gathering facilities. Monitoring and mitigation efforts are required to control the adverse effects of IC. Capital IC mitigation includes the installation of chemical injection pumps, drip replacement, Electron Microscopy coupon mounting devices, and permanently mounted Ultrasonic Thickness sensors.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Monitoring and mitigation efforts to control the adverse effects of IC which includes the installation of chemical injection pumps, drip replacement, Electron Microscopy coupon mounting devices.

MAT 3K4 – Electrical Interference – Alternating Current – 49 CFR 192.467 requires that protective measures be taken where pipelines run in proximity to electric transmission lines. Proximity to these may result in the induction of alternating current to the pipe as well as fault strikes. These may cause accelerated corrosion and pose a significant safety hazard. Capital mitigation activities include relocating the electric facility or gas piping, placing high resistance media between the two facilities, creating "shields" to absorb the fault, installing polymer casings, reducing the tower to ground resistance, installing/replacing ground rods, and installing decoupling equipment.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to relocating the electric facility or gas piping, placing high resistance media between the two facilities, creating "shields" to absorb the fault, installing polymer casings, reducing the tower to ground resistance, installing/replacing ground rods, and installing decoupling equipment.

MAT 3K5 – Casings – 49 CFR 192.467 requires that each buried or submerged pipeline be electrically isolated from the metallic casing it is within. A metallic or electrolytic contact between these two structures may cause corrosion and requires mitigation. This may involve replacing end seals, removing segments of the casing, replacing link seals and insulation spacers, flushing, and draining casings, repairing coatings, and gelling the casing after site restoration. A casing project is considered capital if a casing greater than 100 feet in length is mitigated and successfully gelled or if a casing of any length is removed.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to casing greater than 100 feet in length which is mitigated and successfully gelled or if a casing of any length is removed.

MAT 3K6 – New CP Systems – 49 CFR 192.463 requires the application of CP to buried metallic pipeline to mitigate the threat of external corrosion. If CP levels are inadequate and cannot be made adequate through troubleshooting, PG&E must either replace existing systems or install new equipment. This MAT encompasses the latter: the installation of new CP equipment, such as anodes (ground beds), rectifiers, and remote monitoring units.

This MAT relates to safety and/or reliability and/or maintenance as it involves

work related to mitigation of the external corrosion threat, installation of new CP equipment, such as anodes (ground beds), rectifiers, and remote monitoring units.

MAT 3K7 – CP Replacement – 49 CFR 192.463 requires the application of CP to buried metallic pipeline to mitigate the threat of external corrosion. If CP levels are found to be inadequate and cannot be made adequate through troubleshooting, PG&E must either replace existing systems or install new equipment. This MAT encompasses the former: the replacement of rectifiers, anode beds, and remote monitoring units. It also encompasses recoating 100 feet or more of pipeline.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to mitigation of the external corrosion threat, replacement of rectifiers, anode beds, and remote monitoring units.

MAT 3K8 – Test Station Installation – Work intended to meet the requirements of 49 CFR 192.469 to achieve "sufficient test stations" on PG&E's transmission pipeline system. PG&E's corrosion control standard requires a CP test point at intervals of approximately one per mile. These test points are either a valve, high pressure regulator, Coupon Test Station (CTS) or an ETS. When five or more CTSs or ETSs are installed on a pipeline, it is considered a capital project. Note that this MAT also records test stations installed to monitor AC, as well as casings test stations, so long as they meet the capitalization criterion above.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to by installing test stations on PG&E's transmission pipeline also that this MAT also records test stations installed to monitor AC, as well as casings test stations, so long as they meet the capitalization.

MAT 3K9 – Electrical Interference DC – 49 CFR 192.473 requires each operator whose pipeline system is subjected to stray currents to have a continuing program to minimize the detrimental effects of DC Interference from foreign CP systems, mass transit systems, and other sources. Capital mitigation methods include upgrading rectifiers, installing new impressed current CP systems, replacing depleted impressed current anodes, and shielding pipeline from foreign operators. Note that drain anodes and galvanic CP systems are expense activities and should be recorded in MAT GJF.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to minimizing the detrimental effects of DC interference on the pipeline system.

MAT 3KA – AC Remediation – 49 CFR 192.479 481 requires that pipeline operators inspect exposed piping for AC at least once every 3 years. AC may occur when exposed pipeline interacts with moisture in the environment, degrading pipeline integrity. PHMSA enforcement guidance states that pipeline operators must mitigate AC before the next scheduled inspection. PG&E capitalizes these mitigations when they involve recoating more than 100 continuous feet of piping.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to AC mitigation before next scheduled inspection.

MAT 3L1 – Drilling – All work required to drill wells or redrill (replace) wells, including installation and cementing of production tubing, gravel pack completion, tubing and packer installation, wellhead components and any ancillary or surface equipment required. Abandonment order would be established for removing existing well that is being redrilled or replaced.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to drill wells or redrill (replace) wells, including installation and cementing of production tubing, gravel pack completion, tubing and packer installation, wellhead components and any ancillary or surface equipment required.

MAT 3L3 – WELL Reworks – All work required for gas storage well reworks, including installation of DHSVs, gravel pack, tubing and casing tubular, wellhead components, and replacing rework equipment.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to gas storage well reworks, including installation of DHSVs, gravel pack, tubing and casing tubular, wellhead components, and replacing rework equipment.

MAT 3L4 – WELL Repair and Replace – Equipment replacement not associated with well reworks, rework equipment and DHSVs, gravel pack, tubing and casing tubular, and wellhead components. Includes replacement of UHSV, well pipelines between wellheads and gas processing and compression station equipment, and sand inspection valves.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to replacement of UHSV, well pipelines between wellheads and gas processing and compression station equipment, and sand inspection valves.

MAT 3L5 – WELL Controls and Continuous Monitoring – Installation of monitoring and control devices such as equipment for annular monitoring, injection measurement and replacement of well controls, and valves for injection and withdrawal operation. Costs for overflow protection are included here.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Installation of monitoring and control devices such as equipment for annular monitoring, injection measurement and replacement of well controls.

MAT 44A – Stan Pac Capital – Includes capital cost of improving the safety and reliability of the StanPac transmission pipeline system. Examples of expenditures in this category include replacing high risk, high consequence pipeline segments and pressure regulating facilities identified by PG&E's Pipeline Risk Management Program. This also includes new business, WRO, valves and CP.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to improving the safety and reliability of the StanPac transmission pipeline system.

MAT 73A – Capacity for Load Growth – Install pipeline and related facilities to meet system capacity requirements driven by customer demand growth. Transmission capacity must provide sufficient gas to satisfy customer demands at design day conditions. Capacity constraints must be relieved by reinforcing the transmission system before the design day conditions occur.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to pipeline installation and related facilities to meet system capacity requirements driven by customer demand growth.

MAT 73B – Capacity Betterment – Increase capacity by up-sizing the diameter or length of a planned "like for like" pipeline replacement (as may occur with a safety related pipeline replacement project) to reduce the risk of having to perform costly incremental capacity projects in the future. Betterment of a project that had been planned for non-capacity purposes results in cost savings compared to the total costs of the "like-for-like" project plus the future incremental project. Costs to be captured in this MAT are for the incremental

capacity only; costs for the original project are to be captured in the original MWC/MAT.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to reducing the risk of having to perform costly incremental capacity projects in the future.

MAT 73D – Liquefied Natural Gas (LNG)/Compressed Natural Gas (CNG) for Capacity – Capital costs including, but not limited to LNG/CNG emission reduction equipment, trailers, vaporizers, some capital repair components, etc., whose primary design purpose is to support customer loads during capacity reductions.

This MAT relates to safety and/or reliability and/or maintenance as it involves LNG/CNG work related to support customer loads during capacity reductions.

MAT 75C – Routine Spend M&C Capital – Includes Routine M&C capital costs for the following work:

- Station Auxiliary M&C Projects: Includes wide assortment of capital projects
 within the M&C Asset Family that are typically unique occurrences and do
 not qualify for another M&C program. Examples of this type of work include
 retirements; gas cooling; Heating, Ventilation and Air Conditioning (HVAC)
 systems; fencing; meter buildings; gas racks; traffic barriers; etc.
- Station Valves and Actuators M&C Projects: Includes capital projects related to all valves, actuators, monitors & controllers within the station boundary and are not specifically addressed in a station rebuild project with the following exceptions;* Limitorque actuator replacements should be in MAT 764;* Bristol Controller replacements should be in MAT 761; * Becker upgrades and retrofits should be in MAT 766;* Any Inoperable valves or Hard to Operate Valves even the ones within station boundary that are not specifically addressed in a station rebuild project should be included in MAT 75D Valve replacement.
- Station Electric/Instr/Controls M&C Projects: Includes capital projects
 related to controls, transfer switches, grounding grids, batteries, SCADA
 RTUs, data capture and trending, electrical circuits, etc., that are not
 otherwise encompassed in specific M&C programs and any costs related to
 Electrical upgrades program.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to routine targeted component replacement and maintenance at measurement and control stations, such as repair of failed equipment and instrumentation and modifications to address equipment safety or performance issues.

MAT 75D – Valve Program – Capital costs for valve replacements of inoperable or hard to operate valves that are greater than two inches in diameter. It may also include valves that are replaced for class location changes; valves that are leaking; deactivated valves that are being removed; and removal or replacement of other reliability valves.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to valve replacements of inoperable or hard to operate valves that are greater than two inches in diameter.

MAT 75E – Vintage Pipe Replacement – Capital costs for replacement of pipe where vintage construction/fabrication threats interact with land movement. Vintage construction/fabrication threats include pipe that was installed using wrinkle bends, mechanical/compression couplings, miter bends and other non-standard fittings like orange peel reducers, chill ring welds, bell and spigot, pipe that was constructed with the acetylene girth welding process, and branch connections made with unsupported saddle connections.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to replacement of pipe where vintage construction/fabrication threats interact with land movement.

MAT 75H – Class Location – Costs for replacement of pipe due to class location change as identified by the Class Location Study Program.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to replacement of pipe due to class location change as identified by the Class Location Study Program.

MAT 75I – Valve Automation – Costs for Valve Automation projects, including three types of automation: (1) remote control automation of existing valves, (2) replacement or installation of new valve with remote control automation, and (3) upgrades to existing automated valves. This program is driven by NTSB recommendation P 11 27 from San Bruno and California Assembly Bill 56 and Senate Bill 216.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to remote control automation, replacement or installation of new automated valves, or upgrades to existing automated valves.

MAT 75J – Geo-Hazards Mitigations – Costs for mitigation of land movement sites which impinges upon PG&E pipelines and creates an elevated, short-term Geo-Hazard. These Geo-Hazards may be found as a result of continuing surveillance, aerial/ground patrol, and the Geo-Hazard studies Program.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to mitigation of land movement sites which impinge upon PG&E pipelines and create an elevated, short-term Geo-Hazard.

MAT 75K – Water and Levee Crossings – Costs for the Water and Levee Crossing Program. These costs include the capital mitigation required to reinforce or relocate pipeline at water and levee crossings. These mitigations are not limited to jurisdictional water and levee crossings.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to the capital mitigation required to reinforce or relocate pipeline at water and levee crossings.

MAT 75L – Fault Crossings – Costs for capital mitigation as a result of Fault Crossing Program studies.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to capital mitigation as a result of Fault Crossing Program studies.

MAT 75M – Shallow Pipe – Capital remediation options include replacement or relocation of the pipeline at an acceptable depth of cover in parallel, or along an alternate route and retirement of the shallow location and retirement of those shallow pipelines not necessary for operations.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to capital reformation options include replacement or relocation of the pipeline at an acceptable depth of cover in parallel.

MAT 75N – Hydrostatic Testing – Capital costs associated with the hydrotest program such as the purchase of capital equipment or an emergency replacement as required following a failed Hydrotest. This MAT also includes piggability improvements made specifically when driven by the requirements of a hydrotest project.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to the hydrotest program such as the purchase of capital equipment or an emergency replacement as required following a failed Hydrotest.

MAT 750 – Other Pipeline Safety and Reliability – Costs to replace pipe > 50 feet in length where there are pipeline safety or reliability issues, not captured by other MATs. Generally, these costs include pipe replacements required as a result of leaks, dig ins, corrosion Integrity Issues, overbuilds/encroachments, other pipeline safety/reliability issues, or retirements/deactivations.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to replace pipe > 50 feet in length where there are pipeline safety or reliability issues, not captured by other MATs.

MAT 75P – ILI Capital Repair – Capital repairs required as a result of an ILI assessment such as pipe replacements greater than 50 feet or coating greater than 100 feet, for example.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to repairs, such as pipe replacements greater or coating, required as a result of an ILI assessment.

MAT 75Q – Pipe Replacement – IM (In Lieu of Hydro) – Pipe replacements for the purpose of assessing pipeline identified by TIMP to be in compliance with 49 CFR Part 192, Subpart O in lieu of hydrostatic testing. This MAT includes pipe replacements that are >50 feet in length and are being replaced in lieu of hydrostatic testing to address an integrity threat, such as the manufacturing threat.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Pipe replacements for the purpose of assessing pipeline identified by TIMP.

MAT 75R – Non-IM Pipe Replacement In Lieu of Hydrotest – Costs for Non-IM replacements of pipe greater than 50 feet in length in lieu of Hydrotesting. This does not include Class Location change replacements. Use MAT 75H for Class Location change replacements.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to replacements of pipe greater than 50 feet in length in lieu of Hydrotesting.

MAT 75S – DA – Capital costs of repairs or replacements related to ICDA, ECDA, and SCCDA Phase 3 such as pipe replacements greater than 50 feet, coating greater than 100 feet, for example.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to repairs or replacements due to ICDA, ECDA, and SCCDA Phase 3 such as pipe replacements and coating.

MAT 75T – Exposed Pipe – Capital costs for mitigation and/or replacement of Exposed Pipe. Capital remediation options include: replacement or relocation of the pipeline at an acceptable depth of cover in parallel, or along an alternate route and retirement of the exposed location and retirement of those exposed pipelines not necessary for operations.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to mitigation and/or replacement of Exposed Pipe.

MAT 75U – Non-TIMP Strength Testing Capital – Capital costs for Non-TIMP strength testing sub-program which validates the integrity of gas pipelines by strength testing pipelines, including pipelines either (a) lacking a traceable, verifiable, and complete record or (b) needing MAOP reconfirmation.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to validating the integrity of gas pipelines by strength testing pipelines lacking a traceable, verifiable, and complete record or needing MAOP reconfirmation.

MAT 75V – TIMP Direct Exam Capital Recoat – Capital repair as a result of Direct Examination integrity assessments. Examples include, but are not limited to replacements in excess of 50 feet as a result of direct examination, recoats in excess of 100 feet, etc.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to repair from Direct Examination integrity assessments.

MAT 76F – ESD Upgrade – includes ESD upgrade costs at the GT C&P facilities for the following types of projects: (1) Installation of ultraviolet/infrared Fire detection and Gas detection sensors; and (2) Installation of local control panels, conduits & wiring, and any dedicated PLCs for ESD system.

This program relates to safety and/or reliability and/or maintenance as it involves work related to upgrades at the GT C&P facilities for installation of

ultraviolet/infrared Fire detection and Gas detection sensors and installation of local control panels.

MAT 76G – GT OPP – Includes: Installation of filters and separators at strategic locations within the system to reduce the likelihood of debris and liquids from entering the system and impacting pilot operated regulators and monitors; installation of secondary OPP devices at stations with pilot operated regulators and monitors. These additional devices may include slam shuts valves, adding monitor valves, relief valves or alternate technologies to prevent overpressure events from occurring; installation of pressure transmitters system wide for enhanced visibility; and removal or installation of additional MAOP separation valves.

This program relates to safety and/or reliability and/or maintenance as it involves work related to retrofitting/rebuilding simple stations, LVCRs and LVCMs with OPP modifications.

MAT 76M – GT SCADA Visibility – Install field instruments (e.g., RTUs) to enable SCADA for the GT Control Center. SCADA provides visibility into the GT&S system to support safe operation and emergency response. Includes software and equipment modifications related to the operation of the RTUs and SCADA terminals, such as telecommunications and SCADA host computer operations.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to installing field instruments (e.g., RTUs) to enable SCADA for the GT Control Center.

MAT 76N – Routine Spend C&P Capital – Includes Routine Spend C&P capital costs for the following work.

Station Auxiliary C&P Projects: Includes a wide assortment of projects
within the C&P Asset Family that are typically unique occurrences and do
not qualify for another C&P program, examples of this type of work include:
air compressors, dryers, pond liners, water systems, aqua tower piping, fire
water systems, reboilers, cooling towers, gas detection, Automated Meter
Reading equipment, seal contaminant filtration, oil heaters, generator
modifications, suction separation, davit arms, fuel gas line, building HVAC,
silencers, transfer pumps, methanol injection systems, containment pumps,
oxidizers, Nitrogen Oxides upgrades, equipment removal, road stabilization,

etc. and includes the costs for Upgrading Pleasant Creek Processing
Equipment.

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- Station Compression C&P Projects: Includes projects related to engineering, procurement, construction and installation of compressor systems that are not otherwise encompassed in specific C&P programs (Bethany K2, Los Medanos K1, Hinkley Retrofit, etc.);
- Station Electric/Instr/Controls C&P Projects: Includes projects related to MCCs, relays, control panels, batteries, wiring and conduits, data capture and trending, PLCs, lighting, conductors, electric buckets, ATS, switchgear, etc., that are not otherwise encompassed in specific C&P programs. Also includes costs for Santa Rosa Sub Station Rebuild project and costs for Electrical upgrades for compressor stations other than Hinkley/Topock; and
- Station Valves and Actuators C&P Projects: Includes all valves, actuators, monitors, and controllers not otherwise encompassed in specific C&P programs (Bristols, Limitorque, Beckers, etc.), and any valve related costs identified in MAT 76E.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to compression and processing facilities, such as for station auxiliary projects, station compression projects, station instrumentation projects and station valves/actuator projects.

MAT 76P – GT Electrical Upgrade Hinkley & Topock – Includes costs for upgrading the electrical equipment at Hinkley or Topock Compressor Stations. The electrical equipment targeted by this program is switch gear sections and MCC sections. These are located within station fences.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to upgrading the electrical equipment at Hinkley or Topock Compressor Stations.

MAT 76Q – ECA 1 – Capital work is performed to remediate design anomalies required for compliance at the GT stations. This MAT covers project costs related to replacement of equipment or other components as a result of ECA 1 work.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Capital work to refine design anomalies required for compliance at the GT stations.

MAT 76R – Compressor Unit Control Replacement – Includes costs for replacing compressor unit controls that are becoming obsolete. Each compressor unit is installed with a PLC that monitors and controls the operation of the compressor unit, ensuring safe and reliable operation. Project cost includes removal of the existing PLC and associated control equipment, installation of a new PLC and associated control panel, PLC programming, and system integration.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to replacing compressor unit controls that are becoming obsolete.

MAT 76S – ECA 2 – Includes work performed to enable the destructive/non-destructive examination of components installed at the GT stations. This MAT covers project costs related to replacement of equipment or other components as a result of ECA 2 work.

This program relates to safety and/or reliability and/or maintenance as it involves work related to enabling the destructive/non-destructive examination of components installed at the GT stations to remediate the lack of strength test records in lieu of other methods such as strength testing.

MAT 76T – Upgrade Station Controls – Includes costs for upgrading the station controls at the GT C&P facilities. Project cost includes removal of the existing control systems and associated control equipment, the installation of the new PLC based controllers, programming, additional computer, and terminal stations, and a rebuild of existing panels in the control room.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to upgrading the station controls at the GT C&P facilities.

MAT 76V – Station Strength Testing – Capital work performed to enable the strength testing of components installed at the GT stations. This MAT covers project costs related to replacement of equipment or other components as a result of station strength testing.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to the strength testing of the GT stations.

MAT 76X – Compressor Replacements – Includes costs for compressor unit replacements at the GT compressor stations. Projects are specifically identified in the Compressor Replacement Study. Includes project costs such as: (1) Burney K 2 Compressor replacement – includes replacement of Burney

K-2 unit GE LM 1500 and relevant control systems; and (2) Future compressor replacements—identified from Compressor Replacement Study.

This program relates to safety and/or reliability and/or maintenance as it involves work related to compressor unit replacements/overhauls/retirements at the GT compressor stations.

MAT 76Z – Physical Security – Includes costs for Physical Security capital projects for GT C&P and M&C Facilities for stations that are identified as critical facilities as determined by Corporate Security study and includes the following projects: (1) Specific security enhancements projects such as utilizing ballistic protection around critical components such as compressor stations and tanks; (2) Improving protection of exposed transmission pipe, valves by adding anti climbing or concrete barriers; and (3) Security enhancements related to communication systems such as adding visual and audible alarm annunciations, upgrading existing security technology to include video analytics etc.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to the implementation of physical security measures at critical C&P and M&C Facilities as required by the TSA guidelines.

MAT 762 – Gill Ranch Capital – Capital funds contributed to or capital work performed to fulfill PG&E's obligations under its joint ownership agreement with Gill Ranch Storage LLC.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to capital work performed to fulfill PG&E's obligations under its joint ownership agreement with Gill Ranch Storage LLC.

MAT 763 – Perform Simple Station Rebuilds – Includes costs for simple station rebuild projects. The simple station rebuild projects are intended to address station equipment aging and obsolescence of M&C GT stations and Transmission LVC. Simple GT stations contain only self-contained and pilot operated pressure regulation and OPP equipment and simple operational metering devices. Stations may also include SCADA RTU's or electronic pressure recorder which monitor operating parameters. Simple transmission stations are located above or below ground and include odorant stations, meter stations, custody transfer stations and dehydrator systems. The project scope includes a complete rebuild of the station (above and below ground) to ensure replacement of older and obsolete equipment and piping, to upgrade

configuration to meet current system needs, and to address any outstanding issues with station O&M. Station rebuilds which are primarily addressing capacity or WRO should be assigned to those associated MATs.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to simple station rebuild projects which includes complete rebuild of the station (above and below ground) to ensure replacement of older and/or obsolete equipment and piping, to upgrade configuration to meet current system needs, and to address any outstanding issues with station O&M.

MAT 764 – Perform Complex Station Rebuilds – Includes costs for complex station rebuild projects. The Complex station rebuild projects are intended to address station equipment aging and obsolescence of M&C GT stations. Complex GT stations contain valves and equipment that is controller operated or controlled by either an algorithm in a PLC or RTU. Complex stations include Underground Gas Holder Stations and PLS. The project scope includes a complete rebuild of the station (above and below ground) to ensure replacement of older and obsolete equipment and piping, to upgrade configuration to meet current system needs, and to address any outstanding issues with station O&M. The project scope also includes costs to replace obsolete valve actuators manufactured by Limitorque currently installed throughout the GT system.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to complex station rebuild projects which includes complete rebuild of the station (above and below ground) to ensure replacement of older and/or obsolete equipment and piping, to upgrade configuration to meet current system needs, and to address any outstanding issues with station O&M.

MAT 765 – Perform Transmission Terminal Upgrades – Includes cost for upgrades and rebuilding GT terminals. Terminal upgrade program is designed to upgrade or rebuild the three existing transmission terminals—Milpitas, Brentwood, and Antioch. The upgrade work includes buildings, electrical and all associated equipment at the terminals such as piping, manual valves, control valves, metering equipment, pipe supports, SCADA equipment etc. within the station block valves as warranted and not otherwise encompassed in specific M&C programs (Bristols, Beckers, etc.).

This program relates to safety and/or reliability and/or maintenance as it involves work related to upgrading's and rebuilding GT terminals to address aging and obsolescence.

MAT 766 – Becker System Upgrades – Includes costs for Becker System Upgrades and retrofits. The purpose of retrofitting a Becker unit is to address identified safety and compliance deficiencies and eliminate the need to replace the entire cabinet.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to Becker System Upgrades and retrofits by identifying safety and compliance deficiencies and eliminating the need to replace the entire cabinet.

MAT 84C – Gas Gathering – Pipe Reliability/Safety – Safety or reliability work associated with gas gathering pipelines.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to safety or reliability work associated with gas gathering pipelines.

MAT 84D – Gas Gathering Divestiture – Work associated with the sale and/or retirement of pipe on the gas gathering system.

This MAT relates to safety and/or reliability and/or maintenance as it involves work related to sale and/or retirement of pipe on the gas gathering system.

MAT 98C – ILI Upgrade Pipeline – Making one time pipeline modifications which allow the smart pig to run unimpeded through the pipeline (e.g., removing elbows and other physical constraints and install of valves, pig launchers and receivers).

This program relates to safety and/or reliability and/or maintenance as it involves work related to pipeline modifications which allow the smart pig to run unimpeded through the pipeline.

P. GT&S Comparison by MAT for Non-Safety, Reliability, and Maintenance Work Tables

Q. GT&S Comparison by MAT for Non-Safety, Reliability, and Maintenance Work Tables

TABLE 2-11
2023 GRC CYCLE GAS DISTRIBUTION EXPENSE COMPARISON BY MAT FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

A B C1 C2 C3 C4 C5 C6 C7	C1 C2 C3 C4 C5 C6	C2 C3 C4 C5 C6	C3 C4 C5 C6	C4 C5 C6	C5 C6	Ce		C7		D	E	Н	g	Η	- 1	ſ
Line (O&M Expense Area Area Area Control Name MAT Name RAMP Risk Name Control Name	Functional MWC Name MAT MAT Name RAMP Risk Name	MWC Name MAT Name RAMP Risk Name	MWC Name MAT Name RAMP Risk Name	MAT Name RAMP Risk Name	RAMP Risk Name		RAMP Mitigation and/o Control Name	½	2023 GRC Testimony Reference	RAMP Roll- Program / up Project Life (Yes/No) (years)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
O&M Expense GT&S AB Misc Expense AB1 Support Non-SRM Total (Non-RAMP) Non-SRM Total (Non-RAMP)	GT&S AB Misc Expense AB1 Support Non-SRM Tdal (Non-RAMP)	Misc Expense AB1 Support Non-SRM Total (Non-RAMP)	AB1 Support Non-SRM Total (Non-RAMP)	Support Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)		Non-SRM Total (Non-RA	MP)	Ex 3, Ch 13	No	On-going	Annual	0.0	(8.3)	(8.3)	100.0%
O&M Expense GT&S AB Misc Expense AB7 Safety, Qual, & Contract Mgmt Non-SRM Total (Non-RAMP) Non-SRM Total (Non-RAMP)	GT&S AB Misc Expense AB7 Safety, Qual, & Contract Mgmt Non-SRM Total (Non-RAMP)	Misc Expense AB7 Safety, Qual, & Contract Mgmt Non-SRM Total (Non-RAMP)	Misc Expense AB7 Safety, Qual, & Contract Mgmt Non-SRM Total (Non-RAMP)	Safety, Qual, & Contract Mgmt Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)		Non-SRM Total (Non-R.	AMP)	Ex 3, Ch 13	S N	On-going	Annual	795.2	405.9	(389.3)	-49.0%
O&M Expense GT&S AB Misc Expense AB# Nxt assigned Non-SRM Tdai (Non-RAMP) Nxn-SRM Tdai (Non-RAMP)	GT&S AB Misc Expense AB# Not assigned Non-SRM Total (Non-RAMP)	Misc Expense AB# Not assigned Non-SRM Total (Non-RAMP)	Misc Expense AB# Not assigned Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)		Non-SRM Total (Non-F	SAMP)	Ex 3, Ch 13	<u>8</u>	On-going	Annual	19,267.4	10,315.6	(8,951.8)	-46.5%
O&M Expense GT&S AK Manage Environmental Oper AKA Haz Waste Mgmt Non-SRM Total (Non-RAMP) Non-SRM Total (Non-RAMP)	GT&S AK Manage Environmental Oper AKA Haz Waste Mgmt Non-SRM Total (Non-RAMP)	Manage Environmental Oper AKA Haz Waste Mgmt Non-SRM Total (Non-RAMP)	Manage Environmental Oper AKA Haz Waste Mgmt Non-SRM Total (Non-RAMP)	Haz Waste Mgmt Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)		Non-SRM Total (Nor	-RAMP)	Ex 3, Ch 13	No No	On-going	Annual	3,157.3	3,760.4	603.1	19.1%
O&M Expense GT&S CR Mnge Waste Disp & Transp CRA Hazard Waste Disp & Transp Non-SRM Tdial (Non-RAMP) Non-SRM Total (Non-RAMP)	GT&S CR Mrge Waste Disp & Transp CRA Hazard Waste Disp & Transp Non-SRM Total (Non-RAMP)	Mnge Waste Disp & Transp CRA Hazard Waste Disp & Transp Non-SRM Total (Non-RAMP)	Mnge Waste Disp & Transp CRA Hazard Waste Disp & Transp Non-SRM Total (Non-RAMP)	Hazard Waste Disp & Transp Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)		Non-SRM Total (No	n-RAMP)	Ex 3, Ch 13	No No	On-going	Annual	716.5	644.5	(72.0)	-10.1%
Q&M Expense GT&S CX GT Marketing/Sales/Strategy CXA GT&S Marketing/Sales/Strategy Non-SRM Total (Non-RAMP) Non-SRM Total (Non-RAMP)	CX GT Marketing/Sales/Strategy CXA GT&S Marketing/Sales/Stratgy Non-SRM Total (Non-RAMP)	GT Marketing/Sales/Strategy CXA GT&S Marketing/Sales/Stratgy Non-SRM Total (Non-RAMP)	GT Marketing/Sales/Strategy CXA GT&S Marketing/Sales/Stratgy Non-SRM Total (Non-RAMP)	GT&S Marketing/Sales/Stratgy Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)		Non-SRM Total (N	on-RAMP)	Ex 3, Ch 11	2	On-going	Annual	5,786.8	6,171.8	385.0	%2'9
O&M Expense GT&S DN Develop & Provide Trainrig DN2 Gas Qualifications Non-SRM Total Non-SRM Total	DN Develop & Provide Trainng DN2 Gas Qualifications Non-SRM Total	Develop & Provide Trainng DN2 Gas Qualifications Non-SRM Total	Develop & Provide Trainng DN2 Gas Qualifications Non-SRM Total	Gas Qualifications Non-SRM Total	Non-SRM Total		Non-SRM Total		Ex 3, Ch 13	No	On-going	Annual	1,931.8	567.8	(1,364.0)	-70.6%
O&M Expense GT&S DN Develop & Provide Training DNZ Gas Qualifications Distribution Main or Service Qualifications	Gas Qualifications DN Develop & Provide Training DN2 Gas Qualifications Distribution Main or Service	Develop & Provide Training DN2 Gas Qualifications Distribution Main or Service	Develop & Provide Training DN2 Gas Qualifications Distribution Main or Service	Loss of Containment on Gas Gas Qualifications Distribution Main or Service	Loss of Containment on Gas Distribution Main or Service		OCDM-C013 Tr Qualifications	aining, Gas	Ex 3, Ch 13	8	NA	ΝA	1,931.8	567.8	(1,364.0)	-70.6%
O&M Expense GT&S GZ R&D Non-Balancing Account GZA Gas R&D and Deployment Non-SRM Total Non-SRM Total	GT&S GZ R&D Non-Balancing Account GZA Gas R&D and Deployment Non-SRM Total	R&D Non-Balancing Account GZA Gas R&D and Deployment Non-SRM Total	GZA Gas R&D and Deployment Non-SRM Total	Gas R&D and Deployment Non-SRM Total	Non-SRM Total		Non-SRM Total		Ex 3, Ch 13	2	On-going	Annual	3,861.2	1,402.8	(2,458.4)	-63.7%
O&M Expense GT&S GZ R&D Non-Balanching Account GZA Gas R&D and Deployment Transmission Pipeline Deployment Deployment	GZ R&D Non-Balancing Account GZA Gas R&D and Deployment Transmission Pipeline	R&D Non-Balancing Account GZA Gas R&D and Deployment Transmission Pipeline	R&D Non-Balancing Account GZA Gas R&D and Deployment Transmission Pipeline	Loss of Containment on Gas Gas R&D and Deployment Transmission Pipeline	Loss of Containment on Gas Transmission Pipeline	on Gas	_OCTM-C003 G _€ Deployment	as R&D and	Ex 3, Ch 13	8	N/A	ΑŅ	3,861.2	1,402.8	(2,458.4)	-63.7%
O&M Expense GT&S JT GT Reliability & General Maint JTA Pipeline WRO Expense (Non-SRM Tdata (Non-RAMP) Non-SRM Total (Non-RAMP)	JT GT Reliability & General Maint JTA Pipeline WRO Expense Non-SRM Total (Non-RAMP)	GT Reliability & General Maint JTA Pipeline WRO Expense Non-SRM Total (Non-RAMP)	JTA Pipeline WRO Expense Non-SRM Total (Non-RAMP)	Pipeline WRO Expense Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)		Non-SRM Total (N	on-RAMP)	Ex 3, Ch 14	No	On-going	Annual	634.6	1,500.3	865.7	136.4%
O&M Expense GT&S JV Maintain IT Apps & Infra JVA ISvcs: Wrkpbe End User SW Ste Non-SRM Total (Non-RAMP) Non-SRM Total (Non-RAMP)	GT&S JV Maintain IT Apps & Infra JVA ISvcs: Wikpibe End User SW Ste Non-SRM Total (Non-RAMP)	Maintain IT Apps & Infra JVA ISvcs: Wrkpice End User SW Ste Non-SRM Total (Non-RAMP)	Maintain IT Apps & Infra JVA ISvcs: Wrkpice End User SW Ste Non-SRM Total (Non-RAMP)	ISvcs: Wrkpice End User SW Ste Non-SRM Total (Non-RAMP)			Non-SRM Total (N	on-RAMP)	Ex 3, Ch 12	8	On-going	Annual	2,346.1	2,200.8	(145.3)	-6.2%
O&M Expense GT&S JV Maintain IT Apps & Infra JVT ASkos: Applications Support Non-SRM Total (Non-RAMP) Non-SRM Total (Non-RAMP)	GT&S JV Maintain IT Apps & Infra JVT ASvcs: Applications Support Non-SRM Total (Non-RAMP)	Maintain IT Apps & Infra JVT ASvcs: Applications Support Non-SRM Total (Non-RAMP)	Maintain IT Apps & Infra JVT ASvcs: Applications Support Non-SRM Total (Non-RAMP)	ASvcs: Applications Support Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)		Non-SRM Total (N	lon-RAMP)	Ex 3, Ch 12	S	On-going	Annual	0.0	1,295.0	1,295.0	100.0%
O&M Expense GT&S JV Maintain IT Apps & Infra JV# Nxt assigned Non-SRM Total (Non-RAMP) Non-SRM Total (Non-RAMP)	GT&S JV Maintain IT Apps & Infra JV# Not assigned Non-SRM Total (Non-RAMP)	Maintain IT Apps & Infra JV# Not assigned Non-SRM Total (Non-RAMP)	Maintain IT Apps & Infra JV# Not assigned Non-SRM Total (Non-RAMP)	Not assigned Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)		Non-SRM Total (N	on-RAMP)	Ex 3, Ch 12	8	On-going	Annual	857.1	0.0	(857.1)	-100.0%
7100 71 100 110 110 110 110 110 110 110	(TMC and Victor MCO and Victor bounded to the Company of the Compa	CONTRACT TO THE PROOF THE	OMA G and A let T MG 2 and A	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	COMA CONTRACT AND CONTRACT		Con COM Total		9	1			000	1100		440

TABLE 2-12 2023 RSAR 2023 GRC CYCLE GAS DISTRIBUTION CAPITAL COMPARISON BY MAT FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

T	, (î								
	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	-87.3%	100.0%	100.0%	-11.9%	%0:001	%4'56-	100.0%	-49 4%
	Difference for 2023 (\$) (H-G)	(3,057.0)	892.0	1,542.0	(1,550.0)	457.0	(8,453.0)	846.0	(8 837 0)
	2023 Actual Costs	445.0	892.0	1,542.0	11,438.0	457.0	405.0	846.0	9 044 0
	2023 Imputed Adopted Costs	3,502.0	0.0	0.0	12,988.0	0.0	8,858.0	0.0	17 881 0
	Program / Project Year	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual 17 881 0 9 044 0
	Program / Project Life (years)	On-going	On-going	On-going	On-going	On-going	On-going	On-going	On-coing
	RAMP Roll- Program / up Project Life (Yes/No) (years)	No	No	No	No	oN	oN	No	S
	2023 GRC Testimony Reference	Ex 3, Ch 13	Ex 3, Ch 13	Ex 3, Ch 13	Ex 3, Ch 12	NA	Ex 3, Ch 14	Ex 3, Ch 13	Ex 3 Ch 14
	RAMP Mitigation and/or Control Name	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Von-SRM Total (Non-RAMP)	Non-SBM Total (Non-BAMP)
	RAM P Risk Name	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	
	MAT Name	Tools	Environmental - Water Qual	Not assigned	ASvcs: Development	Not assigned	New Business	Office Facilities	Work Beguested by Others Non-SRM Total (Non-RAMP)
	MAT	05A	12A	21#	2FA	2F#	26A	78A	83A
	MWC Name	Tools & Equipment	Implement Environment Projects	Misc Capital	Build IT Apps & Infra	Build IT Apps & Infra	GT Customer Connects	Manage Buildings	83 GT WRO
	MWC	. 90	12	21	2F	2F	26	78	8
	Functional Area	GT&S	GT&S	GT&S	GT&S	GT&S	GT&S	GT&S	
	Type (O&M Expense or Capital)	Capital	Capital	Capital	Capital	Capital	Capital	Capital	Capital
	Line	1	2	3	4	2	9	7	00
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PACIFIC GAS AND ELECTRIC COMPANY SECTION 3 ELECTRIC DISTRIBUTION IMPUTED ADOPTED VS. RECORDED COMPARISON

PACIFIC GAS AND ELECTRIC COMPANY SECTION 3 ELECTRIC DISTRIBUTION IMPUTED ADOPTED VS. RECORDED COMPARISON

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PACIFIC GAS AND ELECTRIC COMPANY SECTION 3 ELECTRIC DISTRIBUTION IMPUTED ADOPTED VS. RECORDED COMPARISON

A. Introduction

This section includes the following information for the Electric Distribution functional area: a comparison of the total 2023 imputed adopted spend vs. the actual spend as well as the required data points per program as defined and required in Decision (D.) 23-11-069. This section also includes, for programs that are related to safety, reliability, or maintenance, the Major Work Category (MWC)/Maintenance Activity Type (MAT) Code descriptions, imputed adopted vs. actual cost comparison details and variance explanations. As required by D.19-04-020, the MWC/MAT Code descriptions include a discussion of how each program/project relates to safety, reliability, or maintenance.

D.23-11-069, Appendix A and B.

² Attachment 2, p. 9.

1 B. Comparison Summary Table

TABLE 3-1 2023 RSAR 2023 GRC CYCLE ELECTRIC DISTRIBUTION EXPENSE COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	E	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	Expense	Electric Distribution	Support and Emergency Preparedness and Response (EP&R)	AB	256,409.7	107,875.4	(148,534.3)	-57.9%
2	Expense	Electric Distribution	Read & Investigate Meters	AR	10,437.6	9,189.5	(1,248.1)	-12.0%
3	Expense	Electric Distribution	Emerging Technology	AT	2,185.1	0.0	(2,185.1)	-100.0%
4	Expense	Electric Distribution	Electric Distribution Operations Activities	BA	32,067.8	24,383.0	(7,684.8)	-24.0%
5	Expense	Electric Distribution	Electric Distribution Patrols and Inspections	BF	87,153.6	150,040.6	62,887.0	72.2%
6	Expense	Electric Distribution	Electric Distribution Routine Emergency	ВН	193,157.5	119,478.8	(73,678.7)	-38.1%
7	Expense	Electric Distribution	Maint Other Equipment	BK	1,975.3	2,001.3	26.0	1.3%
8	Expense	Electric Distribution	Customer Field Service Work	DD	24,314.6	31,780.9	7,466.3	30.7%
9	Expense	Electric Distribution	Manage Service Inquiries	EV	13,917.4	12,446.4	(1,471.0)	-10.6%
10	Expense	Electric Distribution	Electric Distribution Work Requested by Others (WRO)	EW	11,537.9	8,414.4	(3,123.6)	-27.1%
11	Expense	Electric Distribution	Change/Maintain Used Electric Meters	EY	8,478.8	9,001.3	522.5	6.2%
12	Expense	Electric Distribution	Electric Distribution Engineering and Planning	FZ	25,831.9	24,276.1	(1,555.8)	-6.0%
13	Expense	Electric Distribution	Poles – Intrusive Inspection/Test and Treat Program	GA	44,147.5	49,974.8	5,827.3	13.2%
14	Expense	Electric Distribution	Operate and Maintain Substations	GC	54,755.1	50,107.9	(4,647.2)	-8.5%
15	Expense	Electric Distribution	Electric Distribution Mapping	GE	19,272.2	24,668.4	5,396.1	28.0%
16	Expense	Electric Distribution	Electric Distribution Operational Technology	HG	23,207.3	18,540.5	(4,666.8)	-20.1%
17	Expense	Electric Distribution	Vegetation Management	HN	972,013.0	859,187.1	(112,825.9)	-11.6%
18	Expense	Electric Distribution	Distribution Automation & Protection Support	HX	3,118.3	2,693.8	(424.5)	-13.6%
19	Expense	Electric Distribution	Perform Gas Meter Maintenance	HY	687.1	250.6	(436.5)	-63.5%
20	Expense	Electric Distribution	Electric Distribution Major Emergency	IF	45,380.8	38,356.9	(7,023.9)	-15.5%
21	Expense	Electric Distribution	Various Balancing and Memorandum Accounts	IG	286,594.6	430,012.4	143,417.8	50.0%
22	Expense	Electric Distribution	Streetlight Support	IS	1,830.7	572.6	(1,258.1)	-68.7%
23	Expense	Electric Distribution	Collect Revenue	IU	1,589.9	1,088.0	(501.9)	-31.6%
24	Expense	Electric Distribution	Maintain IT Applications and Infrastructure	JV	8,419.0	4,430.2	(3,988.8)	-47.4%
25	Expense	Electric Distribution	Preventive Maintenance and Equipment Repair, OH	KA	40,243.1	89,175.9	48,932.8	121.6%
26	Expense	Electric Distribution	Preventive Maintenance and Equipment Repair, UG	KB	20,324.7	16,071.1	(4,253.6)	-20.9%
27	Expense	Electric Distribution	Preventive Maintenance and Equipment Repair, Network	KC	5,157.3	6,152.8	995.5	19.3%
28	Expense	Electric Distribution	Operational Management	OM	19,950.4	12,753.0	(7,197.4)	-36.1%
29	Expense	Electric Distribution	Operational Support	OS	62,153.6	2,903.9	(59,249.7)	-95.3%
30	Expense	Electric Distribution	Wildfire Mitigation	WF	0.0	68,487.3	68,487.3	100.0%
31	Expense	Electric Distribution	TOTAL		2,276,311.8	2,174,314.7	(101,997.1)	-4.5%

TABLE 3-2 2023 RSAR 2023 GRC CYCLE ELECTRIC DISTRIBUTION CAPITAL COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	E	F	G
Line No.	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	Capital	Electric Distribution	Tools & Equipment	05	7,607.7	9,412.7	1,804.9	23.7%
2	Capital	Electric Distribution	Electric Distribution Line and Equipment Capacity	06	143,580.3	155,262.0	11,681.7	8.1%
3	Capital	Electric Distribution	Electric Distribution Install/Replace OH Poles	07	362,645.3	360,984.4	(1,660.9)	-0.5%
4	Capital	Electric Distribution	Electric Distribution OH Asset Replacement	08	813,396.1	1,025,728.2	212,332.1	26.1%
5	Capital	Electric Distribution	Electric Distribution Automation and Protection	09	29,595.1	28,545.5	(1,049.6)	-3.5%
6	Capital	Electric Distribution	Electric Distribution WRO General	10	138,483.9	242,275.6	103,791.7	74.9%
7	Capital	Electric Distribution	Electric Distribution Customer Connections ^(a)	16	653,710.2	1,069,650.2	415,940.0	63.6%
8	Capital	Electric Distribution	Electric Distribution Routine Emergency	17	249,483.0	395,409.8	145,926.8	58.5%
9	Capital	Electric Distribution	Miscellaneous Capital and EP&R	21	28,274.9	33,687.6	5,412.7	19.1%
10	Capital	Electric Distribution	Install New Electric Meters	25	31,396.1	30,469.0	(927.2)	-3.0%
11	Capital	Electric Distribution	Electric Distribution Preventive Maintenance Overhead	2A	232,654.3	397,122.7	164,468.3	70.7%
			Electric Distribution Preventive					
12	Capital	Electric Distribution	Maintenance Underground	2B	66,474.2	86,589.4	20,115.2	30.3%
			Electric Distribution Preventive					
13	Capital	Electric Distribution	Maintenance Network	2C	14,135.3	16,064.2	1,928.9	13.6%
14	Capital	Electric Distribution	Build IT Applications & Infrastructure	2F	70,173.5	105,258.8	35,085.3	50.0%
15	Capital	Electric Distribution	Electric Distribution WRO Rule 20A	30	30,456.7	23,890.4	(6,566.3)	-21.6%
16	Capital	Electric Distribution	Electric Distribution WRO Rule 20A	3U	0.0	82,404.3	82,404.3	100.0%
17	Capital	Electric Distribution	Electric Distribution Substation Capacity	46	60,582.4	67,282.6	6,700.2	11.1%
18	Capital	Electric Distribution	Electric Distribution Substation Replace Other Equipment	48	100,521.3	57,355.9	(43,165.5)	-42.9%
19	Capital	Electric Distribution	Electric Distribution Circuit/Zone Reliability Program	49	88,299.8	62,065.6	(26,234.2)	-29.7%
20	Capital	Electric Distribution	Electric Distribution Substation Transformer Replacements	54	22,157.0	24,821.5	2,664.6	12.0%
21	Capital	Electric Distribution	Electric Distribution UG Asset Replacements	56	126,794.3	31,270.2	(95,524.1)	-75.3%
22	Capital	Electric Distribution	Electric Distribution Substation Safety and Security	58	8,586.7	3,410.1	(5,176.5)	-60.3%
23	Capital	Electric Distribution	Electric Distribution Substation Emergency Replacements	59	85,866.8	172,615.2	86,748.4	101.0%
24	Capital	Electric Distribution	EO Control Center Facility and Operational Technology	63	118,519.2	124,367.7	5,848.5	4.9%
25	 	Electric Distribution	Electric Distribution Major Emergency	95			· · · · · · · · · · · · · · · · · · ·	-
25 26	Capital	Electric Distribution		90	66,359.7	49,287.5	(17,072.2)	-25.7%
	Capital		provimately \$30 million recorded to the AB 8/		3,549,754.0	4,655,230.9	1,105,477.0	31.1%

⁽a) Amount for MWC 16 does not include approximately \$39 million recorded to the AB 841 Memorandum Account

1 C. Comparison by MAT Code for Safety, Reliability, and Maintenance Work Tables

TABLE 3-3
2023 RSAR
2023 GRC CYCLE ELECTRIC DISTRIBUTION EXPENSE COMPARISON BY MAT CODE FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)



TABLE 3-3
2023 GRC CYCLE ELECTRIC DISTRIBUTION EXPENSE COMPARISON BY MAT CODE FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)
(CONTINUED)

A	В	C1 C2	C3 C4	CS	C6	C7	D	E	F	G	н	1	J	к	L	М	N	0	Р	Q	R	S	т	U1	U2	U3	v	W
Line (OSM No Expense Capital)	Functional or Area	MWC MWC Nar	e MAT MAT N	me RAMP Risk Na	me RAMP Mitigation and/o Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	ifference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending F Variance Explanation E Required (Y/N)	Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units (#	ifference for 2023 of Units) (O-N) ((C	Unit Percent Variance or 2023 (%) O-N/IN*100)	Unit Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
		Read & Investigate		SRM Total (NO	N-																							
31 Expense	Electric Distributio	n AR Meters Emerging	N/A Not assigned	RAMP) SRM Total (NO	SRM Total (NON-RAMP)	Ex 4, Ch 8	No	On-going	Atmusi	10,437.6	9,189.5	(1,248.2)	-12.0%	NO		of Field Orders Not Unitized – There is no pplicable unit of measure for the	854,733	765,469	(89,264)	-10.4%	NO	Below variance threshold.	Biddow wistance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	NA. Its program's work is reprive and self-confirms in PGAET's 2023 CRC period. The purpose of this sergious is to furth Research and Development (RIQL) Energing Technology paties, perhambing, Anthrea research and deseignment (RIQL) serging to color that was easily patient MAT Code AT in the 2023 CRC were exceeded in MAT Code AT in the 2023 CRC were exceeded in MAT Code AT in the 2023 CRC was exceeded in MAT Code
32 Expense	Eactric Distributio	E Dist Operate	# Not as signed	(CAMP)	SHM TOTAL (NON-HAMP)	Ex 4, Ch 4.6	No.	On-going	Arnua	2,185.1		(2,185.1)	-100.0%	NO	No	ogram. ot Unitized – There is no pplicable unit of measure for ti	N/A	N/A	N/A	NA.	NO	Bellow variances threshold. Actual program expenses were below impuded regulatory values due to some work threcast in this MAT code being recorded to rustine and major emergency. In addition, weather conditions were below the conditions were advantaged to the condition would be additionable in 2023 and weather ruisface costs, the additional reportions to support EPSB, were	pot untrod.	On-Target	On-Target	Over	Proceeding as Planned	In program involves, making and will continue in PGRE's 2023 GRE parked. This program includes ladder neighbor work to support programs like EPSS MAT EAR* primarily covers labor couch for the contribution powers, who remenge and control the electric system distribution grid the contribution of the contribution system performing system configuration changes, such as switching and citized reconfiguration; and processing switching applications for work that enables
33 Expense	Electric Distributio	BA System	BAF Gen Operate	SRM Total	WLDFR-M020: Enhanced	Ex 4, Ch 7	No	On-going	Annual	27,814.9	18,147.8	(9,667.1)	-34.8%	NO	YES pri	rogram.	N/A	N/A	N/A	N/A	NO	lower than forecasted.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	construction to maintain and improve electric distribution system inhastructure.
34 Expense	Electric Distributio	Operate n BA System	BAF Geni Operate	Wildfre	Powerline Safety Settings	Ex 4, Ch 7	Yes	N/A	N/A	1,822.0	791.8	(1,030.1)	-56.5%	N/A	N/A N	WA.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A
35 Expense	Electric Distributio	Operate n BA System	BAF Geni Operate	SRM (NON-RA	MP) SRM (NON-RAMP)	Ex 4, Ch 4.6 Ex 4, Ch 7	Yes	N/A	N/A	25,992.9	17,356.0	(8,637.0)	-33.2%	N/A	N/A N	WA.	N/A	N/A	N/A	N/A	N/A	NA .	NA	N/A	N/A	N/A	N/A	NA
36 Expense	Electric Distributio	E Dist Operate n BA System	BAH FLISR Maintenanc	SRM Total	SRM Total	Ex 4, Ch 4.6 Ex 4, Ch 7	No	On-going	Annual	4,252.9	3,784.9	(468.0)	-11.0%	NO	No pr	ot Unitized – There is no opplicable unit of measure for th rogram.	is N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
97 Evente	Electric Distribution	E Dist Operate	RAH FI ISR Maintenann	Wirths	WLDFR-M020: Enhanced Presenting Safety Settlings	Ex 4, Ch 4.6 Ex 4. Ch 7	Ven	AVA.	AVA.	490.0	249.0	(444.6)	29.0%	N/A	N/A N	e/A	N/A	MA	N/A	N/A	NA	N/A	N/A	N/A	AVA	AVA	N/A	140
-		E Dist Operate			,	Ex 4. Ch 4.6				.38.0	2.20	(1.1.0)					.30											
38 Expense	Electric Distributio	n BA System E Dist Operate	BAH FLISR Maintenanc	SRM (NON-RA		Ex 4, Ch 7	Yes	N/A	N/A	3,763.3	3,436.9	(326.4)	-8.7%	N/A	N/A N/	IA ot Unitized – There is no pplicable unit of measure for ti	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
39 Expense	Electric Distributio	n BA System	# Not assigned	RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 4.6 Ex 4, Ch 7	No	On-going	Annual		2,450.3	2,450.3	100.0%	NO	NO pri	ppecable unit of measure for tr rogram.	N/A	N/A	N/A	N/A	NO	Below variance threshold. Actual program expenses were above imputed regulatory values due to this program not being	Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A
40 Expense	Electric Distributio	n BF Patrol/Insp	BF1 Dist. Aerial Inspec	SRM Total (NO RAMP)	N- SRM Total (NON-RAMP)	Ex 4, Ch 10	No	On-going	Annual	-	7,431.8	7,431.8	100.0%	NO	YES pri	iot Unitized – There is no pplicable unit of measure for th rogram.	is NA	N/A	N/A	N/A	NO	Actual program experience seeks above implicitly explained values due to this program not being program of the program of the	n Not unitized.	Over	Over	Over	Emergent	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing after to identify athermal conditions on PG&E assets through serial inspection.
41 Expense	Electric Distributio	E T&D n BF Patrol/Insp	BF3 UG BART Cable To	st/Insp SRM Total	SRM Total	Ex 4, Ch 10	No	On-going	Annual	59.0		(59.0)	-100.0%	NO	NO pri	ot Unitized – There is no opplicable unit of measure for the rogram.	is NA	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
42 Events	Electric Distribution	E T&D	BF3 UG BART Cable To	st/insp Underground	DUNGD-C001: Patrols	Ex 4, Ch 10	No	AVA.	AVA.	60.0		(50.0)	100.0%	N/A	N/A N/	γ Δ	N/A	NVA	N/A	N/A	NIA	N/A	N/A	N/A	AVA	AVA	N/A	140
43 Expense	Electric Distributio	E T&D n BF Patrol/Insp	BF4 UG Auto Xer Swol		SRM Total	Ex 4, Ch 10	No.	On-going	Annual	145.2	69.0	(76.3)	-52.5%	NO	NO pri	ot Unitized – There is no pplicable unit of measure for th ogram.	is NA	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
44 Expense	Electric Distributio	E T&D n BF Patrol/Insp	BF4 UG Auto Xer Swol	Test/Insp Underground	DUNGD-0001: Patrols	Ex 4, Ch 10	No	N/A	N/A	145.2	69.0	(76.3)	-52.5%	N/A	N/A N/	IA.	N/A	N/A	N/A	N/A	N/A	NA.	NA	N/A	N/A	N/A	N/A	NA
45 Evento	Electric Distribution	E T&D	DEA OU Potest	ODM Total	ODM Total	Ev.4 (0.10	No	On enion	Armed	6 000 0	7612.2	2 557 0	50.6%	NO.	NO #	of Poles Patrolled	1 200 222	1 244 280	(21.040)	1.0%	NO.	Balous princes therehold	Selous unisono o flacedadd	On-Target	On-Target	On-Target	Describes on Rismont	140
43 (2)	Cacas Casacas	E T&D	DIA COTTAGO	3100 1000	DOVHD-C013: Patrols -	LX 4, GI 10		Cinguing	ALL SALES	3,000.0	7,012.0	2,301.0	35.0.0			OI FORE FREDRIC	1,330,233	1,344,200	(21,211)	-1.0%	NO.	Below variance threshold.	Below variance threshold.	Oirings	Oiringa	Cirriage	Proceeding as Planned	
46 Expense	Electric Distributio	n BF Patrol/Insp	BFA OH Patrol	Distribution Ow	rhead Distribution Overhead	Ex 4, Ch 10	No	N/A	N/A	5,056.3	7,613.3	2,557.0	50.6%	N/A	N/A #	of Poles Patrolled	1,366,233	1,344,289	(21,944)	-1.6%	N/A	NA .	N/A	N/A	N/A	N/A	N/A	N/A
47 Expense	Electric Distributio	n BF Patrol/Insp	BFA OH Patrol	Wildfre	WLDFR-C001: Patrols - Distribution Overhead	Ex 4, Ch 10	No	N/A	N/A	5,056.3	7,613.3	2,557.0	50.6%	N/A	N/A #	of Poles Patrolled	1,366,233	1,344,289	(21,944)	-1.6%	N/A	NA .	NA	N/A	N/A	NA	N/A	N/A
48 Expense	Electric Distributio	E T&D n BF Patrol/Insp	BFB OH Insp	SRM Total	SRM Total	Ex 4, Ch 10	No	On-going	Annual	53,673.6	65,428.3	11,754.7	21.9%	YES	YES #	of Poles Inspected	508,807	550,762	41,955	8.2%	NO	Actual program expenses were abone impacted regulatory values due to new inspection cottent and the implementation of hyber impaction sequencies in HETD. PAGE consulted approximately 42.000 more inspections than were adopted in the 2023 GRC, driving the increase in costs abone impacted adopted in addition, the 2023 GRC Primi Decision reduced PGRETs forecast for Field Safety Reassessments that PGRET completed in connection with this program.	Below variance threshold.	Over	Ower	Over	Proceeding as Planned	This program's work is ongoing and will continue in PGBE's 2023 GRC period. The purpose of this program is a continuing effort to identify abnormal conditions on PGBE assets. See cost verlance explanation for additional datalis.
49 Expense	Electric Distributio	E T&D n BF Patrol/Insp	BFB OH Insp	Distribution Ow	DOVHD-0005: Inspections rhead Distribution Overhead	s - Ex 4, Ch 10	No	N/A	N/A	53,673.6	65,428.3	11,754.7	21.9%	N/A	N/A #	of Poles Inspected	508,807	550,762	41,955	8.2%	N/A	NA.	N/A	N/A	N/A	N/A	N/A	NA
50 5	Floritie Dietak **	E T&D	BER OH has	NATION	WLDFR-C01A: Inspections Distribution Overhead	s - Ex 4, Ch 10	l pan	N/A	N/A	59 679 0	pc 470 3	11 754 7	21.9%	N/A	N/A	of Poles Insperant	509 907	550 760	41,955	8.2%	N/A	N/A	N/A	MA	, NA	AVA	p.i.a	N/A
SS Expense	Lacury Dambillo	E T&D	onmp	Wilding	Commont Owners	CA 7, US 10	-		N/A	53,673.6	JO,420.3	11,134.7	41.00	1910	No.	of Poles Inspected of Unitized – There is no opplicable unit of measure for the	500,00/	5.0,762	71,600	***	***	***		N/A	NA.	NA.	N/A	
51 Expense	Electric Distributio	n BF Patrol/Insp	BFC OH Insp Infrared	SRM Total	SRM Total DOVHD-0006: Infrared Inspections -Distribution	Ex 4, Ch 10	No	On-going .	Annual	2,834.0	20.9	(2,813.0)	-99.3%	NO	NO pr	rogram.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
52 Expense	Electric Distributio	n BF Patrol/Insp	BFC OH Insp Infrared	Distribution Ow	Inspections - Distribution Overhead WLDFR-C01B: Infrared	Ex 4, Ch 10	No	N/A	N/A	2,834.0	20.9	(2,813.0)	-99.3%	N/A	N/A N/	VA.	NA	N/A	N/A	N/A	N/A	N/A	WA	N/A	N/A	N/A	N/A	NA
53 Expense	Electric Distributio	E T&D Patrol/Insp	BFC OH Insp Infrared	Wildfre	Inspections - Distribution Overhead	Ex 4, Ch 10	No	N/A	N/A	2,834.0	20.9	(2,813.0)	-99.3%	N/A	N/A N/	/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
54 Expense	Electric Distributio	E T&D n BF Patrol/Insp	BFD UG Patrol	SRM Total	SRM Total	Ex 4, Ch 10	No	On-going	Annual	2,681.1	3,142.4	461.4	17.2%	NO	NO #	of Enclosures Patrolled	270,158	268,305	(1,853)	-0.7%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
55 Expense	Electric Distribution	E T&D BF Patrol/Inso	BFD UG Patrol	Underground	DUNGD-0001: Patrols	Ex 4, Ch 10	No.	N/A	N/A	2.681.1	3.142.4	461.4	17.2%	N/A	N/A #	of Enclosures Patrolled	270.15R	268.305	(1,853)	-0.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
56 Expense	Electric Distributio	E T&D n BF Patrol/Insp	BFE UG Insp Infrared	SRM Total	SRM Total	Ex 4, Ch 10	No	On-going	Annual	14,545.4	16,029.2	1,483.7	10.2%	NO	NO #	of Enclosures Inspected	134,979	148,998	14,019	10.4%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A.
57 Expense	Electric Distributio	E T&D n BF Patrol/Insp	BFE UG Insp Infrared	Underground	DUNGD-C001: Patrols	Ex 4, Ch 10	No	N/A	N/A	14,545.4	16,029.2	1,483.7	10.2%	N/A	N/A #	of Enclosures Inspected	134,979	148,998	14,019	10.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
58 Expense	Electric Distributio	E T&D n BF Patrol/Insp	BFF UG Manhole Insp.	SRM Total (NO	N- SRM Total (NON-RAMP)	Ex 4, Ch 10	No	On-going	Annual	506.7		(506.7)	-100.0%	NO	NO #	of Manholes/Vaults inspected	1,546		(1,546)	-100.0%	YES	Below variance threshold.	Actual program units were below imputed units due to prioritization to other work in MWC E	F. On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PGBE's 2023 GRC period. The purpose of this program is to inspect manifolds. Note that manifolds are also inspected as part of CO 165 underground inspections program. It is not known at this time if this will continue to be a lower priority.
59 Expense	Electric Distributio	E T&D n BF Patrol/Insp	BFG OH Equip Test	SRM Total (NO RAMP)	N- SRM Total (NON-RAMP)	Ex 4, Ch 10	No	On-going	Annual	2,653.8	3,717.3	1,063.5	40.1%	NO	NO #	of Equipment Inspections	25,576	24,130	(1,446)	-5.7%	NO	Below variance threshold.	Below variance threshold:	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
		E T&D													ap	ot Unitized – There is no pplicable unit of measure for th	is											
60 Expense	Electric Distributio	n BF Patrol/Insp	BFH Inspection Projects	SRM Total	SRM Total	Ex 4, Ch 10	No	On-going	Annual	4,832.5	6,470.0	1,637.5	33.9%	NO	NO pri	rogram.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A

																										T		
Α	В	C1 C2	C3 C4	CS	C6	C7	D	E	F	G	н	- 1	J Spending S	K Spending F	L Percentage	М	N	0 P		Q R	i.	S	т	U1	U2	U3	v	W
Line (O&M No Expense or Capital)	Functional Area	MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending S Percent Variance For 2023 (%) ((H-G)/G*100)	Spending F Variance cplanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Differi for 2 Actual Units (# of U	once Per 023 Vari Inits) for 20 N) ((O-N)	Unit Unit Varia Proent Varia Priance Explan 2023 (%) Requi IJ/N*100) (YII	ince lation ired N)	2023 Gost Variance Explanation	2023 Unit Verlance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
61 Expense	Electric Distribution	E T&D BF Patrol/Insp E	BFH Inspection Projects	Wildire	WLDFR-C01E: Inspections	Ex 4, Ch 10	No	N/A	N/A	4,832.5	6,470.0	1,637.5	33.9%	N/A	N/A N/A		N/A	N/A	N/A N	N/A N/	A N	VA	N/A	N/A	N/A	N/A	N/A	N/A
62 Evnerse	Electric Distribution	E T&D RF Patrol/Iron F	BFJ OH Patrol ORT Post Outage	s SRM Total	SRM Total	Ev.4 (0:10	No	Onemina	Annual	166.0	146.3	(19.7)	-11.9%	NO	Not Us applica	nitized – There is no able unit of measure for thi	N/A	N/A	N/A N	N/A NO		selow variance threshold.	Not unitzed	On-Target	On-Target	On-Target	Proceeding as Planned	NIA
		E T&D	BFJ OH Patrol ORT Post Outage		WLDFR-M020: Enhanced Powerline Safety Settings	Ex 4. Oh 10																						
63 Expense	Electric Distribution	E T&D					Yes	N/A	N/A		51.4	51.4	100.0%	NA	N/A N/A		NA.	N/A	N/A N	NA N	A	in and the second secon	N/A	N/A	N/A	NA NA	N/A	N/A
64 Expense	Electric Distribution	BF Patrol/Insp E	OH Patrol ORT Post Outage	SRM (NON-RAMP)	SRM (NON-RAMP)	Ex 4, Ch 10	Yes	N/A	N/A	166.0	94.8	(71.2)	-42.9%	N/A	N/A N/A		N/A	N/A	N/A N	N/A N/	A N	I/A citual program expenses were above imputed regulatory values due to the recorded costs in this	N/A	N/A	NA	N/A	N/A	NIA This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this
65 Expense	Electric Distribution	E T&D BF Patrol/Insp #	Not assigned	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 10	No	On-going	Annual		39,972.2	39,972.2	100.0%	YES	Not Ui applici YES progra	initized – There is no sable unit of measure for thi am.	N/A	N/A	N/A N	N/A NO	3 n	citual program expenses were above imputed regulatory values due to the recorded costs in this regiam were not broccast in the 2023 GPC. These increased expenses are associated with sedocount for the System respections (supplication) (CS) chains, formed to perform system spection QC audits and achieve the associated quality pass rate for HFTD areas.	Not unitized.	Over	Over	Over	Emergent	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is System Inspection OC, which was not brecast in the 2023 GRC. PG&E anticipates that System Inspection OC costs will continue to be incurred in this MAT for the remainder of the GRC cycle.
66 Expense	Electric Distribution	E Dist Routine BH Emergency N	N/A Not assigned	SRM Total	SRM Total	Ex 4, Ch 4.6 Ex 4, Ch 6	No	On-going	Annual	193,157.5	119,478.8	(73,678.7)	-38.1%	YES	activiti infeasi	nitized – The variety of worl ies in this program makes i ible to identify a single unit asure.	i N/A	N/A	N/A N	N/A NO	A 00 P	citual program expenses were below imputed regulatory values due to favorable weather onditions in 2023. Costs for EPSS have variability according to the weather; centain costs like statics and PSA-Parto investigation includes helicopter) will increase or decrease related to eather events that require EPSS mitigation.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing eithat to patrol, including the use of helicopters, following an outage event and for restore customers to service as soon as possible. Program spend over the course of the remainder of the GRC cycle is dependent on weather conditions.
67 Expense	Electric Distribution	E Dist Routine	N/A Not assigned	Wildfre	WLDFR-M020: Enhanced Powerline Safety Settings	Ex 4, Ch 4.6 Ex 4, Ch 6	Yea	N/A	N/A	117.183.8	10.276.9	(106.906.9)	-91.2%	N/A	N/A N/A		N/A	N/A	N/A N	NA N	A N	VA	N/A	N/A	N/A	N/A	N/A	N/A
	Florida Postdouton	E Dist Routine		SRM (NON-RAMP)		Ex 4, Ch 4.6 Ex 4, Ch 6	y.,	hu4		75 000 7	400.004.0		40.7%										NA.	N/A				NA.
os Experie	Exeme Distribution	BH Emergency M	NO. MONGPHO	SRM Total (NON-	SRM (NON-RAMP)		165	NA	NA	15,913.7	109,201.9	33,282	43.7%	NA	NIA NIA		NA	NUA	NIA P	NA N		in .	vivil. And grogram units were above imputed program units in 2023 due to operational need. This is a demand-driven program for transformer repain-instruitationner supporting ministruance, new construction, emergency reparese, and refer program. Demand for this program is determined by logistical planners, to its dependent on the asabilishity of transformers from the manufacturativer or relationship-register transformer innertury. Frams-frams oppose are unavailable from the manufacturativer or Pacific Considerin repairing institutioning to meet the monand. In 2023 the mode of transformer repairinductionners was indept than the occase in the	rea	NA	NA	NOA	the program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this
69 Expense	Electric Distribution	BK Equip E	BKA Transformer Repr Emeryville	SRM Total (NON-	SRM Total (NON-RAMP)	Ex 4, Ch 11	No	On-going	Annual	1,975.3	1,597.6	(377.7)	-19.1%	NO	NO # of E	quipment Overhauls initized – There is no sable unit of measure for thi	1,023	1,603	580 56	6.7% YE	S B	elow variance threshold.	2023 GRC.	On-Target	On-Target	On-Target	Proceeding as Planned	program is to repair and refurbish transformers to meet demand.
70 Expense	Electric Distribution	BK Equip E	BKJ Equip Overhaul Emeryville	RAMP) SRM Total (NON-	SRM Total (NON-RAMP)	Ex 4, Ch 11	No	On-going	Annual	-	104.1	104.1	100.0%	NO	NO progra	am. initized – There is no sable unit of measure for thi	N/A	N/A	N/A N	N/A NO	э в	elow variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A
71 Expense	Electric Distribution	BK Equip E	BKK Equip Warranty Repr Emery	rulle RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 11	No	On-going	Annual	-	299.6	299.6	100.0%	NO	NO progra	im.	N/A	N/A	N/A N	N/A NO	О В	elow variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A This program's work is ongoing and will continue in PGAE's 2023 GRC period. The purpose of this program is a continuing effort to provide electric service turn-ons and shut-offs based on costomer.
72 Expense	Electric Distribution	DD Service E	DDC Electric Start/Stop	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 8	No	On-going	Annual	482.3	245.7	(236.6)	-49.1%	NO	NO # of C	commercial Turn-Ons/Offs initized – There is no	3,604	1,710 (1,894) -52	2.6% YE	8 B	selow variance threshold.	Actual program units were below imputed program units due to fewer customer-generated start/stop requests than forecast.	On-Target	On-Target	On-Target	Proceeding as Planned	program is a communing ethal to provide electric service turn-ans and shut-alts based on customer requests.
73 Expense	Electric Distribution	DD Service D	DDH Electric Trouble Cust Equipt	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 7	No	On-going	Annual	6,092.1	7,159.0	1,066.9	17.5%	NO	NO progra	sable unit of measure for thi am.	N/A	N/A	N/A N	N/A NO		selow variance threshold. citual program expenses were above imputed regulatory values due to increased customer-	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. This program provides
74 Expense	Electric Distribution	Provide Field DD Service D	DDJ Electric - Other	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 7	No	On-going	Annual	11,131.9	17,159.1	6,027.3	54.1%	NO	Not Us applica YES progra	nitized – There is no sable unit of measure for thi am.	N/A	N/A	N/A N	N/A NO	in in o	histand electrical service connections, especially for connects/seconnects such as solar PV statistics. Electric Main Panel upgrades, and electric vehicle connections. This program has ordinated to grow in recent years due to increased adoption of solar and EV.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	disconnectificonnects for customer-initized service activities such as solar panel connections. PGSE expects that this program will continue to have higher costs than forecasted over the course of the 2023 GRC cycle.
75 Expense	Electric Distribution	Provide Field DD Service A	Not assigned	SRM Total	SRM Total	Ex 4, Ch 7	No	On-going	Annual	6,608.3	7,217.1	608.7	9.2%	NO	Not Ui applico NO progra	initized – There is no sable unit of measure for thi irm.	NA	N/A	N/A N	N/A NO	о в	selow variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
76 Expense	Electric Distribution	Provide Field DD Service A	Not assigned	Wildfre	WLDFR-M020: Enhanced Powerline Safety Settings	Ex 4, Ch 7	Yes	N/A	N/A		258.3	258.3	100.0%	N/A	N/A N/A		N/A	N/A	N/A N	N/A N/	A N	VA	N/A	N/A	N/A	N/A	N/A	N/A
77 Expense	Electric Distribution	Provide Field DD Service A	Not assigned	SRM (NON-RAMP)	SRM (NON-RAMP)	Ex 4, Ch 7	Yes	N/A	N/A	6,608.3	6,958.7	350.4	5.3%	N/A	N/A N/A		N/A	N/A	N/A N	N/A N/	A N	VA.	N/A	N/A	N/A	N/A	N/A	N/A
78 Expense	Electric Distribution	Change/Maint Used Elec EY Meter N	NA Not assigned	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 8	No.	On-going	Annual	8,478.8	9,001.3	522.5	6.2%	NO	NO # of Fi	ield Orders	36,758	35,924	(834) -2	2.3% NO	о в	selow variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
		E Dist Planning &		SRM Total	2004 Tarel										Not Ui activiti infeasi	initized – The variety of worl ses in this program makes i ble to identify a single unit asure.	i t				A	citual program expenses were below imputed regulatory values due to engineering resource constraints that occurred in 2002, therefore less work was charged in 2002 in addition, the EPRS orgam (which was added to the 2002 GRC in POAES February 25, 2002 supplemental filing) remised some of the same contrained resource.					Proceeding as Planned	This program's work is origining and will confirm in PGAE's 2022 GRC parlod. This program provided Electric Distribution Plearing work and from the Engineering and Plearing Program which primarily Program provides support to open an experiment of the Program provides against the confirmation of Capacity Program provides support to opinit dependent programs schola as Electric Destribution Fallachille, Total Order of the Order of the Section of the Program School (Electric Section School), Commission of the Section School (Electric Section School), and Work at the Request of Chess (RMWRO), and EPSS. At this time, PGAE is not articipating that the authorized will be considered processing.
79 Expense	Electric Distribution	E Dist Planning &	Del Engineer		DOVHD-C008: Annual	EX4, OI II	NO.	Origing	ATTUE	22,543.5	17,070.7	(3,472.0)	-29.376	NU	TES OF THE	asure.	NA.	NIA.	NIA I	NA M		religiou autre la tre aetre constituend resolución.	NOC UNILLOSO.	On-large	On-rarge.	On-Target	Proceeding as Planted	tine universiphis was inconsisting contained.
80 Expense	Electric Distribution	FZ Ops Engineer F E Dist Planning &	FZA Genl Engineer	Distribution Overhead	Protection Reviews WLDFR-M020: Enhanced Powerline Safety Settings	Ex 4, Ch 17	Yes	N/A	N/A	16,913.6	12,145.3	(4,768.3)	-28.2%	N/A	N/A N/A		N/A	N/A	N/A N	N/A N/	A N	VA	N/A	N/A	N/A	N/A	N/A	N/A
81 Expense	Electric Distribution	FZ Ops Engineer F	FZA Genl Engineer	Wildfre	WLDFR-M07A: Situational Awareness and Forecastino	Ex 4, Ch 4.6	Yes	N/A	N/A	2,111.4	2,226.6	115.1	5.5%	N/A	N/A N/A		N/A	N/A	N/A N	N/A N/	A N	VA	N/A	N/A	NA	N/A	N/A	N/A
82 Expense	Electric Distribution	FZ Ops Engineer F	FZA Geni Engineer	Wildfre SRM Total (NON-	Initiatives - Line Sensors	Ex 4, Ch 4.3	Yes	N/A	N/A	3,518.4	2,698.8	(819.6)	-23.3%	N/A	N/A N/A	nitized – There is no sable unit of measure for thi	N/A	N/A	N/A N	N/A N/	A N	VA	N/A	N/A	NA	NA	N/A	N/A
83 Expense	Electric Distribution	FZ Ops Engineer F	FZB Voltage Complaints Invest	RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual	653.4	1,761.8	1,108.4	169.6%	NO	NO progra	em. initized – There is no	N/A	N/A	N/A N	N/A NO	э в	Allow variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
84 Expense	Electric Distribution	Planning & FZ Ops Engineer F E Dist	FZC Transformer Reports Manage		SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual	237.1	-	(237.1)	-100.0%	NO	NO progra Not Us activiti	able unit of measure for thi am. initized – The variety of work les in this program makes i		N/A	N/A N	N/A NO	э в	selow variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
85 Expense	Electric Distribution	Planning & FZ Ops Engineer F	FZD Field Work Plan	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Oh 17	No	On-going	Annual	859.1	283.3	(575.8)	-67.0%	NO		ible to identify a single unit asure.	N/A	N/A	N/A N	N/A NO	о в	selow variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. This program funds
86 Expense	Electric Distribution	E Dist Planning & FZ Ops Engineer F	FZE Troublemen Field Work	SRM Total	SRM Total	Ex 4, Ch 17	No	On-going	Annual	1,538.8	5,160.3	3,821.5	235.3%	NO	Not Useriviti infeasi NO of mea	initized – The variety of worlies in this program makes in lible to identify a single unit asure.	NA.	N/A	N/A N	N/A NO	D B	selow variance threshold.	Not unitized.	Over	Over	Over	Expanded	trockemen fest work, which includes implementing load transfers, control device setting charged-loadiness, and their specific fest incessignitism. The scope of their program expanded to charged-loadiness and their specific fest incessignitism. The scope of their specime expanded to think the scholar device of the scholar specimen to the 200 of the scholar scholar scholar specimen to the 200 of the scholar sc
87 Expense	Electric Distribution	E Dist Planning & FZ Ops Engineer F	FZE Troublemen Field Work	Wildfre	WLDFR-M020: Enhanced Powerline Safety Settings	Ex 4, Ch 4.3	Yes	N/A	N/A		2,617.6	2,617.6	100.0%	N/A	N/A N/A		NA	N/A	N/A N	N/A N/	A N	VA.	N/A	N/A	NA	N/A	N/A	NA .
88 Expense	Electric Distribution	E Dist Planning & FZ Ops Engineer F	FZE Troublemen Field Work	SRM (NON-RAMP)	SRM (NON-RAMP)	Ex 4, Ch 17	Yes	N/A	N/A	1,538.8	2,542.7	1,003.9	65.2%	N/A	N/A N/A		N/A	N/A	N/A N	N/A N/	A N	VA	N/A	N/A	N/A	N/A	N/A	N/A
89 Expense	Electric Distribution	E T&D Maint GA OH Poles C	GAA Pole Test & Treat	SRM Total	SRM Total	Ex 4, Ch 12	No	On-going .	Annual	21,689.8	34,048.8	12,379.0	57.1%	YES	YES # of in	spections	259,833	117,091 (14	2,742) -54	4.9% YE	A th m Ti in	chail program expenses were above imputed regulatory values due to an increase in set costs on the higher sist contract profession of 2023. A set above, in 2023 PGES profession are respectived as ever important settled to, under certain conditions, conduct both ground and aerial respections simultaneously, he costs for the place included in the 2023 unit cests. The pilot was successful and PGAE is cooperating the method into this program.	Actual program units were below imputed program units due to increase in unit costs, resulting in fewer program units being completed. In 2023 PG&E boused on higher risk circuits which tend to cost more than lower risk circuits.	Under	Under	Over	Proceeding as Planned	This program's work is organing and will continue in PGAE's 2023 GRC period. The purpose of this program is a continuing either to respect and these wood optics intraukely, to ensure the poises are in good condition and preser prematures failure in acconstance with Ordis. During the 2023 GRC cycle PGAE expects to continue to purform fewer units due to an increase in unit coots.
90 Expense	Electric Distribution	E T&D Maint GA OH Poles G	SAA Pole Test & Treat	Distribution Overhead	DOVHD-C011: Pole Programs	Ex 4, Ch 12	No	N/A	N/A	21,669.8	34,048.8	12,379.0	57.1%	N/A	N/A # of in	spections	259,833	117,091 (14	2,742) -54	4.9% N	A N	VA.	N/A	N/A	N/A	N/A	N/A	NIA

TABLE 3-3
2023 GRC CYCLE ELECTRIC DISTRIBUTION EXPENSE COMPARISON BY MAT CODE FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)
(CONTINUED)

A		B C	1 C2 C3	C4	CS	08	C7 D	E	F	G H	1	Ј К	L	М	N	0 P	Q	R	8	т	U1	U2	U3	v	w
Line (O&I No Expens Capit	a Fund e or A	tional MW	VC MWC Name MAT	T MAT Name	RAMP Risk Name	RAMP Mitigation and/o Control Name	r 2023 GRC RAMP Testimony Roll-up Reference (Yes/No	Program / Project Life (years)	Program / Project Year	2023 2023 Imputed Actual Adopted Costs	Difference for 2023 Var (5) for 2 (H-G) ((H-G	nding Spending Variance iance Explanation Required (YN)	Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units Different for 202: (# of Unit (O-N)	ce Percent 3 Variance for 2023 (% ((O-N)/N*100	Unit Variance Explanation (4) Required (9) (Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
91 Evnersu	Flortric D	istribution G4	E T&D Maint	Pole Test & Treat	Widfre	WLDFR-C12A: Wood Pole Inspection Program	Ex 4. Ch 12 No.	N/A	N/A	21,690.8 34.00	18.8 12.379.0 52	1% N/A	N/A	# of Inspertions	250 833	117 091 (142 3	742) .54.9%	N/A	NI.A	N/A	N/A	N/A	N/A	N/Δ	N/A
			E T&D Mains		SRM Total (NON-					5,,				Not Unitized – There is no applicable unit of measure for this											
92 Expense	Electric D	istribution GA	A OH Poles GAB	Pole Joint Util Maint Reimb	RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 12 No	On-going	Annual	- 17	77.5 177.5 10	0.0% NO	NO	program.	N/A	N/A N	WA N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this
93 Evnersu	Flectric D	istribution G4	E T&D Maint A OH Poles GAC	Pole Analyze Loading	SRM Total	SRM Total	Ex 4. Oh 12 No	Onemina	Annual	22.710.1 13.50	12.1 (9.208.0) 4	1.5% NO	VES	# of Poles Analyzed	200,000	162 050 (37.5	a50) -19.0%	NO.	Actual program expenses were below imputed regulatory values due to reprioritization within MWC GA in order to perform higher priority work, such as intrusive inspections in MAT GAA.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	program is so to release and analyze pole loading in order to prevent overhoaded poles and premature program is to neelees and analyze pole loading in order to prevent overhoaded poles and premature pole failure. Over the remainder of the ORC cycle, Polis Epirar to increase program spending and complete more units consistent with imputed adopted amounts.
						WLDFR-C12B: Pole Analys								,		(41)									
94 Expense	Electric D	istribution GA	E T&D Maint OH Poles GAC	Pole Analyze Loading	Wildfre	WLDFR-C12B: Pole Analyz Loading	Ex 4, Ch 12 No	N/A	N/A	22,710.1 13,50	12.1 (9,208.0) -4	1.5% N/A	N/A	# of Poles Analyzed	200,000	162,050 (37,9	-19.0%	N/A	NA.	N/A	N/A	NA	N/A	N/A	NA
95 Expense	Electric D	istribution GA	E T&D Maint A OH Poles GAD	Pole Reinforce	SRM Total	SRM Total	Ex 4, Ch 12 No	On-going	Annual	4,403.5 7,60	0.1 3,205.5 72	.8% NO	NO	# of Reinforcements	4,500	3,982 (5	518) -11.5%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
			E T&D Mains			DOVHD-C011: Pole																			
96 Expense	Electric D	stribution GA	A OH Poles GAD	Pole Reinforce	Distribution Overhead	Programs	Ex 4, Ch 12 No	N/A	N/A	4,403.5 7,60	9.1 3,205.5 72	.8% N/A	N/A	# of Reinforcements	4,500	3,982 (5	-11.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA .
97 Expense	Electric D	istribution GA	E T&D Maint A OH Poles GAD	Pole Reinforce	Wildfire	WLDFR-C12E: Pole Restoration Program	Ex 4, Ch 12 No	N/A	N/A	4,403.5 7,60	0.1 3,205.5 72	.8% N/A	N/A	# of Reinforcements	4,500	3,982 (5	518) -11.5%	N/A	N/A	N/A	N/A	N/A	NA	N/A	NA
			E T&D Maint				L							Not Unitized – There is no applicable unit of measure for this											
98 Expense	Electric D	stribution GA	A OH PORES GAF	Telco Engr Rew Non-Reimbur	and SHM local	SHM TOTAL	Ex 4, Ch 12 No	On-going	Annual	176.2	- (176.2) -10	0.0% NO	NO	program.	N/A	N/A N	WA N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
99 Expense	Electric D	istribution GA	E T&D Maint A OH Poles GAF	Telco Engr Rew Non-Reimbur	ed Distribution Overhead	DOVHD-C011: Pole Programs	Ex 4, Ch 12 No	N/A	N/A	176.2	- (176.2) -10	0.0% N/A	N/A	N/A	N/A	N/A N	WA N/A	N/A	N/A	N/A	N/A	NA	NA	N/A	N/A
100 Evrerse	Flectric D	istribution G4	E T&D Maint OH Poles GAH	Pole Joint Util Maint Non-Reim	SRM Total	SRM Total	Ex 4. Oh 12 No	Onemina	Annual	475.8 44	44 (314) 3	6% NO	NO.	Not Unitized – There is no applicable unit of measure for this erogram.	. NA	N/A N	era N/a	NO.	Below variance threshold.	Not unitized	On-Target	On-Target	On-Target	Proceeding as Planned	MΔ
						DOVHD-C011: Pole					(400)														
101 Expense	Electric D	istribution GA	E T&D Maint A OH Poles GAH	Pole Joint Util Maint Non-Reim	Distribution Overhead	Programs	Ex 4, Ch 12 No	N/A	N/A	475.8 44	4.4 (31.4) -6	.6% N/A	N/A	N/A	N/A	N/A N	WA N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A
102 Expense	Electric D	istribution GA	E T&D Maint A OH Poles #	Not assigned	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 12 No	On-going	Annual	(5,287.8) (5,80	(519.2) g	8% NO	NO	Not Unitized – There is no applicable unit of measure for this program.	N/A	N/A N	WA NA	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
			E Dist Subst											Not Unitized – The variety of work activities in this program makes i infeasible to identify a single unit											
103 Expense	Electric D	stribution GC	C O&M GC1	El DSub-Engrg_Maint Support	SRM Total	SRM Total	Ex 4, Ch 15 No	On-going	Annual	5,700.6 4,63	11.0 (1,069.6) -1	1.8% NO	NO	of measure.	N/A	N/A N	WA N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
104 Expense	Electric D	stribution GC	E Dist Subst O&M GC1	El DSub-Engrg_Maint Support	Substation	SBSTN-C008: Design Crite	ria Ex 4, Ch 15 Yes	N/A	N/A	544.3 2,28	1,744.9 32	0.6% N/A	N/A	N/A	N/A	N/A N	era N/A	N/A	N/A	N/A	N/A	NA	NA	N/A	NA
			E Dist Subst			SBSTN-C017: Proactive																			
105 Expense	Electric D	istribution GC	C O&M GC1	El DSub-Engrg_Maint Support	Substation	Maintenance	Ex 4, Ch 15 Yes	N/A	N/A	4,024.4 2,34	11.8 (1,682.6) -4	1.8% N/A	N/A	N/A	N/A	N/A N	WA N/A	N/A	NA .	N/A	N/A	N/A	NA	N/A	N/A
106 Expense	Electric D	istribution GC	E Dist Subst O&M GC1	El DSub-Engrg_Maint Support	SRM (NON-RAMP)	SRM (NON-RAMP)	Ex 4, Ch 15 Yes	N/A	N/A	1,131.9	- (1,131.9) -10	0.0% N/A	N/A	N/A	N/A	N/A N	e/A N/A	N/A	N/A	NIA	N/A	NA	NA	N/A	NA
			E Dist Subst				Ex 4, Ch 15 Ex 4, Ch 4.6 No							Not Unitized – The variety of work activities in this program makes in infeasible to identify a single unit					Actual program expenses were below imputed regulatory values due to reprioritizing and funding ownurs in our preventative substation programs.						This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is substation corrective work. PG&E anticipates completing this work as the need arises within the overall priority of the substation portible of work over the remainder of the course of the
107 Expense	Electric D	stribution GC	C ORM GC2	El DSub-Major Emerg_Corr Ma	INT SHM IOSAI	SRM Total		On-going	Annual	15,750.3 4,65	1.2 (11,099.1) -/	1.5% YES	YES	of measure.	N/A	NA P	WA NA	NO	overturis in our preventative substation programs.	Not unitized.	On-Target	On-Target	Under	Proceeding as Planned	GRC cycle.
108 Expense	Electric D	istribution GC	E Dist Subst C O&M GC2	El DSub-Major Emerg_Corr Ma	int Wildfire	WLDFR-M020: Enhanced Powerline Safety Settings	Ex 4, Ch 15 Ex 4, Ch 4.6 Yes	N/A	N/A	867.9 21	0.8 (657.1) -7	i.7% N/A	N/A	N/A	N/A	N/A N	WA N/A	N/A	N/A	N/A	N/A	NA	NA	N/A	N/A
100 Evenera	Electric D	intelluction Of	E Dist Subst	El DSub-Major Emerg. Corr Ma	int SRM (NON-RAMP)	SRM (NON-RAMP)	Ex 4, Ch 15 Ex 4, Ch 4.6 Yes	AVA.	N/A	14 892 4	10.4 (10.442.0) 2	1 296 N/A	N/A	N/A	N/A	M/A h	era brea	N/A	NATA.	NO.	NIA	AVA.	AVA.	N/A	MA
TO EXPENSE	Cacare D	unibara G	E Dist Subst		SRM Total (NON-	,		100		14,002.4	(10,442.0)	100	Nex	Not Unitized – There is no applicable unit of measure for this		ien.	100	IVO.			1800	int.	180	100	
110 Expense	Electric D	istribution GC	C O&M GCS	Dist Sub enhanced inspections	RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 15 No	On-going	Annual	- 1,08	1,083.5 10	0.0% NO	NO	applicable unit of measure for this program.	N/A	N/A N	e/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A
111 Expense	Electric D	istribution GC	E Dist Subst C O&M GCA	Dabn: TXfmr - prev maint.	SRM Total	SRM Total	Ex 4, Ch 15 No	On-going	Annual	1,146.7 1,51	9.2 372.5 30	.5% NO	NO.	# of Transformers Maintained	4,574	5,373	799 17.5%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
			E Dist Subst			SBSTN-C017: Proactive																			
112 Expense	Electric D	istribution GC	C O&M GCA	Dabn: TXfmr - prev maint.	Substation	Maintenance	Ex 4, Ch 15 No	N/A	N/A	1,148.7 1,51	9.2 372.5 33	.5% N/A	N/A	# of Transformers Maintained	4,574	5,373 7	799 17.5%	N/A	N/A	N/A Actual program units were below imputed program with due to higher extual unit.	N/A	NA	NA	N/A	N/A This program's work is consist and will continue in POSE's 2003 ODC control. The source of the s
113 Expense	Electric D	istribution GC	E Dist Subst O&M GCB	Dsbn: Breaker - prevent maint.	SRM Total	SRM Total	Ex 4, Ch 15 No	On-going	Annual	833.6 96	12.1 128.5 15	.4% NO	NO	# of Breakers Maintained	1,882	1,167 (7	715) -38.0%	YES	Below variance threshold.	Actual program units were below imputed program units due to higher actual unit costs than forecast. Higher unit costs are generally driven by labor, and resulted in fewer program units achieved.	Under	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The scope of work for this program is performed in accordance with GO174, which sets forth requirements for electric utility substation inspections and maintenance.
			E Dist Subst	Data Data		SBSTN-C017: Proactive Maintenance	5-1-0-15							a difference by			wo								
114 Expense	Electric D	sunbution GC	USM GCB	Dsbn: Breaker - prevent maint.	dubstation	nsuintenance	EX 4, Ch 15 No	N/A	N/A	833.6 96	Mr. 1 128.5 15	.470 N/A	N/A	e of Breakers Maintained	1,882	1,167 (7	-38.0%	N/A	(NA	NOA.	N/A	N/A	NA	N/A	PROA
115 Expense	Electric D	istribution GC	E Dist Subst O&M GCC	Dist Sub: Substation Test Dpt	SRM Total	SRM Total	Ex 4, Ch 15 No	On-going	Annual	1,599.4 3,60	7.2 2,007.8 12	5.5% NO	NO	# of Relays Maintained	1,423	1,364	(59) -4.1%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
116 Eyransa	Electric D	stribution Gr	E Dist Subst	Dist Sub: Substation Test Dpt	Substation	SBSTN-C017: Proactive Maintenance	Ex 4. Oh 15 No	N/A	N/A	1,599.4 3.60	17.2 2.007.8 12	5.5% N/A	N/A	# of Relays Maintained	1,423	1.364	(59) -4.1%	N/A	NA.	N/A	N/A	N/A	N/A	N/A	N/A
			E Dist Subst							3,00				,											
117 Expense	Electric D	istribution GC	C O&M GCD	Dsbn: Station Read_prev main	. SRM Total	SRM Total	Ex 4, Ch 15 No	On-going	Annual	3,311.0 3,25	54.1 (56.8) -1	7% NO	NO	# of Substation Inspections	6,850	6,671 (1	179) -2.6%	NO	Below variance threshold.	Selow variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
118 Expense	Electric D	istribution GC	E Dist Subst C O&M GCD	Dsbn: Station Read_prev main	. Substation	SBSTN-C017: Proactive Maintenance	Ex 4, Ch 15 No	N/A	N/A	3,311.0 3,25	54.1 (56.8) -1	.7% N/A	N/A	# of Substation Inspections	6,850	6,671 (1	179) -2.6%	N/A	N/A	NYA	N/A	NA	NA	N/A	NIA
			E Dist Subst			WLDFR-C003: Patrols and Inspections - Substation															T				
119 Expense	Electric D	istribution GC	C OSM GCD	Dsbn: Station Read_prev main	Wildfre	Inspections - Substation	Ex 4, Ch 15 No	N/A	N/A	3,311.0 3,25	4.1 (56.8) -1	7% N/A	N/A	# of Substation Inspections	6,850	6,671 (1	179) -2.6%	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A
120 Expense	Electric D	stribution GC	E Dist Subst C O&M GCE	Dabn: Gnri station_prev maint.	SRM Total	SRM Total	Ex 4, Ch 15 No	On-going	Annual	539.5 67	%.5 137.1 25	.4% NO	NO	# of Substation Preventative tasks	1,177	1,866	389 58.5%	YES	Below variance threshold.	Actual program units were above imputed program units in 2023 due to the bunding of work for executional efficiencies, which resulted in additional program units being pulled into scope in 2023 for a lower unit cost.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PQ8E's 2023 GRC period. The scope of work for this program is performed in accordance with GO174, which sets forth requirements for electric utility substation inspections and maintenance.

A	В	C1 C2	C3 C4	CS	C6	C7	D E	F	G	н	1	J I	L	. м	N	0	Р	Q	R	S	Т	Ut	U2	U3	v	w
Line (OSM No Expense o Capital)	Functional r Area	MWC MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Progr Roll-up Projec (Yes/No) (yea	am / ! Life Project Y	2023 n / Imputed lear Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Spen Percent Varia Variance for 2023 (%) (H-G)/G*100) (Y)	ding Perceince Varia sation Explan ired Requi	nage ance nation Unit Type sired N)	2023 Imputed Adopted Units	2023 Actual Units	Difference for 2023 (# of Units) (O-N)	Unit Percent Variance for 2023 (%) ((O-N)/N*100)	Unit Variance Explanation Required (Y/N)	3023 Cost Variance Explanation	2023 Unit Verlance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
121 Evrense	Flortric Distribution	E Dist Subst	GCE Dabr: Gnf station prev maint.	Substation	SBSTN-C017: Proactive Maintenance	Ex 4. Oh 15	No. NO.	N/A	530	5 676	5 1971	25.4% N	A N	ra # of Substation Preventative	tasks 1 177	7 1.86	66 689	58.5%	N/A	N/A	N/Δ	N/A	N/A	N/A	N/A	N/A
121 Expense	Electric Distribution	E Dist Subst	GCF Dsbn: Batteries - prev maint.	SRM Total	SRM Total	Ex 4, Ch 15	No On-g	ning Annua	539.	9 456:	1 (72.8)	-13.8% N	D N	# of Batteries Maintained	1,236	9 1,30	06 67	5.4%	NO	Below variance threshold.	Selow variance three hold.	On-Target	On-Target	On-Target	Proceeding as Planned	NA.
		E Dist Subst	GCF Dsbn: Batteries - prev maint.	0.000	SBSTN-C017: Proactive	Ex 4. Oh 15							.	A Dames - Market												
123 Expense	Electric Distribution	E Dist Subst	OCP DISCREDING - prev man.	Substation	Mariananoe	EX4, UI IS	No No	NA.	528.	9 456.	1 (72.8)	-13.8% N	A N	Not Unitized – There is no applicable unit of measure f	1,235	9 1,30	06 67	5.4%	NA	NA	N/A	N/A	NA.	NA.	N/A	NA
124 Expense	Electric Distribution	GC O&M	GCG Vegetation Management	SRM Total	SRM Total	Ex 4, Ch 15	No On-g	ing Annua	10,476.	6 8,039.1	8 (2,436.8)	-23.3% N	O N	O program.	N/A	A NO	IA N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA .
125 Expense	Electric Distribution	GC O&M	GCG Vegetation Management	Substation	SBSTN-C021: Vegetation Management	Ex 4, Ch 15	No N/	N/A	10,476.	6 8,039.1	8 (2,436.8)	-23.3% N	A N	A N/A	N/A	A N	I/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
126 Expense	Electric Distribution	E Dist Subst GC O&M	GCG Vegetation Management	Wildfre	WLDFR-C006: Vegetation Management - Substation	Ex 4, Ch 15	No N/	N/A	10,476.	6 8,039.1	8 (2,436.8)	-23.3% N	A N	(A N/A	N/A	A NO	IA NA	N/A	N/A	NA.	N/A	N/A	NA	N/A	N/A	N/A
		E Dist Subst												Not Unitized – The variety or activities in this program ma infeasible to identify a single	f work kes it unit											
127 Expense	Electric Distribution	GC O&M E Dist Subst	GCH Building Maintenance GCH Building Maintenance	SRM Total	SRM Total SBSTN-C017: Proactive Maintenance	Ex 4, Ch 15	No On-g	ing Annua	1,101.	2 3,638.9	9 2,537.8	230.5% N	A N	of measure.	N/A	A N	IA NIA	N/A	NO N/A	Balow variance threshold.	Not unitzed.	On-Target	On-Target N/A	On-Target N/A	Proceeding as Planned N/A	NIA.
129 Expense	Electric Distribution	E Dist Subst GC O&M	GCI Dsbn: Switches_prevent maint.	SRM Total	SRM Total	Ex 4, Ch 15	No On-g	ing Annua	106.	8 152	7 45.9	43.0% N	D N	# of Switches Maintained	112	2 7	70 (42)	-37.5%	YES	Below variance threshold.	Actual program units were below imputed program units due to higher actual unit costs than forecast. Higher unit costs are generally driven by labor, and resulted in flewer program units achieved.	Under	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The scope of work for this program is performed in accordance with GO174, which sets forth requirements for electic utility substation inspections and maintenance.
		E Dist Subst			SBSTN-C017: Proactive																					
130 Expense	Electric Distribution	GC O&M	GCI District Switches prevent maint.	Substation	Maintenance	Ex 4, Ch 15	No Ni	N/A	106.	8 152.	7 45.9	43.0% N	A N	A # of Switches Maintained	112	2 7	70 (42)	-37.5%	N/A	NA .	NIA Actual program units were above imputed program units in 2023 due to the bundling of work for executional efficiencies, which resulted in additional program units being pulled into scope in 2023 for a lower unit cost.	N/A	N/A	N/A	N/A	NIA This program's work is ongoing and will continue in PG&E's 2023 GRC period. The scope of work for
131 Expense	Electric Distribution	GC O&M	GCJ Dist Sub: Corrective (T80)	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 15	No On-gr	ing Annua	10,081.	0 13,311.	7 3,230.7	32.0% N	D N	ø of Substation Corrective to	usks 4,727	7 8,63	31 3,904	82.6%	YES	Below variance threshold.		On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PO&E's 2023 GRC period. The scope of work for this program is performed in accordance with OO174, which sets forth requirements for electric utility substation inspections and maintenance.
132 Expense	Electric Distribution	GC O&M	GCM Breaker Mechanism Services	SRM Total	SRM Total	Ex 4, Ch 15	No On-g	ing Annua	1,588.	8 2,527.	6 938.8	59.1% N	D N	0 # of Mechanism Services	710	0 84	44 134	18.9%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	NIA
133 Expense	Electric Distribution	E Dist Subst GC O&M	GCM Breaker Mechanism Services	Substation	SBSTN-C017: Proactive Maintenance	Ex 4, Ch 15	No N/	N/A	1,588.	8 2,527.	6 938.8	59.1% N	A NO	A of Mechanism Services	710	0 84	44 134	18.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		E Dist Subst				Fv 4 (0) 15		. .										-60.3%			Actual program units were below imputed program units due to higher actual unit costs than forecast. Higher unit costs are generally driven by labor, and resulted in fewer program units					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The scope of work for this program is performed in accordance with GD174, which sets brith requirements for electric utility
134 Expense	Electric Distribution	GC D&M E Dist Subst	GCO Iriansformer Overhaus	SHM Total	SBSTN-C017: Proactive	EX 4, Ch 15	No Un-g	ang Annua	1,201.	6 824.	1 (467.5)	-36.2% N	, N.	9 of Mechanism Services	151	1 6	60 (91)	-80.3%	YES	Below variance threshold.	achieved.	Under	On-Target	On-Target	Proceeding as Planned	substation inspections and maintenance.
135 Expense	Electric Distribution	GC OSM	GCO Transformer Overhauls	Substation	Maintenance	Ex 4, Ch 15	No N/	N/A	1,291.	6 824.	1 (467.5)	-36.2% N	A N	A # of Mechanism Services	151	1 6	60 (91)	-80.3%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
136 Expense	Electric Distribution	GC O&M	CKSW MOAS Mechanism GCS Services	SRM Total	SRM Total	Ex 4, Ch 15	No On-g	ing Annua	1 214.	7 256.	4 41.7	19.4% N	D N	0 # of Overhauls	85	2	51 (31)	-37.8%	YES	Below variance threshold.	Actual program units were below imputed program units due to higher actual unit costs than forecast. Higher unit costs are generally driven by labor, and resulted in fewer program units achieved.	Under	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The scope of work for this program is performed in accordance with GC174, which sets forth requirements for electric utility substaction inspections and maintenance.
137 Expense	Electric Distribution	E Dist Subst GC O&M	CKSW MOAS Mechanism GCS Services	Substation	SBSTN-C017: Proactive Maintenance	Ex 4, Ch 15	No Ni	N/A	214.	7 256.	4 41.7	19.4% N	A N	(A # of Overhauls	80	2	51 (63)	-76.8%	N/A	NA.	N/A	N/A	N/A	N/A	N/A	N/A
138 Expense	Electric Distribution	E Dist Subst	GCV Breaker Overhauls	SRM Total	SRM Total	Ex 4, Ch 15	No On-g	ing Annua		2 105		397.9% N		O # of Overbooks			10 14	280.0%		Below variance threshold.	Actual program units were above imputed program units based on objective to ensure circuit preakers are operating as intended, resulting in more overhauls than forecast.	Ow	On-Target	On-Target	Demonstra or Diseased	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The scope of work for this program is performed in accordance with GO174, which sets forth requirements for electric utility substation inspections and maintenance.
130 EApenine	CHICATO DISCUSSION	E Dist Subst	CCV Distance Commence	Divisi Ioda	SBSTN-C017: Proactive	LX4, GI 13	no cing	any Ama		100.		331.370		o o o o o o o o o o o o o o o o o o o				20.0%	12.0	Control region of the radio	presents are operating as instituto, resouring it more overrises that needless.	Own	Orrage	Cirringe	Processing as Printing	and entered in the processor of the state of
139 Expense	Electric Distribution	gc O&M	GCV Breaker Overhauls	Substation	Maintenance	Ex 4, Ch 15	No N/	N/A	21.	2 105.:	3 84.2	397.9% N	A N	A # of Overhauls	-	5	19 14	280.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA .
140 Expense	Electric Distribution	GC O&M	GCW Dist Sub: Station Washes	SRM Total	SRM Total	Ex 4, Ch 15	No On-g	ing Annua	I 463.	3 410.	2 (53.1)	-11.5% N	O N	6 of Substation Preventative	tasks 430	0 4	158 28	6.5%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	NA.
141 Expense	Electric Distribution	GC O&M	GCW Dist Sub: Station Washes	Substation	SBSTN-C017: Proactive Maintenance	Ex 4, Ch 15	No No	N/A	463.	3 410.	2 (53.1)	-11.5% N	A N	A # of Substation Preventative	tasks 430	0 4	158 28	6.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
142 Expense	Electric Distribution	E Dist GE Mapping I	N/A Not assigned	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 20	No On-g	ing Armua	I 19,272.	2 24,668	4 5,396.1	28.0% N	D YE	Not Unitized – There is no applicable unit of measure f program.	or this	A. N	/A N/A	N/A	NO	Actual program exportes sent about imposée fingulatory valous due los (1) exportes to devolute our implament POLIVE Avaste Data Management Plan, dels management standards, todas analyse products, and data quality improvement projects, and (2) exportes from emergent programs created to improve wildle-enided data, devolute prified data and analysis products, an respont to widfile related data requirements including the Wildfile Safety Division GIS Data Standard.	d Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	This program's work is opping and will confirm in POLES 2023 CRC poted. The purpose of this program is 0.1 of journeys the Estelfic Asset Replayir including glosystemed elevance imaging of research, and connection of records into digital form. 2) immage data quality, 3) provides data access and integration, and of develope manyling tools in support of Estelfic Asset Management. POLES may continue to operat more than adopted in this program over the course of the CRIC cycle in owder to manage data certificat to Estelfic Copertions.
		Elec Trans Ops Engr &		SRM Total (NON-										Not Unitized – There is no applicable unit of measure f	w Min					Actual program expenses were below imputed regulatory values due to the availability of emerging technology capable of obtaining phase identification data necessary to support ADMS, eliminating the need to manually collect this data in in 2023.						The ADMS program is a one-time program, and is projected to be completed prior to the end of the 2003 GRC cycle. PG&E anticipates continuing to spand below imputed amounts for the remainder of the GRC cycle because the program involves project-based work that may have peaked in the GRC Test Year.
143 Expense	Electric Distribution	HG Rech Flans	HGC Advanced Dist Mgmt System Do	ev RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 21	No 10	8	17,229.	3 11,059.1	0 (6,170.3)	-35.8% N	O YE	Not Unitized – There is no	N/A	A NO	IA N/A	N/A	NO	the need to manually collect this data in in 2023.	Not unitized.	On-Target	On-Target	Under	Proceeding as Planned	Test Year.
144 Expense	Electric Distribution	Ops Engr & HG Tech	HGD Distribution Operational Tech	SRM Total	SRM Total	Ex 4, Ch 7	No On-g	ing Annua	5,978.	0 7,481.	5 1,503.5	25.2% N	D N	applicable unit of measure for program.	or this N/A	A N	IA NA	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA .
145 Expense	Electric Distribution	Elec Trans Ops Engr & HG Tech	HGD Distribution Operational Tech	Wildfre	WLDFR-M020: Enhanced Powerline Safety Settings	Ex 4, Ch 7	Yes Ni	A N/A	-	82.1	8 82.8	100.0% Ni	A NO	(A N/A	N/A	A NO	IA N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
146 Evrense	Flortric Distribution	Elec Trans Ops Engr & HG Tech	HGD Distribution Operational Tech	SRM (NON-RAMP)	SRM (NON-RAMP)	Fv 4 Oh 7	Yes N	N/A	5 978	0 7398	7 1420.6	23.8% N	A N	ra N/A	N/A	a N	VA NVA	N/A	N/A	N/A	N/Δ	N/A	N/A	N/A	N/A	N/A
		F Dist Tree			,															Actual program expenses were below imputed regulatory values due to the rescheduling of routine tree work following of the futurals of tree new and contract inspection workforces to facilitate						This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to perform excline tree work. Given the rescheduling that program in 2023, PG&E
147 Expense	Electric Distribution	E Dist Tree HN Trim Bal Acct I	N/A Not assigned	SRM Total	SRM Total	Ex 4, Ch 9	No On-g	ing Annua	972,013.	0 859,187.	1 (112,825.9)	-11.6% YE	S N	# of Veg Mgmt Trees	1,546,783	3 1,241,02	25 (305,758)	-19.8%	NO	tree work following of the furlough of tree crew and contract inspection workforces to facilitate contract changes. Pre-inspection was 100% completed at this time.	Below variance threshold.	Under	Under	Under	Rescheduled	program is to perform routine tree work. Given the rescheduling that occurred in 2023, PG&E articipates continuing to perform fewer units than adopted over the remainder of the GRC cycle.
148 Expense	Electric Distribution	E Dist Tree HN Trim Bal Acct I	N/A Not assigned	Distribution Overhead	DOVHD-C001: Vegetation Management - Distribution Overhead	Ex 4, Ch 9	No N/	N/A	972,013.	0 859,187.	1 (112,825.9)	-11.6% N	A N	IA NIA	N/A	A NO	IA NIA	N/A	N/A	N/A	WA	N/A	N/A	N/A	N/A	NA
149 Expense	Electric Distribution	E Dist Tree HN Trim Bal Acct I	N/A Not assigned	Wildfre	WLDFR-C004: Vegetation Management - Distribution Overhead	Ex 4, Ch 9	No N/	N/A	972,013.	0 859,187.	1 (112,825.9)	-11.6% N	A N	IA NIA	N/A	A N	IA NA	N/A	N/A	NA.	NA	N/A	N/A	N/A	N/A	NA.
150 Expense	Electric Distribution	E T&D Automation & HX Protection	N/A Not assigned	SRM Total	SRM Total	Ex 4, Ch 16	No On-g	ing Annua	3,118.	3 2,693.1	8 (424.5)	-13.6% N	D NO	Not Unitized – There is no applicable unit of measure to program.	or this	A NO	IA NIA	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
		E T&D Automation & HX Protection			DOVHD-0007: Supervisory Control and Data Acquisition	Ex 4, Ch 16																				
151 Expense	exectno Distribution	HX Protection E T&D Automation &	PROL Miningridd	Journal of Charles	Control and Data Acquisition WLDFR-M020: Enhanced	p. X 9, Uf 16	Yes Ni	N/A	3,118.	2,693.1	(424.5)	-13.6% Ni	N N	IA DIA	N/A	N/	IN N/A	N/A	N/A	(NA	NA .	N/A	N/A	N/A	N/A	N/A
152 Expense	Electric Distribution	HX Protection I Change/Maint	N/A Not assigned	Wildfre	Powerline Safety Settings	Ex 4, Ch 16	Yes N/	N/A	-	72.1	5 72.5	100.0% N	A N	IA NIA	N/A	A N	I/A N/A	N/A	N/A	N/A	N/A Actual program units were above imputed program units because of an increase in the need	N/A	N/A	NA	N/A	N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this
153 Expense	Electric Distribution	Used Gas HY Meters	N/A Not assigned	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 8	No On-g	ing Annua	687.	1 250.	6 (436.5)	-63.5% N	D N	O # of Field Orders	1,466	6 2,92	27 1,461	99.7%	YES	Below variance threshold.	recoust program unto were above imposse program read securate of an innecess in the mean to maintain or change used gas meters. This demand is from either 1) customer requests e.g., usage inquiries; or 2) automated system notification for resolution of a meter issue.	Over	On-Target	On-Target	Proceeding as Planned	irris program's work is algoring arm as continued in Public at 2025 order period. The purpose of insi- program is a continuing effort to provide gas meter maintenance, based on 1) customer-driven requests; and 2) automated system notifications for meter issue resolution.
154 Expense	Electric Distribution	E Dist Major IF Emergency	N/A N/A	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 6	No On-g	ing Annua	ı 45,380.	8 38,356.9	9 (7,023.9)	-15.5% N	D N	Not Unitized – There is no applicable unit of measure for program.	or this	A NO	IA NA	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A

TABLE 3-3
2023 GRC CYCLE ELECTRIC DISTRIBUTION EXPENSE COMPARISON BY MAT CODE FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)
(CONTINUED)

								_																		
-	A	B C1	C2 C3	C4	CS	CS	C7	D	E	F	G	н	1 4	K L	М	N	0	Р Q	R	s	ī	U1	U2	U3	v	w
Line No	Type (O&M Expense or Capital)	Functional MWC	MWC Name MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (S) Percent Variance for 2023 (%) (H-G) (H-G)/G*108)	Spending Variance Variance Explanation Required (Y/N) Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Dir Actual fi Units (#	Merence or 2023 Variance for 2023 ((O-N)) ((O-N)/N*100)	Unit Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
156	Expense I	Electric Distribution K3	Manage Var Bal Acct Processes IGI	Dead and Dying Trees	SRM Total	SRM Total	Ex 4, Ch 9	No	On-going	Annual	77,991.5	136,577.1	58,585.7 75.1%	YES YES	# of Veg Mgmt Trees	65,000	81,281	16,281 25.0%	YES	Added program supervisor were above imposed agridatory related due to in increase in their units completed and this average cost of these units. Volume of weak forecased due to it is inscribed with this previous year. Of all more soft was included due to include an in-ordinary in conditional whose program of the complete of the condition of	Actual programs units arear dones imposé program units because of Second Parled compréssion jusquestion autre tres word an agrociment yell 8 thousand 6400 jusques units avec liver tres de 1022. The memoring approximation yet 2 4 thousand 6400 jusques units avec liver parle and projected and applicant increases being row year privately desired by the charge in the inspection scope implemental in Col 2022. This acque of PGAST Second Parle program avec and projected projection, was quided to sile year this acque parle of policies projection scope that scope includes mitigation of trees with defects in addition to dead, giving, or evidence of deciral in health.	Over	On-Target	Over	Proceeding as Planned	This program's work is engoing and will continue in PCAET's 2023 GRC period. Buginning in October 2022, PCAET logan to delay the work while pre-inspection was completed. This program is schedulated to continue through 2028, and PCAET anticipates continuing to perform more units than adequate in the 2023 GRC.
198	-vnense	Flectric Distribution IG	Manage Var Bal Acct Processes IGI	Dead and Dying Trees	Distribution Charleson	DOVHD-C002: Vegetation Management - CEMA/Tree	n ie Fr 4 Ch 9	No	N/A	N/A	77.991.5	198 577 1	58.585.7 75.1%	N/A N/A	# of Veg Mgmt Trees	65.000	81 281	16 281 25 0%	N/A	N/A	N/Δ	N/A	N/A	N/A	N/A	N/A
			Manage Var Bal Acct	7,7		WLDFR-C007: Vegetation Management - CEMA/Tre-	n																			
157	Expense	Electric Distribution IG	Processes IGI Manage Var Bal Acct	Dead and Dying Trees Enhanced Vegetation	Wildfre	Mortality	Ex 4, Ch 9	No	N/A	N/A	77,991.5	136,577.1	58,585.7 75.1%	NA NA	≢ of Veg Mgmt Trees	65,000	81,281	16,281 25.0%	N/A	NA. Actual program reportes were down reported regulatory relate data to Charlot IT and it NACT (2.1 MeV (2.1	NA. Actual program with serve beine implied program with bestude the scripe of the Embrace Section Management (EAM) program has charged an 2021 to focus on the primary programs. If Pricosal This Inspection - Anading approximately 27 this section for primary programs. If Pricosal This Inspection - Anading separametry 27 this section for section of the section of the scripe of the spection of specializing 4 this section for section 15 this section of the section of section of the section of the section of the section of section of the section of section of the section of section of the section of the section of section of s	N/A	N/A	N/A	N/A	NA. This program's work is origining and will continue in PCAE's 2023 GRC partial. The Enhanced in register in the Residence of the program is as changed as the program controlled, well the scoop or the program is as changed as the program. To calling of Contact the Respection, 1000,700, The Removal Memory, and Wood of the program. To calling of Contact the Respection, 1000,700, The Removal Memory, and Wood of the Program Contact of the Program Contact of the Post of t
158	xpense	Electric Distribution IG	Manage Var Bal Acct	Management Enhanced Vegetation Management	SRM Total	WLDFR-M001: Enhanced Vegetation Management	Ex 4, Ch 9	No	On-going	Annual	131,816.0	161,012.9	29,197.0 22.1%	YES YES	# of Miles	1,800	274	(1,526) -84.8%	YES	Defensible Space (UDS); and 6) OneVM Tool.	pogram units.	Under	Under	Ower	Rescheduled	Management, with similar spend and pace as occurred in 2023.
159	expense i	Control Distribution IS	Manage Var Bal Acet	Not our inner	SDM Total	COM Total	Ex 4, Ch 21 Ex 4, Ch 4.5 Ex 4, Ch 4.6	No.	NA .	N/A	76.787.2	161,012.9	20,197.0 22.1%	NA NA	Not Unitized – There is no applicable unit of measure for t	1,800	2/4	(1,526) -84.8%	N/A	NA. Audia program expenses were allows imputed regulatory values due to the forecast in MAT ESI only actuated the Customer and Program Management Office (PMC) appears derEgistration of the Control of	NA Not solived	NA Tours	On-Target	NA .	Emergent	NA. This work is originity and will continue in PGAE's 2023 GRC period. This MAT's used to record serious balancing and memorantum account actrities, like EPSR. PGAE articipates that this program will be over the 2023 GRC poly imputed regulatory values due to emergent actrities that server not forecast in the PGRC EPPSR is precise uniquinous explanations.
160	:xpense	Electric Distribution IG	Manage Var	Text and and	OTON TOLE	DOWN IN MORE A 4494-1-1	Ev 4 Ch 21		Un-gang	Arrical	10,767.2	132,922.9	00,033.2 72.5%	TES TES	program.	N/A	NA	NA NA	NO	в изк ст от реодинг на в чесов, иссыв карилика мого овоом персово годовогу увилах.	THE MINUSES.	On-Target	On-rarger	Own	Emergent	ment not noticeast at the curve an air cod (see code minimal inspiration).
161	Expense	Electric Distribution IG	Bal Acct Processes #	Not assigned	Distribution Overhead	DOVHD-M005: Additional d Asset Data Capture	Ex 4, Ch 4.6	Yes	N/A	N/A	-	183.9	183.9 100.0%	N/A N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	NA .	N/A	N/A	N/A	N/A	NA .
162	xpense I	Electric Distribution IG	Manage var Bail Acct Processes #	Not assigned	Emergency Preparedness & Response	EPNDR-C000: EP&R Controls	Ex 4, Ch 21 Ex 4, Ch 4.5 Ex 4, Ch 4.6	Yes	N/A	N/A		232.2	232.2 100.0%	N/A N/A	NA	N/A	N/A	N/A N/A	N/A	N/A	NA	NA	N/A	N/A	N/A	NA .
163	Expense I	Electric Distribution IG	Manage Var Bal Acct Processes #	Not assigned	Emergency Preparedness & Response	EPNDR-C002: Situational Awareness and Forecasti Initiatives - WSOC	Ex 4, Ch 21 ing Ex 4, Ch 4.5 Ex 4, Ch 4.6	Yes	N/A	N/A		2,724.7	2,724.7 100.0%	N/A N/A	N/A	N/A	N/A	N/A N/A	NA	NA .	N/A	N/A	N/A	N/A	N/A	NA .
164	Expense I	Electric Distribution IG	Manage Var Bal Acct Processes #	Not assigned	Emergency Preparedness & Response	EPNDR-M000: EP&R Mitigations	Ex 4, Ch 21 Ex 4, Ch 4.5 Ex 4, Ch 4.6	Yes	N/A	N/A		190.0	190.0 100.0%	N/A N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	NA .	N/A	N/A	N/A	N/A	N/A
165	Expense I	Electric Distribution IG	Manage Var Bal Acct Processes #	Not assigned	Wildfre	WLDFR-M006: PSPS Reduction Initiatives	Ex 4, Ch 21 Ex 4, Ch 4.5 Ex 4, Ch 4.6	Yes	N/A	N/A		7,202.5	7,202.5 100.0%	NA NA	N/A	N/A	N/A	N/A N/A	N/A	NA.	NA .	N/A	N/A	N/A	N/A	NA.
166	Expense I	Electric Distribution IG	Manage Var Bal Acct Processes #	Not assigned	Wildfre	WLDFR-MOIT: Wildfire IT Work	Ex 4, Ch 21 Ex 4, Ch 4.5 Ex 4, Ch 4.6	Yes	N/A	N/A	38,734.4	36,120.5	(2,613.9) -8.7%	NA NA	N/A	N/A	N/A	N/A N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA.
167	Expense I	Electric Distribution IG	Manage Var Bal Acct Processes #	Not assigned	Wildfre	WLDFR-M020: Enhanced Powerline Safety Settings	Ex 4, Ch 21 Ex 4, Ch 4.5 Ex 4, Ch 4.6	Yes	N/A	N/A	34,895.7	64,233.4	29,337.6 84.1%	NA NA	N/A	N/A	N/A	N/A N/A	N/A	N/A	NA.	N/A	N/A	N/A	N/A	NA.
168	Expense I	Electric Distribution IG	Manage Var Bail Acct Processes #	Not assigned	Wildfre	POST-GRC: Post-GRC Mitigation	Ex 4, Ch 21 Ex 4, Ch 4.5 Ex 4, Ch 4.6	Yes	N/A	N/A		18,404.1	18,404.1 100.0%	NA NA	N/A	N/A	N/A	N/A N/A	N/A	N/A	NA.	N/A	N/A	N/A	N/A	NA.
169	Expense I	Electric Distribution IG	Manage Var Bai Acct Processes #	Not assigned	SRM (NON-RAMP)	SRM (NON-RAMP)	Ex 4, Ch 21 Ex 4, Ch 4.5 Ex 4, Ch 4.6	Yes	N/A	N/A	3,157.0	3,131.2	(25.8) -0.8%	NA NA	N/A	N/A.	NIA	N/A N/A	N/A	N/A	NA.	N/A	N/A	N/A	N/A	NA.
170	Expense I	Electric Distribution IS	Bill Customers N/A	Not assigned	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 22	No	On-going .	Annual	1,830.7	572.6	(1,258.1) -68.7%	NO NO	Not Unitized – There is no applicable unit of measure for t program.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized:	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
171	Expense I	Electric Distribution IU	Collect Revenue N/A	Not assigned	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 8	No	On-going	Annual	1,589.9	1,088.0	(501.8) -31.6%	NO NO	Not Unitized – There is no applicable unit of measure for t program.	N/A	NIA	N/A N/A	NO	Below veriance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA.
172	Expense I	Electric Distribution JV	Maintain IT Apps & Infra N/A	Not assigned	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 20 Ex 4, Ch 21	No	On-going .	Annual	8,419.0	4,430.2	(3,988.9) -47.4%	NO NO	Not Unitized – There is no applicable unit of measure for t program.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
173	Expense I	Electric Distribution JV	Maintain IT Apps & Infra N/A	Not assigned	Emergency Preparedness & Response	EPNDR-C002: Situational Awareness and Forecastis Initiatives - WSOC	d ing Ex 4, Ch 20 Ex 4, Ch 21	Yes	N/A	N/A		755.6	755.6 100.0%	N/A N/A	NA	N/A	N/A	N/A N/A	N/A	N/A	NA .	N/A	N/A	N/A	N/A	N/A
174	Expense I	Electric Distribution JV	Maintain IT Apps & Infra N/A	Not assigned	SRM (NON-RAMP)	SRM (NON-RAMP)	Ex 4, Ch 20 Ex 4, Ch 21	Yes	N/A	N/A	8,419.0	3,674.6	(4,744.5) -56.4%	N/A N/A	NA	N/A	N/A	N/A N/A	N/A	NA.	NA I	N/A	N/A	N/A	N/A	NA T
175	Expense (Electric Distribution KA	E Dist Maint OH General KAA	OH Genl CM Tag	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	22,085.7	75,396.0	53,309.3 241.4%	YES YES	# of Notifications Completed	24,151	26,555	2,404 10.0%	NO	Actual program expenses were above imputed regulatory values due to a reduction in unit cost in the 2023 GRC final decision. The commission adopted a unit cost based on PG&E's unit costs for 2024 and prior. This is significantly below observed costs in years since 2020, driven by higher contract costs.	Below variance threshold.	On-Target	On-Target	Over	Proceeding as Planned	This program's work is engining and will continue in PGAE's 2023 GRC period. The purpose of this program is the repair of overhead (OH) facilities or replacement of individual components that are not an imminism hazard and have not caused an outage. PGAE anticipates the program scope will semain on target white spending more than the GRC impused adopted costs, over the remainder of the cycle.
176	Expense II	Electric Distribution KA	E Dist Maint OH General KAA	OH Geni CM Tag	Distribution Overhead	DOVHD-C003: Equipment Maintenance and Replacement - Distribution d Overhead	t in Ex 4, Ch 11	No	N/A	N/A	22,085.7	75,396.0	53,309.3 241.4%	N/A N/A	# of Notifications Completed	24,151	26,555	2,404 10.0%	N/A	N/A	NA .	N/A	N/A	N/A	N/A	NA
177	Expense II	Electric Distribution KA	E Dist Maint OH General KAA	OH Genl CM Tag	Wildfre	WLDFR-C008: Equipment Maintenance and Replacement - Distribution Overhead	n Ex 4, Ch 11	No	N/A	N/A	22,085.7	75,396.0	53,309.3 241.4%	N/A N/A	# of Notifications Completed	24,151	28,555	2,404 10.0%	N/A	N/A	NA.	N/A	N/A	N/A	N/A	NA.
178	Expense	Electric Distribution KA	E Dist Maint OH General KAC	Bird Safe Retrofit	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	1,231.4	683.1	(548.3) -44.5%	NO NO	# of Notifications Completed	638	402	(236) -37.0%	YES	Below variance threshold.	Actual program units were below imputed program units due to lower find rates than forecasted.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is orgaing and will continue in PG&E's 2023 GRC partied. The purpose of this program is the replacement or installation of bird goard materials such as jumper coxers, bushing coxers, purch guards, or perthing patterns on incident ender adjusters gives in septonse to a bird selectrocition, per U.S. Fish and Waldfile Senice (USFWS) requirements and USBY Operating Standards 5232-1.
179	Expense	Electric Distribution KA	E Dist Maint OH General KAC	Bird Safe Retrofit	Distribution Overhead	DOVHD-C003: Equipment Maintenance and Replacement - Distribution d Overhead	t in Ex 4, Ch 11	No	N/A	N/A	1,231.4	683.1	(548.3) -44.5%	NA NA	# of Notifications Completed	638	402	(236) -37.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA.
180	Expense I	Electric Distribution KA	E Dist Maint OH General KAC	Bird Safe Retrofit	Wildfre	WLDFR-C011: Animal Abatement	Ex 4, Ch 11	No	N/A	N/A	1,231.4	683.1	(548.3) -44.5%	N/A N/A	# of Notifications Completed	638	402	(236) -37.0%	N/A	NA.	NA	N/A	N/A	N/A	N/A	NA.
181	Expense I	Electric Distribution KA	E Dist Maint OH General KAD	Bird Safe Retrofit Annual	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	1,436.3	312.7	(1,123.6) -78.2%	NO NO	# of Notifications Completed	1,022	224	(798) -78.1%	YES	Below variance threshold	Actual program units were below imputed program units based on a lower find rate for bird stifkles on overhead equipment requiring remediation.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is orgaing and will continue in PG&E's 2023 GRC period. The purpose of this program is to perform Bird Sufe Ratiofits, which are based on find rate.
182	xpense I	Electric Distribution KA	E Dist Maint OH General KAD	Bird Safe Retrofit Annual	Wildfre	WLDFR-C011: Animal Abatement	Ex 4, Ch 11	No	NA	N/A	1,438.3	312.7	(1,123.6) -78.2%	NA NA	# of Notifications Completed	1,022	224	(798) -78.1%	N/A	NA .	NA .	N/A	N/A	N/A	N/A	NA .
183	xpense I	Electric Distribution KA	E Dist Maint OH General KAF	OH COE CM Tag	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	7,213.0	6,418.9	(794.1) -11.0%	NO NO	# of Notifications Completed	1,380	1,141	(239) -17.3%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
184	Expense I	Electric Distribution KA	E Dist Maint OH General KAF	OH COE OM Tag	Wildfre	WLDFR-C008: Equipment Maintenance and Replacement - Distribution Overhead	n Ex 4, Ch 11	No	N/A	N/A	7,213.0	6,418.9	(794.1) -11.0%	NA NA	# of Notifications Completed	1,380	1,141	(239) -17.3%	N/A	N/A	NA.	N/A	N/A	N/A	N/A	NA.
185	xpense I	Electric Distribution KA	E Dist Maint OH General KAH	Streetlights Repl Burnouts	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	2,171.8	1,760.7	(402.2) -18.5%	NO NO	# of Burnout Repairs	11,714	6,191	(5,523) -47.2%	YES	Below variance threshold.	Actual program units were below imputed program units due to fewer burnouts of streetlights needing repair, because of previous conversions to LEDs.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to repair streetlights when a streetlight outage has occurred. PG&E underspent in this program due to a lower find rate than anticipated.

TABLE 3-3
2023 GRC CYCLE ELECTRIC DISTRIBUTION EXPENSE COMPARISON BY MAT CODE FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)
(CONTINUED)

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Line	Type (O&M pense or	Functional	C1 C2	C3 C4	CS	RAMP Mitigation and/or	2023 GRC Testimony Reference	RAMP	Program /	Program /	2023 Imputed	2623	Difference for 2023	Spending Percent	Spending Variance	Percentage Variance	M	2023 Imputed	2023 D	ifference Unit Percen	Unit t Variance	2023 Cost	2023 Unit	Scope	U2 Schedule	Budget		
No Ex	pense or Capital)	Functional Area	MWC MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (8) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 D Actual Units (#	ifference for 2023 of Units) (O-N) (O-N)/N*1	t Variance e Explanation %) Required 00) (Y/N)	3023 Cost Variance Explanation	3023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
100 500	20000	Electric Distribution	E Dist Maint	KAH Streetlinks Rent Rumouts	Distribution Duerhead	DOVHD-C003: Equipment Maintenance and Replacement - Distribution	Ev.4 (h.11	No.	N/A	NIA	2 171 9	1 760 7	(402.2)	10.0%	N/A	AVA.	# of Durnout Donoise	11.714	6 101	(5 520) A7 200	N/A	NAJA.	NA	AVA.	N/A	N/A	AVA	NA.
100 2.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Jethe Contractor	E Dist Maint		SRM Total (NON-			100	180	180	2,171.0	1,250.7	(102.2)	10.3%	190	NA.	Not Unitized – There is no applicable unit of measure for this	11,114	0,131	(3,323) 41.23	NA.	110		NA.	ies.	100	100	
187 Ex	pense E	Electric Distribution	KA OH General	KAK RTVI Invest/Repr	RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 11	No	On-going	Annual	126.4	88.8	(37.6)	-29.8%	NO	NO	program. Not Unitized – There is no	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unifized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA.
188 Ex	pense E	Electric Distribution	E Dist Maint KA OH General	KAM Insulators Wash	SRM Total	SRM Total DOVHD-C003: Equipment	Ex 4, Ch 11	No	On-going .	Annual	246.3	304.8	58.5	23.8%	NO	NO	applicable unit of measure for this program.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA.
189 Ex	pense E	Electric Distribution	E Dist Maint KA OH General	KAM Insulators Wash	Distribution Overhead	Maintenance and Replacement - Distribution d Overhead	Ex 4, Ch 11	No	N/A	N/A	246.3	304.8	58.5	23.8%	N/A	NA	N/A	N/A	N/A	N/A N/A	N/A	NA .	NA	N/A	N/A	N/A	N/A	N/A
190 Ex	pense E	Electric Distribution	E Dist Maint KA OH General	KAO Isle Fac Invest - Svc Ping	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	214.7	2,054.1	1,839.4	856.8%	NO	NO	Not Unitized – There is no applicable unit of measure for this program.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA.
191 Ex	pense E	Electric Distribution	E Dist Maint KA OH General	KAO idle Fac Invest - Suc Ping	Distribution Overhead	DOVHD-C003: Equipment Maintenance and Replacement - Distribution of Overhead	Ex 4, Ch 11	No	N/A	N/A	214.7	2,054.1	1,839.4	856.8%	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	NA.	N/A	N/A	N/A	N/A	N/A	NA.
			E Dist Maint	V40. 01570.0-1-1-	ODM Total	COM Total	5.10.41										Not Unitized – There is no applicable unit of measure for this										Daniel Control	
192 Ex	pense E	Electric Distribution	E Dist Maint	KAP OH EXP Projects	SHM TOTAL	DOVHD-C003: Equipment Maintenance and Replacement - Distribution	Ex 4, Ch 11	No	On-going .	Annual	1,792.6	25.6	(1,767.0)	-98.6%	NO	NO NO	program.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA .
193 Ex	pense E	Electric Distribution	KA OH General	KAP OH EXP Projects	Distribution Overhead	d Overhead	Ex 4, Ch 11	No	N/A	N/A	1,792.6	25.6	(1,767.0)	-98.6%	N/A	NA	N/A	N/A	N/A	N/A N/A	N/A	N/A	NA .	N/A	N/A	N/A	N/A	N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is Word Pole Bridge Rondon. Word note hondon is a maintenance activity where an
10/		Electric District Co.	E Dist Maint	KAO Wood Pole Bridge Boods -	SRM Tre~	SRM Treal	Ex 4 Ch-11		00.00	Angeral		one -	****	97940 451		110	# of Netifications Completed	_	200	204		Dislows and more those hold	Actual program units were above imputed program units based on inspections that identified the need for a higher number of wood pole bridge bonding retrofits than articipated.	0	On Towns	~	Properties on Plan	his programs work is organize and will continue in PCRES; 2003 DRC particl. The purpose of this organie is Winot Pce Bridge Bording. Wood poll bording is a mainterisance activity where an existing wood pole supporting both electric transmission and distribution line facilities in retroffited in grounding protection to present fire which can occur at the location on the pole where the electric distribution cross arm is bothed to the pole. PCRES arecticipates continuing to perform above regularidal amounts for costs and with so one or menimizate of the ORC cytes.
n# EX	ARING E	Decine Distribution	E Dist Maint	THOSE I WAS BRIDGE BORRING	aron roull	WLDFR-C008: Equipment Maintenance and Replacement - Distribution	-A 7, WI II	NO.	Unigoing	Armali	1.1	861.8	880.7	aua iti.1%	- NO	NU	- roomana Compane	2	296	,com 14700.0°	YES	DERICH WHISH IN CHESTISSE.	— и перене постоле за того роке менду Волгану полока ими извесработ.	OWE	Un-larget	Over	Proceeding as Planned	THE COLUMN TWO WHILE STATE WITH THE CHINESTER OF STATE STATE CYCLE.
195 Ex	pense E	Electric Distribution	KA OH General	KAQ Wood Pole Bridge Bonding	Wildfre	Overhead	Ex 4, Ch 11	No	N/A	N/A	1.1	881.8	890.7	80816.1%	NA	NA	# of Notifications Completed	2	296	294 14700.01	% N/A	NA .	NA	NA	N/A	N/A	N/A	NA This program's work is orgating and will continue in POAE's 2023 GRC period. The Frield Automation System (FAS) Outrhoad program performs work that is identified during a field job and completed by a single Toubleman. POAE anticipates continuing to perform work in this program during the 2023
196 Ex	pense E	Electric Distribution	E Dist Maint KA OH General	KAS FAS Overhead Expense	SRM Total	SRM Total DOVHD-C003: Equipment	Ex 4, Ch 11	No	On-going .	Annual	1,797.0	1,150.3	(646.7)	-36.0%	NO	NO	# of Notifications Completed	10,453	8,302	(2,151) -20.6%	YES	Below variance threshold.	Actual units were below imputed units because there were fewer notifications to respond to in 2023 than forecasted.	On-Target	On-Target	On-Target	Proceeding as Planned	a single Troubleman. PG&E anticipates continuing to perform work in this program during the 2023 GRC cycle.
197 Ex	pense E	Electric Distribution	E Dist Maint KA OH General	KAS FAS Overhead Expense	Distribution Overhead	Maintenance and Replacement - Distribution d Overhead	Ex 4, Ch 11	No	N/A	N/A	1,797.0	1,150.3	(646.7)	-36.0%	N/A	N/A	# of Notifications Completed	10,453	8,302	(2,151) -20.6%	N/A	NA.	NA	N/A	N/A	N/A	N/A	NA NA
198 Ex	pense E	Electric Distribution	E Dist Maint KA OH General	KAT Remote Grid SPS Maintenance	SRM Total	SRM Total	Ex 4, Ch 4.3	No	On-going	Annual	1,038.7	125.6	(913.1)	-87.9%	NO	NO	Not Unitized – There is no applicable unit of measure for this program.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA.
100 Ev	20000	Electric Distribution	E Dist Maint KA OH General	KAT Remote Grid SPS Maintenance	Dictilization Comband	DOVHD-M011: Remote Grid	Ex 4. Ch 4.3	No.	N/A	NIA	1039.7	25.0	(4.042.0)	07.6%	N/A	AVA.	MYA	N/A	MA	N/A N/A	N/A	NAJA.	NA	AVA.	N/A	N/A	AVA	NA.
132	,	Jacob Diamond	E Dist Maint		Distribution O'Minato	WLDFR-M017: System	E. 4, CH 4.5			NA.	1,030.7	250	(1,012.3)	587.374	No.	NA.	in a	NA.	NA.	No. No.	140	190	WA.	No.	No.		180	PAG.
200 Ex	pense E	Electric Distribution	KA OH General	KAT Remote Grid SPS Maintenance	Wildfre	Hardening - Remote Grid	Ex 4, Ch 4.3	No	N/A	N/A	1,038.7	125.6	(913.1)	-87.9%	N/A	N/A	N/A Not Unitized – There is no applicable unit of measure for this	N/A	N/A	N/A N/A	N/A	NA.	NA	N/A	N/A	N/A	N/A	NA.
201 Ex	pense E	Electric Distribution	E Dist Maint KA OH General	# Not assigned	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 11	No	On-going	Annual	888.1	(34.2)	(922.4)	-103.9%	NO	NO	applicable unit of measure for this program.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized:	On-Target	On-Target	On-Target	Proceeding as Planned	NA This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this
202 Ex	pense E	Electric Distribution	E Dist Maint KB UG	KBA US Genl CM Tag	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	17,136.2	15,657.4	(1,477.8)	-8.6%	NO	NO	# of Notifications Completed	6,163	4,916	(1,247) -20.2%	YES	Below variance threshold.	Actual program units were below imputed program units due to optimizing resources to focus on completing higher priority maintenance tags within MWCs KA and KB.	On-Target	On-Target	On-Target	Proceeding as Planned	This programs's work is ongoing and will continue in PO&E's 2023 GRC period. The purpose of this program is underground corrective maintenance that does not pose an imminent hazard and have not caused an ordage. PO&E will continue to complete notifications based on the workplain maintenance schedule and priority of the tags.
203 Ex	pense E	Electric Distribution	E Dist Maint KB UG	KBA US Geni CM Tag	Underground	DUNGD-C002: Underground Notifications	Ex 4, Ch 11	No	N/A	N/A	17,135.2	15,657.4	(1,477.8)	-8.6%	NA	N/A	# of Notifications Completed	6,163	4,916	(1,247) -20.2%	NA	NA .	NA .	N/A	N/A	N/A	N/A	NA
204 Ex	oense E	Electric Distribution	E Dist Maint KB UG	KBC US COE CM Tag	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	1.547.5	403.6	(1.143.9)	-73.9%	NO.	NO	# of Notifications Completed	175	103	(72) -41.1%	YES	Below variance threshold.	Actual program units were below imputed program units due to optimizing resources to focus on completing higher priority maintenance tags within MWCs KA and KB.	Under	Under	Under	Rescheduled	This program's work is orgoing and will continue in PG&E's 2023 GRC period. The purpose of the program is to repair of underground Critical Operating Equipment (COE). During the GRC cycle PG&E expects to continue to reprioritize the work in MAT KBC to other higher priority maintenance and: in MWCs KA and KB.
			E Dist Maint			DOVHD-C003: Equipment Maintenance and Replacement - Distribution																						
205 Ex	pense E	Electric Distribution	KB UG E Dist Maint	KBC US COE CM Tag	Underground	Overhead	Ex 4, Ch 11	No	N/A	N/A	1,547.5	403.6	(1,143.9)	-73.9%	N/A	N/A	# of Notifications Completed Not Unitized – There is no applicable unit of measure for this	175	103	(72) -41.1%	N/A	NA .	NA .	N/A	N/A	N/A	N/A	NA .
206 Ex	pense E	Electric Distribution	KB UG	KBD Ntrogen Cylinders CM	SRM Total	SRM Total DOVHD-C003: Equipment Maintenance and	Ex 4, Ch 11	No	On-going	Annual	24.7	8.4	(16.3)	-65.9%	NO	NO	program.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unifized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA.
207 Ex	pense E	Electric Distribution	E Dist Maint KB UG	KBD Ntrogen Cylinders CM	Underground	Maintenance and Replacement - Distribution Overhead	Ex 4, Ch 11	No	N/A	N/A	24.7	8.4	(16.3)	-65.9%	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	NA .	NA	N/A	N/A	N/A	N/A	N/A
208 Ex	pense E	Electric Distribution	E Dist Maint KB UG	KBE BART Cable Repr	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	70.8	0.5	(70.3)	-99.2%	NO	NO	Not Unitized – There is no applicable unit of measure for this program.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA.
209 Ex	pense E	Electric Distribution	E Dist Maint KB UG	KBE BART Cable Repr	Underground	DOVHD-C003: Equipment Maintenance and Replacement - Distribution Overhead	Ex 4, Ch 11	No	N/A	N/A	70.8	0.5	(70.3)	-99.2%	NA	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA .
246		Electric District Co.	E Dist Maint	KBP UG EXP Projects	SRM Tre~	SRM Treal	Ev.4. (2)-11		On or '	Annormal	700 -			00 000		110	# of Leastings	200		7950) 400		Delow updago, those hold	Actual units were below imputed units because this is a project-based repair program. In 2023 PG&E did not identify any underground repair projects.	OnTown	On Town	Or *	Properties on Planning	This program's work is ongoing and will continue in PG&E's 2023 GRC period. This program supports major project underground work. Completion of work is dependent on the scope of the review.
ziù Ex	AITHE E	Decine Distribution	KB UG E Dist Maint	Out Lot 1 rights	aron roull	DUNGD-C004: Planned Major	4, 50111	NO.	Unigoing	Armali	788.8	1.1	(/8/.7)	-20,9%	- NO	NU	V or Excellents	Zbb		(200)) -100.09	TES	DERICH WHISH IN CHESTISTS.	до 100 постој вој извижуваем ЛРВЕ РОЈАСИ.	Oir-iage.	Un-larget	On-Target	- newword as married	
211 Ex	pense E	Electric Distribution	KB UG	KBP UG EXP Projects	Underground	Projects	Ex 4, Ch 11	No	N/A	N/A	788.8	1.1	(787.7)	-99.9%	NA	NA	# of Locations Not Unitized – There is no	255		(255) -100.09	i NA	NA .	NA	NA	N/A	N/A	N/A	NA .
212 Ex	pense E	Electric Distribution	E Dist Maint KB UG	# Not assigned	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 11	No	On-going .	Annual	757.7	-	(757.7)	-100.0%	NO	NO	applicable unit of measure for this program.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA
213 Ex	pense E	Electric Distribution	E Dist Maint KC Network	KCA Nowk Equip Correct Maint NWTX	X SRM Total	SRM Total	Ex 4, Ch 14	No	On-going	Annual	449.8	39.6	(410.2)	-91.2%	NO	NO	# of Locations	80	17	(63) -78.8%	YES	Below variance threshold.	Actual units were below imputed units because fewer tags were generated from abnormal operating conditions.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to make repairs on network equipment e.g., transformers and protectors.
214 Ex	pense E	Electric Distribution	E Dist Maint KC Network	KCA Ntwk Equip Correct Maint NWTX	X Distribution Network	DNTWK-C002: Maintenance and Corrective Work	Ex 4, Ch 14	No	N/A	N/A	449.8	39.6	(410.2)	-91.2%	N/A	N/A	# of Locations	80	17	(63) -78.8%	N/A	NA.	NA	N/A	N/A	N/A	N/A	NA.
			E Dist Maint	Nowk Oil Repl & 60Day F/U					I														Actual units were below imputed units because of a transition to a new maintenance tracking software for tracking network maintenance work. Some replacements were not recorded due to issues with SAP Asset Manager in the early implementation phase in 2023, which has nitrate been constituted.					This program's work is ongoing and will continue in POBE's 2023 GRC period. The purpose of this program is a continuing effort to reptace oil in network transformers based on dissorbed gas analysis, and to perform 62-day follow-up ne-turque requirement in order to maintain a sale and reliable distinuing network system.
215 Ex	pense E	Electric Distribution	KC Network	KCB NW1X	SRM Total	SRM Total	Ex 4, Ch 14	No	On-going .	Annual	33.9	5.2	(28.7)	-84.6%	NO	NO	# of Locations	25	8	(17) -68.0%	YES	Below variance threshold.	since been corrected.	On-Target	On-Target	On-Target	Proceeding as Planned	distribution network system.
216 Ex	pense E	Electric Distribution	E Dist Maint KC Network	Ntwk Oil Repl & 60Day F/U KCB NWTX	Distribution Network	DNTWK-C002: Maintenance and Corrective Work	Ex 4, Ch 14	No	N/A	N/A	33.9	5.2	(28.7)	-84.6%	N/A	N/A	# of Locations Not Unitized – There is no	25	8	(17) -68.0%	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA
217 Ex	pense E	Electric Distribution	E Dist Maint KC Network	KCC Ntwk Vault Correct Maint NWTX	SRM Total	SRM Total	Ex 4, Ch 14	No	On-going	Annual	134.5	7.7	(126.9)	-94.3%	NO	NO	Not Unitized – There is no applicable unit of measure for this program.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unifized.	On-Target	On-Target	On-Target	Proceeding as Planned	NA .
218 Ex	pense E	Electric Distribution	E Dist Maint KC Network	KCC Nowk Vault Correct Maint NWTX	Distribution Network	DNTWK-C002: Maintenance and Corrective Work	Ex 4, Ch 14	No	N/A	N/A	134.5	7.7	(126.9)	-94.3%	NA	NA	N/A	7,659		(7,659) -100.09	. NA	NA.	NA	N/A	N/A	N/A	N/A	NA .
			E 2011																				Actual units were below imputed units because PG&E changed the unit of measure for this MAT in 2023 from (1) the number of chambers for which we drew of samples from, to (2) the number of transformers maintained. The 2023 GRC unit forecast was based on the number of chambers that each network transformer can have, retwork transformers can have up to 3					This program's work is engoing and will continue in PO&E's 2023 GRC period. The purpose of this program is a continuing effort to perform preventive maintenance on network transformers to maintain
219 Ex	pense E	Electric Distribution	E Dist Maint KC Network	KCD Nowk XImr PrevMaint/Retst NWT	DX SRM Total	SRM Total	Ex 4, Ch 14	No	On-going	Annual	2,808.7	4,486.7	1,678.0	59.7%	NO	NO	# of Transformers	3,600	1,963	(2,237) -62.1%	YES	Below variance threshold.	cosmoses unit each network transformer can have; network transformers can have up to 3 chambers.	On-Target	On-Target	On-Target	Proceeding as Planned	program is a continuing effort to perform preventive maintenance on network transformers to maintain a safe and reliable distribution network system.
220 Ex	pense E	Electric Distribution	E Dist Maint KC Network	KCD Nowk XImr PresMaint/Retst NWT	IX Distribution Network	DNTWK-C002: Maintenance and Corrective Work	Ex 4, Ch 14	No	N/A	NA	2,808.7	4,486.7	1,678.0	59.7%	NA	NA	# of Transformers	3,600	1,363	(2,237) -62.1%	N/A	N/A	NA	NA	N/A	N/A	N/A	N/A
221 Ex	pense E	Electric Distribution	E Dist Maint KC Network	KCE Ntwk Protector Prev Maint NWT	X SRM Total	SRM Total	Ex 4, Ch 14	No	On-going	Annual	718.9	1,428.1	709.2	98.7%	NO	NO	# of Network Protectors	402	374	(28) -7.0%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	NA.
222 Fw	pense is	Electric Distribution	E Dist Maint KC Network	KCE Ntwk Protector Prev Maint NWT	X Distribution Network	DNTWK-C002: Maintenance and Corrective Work	Ex 4, Ch 14	No	N/A	N/A	718 9	1,428 1	709.2	98.7%	N/A	N/A	# of Network Protectors	402	374	(28) -7.0%	N/A	NA.	NA.	N/A	N/A	N/A	N/A	NA .
ex EX	ALISE E	metric translation	NO INTEREST.	THE PERSON NAMED IN CO.	- POWER INCOME	and someoned WOR	-4.7, 5/1 19	NO.	reA.	reA.	/18.9	1,428.1	/09.2	90.7%	n/A	NΑ	I - received a registration	402	3/4	(40)1 -7.0%	N/A	pro.	120	n/A	N/A	N/A	NA	lac.

					_																							
A	В	C1 C2	C3 C4	CS	C6	C7	D	E	F	G	н	- 1	J	к	L	М	N	0	Р	Q	R	8	Т	U1	U2	U3	v	w
Line (OSM No Expense o Capital)	Functional Area	MWC MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending S Percent V Variance Ex for 2023 (%) R ((H-G)/G*100)	pending Pen ariance Va planation Expl equired Re (Y/N)	rentage riance anation quired Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units	ifference for 2023 of Units) (O-N)	Unit Percent Variance for 2023 (%) ((O-N)/N*100)	Unit Variance Explanation Required (Y/N)	2923 Cost Variance Explanation	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
223 Expense	Electric Distribution	E Dist Maint KC Network	KCF Fiber/SCADA Comm Repr N	WTX SRM Total	SRM Total	Ex 4, Ch 14	No	On-going	Annual	1,011.5	185.5	(826.0)	-81.7%	NO	Not Unit applicab NO program	tized – There is no sie unit of measure for th	s NA	N/A	N/A	N/A	NO	Below variance threshold.	Not writzed.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
224 Expense	Electric Distribution	E Dist Maint KC Network	KCF Fiber/SCADA Comm Repr N	WTX Distribution Networ	DNTWK-C002: Maintenance and Corrective Work	Ex 4, Ch 14	No	N/A	N/A	1,011.5	185.5	(826.0)	-81.7%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
225 Expense	Electric Distribution	Operational OM Management	# Not assigned	SRM Total (NON- RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 22	No.	On-going	Arnual	19,950.4	12,753.0	(7,197.4)	-36.1%	NO	Not Unit applicab rES program	tized – There is no de unit of measure for th i.	s N/A	N/A	N/A	N/A	NO.	healst program expenses were believe imposed regulatory values as the higher efloration of containable to equilibre historical prosity of high price proportions or immagement bare contain. MINC OHI represents the non-historic contains to expense or manage PIGEE prosens the compared of the program of the program of the program of the program of the the contains a signified to both MINC ON and MINC OS, which regulator similar modellations to the program of the considerations, and with the similar department of the program of the program of the considerations, and with the similar department of the program of the pro	Not willing	On-Target	On-Target	Under	Proceeding as Planned	This program's work is ongoing and will continue in PGEE's 2023 GRC period. The purpose of this program is to record employee-elizated costs to provide supervision and management support. For this 2023 GRC cycle, PGEE expects this program to continue to be below imputed as explained in the cost will write every final.
228 Expense	Electric Distribution	Wildfre WF Mitigation	WFC (a) Cameras	SRM Total	SRM Total	Ex 4, Oh 4.1	No	On-going	Annual	-	12,340.4	12,340.4	100.0%	YES	rES # of Wild	dire Cameras	-	10	10	100.0%	YES	Actual program experies were shown impacted regulatory which because costs to this program empacted in MAT-BB in Biblioting-speriess were broaded in MAT-BB in Biblioting-speriess were broaded in MAT-BB in Biblioting-SEE (MAT-BB) in the 2022 GRC. EPAR, Camerae, PSPR, SPFT, Weather Station-Maintenance, and Wilders Mitigation Support. Charles approach for commercial service of the MAT-TVPC as welfine the valence threshold but distriction on the camerae which was not forecast in the 2023 GRC, and 2) higher sendor costs to camage the cummar program.	Actual program units were above imputed program within IMAT Code WFC because addition comman were shrokalated in ABR. There were 10 contents benedited at ABR and 10 completed in WFC. Both the binocested and completed units we bound under mitigation WLDFRAMOTO.	Over	On-Target	Over	Proceeding as Planned	This program's work is ongoing and will continue in PGBE's 2020 GRC period. This program supports the installation, operation and maintenance of wildfor commerce.
227 Expense	Electric Distribution	Wildfre WF Mitigation	WFC Cameras	Wildfre	WLDFR-M07D: Situational Awareness and Forecasting Initiatives - Cameras	Ex 4, Ch 4.1	No	N/A	N/A		12,340.4	12,340.4	100.0%	N/A	N/A # of Wile	dfire Cameras		10	10	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
228 Expense	Electric Distribution	Wildfre WF Mitigation	WFM (a) OtherWildfreSupport-Exp	SRM Total	SRM Total	Ex 4, Ch 4.1 Ex 4, Ch 5	No	On-going	Annual		8,309.7	8,309.7	100.0%	NO	Not Unit applicab rES program	tized – There is no ole unit of measure for th	s N/A	N/A	N/A	N/A	NO	Actual program expenses were above imputed regulatory values because costs for this program even imputed in MAT ABB. The Storing appersises were beneated in MAT ABB in the 2022 GRC. EP&R, Carmeras, PSPS, SPT, Weather Station Maintenance, and Wildfre Mitigation Support. Actual expenses for Other Wildfre Support are recorded in MAT VIPM and the difference between the imputed regulatory values and extend expenses in believe the variance threshold.	Not unitzed.	On-Target	On-Target	Over	Proceeding as Planned	This program's work is engining and will continue in PGBE's 2023 GRC period. This program supports PGBE's development operations, and maintenance of the fire potential index and other models that support PGPB, EPGS, and wishfire miligations.
229 Expense	Electric Distribution	Wildfre WF Mitigation	WFM OtherWildfreSupport-Exp	Emergency Preparedness & Response		Ex 4, Ch 4.1 Ex 4, Ch 5	Yes	N/A	N/A	-	1,880.6	1,880.6	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
230 Expense	Electric Distribution	Wildfre WF Mitigation	WFM OtherWildfreSupport-Exp	Wildfre	WLDFR-M07E: Situational Awareness and Forecasting Initiatives - Satellite Fire Detection	Ex 4, Ch 4.1 Ex 4, Ch 5	Yes	N/A	N/A		89.7	89.7	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
231 Expense	Electric Distribution	Wildfre WF Mitigation	WFM OtherWildfreSupport-Exp	Wildfre	WLDFR-M07I: Situational Awareness and Forecasting Initiatives - Advanced Fire Modeling	Ex 4, Ch 4.1 Ex 4, Ch 5	Yes	N/A	N/A	-	6,044.7	6,044.7	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
232 Expense	Electric Distribution	Wildfre WF Mitigation	WFM OtherWildfireSupport-Exp	Wildfre	WLDFR-M07J: Situational Awareness and Forecasting Initiatives - Meteorology	Ex 4, Ch 4.1 Ex 4, Ch 5	Yes	N/A	N/A	-	153.6	153.6	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
233 Expense	Electric Distribution	Wildfre WF Mitigation	WFM OtherWildfreSupport-Exp	Wildfre	WLDFR-M07K: Situational Awareness and Forecasting Initiatives - Fire Potential Index	Ex 4, Ch 4.1 Ex 4, Ch 5	Yes	N/A	N/A		141.0	141.0	100.0%	NA	N/A N/A		N/A	N/A	N/A	N/A	N/A	NA.	N/A	N/A	N/A	N/A	N/A	N/A
234 Expense	Electric Distribution	Wildfre WF Miligation	WFN (a) PSPS Non-Event Expense	SRM Total	SRM Total	Ex 4, Oh 4.2	No	On-going	Annual	-	19,942.8	19,942.8	100.0%	YES	Not Unit applicab rES program	tized – There is no de unit of measure for th	s N/A	N/A	N/A	N/A	NO	Actual program experies were done imputed regulatory where because costs to this program sens imputed in IAFA Bit the bilancy appresses were because flant MAT ABI in the 2022 GRC. EPAR, Camerae, PSPR, SPT, Weather Station Maintenance, and Welfer Miligation Support ABI ABI ABI ABI ABI ABI ABI ABI ABI ABI	Not writized.	On-Target	On-Target	Over	Proceeding as Planned	This program's work is origining and will continue in PG&E's 2023 QRC period. The purpose of this program is to propose for PSPS events and improve that PSPS program when included.
235 Expense	Electric Distribution	Wildfre WF Mitigation	WFN PSPS Non-Event Expense	Emergency Preparedness & Response	EPNDR-C005: EP&R Field Operations	Ex 4, Ch 5	Yes	N/A	N/A		203.5	203.5	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	NA.	NA	N/A	N/A	N/A	N/A	N/A
236 Expense	Electric Distribution	Wildfre WF Mitigation	WFN PSPS Non-Event Expense	Emergency Preparedness & Response	EPNDR-C006: EP&R Distribution Support Headcount	Ex 4, Ch 5	Yes	N/A	N/A		1,525.8	1,525.8	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	NA.	N/A	N/A	N/A	N/A	N/A	N/A
237 Expense	Electric Distribution	Wildfre WF Mitigation	WFN PSPS Non-Event Expense	Wildfre	WLDFR-M006: PSPS Reduction Initiatives	Ex 4, Ch 4.2	Yes	N/A	N/A		16,155.7	16,155.7	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
238 Expense	Electric Distribution	Wildfre WF Mitigation	WFN PSPS Non-Event Expense	SRM (NON-RAMP)) SRM (NON-RAMP)	Ex 4, Ch 4.2	Yes	N/A	N/A		2,057.8	2,057.8	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
239 Expense	Electric Distribution	Wildfre WF Mitigation	WFP (ii) PSPS Event Expense	SRM Total	SRM Total	Ex 4, Oh 4.2	No	On-going	Annual	-	5,598.2	5,558.2	100.0%	NO	Not Unit activities infeasibl	tized – The variety of wo in this program makes le to identify a single uni ure.	k it	N/A	N/A	N/A	NO	Actual program experies were show imputed regulatory which because costs to this program emporate in MAR Bit the Stolling-genness were forecast in MAR Bit the Stolling-genness were forecast in MAR ABI in the 2022 GRC. EPAR, Cameras, PSPR, SPT, Weather Station Maintenance, and Walfers Miligration Support. Actual separents for stack pSPPS overties an encoded in MAT VIPS and MAT CEE and were below regulator guidatory values due to 1) yearships in 2023 was forecasted and thresholds been PSPPS overties and the stationable and thresholds been PSPR actual separents for the position of the	Plot unitized.	On-Target	On-Target	Over	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. This program supports widthe mitigation through PGPB to mitigate widther mit.
240 Expense	Electric Distribution	Wildfre WF Mitigation	WFP PSPS Event Expense	Wildfre	WLDFR-M005: Public Safet Power Shutoff - PSPS Ever (Distribution)	y nt Ex 4, Ch 4.2	Yes	N/A	N/A		5.455.4	5.455.4	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
241 Expense	Electric Distribution	Wildfre WF Mitigation	WFP PSPS Event Expense	Wildfre	POST-GRC: Post-GRC Mitigation	Ex 4, Ch 4.2	Yes	N/A	N/A		100.8	100.8	100.0%	NIA	N/A N/A		N/A	N/A	N/A	N/A	N/A	NA.	N/A	N/A	N/A	N/A	N/A	N/A
242 Expense	Electric Distribution	Wildfre WF Milipation	WFS ⁽ⁱ⁾ SafetyinhaProtectTeam(SIP	T) SRM Total	SRM Total	Ex 4, Oh 4.1	No.	On-going	Arnual	-	19,869.7	19,869.7	100.0%	YES	Not Unit applicab rES program	tized – There is no ole unit of measure for th	s NA	N/A	N/A	N/A	NO	Actual program expenses were above imputed regulatory values because costs for this program was imputed in Mart 748f. The following expenses were breaster in MAT 486f in the 2023 GNC. Actual expenses for SPT are incorded in MAT 1975 and were below imputed regulatory values due for 1 shaffing construct coacting later costs to be lower than flowest, 2 quespinent delivery delayer, and 3) fewer catestroptic overtix requiring deployment of the SPT.	e Not writined.	On-Target	On-Target	Over	Proceeding as Planned	This program's work is organing and set continue in POSE's 2020 GRC period. This program supports POSE cross performing work in high fire risk areas.
243 Expense	Electric Distribution	Wildfre WF Mitigation	WFS SafetyInfraProtectTeam(SIP	F) Wildfre	WLDFR-M008: Safety and Infrastructure Protection Teams	Ex 4, Ch 4.1	Yes	N/A	N/A	-	19,889.7	19,869.7	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	NA.	NIA	N/A	N/A	N/A	N/A	NA
244 Expense	Electric Distribution	Wildfre WF Mitigation	WFW (ii) Weather Station Maintenance	e SRM Total	SRM Total	Ex 4, Ch 4.1	No.	On-going	Annual	-	2,468.4	2,468.4	100.0%	NO	Not Unit applicab program	tized – There is no ole unit of measure for th i.	s NA	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A
245 Expense	Electric Distribution	WF Mitigation	WFW Weather Station Maintenance	e Wildire	WLDFR-M07B: Situational Awareness and Forecasting Initiatives - Weather Station	Ex 4, Ch 4.1	No	N/A	N/A		2,468.4	2,468.4	100.0%	N/A	N/A N/A		N/A	N/A	N/A	N/A	N/A	NA.	NA	N/A	N/A	N/A	N/A	N/A

TABLE 3-4
2023 RSAR
2023 GRC CYCLE ELECTRIC DISTRIBUTION CAPITAL COMPARISON BY MAT CODE FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

A	В	C1 C2	C3	C4 C5	C6	C7	D	E	F	G	н	I	J Spending	K Spending	L	м	N	0	P	Q Unit	R Unit	S t	T T	U1	U2	U3	v	W
Line (O&M No Expense or Capital)	Functional Area	MWC MWC Nam	MAT N	MAT Name RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units	Difference for 2023 (# of Units) (O-N)	Unit Percent Variance for 2023 (%) ((O-N)/N*100)	Unit Varian Explana Requir (Y/N	t 2023 tice Cost tition Variance ted Explanation	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
1 Capital	Electric Distribution	05 Tools & Equip	ent N/A Not	t assigned SRM Total	SRM Total	Ex 4, Ch 22	No	On-going	Annual	7,607.7	9,412.7	1,804.9	23.7%	NO	NO	Not Unitized – There is no applicable unit of measure for this program.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planner	I NA
2 Capital	Electric Distribution	05 Tools & Equip	ent N/A Not	t assigned Wildfire	WLDFR-M020: Enhanced Powerline Safety Settings	Ex 4, Ch 22	Yes	N/A	N/A		89.9	89.9	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	. N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Capital	Electric Distribution	05 Tools & Equip	ent N/A Not	SRM (NON- assigned RAMP)	SRM (NON-RAMP)	Ex 4, Ch 22	Yes	N/A I	N/A	7,607.7	9,322.8	1,715.0	22.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	. N/A	N/A	N/A	N/A	N/A	N/A	NA
		E Dist. Line		Prj Assoc Subst SRM Total												Not Unitized – The variety of work activities in this program makes it infeasible to identify	1					Program expenditures were above imputed regulatory values due to: 1) projects had higher costs due to of complex scopes; 2) inflation increas costs of material and contract labor; and 3) new capacity work was	red					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to conduct distributions, capacity line work associated with substation capacity projects. PG&E expects to confinue to do more work in this program than forecasted due to S&H0 regiments, as discussed in
4 Capital	Electric Distribution	06 Capacity E Dist Line		pacity (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual	10,498.8	24,351.1	13,852.3	131.9%	NO	YES	single unit of measure.	a N/A	N/A	N/A	N/A	NO	completed as added scope to emergency substation replacement project for efficiency purposes.	Actual program units were below imputed program units due to prioritization of other work in MWC 06, like 06A, 06G and 06H.	On-Target	Over	Over	Expanded	commune to oo more work in this program than intercasted oue to Stat to requirements, as discussed in PG&E's 2023 GRC capacity phase filing. This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to perform overloaded secondary transformer replacements. In the 2023 GRC cycle, PG&E expects to
5 Capital	Electric Distribution	06 Capacity	06B Rep	ol Overloaded SRM Total	SRM Total	Ex 4, Ch 17	No	On-going	Annual	8,523.9	1,383.8	(7,140.1	-83.8%	NO	NO	# of Transformers	240	34	(206)	-85.8%	YES	Below variance threshold.	Transformers may have been replaced under emergency in MWC 17.	On-Target	On-Target	On-Target	Proceeding as Plannes	replace overloaded transformers at a higher pace than in 2023, in support of the Distribution Overhead risk.
6 Capital	Electric Distribution	E Dist Line 06 Capacity	06B Rep	nsformer Distribution pl Overloaded Overhead	DOVHD-C09A: Overloaded Transformers Replacement	Ex 4, Ch 17	No	N/A	N/A	8,523.9	1,383.8	(7,140.1	-83.8%	N/A	N/A	# of Transformers Not Unitized – The variety of	240	34	(206)	-85.8%	N/A	. N/A	N/A	N/A	N/A	N/A	N/A	NA .
7 Capital	Electric Distribution	E Dist Line 06 Capacity	06D Ma	inforce-DP SRM Total naged (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual	4,674.2	377.5	(4,296.8	-91.9%	NO	NO	work activities in this program makes it infeasible to identify single unit of measure.	a N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Plannes	This program's work is ongoing and will continue in PG&E's 2023 GRC period. This program performs
8 Capital	Electric Distribution	E Dist Line 06 Capacity	Circ Rei 06E Ma	cuits inforce-PS SRM Total naged (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual	25,025.8	12,634.5	(12,391.3	-49.5%	NO	YES	Not Unitized – The variety of work activities in this program makes it infeasible to identify single unit of measure.	a N/A	N/A	N/A	N/A	NO	Program expenditures were below imputed regulatory values due to reprioritization to other new business driven work within MWC 06.	Not unitized.	On-Target	Under	Under	Rescheduled	distribution circuit reinforcements. This is part of a continuing effort to mitigate distribution line overloads and to meet non-safety related planning criteria. This program is expected to increase when new business-driven capacity needs in MATs 06A and 06H decrease, and/or when the balancing account proposed by PG&E in the GRC capacity phase is approved.
9 Capital	Electric Distribution	E Dist Line 06 Capacity	Vol 06G Sec	tage Correct SRM Total (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual	2,869.7	4,022.7	1,153.1	40.2%	NO	NO	Not Unitized – There is no applicable unit of measure for this program.	. N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	I NA
																											-	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to provides the capacity necessary to complete new customer applications for senice. There has been an increase in ever applications for service and added loads that require capacity work to serve, expecially in
10 Capital	Electric Distribution	E Dist Line 06 Capacity	Dis 06H But	t Line New SRM Total siness Perf (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual	74,966.3	102,998.7	28,032.4	37.4%	YES	YES	Not Unitized – The variety of work activities in this program makes it infeasible to identify single unit of measure.	a N/A	N/A	N/A	N/A	NO	Program expenditures were above imputed regulatory values due to scop changes and cost escalations for identified work. In addition costs increased due to newly-identified projects to create capacity necessary energize customers who have submitted new applications for service.	to Not unitized.	On-Target	Over	Over	Expanded	the areas of transportation electrification, internet based distribution centers, data centers, high tech campuses, state and local infrastructure, agricultural well pumping, dairy bio digesters, and indoor cultivation. PG&E expects to continue to do more work in this program than forecasted due to SB410 requirements, as discussed in PG&E's 2023 GRC capacity Phase II filing.
11 Capital	Electric Distribution	E Dist Line	Ope 06I Cap	erational SRM Total pacity Proj (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual	7.014.7	1.975.9	(5.038.7	-71.8%	NO.	NO	Not Unitized – The variety of work activities in this program makes it infeasible to identify single unit of measure.	a N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planner	I NA
12 Capital	Electric Distribution	E Dist Line		wer Factor SRM Total nagement (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On oning	Annual	1,167.4	182.5	(1.004.9	-86.1%	N	NO	Not Unitized – There is no applicable unit of measure for this program.	. N/A	N/A	N/A	N/A	NO.	Below variance threshold.	Not unitized.	On-Target			Proceeding as Planner	
12 Capital	recinc distribution	E Dist Line	065	P_Enable DG SRM Total	SRM Total (NON-RAMP)	Ex 4, Ch 17	NO	Origing	Allidai	1,107.4	102.5	(1,004.5	-92.2%	110	NO	Not Unitized – There is no applicable unit of measure for		NA .	NA.				Not unitated.					
13 Capital	electric Distribution	E Dist Line	USP DIS	SRM Total			No	On-going	Annual	1,401.3	109.2	(1,292.2		NO	NO	this program. Not Unitized – There is no applicable unit of measure for	. N/A	NA NA	NA	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	
14 Capital	Electric Distribution	06 Capacity	# Not	assigned (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going /	Annual	7,438.3	7,246.1	(192.1	-2.6%	NO	NO	this program.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to conduct tree assessments. If the tree assessment determines the tree-connect needs to be replaced
15 Capital	Electric Distribution	E Dist Inst/Rep 07 Poles	OH VM 07A Ass	e Connect I SRM Total sessments (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 12	No	On-going	Annual		(1,366.7)	(1,366.7	-100.0%	NO	NO	Not Unitized – This program has no measurable units because there is no standard unit of measure.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planner	with a new jole, an O'C notification is created where the work is actually performed. The follars for the assessments are then transferred to the O'C orders where the work will be performed. This program was not forecasted in the 2023 GRC. The small negative actuals are the result of the point in time snapshot for the RSAR and a journal entry for transferring costs from MAT 07A to MAT 07C.
																						Program expenditures were above imputed regulatory values due to a higher volume of tree connect attachments were identified as needing replacement than forecast in the 2023 GRC. Tree connects are identified during inspections and prioritized according to urgency for replacement.	than forecast in the 2023 GRC. Tree connects are identified during					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to proactively replace dead, dying, and declining trees being used as a utility power pole prior to premature failure. This program is demand driven based on find rates and associated notifications, and the
16 Capital	Electric Distribution	E Dist Inst/Rep 07 Poles	OH Spr 07C Pol	ecial Criteria le Repl SRM Total	SRM Total	Ex 4, Ch 12	No	On-going	Annual	3,150.4	15,717.4	12,567.0	398.9%	NO	YES	# of Poles	270	581	311	115.4%	YES	The 2023 GRC Final Decision adopted a lower unit cost than PG&E's forecast, also contributing to the higher amount of actual costs for this program.	inspections and prioritized according to the urgency for replacement. For this program the costs are directly associated with the number of poles installed.	On-Target	On-Target	On-Target	Proceeding as Plannes	urgency of the notifications. The 2023 GRC Final Decision, the Commission adopted a lower unit cost than PG&E forecasted, also contributing to the higher amount of actuals for this program. At this time PG&E has not forecasted how this program will proceed during the GRC timeframe.
17 Capital	Electric Distribution	E Dist Inst/Rep 07 Poles	OH Spx 07C Pol	ecial Criteria le Repl Wildfire	WLDFR-M013: Pole Programs - Replace Tree Attachments	Ex 4, Ch 12	No	N/A	N/A	3,150.4	15,717.4	12,567.0	398.9%	N/A	N/A	# of Poles	270	581	311	115.4%	N/A	. N/A	N/A	N/A	N/A	N/A	N/A	NA .
18 Capital	Electric Distribution	E Dist Inst/Rep 07 Poles	OH 07D Pol	le Repl SRM Total	SRM Total	Ex 4, Ch 12	No	On-going	Annual	352,006.1	333,775.8	(18,230.4	-5.2%	NO	NO	# of Poles	15,964	1 13,786	(2,178)	-13.6%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	I N/A
19 Capital	Electric Distribution	E Dist Inst/Rep 07 Poles	OH 07D Pol	Distribution Overhead	DOVHD-C011: Pole Programs	Ex 4, Ch 12	No	N/A	N/A	352,006.1	333,775.8	(18,230.4	-5.2%	N/A	N/A	# of Poles	15,964	1 13,786	(2,178)	-13.6%	N/A	. N/A	NA	N/A	N/A	N/A	N/A	NA .
20 Capital	Electric Distribution	E Dist Inst/Rep 07 Poles	OH 07D Pol	le Repl Wildfire	WLDFR-C12C: Pole Replacement	Ex 4, Ch 12	No	N/A I	N/A	352,006.1	333,775.8	(18,230.4	-5.2%	N/A	N/A	# of Poles	15,964	13,786	(2,178)	-13.6%	N/A	. N/A	N/A	N/A	N/A	N/A	N/A	NA
		E Dist Inst/Rep	OH Pol	le Joint Util SRM Total co Reimb (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 12										Not Unitized – The variety of work activities in this program makes it infeasible to identify	a											
21 Capital	electric Distribution	E Dist Inst/Rep				EX 4, Ch 12	No	On-going	Annual		0.0	0.0	100.0%	NO	NO	Not Unitized – The variety of work activities in this program makes it infeasible to identify	N/A	NA NA	NA	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planner	NA .
22 Capital	Electric Distribution	07 Poles	07L Stri	eel Lattice SRM Total (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 12	No	On-going	Annual		7.2	7.2	100.0%	NO	NO	single unit of measure.	a N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planner	I NA
23 Capital	Electric Distribution	E Dist Inst/Rep 07 Poles	OH Ove 07O Rep	erloaded Pole placements SRM Total	SRM Total	Ex 4, Ch 12	No	On-going	Annual	7,488.8	12,424.4	4,935.6	65.9%	NO	NO	# of Poles	262	2 304	42	16.1%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	I N/A
24 Capital	Electric Distribution	E Dist Inst/Reg 07 Poles	OH Ove 07O Rep	erloaded Pole Distribution placements Overhead	DOVHD-C011: Pole Programs	Ex 4, Ch 12	No	N/A	N/A	7,488.8	12,424.4	4,935.6	65.9%	N/A	N/A	# of Poles	262	2 304	42	16.1%	N/A	. N/A	N/A	N/A	N/A	N/A	N/A	N/A
25 Capital	Electric Distribution	E Dist Inst/Reg 07 Poles	OH Ove 07O Res	erloaded Pole placements Wildfire	WLDFR-C12D: Overloaded Pole Replacement	Ex 4, Ch 12	No	N/A	N/A	7,488.8	12,424.4	4,935.6	65.9%	N/A	N/A	# of Poles Not Unitized – This program	262	2 304	42	16.1%	N/A	NA NA	N/A	N/A	N/A	N/A	N/A	N/A
26 Capital	Electric Distribution	E Dist Inst/Rep 07 Poles	OH # Not	SRM Total t assigned (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 12	No	On-going	Annual		426.4	426.4	100.0%	NO	NO	has no measurable units because it is used to record costs.	N/A	N/A	NA	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program
27 Capital	Electric Distribution	E Dist Replace 08 Asset	OH Det 08J Cor	pl teriorated OH nductor SRM Total	SRM Total	Ex 4, Ch 13	No	On-going	Annual	44,888.1	17,008.8	(27,879.3	-62.1%	YES	YES	# of Circuit Miles	74	4 27	(47)	-63.6%	YES	Program expenditures were below imputed regulatory values due to reprioritization to System Hardening work in HFTD areas to reduce igniti fisk.	Actual program units were below imputed program units due to on reprioritization of the MWC to focus on System Hardening work (08W) in HFTD areas, to reduce ignition risk.	Under	Under	Under	Rescheduled	Ihis program's work is ongoing and wil continue in PG&E's 2022 GRC period. The purpose of this program is to replace deficiented Off conductor in non-HEID spirit to premature failure. For the remainder of the GRC cycle, PG&E anticipates that this program will continue to be lower priority than other work in Electric Distribution like wildfire miligation and capacity work.
28 Capital	Electric Distribution	E Dist Replace 08 Asset	OH Det 08J Cor	pl teriorated OH Distribution nductor Overhead	DOVHD-C004: Overhead Conductor Replacement	Ex 4, Ch 13	No	N/A	N/A	44,888.1	17,008.8	(27,879.3	-62.1%	N/A	N/A	# of Circuit Miles	74	4 27	(47)	-63.6%	N/A	. N/A	N/A	N/A	N/A	N/A	N/A	N/A
29 Capital	Electric Distribution	E Dist Replace 08 Asset	OH OBS Sw	place solete OH itches SRM Total	SRM Total	Ex 4, Ch 13	No	On-going	Annual	314.9	125.0	(189.9	-60.3%	NO	NO	# of Switches Installed/replaced	9	9 1	(8)	-89.2%	YES	Below variance threshold.	Actual program units were below imputed program units due to reprioritization of the MWC to focus on System Hardening work (08W) in HFTD areas, to reduce ignition risk.	On-Target	On-Target	On-Target	Proceeding as Planner	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to replace obsolete OH switches and minimize potential safety issues.
30 Capital	Electric Distribution	E Dist Replace 08 Asset	OH OBS Sw	place solete OH Distribution itches Overhead	DOVHD-M006: Grasshopper and KPF Switch Replacement	Ex 4, Ch 13	No	N/A	N/A	314.9	125.0	(189.9	-60.3%	N/A	N/A	# of Switches Installed/replaced	9	1	(8)	-89.2%	N/A	. N/A	NA	N/A	N/A	N/A	N/A	NA

	1																									
A	В	C1 C2	C3 C4	C5	C8	C7	D	E	F G	н		J	к	L	м	N	0 P	Q	R	s	т	U1	U2	U3	v	w
Type (O&M Expense Capital	Functional area (i)	MWC MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Prog Roll-up Proje (Yes/No) (ye	gram / ect Life pars) Proje	gram / Imputed ct Year Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Per Variance V: Explanation Exp Required (Y/N)	rcentage ariance planation equired (Y/N)	Unit Type	2023 Imputed A Adopted Units	2023 Different for 202 (# of Units (O-N)	Unit Percent Variance for 2023 (1) ((O-N)/N*10	Unit Varianos Explanatio Requires 0) (Y/N)	o 2023 on Cost di Variance Explanation	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
Capital	Electric Distributio	E Dist Replace OH	Wildfire Resiliency 08W/3UG projects	SRM Total	SRM Total	Ex 4, Ch 4.3	No On-goir	ng Annua	i 768,193.	1 1,091,088.1	322,895.0	42.0%	YES	YES	# of Circuit Miles	304	425	121 40.0%	YES	Program expenditures were above imputed regulatory values due to a higher volume of system hardening miles completed. The program executed militage in 2023 in alignment with what was submittled in the 2023 GRC and aligned with the 2023-2025 Wildlire Mitigation Plan; however the 2023 GRC Final Decision issued in November 2023 approx a lower volume of work to be completed, resulting in the overnuin 1023 of the completed resulting the completed resulting in the overnuin 1023 of the completed resulting the completed resulting in the overnuin 1023 of the complete of the completed resulting the overnuin 1023 of the complete of the completed resulting the overnuin 1023 of the complete of the complete of the completed resulting the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the co	Mitigation Plan; however the 2023 GRC Final Decision issued in November ad 2023 approved a lower volume of work to be completed, resulting in the	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PGAE's 2023 GRC period. The purpose of this p is to conduct System interings of writing missings. Since flings the 2023 GRC PGAE Expans recovering costs associated with this program to real MNO cost 20, so PGAE is containing if the containing it is containing the program of the MNO cost 20, so PGAE is containing if the Proceedings as Planned' because PGAE intends to manage the program according to the 2023 GR Docision.
Canital	Electric Dietributio	E Dist Replace OH	Wildfire Resiliency	Distribution	DOVHD-M002: System Hardening	Ex 4, Ch 4.3	No. N/A	N/A	768,193.	1 1,091,088.1	322,895.0	42.0%	N/A	N/A +	# of Circuit Miles	204	425	121 40.0%	N/A	N/A	MA.	N/A	N/A	N/A	N/A	N/A
Cupital	Encount Drawingsho	E Dist Replace OH	Wildfire Resiliency			Ex 4, Ch 4.3						42.0%	N/A			504		121 40.0%		IVO		N/A				
Capital	Electric Distributio	E Dist Replace OH	08W/3UG projects Wildfire Resiliency	Wildfre	VLDFR-M002: System Hardening		Yes NA	N/A	768,193.	1 1,090,579.8	322,386.7	42.0%	N/A	N/A #	of Circuit Miles	304	425	121 40.0%	N/A	NA	NA	N/A	N/A	N/A	N/A	N/A
Capital	Electric Distributio	n 08/3U Asset E Dist Replace OH	08W/3UG projects	Wildfire I	POST-GRC: Post-GRC Mitigation	Ex 4, Ch 4.3	Yes N/A	N/A		508.3	508.3	100.0%	N/A		Not Unitized – There is no applicable unit of measure for	N/A	N/A	N/A N/A	N/A	N/A	N	N/A	N/A	N/A	N/A	N/A
Capital	Electric Distributio	n 08 Asset	# Not assigned ED Line SCADA	(NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 13	No On-goir	ng Annua	-	(89.4)	(89.4)	-100.0%	NO		his program. Not Unitized – The variety of work activities in this program makes it infeasible to identify a	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Under	Proceeding as Planned	7. 147
Capital	Electric Distributio	n 09 & Protection	09A Inst/Repl	SRM Total (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 16	No On-goir	ng Annua		3.0	3.0	100.0%	NO		makes it infeasible to identify a single unit of measure. Not Unitized – The variety of	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planner	Inis Mn Code was not brecasted in the 222 cell. Electric Listendaria Line S-Laul, Install alia is now being brecast and recorded in MnT 48A. Although normial dollars were recorded here whe was pulled in January, this MnT code is not being used for specific program costs at this time.
Capital	Electric Distributio	E Dist Automation 09 & Protection	ED Sub SCADA/RTU 09B Replace	SRM Total	SRM Total	Ex 4, Ch 16	No On-goir	ng Annua	20,074.	1 16,713.0	(3,361.2)	-16.7%	NO	NO s	work activities in this program makes it infeasible to identify a single unit of measure.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planner	N/A
Capital	Electric Distributio	E Dist Automation 8 Protection	ED Sub SCADA/RTU 09B Replace	Distribution I Overhead I	DOVHD-C007: Supervisory Control and Data Acquisition	Ex 4, Ch 16	Yes N/A	N/A	20,074.	1 2,825.9	(17,248.2)	-85.9%	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capital	Electric Distributio	E Dist Automation 09 & Protection	ED Sub SCADA/RTU 09B Replace	Wildfire	VLDFR-M020: Enhanced Powerline Safety Settings	Ex 4, Ch 16	Yes N/A	N/A		13,887.1	13,887.1	100.0%	N/A	N/A	N/A Not Unitized – The variety of	N/A	N/A	N/A N/A	N/A	NA	NA	N/A	N/A	N/A	N/A	N/A
Capital	Electric Distributio	E Dist Automation 09 & Protection	ED Sub SCADA/RTU 09D Install	SRM Total	SRM Total	Ex 4, Ch 16	No On-goir	ng Annua	i 517.	7 421.7	(96.0)	-18.5%	NO		work activities in this program makes it infeasible to identify a single unit of measure.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planner	N/A
Capital	Electric Distributio	E Dist Automation 09 & Protection	ED Sub SCADA/RTU 09D Install	Distribution I Overhead I	DOVHD-C007: Supervisory Control and Data Acquisition	Ex 4, Ch 16	No N/A	N/A	517.	7 421.7	(96.0)	-18.5%	N/A	N/A	N/A Not Unitized – The society of	N/A	N/A	N/A N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA
Capital	Electric Distributio	E Dist Automation 09 & Protection	ED Sub Protect 09E Relay Inst/Repl	SRM Total	SRM Total	Ex 4, Ch 16	No On-goir	ng Annua	i 3,032:	9 226.4	(2,806.5)	-92.5%	NO		Not Unitized – The variety of work activities in this program makes it infeasible to identify a single unit of measure.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planner	N/A
Capital	Electric Distributio	E Dist Automation	ED Sub Protect 09E Relay Inst/Repl	Distribution I Overhead I	DOVHD-C007: Supervisory Control and Data Acquisition	Ex 4, Ch 16	No N/A	N/A	3,032	9 226.4	(2,806.5)	-92.5%	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	WA	N/A	N/A	N/A	N/A	NA
Capital	Electric Distributio	E Dist Automation	ED Sub SCADA Emergency 09F Repl	SRM Total	SRM Total	Ex 4, Ch 16	No On-goir	ng Annua	1 5,970.	5 11,181.5	5,211.0	87.3%	NO	,	Not Unitized – The variety of work activities in this program makes it infeasible to identify a single unit of measure.	N/A	N/A	N/A N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
Capital	Electric Distributio	E Dist Automation	ED Sub SCADA Emergency 09F Repl	Distribution I	DOVHD-C007: Supervisory Control and Data Acquisition	Ex 4, Ch 16	No N/A	N/A	5,970.	5 11,181.5	5,211.0	87.3%	N/A	N/A I	wa	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		E Dist Routine		SRM Total										ŀ	Not Unitized – This program has no measurable units because there is no standard					Program expenditures were above imputed regulatory values due to high cost escalation than expected and a substantially higher volume of emergency work in 2023. The higher volumes of emergency work was largely due to a special emphasis placed in 2023 on identifying &	ier .					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this is to address routine emergencies and continions in the field that require immediate attention. PG& expects to continue to spend more on this program than forecasted in order to address deteriorate.
Capital	Electric Distributio	17 Emergency	N/A Not assigned	(NON-RAMP)	RM Total (NON-RAMP)	Ex 4, Ch 6 Ex 4, Ch 4.1 Ex 4, Ch 4.2 Ex 4, Ch 4.3	No On-goir	ng Annua	1 249,483.	0 395,409.8	145,926.8	58.5%	YES	YES	nit of measure.	N/A	N/A	N/A N/A	NO	salgey use of a special eliginasis piace of it zozo sit itempring a addressing deteriorated OH Service Conductor in HFTD.	Not unitized. Actual program units were below imputed program units due to two factors: 1) through 2022, weather stations were installed ahead of plan allowing for a scale back of program units in 2023, and 2) costs for	Over	Over	Over	Emergent	Service Conductors in HFTDs as a routine emergency, as noted in the cost variance explanation. This program's work is encoine and will continue in PG&E's 2023 GPC period. The purpose of this
Capital	Electric Distributio	n 21 Misc Capital	N/A Not assigned	SRM Total	SRM Total	Ex 4, Ch 5 Ex 4, Ch 20-22 Ex 4, Ch 4.1	No On-goir	ng Annua	1 28,274.	9 33,687.6	5,412.7	19.1%	NO	NO s	# of Weather Stations	150	102	(48) -32.0%	YES	Below variance threshold.	environmental and federal land permitting has increased since the GRC was forecasted; therefore fewer program units were completed for the costs allocated.	On-Target	On-Target	On-Target	Proceeding as Planned	It is program and/or brighing at an interest of program and the second program includes costs for activities that enable electric operations. This program includes costs for activities the Emergency Operating Centers (EOCs), facilities upgrades, if enhancements, and Applied Tec. Services (ATS) lab safety and upgrades. PG&E is on target in this program for the 2023 GRC cycle of the control of t
Capital	Electric Distributio	n 21 Misc Capital		Emergency Preparedness I		Ex 4, Ch 4.2																				
			N/A Not assigned	& Response	PNDR-C002: Situational Awareness and Forecasting Initiatives - WSOC	Ex 4, Ch 4.3 Ex 4, Ch 5 Ex 4, Ch 20-22	Yes N/A	N/A	113.	1 21.2	(91.9)	-81.2%	N/A	N/A I	WA	N/A	N/A	N/A N/A	N/A	NA	NA	N/A	N/A	N/A	N/A	N/A
Capital			N/A Not assigned	Emergency		Ex 4, Ch 5	Yes N/A	N/A	113.	1 21.2	(91.9)	-81.2%	N/A	N/A I	WA	N/A	N/A	N/A N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
	Electric Distributio	n 21 Misc Capital	N/A Not assigned	Emergency		Ex 4, Ch 5 Ex 4, Ch 20-22 Ex 4, Ch 4.1 Ex 4, Ch 4.2 Ex 4, Ch 4.3 Ex 4, Ch 5 Ex 4, Ch 20-22 Ex 4, Ch 4.1 Ex 4, Ch 4.1	Yes N/A Yes N/A	N/A	3,582	9 1,471.8	(91.9)	-81.2% -58.9%	N/A N/A	N/A P	WA	N/A N/A	N/A	NA NA	N/A	NA NA	NA NA	N/A	N/A	N/A N/A	N/A N/A	NA NA
Capital	Electric Distributio	n 21 Misc Capital		Emergency Preparedness I & Response Emergency Preparedness		Ex 4, Ch 5 Ex 4, Ch 20-22 Ex 4, Ch 4.1 Ex 4, Ch 4.2 Ex 4, Ch 4.3 Ex 4, Ch 5 Ex 4, Ch 4.1 Ex 4, Ch 4.1 Ex 4, Ch 4.2 Ex 4, Ch 4.3 Ex 4, Ch 5 Ex 4, Ch 5 Ex 4, Ch 5 Ex 4, Ch 6.5 Ex 4, Ch 6.5 Ex 4, Ch 6.4.2 Ex 4, Ch 6.5 Ex 4, Ch 6.4.1	Yes NA Yes NA Yes NA	N/A N/A	3,582. 2,235.	9 1,471.8 6 4,574.6	(2,111.1)	-81.2% -58.9% 104.6%	N/A N/A	N/A P	WA WA	N/A N/A	N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A	NA.	NA NA	N/A N/A	N/A N/A	N/A N/A	N/A N/A	NA NA
Capital Capital			N/A Not assigned	Emergency Preparedness & Response Emergency Preparedness & Response	EPNDR-C004: EP&R Field Operations enhanced by the section of the s	Ex.4, Ch.5 Ex.4, Ch.20-22 Ex.4, Ch.4.1 Ex.4, Ch.4.2 Ex.4, Ch.4.3 Ex.4, Ch.5 Ex.4, Ch.5 Ex.4, Ch.5 Ex.4, Ch.4.1 Ex.4, Ch.4.3 Ex.4, Ch.5 Ex.4, Ch.4.1 Ex.4, Ch.4.1 Ex.4, Ch.4.1 Ex.4, Ch.4.1 Ex.4, Ch.4.1 Ex.4, Ch.4.1 Ex.4, Ch.5 Ex.4, Ch.5 Ex.4	Yes NA Yes NA Yes NA	N/A N/A	3,582 2,235	1 21.2 9 1.471.8 6 4.574.6	(2.111.1) 2.339.1	-81.2% -58.9% 104.6%	N/A N/A	N/A P	WA WA	N/A N/A N/A	N/A N/A	NA NA NA	N/A N/A N/A	NA NA NA	NA NA NA	N/A N/A N/A	N/A N/A	N/A N/A N/A	N/A N/A N/A	NA NA NA
Capital Capital		n 21 Misc Capital	N/A Not assigned N/A Not assigned N/A Not assigned	Emergency Preparedness & & Response Emergency Preparedness & & Response	EPNDR-C004: EP&R Field Operations Sectorology EPNDR-M000: EP&R Mitigations VLDFR-M000: PSPS Reduction initiatives	Ex 4, Ch 5 Ex 4, Ch 20-22 Ex 4, Ch 4.1 Ex 4, Ch 4.2 Ex 4, Ch 4.3 Ex 4, Ch 5 Ex 4, Ch 4.3 Ex 4, Ch 5 Ex 4, Ch 4.1 Ex 4, Ch 4.2 Ex 4, Ch 4.3 Ex 4, Ch 5 Ex 4, Ch 4.3 Ex 4, Ch 5 Ex 4, Ch 4.1 Ex 4, Ch 4.2 Ex 4, Ch 4.1 Ex 4, Ch 4.1 Ex 4, Ch 4.1 Ex 4, Ch 4.1 Ex 4, Ch 4.2 Ex 4, Ch 5	Yes NA Yes NA Yes NA Yes NA	N/A N/A N/A	2,235.	1 21.2 9 1,471.8 6 4,574.6	(91.9) (2.111.1) 2.339.1	-81.2% -58.9% -58.9% -08.2%	N/A N/A	N/A P	WA WA	N/A N/A N/A	N/A N/A	NA NA NA	N/A N/A N/A	NA. NA. NA.	NA NA NA	N/A N/A	N/A N/A N/A	N/A N/A N/A	NA NA	NA NA NA
Capital		n 21 Misc Capital	N/A Not assigned	Emergency Preparedness 8 Response Emergency Preparedness 8 Response Wildlire	EPNOR-CO04: EP&R Field Operations exhibitions EPNOR-MO00: EP&R Miligations FPNOR-MO00: PSPS Reduction initiations VLDFR-MO08: PSPS Reduction initiations of Forecasting initiations. Weather labels	E4 (n 5 E4 (n 16 E4 (n 16 E4 (n 16 E4 (n 14 E4 (n 16 E4 (Yes NA Yes NA Yes NA Yes NA Yes NA	N/A N/A N/A	113. 3.582. 2.235. 277.	1 21.2 9 1.471.8 6 4.574.6 0 5.0	(91.9) (2.111.1) 2.339.1 (272.0)	-81.2% -58.9% -58.9% -08.2% -08.2%	N/A N/A	N/A P	WA WA WA WA If of Weather Stations	N/A N/A N/A 150	N/A N/A N/A 102	NA N	NA NA NA	NA NA NA	NA NA NA	NA NA NA	N/A N/A N/A	NA NA NA	NA NA NA	NA NA NA
Capital Capital	Electric Distributio	n 21 Misc Capital	N/A Not assigned N/A Not assigned N/A Not assigned	Emergency Preparedness is Response Emergency Preparedness is Response Emergency Preparedness is Response is Resp	EPNOR-COO4: EPAR Field Operations controlling: EPNOR-MOO0: EPAR Miligations EPNOR-MOO0: EPAR Miligations VILDER-MOO0: PSPS Reduction initiatives VILDER-MOO0: Structural Austrances and Forecasting Initiatives - Weather States	E4 (n 5 6 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Yes NA Yes NA Yes NA Yes NA Yes NA Yes NA	N/A N/A N/A N/A	2,235.	1 212 9 1.471.8 6 4.574.6 0 5.0	(91.9) (2.111.1) (2.339.1) (272.0) (368.7)	48.2% -48.9% 104.6% -48.2% -48.2%	N/A N/A	N/A 2	NA NA NA VA I of Weather Stations	N/A N/A N/A 150	NA NA NA NA NA NA NA	NA	NA NA NA NA	NA. NA. NA. NA. NA.	NVA NVA NVA NVA NVA	N/A N/A	N/A N/A N/A N/A	NA NA NA NA	NA NA	NIA NIA NIA
Capital Capital Capital	Electric Distributio	1 21 Misc Capital 1 21 Misc Capital 2 Misc Capital 3 21 Misc Capital	N/A Not assigned N/A Not assigned N/A Not assigned	Emergency Preparedness I & Response Emergency Preparedness & Response Wildfre Wildfre Wildfre	EPHOR CODAL EPHR Field Operations interestingly EPHOR A0000: EPHR Miligations PHOR A0000: EPHR Miligations PHOR A0000: EPHR Miligations PHOR A0000: EPHR Miligations PHOR A0000: EPHR Miligations IN EFFAMOVE. Situational Assessments and Forecasting Initiatives - Sensor IO PHOR A0007: Situational Assessments and Forecasting Initiatives - Sensor IO PHOR A0007: Situational Assessments Of Forecasting Initiatives - Partial Miligant Militations - Partial Militations - Partial	E4. (n. 5) E4. (n. 14) E4. (n. 16) E4. (n. 14) E4. (n.	Yes NA	NIA NIA NIA NIA NIA	2,235. 277. 3,567.	1 212 9 1.471.8 6 4.574.6 0 5.0 1 3.955.8	(91.5) (2.111.1) (2.339.1) (272.0) (388.7) (11.119.0)	-58.9% 104.6% -98.2%	N/A N/A N/A	N/A P	WA WA WA Followeather Stations	NIA NIA NIA NIA NIA NIA NIA	NA NA NA NA NA NA NA NA	NA	NA NA NA NA NA	NA NA NA NA	NA NA NA NA NA	N/A N/A N/A	N/A N/A	NA NA NA	N/A N/A N/A	NA NA NA NA NA
Capital Capital Capital	Electric Distributio	n 21 Misc Capital 21 Misc Capital 21 Misc Capital	NVA Not assigned	Emergency Preparedness I & Response Emergency Preparedness I & Response United I Wildire Wildire Wildire Wildire	EPHOR CODAL EPAR Field Operations feel tredingly [PHOR ADDOL EPAR Militagations [PHOR ADDOL EPAR Militagations WLDFRAMODE PSPS Reduction national managements of forecasting initiatives - Western Station PLOF AMODE Situational Assertments and Forecasting initiatives - Second Operational Assertments of Forecasting initiatives - Parial violage Debtons: Parial violage Debtons: Parial Violage Debtons: Parial Violage Debtons of Forecasting Initiatives - Parial Violage Debtons of Fore	E4. 0.5 E4. 0.75 E4. 0.741 E4. 0.742 E4. 0.743	Yes NA	N/A N/A N/A N/A N/A N/A N/A N/A	2,235. 277. 3,567.	1 212 9 1.471.8 6 4.574.6 0 5.0 1 3.965.8 0 (0.0)	(91.9) (2.111.1) 2.339.1 (272.0) 368.7 (11.119.0)	-68.9% 104.6% -68.2% -10.3%	N/A N/A N/A	NIA P	NA NA NA F of Weather Stations NA NA	NIA NIA NIA NIA NIA NIA NIA NIA	NA NA NA NA NA NA NA NA NA	NA N	NA NA NA NA NA NA	NA NA NA NA NA NA NA	NVA	N/A N/A N/A	N/A N/A	NA NA NA	NA NA NA NA	NA NA NA NA NA NA NA
Capital Capital Capital	Electric Distributio Electric Distributio Electric Distributio Electric Distributio Electric Distributio	n 21 Misc Capital 21 Misc Capital 21 Misc Capital 22 Misc Capital 3 21 Misc Capital	N/A Not assigned	Emergency Preparedness 1 A Response Emergency Emergency Wildire Wildire Wildire Wildire	EPHORACOM: EPAR Field Operations rectanology [PHORAGOM: EPAR Miligations [PHORAGOM: EPAR Miligations VILDERAMOR: PSPS Reduction nitiations VILDERAMOR: Situational Awareness and Forecasting Initiations. With the Machine Committee of the Committee of Parameters (Parameters) in the Co	E4. 0.5 E4. 0.10 E4. 0.10 E4. 0.14 E4. 0.16 E4.	Yes NA	NIA NIA NIA NIA NIA NIA NIA	2,235. 277. 3,587.	1 212 9 1.471.8 6 4.574.6 0 5.0 1 3.955.8 0 (0.0)	(21.11.1) (2.111.1) (2.339.1) (272.0) (11.119.0) (11.119.0) (283.3)	-58.9% 104.6% -68.2% -10.3% -100.0%	NIA NIA NIA NIA NIA NIA NIA	NA 7 1 NA 7 NA 7 NA 7 NA 7 NA 7 NA 7 NA	WA WA WA WA WA WA WA WA	NIA	N/A N/A N/A 102 N/A N/A	NA	NA NA NA NA NA	NA. NA. NA. NA. NA. NA. NA.	NVA NVA NVA NVA NVA NVA NVA	NVA NVA NVA NVA NVA NVA	N/A N/A N/A N/A N/A	NA NA NA NA NA NA	NA NA NA NA NA NA	NIA NIA NIA NIA NIA NIA
Capital Capital Capital Capital Capital	Electric Distributio Electric Distributio Electric Distributio Electric Distributio Electric Distributio	n 21 Misc Capital 21 Misc Capital 21 Misc Capital 22 Misc Capital 3 21 Misc Capital	NVA Not assigned	Emergency Preparedness 1 A Response Emergency Preparedness Emergency Wildire Wildire Wildire Wildire Wildire	EPHOR-COOL: EPÄR Field Operations inclunioning [PHOR-MOOL: EPÄR Miligations [PHOR-MOOL: EPÄR Miligations [PHOR-MOOL: EPÄR Miligations VILDER-MOOL: Situational Asserteds of Forecasting Initiatives - Weather Labor VILDER-MOOT: Situational Asserteds of Forecasting Initiatives - Partial Miligations VILDER-MOOT: Situational Asserteds of Forecasting Initiatives - Partial Miligations - Partial Military - Military	E. 4. On 5 E. 4. On 2022 E. 4. On 41 E. 4. On 42 E. 4.	Yes NA	NIA	2,235. 277. 3,587.	1 212 9 1.471.8 6 4.574.6 0 5.0 1 3.955.8 0 (0.0) 7 904.4 2 6.1	(21.11.1) 2.330.1 (272.0 360.7 (11.110.0 0.1 (260.1)	-58.9% 104.6% -68.2% -10.3% -100.0%	NIA NIA NIA NIA NIA NIA	NA 7	WA	N/A	NA NA NA NA NA NA	NA	NA NA NA NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA NA NA	NA NA NA NA	N/A N/A	NA NA NA NA	N/A N/A N/A N/A	NA
Capital Capital Capital	Electric Distributio Electric Distributio Electric Distributio Electric Distributio Electric Distributio	Misc Capital 21 Misc Capital 21 Misc Capital 22 Misc Capital 3 21 Misc Capital 3 21 Misc Capital	NVA Not assigned	Emergency Preparedness 1 Response Response Emergency Emergency Widdre Widdre Widdre Widdre	EPHOR CODA E PAR Field Operations fectivology EPHOR A0000 EPAR Milligations FINDRAMO00 States of Milligations FINDRAMO00 States of Milligations FINDRAMO00 States of Milligations FINDRAMO00 EPAR Milligations FINDRAMO00 States of Milligations FINDRAMO00 EPAR Milligations FINDRAMO00 EPAR Milligations FINDRAMO00 States and Milligations FINDRAMO00 Community Widdite FINDRAMO00 Community Widdite FINDRAMO00 Community Widdite	E4. 0.5 E4. 0.14 E4.	Yes NA	NIA NIA NIA NIA NIA NIA NIA NIA	2,235. 277. 3,587.	1 212 9 1.471.8 8 4.574.6 0 5.0 1 3.955.8 0 (0.0) 7 904.4 2 6.1	(91.9) (2.111.1) (2.339.1) (272.0) (368.7) (11.119.0) (283.3) (256.1)	-58.9% 104.6% -68.2% -10.3% -100.0%	NIA NIA NIA NIA NIA NIA NIA	NA 7 7 NA	WA W	N/A N/A N/A N/A N/A N/A N/A N/A N/A	NA	NA	NA NA NA NA NA NA NA NA	NA	NVA	NVA NVA NVA NVA NVA NVA	N/A N/A N/A N/A N/A	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA
Capital Capital Capital	Electric Distributio Electric Distributio Electric Distributio Electric Distributio Electric Distributio	n 21 Misc Capital 21 Misc Capital 21 Misc Capital 21 Misc Capital 3 21 Misc Capital 3 21 Misc Capital	NVA Not assigned	Emergency Preparedness 1 & Response Emergency Preparedness 4 Response Widdre Widdre Widdre Widdre Widdre	EPHOR-ADDA: EPAR Field Operations incidenticity EPHOR-ADDO: EPAR Militarions EPHOR-ADDO: EPAR Militarions VILDEFAMORE PSPS Reduction intiations VILDEFAMORE PSPS Reduction disables and forecasting intimities - Weather lates VILDEFAMORE Situational Assessment of Forecasting Intimities - Weather lates VILDEFAMORE Situational Assessment of Forecasting Intimities - Perial lates and Forecasting Intimities - Perial lates -	E4. 0.5 E4. 0.10 E5.	Yes NA	NIA	2,235. 277. 3,587.	1 212 9 1.471.8 8 4.574.6 0 5.0 1 3.955.8 0 (0.0) 0 1, 7 904.4 2 6.1 12,915.1	(283.3)	-58.9% 104.6% -68.2% -100.0% -100.0% -23.9%	NIA NIA NIA NIA NIA NIA NIA	NA 7	WA	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	NA	NA NA NA NA NA NA NA NA	NA	NA N	NVA NVA NVA NVA NVA NVA	N/A N/A N/A N/A N/A	NA NA NA NA NA NA	NA NA NA NA NA NA	NIA NIA NIA NIA NIA NIA NIA NIA
Capital Capital Capital Capital Capital	Electric Datributio Electric Datributio	Misc Capital 21 Misc Capital 22 Misc Capital 23 Misc Capital 24 Misc Capital 25 Alisc Capital 26 Alisc Capital 27 Misc Capital 28 Alisc Capital 29 Misc Capital 20 Misc Capital	NVA Not assigned	Emergency Preparedonss 1 & Response Emergency Preparedonss & Response Wadfre Wadfre Wadfre Wadfre Wadfre Wadfre	EPHOR-ADDA: EPAR Field Operations incidenticity EPHOR-ADDO: EPAR Militarions EPHOR-ADDO: EPAR Militarions VILDEFAMORE PSPS Reduction intiations VILDEFAMORE PSPS Reduction disables and forecasting intimities - Weather lates VILDEFAMORE Situational Assessment of Forecasting Intimities - Weather lates VILDEFAMORE Situational Assessment of Forecasting Intimities - Perial lates and Forecasting Intimities - Perial lates -	E4. 0.5 E4. 0.7 202 E4. 0.141 E4. 0.7 202 E4. 0.141 E4. 0.142 E4. 0.141 E4. 0.142 E4. 0.143 E4.	Yes NA Yes NA	NIA	2,235. 277. 3,587.	2 6.1	0.1 (283.3) (256.1) 12.915.1	-58.9% 104.6% -08.2% -10.0% -100.0% -23.9% -97.7%	NIA NIA NIA NIA NIA NIA NIA	NA	WA	NVA	NA	NA N	NA NA NA NA NA NA NA	NA	NVA	NEA NEA NEA NEA NEA NEA NEA NEA NEA	N/A N/A N/A N/A N/A N/A	NA NA NA NA NA NA	N/A N/A N/A N/A N/A N/A N/A	NA NA NA NA NA NA NA NA NA

A	E		C1 C2	C3 C4	CS	C8	C7	D	E	F	G	н	1	J	к	L	м	N	. 0	Р	Q		R	s	Т	U1	U2	U3	v	w
Type (O&M Expense Capital	or An	ional M	IWC MWC Name	MAT MAT Nan	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	Unit Type	20. Impi Adoj Un		Difference for 2023 (# of Units) (O-N)	Unit Percent Variance for 2023 (% ((O-N)/N*10	Expla	Unit riance anation quired Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	2AA OH Genl Re	pl SRM Total	SRM Total	Ex 4, Ch 11	No O	On-going .	Annual	138,779.5	291,909.6	153,130.1	110.3%	YES	YES	# of Notifications Corr	pleted	19,548 20,	136 588	B 3.0%	N	Pro volu GR NO uni	gram expenditures were above imputed regulatory values due to higher ume of units completed at higher unit costs than adopted in the 2023 C Final Decision. PG&E's actual unit cost remain higher than imputed toosts driven by the higher labor costs for this work.	Below variance threshold.	On-Target	On-Target	Over	Proceeding as Plann	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of the prog- to replace deferiorated overhead facilities that are not an imminent hazard, and have not caused an out fleeting the program of th
Canital	Electric Di	etribution	E Dist Inst/Repl Of	I 2AA OH Geni Re	Distribution Overhead	DOVHD-C003: Equipment Maintenance and Replacement - Distribution Overhead	Ex 4, Ch 11	No. N	WA.	N/A	138,779.5	201 909 6	153 130 1	110 3%	N/A	N/A	# of Notifications Com	mieteri	19 548 20	136 586	8 3.0%	N.	N/A N/A		M/A	N/A	N/A	N/A	N/A	N/A
Оцина	Excessio Ex	AIII CARONI	E Dist Inst/Repl Of			WLDFR-C008: Equipment Maintenance and Replacement - Distribution Overhead		100	**			231,303.0	100,100.1	110.0%	167	100	w of realisations con	pictod	15,545	500	0.0%					16/3	NA.	NA.		
Capital	Electric Di	stribution	2A General E Dist Inst/Repl Of	2AA OH Genl Re	pl Wildfre	Distribution Overhead	Ex 4, Ch 11	No N	WA I	N/A	138,779.5	291,909.6	153,130.1	110.3%	N/A	N/A	# of Notifications Com	pleted	19,548 20,	136 588	8 3.0%	N	N/A N/A	A Committee Bankel	NA Actual program units were below imputed program units due to prioritizing the completion of high priority B-Tags within MWC 2A. Additionally there	N/A	N/A On-Target	N/A On Towns	N/A	NIA This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of the pro to perform capital modifications to bird-safe incident and/or adjacent potes in response to a bird electrocution, per US Fish and Wildlife Services (USFWS) requirements and utility operating standar
Сарна	Electric Di	SUIDUIDUI	E Dist Inst/Repl Of	Bird Safe	Distribution	DOVHD-C003: Equipment Maintenance and Replacement -	EX 4, GITI	NO C	Jirguing	Allinai	3,023.2	2,016.7	(1,004.0,	144.370	NO	NO	# Of Notifications Con	pieteu	507	407 (500	57.5%		Del	ow variance uneshold.	was a lower find rate of bird-safe notifications for this program in 2023.	OFFIAGE	Orriages	Oil-laiget	Proceeding as Plant	ed S2321. Spending in this program is based on find rates and the prioritization of tags within the 2A MI
Capital	Electric Di	stribution	2A General	2AB Inst/Repl	Overhead	Distribution Overhead	Ex 4, Ch 11	No N	WA I	N/A	3,623.2	2,018.7	(1,604.6)	-44.3%	N/A	N/A	# of Notifications Con	pleted	967	107 (560	0) -57.9%	N	N/A N/A	A	NA	N/A	N/A	N/A	N/A	N/A
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	Bird Safe 2AB Inst/Repl	Wildfire	WLDFR-C011: Animal Abatement	Ex 4, Ch 11	No N	WA I	N/A	3,623.2	2,018.7	(1,604.6)	-44.3%	N/A	N/A	# of Notifications Com	pleted	967	107 (560	0) -57.9%	N	N/A N/A	Λ	N/A	N/A	N/A	N/A	NA	N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of the pro-
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	Bird Safe Inst/Repl 2AC Annual	SRM Total	SRM Total	Ex 4, Ch 11	No O	On-going .	Annual	3,770.4	1,728.4	(2,042.1)	-54.2%	NO	NO	# of Notifications Corr	pleted	978	296 (682	2) -69.7%	Yi	rES Bel	low variance threshold.	Actual program units were below imputed program units due to prioritizing the completion of high priority B-Tags within MWC 2A. Additionally there was a lower find rate of bird-safe notifications for this program in 2023.	On-Target	On-Target	On-Target	Proceeding as Plann	to perform capital modifications to brief-safe incident and/or adjacent jobes in response to a bird electrocution, per US Fish and Wildlife Services (USFWS) requirements and utility operating standard eld S2321. Spending in this program is based on find rates and the prioritization of tags within the 2A Mil
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	I Inst/Repl 2AC Annual	Wildfre	WLDFR-C011: Animal Abatement	Ex 4, Ch 11	No N	WA I	N/A	3,770.4	1,728.4	(2,042.1)	-54.2%	N/A	N/A	# of Notifications Com	pleted	978	296 (682	2) -69.7%	N	N/A N/A		N/A	N/A	N/A	N/A	N/A	NA
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	2AE OH COE Re	pl SRM Total	SRM Total	Ex 4, Ch 11	No O	On-going	Annual	29,330.1	65,524.3	36,194.2	123.4%	YES	YES	# of Notifications Com	pleted	823 1,	031 208	8 25.3%	Y	Pro high	ogram expenditures were above imputed regulatory values due to the her volume of tags completed, increased unit costs, and increased sts associated with the types of facilities addressed in 2023.	Actual program units were above imputed program units because PG&E needed to complete more program units to improve customer reliability and prevent outages.	On-Target	On-Target	On-Target	Proceeding as Plann	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this pr is to identify equipment (through failure/inspections) that impacts the reliability of system operations and Spending in this program is based on find rales and the prioritization of tags within the MWC 2A.
Capital	Electric Di	stribution	E Dist Inst/Repl Of General	2AE OH COE Re	Distribution pl Overhead	DOVHD-C003: Equipment Maintenance and Replacement - Distribution Overhead	Ex 4, Ch 11	No N	wa i	N/A	29,330.1	65,524.3	36,194.2	123.4%	N/A	N/A	# of Notifications Com	pleted	823 1,	031 208	8 25.3%	N	N/A N/A	N	WA	N/A	N/A	N/A	N/A	N/A
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	OH Idle Fac	lity SRM Total	SRM Total	Ex 4, Ch 11	No O	On-going	Annual	2,843.7	9,538.3	6,694.6	235.4%	NO	NO	# of Locations		323 1,	005 682	2 211.3%	YE	rES Bel	low variance threshold.	Actual program units were above imputed program units because Idle facility completions are part of PG&E's commitment to wildfire mitigation. More program units were completed to mitigate fire risk.	Over	Over	Over	Proceeding as Plann	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this pr is to identify ownhead idle facilities for removal based on investigations, and take appropriate remedia measures. In the 2023 GRC cycle, PG&E expects to continue to spend more and achieve more unit ed imputed because it is an important wildfire mitigation.
Capital	Electric Di	stribution	E Dist Inst/Repl Oil 2A General	OH Idle Fac 2AF Remove	lity Distribution Overhead	DOVHD-C003: Equipment Maintenance and Replacement - Distribution Overhead	Ex 4, Ch 11	No N	wa i	N/A	2,843.7	9,538.3	6,694.6	235.4%	N/A	N/A	# of Locations		323 1,	005 682	2 211.3%	N	wa w	\	NA	N/A	N/A	N/A	N/A	N/A
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	OH Idle Fac 2AF Remove	lity Wildfire	WLDFR-C008: Equipment Maintenance and Replacement - Distribution Overhead	Ex 4, Ch 11	No N	wa I	N/A	2,843.7	9,538.3	6,694.6	235.4%	N/A	N/A	# of Locations		323 1,	005 682	2 211.3%	N	N/A N/A	A	N/A	N/A	N/A	N/A	N/A	N/A
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	SF Series	SRM Total	SRM Total	Ex 4, Ch 11	No	12	11	2.594.9	280.8	(2.314.1)	-89.2%	NO	NO	Not Unitized – This p has no measurable un because there is no s unit of measure.	nits	N/A	wa N/a	N/A	N	NO Bel	low variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Plann	ed IN/A
			E Dist Inst/Repl Of	SF Series	Distribution	DOVHD-M007: Regulated Output							,,,,																	
Capital	Electric Di	stribution	2A General	2AG Streetlights	Overhead	Streetlight Replacement	Ex 4, Ch 11	No N	WA I	N/A	2,594.9	280.8	(2,314.1)	-89.2%	N/A	N/A	N/A		N/A	WA N/A	N/A	N	N/A N/A		N/A Actual program units were below imputed program units because	N/A	N/A	N/A	N/A	NIA This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this pr is to replace PG&E's LS-1 non-decorative streetlights with Light Emitting Diode (LED) fixtures and ne
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	2AH Streetlights	SRM Total	SRM Total DOVHD-C003: Equipment	Ex 4, Ch 11	No O	On-going	Annual	7,379.7	608.9	(6,770.8)	-91.7%	NO	NO	# of Streetlights		8,000	392 (7,608	95.1%	Y	rES Bel	low variance threshold.	resources were diverted to higher priority work within MWC 2A like wildlire mitigation work in MAT 2AA.	Under	Under	Under	Rescheduled	photocells. PG&E expects that this program will continue to be lower priority than other work in MW the remainder of the GRC cycle.
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	LED 2AH Streetlights	Distribution Overhead	Maintenance and Replacement - Distribution Overhead	Ex 4, Ch 11	No N	WA I	N/A	7,379.7	608.9	(6,770.8)	-91.7%	N/A	N/A	# of Streetlights		8,000	- (8,000	0) -100.0%	N	NA NA	Λ	NA	N/A	N/A	N/A	NA	NA
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	SF Historica 2AI Streetlights	I SRM Total	SRM Total	Ex 4, Ch 11	No O	On-going	Annual	1.038.0	8.0	(1.030.0	-99.2%	NO	NO	Not Unitized – This p has no measurable un because there is no s unit of measure.	nits	N/A	wa N/a	N/A	N	NO Bel	low variance threshold.	Not unitized.	On-Target	Under	Under	Rescheduled	This program's work is ongoing and will continue in PG&Es 2023 GRC period. The purpose of this pr is to replace or refulpiths cast-froi not eccratise streetlights in the Gdden Triangle/Inion Square area of Francisco that have been found to have corroded steel support poles. PG&E expects that this progra continue to be lower priority than other work in MWC 2A for the remainder of the GRC cycle.
			E Dist Inst/Repl Of	SF Historica		DOVHD-C003: Equipment Maintenance and Replacement -																								
Capital	Electric Di	stribution	2A General	2AI Streetlights CWSP Non	Overhead	Distribution Overhead	Ex 4, Ch 11	No N	WA I	N/A	1,038.0	8.0	(1,030.0)	-99.2%	N/A	N/A	N/A		N/A	WA N/A	A N/A	N	pro was	A gram expenditures were above imputed regulatory values due to this gram was forecasted in MAT ZAP but recorded in MAT ZAJ. MAT ZAJ s created in 2022 for greater visibility for the non-exempt expulsion see. All non-exempt expulsion lases work was conducted in MAT ZAJ in the conducted in MAT ZAJ in the conducted in MAT ZAJ in the conducted in MAT ZAJ in the conducted in MAT ZAJ in the conducted in MAT ZAJ in the conducted in MAT ZAJ in the conducted in MAT ZAJ in the conducted in MAT ZAJ in the conducted in the conducted in MAT ZAJ in the conducted in the co	NAA Actual program units were above imputed program units because 1) the program units were imputed in 2AP, 2) PG&E conducted more program units than imputed because of WMP commitments, and 3) PG&E was able to do the additional program units at allower units at allower unit cost than imputed	N/A	N/A	N/A	N/A	NVA This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this pro is non-exempt lase replacement for the purpose of miligating wildfer risks. During the 2023 GRC PG&E will continue to expedde the replacement of non-exempt fases (which are located in HFD) are PG&E will continue to expedde the replacement of non-exempt fases (which are located in HFD) are
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	ExemptFus 2AJ (a) placement	SRM Total	SRM Total	Ex 4, Ch 11 Ex 4, Ch 4.3	No O	On-going	Annual		18,271.0	18,271.0	100.0%	NO	YES	# of Locations		- 3,	3,144	4 100.0%	Y	202 (ES in 2	23 and costs were within the variance threshold if the imputed amounts DAP are considered.	because of efforts to negotiate vendor contract to provide more work, which were bundled for higher efficiency.	Over	Over	Over	Proceeding as Plann	mitigation ignition risks. Note that this program was imputed in MAT 2AP but recorded here in MAT 2 see variance explanations for more details.
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	CWSP Non ExemptFus 2AJ placement	Re Distribution Overhead	DOVHD-M004: Expulsion Fuse Replacement	Ex 4, Ch 11 Ex 4, Ch 4.3	No N	WA I	N/A		18,271.0	18,271.0	100.0%	N/A	N/A	N/A		N/A	WA N/A	N/A	N	NA NA	1	N/A	N/A	N/A	N/A	N/A	NA
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	CWSP Non ExemptFus 2AJ placement	Re Wildfire	WLDFR-M004: Expulsion Fuse Replacement	Ex 4, Ch 11 Ex 4, Ch 4.3	No N	WA I	N/A		18,271.0	18,271.0	100.0%	N/A	N/A	N/A		N/A	wa N/A	A N/A	N	NA NA		NA	N/A	N/A	N/A	N/A	N/A
			E Dist Inst/Repl Of	I OH CAP			Ex 4, Ch 11																fusi cor	ntinue to record work other than expulsion fuse replacements, ecasted in 2AP, to this program like Non-Wood Streetlight Pole	t Actual program units were below imputed program units because the unitized work for non-exempt fuses, was forecast in MAT 2AP, however they were recorded in MAT 2AL. The work remaining on 2AP is not					This program's work is ongoing and will continue in PG&E's 2023 GRC period. This work was forecas MAT ZAP but recorded to MAT ZAL. PG&E will continue to record work, other than expulsion but replacements, becreasted in ZAP, but his program like Non-Wood Streetilgth Pole Replacements and
Capital	Electric Di	stribution	2A General	2AP (a) Projects	SRM Total	SRM Total	Ex 4, Ch 4.3	No O	On-going i	Annual	17,835.4	1,808.1	(16,027.3)	-89.9%	NO	YES	# of Locations		1,186	- (1,186	-100.0%	Y	rES Rep	placements and costs for equipment with access issues.	unitized; see completion status statement for additional details.	Under	On-Target	Under	Proceeding as Plann	ed for equipment with access issues.
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	OH CAP 2AP Projects	Distribution Overhead	DOVHD-M004: Expulsion Fuse Replacement	Ex 4, Ch 11 Ex 4, Ch 4.3	Yes N	WA I	N/A	16,635.9		(16,635.9)	-100.0%	N/A	N/A	N/A	+	N/A	WA N/A	A N/A	N	NA NA	A	NA	N/A	N/A	N/A	N/A	N/A
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	OH CAP 2AP Projects	Wildfire	WLDFR-M004: Expulsion Fuse Replacement	Ex 4, Ch 11 Ex 4, Ch 4.3	Yes N	WA I	N/A	16,635.9		(16,635.9)	-100.0%	N/A	N/A	N/A		N/A	WA NVA	A N/A	N	N/A N/A	Λ	NA	N/A	N/A	N/A	N/A	N/A
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	OH CAP 2AP Projects	SRM (NON- RAMP)	SRM (NON-RAMP)	Ex 4, Ch 11 Ex 4, Ch 4.3	Yes N	wa i	N/A	1,199.5	1,808.1	608.6	50.7%	N/A	N/A	N/A		N/A	wa N/a	A N/A	N	N/A N/A	\	NA	N/A	N/A	N/A	N/A	NA
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	Ceramic Po 2AQ Insulators	st SRM Total	SRM Total	Ex 4, Ch 11	No O	On-going	Annual	6,071.1	(8.8)	(6,079.8)	-100.1%	NO	NO	# of Ceramic Post Ins Replaced	ulators	2,093	- (2,093	3) -100.0%	Yi	rES Bel	low variance threshold.	Actual program units were below imputed program units due to the re- prioritization of this work to other capital work in electric distribution, like MAT 2AA.	Under	Under	Under	Rescheduled	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this pri is the replacement of ceramic post insulators that were manufactured in or prior to 1972 and are currentated on PG&E poles. PG&E is anticipating that this program will continue to be lower priority in II GRC cycle.
Capital	Electric N	stribution	E Dist Inst/Repl Of 2A General	Ceramic Po	st Distribution Overhead	DOVHD-M008: Ceramic Post Insulato Replacement	er Ex 4, Ch 11	No N	wa .	N/A	6,071.1	(8.8)	(6,079.8)	-100.1%	N/A	N/A	# of Ceramic Post Ins Replaced	ulators	2,093	. (2.09)	3) -100.0%	N	N/A N/A		N/A	N/A	N/A	N/A	N/A	N/A
Cupital	Excelle DI		E Dist Inst/Repl Of	Surge Arres	ler			No.				(0.0)	(0,079.8)	- nod. 170	ien	N/A			-,000	(2,092		N	Pro PG are rep This	orgam expenditures were below imputed regulatory values due to \$E's focus on completing replacements in HFTD Tier 2 and Tier 3 as in piro years. Beginning in 2023, PG&E began conducting lacements in non-HFTD areas, but at a slower rate than forecasted. a silowed PG&E to allocate resources to higher priority work in MWC	Actual program units were below imputed program units because PG&E is conducting the non-H=TD replacements at a slower rate, as explained in	···A	na/A	NA.		This programs work is origining and will continue in PG&E's 2023 GRC period. The purpose of this programs is the regiscement of non-exempt Surge Arresters. Surge Arresters limit the voltage surge caused by the program of the progra
Capital	Electric Di	stribution	2A General	2AR Replacemen		SRM Total	Ex 4, Ch 11	No O	On-going	Annual	18,523.0	5,194.6	(13,328.4)	-72.0%	NO	YES	# of Replacements	+	3,952	363 (3,289	9) -83.2%	Y	rES 2A.		the cost variance explanation.	Under	Under	Under	Rescheduled	order to allocate resources to higher priority work in MWC 2A.
Capital	Electric Di	stribution	E Dist Inst/Repl Of 2A General	Surge Arres 2AR Replacement		DOVHD-M003: Non-Exempt Surge Arrester Replacement	Ex 4, Ch 11	No N	WA I	N/A	18,523.0	5,194.6	(13,328.4)	-72.0%	N/A	N/A	# of Replacements		3,952	363 (3,289	9) -83.2%	N	NA NA		N/A	N/A	N/A	N/A	N/A	N/A

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	В	C1 C	2 C3	C4	C5	C8	C7	D	E	F	G	н		J		к	L	м	N	0	P	٩		R	s	т	U1	U2	us	v	w
Line (O&M No Expense o Capital)	Function or Area	al MWC MWC	lame MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	/ Program / Project Yea	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spendi Percei Varian for 2023 ((H-G)/G*	ing Spe nt Var ice Expli i (%) Rec	anation Expla	centage riance anation quired Y/N)	Unit Type	2023 Impute Adopte Units	d 2023 d Actual Units	Difference for 2023 (# of Units) (O-N)	Unit Percen Variance for 2023 ((O-N)/N*1	t \(\) ie Ex (%) F	Unit Variance xplanation Required (Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T) Status	Completion Status Statement
91 Capital	Electric Distri	E Dist Inst	Repl OH	FAS Overhead Capital	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	865.3	331.	0 (5	34.3) -61.79		NO I	NO #	of Notifications Complete	d 2,	625 -	(2,62)	25) -100.0%		YES	Below variance threshold.	Actual program units were below imputed program units because fewer problems requiring remediation by troublemen were identified.	On-Target	On-Target	On-Target	Proceeding as Pla	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program, is to record costs for Field Automation System (FAS) Overhead work, that is identified during a field job and need completed by a trobleman. Spending in this program is based on find rates.
92 Capital	Electric Distri	E Dist Inst	Repl OH	FAS Overhead Capital	Distribution Overhead	DOVHD-C003: Equipment Maintenance and Replacement - Distribution Overhead	Ex 4, Ch 11	No	N/A	N/A	865.3	331.	0 (5	34.3) -61.79		N/A	N/A #	of Notifications Complete	d 2.	625 -	(2.62)	25) -100.0%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
93 Capital	Electric Dietri	E Dist Inst	Repl OH	Not assigned	SRM Total (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 11	No	On-going	Appuni		190	2) 6	20.20 -100.0	e.	NO.	ha be	ot Unitized – This program as no measurable units ecause there is no stand- nit of measure.		N/A N/	A N/4	a N/a		NO.	Below variance threshold.	Not unitized	On-Target	On-Target	On-Target	Proceeding as Pla	med MA
																									Program expenditures were above imputed regulatory values due to high than forecasted unit costs and the completion of a higher volume of units	Actual program units were above imputed program units because PG&E found that the frame for lids that provide access to underground facilities reneeded to be replaced rather than repaired, and therefore the work became capitalized under 2BA. In addition more frames were prioritized or					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to provide underground preventable maintenance for deteriorated facilities that are not an imminent hazard, and have not caused an outage. Facilities include transformers, conduit, enclosures, pads, and ide equipment. At this time, PG&E expects to continue to perior more and conduct more units during the GRC
94 Capital	Electric Distri	oution 2B E Dist Inst	Repl UG 2BA	UG Geni Repi	SRM Total	SRM Total DUNGD-C003: Equipment	Ex 4, Ch 11	No	On-going	Annual	49,864.3	73,659.	3 23,7	95.0 47.7%	6	/ES Y	rES #	of Notifications Complete	d 1,	817 2,23	5 418	18 23.0%		YES	than forecasted. See the unit variance explanation for further details.	replacement for safety reasons.	Over	Over	Over	Emergent	cycle. (See unit variance explanation).
95 Capital	Electric Distri	oution 2B E Dist Inst		UG Genl Repl Fault Indicator	Underground	Maintenance and Replacement	Ex 4, Ch 11	No	N/A	N/A	49,864.3	73,659.	3 23,7	95.0 47.7%	6 1	N/A I	N/A #	of Notifications Complete	d 1,	817 2,23	5 418	18 23.0%		N/A	N/A	N/A Actual program units were below imputed program units because fewer than expected Fault Indicators were identified as needing replacement	N/A	N/A	N/A	N/A	N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is for the replacement of deteriorated fault indicators that are not an imminent hazard, and have not caused
96 Capital	Electric Distri			Replacements Fault Indicator	SRM Total	SRM Total DUNGD-C003: Equipment	Ex 4, Ch 11	No	On-going	Annual	899.7	566.1	5 (3	33.2) -37.09	36	NO I	NO #	of Notifications Complete	d 3,	238 2,24	1 (99)	-30.8%		YES	Below variance threshold.	during inspections.	On-Target	On-Target	On-Target	Proceeding as Pla	an outage. Spending in this program is based on inspection find rates.
97 Capital	Electric Distri	oution 2B E Dist Inst	Repl UG 288	Replacements	Underground	Maintenance and Replacement	Ex 4, Ch 11	No	N/A	N/A	899.7	566.1	5 (3	33.2) -37.09	16	N/A I	N/A #	of Notifications Complete	d 3,	238 2,24	1 (99)	-30.8%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is the replacement of Underground Critical Operating Equipment (COE), which is equipment determined to
98 Capital	Electric Distri	oution 2B E Dist Inst	Repl UG 2BD	UG COE Repl	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	7.223.9	9.026.	8 1.8	12.7 25.0%	6	NO I	NO #	of Tags Completed		144 8	8 (5	56) -38.9%			Below variance threshold.	Actual program units were below imputed program units because unit costs were above forecasted. In order to manage overall costs in the 2B program, PGSE did fewer program units in 2BL order.	Under	Under	On-Target	Rescheduled	be necessary for operations. COE is identified for replacement by the division operators, MRC. & restoration, and salidated by Ibstitibution Enginees based on damage and critically to operations. For the GRC cycle, PG&E expects that it will continue to prioritize other work in MWC 28 over work in MMT 28D. Going binvand, PG&E may spend the imputed amount but anticipates completing fewer units than imputed due to the increase in unit costs.
00 Comited	Electric Distri	aution 2B E Dist Inst	Part LIC 28D	UG COE Repl	Underground	DUNGD-C003: Equipment Maintenance and Replacement	Ex 4, Ch 11	No	N/A	N/A	7,223.9	0.038		02.7 25.0%	,	N/A	N/A #			144		56) -38.9%		NIA	NIA	N/A	N/A	N/A	N/A	N/A	NA.
99 Capital	Electric Distri	oution 2B E Dist Inst		UG Idle Facility Remove	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	29.6	317.	3 2	37.6 970.59	%	NO I	NO #	of Tags Completed of Locations		2 1	4 12	12 600.0%		YES	Below variance threshold.	Actual program units were above imputed program units because more idle facilities were identified for removal than forecasted.	On-Target	On-Target	On-Target	Proceeding as Pla	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program and is the removal of underground idle facilities deemed necessary for removal.
101 Capital	Electric Distri	oution 28 E Dist Inst	Repl UG 2BF	UG Idle Facility Remove	Underground	DUNGD-C005: UG Idle Facility Removal	Ex 4, Ch 11	No	N/A	N/A	29.6	317.	3 2	37.6 970.59	% 1	N/A I	N/A #	of Locations		2 1	4 1:	12 600.0%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				UG CAP													ha	ot Unitized – This program as no measurable units acause there is no stand													
102 Capital	Electric Distri	oution 2B E Dist Inst	Repl UG 2BP	Projects UG CAP	SRM Total	SRM Total	Ex 4, Ch 11	No	On-going	Annual	8,456.7	2,988.	1 (5,4	38.6) -64.75	16	NO I	NO ur	nit of measure.		N/A N/	A N/A	A N/A		NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Pla	N/A
103 Capital	Electric Distri	oution 2B E Dist Inst	Repl UG 2BP	Projects	Underground	DUNGD-C004: Planned Major Projects	s Ex 4, Ch 11	No	N/A	N/A	8,456.7	2,988.	1 (5,4	38.6) -64.79	16	N/A P		A ot Unitized – This program no measurable units	n	N/A N/	A N/A	A N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to record Standard Cost Variance (SCV) for the Electric Distribution Preventative Maintenance UG
104 Capital	Electric Distri	oution 2B E Dist Inst	Repl UG #	Not assigned	SRM Total (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 11	No	On-going	Annual		31.	7	31.7 100.05	%	NO I	be	ecause there is no stand nit of measure.	rd	N/A N/	A N/	A N/A		NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Pla	program. SCV is the difference between actual costs incurred and the amount charged out by employees at need a predetermined rate. PG&E does not forecast Standard Cost Variance. This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program
105 Capital	Electric Distri	E Dist Inst	Repl 2CA	Network Misc	SRM Total	SRM Total	Ex 4, Ch 14	No	On-going	Annual	338.9	6.1	9 (3	32.0) -98.01	36	NO I	NO #	of Relays Replaced		25	3 (2:	22) -88.0%		YES	Below variance threshold.	Actual program units were below imputed program units due to the transition to new maintenance tracking software. In addition, PG&E performed relay replacements related to weather-related events in other MVC like 17, which depleted immontly that could be used for MAT 2CA.	On-Target	On-Target	On-Target	Proceeding as Pla	is to replace network protector relays to maintain a sale and reliable distribution network system. Relay installations and replacements are performed for both relativity in MAT 2CA, and in connection with emergency or weather-violated events in other programs, both of which are dependent of PG&Es available inventory. This is a defect demand-before program. The purpose of this program in the 2023 GRC cycle, PG&E may not complete forecasted units for MAT 2CA because the work can also be completed in connection with the emergency or weether-desided events, which cannot be forecasted. Because weather related
106 Capital	Electric Distri	E Dist Inst	Repl 2CA	Network Misc	Distribution Network	DNTWK-C003: Network Component Replacements - Condition Based	Ex 4, Ch 14	No	N/A	N/A	338.9		9 (3	32.0) -98.09		N/A		of Relays Replaced		25	3 (2)	22) -88.0%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
107 Capital	Electric Dietri	E Dist Inst	Repl 208	Fiber/SCADA Communication	SRM Total	SRM Total (NON-RAMP)	Ex 4. Ch 14	No	On asing	Appual		2		2.6 100.05		NO.	Ni ha be	ot Unitized – This program as no measurable units ecause there is no stand- nit of measure.	n erd	N/A N/	A N/4	a N/A		NO.	Below variance threshold.	Net unitized	On-Target	On Tremet	Over	Proceeding as Pla	med MA
108 Capital	Electric Distri	E Dist Inst	Repl 2CC	Transformer & Protector Repl		SRM Total	Ex 4, Ch 14	No.	On-going	Annual	4.057.5	6.051.	4 1.9	33.9 49.1%	6	NO I		of Transformers/Network		25 4	6 2	21 84.0%		YES	Below variance threshold.	Actual program units were above imputed program units due to an unexpected high volume of condition-based replacements due to adverse weather events and aging infrastructure.	On-Target	On-Target	On-Target		This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to replace network transformers and protectors to maintain a safe and reliable
109 Capital	Electric Dietri	E Dist Inst	Repl 200	Transformer & Protector Repl	Distribution Network	DNTWK-C003: Network Component Replacements - Condition Based	Ex 4. Ch 14	Var	N/A	N/A	1029.0	3 208	3 21	77.3 211.65		N/A	M/A PI	of Transformers/Network		3	7 2	25 1250.03		N/A	NIA	N/A	N/A	N/A	N/A	N/A	N/A
	First Pari	E Dist Inst	(Repl	Transformer & Protector Repl	Distribution Network	DNTWK-M005: Network Component Replacements - High-Rise Dry-Type	Ex 4, Ch 14	V			2.799.8	0,200.		21.0		N/A	#	of Transformers/Network				(4) 50.00			NO.	NA.	187				
110 Capital	Electric Distri	E Dist Ins	Repl	Transformer &	Distribution	DNTWK-M006: Network Component Replacements - Targeted Network		Yes	N/A	NA		2,092.1	5 (7	17.2) -25.31			#	of Transformers/Network			4 (-	(4) -50.0%		NA	NA.	NA.	NA	N/A	NA	N/A	PEA
111 Capital	Electric Distri	oution 2C Network	(Ren)	Venting Manhole Covers	Network	Protector Replacements	Ex 4, Ch 14	Yes	N/A	N/A	228.7	752.	5	23.9 229.19	%	N/A P		of Venting Manhole Cove		15 1		0.0%		N/A	NA	NA	N/A	N/A	N/A	N/A	NVA The purpose of this program is the replacement of venting manhole covers in PG&E's network system. PG&E forecast that this network program would be completed at the end of 2022, however, some additional locations were identified. Due to PG&E's focus on other high priority work, no work is expected to be
112 Capital	Electric Distri	oution 2C Network	2CD	Repl Venting	SRM Total	SRM Total	Ex 4, Ch 14	No	On-going	Annual		88.	3	38.3 100.05	%	NO I	NO R	eplacements				N/A		NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	Over	Proceeding as Pla	oned performed under this program for the remainder of the 2023 GRC cycle.
113 Capital	Electric Distri	E Dist Inst oution 2C Network	2CD	Manhole Covers Repl SCADA	s Distribution Network	DNTWK-M002: Venting Manhole Cove Replacements	Ex 4, Ch 14	No	N/A	N/A	-	88.:	3	38.3 100.05	% 1	N/A I	ha	/A ot Unitized – This program as no measurable units		N/A N/	A N/	A N/A		N/A	N/A	NA .	N/A	N/A	N/A	N/A	NA .
114 Capital	Electric Distri	oution 2C Network	Repl 2CE	Communication s Upgrd SCADA	SRM Total	SRM Total	Ex 4, Ch 14	No	On-going	Annual	9,738.9	9,937.	8 1	98.7 2.0%		NO I	NO ur	ecause there is no stand nit of measure.	rd	N/A N/	A N/	A N/A		NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Pla	ned N/A
115 Capital	Electric Distri	E Dist Inst oution 2C Network	Repl 2CE	Communication s Upgrd	Distribution Network	DNTWK-M003: Installation of SCADA Equipment for Safety Monitoring	Ex 4, Ch 14	No	N/A	N/A	9,738.9	9,937.	B 1	98.7 2.0%		N/A I	N/A N	/A ot Unitized – This program as no measurable units	n	N/A N/	A N/	A N/A		N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
116 Capital	Electric Distri	E Dist Inst oution 2C Network	Repl #	Not assigned	SRM Total (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 14	No	On-going	Annual	-	(22:	5) (22.5) -100.0	%	NO I	be	ecause there is no stand- nit of measure.	rd	N/A N/	A N/	A N/A		NO	Below variance threshold. Program expenditures were above imputed regulatory values due to	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Pla	ned NA
																									Program expeniatures were above my pupier regulatory values que to unplanned general IT expenditures on Field Area Network assets that experienced performance issues. The asset replacements have been prioritized to address the areas of greatest risk first. For Wildfire Miligation, Program expenditures were above imputed regulatory values						
117 Curitani	Electric Dis-	Build IT Ag	ps & N/A	Not resi	SRM Tor-1	SRM Total	Ex 4, Ch 4.5 Ex 4, Ch 20-21	p.c.	On orien	Apresal	70 173 5	105.258	g 050	35.3 50.0%		(ES	ha be	ot Unitized – This progra as no measurable units acause there is no stand nit of measure.	- 1	N/A		A N/P		NO.	due to of increased deelopment and deployment of technology solutions in support of Widter Mitigations. These solutions range from 1 solution and capabilities that address scoping PSPS events; 2) adding functionality to products that help to identify highest tisks for inspection; and 3) employed in mobile products that provide field inspectors the ability to package jobs direlativ.	al d Not unitized	On-Target	On-Target	On.Town	Proposition on City	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is 1) provide technology solution support for the development and implementation of the Integrated Grid Platform, and 2) provide technology solutions that support uitide militagions. The program specifically provides hardware and software network and refecommunications solutions as well as enhancements to endowe planning tools in support of uitide militagions.
Couplidi	Electric En	Build IT Ap	ps &	Makeri	Distribution	DOVHD-M005: Additional Asset Data	Ex 4, Ch 4.5			AU.	73,173.5	.00,208.1	30,0			N/A	N/A	A.		N/A		IN	ſ	N/A	NIA	AVA		Sn-/arget	on-raiget		processing across compagness as allowed transported.
118 [Capital	Electric Distri	oution 2F Infra Build IT Ap	ps &	Not assigned	Overhead IT Asset	Lapture	Ex 4, Ch 20-21 Ex 4, Ch 4.5	Yes	N/A	N/A		677.	6	77.8 100.05		N/A I	nvA N	/A		N/A N/	A N/	A N/A	\dagger	N/A	N/A	NA.	N/A	N/A	N/A	N/A	N/A
119 Capital	Electric Distri	oution 2F Infra Build IT Ap	N/A ps &	Not assigned	Failure Emergency Preparedness	EPNDR-C002: Situational Awareness	Ex 4, Ch 20-21	Yes	N/A	N/A	-	34,788.	34,7	38.0 100.05	% !	N/A I	N/A N	/A	+	N/A N/	A N/A	A N/A	\dagger	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA .
120 Capital	Electric Distri	oution 2F Infra	N/A	Not assigned	& Response	and Forecasting Initiatives - WSOC	Ex 4, Ch 20-21	Yes	N/A	N/A		2,408	0 2,4	08.0 100.09	%	N/A I	N/A N	/A		N/A N/	A N/A	A N/A		N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A

				<u> </u>	1	T		<u> </u>		I						<u> </u>											<u> </u>		
	В	CI C2	C3 C4	CS	Ca	C7	, n	F	F	G	н			к			м	N	0	р	0	R	S	т	U1	112	113	v	w
Line (O&M No Expense or Capital)	Functional Area	MWC MWC Name	MAT MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	n Uni	iit Type	2023 Imputed Adopted Units	Actual (# o	of Units)	Unit Percent Variance for 2023 (%) ((O-N)/N*100)	Unit Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
404 00-01-1	Sectric Distribution	Build IT Apps &	N/A Not assigned	Wildfre	WLDFR-M0IT: Wildfire IT Work	Ex 4, Ch 4.5 Ex 4, Ch 20-21	V			27,890.2	45.036.3	17.146.1	61.5%	N/A					N/A			N/A	N/A	No.	N/A	N/A	N/A	N/A	N/A
121 Capital	necinc distribution	Build IT Apps &	NA Not assigned	Wildire	WEDFINION. WIGHEN WORK	Ex 4, Ch 4.5	res	N/A	N/A	27,690.2	45,036.3	17,146.1	61.5%	N/A	N/A	NA.		N/A	N/A	NA	NA	N/A	N/A	NA	NA.	N/A	N/A	NA.	
122 Capital I	lectric Distribution	2F Infra	N/A Not assigned	Wildfre	POST-GRC: Post-GRC Mitigation	Ex 4, Ch 20-21	Yes	N/A	N/A	-	4,257.9	4,257.9	100.0%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	NA	NA .	N/A	N/A	N/A	N/A	N/A
123 Capital	lectric Distribution	Build IT Apps & 2F Infra	N/A Not assigned	SRM (NON- RAMP)	SRM (NON-RAMP)	Ex 4, Ch 4.5 Ex 4, Ch 20-21	Yes	N/A	N/A	42,283.3	18,090.7	(24,192.6	-57.2%	N/A	N/A	N/A Not Unitized –	- This program	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program
124 Capital	Electric Distribution	E Dist Subst 46 Capacity	DSub Nor Capacity	SRM Total (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual	16,420.4	18,203.9	1,783.5	10.9%	NO	NO	has no measu because there unit of measur Not Unitized – has no measu	e is no standard ire. – This program	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	Over	Over	Expanded	is to add substation capacity necessary to address existing overloads and forecasted load growth. PG&E expects to continue to do more work in this program than forecasted due to SB410 requirements, as discussed in PG&E's 2023 GRC capacity phase filing.
125 Capital	Electric Distribution	E Dist Subst 46 Capacity	DSub Em and 46F Op Capacity	SRM Total (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual	1,019.2	2,547.3	1,528.2	149.9%	NO	NO	because there unit of measur Not Unitized –	e is no standard ure.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planne	d N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program
126 Capital	lectric Distribution	E Dist Subst 46 Capacity	DSub New Bus Related 46H Capacity	SRM Total (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual	43,142.9	46,817.4	3,674.6	8.5%	NO	NO	has no measu because there unit of measur	urable units e is no standard ire.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	Over	Over	Expanded	is to provides substation capacity necessary to complete new customer applications for service. PG&E expects to continue to on noce work in this program than forceasted due to SB410 requirements, as discussed in PG&Es 2023 GPC capacity phase filing.
127 Capital	electric Distribution	E Dist Subst 46 Capacity	DSub Land Purchase_ New 46N Sub	v SRM Total (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 17	No	On-going	Annual		(286.0)	(286.0	-100.0%	NO	NO	Not Unitized – has no measu because there unit of measur	urable units e is no standard	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	Over	Over	Emergent	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is for new land purchases for distribution substations. While there was a credit in 2023, PG&E expects that there will be land purchases recorded to this MAT code during the 2023 GRC cycle.
		E Dist Subst Repl	Repl Dsub Other													Not Unitized – has no measu because there	urable units e is no standard												This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is ongoing capital infrastructure replacement work to maintain system operations and reliability. In 2023, PG&E prioritized substation work (for example in MAT 48L, 54A, and MWC 59) over MAT 48A. For the 2023 CRC cycle, PG&E anticipates that this work will continue to be lower priority than other Substation work.
128 Capital	Electric Distribution	48 Other Equip E Dist Subst Repl	48A Equipment Repl Dsub	SRM Total	SRM Total SBSTN-C16A: Proactive Asset	Ex 4, Ch 15	No	On-going	Annual	4,401.6	769.6	(3,631.9	-82.5%	NO	NO	unit of measur	ure.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	Under	Under	Rescheduled	GRC cycle, PG&E anticipates that this work will continue to be lower priority than other Substation work.
129 Capital	lectric Distribution	48 Other Equip	Other 48A Equipment Repl Dsub	Substation	Replacement - Ground Grid	Ex 4, Ch 15	No	N/A	N/A	4,401.6	769.6	(3,631.9	-82.5%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	NA	NA .	N/A	N/A	N/A	N/A	N/A
130 Capital	Electric Distribution	E Dist Subst Repl 48 Other Equip	Other 48A Equipment	Wildfre	WLDFR-C10A: Substation Proactive Asset Replacement - Ground Grid	Ex 4, Ch 15	Yes	N/A	N/A	4,401.6	759.4	(3,642.2	-82.7%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	NA	NA .	N/A	N/A	N/A	N/A	NA .
131 Capital	Electric Distribution	E Dist Subst Repl 48 Other Equip	Repl Dsub Other 48A Equipment	Wildfire	POST-GRC: Post-GRC Mitigation	Ex 4, Ch 15	Yes	N/A	N/A		10.3	10.3	100.0%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	NA	NA NA	N/A	N/A	N/A	N/A	N/A
132 Capital	electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub 48B Regulators	SRM Total (NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 15	No	On-going	Annual		2.2	2.2	100.0%	NO	NO	Not Unitized – has no measu because there unit of measur	urable units e is no standard	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planne	This program was not forecasted in the 2023 GRC. Replacement of distribution substation regulators is integrated under MAT S4A. The program has not been canceled but this MAT code is no longer being used dor that purpose.
133 Capital	Electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub 48C Batteries	SRM Total	SRM Total	Ex 4, Ch 15	No	On-going	Annual	3,389.5	2.1	(3,387.4	-99.9%	NO	NO	# of Batteries		10		(10)	-100.0%	YES	Below variance threshold.	Actual program units were below imputed program units because of the decision to reschedule proactive battery replacements to support high priority substation work. Rescheduling of these proactive replacement does not compromise safety or reliability.	ner	Under	Under	Rescheduled	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is capital infrastructure replacement work to maintain system operations and reliability. In 2023, PG&E prioritized substantion work (for example in MAT 48L, SA, and MIVC 59) over MAT 48C. At this time, PG&E anticipates that this program will continue to be prioritized below other substation work.
134 Capital	Electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub 48C Batteries	Substation	SBSTN-C16C: Proactive Asset Replacement - Batteries	Ex 4, Ch 15	No	N/A	N/A	3,389.5	2.1	(3,387.4	-99.9%	N/A	N/A	# of Batteries		10		(10)	-100.0%	N/A	NA	N/A	N/A	N/A	N/A	N/A	NA
135 Capital I	Sectric Distribution	E Dist Subst Repl	Repl DSub	Wildfre	WLDFR-C10C: Substation Proactive Asset Replacement - Batteries	Ex 4. Ch 15	No	N/Δ	N/A	3.389.5	21	/3 387 /	-99.9%	N/A	N/A	# of Batteries		10		(10)	-100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Too Capital	acoust branching	E Dist Subst Repl	Repl DSub	SRM Total	·	Ex 4, Ch 15	110					(0,007.4		Nex	NA.	# of Circuit Br		10		(10)		1925	Program expenditures were below imputed regulatory values due to prioritizing work in Emergency Replacements (MWC 17 and 59), and Overhead Maintenance Replacements (MWC 24).	Actual program units were below imputed program units due to reprioritization of funding as explained in the cost variance explanation	n for			Rescheduled	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is capital infrastructure replacement work, like breakers, to maintain system operations and reliability. For 2022, PG&E reproducted funding from MAT 480 to higher priority work in other programs as described in the cost variance explanation. At this time, PG&E articipates that this program will continue to be lower priority.
136 Capital	lectric Distribution	48 Other Equip E Dist Subst Repl	48D Breakers Repl DSub	SRM Total	SRM Total SBSTN-C16D: Proactive Asset	Ex 4, Ch 15	No	On-going	Annual	29,793.9	9,239.0	(20,554.9	-69.0%	YES	YES	# of Circuit Bri	reakers Replaced	40	9	(31)	-77.5%	YES	Overhead Maintenance Replacements (MWC 2A).	this MAT code.	Under	Under	Under	Rescheduled	for the remainder of the GRC cycle. Breakers may be replaced under MWC 59.
137 Capital	Electric Distribution	48 Other Equip	48D Breakers	Substation	Replacement - Circuit Breakers	Ex 4, Ch 15	Yes	N/A	N/A	29,793.9	4,708.8	(25,085.1	-84.2%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA .
138 Capital	Electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub Breakers	Wildfire	WLDFR-C10D: Substation Proactive Asset Replacement - Circuit Breakers	Ex 4, Ch 15	Yes	N/A	N/A	29,793.9	4,708.8	(25,085.1	-84.2%	N/A	N/A	# of Circuit Bre	reakers Replaced	40	9	(31)	-77.5%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
139 Capital	lectric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub Breakers	Wildfre	WLDFR-M020: Enhanced Powerline Safety Settings	Ex 4, Ch 15	Yes	N/A	N/A		4,530.2	4,530.2	100.0%	N/A	N/A	# of Circuit Bre	-	40	9	(31)	-77.5%	N/A	NA	NA .	N/A	N/A	N/A	N/A	NA
140 Capital	Electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub 48E Switches	SRM Total	SRM Total	Ex 4, Ch 15	No	On-going	Annual	2,304.0	(244.0)	(2,548.0	-110.6%	NO	NO	Not Unitized – has no measu because there unit of measur	urable units e is no standard	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	Under	Under	Rescheduled	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is capital infrastructure replacement work, like switches, to maintain system operations and reliability. For the 2023 GRC cycle, PG&E anticipates that this work will continue to be lower priority than other Substation work. Switches may be replaced under MWC 59.
141 Capital I	lectric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub 48E Switches	Substation	SBSTN-C16E: Substation Proactive Asset Replacement Switches	Ex 4, Ch 15	No	N/A	N/A	2,304.0	(244.0)	(2,548.0	-110.6%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
142 Capital	Electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub 48E Switches	Wildfre	WLDFR-C10E: Substation Proactive Asset Replacement - Switches	Ex 4, Ch 15	No	N/A	N/A	2,304.0	(244.0)	(2,548.0	-110.6%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
143 Capital	Electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub 48F Switchgear	SRM Total	SRM Total	Ex 4, Ch 15	No	On-going	Annual	33,829.2	17,542.4	(16,286.9	-48.1%	NO	YES	Not Unitized – has no measu because there unit of measur	urable units e is no standard	N/A	N/A	N/A	N/A	NO	Program expenditures were below imputed regulatory values to suppo- higher priority emergency work in MWC 59.	t Not unitized.	On-Target	Under	Under	Rescheduled	This program's work is orgoning and will continue in PGEE's 2023 GRC period. The purpose of this program is a capital infrastructure replacement work to minital system periodics and reliability. For 2023, PGEE reprioditized this work to higher priority emergency work in MWC 59. At this time, PGEE foresees this program will continue to be lower priority.
144 Capital	Electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub 48F Switchgear	Substation	SBSTN-C16F: Substation Proactive Asset Replacement - Switchgear	Ex 4, Ch 15	No	N/A	N/A	33,829.2	17,542.4	(16,286.9	-48.1%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
145 Capital I	electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub 48F Switchgear	Wildfre	WLDFR-C10F: Substation Proactive Asset Replacement - Switchgear	Ex 4, Ch 15	No	N/A	N/A	33,829.2	17,542.4	(16,286.9	-48.1%	N/A	N/A	N/A	This area	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
146 Capital	Electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub Civi 48H Structures	SRM Total	SRM Total	Ex 4, Ch 15	No	On-going	Annual	5,649.1	833.0	(4,816.2	-85.3%	NO	NO	has no measu	e is no standard	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	Under	Under	Rescheduled	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is capital infrastructure replacement work to maintain system operations. At this time, PG&E anticipates this program will continue to be lower priority.
147 Capital	electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub Civi 48H Structures	Substation	SBSTN-C005: Civil Structures Replacement	Ex 4, Ch 15	Yes	N/A	N/A	4,230.6	835.5	(3,395.0	-80.2%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	NA
148 Capital I	Electric Distribution	E Dist Subst Repl 48 Other Equip	Repl DSub Civi 48H Structures	Substation	SBSTN-M006: Minimize Wood in Substations	Ex 4, Ch 15	Yes	N/A	N/A	1,418.6	(2.6)	(1,421.1	-100.2%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	NA	NA	N/A	N/A	N/A	N/A	NA
149 Capital	Electric Distribution	E Dist Subst Repl 48 Other Equip	Dist Line Work 48L Support Substi	at SRM Total	SRM Total	Ex 4, Ch 15	No	On-going	Annual	9,496.8	29,062.4	19,565.6	206.0%	NO	YES	Not Unitized – has no measu because there unit of measur	urable units e is no standard	N/A	N/A	N/A	N/A	NO	Program expenditures were above imputed regulatory values due to a higher volume of substation replacements needed to support distribut line work. This program is for the replacement of substation equipmer specifically to support distribution line work.	on	On-Target	Over	Over	Emergent	This program's work is orgoing and will continue in PGEE's 2023 GRC period. The purpose of this program is substation capital instructure registerement work which to support distribution lines work. This program includes both proactite and emergency substation registerements. Due to aging infrastructure and the reproductation of turning in related areas of MMYC 48, PGEE anticipates there will continue to be an nonreased amount of coats than forecasted through the 2023 GRC cycle.
150 Capital I	electric Distribution	E Dist Subst Repl 48 Other Equip	Dist Line Work 48L Support Substi	at Substation	SBSTN-C16G: Proactive Asset Replacement - Line Support Work	Ex 4, Ch 15	No	N/A	N/A	9,496.8	29,062.4	19,565.6	206.0%	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A

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A B	C1 C2	C3 C4	cs cs	C7	D	E	F G	н		J	к	L	м	N	0	P	Q	R	s	т	U1	U2	U3	v	w
Line (O&M Functional Expense or Capital)	MWC MWC Name	MAT MAT Name RAI	IP Risk RAMP Mitigation and/or Control	2023 GRC Testimony Reference	RAMP P Roll-up Pr (Yes/No)	Program / Project Life (years)	gram / Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units	Difference for 2023 (# of Units) (O-N)	Unit Percent Variance for 2023 (%) ((O-N)/N*100)	Unit Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
151 Capital Electric Distribution	E Dist Subst Repl 48 Other Equip	Dist Line Work Support Substat Wildfi	WLDFR-C10H: Substation Proactiv Asset Replacement - Line Support Work	e Ex 4, Ch 15	No N/A	'A N/A	9,496	3.8 29,062.4	19,565.6	206.0%	N/A	N/A	N/A		va Na	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	NA	N/A
152 Capital Electric Distribution	E Dist Subst Repl 48 Other Equip	ISN DSub Insulators SRM	rotal SRM Total	Ex 4, Ch 15	No On-	n-going Annua	1 5,649	9.1 0.3	3 (5,648.8	100.0%	NO	NO	Not Unitized – This progra has no measurable units because there is no stand unit of measure.		wa nya	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	Under	Under	Rescheduled	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is capital infrastructure replacement work, like invalutors, to markatin system operations and reliability. For 2023, PG&E prioritized funding to MATs 48L and 54A. For the 2023 GRC cycle, PG&E anticipates that this work will confirm to be lower priority than other Substitution work.
153 Capital Electric Distribution	E Dist Subst Repl 48 Other Equip	I8N DSub Insulators Subst	SBSTN-C16H: Proactive Asset Replacement - Insulators	Ex 4, Ch 15	No N/A	'A N/A	5,649	9.1 0.3	3 (5,648.8) -100.0%	N/A	N/A	N/A	N	√A N∕A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
154 Canital Electric Distribution	E Dist Subst Repl 48 Other Equip	ISM DSub Insulators Wildful	WLDFR-C10l: Substation Proactive Asset Replacement - Insulators	Ex 4, Ch 15	No. N/A	a N/a	5.649	21 03	15 648 8	-100.0%	N/A	N/A	N/A		WA N/A	N/A	N/A	N/A	N/A	M/A	N/A	N/A	N/A	N/A	N/A
155 Capital Electric Distribution	E Dist Subst Repl	DSub Animal Abatement SRM		Ex 4, Ch 15	No On-	n-going Annua	1 6,008		(5,859.1	97.5%	NO NO	NO	# of Locations		17 -	(17)	-100.0%	YES	Below variance threshold.	Actual program units were below imputed program units due to reprioritization of proactive animal abatement work to support higher priority work in MWC 48, such as distribution line work to support substation work under MAT 48L.	Under	Under	Under	Rescheduled	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is capital infrastructure replacement work, like Arian's Abatement, to maintain system operations and reliability. At this time, PG&E tressees this program to continue to be lower priority than other programs.
	E Dist Subst Repl	DSub Animal	SBSTN-C002: Animal Abatement																						
156 Capital Electric Distribution	48 Other Equip	Abstement Subst	Substation Substation	Ex 4, Ch 15	No NA	A N/A	6,008	3.2 149.0	(5,859.1	97.5%	N/A	N/A	# of Locations		17 -	(17)	-100.0%	N/A	NA Program expenditures were above imputed regulatory values due to a change in how PG&E miligates risks addressed by the work; in 2023 PG&E begain presenting the Downed Conductor Detection, 2023	NA. Actual program units were below imputed grogram units due to a change in two the program miligater risk from what was forecasted in the 202 GRC. In 2023 PGES began recording work associated with the row Downed Conductor Detection (DCD) program. The DCD program miligate guittons for high impedance faults and its widther lisk miligation. The DCD program uses harmonic analysis to detect activing present during high impedance faults and immediate thip response. Note	N/A	N/A	N/A	N/A	NA This programs work is orgoing and will continue in PGAE's 2023 GRC period. This program was forecasted in the 2023 GRC for the epiticement of Recloses and Recloser controllers for reliability and widther fields. In 2023 PGAE begin imprehently the Deconder Conductor Detection (CDC) program and recording costs to 48A. The costs and units that were forecasted to MAT 46A in 2023, were recorded in MAT 46B. The DCD program mitigates pricinose for high medicance statis and is a widther misigation. For the remaining GRC
157 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	19A Automation SRM	Total SRM Total	Ex 4, Ch 13 Ex 4, Ch 4.3	No On	n-going Annua	1,920).7 12,785.5	10,864.8	565.7%	NO	YES	# of Recloser Locations		18 -	(18)	-100.0%	YES	program and recording costs and units to MAT 49A. The DCD program mitigate ignitions for high impedance faults and is a wildfire mitigation.	that the program units forecasted in 49A were completed in MAT 49B. See unit variance explanation for additional details.	Under	Over	Over	Emergent	cycle, PG&E will continue to record DCD costs to 49A and be over imputed on costs but under on units because units are recorded to 49B.
158 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone		ution DOVHD-M010: 3A and 4C Line sad Recloser Replacement	Ex 4, Ch 13 Ex 4, Ch 4.3	Yes N/A	A N/A	1,920).7 (9.5	5) (1,930.2	100.5%	N/A	N/A	# of Recloser Locations		18 -	(18)	-100.0%	N/A	NA	NA	N/A	N/A	N/A	N/A	N/A
159 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	Distribution Line Automation Wildfi	WLDFR-M020: Enhanced Powerline e Safety Settings	Ex 4, Ch 13 Ex 4, Ch 4.3	Yes N/A	'A N/A		12,744.4	12,744.4	100.0%	N/A	N/A	N/A		WA N/A	N/A	N/A	N/A	NA	NA	N/A	N/A	N/A	N/A	NA .
160 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	Distribution Line I9A Automation Wildfin	WLDFR-M10A: Additional System e Automation and Protection	Ex 4, Ch 13 Ex 4, Ch 4.3	Yes N/A	'A N/A		50.6	3 50.6	100.0%	N/A	N/A	N/A		√A N⁄A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
161 Capital Flectric Distribution	E Dist Reliability	Reci Ctris	Total SRM Total	Ex 4. Ch 13	No. On	n-going Angus	4 587	71 16849	2 902 2	63.3%	NO.	NO.	II of Recloser Locations		44 18	(26)	.59 1%		Below variance threshold.	Actual program units were below imputed program units due to changes in the 49A program, as explained in the variance explanation for MAT 49A. in 2023, the costs and program units recorded in 49B are associated with the work forecasted in 49A. The program units that were forecasted in 49B were rescheduled.	On-Tarnet	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is the replacement of line reclosers and controllers. For the remainder of the GRC cycle, PG&E will continue to record to 48 the costs and with still where Merceasted in 4AA h addition, line reclosers and controllers may be completed in MAT 2AA. PG&E expects to complete the units brecasted in 49A and 49B within the GRC cycle.
TOT Cupital Econic Distribution	E Dist Reliability	Recl Ctrls Distrib	ution DOVHD-M010: 3A and 4C Line		160 011	runu runu			(2,502.2				of recorder Educations			(20)		1.00	Color washing discorded.	white teaterneous.	Oiriago				or to dyna.
162 Capital Electric Distribution	49 Ckt/Zone	19B Inst/Repl Overh	ead Recloser Replacement	Ex 4, Ch 13	No N/A	A N/A	4,587	7.1 1,684.9	(2,902.2	-63.3%	N/A	N/A	# of Recloser Locations		44 18	(26)	-59.1%	N/A	NA .	NA .	N/A	N/A	N/A	N/A	N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program
163 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	OH Fuses Inst/Repl SRM	Total SRM Total	Ex 4, Ch 13	No On-	n-going Annua	I 1,627	7.0 2,178.2	2 551.2	33.9%	NO	NO	# of Fused cut-out location	ons 1	129 75	(54)	-41.8%	YES	Below variance threshold.	Actual program units were below imputed program units due to higher unit costs than forecasted in the GRC. PG&E attributes the higher costs to general inflation.	Under	Under	Over	Rescheduled	is the installation and replacement of overhead fuses. As noted in the unit variance explanation, cost for this work has increased. In addition, there can be an annual disconnect between when dollars are spent and units are recorded for this program. For the remainder of the GRC cycle, PG&E expects to complete fewer units for the costs allocated.
164 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	OH Fuses Distrib Inst/Repl Overh	DOVHD-C003: Equipment ution Maintenance and Replacement - ead Distribution Overhead	Ex 4, Ch 13	NO NA	'A N/A	1,627	7.0 2,178.2	551.2	33.9%	N/A	N/A	# of Fused cut-out location	ons 1	129 75	(54)	-41.8%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
165 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	OH Rect/Sect/Swch Inst/Repl SRM	Total SRM Total	Ex 4, Ch 13	No On-	n-going Annua		1,537.6	3 1,537.6	100.0%	NO	NO	# of TripSavers installed		. 35	35	100.0%	YES	Below variance threshold.	Actual program units were above imputed program units due to the installation of trip savers that remained in inventory and were not forecasted in the 2023 GRC.	On-Target	Over	Over	Emergent	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is the installation of Trip Saver devices and was not forecasted in the 2023 GRC because similar work is now being performed in MAT 49T. In 2023, PG&E conducted a one-time effort to install 35 trip savers remaining in inventory.
166 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	Recl/Sect/Swch Distrit Inst/Repl Overh	ution DOVHID-C014: Additional System Automation and Protection - FuseS	aver Ex 4, Ch 13	Yes N/A	A N/A		1,560.0	1,560.0	100.0%	N/A	N/A	# of TripSavers installed		WA 35	35	100.0%	N/A	N/A	NA .	N/A	N/A	N/A	N/A	N/A
167 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	Reci/Sect/Swch SRM Inst/Repl RAME	NON-) SRM (NON-RAMP)	Ex 4, Ch 13	Yes N/A	A N/A		(22.5	5) (22.5	-100.0%	N/A	N/A	N/A Not Unitized – This progra	am N	va Na	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A
168 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	Genl Inst/Repl Circuit/Zone SRM	Fotal SRM Total	Ex 4, Ch 13	No On-	n-going Annua		1,597.6	3 1,597.6	100.0%	NO	NO	has no measurable units because there is no stand unit of measure.		WA N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	NA .
169 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	Genl Inst/Repl Circuit/Zone Wildfin	WLDFR-M020: Enhanced Powerline e Safety Settings	Ex 4, Ch 13	Yes N/A	A N/A		6.4	6.4	100.0%	N/A	N/A	N/A		WA N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
170 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	Genl Inst/Repl SRM I9E Circuit/Zone RAMF		Ex 4, Ch 13	Yes N/A	A N/A		1,591.1	1,591.1	100.0%	N/A	N/A	N/A Not Unitized – This progra		wa nya	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
171 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	UG Rect/Sect/Swch SRM i Inst/Repl (NON	Total RAMP) SRM Total (NON-RAMP)	Ex 4, Ch 13	No On-	n-going Annua		0.1	0.1	100.0%	NO	NO	has no measurable units because there is no stand unit of measure.		WA N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A
172 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	PSPS Sect Device Inst/Repl SRM	Total SRM Total	Ex 4, Ch 4.3	No On-	n-going Annua	i 12,602	2.4 13,992.6	3 1,390.2	11.0%	NO	NO	# of SCADA Sectionalizin Devices/Motorized Switch Operators	ng h	100 82	(18)	-18.0%	NO	Below variance threshold.	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
173 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	PSPS Sect Device Inst/Repl Wildfi	WLDFR-M008: PSPS Reduction e Initiatives	Ex 4, Ch 4.3	No NA	'A N/A	12,602	2.4 13,992.6	3 1.390.2	11.0%	N/A	N/A	# of SCADA Sectionalizin Devices/Motorized Switch Operators	ng h	100 82	(18)	-18.0%	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A
		49I OH											# of Event Classification through Current and Volta	age					Program expenditures were below imputed regulatory values due to the priority was given to develop streamlined processes and automation to analyze sensor data as part of Wildfire Miligation Plan (WMP) Objective SA-03 befor ramping up sensor deployments; 2 Early Fault Detail 2. Early 3. Early 4. Early 4. Early 5. Early	Actual program units were below imputed program units due to					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program
174 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone		Total SRM Total	Ex 4, Ch 4.3	No On-	n-going Annua	23,925	5.0 4,108.5	(19,816.5	-82.8%	NO	YES	Monitoring (ECCVM) Sens RF Radio, Line Sensors	nsors,	266 322	(944)	-74.6%	YES	(EFD) / Distribution Fault Anticipation (DFA) deployment funds were re- allocated to Down Conductor Detection in MAT 49A.	rescheduling the deployment of a new tool to process sensor data as explained in the cost variance explanation.	Under	Under	Under	Rescheduled	is to install distribution grid sensors in High Fire Risk Areas (HFRA) as part of WMF. During the 2023 GRC cycle PG&E anticipates that it will deploy the new tool and resume sensor installations.
175 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	49I OH Fithd/LnSnsr Inst/Repl Wildfi	WLDFR-M07A: Situational Awarene and Forecasting Initiatives - Line e Sensors	Ex 4, Ch 4.3	Yes N/A	A N/A	8,717	7.0 3,037.2	2 (5,679.8	65.2%	N/A	N/A	# of ECCVM sensors, RF Radio, Line Sensors	3	36	(268)	-88.1%	N/A	NA	NA	N/A	N/A	N/A	N/A	N/A
176 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	49I OH FitInd/LnSnsr Inst/Repl Wildfi	WLDFR-M011: Situational Awarene e and Forecasting Initiatives - EFD	Ex 4, Ch 4.3	Yes N/A	'A N/A	5,739	9.5 644.1	(5,095.5	88.8%	N/A	N/A	# of ECCVM sensors, RF Radio, Line Sensors	:	501 -	(501)	-100.0%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
177 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	49I OH FitInd/LnSnsr I9I Inst/Repl Wildfi	WLDFR-M012: Situational Awarene e and Forecasting Initiatives - DFA	Ex 4, Ch 4.3	Yes N/A	'A N/A	9,468	3.5 180.4	(9,288.1	98.1%	N/A	N/A	# of ECCVM sensors, RF Radio, Line Sensors	= 4	161 286	(175)	-38.0%	N/A	NA	NA	N/A	N/A	N/A	N/A	NA .
178 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	49I OH FitInd/LnSnsr SRM Inst/Repl RAME	NON-) SRM (NON-RAMP)	Ex 4, Ch 4.3	Yes N/A	'A N/A		246.8	3 246.8	100.0%	N/A	N/A	N/A Not Unitized – This progra	am h	wa nya	N/A	N/A	N/A	NA	NA NA	N/A	N/A	N/A	N/A	N/A
179 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	PIH / Microgrids: non- gen SRM	Total SRM Total	Ex 4, Ch 4.3	No On-	n-going Annua		262.4	262.4	100.0%	NO	NO	Not Unitized – This progra has no measurable units because there is no stand unit of measure.		WA N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Planned	N/A
180 Capital Electric Distribution	E Dist Reliability 49 Ckt/Zone	PIH / Microgrids: non- I9M gen Wildfi	WLDFR-M006: PSPS Reduction Initiatives	Ex 4, Ch 4.3	No N/A	'A N/A		262.4	262.4	100.0%	N/A	N/A	NA		WA N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA

A B	C1 C	2 C3	C4	C5	C6	C7	D	E F	G 2023	н	Difference	J Spending	K Spending Variance	L Percentage	M	N 2022	0	P	Q Unit	R Unit	S 2002	T 2023	U1	U2	U3	٧	W
Type Line (O&M Functional No Expense or Capital)	MWC MWC	Name MA	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years) Project Yea	Imputed r Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Variance Explanation Required (Y/N)	Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	ACCUBI (#	Difference for 2023 # of Units) (O-N)	Percent Variance for 2023 (%) ((O-N)/N*100)	Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
												((11-0)-0-100)	(iii)	(iii)	Not Unifized – This program has no measurable units				((o-n)m iss)	(114)							
181 Capital Electric Distribution	E Dist Rel 49 Ckt/Zone	ability 49R	Grid Mod Tech S	SRM Total	SRM Total	Ex 4, Ch 4.3	No (On-going Annual	18,304.1	71.6	(18,232.5	-99.6%	NO	YES	because there is no standard unit of measure.	N/A	N/A	N/A	N/A	NO	Program expenditures were below imputed regulatory values due to delays in the Rapid Earth Fault Current Limiter (REFCL) demonstration project.	Not unitized.	On-Target	Under	Under	Rescheduled	The purpose of this program is the evaluation of the effectiveness of the REFCL technology to mitigate the need for PSPS. PGSE has not made a decision on the scope of REFCL installation in the GRC cycle.
182 Capital Electric Distribution	E Dist Rel 49 Ckt/Zone	ability 49R	Grid Mod Tech W	Vildfire i	WLDFR-M10C: Additional System Automation and Protection - REFCL	Ex 4, Ch 4.3	Yes M	N/A N/A	18,304.10	71.6	-18,232.5	99.6%	N/A	ΝΆ	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	N/A	N/A	N/A	N/A	NA.
	E Dist Rei	ability	Elect Reliability S	SRM Total																		Actual program units were below imputed program units due to reprioritization to other higher priority programs like Emergency Replacements (MWC 17 and 59), and Overhead Maintenance					This program's work is ongoing and will confinue in PGSE's 2023 GRC period. The purpose of this program is the installation of technology to detect and isolate outages, and restore service to customers. PGSE anticipates that this program will confinue to be lower priority for the remainder of the GRC cycle.
184 Capital Electric Distribution	49 Ckt/Zone	49S		NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 13	No 0	On-going Annual	3,881.7	964.3	(2,917.3	-75.2%	NO	NO	# of FLISR Circuit Activations	12	1	(11)	-91.7%	YES	Below variance threshold.	Replacements (MWC 2A).	Under	Under	Under	Rescheduled	that this program will continue to be lower priority for the remainder of the GRC cycle. This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to install Fuse Savers; for the 2023 GRC cycle PG&E is exploring options that would allow PG&E to install more
185 Capital Electric Distribution	E Dist Rel 49 Ckt/Zone	49T	D-Single Phase Recloser S	SRM Total	SRM Total	Ex 4, Ch 13 Ex 4, Ch 4.3	No 0	On-going Annual	4,557.8	7,061.8	2,504.0	54.9%	NO	NO	# of FuseSavers installed	117	49	(68)	-58.3%	YES	Below variance threshold.	Actual program units were below imputed program units due to higher unit costs than forecasted.	Under	On-Target	On-Target	Proceeding as Planne	to listate ruse cares, our office 2020 GML cycle Pubble is exploring opports that would allow Pubble to listate indie all units for the same amount of funding.
186 Capital Electric Distribution	E Dist Rel 49 Ckt/Zone	ability 49T	D-Single Phase D Recloser C	Distribution I Overhead	DOVHD-C014: Additional System Automation and Protection - FuseSaver	Ex 4, Ch 13 r Ex 4, Ch 4.3	Yes 1	N/A N/A	1,452.8	-	(1,452.8	-100.0%	N/A	N/A	# of TripSavers installed	38	-	(38)	-100.0%	NA	N/A	NA	N/A	N/A	N/A	N/A	NA .
187 Capital Electric Distribution	E Dist Rei	ability	D-Single Phase	Vildfire	WLDFR-M10B: Additional System Automation and Protection - FuseSave	Ex 4, Ch 13	Yes	N/A N/A	3,105.0	7,061.8	3.956.8	127.4%	N/A	N/A	# of FuseSavers installed	90	49	(21)	-38.5%	N/A	ANA	N/A	N/A	N/A	N/A	N/A	NA.
101 Copiese Escoto State Industri	45 GMZDIIO	-	Emerging Dist	Thanc	rabination and 1 resolution - 1 decourse	LX4, 0114.0	100		0,100.0	1,001.0	0,000.0	121.49	101	167	Not Unifized – This program has no measurable units			(01)	-00.0%	N/	Program expenditures were above imputed regulatory values due to EPSS work being recorded to this program. PG&E did not forecast EPSS capital		101	167	101		This program's work is ongoing and will continue in POSE's 2023 GRC period. The purpose of this program is
188 Capital Electric Distribution	E Dist Rel 49 Ckt/Zone	49X	Rel Improvements S Emerging Dist		SRM Total	Ex 4, Ch 13	No (On-going Annual	3,868.3	16,114.6	12,246.4	316.6%	NO	YES	because there is no standard unit of measure.	N/A	N/A	N/A	N/A	NO	work in the 2023 GRC due to the program was new and PG&E was not able to develop a forecast for the 2023 GRC.	Not unitized.	On-Target	Over	Over	Emergent	reliability work to address routine, localized reliability issues as they emerge. PGSE expects to continue to recorded costs in 49%, to install equipment like fuse savers and fault indicators to support the EPSS program.
189 Capital Electric Distribution	E Dist Rei 49 Ckt/Zone	ability 49X	Rel D Improvements C	Distribution I Overhead I	DOVHD-C012: Targeted Reliability Programs	Ex 4, Ch 13	Yes 1	N/A N/A	3,868.3	9,114.6	5,246.4	135.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA .	N/A	N/A	N/A	N/A	NA
190 Capital Electric Distribution	E Dist Rei 49 Ckt/Zone	ability 49X	Emerging Dist Rel Improvements W	Vildfire	WLDFR-M020: Enhanced Powerline Safety Settings	Ex 4, Ch 13	Yes 1	N/A N/A		7,000.0	7,000.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	NA
	E Dist Re	ohilbu																			Program expenditures were below imputed regulatory values due to PG&E's decision to record the associated material costs to the actual projects in various other programs such as critical operating equipment, EPSS related work, and capacity projects, rather than to this MAT code. This program	Actual program units were above imputed program units due to increased line recloser installations on EPSS circuits in order to minimize widtfire risk. PG&E did not forecast EPSS capital expenditures in the 2023 GRC. As noted in the cost variance explanation, reclosers are charged to individual					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is for purchases and maintains inventory of fine reclosers; the costs were centrally forecasted in 49# in the 2023 GRC. In the 2023 GRC cycle, PG&E will record the recloser material costs to individual projects in verious
191 Capital Electric Distribution	49 Ckt/Zone	#	Not assigned S	SRM Total	SRM Total	Ex 4, Ch 13	No (On-going Annual	13,025.8	(294.1) (13,319.9	-102.3%	NO	YES	# of Line Reclosers	694	1,307	613	88.3%	YES	purchases and maintains inventory of fine reclosers.	projects but the program units are being tracked here in 49#.	On-Target	On-Target	Under	Proceeding as Planne	Ground in the zood show cycle, model, his record the reclassification and internating projects in remainded programs however the reclasers will be captured here in 49#.
192 Capital Electric Distribution	E Dist Rel 49 Ckt/Zone	ability #	Not assigned V		WLDFR-M006: PSPS Reduction Initiatives	Ex 4, Ch 13	Yes M	N/A N/A		31.8	31.8	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	N/A	N/A	N/A	N/A	NA
193 Capital Electric Distribution	E Dist Rel	ability #	S Not assigned R	SRM (NON- RAMP)	SRM (NON-RAMP)	Ex 4, Ch 13	Yes M	N/A N/A	13.025.8	(325.9	(13.351.6	102.5%	N/A	N/A	# of Line Reclosers	694	1.307	613	88.3%	N/A	N/A	NA.	N/A	N/A	N/A	N/A	NA .
	E Dist Sul	st Reol	E Dist Subst-							,	,				Not Unifized – This program has no measurable units because there is no standard												
194 Capital Electric Distribution	54 Transform		Repl Transfm S	SRM Total	SRM Total	Ex 4, Ch 15	No (On-going Annual	18,767.5	24,806.1	6,038.6	32.2%	NO	NO	unit of measure.	N/A	N/A	N/A	N/A	NO NO	Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Planne	NA NA
195 Capital Electric Distribution	E Dist Sul 54 Transform		E Dist Subst- Repl Transfm S	Substation	SBSTN-C16K: Proactive Asset Replacement - Transformer SBSTN-M002: Increase Capitalized	Ex 4, Ch 15	Yes 1	N/A N/A	16,703.1	22,502.6	5,799.5	34.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA .	N/A	N/A	N/A	N/A	NA
196 Capital Electric Distribution	E Dist Sul 54 Transform		E Dist Subst- Repl Transfm S		Emergency (CEM) Stock for Transformers, Emergency Mobile Transformers	Ex 4, Ch 15	Yes 1	N/A N/A	2,064.4	2,204.9	140.4	6.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	NA.	N/A	N/A	N/A	N/A	NA .
	E Dist Sul	st Repl	E Dist Subst-		WLDFR-C10K: Substation Proactive																						
197 Capital Electric Distribution	54 Transform		Repl Transfm V		Asset Replacement - Transformer	Ex 4, Ch 15	Yes 1	N/A N/A	16,703.1	22,502.6	5,799.5	34.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	NA .	N/A	N/A	N/A	N/A	NA .
198 Capital Electric Distribution	E Dist Sul 54 Transform		E Dist Subst- S Repl Transfm R	RAMP)	SRM (NON-RAMP)	Ex 4, Ch 15	Yes I	N/A N/A	-	98.6	98.6	100.0%	N/A	ΝA	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	N/A	N/A	N/A	N/A	NA
	E Dist Sui	st Reni	E Dist Subst-												Not Unifized – This program has no measurable units because there is no standard												This program's work is ongoing and will confirue in PG&E's 2023 GRC period. The purpose of this program is to recondison older substation transformers to extend their life expectancy by replacing a specific combination of components. For 2023 FG&E prioritized funding from MAT 54L to higher priority, work in MAT 54A. Over the GRC cycle, PG&E expects to continue to reprioritize this program to higher priority work within the MMC 54.
199 Capital Electric Distribution	54 Transform	er 54L	Life Ext Transfm S	SRM Total	SRM Total	Ex 4, Ch 15	No (On-going Annual	3,389.5	15.4	(3,374.1	99.5%	NO	NO	unit of measure.	N/A	N/A	N/A	N/A	NO	Below variance threshold.	Not unitized.	On-Target	Under	Under	Rescheduled	program.
200 Capital Electric Distribution	E Dist Sul 54 Transform		E Dist Subst- Life Ext Transfm S		SBSTN-M001: Transformer Life Extension	Ex 4, Ch 15	No f	N/A N/A	3,389.5	15.4	(3,374.1	99.5%	N/A	N/A	N/A Not Unifized – This program	N/A	N/A	N/A	N/A	NA	N/A	NA .	N/A	N/A	N/A	N/A	NA
201 Capital Electric Distribution	E Dist Re	lace UG #	S Not assigned (/	SRM Total NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 14	No 0	On-aoina Annual		(226.3	(226.3) -100.0%	NO	NO	has no measurable units because there is no standard unit of measure.	N/A	N/A	N/A	N/A	NO.	Below variance threshold.	Not unitized.	On-Target	On-Target	Under	Proceeding as Planne	ad NA
										,											Program expenditures were below imputed regulatory values due to reprioritizing to emergency replacements (MWC 17), underground/network						This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is
202 Capital Electric Distribution	E Dist Re 56 Asset-Ger		UG Cable Other Repl S	SRM Total	SRM Total	Ex 4, Ch 13	No (On-going Annual	38,567.0	20,512.8	(18,054.2	-46.8%	NO	YES	# of Circuit Miles	18	7	(11)	-60.7%	YES	maintenance replacements (MWCs 2B & 2C), and capacity improvements (MWC 06).	Actual program units were below imputed program units due to reprioritization as discussed in the cost variance explanation.	Under	Under	Under	Rescheduled	to replace underground primary cables in areas with history of failures. PG&E anticipales that this program will continue to be lower priority for the remainder of the GRC cycle.
203 Capital Electric Distribution	E Dist Re 56 Asset-Ger	lace UG 56A	UG Cable Other Repl U	Inderground I	DUNGD-C06A: Primary Cable Replacement Program	Ex 4, Ch 13	No I	N/A N/A	38,567.0	20,512.8	(18,054.2	-46.8%	N/A	ΝΆ	# of Circuit Miles	18	7	(11)	-60.7%	NA	NA	NA	N/A	N/A	N/A	N/A	NA.
	E Dist Re	lace UG			0047.1	F 4 01 40				45.0					# of Miles Cable Testing and				400.001			Actual program units were below imputed program units due to reprioritizing emergency replacements (MWC 17), underground/network maintenance					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to test or rejuvenate UG primary cables as part of targeted replacement strategy. PG&E anticipates that this
204 Capital Electric Distribution	56 Asset-Ger		UG Cable Inject S		SRM Total	Ex 4, Ch 13	No 0	On-going Annual	1,164.6	45.8	(1,118.8	96.1%	NO	NO	Rejuvenation	6	-	(6)	-100.0%	YES	Below variance threshold.	replacements (MWCs 2B & 2C), and capacity improvements (MWC 06).	Under	Under	Under	Rescheduled	program will continue to be lower priority for the remainder of the GRC cycle.
205 Capital Electric Distribution	E Dist Rej 56 Asset-Ger		UG Cable Inject U		DUNGD-C06B: Primary Cable Rejuvenation Program	Ex 4, Ch 13	Yes 1	N/A N/A	1,164.6	45.8	(1,118.8	-96.1%	N/A	NA	# of Miles Cable Testing and Rejuvenation	6	-	(6)	-100.0%	NA	N/A Program expenditures were below imputed regulatory values due to	NA .	N/A	N/A	N/A	N/A	NA
206 Capital Electric Distribution	E Dist Re 56 Asset-Ger	lace UG 56C	UG Cable COE Repl S	SRM Total	SRM Total	Ex 4, Ch 13	No 0	On-going Annual	37,551.1	7,943.6	(29,607.5) -78.8%	YES	YES	# of Projects	197	23	(174)	-88.3%	YES	reprioritizing emergency replacements (MWC 17), underground/network maintenance replacements (MWCs 2B & 2C), and capacity improvements (MWC 06).	Actual program units were below imputed program units due to reprioritization as discussed in the cost variance explanation.	Under	Under	Under	Rescheduled	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program to replace failed underground primary cables in 200A bop systems. PG&E anticipates that this program will continue to be lower priority for the remainder of the GRC cycle.
	E Dist Re	lace UG	UG Cable COE		DUNGD-C003: Equipment Maintenance	e																					
207 Capital Electric Distribution	56 Asset-Ger E Dist Re	lace UG	Repl U TGram/TGral Switch S	SRM Total	and Replacement	Ex 4, Ch 13	No h	N/A N/A	37,551.1	7,943.6	(29,607.5		N/A	N/A	# of Projects	197	23	(174)	-88.3%	NA	NA	NA .	N/A	N/A	NA	N/A	NA .
208 Capital Electric Distribution	56 Asset-Ger	56D	Replacemnt (1	NON-RAMP)	SRM Total (NON-RAMP)	Ex 4, Ch 13	No (On-going Annual	+ -	(7.6	(7.6	-100.0%	NO	NO	# of TGRAM/TGRAL Switches		+	-	0.0%	NO	Below variance threshold. Program expenditures were below imputed regulatory values due to reprioritizing emergency replacements (MWC 17), underground/network	Not unitized.	On-Target	On-Target	Under	Proceeding as Planne	ed INA This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is
209 Capital Electric Distribution	E Dist Re 56 Asset-Ger	lace UG 56N	Network Cable Replacement S	SRM Total	SRM Total	Ex 4, Ch 14	No (On-going Annual	32,200.1	261.4	(31,938.7	99.2%	YES	YES	# of Circuit Feet	56,889		(56,889)	-100.0%	YES	maintenance replacements (MWCs 2B & 2C), and capacity improvements (MWC 06).	Actual program units were below imputed program units due to reprioritization as discussed in the cost variance explanation.	Under	Under	Under	Rescheduled	to be lower priority for the remainder of the GRC cycle.
210 Capital Electric Distribution	E Dist Rej	lace UG 56N	Network Cable D Replacement N	Distribution I	DNTWK-C001: Network Cable Replacement	Ex 4, Ch 14	Yes	N/A N/A	32,200.1	261.4	(31,938.7) -99.2%	N/A	N/A	# of Circuit Feet	50,099		(50,099)	-100.0%	NA	N/A	NA .	N/A	N/A	N/A	N/A	NA .

A B	C1 C2	cs	C4	C5 C6	C7	D	E F	G	н	_	J	к	L	м	N	0	P	q		R S	Т	U1	U2	us	v	w
Line (O&M Functional No Expense or Capital)	MWC MWC Name	MAT MA	T Name	RAMP Risk RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years) Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Variance Explanation	Percentage Variance Explanation Required (Y/N)	Unit Type	2023 Imputed Adopted Units	2023 Actual Units	Difference for 2023 (# of Units) (O-N)	Unit Percent Variance for 2023 (%) ((O-N)/N*100)	Vari Expla Req	Unit 2023 riance Cost anation Variance guired Explanation (Yit)	2023 Unit Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
	E Dist Replace U	3 Netwo	ork Cable Dis																							
211 Capital Electric Distribution	56 Asset-Gen	56N Repla	scement Ne	letwork Network Cable Replacement	Ex 4, Ch 14	No	N/A N/A	32,200.1	261.4	(31,938.7)	-99.2%	N/A	N/A	# of Circuit Feet	6,790		(6,790)	-100.0%	N	N/A N/A	N/A Actual program units were below imputed program units due to	N/A	N/A	N/A	N/A	N/A
212 Capital Electric Distribution	E Dist Replace L 56 Asset-Gen	G Repla Obso 56S Switc	lete UG hes SF	RM Total SRM Total	Ex 4, Ch 13	No	On-going Annual	8,473.9	(834.7)	(9,308.6)	-109.9%	NO	NO	# of LBOR Switch Replacements	77		(77)	-100.0%	Y	Below variance threshold.	reprioritizing emergency replacements (MWC 17), underground/network maintenance replacements (MWCs 2B & 2C), and capacity improvements (MWC 06).	Under	Under	Under	Rescheduled	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to replace UG clifflied switches, prior to premature failure. PG&E articipates the work in this program will increase over the GRC cycle.
	E Dist Replace U	Repla G Obso	sce lete UG	DUNGD-C007: LBOR Switch										# of LBOR Switch												
213 Capital Electric Distribution	56 Asset-Gen	56S Switc	thes Un	Inderground Replacement	Ex 4, Ch 13	No	N/A N/A	8,473.9	(834.7)	(9,308.6)	-109.9%	N/A	N/A	Replacements	77		(77)	-100.0%	N	NA NA	N/A	N/A	N/A	N/A	N/A	N/A The purpose of this program is a continuing effort to install temperature alarm devices to monitor UG asset
214 Capital Electric Distribution	E Dist Replace L 56 Asset-Gen		l erature ator SF	RM Total SRM Total	Ex 4, Ch 13	No	On-going Annual	8,837.6	3,575.2	(5,262.4)	-59.5%	NO	NO	# of Installations	2,294		(2,294)	-100.0%	Y	WES Below variance threshold.	Actual program units were below imputed program units due to funding being allocated to higher priority work as discussed in the cost variance explanations in MAT 56A.	Under	Under	Under	Rescheduled	condition and identify proactive replacements, prior to premature failure. The costs recorded in 2023 were for hardware purchases, therefore no units were completed. PG&E anticipates the work in this program will increase.
	Not Unlisted — This programs work is ongoing and will continue in PORETS 2023 GRC period. The purpose of this program																									
215 Capital Electric Distribution	Eacht Distribution 50 Asset-Gen 50T Indicator Underground Temperature Sensor Ex.4. Ch 13 No NA NA 8,837.6 3,575.2 (5,202.4) 49.9% NA NA 8 of Institutions 2.24 - (2,294 - 100.0% NA																									
216 Capital Electric Distribution	E Dist Repl 58 Substation Safet			RM Total SRM Total	Ex 4, Ch 15	No	On-going Annual	3,389.5	(4.7)	(3,394.2)	-100.1%	NO	NO	because there is no standard	N/A	N/A	N/A	N/A	N	NO Below variance threshold.	Not unitized.	On-Target	Under	Under	Rescheduled	concerns the procession and suppression installer, Replacements, or upgrades as required by local life marshals and state regulations. At this time, PG&E foresees this program to continue to be lower priority than other programs.
	E Dist Repl		y&Envir&Fi	SBSTN-C009: Fire Protection /	Ex 4, Ch 15						-100 1%								l							
217 Capital Electric Distribution	58 Substation Safet	DSub	otect Su	Substation Suppression Systems	Ex 4, Ch 15	No	N/A N/A	3,389.5	(4.7)	(3,394.2)	-100.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	NA NA	N/A	N/A	N/A	N/A	N/A	N/A
218 Capital Electric Distribution	E Dist Repl 58 Substation Safet		y&Envir&Fi otect Wi	WLDFR-C018: Fire Protection / Vildfire Suppression Systems	Ex 4, Ch 15	No	N/A N/A	3,389.5	(4.7)	(3,394.2)	-100.1%	N/A	N/A	N/A Not Unitized – This program	N/A	N/A	N/A	N/A	N	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
219 Capital Electric Distribution	E Dist Repl 58 Substation Safet	Repl	Dist Sub SF Equip (N	RM Total NON-RAMP) SRM Total (NON-RAMP)	Ex 4, Ch 15	No	On-going Annual		9.2	9.2	100.0%	NO	NO	has no measurable units because there is no standard unit of measure.	N/A	N/A	N/A	N/A		NO Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Plann	d NA
220 Capital Electric Distribution	E Dist Repl 58 Substation Safet		Security	iRM Total SRM Total	Ex 4, Ch 15	No	On-going Annual	5,197.2	3,405.6	(1,791.6)	-34.5%	NO	NO	Not Unitized – This program has no measurable units because there is no standard unit of measure.	N/A	N/A	N/A	N/A	N	NO Selow wateriore threshold.	Not unitized.	On-Target	Over	Over	Expanded	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is installar, upgrades, or replacements of physical security measures within substalions. This program represents regognized partial installations replacement who for installar system operations and reliability. For the remainder of the 2023 GRC PG&E expects to spend more than inspected on the program security of the program of the pro
	E Dist Repl	DSub	Security	SBSTN-C001: Substation Security																						
221 Capital Electric Distribution	58 Substation Safet	58S Upgra	ades Su	Substation Enhancements	Ex 4, Ch 15	No	N/A N/A	5,197.2	3,405.6	(1,791.6)	-34.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	N/A N/A	N/A	N/A	N/A	N/A	N/A	NA .
222 Capital Electric Distribution	E Dist Repl 58 Substation Safet		Security ades W	WLDFR-C10M: Substation Security Vildfre Enhancements	Ex 4, Ch 15	No	N/A N/A	5,197.2	3,405.6	(1,791.6)	-34.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	N/A N/A	N/A	N/A	N/A	N/A	N/A	NA
223 Capital Electric Distribution	E Dist Subst		SF ssigned (N	RM Total NON-RAMP) SRM Total (NON-RAMP)	Ex 4, Ch 15			85,866.8	172,615.2	86,748.4	101.0%	VEO		Not Unitized – The variety of work activities in this program makes it infeasible to identify a single unit of measure.				N/A		Program expenditures were above imputed regulatory values due to a higher volume of emergency replacement work than forecasted in the 2023 GRC. This includes 2023 winter storm response work, for example: the Tutare Lake flooding.		On-Target	Over	Over	D	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is for emergency capital inflastructure replacement work to maintain system operations and reliability. PG&E anticipates that a higher volume of work in this program may materialize due to reprioritization of d other substation work.
223 Capital Electric Distribution	59 Emergency Rep		nced Dist	NON-RAMP) SAM ISBI (NON-RAMP)	EX 4, Cn 15	NO	On-going Annual	80,800.8	172,615.2	00,740.4	101.0%	TES	TES	Not Unitized – This program has no measurable units	N/A	N/A	N/A	N/A		Tuiste Lake sooding.	Not unitized.	On-Target	Over	Over	Proceeding as Plann	g other substation work.
224 Capital Electric Distribution	E T&D Control 63 System/ Facility	63C (b) Dev	System SF	RM Total NON-RAMP) SRM Total (NON-RAMP)	Ex 4, Ch 21	No	7 6	113,742.8	112,433.5	(1,309.3)	-1.2%	NO	NO	because there is no standard unit of measure.	N/A	N/A	N/A	N/A	N	NO Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Plann	The Distributed Energy Resource Management System (DERMS) costs that were forecasted in the 2023 d GRC as 63C, are being recorded in 63#.
	E T&D Control		bution ational SF	RM Total										Not Unitized – The variety of work activities in this program makes it infeasible to identify a												
225 Capital Electric Distribution	63 System/ Facility	63D Tech	(N	NON-RAMP) SRM Total (NON-RAMP)	Ex 4, Ch 7	No	On-going Annual	4,776.4	4,878.3	101.9	2.1%	NO	NO	single unit of measure. Not Unitized – The variety of work activities in this program	N/A	N/A	N/A	N/A		NO Below variance threshold.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Plann	d N/A This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program
226 Capital Electric Distribution	E T&D Control 63 System/ Facility	# (b) Not a	SF ssigned (N	RM Total NON-RAMP) SRM Total (NON-RAMP)	Ex 4, Ch 7	No	On-going Annual		7,055.9	7,055.9	100.0%	NO	NO	work activities in this program makes it infeasible to identify a single unit of measure.	N/A	N/A	N/A	N/A	N	NO Below variance threshold.	Not unitized.	On-Target	On-Target	Over	Proceeding as Plann	Ins program's work is ongoing and will continue in PG&L's ZUZS GRC period. The purpose of this program is for The Distributed Energy Resource Management System (DERMS), which was forecasted in MAT 63C, d but recorded in MAT 63#.
227 Capital Electric Distribution	E Dist Major 95 Emergency	N/A Not a	SF ssigned (N	RM Total NON-RAMP) SRM Total (NON-RAMP)	Ex 4, Ch 6	No	On-going Annual	66,359.7	49,287.5	(17,072.2)	-25.7%	NO	YES	Not Unitized – There is no applicable unit of measure for this program.	N/A	N/A	N/A	N/A	N	Program expenditures were below imputed regulatory values primarily due to fever storm-related costs recorded as Major Emergencies in the first half of 2023 across the entire PGGE sensice territory. Some of the storms that occurred in 2023 were declared Catastrophic Emergencies and not Major Emergencies, estuding in lower costs recorded in this program.	Not unitized.	On-Target	On-Target	On-Target	Proceeding as Plann	This programs work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is for major emergencies. This program has no end and is responsive to conditions that require immediate dileteration.
(a) During 2023 PG&E began recording (b) The Distributed Energy Resource Ma		cements that were	imputed in MA	AT 2AP to MAT 2AJ. e 2023 GRC as 63C, are being been recorded in 63#.																						

D. MWC Descriptions - Expense

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MWC AB – Support and Emergency Preparedness and Response (EP&R) – Involves general support of the electric distribution system, including performance improvement initiatives, interdepartmental meter costs, and consulting fees. This MWC also includes costs for PG&E's EP&R organization, recorded in MAT code AB6. This program relates to safety, reliability, or maintenance because the initiatives are for emergency preparedness for all employees and for customers. Employees are trained to respond to the Emergency Operations Center (EOC) activations during emergencies, specifically in how to perform their function within the Incident Command Structure organization.

This MWC includes the forecast for Public Safety Power Shutoffs (PSPS) event activities and costs and PSPS non-event preparation. This MWC also includes wildfire situational awareness related programs including the Hazard Awareness and Warning Center, Safety, and Infrastructure Protection Team (SIPT), Meteorology-related projects (including Advanced Fire Modeling), and wildfire cameras. These activities are for the purpose of responding to emergencies and restoring customer service in a safe and timely manner to minimize reliability impacts. In addition, this MWC includes Public Awareness Outreach, the Advanced Technology Services (ATS) organization responsible for equipment testing and calibration and coordinating the EMF Program, and the Regulatory Compliance & Quality Assurance (QA) organization. This MWC also includes Community Wildfire Safety Program (CWSP) and System Hardening PMO work related expenses. This MWC also includes PMO work related expenses for PG&E Remote Grids including team staffing, IT expenses, development of Remote Grid technical specifications and contract templates, and Line Elimination Incentive Program expenses. This MWC also includes Emerging Technology public partnership expenses.

Some activities forecasted in MWC AB were recorded to a new MWC WF including, PSPS event and non-event costs, Enhanced Powerline Safety Settings (EPSS) costs, SIPT costs and Situational Awareness and Forecasting costs.

MWC AR – Read and Investigate Meters – Involves activities for field resources performing manual meter reading activities, and the systems,

administration, and clerical support necessary to effectively perform these activities. This program relates to safety, reliability, or maintenance because it supports the proper functioning of PG&E's metering infrastructure necessary to reliably deliver timely and accurate customer billing.

MWC AT – Emerging Technology – Involves support for the Electric Emerging Technology Program which funds and administers a series of external partnerships and initiatives to keep PG&E informed of the external technology landscape and industry trends, and facilitate coordination with industry, academia, and other external groups to identify and apply technology solutions to address PG&E's greatest challenges. External partnerships and initiatives include formal external innovation challenges, industry technology and vendor landscaping, participation in emerging technology consortia, and targeted partnerships with academia and national labs. This program relates to safety, reliability, or maintenance because it supports emerging technology solutions that may eventually be implemented to improve PG&E's grid.

MWC BA – Electric Distribution Operation Activities – Involves electric Distribution Control Center (DCC) and field operations, including work performed by Distribution Operators (DO) and engineers. This work includes operating switches to transfer load between circuits, isolating customer services or deenergizing sections of line during planned construction or maintenance, and reconfiguring circuits to mitigate unplanned situations such as dig-ins, car pole accidents, and storms. This work also includes the daily enablement and disablement of EPSS on distribution protection devices to provide fast tripping to mitigate ignitions from fault activity during periods of elevated wildfire risk. This program relates to safety, reliability, or maintenance because it provides for timely response and restoration during emergencies and power outages and the execution of system configuration changes such as switching and circuit reconfigurations to reduce customer impacts from planned work.

MWC BF – Electric Distribution Patrols and Inspections – Involves patrols and inspections of overhead (OH) and underground (UG) electric distribution facilities per General Order (GO) 165; patrols and detailed inspections of OH facilities in wildfire areas; infrared inspections; testing and inspections of OH and UG line equipment; special patrols and inspections; and other work associated with electric distribution system maintenance. This

program relates to safety, reliability, or maintenance because it proactively identifies assets needing repair or replacement and generates corrective work orders to mitigate equipment failures and restore the distribution facilities to safe and reliable operating conditions..

MWC BH – Electric Distribution Routine Emergency – Involves repair or replacement of Electric Distribution OH or UG infrastructure that are an imminent hazard or have caused an outage during normal Level 1 conditions. This includes routine emergency response work, as well as work issued using PG&E's Field Automation System (FAS) for either emergency response or system reliability, e.g., arcing wire, wire down, patrol on lines before re-energizing due to fast tripping settings on devices to mitigate fire risk. This also includes costs associated with EPSS to mitigate wildfire ignition risk. This program relates to safety, reliability, or maintenance because it concerns timely restoration of power following outages, investigating voltage or power quality complaints, and putting an imminent hazard in a safe condition.

MWC BK – Maintenance of Other Equipment – Involves repair of specialized equipment, such as transformers, voltage regulators, circuit reclosers, capacitor banks and line switches, as well as equipment repair activities at the Emeryville repair facility. This program relates to safety and reliability because it involves overhauling, repairing, and testing distribution line equipment to mitigate outages and maintain equipment in safe operating conditions. Units that cannot be safely restored are taken out of service and disposed of properly.

MWC DD – Customer Field Service Work – Involves Electric Distribution's portion of customer-generated field service activities, specifically start/stop service requests and other customer-generated electric field service requests. Since 2018, this work includes activities for electric turn-ons and shut-offs initiated by customers, which are mainly performed by Field Metering resources at commercial and agricultural customer premises. EO Dispatch performs the work to ensure that qualified personnel are timely dispatched to respond to all EPSS outages to determine if an ignition has occurred due to fault activity during elevated wildfire activity. This program relates to safety, reliability, or maintenance because it supports the proper functioning of PG&E's metering infrastructure.

MWC EV - New Customer Connection Service Inquiry Activities -

Involves processing customer requests related to new business or increased connection capacity (added load) on existing services. PG&E is required by its approved electric tariff and franchise agreements to perform this work. This program does not relate to safety, reliability, or maintenance.

MWC EW – EO Work Requested by Others (WRO) – Involves work required by tariff, third-party requests and franchise agreements, including: non-plant related relocations of electric facilities, temporary electric services provided to customers during construction projects, and Land Department right-of-way record research requested by third parties that cannot be charged to a specific project. MWC EW also includes third-party Electric Grid Interconnection (EGI) activities for all generation projects interconnected at PG&E's distribution service. EGI projects may include retail tariff programs, compliance with Electric Rule 21, and interconnection applications for Federal Energy Regulatory Commission jurisdictional projects under the Wholesale Distribution Tariff seeking Power Purchase Agreements. This program does not relate to safety, reliability, or maintenance.

MWC EY – Change/Maintenance Used Electric Meter – Involves the meter activities associated with electric meter preventive maintenance, electric meter Corrective Maintenance, meter programming, meter network maintenance, electric meter accuracy testing, and the associated staff support necessary to effectively perform these activities. This program relates to safety, reliability, or maintenance because it supports the proper functioning of PG&E's metering infrastructure necessary to reliably deliver timely and accurate customer billing.

MWC FZ – Electric Distribution Engineering and Planning – Supports many programs that require engineering and planning services, including the Electric Distribution Capacity, Electric Distribution Reliability, EPSS, and UG Asset Management programs. MWC FZ also includes performing diagnostics on data from automated field equipment to support the DCCs; investigating secondary voltage complaints that Trouble-men cannot resolve on the first visit; and operational field work that electric planning personnel initiate, such as phase balancing and replacing fuses that are projected to be overloaded. This program relates to safety, reliability, or maintenance because it includes the

electrical engineering and planning services work necessary for a variety of asset management activities.

MWC GA – Poles – Intrusive Inspection/Test and Treat Program – Involves activities to assess the condition of the lower section of wood poles and preserve the poles' wood strength through the application of chemicals and restoration of poles as warranted. This program also includes coordinating the billing of joint owners and tenants for their share of costs for work performed on jointly owned or leased facilities. In addition, this program includes analyzing poles for overload conditions and ensuring poles meet the strength and loading requirements of GO 95. This program relates to safety, reliability, or maintenance because the work determines whether poles are in good condition to prevent premature failure.

MWC GC – Electric Distribution Substations Operate and Maintain Assets – Involves preventive maintenance, corrective maintenance (CM) and substation support activities for electric distribution substation assets. Preventive Maintenance includes time or condition-based facility and equipment inspections. CM includes the restoration and repair of failed equipment, mobile substation and mobile transformer installation costs, and relocation of emergency and surplus equipment. Substation support activities include activities associated with engineering and maintenance support, major emergency corrective maintenance, substation vegetation management and building maintenance. This program relates to safety and reliability because it supports personnel, tools, and equipment to maintain day-to-day operations. This program relates to maintenance through the proactive identification and resolution of equipment abnormalities.

MWC GE – Electric Distribution Mapping – Involves providing timely and accurate data, spatial information, and data-derived insights for PG&E's electric system that supports construction, engineering, estimating, operational, restoration, inspection, and maintenance activities. This program includes data management activities covering the full lifecycle of data: ingestion, storage, access, controls, governance, quality, meta-data, usage, security, retention, and disposal of data. This program relates to safety, reliability, or maintenance because it enables the accurate collection and effective management of records related to field assets. It also enables access and use of the data to inform risk

management decisions. These records are crucial to determine that field assets are safely, and reliably operated and necessary maintenance is performed promptly.

MWC HG – Electric Distribution Operations Technology – Involves technical support for Electric Distribution Operations, including but not limited to licenses, tools, and operational and development support for various control center applications, including the Advanced Distribution Management System (ADMS). This program relates to safety, reliability, or maintenance due to its association with Supervisory Control and Data Acquisition (SCADA) control over field equipment, outage management applications, operator awareness of real time circuit conditions, enhanced cybersecurity, and integration of distributed energy resources.

MWC HN – Vegetation Management – Involves costs necessary to support and execute regulatory compliance work that includes the annual inspection and maintenance of tree clearances along PG&E's OH high voltage and secondary electric distribution lines. The program covers annual tree trimming or removal, vegetation control, work verification, contractor quality control, environmental compliance, public education, and fire risk reduction work. This program relates to safety, reliability, or maintenance by managing the vegetation adjacent to powerlines to reduce the risk of vegetation contact with the electric distribution equipment; and serves as a risk control, related to the vegetation risk driver, to reduce the frequency or consequence of risk of wildfire and risk of failure of electric distribution overhead assets.

MWC HX – System Automation and Protection Support – Involves engineering and technical support for PG&E's automation and protection equipment. In addition, it includes the service and software costs associated with distribution automation (DA) equipment. The engineering support consists of three key components: (1) Automation Engineering support; (2) Protection Engineering support; and (3) Automation Specialist support, which includes the wildfire risk mitigation including PSPS and EPSS. This program relates to safety, reliability, or maintenance because it includes engineering support for the maintenance and operation of automation and protection equipment.

MWC HY – Perform Gas Meter Maintenance – Involves the costs of meter activities associated with gas meter/AMI SmartMeter™ module maintenance

that does not result in meter/module exchanges, meter/module communication trouble-shooting, programming, and repairs. This program relates to safety, reliability, or maintenance because it supports the proper functioning of PG&E's metering infrastructure necessary to reliably deliver timely and accurate customer billing.

MWC IF – Electric Distribution Major Emergency – Involves response work to significant OH or UG outages and/or imminent hazard to PG&E's electric distribution facilities that requires a division Operations Emergency Center (OEC) activation and is consistent with PG&E's Major Emergency Balancing Account (MEBA) Criteria Guidance Document. Beginning in 2014, these costs are included in the two-way MEBA authorized by D.14-08-032. This program relates to safety, reliability, or maintenance because it allows for the timely restoration of power to customers following an outage.

MWC IG – Various Balancing and Memorandum Account Expense: Includes expense work for a variety of balancing and memorandum accounts:

- Fire Risk Mitigation Memorandum Account (FRMMA) Includes incremental
 costs incurred for wildfire risk mitigation work that is not otherwise recovered
 in PG&E's adopted revenue requirements. PG&E will determine the
 incrementality of these amounts to the Company's revenue requirement
 when it applies for cost recovery;
- Wildfire Mitigation Plan Memorandum Account (WMPMA) Includes
 incremental costs incurred to implement PG&E's approved Wildfire
 Mitigation Plan that are not otherwise recovered in PG&E's adopted revenue
 requirement. PG&E will determine the incrementality of these amounts to
 the Company's revenue requirement when it applies for cost recovery;
- Rule 20A Balancing Account Expense Includes costs associated with the Rule 20A Audit and Rule 20 Guidebook ordered by D.1803022, and expense amounts for cancelled projects; and

Wildfire Mitigation Balancing Account (WMBA) - Includes PSPS event
activities and costs, and PSPS non-event preparation and programs geared
toward mitigating wildfire ignition risk. This account also includes costs
associated with the administration and implementation of EPSS program to
mitigate wildfire risks, and other wildfire mitigation expense activities.

With the exception of Rule 20A, these programs relate to safety, reliability, or maintenance because the balancing and memorandum accounts track work to implement safety prevention measures, system reliability risk reductions, and improvements to address wildfire risk.

MWC IS – Streetlight Support – Involves work in support of streetlight inventory and LS-2 Streetlight Audit Services, and the Light Emitting Diode (LED) and other streetlight programs. This program relates to safety, reliability, or maintenance for the successful inventory of streetlights necessary for ongoing maintenance and safe operations.

MWC IU – Collect Revenue – Involves meter activities that are focused on the detection, investigation, and resolution of customer energy theft. This includes the costs of field employees, systems and staff support necessary to effectively perform these theft-prevention activities. This program relates to safety, reliability, or maintenance because it supports the proper functioning of PG&E's metering infrastructure and seeks to identify and address potential safety issues created by PG&E's customers.

MWC JV – Maintain Information Technology (IT) Applications and Infrastructure – Includes costs for ongoing maintenance, operations, and repair for PG&E's IT applications, systems, and infrastructure. This program relates to safety, reliability, or maintenance by allowing for the development and enhancement of the IT solutions that provide PG&E's field and office employees with the tools that support them in performing their job in a safe and efficient manner. These tools are intended to provide up-to-date, complete, and accurate information to enable coordination of work and asset data across all work streams to enhance grid safety and operational efficiency. The areas covered by this MWC include asset design, asset management, and work management.

MWC KA – Preventive Maintenance and Equipment Repair, OH – Involves repair of OH facilities; repair of OH Critical Operating Equipment (COE); repair of streetlights and group streetlight replacements; repair of OH facilities to

address migratory bird requirements; investigation and response to Radio and Television Interference (RTVI) inquiries; washing insulators; investigation of idle facilities; wood pole bridge bonding; and other OH maintenance work. This MWC also includes preventative and reactive maintenance for PG&E Remote Grid systems. This program relates to safety, reliability, or maintenance because it addresses non-conforming equipment identified by preventative maintenance programs such as inspections and patrols, as well as internal operational processes (e.g., equipment testing), and because it addresses maintenance of PG&E Remote Grid systems.

MWC KB – Preventive Maintenance and Equipment Repair, UG – Involves repair of UG facilities; repair of UG COE; grounding WYE (three-phase star configuration) transformers; and other UG line maintenance work. This program relates to safety, reliability, or maintenance because it addresses non-conforming equipment identified by preventative maintenance programs such as inspections and patrols, as well as internal operational processes (e.g., equipment testing).

MWC KC – Preventive Maintenance and Equipment Repair, Network – Involves repair of network facilities, repair of network equipment, repair of network SCADA equipment, testing and overhaul of Network Protectors (NP), transformer oil sampling, and other miscellaneous network maintenance work. This program relates to safety, reliability, or maintenance because it addresses the maintenance and repair of the equipment identified by preventative maintenance programs such as inspections and patrols, as well as internal operational processes.

MWC OM – Operational Management – Includes labor- and employee-related costs to provide supervision and management support.

MWC OM also includes costs incurred by the administrative staff working for the Supervisors/Managers. This program is not directly related to safety, reliability, or maintenance.

MWC OS – **Operational Support** – Includes labor and employee-related costs that provide services and support that are unrelated to supervision and management. This MWC relates to safety, reliability, or maintenance because it is included as a maintenance activity in accordance with D.19-04-020. Electric Distribution does not consider MWC OM as safety, reliability, maintenance work.

MWC WF – **Wildfire Mitigation** – Involves activities that support the weather station and wildfire camera projects, a satellite fire detection and alerting system, and the development, operations and maintenance of advanced machine learning outage and fire potential index models that are used to mitigate the risk of catastrophic wildfire through mitigations such as EPSS and PSPS. This program relates to safety, reliability, or maintenance because it supports programs that mitigate the risk of catastrophic wildfires.

E. MWC Descriptions - Capital

 MWC 05 – Tools and Equipment – Includes the costs of miscellaneous tools and equipment, Applied Technology Serviced (ATS) tools, and of overdrawn materials. ATS tools include the cost of laboratory and test equipment used for field work or in ATS laboratories. This MWC also includes tools and equipment necessary to perform all field metering, meter maintenance, meter repair, and accuracy testing activities. This program relates to safety, reliability, or maintenance because it includes funds for the purchase of necessary tools to be used in the safe execution of work by field personnel.

MWC 06 – Electric Distribution Line and Equipment Capacity – Involves capacity expansion work outside a substation necessary to correct specific capacity deficiencies or overload conditions on electric distribution lines and equipment. This work includes replacing/upgrading conductors and devices along with installing capacitors, switches, or other equipment; establishing new circuit outlets; converting circuit line sections to a higher operating voltage; and reconfiguring primary electric distribution circuits to redistribute loading. This program relates to safety, reliability, or maintenance because it corrects overloads on distribution equipment, mitigating the risk of equipment failure due to overloads.

MWC 07 – Electric Distribution Install/Replace OH Poles – Involves the replacement of poles to support safety and reliability of the electric distribution system. This program relates to safety, reliability, or maintenance because it actively works to determine whether poles are in good condition to prevent premature failure. This program enhances overall system safety by replacing poles identified as overloaded or nearing the end of in-service life, prior to premature failure.

MWC 08 – Electric Distribution OH Asset Replacement – Involves rebuilding and reframing OH electric distribution lines (including the installation of covered wire and non-wood electric distribution poles, and conversion of OH to UG); and performing other reliability and system hardening improvement work such as replacing annealed OH conductors and obsolete switches. This program relates to safety, reliability, or maintenance because it directly funds projects designed to replace OH equipment and rebuild electric distribution lines in high fire threat districts (HFTD) as part of PG&E's CWSP.

MWC 09 – Electric DA and Protection – Covers investments in substation automation and protection devices including installing or replacing substation Remote Terminal Units (RTU) and Human Machine Interfaces (HMI); installing or replacing SCADA peripherals; replacing obsolete protection equipment, primarily relays, in electric distribution substations; replacing automation or protection equipment due to unanticipated failure; and continuing the Fire Risk Management initiative that allows remote operation of reclose relays on certain circuit breakers and line reclosers to reduce the likelihood of wildland and urban fires. This program relates to safety, reliability, or maintenance because it directly funds projects which support the automation of substation equipment and electric distribution protective devices.

MWC 10 – Electric Distribution WRO General – Involves relocating electric distribution facilities at the request of a governmental agency or other third parties (e.g., customers and developers), Electric Generation Interconnection under Tariff Rule 21 and the Wholesale Distribution Tariff, and conversion of OH electric facilities to UG under Tariff Rule 20B and Rule 20C. This work is mandated by PG&E's electric tariff and franchise agreements. This program does not relate to safety, reliability, or maintenance.

MWC 16 – Electric Distribution Customer Connections – Involves installing the electric infrastructure required to connect new customers to PG&E's distribution system or to accommodate increased load from existing customers. Work activities include building new UG and OH primary electric distribution systems, and the associated secondary systems and services to both residential and nonresidential customers. This work category also includes all distribution transformer, secondary and service upgrade work to serve increased loads related to PEVs. PG&E is required by its approved electric tariff

and franchise agreements to perform this work. Additionally, included within this MWC are all purchases for distribution transformers for use in all types of capital work. This program does not relate to safety, reliability, or maintenance.

MWC 17 – Electric Distribution Routine Emergency – Involves activities related to the replacement of capital-related Electric Distribution infrastructure, in response to (1) a customer outage or an unsafe condition requiring immediate response and standby, and (2) trouble man assessment activities and switching of the system's configuration in response to OH and UG outages occurring during normal Level 1 conditions. This program relates to safety, reliability, or maintenance because it concerns the timely restoration of power following an outage and putting an imminent hazard in a safe condition.

MWC 21 – Miscellaneous Capital and EP&R – Includes costs to build critical infrastructure required for response to catastrophic emergencies and fire related situational awareness tools and resources. This includes costs for Emergency Operating Centers (EOCs), facility upgrades, communications and data infrastructure improvements, and natural disaster models. This also includes costs for IT enhancements related to PG&E Remote Grid mapping, monitoring, control, and outage management. This MWC may include an offset for capital related productivity improvements and work execution risk. This program relates to safety, reliability, or maintenance because work in this MWC is critical to effective emergency response and supporting the CWSP Management Office. MWC 21 also includes miscellaneous capital expenses such as ATS lab safety and reliability upgrades and the capital portion of support contracts, as applicable.

MWC 25 – Install New Electric Meters – Includes labor necessary to perform electric meter installations, exchanges, removals, and retirements. This MWC relates to safety, reliability, or maintenance because it supports the proper functioning of PG&E's metering infrastructure necessary to reliably deliver timely and accurate customer billing.

MWC 2A – Electric Distribution Preventive Maintenance (EDPM), OH – Involves replacing deteriorated OH facilities on a planned basis where it is not cost effective to repair those facilities. This work is like the work performed in MWC KA, but includes replacing equipment, rather than repair and maintenance. Typical equipment replacements include corroded transformers,

deteriorated cross-arms, inoperative line switches, and other OH electric distribution facilities. This equipment is replaced in kind in most cases; however, upgrades may be required where necessary to meet current operating conditions, technology, and safety standards. Work also includes replacing PG&E-owned, non-decorative High Pressure Sodium Vapor streetlights with LED streetlights and non-exempt surge arrester replacements. This program relates to safety, reliability, or maintenance because it addresses non-conforming equipment identified by preventative maintenance programs such as inspections and patrols, and internal operational processes (e.g., equipment testing) and mitigates the risk of failure of electric distribution overhead assets and/or wildfire risk. In addition, the streetlight replacements address certain assets (i.e., San Francisco Regulated Output (RO) Streetlights) that will improve illumination, increasing safety.

MWC 2B – EDPM, UG – Involves replacing deteriorated UG facilities on a planned basis where it is not cost effective to repair those facilities. This work is like the work performed in MWC KB, but includes replacing equipment, rather than repair and maintenance. Typical equipment replacements include corroded transformers, inoperative switches, damaged UG enclosures and other UG electric distribution facilities. Equipment is replaced in kind in most cases; however, upgrades are required where necessary to meet current operating conditions, technology, and safety standards. This program relates to safety, reliability, or maintenance because it addresses non-conforming equipment identified by preventative maintenance programs such as inspections and patrols, as well as internal operational processes (e.g., equipment testing) and mitigates the risk of failure of electric distribution underground assets.

MWC 2C – EDPM, Network – Involves replacing aging or deteriorated network facilities on a planned basis where it is not cost effective to repair those facilities. This work is similar to the work performed in MWC KC, but includes replacing equipment, rather than repair and maintenance. Typical equipment replacements include corroded transformers, inoperative switches, and other network distribution facilities. Equipment is replaced in kind in most cases; however, upgrades are required where the equipment must meet current operating conditions, technology, and safety standards. Additional work includes safety improvement programs such as High-Rise Building Transformer

Replacements, new monitoring system installation and the Manhole Cover Replacement Program. This program relates to safety, reliability, or maintenance because it addresses the replacement of aging or faulty network equipment identified by the preventative maintenance program in addition to the planned new equipment upgrades, which is fundamental to maintaining a safe and reliable distribution network system.

MWC 2F – Build IT Applications and Infrastructure – Includes the costs to design, develop and enhance applications, systems, and infrastructure technology solutions. This program relates to safety, including grid safety, reliability, or maintenance by developing, enhancing, and deploying IT solutions that provide PG&E's field and office employees with the tools that support them in performing their jobs in a safe and efficient manner. These tools are intended to provide up-to-date, complete, and accurate information to enable coordination of work and asset data across all work streams to support mitigation of wildfire risk, enhance grid safety and operational efficiency. The areas covered by this MWC include asset design, asset management and work management.

MWC 30 – Electric Distribution WRO – **Rule 20A** – Involves conversion of existing OH electric distribution facilities to UG facilities. To qualify under the Rule 20A Tariff, a project must meet certain criteria including being in the public interest and having sufficient work credits to convert the facilities. Since 2017, these costs are included in the one-way Rule 20A balancing account authorized by D.17-05-013. This program does not relate to safety, reliability, or maintenance.

MWC 3U – Install/Replace Wildfire Mitigation Equipment – This MWC records costs for wildfire mitigation work, including undergrounding of existing OH electric distribution lines. This program relates directly to safety, reliability, or maintenance because it addresses priority work in HFTDs based on wildfire risk modeling and serves as a mitigation to reduce the consequence or frequency of risk of failure of electric distribution overhead assets and of risk of wildfire. Work may also be associated with (1) rebuild of fire impacted areas, (2) PSPS mitigation, or (3) Public Safety Specialist (PSS) identified areas; and is completed in compliance with PG&E's Fire Rebuild Design Guidance for System Hardening.

MWC 46 – Electric Distribution Substation Capacity – Involves capacity expansion work within substations necessary to correct capacity deficiencies. This work includes new substations, increased capacity at existing substations, and work on feeders/breakers within a substation. This program relates to safety, reliability, or maintenance because it corrects overloads on substation equipment, mitigating the risk of equipment failure due to overloads.

MWC 48 – Electric Distribution Substation Replace Other Equipment – Involves all major and minor substation equipment replacements not included in MWC 54 (Transformer Program). Specific sub-programs include:
(1) Switchgear Replacement; (2) Circuit Breaker Replacement; (3) Animal Abatement; (4) Battery Replacement; (5) Distribution Line Work Support; and (6) Other Equipment Replacement Work. This program relates to safety, reliability, or maintenance because it targets proactive substation equipment replacement and measures to mitigate outages caused by animal contact or by equipment failures.

MWC 49 - Electric Distribution Circuit/Zone Reliability Program -Involves various circuit reliability improvement work to address repeat outages and customer service-level complaints. This program also includes the purchase of line reclosers (revolving stock), the installation of Fault Location, Isolation, and Service Restoration (FLISR) systems, and the targeted circuit initiative which addresses the least reliable circuits and typically involves a mixture of installing new fuses, reclosers, fault indicators and animal and bird quards, reframing poles to increase phase separation, and repairing or replacing existing equipment. This work also supports the EPSS program through the installation of Fuse Savers to reduce the impact of EPSS outages, Fault Indicators to isolate outage patrol areas, and installation of Down Conductor Detection technology to capture high impendence fault conditions that could generate a wildfire ignition. This program relates to safety, reliability, or maintenance because it directly supports the implementation of targeted capital projects designed to improve electric service reliability and address customer outage complaints.

MWC 54 – Electric Distribution Substation Transformer

Replacements – Involves maintaining or improving substation reliability by replacing transformers that have the highest risk of failure. This MWC also

includes maintaining an adequate supply of emergency transformer stock and mobile transformers for emergency response. This program relates to safety, reliability, or maintenance because it is the proactive planned replacement of substation transformers to improve them and prevent transformer failures.

MWC 56 – Electric Distribution UG Asset Replacements – Includes reliability related replacement of primary electric distribution cables (includes tie-cables), primary and secondary Network Cables, non-emergency related failed primary electric distribution cables, Transfer Ground Rocker Arm Main (TGRAM)/Transfer Ground Rocker Arm Line (TGRAL) switches, Load Break Oil Rotary (LBOR) switches, and replacement of failed primary electric distribution cables. This program also includes performing cable rejuvenation (injection) and testing and the installation of temperature monitors on targeted oil-filled subsurface equipment. This program relates to safety, reliability, or maintenance because it addresses assets that have deteriorated and/or are experiencing failures, some of which may pose safety risk to employees and public if they fail.

MWC 58 – Electric Distribution Substation Safety and Security – Involves fire protection and suppression, seismic, and security work. This program relates to safety, reliability, or maintenance because it targets work that prevents potential hazards within the substation through the installation or upgrade fire suppression systems, seismic retrofit of control buildings, and the installation of security cameras and card readers.

MWC 59 – Electric Distribution Substation Emergency Replacements – Involves substation emergency equipment replacements that fall into two categories: (1) replacement of equipment that has failed in service; and (2) replacement of equipment intentionally removed from service (or "forced out") because PG&E has determined that imminent failure is likely to occur. This program relates to safety, reliability, or maintenance because it provides emergency response to restore service and a return from abnormal configuration.

MWC 63 – EO Control Center Facility and Operational Technology – Covers ongoing capital improvements to operational technology used in DCCs including applications such as ADMS and Distributed Energy Resource Management System. Work activities include designing, building, testing, and

deploying enhancements to Operational Technology. This program relates to safety, reliability, or maintenance due to its association with SCADA control over field equipment, outage management applications, operator awareness of real time circuit conditions, enhanced cybersecurity, and integration of distributed energy resources.

MWC 95 – Electric Distribution Major Emergency – Involves response to significant OH or UG outages and/or imminent hazard to PG&E's electric distribution facilities that requires division Emergency Operating Center (EOC) activation and is consistent with PG&E's Major Emergency Balancing Account (MEBA) Criteria Guidance Document. Since 2014, these costs are included in the two-way MEBA authorized by D.14-08-032. This program relates to safety, reliability, or maintenance because the costs incurred are for timely response and restoration following power outages.

F. MAT Code Descriptions – Expense

MAT AB6 – EP&R – EP&R expense cost. This program relates to safety, reliability, or maintenance because this work drives the company emergency response plan for customer safety, and timely outage restoration. The program also includes the PSPS events and non-events activities, EPSS, and Safety Infrastructure Protection Team (SIPT). This MAT code also includes the costs for wildfire situational awareness related program forecast in the 2023 GRC including the Wildfire Safety Operations Center, SIPT, Meteorology-related projects (including Advanced Fire Modeling), and wildfire cameras.

Some activities forecasted in AB6 were recorded to a new MWC WF including, PSPS event and non-event costs, EPSS costs, SIPT costs and Situational Awareness and Forecasting costs.

MAT AB# – Miscellaneous expense, other – Other costs related to: support, PSPS event activities and nonevent preparation; wildfire situational awareness related programs; PMO work related expenses for CWSP, System Hardening and PG&E Remote Grids programs. See MWC AB for how this MAT relates to safety, and/or reliability, and/or maintenance.

MAT AT# – Emerging Technology, other – Involves support for other costs related to external partnerships and initiatives supporting emerging technology solutions that may eventually be implemented to improve PG&E's

grid. See MWC AT for how this MAT relates to safety, and/or reliability, and/or maintenance.

MAT BAF – General Operations – Involves Distribution Operation's management and control the electric distribution system. Activities include monitoring the distribution system; performing system configuration changes, such as switching and circuit reconfiguration; and processing switching applications for work that enables construction to maintain and improve electric distribution system infrastructure, including EPSS related work. This program relates to safety, reliability, maintenance because the activities allow for timely response and restoration during emergencies and power outages.

MAT BAH – Power Quality and Distribution Operations Engineers

Support – Involves responding to customer voltage complaints, assessing, and identifying potential overloading, and providing guidance to Distribution System Operators regarding load transfers and circuit reconfigurations. This program relates to safety, reliability, or maintenance because it enables the timely response and restoration during emergencies and power outages.

MAT BA# Electric Distribution Operation Activities Other – Includes miscellaneous electric control center and field operations costs. This MAT also includes costs incurred by distribution operators and engineers performing work. See MWC BA for how this MAT relates to safety, and/or reliability, and/or maintenance.

MAT BF1 – Distribution Aerial Inspections – Involves inspection of OH electric distribution facilities to examine and record abnormal conditions that will adversely impact safety or reliability. Inspected facilities include PG&E solely- and jointly-owned distribution poles, including all equipment and facilities on the pole; primary and secondary risers and services; primary and secondary conductor; transmission poles with electric distribution under build; electric distribution towers and lattices; streetlights on PG&E solely owned or jointly-owned distribution poles. This program relates to safety, reliability, or maintenance because it examines and records abnormal conditions of assets that will adversely impact safety, reliability, or asset life, needing repair or replacement.

MAT BF3 – UG Bay Area Rapid Transit (BART) Cable

Testing/Inspections – Involves annual UG inspections/testing of 34.5 kilovolts

(kV) BART Cable for compliance with Utility Standard TD-2302S. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of underground asset failure by proactively identifying abnormal conditions that will adversely impact safety, reliability, or asset life, needing repair or replacement.

MAT BF4 – UG Auto Transfer Switch Testing/Inspections – Involves annual UG inspections/testing of individual electronic-component style and microprocessor style Auto-Transfer Switches (ATS) for compliance with Utility Standard TD-2302S. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of underground asset failure by proactively identifying abnormal conditions needing repair or replacement.

MAT BFA – OH Poles Patrolled – Involves visual patrol of OH electric distribution facilities to identify obvious structural problems or hazards for compliance with GO 165 and the Electric Distribution Preventative Maintenance (EDPM) Manual. Patrolled facilities include primary, secondary, and service, and other associated electric distribution facilities from the substation, including poles within the substation fence, to the end of the line. Towers supporting only electric distribution facilities are included in the OH patrol. Patrols can be performed from a vehicle, on foot, or by helicopter. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and risk of wildfire by proactively identifying abnormal conditions or hazards needing repair or replacement.

MAT BFB – OH Poles Inspected – Involves detailed inspections of OH electric distribution facilities to examine and record abnormal conditions that will adversely impact safety or reliability for compliance with GO 165 and the EDPM Manual. Inspected facilities include PG&E solely and jointly-owned distribution poles, including all equipment and facilities on the pole; primary and secondary risers and services; primary and secondary conductor; transmission poles with electric distribution under build; electric distribution towers and lattices; streetlights on PG&E solely owned or joint pole distribution poles. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution

overhead assets and risk of wildfire by proactively identifying abnormal conditions needing repair or replacement.

MAT BFC – OH Infrared Inspections – Involves infrared inspection of OH electric distribution facilities to identify pending failure of equipment. Work includes contractor-performed reliability work and internally performed ad hoc requests. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and risk of wildfire by proactively identifying areas of deterioration and degradation needing repair or replacement.

MAT BFD – UG Enclosures Patrolled – Involves visual patrol of UG electric distribution facilities to identify obvious structural problems or hazards for compliance with GO 165 and the EDPM Manual. Patrolled facilities include pad-mounted equipment, primary enclosures, and visible secondary enclosures outside the substation fence to the end of the line. An UG patrol may be performed by walking or driving. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of underground asset failure by proactively identifying structural problems or hazards needing repair or replacement.

MAT BFE – UG Infrared Inspections – Involves detailed visual and infrared inspection of UG electric distribution facilities to examine and record abnormal conditions that will adversely impact safety or reliability for compliance with GO 165 and the EDPM Manual. Inspected facilities include pad-mounted facilities; all UG equipment, conductors, splices, and elbows within primary enclosures; primary metering that includes all visible, primary cable up to termination point plus the primary metering facilities. An infrared inspection must be performed in conjunction with UG inspections. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of underground asset failure by proactively identifying areas of deterioration and degradation needing repair or replacement.

MAT BFF – UG Line Equipment Inspected and Tested – Involves annual inspections of UG electric distribution line equipment for compliance with Utility Standard TD-2302S. Facility inspections only include manholes with special equipment (i.e., oil-filled equipment). 34.5 kV BART Cable Inspections and Auto-Transfer Switch (ATS) Inspections are performed and tracked in MATs BF3

and BF4, respectively. This program relates to safety, reliability, or maintenance because it proactively identifies abnormal conditions, that could negatively impact safety, reliability, or asset life, needing repair or replacement.

MAT BFG – OH Line Equipment Inspected and Tested – Annual inspections/testing of OH, pad-mounted, and UG electric distribution line equipment for compliance with Utility Standard TD-2302S. Facilities include capacitors, regulators, reclosers, and SCADA operated switches, interrupters, and sectionalizers. This program relates to safety, reliability, or maintenance because it serves to proactively identify abnormal conditions, that could negatively impact safety, reliability, or asset life, needing repair or replacement.

MAT BFH – Inspection Projects – This MAT includes miscellaneous special projects as requested by Asset Strategy. Projects include inspections or patrols of equipment determined to present safety related conditions. Some projects are multi-year while others are single year. Other projects are related to re-inspections or re-patrol as needed because of work verifications and are required by GO 165. Other funding in this MAT is related to UG inspection sticker costs required as part of the UG inspections. This program relates to safety, reliability, or maintenance because it enables the inspections programs to meet its overall objectives of a safe and reliable electric distribution system. The program's support activities serve as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and risk of wildfire.

MAT BFJ – OH Patrol Outage Review Team (ORT) Post Outage – For requested post-outage patrols as an action from an ORT meeting. Work scope (including the area to be patrolled and the volume of poles and enclosures) must be identified during the ORT meeting. This includes UG Infrared requests. This program relates to safety, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT BF# Electric Distribution Patrols and Inspections, other – Other costs related to patrols and inspections of OH and UG electric distribution facilities. See MWC BF for how this MAT relates to safety, and/or reliability, and/or maintenance.

MAT BKA – Line Equipment Overhauls (Emeryville) – For Emeryville's use only of scheduled transformer repair. This program relates to safety,

reliability, or maintenance because it involves the overhaul, repair, and testing of all distribution line equipment at the Emeryville Repair facility.

MAT BKJ – Line Equipment Overhauls (Division Up/Down Labor) (Emeryville) – For Emeryville's use only of scheduled equipment overhauls of electrical distribution equipment: regulators, auto boosters, and reclosers. This program relates to safety, reliability, or maintenance because it involves the overhaul, repair, and testing of all distribution line equipment at the Emeryville Repair facility.

MAT BKK – Equipment Warranty Repair (Emeryville) – For Emeryville's use only of scheduled equipment warranty repairs. This program relates to safety, reliability, or maintenance because the equipment is repaired or replaced under the manufacturer's warranty period, at the Emeryville Repair facility.

MAT DDC – Electric Start/Stop – Includes activities for electric service turn-ons and shut-offs initiated by customers, which are mainly performed by Field Metering resources at commercial, industrial and agricultural customer premises. This program relates to safety, reliability, or maintenance because it safely establishes or terminates electric service at the request of customers.

MAT DDH – Electric Trouble Customer Equipment – Involves addressing part outages (which occur when a customer is only receiving energy to a portion of their home or business for various reasons, including burnt out fuses, customer wiring, service connection at the weather-head, etc.) or complete outages related to customer equipment. This program relates to safety, reliability, or maintenance because it serves to restore customer service to a safe and reliable operating condition.

MAT DDJ – Swing Service, Disconnects/Reconnects – Involves activities required to: (1) provide swing service, which is the transfer of service from an old location to a new location using the existing wire; (2) provide service upgrades; (3) temporarily disconnect service, such as a temporary disconnects at a customer's request to enable tree trimming, weather-head or panel work; and (4) reconnect service due to disconnects for items such as tree trimming, panel or weather-head work by customer, etc. This program relates to safety, reliability, or maintenance because it serves to reconnect, temporarily disconnect, or upgrade service and ensure safe operating conditions.

MAT DD# Provide Field Service, other – Includes other costs related to customer generated requests for service that require a site visit by a field technician. See MWC DD for how this MAT relates to safety, and/or reliability, and/or maintenance.

MAT FZA – General Engineering – Work primarily covers electric distribution engineering and planning services labor, which includes wires down investigations. This includes costs associated with new OH fault indicators or distribution line monitoring systems and/or line sensors to improve reliability. This also includes costs associated with EPSS to mitigate wildfire ignition risk. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and risk of wildfire by providing the electrical engineering labor for reliability and EPSS related programs.

MAT FZB – Voltage Complaints Investigations – Used for investigating secondary voltage complaints that PG&E Troublemen cannot resolve on the first visit, and the setting of recording volt meters for these voltage complaints. This program relates to safety, reliability, or maintenance because it addresses voltage issues on distribution circuits to support safe and reliable operation of customer equipment.

MAT FZC – Transformer Reports Manage – Used for investigating overloaded and idle transformers. This program relates to safety, reliability, or maintenance because it addresses overloaded transformers and mitigate risks of equipment failure caused by overloads.

MAT FZD – Field Work Plan – Used for supporting operational field work that engineering personnel initiate, such as phase balancing and replacing fuses projected to be overloaded. This program relates to safety, reliability, or maintenance because it supports the field work necessary to solve overload and imbalance issues, thereby mitigating equipment failure caused by overloads and outages caused by load imbalance.

MAT FZE – Trouble-men Field Work – Field Personnel performing seasonal, permanent, and emergency load transfer field switching, change settings related to seasonal capacitors, or perform special load/voltage readings/setting changes when specifically requested by the Electric Distribution Engineers and directed by the DCC Operator. This includes costs associated

with EPSS to mitigate wildfire ignition risk. This program relates to safety, reliability, or maintenance because it supports the field work necessary to resolve voltage issues and provide proper device protection for reliability.

MAT GAA – Intrusive Inspection Program – Intrusive testing and treatment of wood poles. Compliance inspection program for GO 95 and GO 165. This program relates to safety, reliability, or maintenance because it actively works to determine that poles are in good condition to prevent premature failure, and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and risk of wildfire. In addition, this program satisfies the safety and maintenance requirements of GO 95 and 165.

MAT GAB – Pole Joint Utilities Maintenance Reimbursement – Engineer review of pole attachment requests submitted by third-party utilities. This program relates to safety, reliability, or maintenance because it actively works to determine that poles are in good condition to prevent premature failure. In addition, this program satisfies the safety requirements by ensuring poles meet the strength and loading requirements of GO 95.

MAT GAC – Pole Analyze Loading – Engineer review and analysis of distribution wood pole loading for an overload condition. If the pole is determined to not be overloaded, then assessment and analysis remains in MAT GAC. However, if the pole is determined to be overloaded, then the MAT changes to 07O to replace the pole. This program relates to safety, reliability, or maintenance because it actively works to determine that poles are in good condition to prevent premature failure and serves as a risk control to reduce the frequency or consequence of risk of wildfire. In addition, this program satisfies the safety requirements by ensuring poles meet the strength and loading requirements of GO 95.

MAT GAD – Pole Restoration Program – Involves reinforcing deteriorated, decayed, or damaged poles with steel trusses. This program typically follows one year behind Pole Test and Treat program and restores poles to original design strength. This program relates to safety, reliability, or maintenance because it actively works to prevent premature failure of wood poles, and serves as a risk control to reduce the frequency or consequence of risk of failure of

electric distribution overhead assets and risk of wildfire. In addition, this program satisfies the safety and maintenance requirements of GOs 95 and 165.

MAT GAF – Joint Utilities Telecom Engineer Review Non-reimbursed – Telecommunications engineer pole attachment request review for jointly owned wood poles. This program relates to safety, reliability, or maintenance because it actively works to determine that poles are in good condition to prevent premature failure, and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.. In addition, this program satisfies the safety requirements by ensuring poles meet the strength and loading requirements of GO 95.

MAT GAH – Joint Utilities Maintenance Non-reimbursed – Includes PG&E's membership share of the operating costs and participation in the Northern California Joint Pole Association and the Joint Pole Database maintenance costs for continued operation. This program relates to safety, reliability, or maintenance because the costs are incurred to prevent premature failure, and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets. In addition, this program enables communication with other utilities, to determine that poles meet the safety, strength and loading requirements of GO 95.

MAT GA# – Poles – Intrusive Inspection/Test and Treat Program, other – Includes other costs related to assessing conditions of poles and costs related to billing for work performed on jointly owned poles in MATs GAA and GAD. See MWC GA for how this MAT relates to safety, and/or reliability, and/or maintenance.

MAT GC1 – Electric Distribution Substation: Engineering Maintenance Support – Includes distribution substation costs in engineering and other maintenance support. This program relates to safety, reliability, or maintenance because it includes substation engineering support necessary for operation of substation equipment and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets and of risk of wildfire.

MAT GC2 – Electric Distribution Substation: Major Emergency

Corrective Maintenance – This includes major emergencies and emergent
work supporting unforeseen emergencies/major repairs and emergent work with

high reliability impact or system-wide risk, such as: anticipated major substation emergencies, mobile equipment maintenance and spare transformers testing for emergency readiness, large transformer oil leak repairs, animal abatement repairs, deteriorated foundation repairs, corrosion repairs, locate and mark distribution line assets within substation facilities. This also includes work associated with EPSS to mitigate wildfire ignition risk. This program relates to safety, reliability, or maintenance because it addresses emergencies and emergent maintenance work to prevent imminent failures, and serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT GC5 – Electric Distribution Substation: Distribution Substation Supplemental Inspections – Includes supplemental inspections to address ignition threats at substations. This program relates to safety, reliability, or maintenance because it identifies and addresses ignition threats at substations.

MAT GCA – Electric Distribution Substation: Transformer Preventive Maintenance – Includes distribution substation costs for transformers, regulators, and Load Tap Changer (LTC) Oil Tests. This program relates to safety, reliability, or maintenance because it monitors Transformer and LTC condition and identifies any abnormalities that may lead to a potential mis-operation of the transformer and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT GCB – Electric Distribution Substation: Circuit Breaker

Preventive Maintenance – Includes distribution substation costs for breaker exercises. This program relates to safety, reliability, or maintenance because it confirms functional operation of the circuit breaker and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT GCC – Electric Distribution Substation: Relay Preventive

Maintenance – Includes distribution substation costs for relay functional tests.

This program relates to safety, reliability, or maintenance because it inspects the relay schemes and tests the condition of the relay to prevent mis-operation and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets and risk of wildfire.

MAT GCD – Electric Distribution Substation: Inspections – Includes distribution substation costs for cyclical station inspection of equipment. This program relates to safety, reliability, or maintenance because inspections such as Equipment Inspection, Security Check, Environmental Check, and Load Data Collection are performed to identify non-conforming equipment or operations to address within the substation and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT GCE – Electric Distribution Substation: General Station

Preventive Maintenance – This program includes distribution substation costs for preventive maintenance tasks on variety of other types of substation equipment. This program relates to safety, reliability, or maintenance because tests are performed on minor substation equipment (e.g., hot washes, mobile exercises, fire system tests, etc.) not specifically captured under other specified maintenance programs to inspect and identify any abnormalities, and the program serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT GCF – Electric Distribution Substation: Battery Preventive

Maintenance – This program includes distribution substation work related to
battery testing. This program relates to safety, reliability, or maintenance
because inspections, tests (e.g., resistance and discharge tests) are performed
on batteries to identify any abnormalities and determine the batteries can
perform as designed, and the program serves as a risk control to reduce the
frequency or consequence of risk of failure of electric distribution substation
assets.

MAT GCG – Electric Distribution Substation: Vegetation Management (VM) – This program includes distribution substation work related to mitigating vegetation growth, creating Defensible Space, and addressing other issues in and around the substation parcel; including, routine vegetation control, rodent control, transient encampment clean-up, mowing, and other fuel reduction type work for compliance with local laws and administration of the program. This program relates to safety, reliability, or maintenance because it involves vegetation management activity that serves as a risk control to reduce the

frequency or consequence of risk of failure of electric distribution substation assets and risk of wildfire.

MAT GCH – Electric Distribution Substation: Building Maintenance – This program includes distribution substation work related to substation facility/building and yard work such as repair to breaches in station fences, roof leaks, plumbing repairs, station security such as lighting and card readers, etc. This program relates to safety, reliability, or maintenance because it involves maintaining substation facilities and buildings that serve as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT GCI – Electric Distribution Substation: Switch Preventive

Maintenance – This program includes distribution substation work related to switch diagnostic/performance tests. This program relates to safety, reliability, or maintenance because diagnostic testing and infrared inspections performed on switches serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT GCJ – Electric Distribution Substation: **Corrective (T80)** – This program includes distribution substation work related to repair work initiated from corrective notifications for issues identified by field personnel. This program relates to safety, reliability, or maintenance because it involves repairs beyond planned/scheduled maintenance.

MAT GCM – Electric Distribution Substation: Circuit Breaker

Mechanism Services – This program includes distribution substation work
related to breaker mechanism services, including required breaker oil and gas
analysis. This program relates to safety, reliability, or maintenance because it
involves the mechanism service of the circuit breaker to determine whether it is
operating properly that serves as a risk control to reduce the frequency or
consequence of risk of failure of electric distribution substation assets.

MAT GCO – Electric Distribution Substation: Transformer Overhaul Inspections – This program includes distribution substation work related to transformer/regulator LTC overhaul inspections. This program relates to safety, reliability, or maintenance because it involves the overhaul inspection of transformer and regulator LTC to detect deterioration or abnormal conditions.

This program serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets

MAT GCS – Electric Distribution Substation: Circuit Switcher & Motor-Operated Air Switch (MOAS) Mechanism Services – This program includes distribution substation work related to circuit switcher and MOAS mechanism services. This program relates to safety, reliability, or maintenance because it involves mechanism service related specifically to the performance of circuit switches and MOAS (e.g., performing open and closing operations manually and/or under remote test conditions). This program serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT GCV – Electric Distribution Substation: Circuit Breaker Overhauls – This program includes distribution substation work related to circuit breaker overhauls. This program relates to safety, reliability, or maintenance because it involves the circuit breaker overhaul which includes a detailed list of maintenance tasks to determine the circuit breaker is operating as designed. This program serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT GCW – Electric Distribution Substation: **Station Washes** – This program includes distribution substation work for station insulator washing. This program relates to safety, reliability, or maintenance because it involves washing insulators to prevent contamination accumulation that may result in a flashover. This program serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT HGC – ADMS Development – This program includes expense associated to the multi-year grid modernization effort to consolidate distribution operational technology platforms into a single platform (ADMS). This program relates to safety, reliability, or maintenance because it enables outage management applications that include instantaneous fault location, automated switching recommendations and promotes operator awareness of Real Time (RT) circuit conditions. This project directly supports DCC operations.

MAT HGD – Distribution Operational Technology – This program relates to DCC Systems installation and replacement. Used to track expense improvements and enhancements at the DCCs. This program relates to safety,

reliability, and maintenance by supporting the development and daily operation of RT applications/tools used to safely operate and maintain distribution system reliability.

MAT IGI – Dead and Dying Trees – This program reduces risk associated with increased tree mortality due to extended drought and bark beetle infestation within PG&E's service territory by the targeted removal of dead and dying trees and certain species pose an increased risk of falling into power lines. Work activities include vegetation inspection and mitigation in designated areas, the resulting tree work and wood management as determined necessary, and fire safe council fuel reduction program activity to help prevent wildfires and protect communities. This program relates to safety, reliability, or maintenance because it serves as a risk control, related to the vegetation risk driver, to reduce the frequency or consequence of risk of wildfire and risk of failure of electric distribution overhead assets.

MAT IGJ – Enhanced Vegetation Management (EVM) – EVM program work is intended to reduce wildfire risk in high fire threat areas. EVM meets standards requiring creating clearances of 12 feet or more at time of trim to ensure compliance until the next inspection. The program covers pre-inspections, tree trims and removals, work validation through QA and quality control, targeted species work, and fuel reduction. Additionally, starting in 2023, other programs recorded in this MAT include OneVM, Focused Tree Inspections, Vegetation Management for Operational Mitigation, Tree Removal Inventory, Wood Management, and Utility Defensible Space. This program relates to safety, reliability, or maintenance because it serves as a mitigation, related to the vegetation risk driver, to reduce the frequency or consequence of risk of wildfire and risk of failure of electric distribution overhead assets.

MAT IG# Manage Var Bal Acct Processes, other – Includes other costs related to various balancing and memorandum account activity. See MWC IG for how this MAT relates to safety, and/or reliability, and/or maintenance.

MAT KAA – OH General CM Tag – This program involves repairing OH facilities or replace individual components that are not an imminent hazard and have not caused an outage. Facilities include connectors, insulators, low conductors, leaning poles, slack guys, etc. Work also includes the repair, replacement, or installation of grounds, moldings, leaking bushings, and related

work on all OH transformers and equipment associated with transformers. This program relates to safety, reliability, or maintenance because it addresses non-conforming equipment and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and of risk of wildfire.

MAT KAC – Bird Safe Retrofit – This program involves repairing, replacing, or installing bird-guard materials such as insulated jumpers, bushing covers, line covers, or perching platforms on incident and/or adjacent poles for bird safety, per United States Fish and Wildlife Service (USFWS) requirements and Utility Operating Standard TD-2321S. This program relates to safety and reliability by mitigating outages due to bird incidents and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and of risk of wildfire.

MAT KAD – Bird Safe Retrofit Annual – This program installs bird-guard materials such as jumper covers, bushing covers, perch guards, or perching platforms on poles identified in the Annual Pole Retrofit Program for bird safety, per USFWS requirements and Utility Operating Standard TD-2321S. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of wildfire.

MAT KAF – OH COE Corrective Maintenance – This program activity includes the corrective maintenance of COE; certain defined equipment including Protective Devices (Reclosers, Cutouts, Sectionalizers), Voltage Devices (Regulators, Boosters), Switches (Switches, Disconnects), Capacitors, and Conductors. Maintenance on COE plays an important role in preventing customer interruptions or minimizing the impacts from an outage. The program also includes ordering batteries for work in MAT BFG. This program relates to safety, reliability, or maintenance because it addresses non-conforming equipment and serves as a risk control to reduce the frequency or consequence of risk of wildfire.

MAT KAH – Streetlight Replace Burnouts – This program includes activities to repair or replace lamps, photocells, and related items associated with nonoperating streetlights. If the street light head needs replacement, the time and material to replace the head is charged to 2AA. If the burnout is caused by a secondary UG failure, the time and material to make the repair is

charged to 2BA. This program relates to safety, reliability, or maintenance because it addresses non-conforming equipment and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT KAK – RTVI Investigations/Repairs – This program involves the investigation of RTVI where cause is linked to Company equipment. This program relates to safety, wildfire mitigation, reliability, or maintenance because it addresses potential non-conformances identified by customers.

MAT KAM – Insulator Washing – This program includes washing pole-mounted insulators. This program relates to safety, reliability, or maintenance because it prevents pole top ignitions.

MAT KAO – Idle Facilities Investigations Service Planning – This program involves investigations by Service Planning to assess whether identified idle facilities have a foreseeable future use. This program relates to safety, reliability, or maintenance because it identifies idle facilities for removal and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets. If an idle facility is confirmed, the removal work will fall under MAT codes 2AF and 2BF.

MAT KAP – OH Expense Projects – This program includes the replacement of OH electric facilities that are not an imminent hazard and have not caused an outage. The program also includes pre-planned projects such as actuator board replacements. This program relates to safety, wildfire mitigation, reliability or maintenance because it mitigates the risk of equipment failure from identified Material Problem Reporting (i.e., material and/or equipment found as defective, failed, or not meeting PG&E requirements) and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT KAQ – Wood Pole Bridge Bonding – This program conducts wood pole bonding, a maintenance activity where an existing wood pole supporting both electric transmission and distribution line facilities is retrofitted with grounding protection to prevent fires that can occur at the location on the pole where the electric distribution cross arm is bolted to the pole. This program relates to safety, reliability, or maintenance because it serves to prevent ignitions

by ensuring grounding protection and serves as a risk control to reduce the frequency or consequence of risk of wildfire.

MAT KAS – FAS OH Expense – FAS OH expense is work that is identified during a field job and completed by a single Trouble-man. This program relates to safety, reliability, or maintenance because it addresses non-conforming conditions identified by preventative maintenance programs such as Trouble-men patrols, and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT KAT – Remote Grid Maintenance – This MAT code is for routine and ad hoc maintenance on Remote Grids conducted by PG&E and its qualified contractors. Many of these costs are service fees under a Remote Grid maintenance agreement with a qualified contractor; remaining costs are related to internal maintenance services and contract management. Remote Grids provide utility service using Standalone Power Systems (SPS) and utility infrastructure for continuous, permanent energy delivery to remote locations in HFTDs. The primary purpose of a Remote Grid is to reduce wildfire ignition risk by eliminating OH distribution lines that serve a small number of customers in HFTD at the outskirts of the distribution system. This program relates to safety, reliability, or maintenance because PG&E Remote Grid systems mitigate wildfire risk.

MAT KA# Preventive Maintenance and Equipment Repair, OH Other – Other costs related to preventative maintenance and repair of nonconforming OH equipment. See MWC KA for how this MAT relates to safety, and/or reliability, and/or maintenance.

MAT KBA –UG General CM Notifications – This program includes the repair UG facilities (including UG infrared tags) or replacement of individual components that are not an imminent hazard and have not caused an outage. Includes cleaning enclosures, re-securing equipment, resurfacing lids, and tagging; repairing, replacing, or installing grounds, moldings, leaking bushings; and completing related work on all UG transformers and equipment associated with transformers. This program relates to safety, reliability, or maintenance because it addresses non-conforming equipment and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets..

MAT KBC – UG COE CM Notifications – This program includes the repair of UG COE. This program relates to safety, wildfire mitigation, reliability, or maintenance because it identifies certain asset life replacements (e.g., UG Cable Testing) and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT KBD – Nitrogen Cylinders CM – This program includes the replacement of Nitrogen Cylinders (San Francisco and East Bay division only annual nitrogen-cylinder replacements). This program relates to safety, reliability, and maintenance because it maintains sufficient nitrogen levels in cables where leaking naturally occurs and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT KBE – BART Cable Repair – This program includes the repair of 34.5 kV BART Cable issues identified during annual inspections/testing performed under MAT BF3. This program relates to safety, wildfire mitigation, reliability, and maintenance because it checks whether cables are in proper operating condition, remediating problems caused by leaks, corrosion, movement of support tracks, gas pressure, etc. and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT KBP – UG Expense Projects – This program includes the projects for the replacement of UG electric facilities that are not an imminent hazard and have not caused an outage. This program relates to safety, wildfire mitigation, reliability, or maintenance because it addresses WYE (three-phase star configuration) transformer grounding configurations and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT KB# Preventive Maintenance and Equipment Repair, UG Other – Includes other costs related to preventative maintenance and repair of nonconforming UG equipment. See MWC KB for how this MAT relates to safety, and/or reliability, and/or maintenance.

MAT KCA – Network Equipment CM Notifications – This program includes the repairs related to network transformers and NPs, excluding oil replacement work. This program relates to safety, reliability, or maintenance

because it addresses problems found on the network equipment and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution network assets.

MAT KCB – Network Transformer Oil Replacement and 60-Day
Follow Up Notifications – This program includes the replacement of oil in
network primary termination chambers or network ground switches and the
resample of network transformer oil. The replacement of the oil at the network
transformer chamber is needed to maintain safe operation. This program relates
to safety, reliability, or maintenance because it addresses issues identified in
sample oil during laboratory testing and serves as a risk control to reduce the

frequency or consequence of risk of failure of electric distribution network

MAT KCC – Network Vault CM Notifications – This program work involves vault environmental cleanup, excluding work associated with network transformers and NPs. This program addresses hazardous conditions identified in the vaults. The cleanup is for the safety and health of personnel working inside the vault. This program relates to safety, reliability, or maintenance

because it serves as a risk control to reduce the frequency or consequence of

risk of failure of electric distribution network assets.

MAT KCD – Network Transformer Preventive Maintenance/Restore
Notifications – This program involves annual maintenance on network
transformers and associated oil-filled chambers. Includes oil sampling on all
chambers and pressure testing of units. This program relates to safety,
reliability, or maintenance because it addresses the maintenance of network
transformers for safe and reliable operation and serves as a risk control to
reduce the frequency or consequence of risk of failure of electric distribution
network assets.

MAT KCE – Network Protectors (NP) Preventive Maintenance

Notifications – This program relates to routine maintenance of NPs conducted once every three years (triennial), excluding repairs costing more than \$500 or requiring greater than one hour that are covered by MAT code KCA. This program relates to safety, reliability, or maintenance because it addresses the maintenance of NPs for safe and reliable operation and serves as a risk control

to reduce the frequency or consequence of risk of failure of electric distribution network assets.

MAT KCF – Fiber Optic/SCADA Communications Repair Notifications – This program includes repair of existing network SCADA and fiber optics systems, including communication. This program relates to safety, reliability, or maintenance because it addresses the problems found on the existing network SCADA and fiber optics systems as needed for safe and reliable operation and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT KC# Preventive Maintenance and Equipment Repair, Network other – Other costs related to preventative maintenance and repair of nonconforming network equipment. See MWC KC for how this MAT relates to safety, and/or reliability, and/or maintenance.

MAT WFC – Cameras – This program supports sponsorship, operations and maintenance of pan-tilt-zoom cameras that are a part of the ALERTCalifornia Network. Based at the University of California San Diego, ALERTCalifornia is a public safety program working to understand wildfires and other natural hazards. This program manages a network of more than 1,000 monitoring cameras and sensor arrays from multiple partners, such as PG&E, and collects data that provides actionable, real-time information to inform public safety. This program relates to safety, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT WFM – Other Wildfire Support Expenses – This program supports Advance Fire Modeling initiatives such as fire spread simulations using advanced technologies, satellite fire detection, high resolution numerical weather prediction and storm outage prediction. The high-resolution weather model is comprised of an 8-member ensemble run at 2 km resolution out 129 hours and is updated 2x per day. The high-resolution weather data is a foundational dataset that is fed into dead and live fuel moisture models, our Fire Potential Index and storm outage prediction models. These models are used to access the risk of outages year-round, and the concurrent risk of outages, ignition and fire potential to inform wildfire mitigation efforts, specifically PSPS and EPSS operations. This program relates to safety, reliability, or maintenance because it supports PG&E's emergency preparedness and response and serves as a risk

control to reduce the consequence of various risk events and as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT WFN – PSPS Non-Event Expense – This PSPS Program category includes activities that support the PSPS Program but are not associated with a specific PSPS event, such as PSPS PMO team cost, exclusive use (EU) helicopter contracts and preflight, and Field Operations Labor. This program relates to safety, reliability, or maintenance because it supports PG&E's emergency preparedness and response and serves as a risk control to reduce the consequence of various risk events and as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT WFP – PSPS Event Expense – This PSPS Events category includes activities directly associated with: (1) proactively de-energizing our electric transmission or distribution lines following a determination of weather-related imminent threats (i.e., high winds combined with dry conditions) to power line assets and increased risk of catastrophic wildfire, and (2) re-energizing those lines following an "all-clear" determination. This includes a sequence of activities beginning with activation of the EOC and ending with line re-energization. This program relates to safety, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT WFS – SIPT – As a result of SB 901, PG&E established in house fire protection services, referred to as Safety and Infrastructure Protection Teams (SIPT) to support PG&E crews performing work in high fire risk areas, to prevent ignitions and provide for the safety of PG&E crews and the public. Each SIPT crew consists of two employees, who are trained and certified in wildland firefighting, medical care, and utility safety. SIPT crews conduct pretreatment of PG&E assets that are threatened during wildfires. Additionally, SIPT crews perform high priority fire mitigation work and gather critical data to help prepare for and manage wildfire risk. SIPT has crews strategically located throughout the PG&E service territory in high fire threat areas. SIPT teams provide direct defense of utility infrastructure, conducting safety, prevention, mitigation, and maintenance activities on company properties or rights of way in connection with wildfires. This program relates to safety, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT WFW – Weather Station Maintenance – This program supports the installation, operations, and maintenance of PG&E's weather station network. There are over 1,500 PG&E weather stations installed that collect valuable information on fire weather parameters such as wind speed, wind gusts, temperature, and humidity every 10 minutes. These data are used to confirm conditions for PSPS execution, confirm when it is safe to start the restoration process after a PSPS event and validate forecast data. Historical data collected are being used to calculate historical percentiles and build weather station specific machine learning forecast models. This program relates to safety, reliability, or maintenance because it supports PSPS execution and serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

G. MAT Code Descriptions - Capital

MAT 05# – Tools and Equipment, other – Includes other costs for miscellaneous tools and equipment. See MWC 05 for how this program relates to safety, and/or reliability, and/or maintenance.

MAT 06# – Line Voltage Regulator Revolving Stock – This program includes purchase of Line Voltage Regulator Revolving Stock. This program relates to safety, reliability, or maintenance because it corrects voltage issues on distribution circuits to support safe and reliable operation of customer equipment.

MAT 06A – Feeder Projects Associated with Substation Capacity – This program includes installation and replacement of UG cable and OH conductor associated with a new substation transformer and feeder. This program relates to safety, reliability, or maintenance because it prevents overloads on substation equipment, mitigating the risk of equipment failure due to overloads.

MAT 06B – Transformer Replace Overloaded – This program includes replacement of transformers identified through overload reports using SmartMeter data, recorded high oil temperature indicators, or multiple thermal protective device operations during peak load periods. This does not include replacement of transformers identified via the new business, WRO or any other process. This program relates to safety, reliability, or maintenance and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets by replacing transformers identified as overloaded, thereby mitigating the risk of transformer failure due to overloads.

MAT 06D – Circuits Reinforce – Distribution Planning (DP) Managed – This program includes installation of new OH and UG facilities or reconductoring of existing facilities with larger wire to meet capacity needs or voltage support. These upgrades are performed to address one of the following possible scenarios: (1) Line Capacity Overload; (2) Under or Over-Voltage Conditions; (3) Operational or Emergency Capacity; and (4) Future UG Facilities in Joint Trench Projects. This MAT covers circuit reinforcement projects managed by DP. This program relates to safety, reliability, or maintenance by replacing distribution equipment that is either presently overloaded or forecast to be overloaded, mitigating the risk of equipment failure due to overloads.

MAT 06E – Circuits Reinforce – Project Services (PS) Managed – This program includes installation of new OH and UG facilities or reconductoring of existing facilities with larger wire to meet capacity needs or voltage support. These upgrades are performed to address one of the following possible scenarios: (1) Line Capacity Overload; (2) Under or Over-Voltage Conditions; (3) Operational or Emergency Capacity; and (4) Future UG Facilities in Joint Trench Projects. This MAT covers circuit reinforcement projects managed by PS. This program relates to safety, reliability, or maintenance by correcting overloads on distribution equipment caused by load growth, mitigating the risk of equipment failure due to overloads.

MAT 06G – Voltage Correct Secondary – This program includes adding or upgrading: (1) existing transformers; (2) secondary distribution conductors; and/or (3) secondary service wires to comply with the voltage requirements of Electric Rule 2. This program relates to safety, reliability, or maintenance by correcting secondary voltage issues to support safe and reliable operation of customer equipment.

MAT 06H – Electric Distribution Line New Business Performance – This program includes projects identified to address capacity deficiencies related to specific New Business customer's demand increase. This program relates to safety, reliability, or maintenance because it corrects overloads on distribution equipment caused by addition of new customer loads, mitigating the risk of equipment failure due to overloads.

MAT 06I – Electric Distribution Line Operational Capacity Projects – This program includes OH or UG new facilities or reconductoring of existing

facilities with large wire to improve reliability and increase emergency and operational capability of the system. This program relates to safety, reliability, or maintenance because it improves the ability to reconfigure the distribution system, reducing the number of customers impacted by outages and reducing outage restoration times.

MAT 06K – Power Factor Management – This program includes installing SCADA controls on strategically located electric distribution capacitor banks to allow control setting changes remotely for better power factor management, as well as increased voltage and reactive power support of the system. This program relates to safety, reliability, or maintenance by enabling SCADA control over power factor correction equipment and for solving voltage issues to support safe and reliable operation of customer equipment.

MAT 06P – Enable Distributed Generation Electric Distribution Line – This program includes installing SCADA controls on strategically located electric distribution regulator banks to allow control setting changes remotely for better control of two-way power flow. This program relates to safety, reliability, or maintenance by enabling RT control over voltage correction equipment, and RT solving of voltage issues to support safe and reliable operation of customer equipment.

MAT 07A – Tree Connect VM Assessments – This program assesses tree connections in the system. Tree conditions are defined as a dead, dying, or living tree used as a utility power pole. Remediation of tree connections includes installation of a new clearance pole and transfer of PG&E facilities from the tree to the new clearance pole. Remediation is performed in MAT 07C. This program relates to safety, reliability, or maintenance because it actively works to identify trees being used as utility power poles that could fail.

MAT 07C – Special Criteria Pole Replacement – Replace all tree connections in the system. Tree connections are defined as a dead, dying, or living tree that is being used as a utility power pole. This program identifies trees being used as utility power poles and enhances overall system safety by replacing the trees with poles, prior to failure. This program relates to safety, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT 07D – Pole Replacement – This program replaces poles identified as deteriorated/damaged and requiring replacement. This program enhances overall system safety by replacing poles identified to be deteriorated, damaged or nearing the end of their service life, prior to premature failure. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and as a mitigation to reduce the frequency or consequence of risk of wildfire.

This program supports Pole/Anchor replacement due to an overloaded condition caused by an owner's tenant. This can be driven by a PG&E tenant or another joint owner's tenant. This work is 100 percent reimbursed and managed by the local telecommunications cable attachment project manager. Project Manager

MAT 07G - Pole Joint Utility Telecommunications Reimbursement -

must obtain tenant approval prior to creation of an 07G order. The program satisfies the safety requirements by determining poles meet the strength and loading requirements of GO 95. This program relates to safety, reliability, or maintenance because it enhances overall system safety by replacing poles identified as overloaded, prior to premature failure.

MAT 07L – Steel Lattice Structures – This program includes the replacement or repair of steel lattice structures that carry electric distribution conductor across the Delta to meet various local and state agencies' (San Joaquin, Contra Costa, Alameda, Solano, and Yolo Counties) Navigable Waterway height clearance requirements. This program relates to safety, reliability, or maintenance because it enhances overall system safety by replacing structures identified to be nearing the end of their service life, prior to premature failure.

MAT 07O – Overloaded Pole Replacements – This program involves replacing poles identified as overloaded (additional load applied to the pole beyond what it is designed to hold). The program satisfies safety requirements by ensuring poles meet the strength and loading requirements of GO 95. This program relates to safety, reliability, or maintenance because it enhances overall system safety by replacing poles identified as overloaded, prior to premature failure and serves as a risk control to reduce the frequency or consequence of

risk of failure of electric distribution overhead assets and as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT 07# Electric Distribution Install/Replace OH Poles, other – Includes other costs related to the installation or replacement of OH poles prior to premature failure. See MWC 07 for how this program relates to safety, and/or reliability, and/or maintenance.

MAT 08J– Replace Deteriorated OH Conductor – This program includes targeted replacement of primary OH conductor in non-HFTDs deemed deteriorated through processes: (1) post wire-down investigation, (2) outage review/safety team recommendation, or (3) to proactively address elevated rates of wires down to improve safety, reliability, and integrity. MAT 08J also includes PG&E's Wires-Down Program, which addresses conductors that fail and result in a contact with the ground, or other object. This program relates to safety, reliability, or maintenance because it mitigates the risk of failure resulting in a potential wire-down event, by replacing deteriorated primary OH conductors and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 08S – Replace Obsolete OH Switches – This program involves replacing "grasshopper" OH switches, installed between 1950 and 1970, minimizing potential safety issues and improve reliability during routine and emergency switching operations. This program relates to safety, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of failure of electric distribution overhead assets by replacing obsolete switches that have limited load-break capabilities.

MAT 08W–System Hardening Wildfire Resiliency Projects – This program includes performing targeted HFTDs/HFRAs site specific primary conductor replacement, conversion of OH to UG, replacement of non-exempt equipment, replacement of OH electric distribution line transformers, replacement of existing wood poles with more resilient poles, upgrades to electrical protective devices and systems through equipment replacements and device programming. This work can be initiated based on: (1) wildfire risk modeling, (2) rebuild of fire impacted areas, (3) PSPS mitigation, or (4) PSS identified areas; and is completed in compliance with PG&E's Fire Rebuild Design Guidance for System Hardening. Undergrounding specific work is

recorded in MAT 3UG. This program relates directly to safety, reliability, and maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT 08# – Electric Distribution OH Asset Replacement, other – Includes other costs related to OH asset replacement work. See MWC 08 for how this program relates to safety, and/or reliability, and/or maintenance.

MAT 09A – Electric Distribution Line SCADA Install/Replace – This includes the DA Initiative, installing new RTUs to improve visibility, reliability, and operations, and continuing to upgrade and replace obsolete, deficient, and failed automation and protection equipment on distribution lines. Starting in 2021, this work was moved to MAT 49A. This program relates to safety, reliability, or maintenance because it supports the installation of electric distribution line equipment to remotely isolate electric lines and quickly de-energize facilities to address urgent safety issues such as wire down events.

MAT 09B – Electric Distribution Substation SCADA/RTU Replace – This program replaces obsolete SCADA/RTUs and HMIs in electric distribution substations to provide visibility and remote controllability to Operations and may also be replaced to ensure compatibility with new automation systems. This program work targets proactive replacements of SCADA systems in distribution substations that possess obsolete SCADA and protective relay assets, which, if failed, would jeopardize PG&E's ability to operate the electric facility remotely and properly gather data for system operators. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT 09D – Electric Distribution Substation SCADA/RTU Install – This program installs additional SCADA/RTU and HMIs in electric distribution substations to provide visibility and remote controllability to Operations. SCADA technology allows remote Distribution Operations to operate relays and quickly deenergize downed lines and equipment to support wildfire risk management. In addition, operational improvements are gained through remotely switching substation equipment, obtaining Real Time information about the condition of the

system, and providing historical data to examine line loading trends, forecast future loading, and perform outage investigations. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 09E – Electric Distribution Substation Protective Relay

Install/Replace – This program installs and replace protective relays in electric distribution substations to maintain optimal system protection and reliability. This program relates to safety, reliability, or maintenance because it covers the proactive replacement of aging substation protective relays. These relays trip substation circuit breakers when faults are detected, such as in cases of wires down resulting in over-current events, protecting power equipment from catastrophic failure, and increasing public safety. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 09F – Electric Distribution Substation SCADA Emergency

Replace – This program includes miscellaneous and emergency replacement projects initiated and funded by System Automation & Protection program. This program involves replacing inoperable automation and protection equipment (RTUs, peripheral boards, and protective relays) on an emergency basis. The forecast covers in-service failures as well as emergency replacements of equipment whose risk of failure is imminent. This program addresses in-service failures of substation SCADA equipment and protective relays, as well as emergency replacements of equipment whose risk of failure is imminent, which, if failed, would jeopardize PG&E's ability to remotely operate the electric facility safely. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 2AA – OH General Replacement – This program replaces deteriorated OH facilities that are not an imminent hazard and have not caused an outage. Facilities include crossarms, leaking transformers, and conductor. This program addresses non-conformance identified by preventative maintenance programs and internal operational processes. This program

relates to safety, reliability, or maintenance because it and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and risk of wildfire.

MAT 2AB – Bird Safe Install/Replacement – This program involves capital modification work and retrofits to distribution poles and/or adjacent poles to address bird-safety incidents, per USFWS requirements and Utility Operating Standard TD-2321S. This program relates to safety and reliability by mitigating outages due to bird incidents and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and risk of wildfire.

MAT 2AC – Bird Safe Install/Replacement Annual – This program involves capital modification work made to distribution poles as part of the annual pole retrofit program to address bird-safety issues, per USFWS requirements and Utility Operating Standard TD-2321S. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of wildfire.

MAT 2AE – OH COE Replacement – This program replaces OH equipment classified as COE; certain defined equipment including Protective Devices (Reclosers, Cutouts, Sectionalizers), Voltage Devices (Regulators, Boosters), Switches (Switches, Disconnects), Capacitors, and Conductors. This program addresses non-conforming critical operating equipment identified by preventative maintenance programs such as equipment testing, as well as internal operational processes. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 2AF – OH Idle Facility Remove – This program involves removal of OH Idle Facilities that have no likely foreseeable future use. This program removes equipment no longer in use and therefore removes the risk of malfunction or fault, that can cause an ignition. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and risk of wildfire.

MAT 2AG – San Francisco Series Streetlights – This program involves replacement of the RO streetlights, also referred to as constant-current

streetlight systems, owned and operated by PG&E in San Francisco. This project will replace the existing RO loops with the type of streetlight circuits used elsewhere is PG&E's system. This program relates to safety, reliability, or maintenance because it provides illumination for safe pedestrian and vehicular traffic and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 2AH – LED Streetlights – This program involves replacement of PG&E-owned and maintained decorative streetlights (LS-1) with more efficient, longer-life LED fixtures and new photo controllers. This program relates to safety, reliability, or maintenance because it provides longer-life streetlights and better illumination for safe pedestrian and vehicular traffic and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 2AI – San Francisco Historical Streetlights – This program involves replacement or refurbishment of cast-iron decorative streetlights in the Golden Triangle/Union Square area of San Francisco that have been found to have corroded steel support poles. This program relates to safety, reliability, or maintenance because it provides illumination for safe pedestrian and vehicular traffic and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 2AJ – Non-Exempt Fuse Replacement – This program involves replacing non-exempt fuses with exempt fuses to reduce fire risk from electric distribution operations. Non-exempt fuses can expel hot or molten material upon normal operation, leading to an increased risk of wildfire. Units measured: Number of replacements. This program relates to safety, reliability, or maintenance because it involves replacing equipment to mitigate wildfire risk. Starting in 2022, costs for non-exempt fuses were moved from MAT 2AP to MAT 2AJ.

MAT 2AP – OH Capital Projects – Major OH projects are defined as jobs costing more than \$10,000 per location. This program relates to safety and maintenance because it includes replacement of non-exempt fuses with exempt fuses for wildfire mitigation in HFTD areas. Since 2022, costs for non-exempt fuses were moved to MAT 2AJ.

MAT 2AQ – Ceramic Post Insulators – This program includes replacement of ceramic post insulators that were manufactured in or prior to 1972 and are currently installed on PG&E poles. This program relates to safety, reliability, and maintenance because it replaces ceramic post insulators prior to failure and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 2AR – Surge Arrester Replacement – This program involves replacement of current (non-exempt) surge arresters with exempt surge arresters to reduce fire risk from electric distribution operations. Non-exempt surge arresters are OH electric distribution equipment that have the potential to expel hot or molten material upon normal operation, leading to an increased risk of wildfire. This program includes replacing equipment to mitigate wildfire risk and correcting common grounding issues that pose a safety risk. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and of risk of wildfire.

MAT 2AS – FAS OH Capital – This program involves work that is identified during a field job and completed by a single PG&E Troubleman. The work could involve either replacing or installing OH facilities: Electric distribution conductors, components, structures, and associated equipment constructed above ground level. This program addresses non-conforming conductors, components, structures, and associated equipment identified by PG&E Troublemen. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 2BA – UG General Replacement – This program replaces deteriorated UG facilities that are not an imminent hazard and have not caused an outage. Facilities include deteriorated transformers, conduits, enclosures, pads, and idle equipment. This program addresses non-conforming facilities identified by preventative maintenance programs such as inspections and patrols, as well as internal operational processes. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT 2BB – Fault Indicator Replacements – This program replaces deteriorated fault indicators that are not an imminent hazard and have not caused an outage. In the event of an outage, this program helps sectionalize the outage area. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT 2BD – UG COE Replacement – This program replaces UG equipment determined COE by the division operators, Maintenance and Construction, and restoration, and validated by Distribution Engineers. This program relates to safety, reliability, or maintenance because it identifies certain assets needing replacements and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT 2BF – UG Idle Facility Remove – This program involves removal of UG Idle Facilities that do not to have a likely use in the foreseeable future. This program relates to safety, reliability, or maintenance because it removes equipment no longer in use and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT 2BP – UG Capital Projects – This program involves major UG projects, defined as jobs costing more than \$100,000 per location. This program addresses non-conforming equipment identified by preventative maintenance programs such as inspections and patrols, as well as internal operational processes. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT 2B# – EDPM, UG, other – Includes other costs related to replacing aging or deteriorated UG facilities. See MWC 2B for how this program relates to safety, and/or reliability, and/or maintenance.

MAT 2CA – NP Relay Replacement – This program involves replacement of an NP relay as part of planned replacement program. This program relates to safety, reliability, or maintenance because it addresses the replacement of any inoperable NP relays to maintain a safe and reliable distribution network system serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution network assets.

MAT 2CB – Fiber/SCADA Communication Replace – This program involves installation of new network monitoring systems for the distribution networks, including sensor installation, communications, fiber optic replacement and programming activities. This includes any upgrade/replacement work to the existing network SCADA systems for reliable operations until new SCADA systems are installed (not part of the new monitoring system as part of MAT 2CE). This program relates to safety, reliability, or maintenance because it addresses the replacement of any inoperable existing SCADA system and related components, including fiber optics, to maintain a safe and reliable distribution network system.

MAT 2CC – Network Transformer and Protector Replace – This program involves planned replacement of electric distribution network transformers, including those with deteriorated oil condition or high-rise locations. This program relates to safety, reliability, or maintenance because it addresses the replacement of both network transformer and network protector (NP) including high rise location to maintain a safe and reliable distribution network system serves as a risk control and mitigation to reduce the frequency or consequence of risk of failure of electric distribution network assets.

MAT 2CD – Venting Manhole Covers Replacement – This program includes replacement of existing manhole covers on the electric distribution network and distribution radial systems with venting manhole covers. This program relates to safety, reliability, or maintenance because it addresses public safety in the event of an electrical failure in an UG vault and the possible ejection of the manhole cover and serves as mitigation to reduce the frequency or consequence of risk of failure of electric distribution network assets.

MAT 2CE – Network SCADA Communications Upgrade – This program includes installation of new network SCADA monitoring systems for the electric distribution networks, including sensor installation, communications, fiber optic replacement and programming activities. This program relates to safety, reliability, or maintenance because the new safety monitoring system provides information to help prevent in-service failure of the monitored equipment in the distribution network system and serves as a mitigation to reduce the frequency or consequence of risk of failure of electric distribution network assets.

MAT 2C# – EDPM, Network, other – Includes other costs related to replacing aging or deteriorated network facilities. See MWC 2C for how this program relates to safety, and/or reliability, and/or maintenance.

MAT 3UG – Install/Replace Wildfire Mitigation Equipment – Includes costs for the undergrounding of existing OH electric distribution lines. This program addresses priority work in HFTDs based on wildfire risk modeling and relates directly to safety, reliability, or maintenance because it and serves as a mitigation to reduce the consequence or frequency of risk of failure of electric distribution overhead assets and of risk of wildfire. Work may also be associated with (1) rebuild of fire impacted areas, (2) PSPS mitigation, or (3) Public Safety Specialist (PSS) identified areas; and is completed in compliance with PG&E's Fire Rebuild Design Guidance for System Hardening.

MAT 46A – Electric Distribution Substation General Install/Replace – This program includes projects to support general electric distribution substation capacity increases for banks, bus, feeders, or other substation components that do not fall into one of the other MWC 46 MATs. This program relates to safety, reliability, or maintenance because it creates additional substation capacity to prevent overloads on substation equipment, mitigating the risk of equipment failure due to overloads.

MAT 46F – Electric Distribution Substation Emergency and Operational Capacity – This program involves projects identified in this MAT increase electric distribution capacity by upgrading banks, bus, feeders, or other substation components to improve reliability by providing emergency capacity and/or operational flexibility at the bank and feeder level. This program relates to safety, reliability, or maintenance because it improves the ability to reconfigure the distribution system, reducing the number of customers impacted by outages and reducing outage restoration times.

MAT 46H – Electric Distribution Substation New Business-Related

Capacity – This program involves projects like other projects under MWC 46;
however, these projects have been identified to address capacity deficiencies for specific New Business customers' demand increase. This program relates to safety, reliability, or maintenance because it creates additional substation capacity to serve new customer loads, mitigating the risk of equipment failure due to overloads.

MAT 46N – Electric Distribution Substation Land Purchase New

Substation – This program includes projects to increase area electric distribution substation capacity by siting, permitting, and constructing new substations. This program relates to safety, reliability, or maintenance because it works towards siting a new substation that adds additional substation capacity to prevent overloads on substation equipment, mitigating the risk of equipment failure due to overloads.

MAT 48A – Replace Electric Distribution Substation Other Equipment – This program replaces other electric distribution substation equipment, such as ancillary equipment, ground grids, etc. Includes replacement projects with complex or wide-ranging scope of work that include various equipment types. This program involves the replacement of various substation equipment (e.g., ancillary equipment, ground grid upgrade, etc.) not specifically captured under other specified programs under MWC 48 to maintain reliability. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT 48B – Replace Electric Distribution Substation Regulators – This program replaces regulators that are electric distribution substation assets, mainly electric distribution class (less than 50 kV), single-phase or three-phase. This program relates to safety, reliability, or maintenance because it involves the proactive planned replacement of substation regulators aimed to prevent regulator failures and to maintain reliability.

MAT 48C – Replace Electric Distribution Substation Batteries – This program replaces battery systems at electric distribution substations. This program relates to safety, reliability, or maintenance because it targets the replacement of substation batteries to minimize reliability risk due to battery failures and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets and of risk of wildfire.

MAT 48D – Replace Electric Distribution Substation Breakers – This program replaces electric distribution substation circuit breakers. This program relates to safety, reliability, or maintenance because it involves the proactive planned replacement of circuit breakers aimed to prevent failures and maintain reliability and serves as a risk control to reduce the frequency or consequence of

risk of failure of electric distribution substation assets and of risk of wildfire. This program also supports EPSS and serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT 48E – Replace Electric Distribution Substation Switches – This program replaces electric distribution substation disconnect switches. This program relates to safety, reliability, or maintenance because it targets the replacement of switches to maintain reliability and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets and of risk of wildfire.

MAT 48F – Replace Electric Distribution Substation Switchgear – This program replaces electric distribution substation switchgear equipment. This program relates to safety, reliability, or maintenance because it targets the replacement of switchgear to improve reliability and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets and of risk of wildfire.

MAT 48H – Replace Electric Distribution Substation Civil Structures – This program identifies substation support structures at risk of failure and replaces deteriorated structures to prevent interruption of service and to mitigate safety hazard to personnel. In addition, the program replaces wood structures supporting electrical buses, switches and other auxiliary equipment that connects to major assets. This program relates to safety, reliability, or maintenance because its activities serve as either a risk control or mitigation to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT 48L – Electric Distribution Line Work Support Substation – This program includes work required on electric distribution lines associated with substation equipment asset health replacement work. This program reconfigures, relocates, and/or rebuilds distribution lines and associated equipment work in conjunction with distribution work (e.g., cutovers – 4 kV to 12 kV, switchgear, and transformer replacement, etc.). This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets and of risk of wildfire.

MAT 48N – Electric Distribution Substation Insulators – This program involves replacement of electric distribution insulators that have reached end-of-life to maintain system operations. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets and of risk of wildfire.

MAT 48X – Electric Distribution Substation Animal Abatement – This program implements mitigation measures at distribution substations to prevent animal contact that can lead to substation outages and equipment damage. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets.

MAT 49# – Line Reclosers Revolving Stock – This program purchases Line Reclosers Revolving Stock. This program relates to safety, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of wildfire by providing a centralized inventory of equipment to support various safety and reliability programs such as PG&E's PSPS Program, targeted electric reliability improvements, and distribution line automation.

MAT 49A – Distribution Line Automation – This program replaces Automation/SCADA equipment including reclosers, OH, pad-mounted, or subsurface switches, and may include deficient communication equipment. This program supports the installation of electric distribution line equipment to remotely isolate electric lines and quickly de-energize facilities to address urgent safety issues such as wire down events. This program relates to safety, wildfire mitigation, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of failure of electric distribution overhead assets and of risk of wildfire.

MAT 49B – Recloser Asset Replacement – This program involves strategic upgrade of reclosers (units in-service, not deteriorated or damaged), may include recloser replacement, minor communication, or other minor upgrades to expand or improve SCADA coverage and improve reliability. This program relates to safety, reliability, or maintenance because it provides replacement electronic recloser controls or recloser to improve the functionality

of distribution line protective devices and serves as a mitigation to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 49C – OH Fuses Install/Replace – This program involves installing new OH fuses to improve reliability. This program supports the installation of devices to quickly de-energize faulted lines and improve electric reliability to customers. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 49D – Recloser/Switch/Disconnect Install/Replace – This program installs new reclosers, OH switches or solid blade disconnects to improve reliability. This program relates to safety, reliability, or maintenance because it directly funds the installation of electrical equipment designed to isolate faulted lines and serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 49E – General Installations/Replace Circuits/Zone – This program involves line work that typically includes reliability work, such as protective devices, reframing lines, installing tree wire, Targeted Circuit Program, as well as system or city/community programs to improve reliability. This program funds the installation of various electrical equipment designed to isolate faulted lines, prevent electrical outages, and improve electric service reliability to customers. This program relates to safety, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT 49G – UG Recloser/Sectionalizers/Switch Install/Replace – This program installs or replaces UG interrupters to improve reliability. This program relates to safety, reliability, or maintenance because it directly funds the installation of various electrical UG equipment designed to isolate faulted lines, limit the scope of electrical outages, and improve electric service reliability to customers.

MAT 49H – PSPS Sectionalizer Device Install/Replace – This program installs or replaces distribution PSPS sectionalizing devices. This program funds the installation of automated electrical equipment designed to isolate faulted lines, limit line reclosing, and facilitate the remote opening and closing of switches necessary to efficiently implement PSPS. This program relates to

safety and reliability because it serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT 49I – OH Fault Indicators/Line Sensors Install/Replace – This program installs new OH fault indicators or distribution line monitoring systems and/or line sensors to improve reliability. This program provides funding to support the installation of devices which assist with quickly identifying faulted lines. leading to improved electric reliability to customers. This program relates to safety, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT 49M – Resilience Zones – This program involves building resilience zones around Pre-Installed Interconnection Hubs (PIH)—permanent, "plug and play" infrastructure enabling temporary generation to connect to the electric distribution grid at pre-determined locations. Generally, PIHs will consist of a transformer and associated interconnection equipment, ground grid, and grid isolation and protection devices. This program limits the number of customers impacted by PSPS outage events and reduces the unplanned outage frequency and duration. This program relates to safety, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT 49R – Grid Modernization Technology – This includes projects and programs that install new and advancing technologies on the distribution system. These technologies are designed to enhance standard protection and controls and identify problems that traditional systems did not detect. This program relates to safety, reliability, or maintenance because it serves as a mitigation to reduce the frequency or consequence of risk of wildfire. Initial projects will install Rapid Earth Fault Current Limiter on circuits within the Tier 2 and 3 HFTD areas to reduce the risk of ignition from a wire down conditions.

MAT 49S – Electric Reliability Install FLISR Systems – This program involves the Fault Location, Isolation, and Service Restoration (FLISR) automation system reduces the effect of outages to customers by quickly opening and closing automated switches. This program relates to safety, reliability, or maintenance because it directly funds the installation of various electrical equipment designed to isolate faulted lines, limit the scope of electrical outages, and improves electric service reliability.

MAT 49T – Single Phase Line Recloser – This program installs single unit (per phase) recloser. This program funds the installation of electrical OH equipment designed to isolate faulted lines, limit the scope of electrical outages, improve electric service reliability, and gang tripping or remote functionality to increase public safety. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets, and as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT 49X – Emerging Electric Distribution Reliability Improvements – This program involves emergent reliability projects focused on addressing localized reliability issues not covered by broad, system-wide reliability programs, including projects to support EPSS. This program funds the installation of various electrical equipment designed to isolate faulted lines, limit the scope of electrical outages, and improve electric service reliability. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets, and as a mitigation to reduce the frequency or consequence of risk of wildfire.

MAT 54A – Electric Distribution Substation – Replace Transformer – This program includes the targeted replacement of transformers as well as the procurement of emergency support equipment to improve substation reliability and prevent in-service transformer failures. This program relates to safety, reliability, and maintenance because it serves as a risk control and mitigation to reduce the frequency or consequence of risk of failure of electric distribution substation assets, and as a risk control to reduce the frequency or consequence of risk of wildfire.

MAT 54L – Electric Distribution Substation – Transformer Life Extension – This program involves Transformer Life Extension (TLE) work that reconditions older substation transformers to extend their life expectancy by replacing a specific combination of components. TLE work provides a cost-effective means to extend the useful service life of the equipment and maintain system reliability. This program relates to safety, reliability, and maintenance because it extends the life of the transformer and serves as a risk

control to reduce the frequency or consequence of risk of failure of electric distribution overhead assets.

MAT 56A – Reliability Related Cable Replacement – This program involves capital work associated with UG primary cable systems, including replacement of UG cables and associated components. The program replaces UG cables in areas that have experienced two or more cable failures within five years. Many of these cables are unjacketed High Molecular Weight Polyethene (HMWPE) or Cross-Linked Polyethylene (XLPE) cables that have been evaluated through cable testing or cable rejuvenation (MAT 56B program) and showed signs of insulation and/or concentric neutral deterioration, some of which had complete neutral breaks. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT 56B – Cable Rejuvenation and Testing – This program involves rejuvenation (injection) of primary UG cables to restore insulation integrity with goal of extending operating life. Testing involves applying voltage signals to cable to evaluate its operating condition, typically using partial discharge. Both rejuvenation and testing involve performing neutral assessment of the cables. Sections not injectable or do not pass testing are targeted for cable replacement under MAT 56A. This program evaluates the condition (concentric neutral and insulation deterioration) of some of HMWPE and XLPE UG cables, in areas that have experienced two or more failures within five years, which are then prioritized for replacement under MAT 56A. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT 56C – COE Cable Replacement – This program involves replacement of failed primary UG loop cable sections noted on the COE list. This program relates to reliability or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT 56D – Transfer Ground Rocker Arm Main/Transfer Ground Rocker Arm Line (TGRAM/TGRAL) Switch Replacement – This program involves replacement of UG TGRAM/TGRAL switches. This program relates to safety,

reliability, or maintenance because it replaces switches that have been in service since the 1950s and 1960s, and for which the insulating oil to make or break load cannot be properly tested.

MAT 56N – Network Cable Replacement – This program involves systematic replacement of network cable assets in San Francisco and Oakland. The work involves replacing primary and secondary cables and installing new equipment. This program relates to safety, reliability, or maintenance because the network cable system is in urban areas where the public potentially could be near energized equipment. This necessitates a safety driver to minimize in-service failure; a reliability driver to minimize service outages impacting customers; and a maintenance driver to execute a consistent asset-management strategy for the safety and operating performance of the system to balance risk, performance, and cost. This program also relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT 56S –Load Break Oil Rotary (LBOR) Switch Replacements – This program involves the proactive replacement of UG oil-filled switches whose condition warrants replacement to avoid potential failures. This program focuses on the replacement of subsurface switches that have been in service for more than 45 years, and for which the quantity of the insulating oil poses risk. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution underground assets.

MAT 56T – Temperature Alarm Devices – This program installs

Distribution Temperature Monitor, otherwise known as Temperature Alarm

Devices, for Subsurface Distribution Assets (Subsurface Transformers, LBOR

Switches and 600-amp Switches). This program installs temperature indicators
to safely and proactively replace UG assets that are continuously running above
allowable temperature or exhibiting thermal runaway conditions (very quick
temperature rises). This program relates to safety, reliability, or maintenance
because it serves as a risk control to reduce the frequency or consequence of
risk of failure of electric distribution underground assets.

MAT 56# – Electric Distribution UG Asset Replacements, Other – Includes other costs related to replacement of primary electric distribution cables, primary and secondary Network Cables, and other UG assets. See MWC 56 for how this program relates to safety, and/or reliability, and/or maintenance.

MAT 58A – Electric Distribution Substation - Fire Protection and Suppression – This program replaces or installs fire protection in electric distribution substation assets. This program involves the installation and/or upgrades of fire suppression systems which minimizes the probability of fire occurrences that could lead to interruption of service and/or property loss. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets and of risk of wildfire.

MAT 58C – Replace Distribution Substation Miscellaneous

Equipment – This program involves distribution substation miscellaneous equipment replacements. This program relates to safety, reliability, or maintenance because it mitigates equipment failures and ensures safety within the substation.

MAT 58S – Electric Distribution Substation Security Upgrades – This program replaces, upgrades or installs security systems (physical or technology) to provide safety to employees and prevent vandalism. This program relates to safety, reliability, or maintenance because it serves as a risk control to reduce the frequency or consequence of risk of failure of electric distribution substation assets and of risk of wildfire.

MAT 63C – ADMS Development – This program funds the ADMS and tracks capital associated to the multi-year grid modernization effort to consolidate distribution operational technology platforms into a single platform. This program relates to safety, wildfire mitigation, reliability, or maintenance because it enables outage management applications that include instantaneous fault location, automated switching recommendations and promotes operator awareness of RT circuit conditions. This project directly supports DCC operations.

MAT 63D – Distribution Operational Technology – This program involves DCC systems, equipment/hardware installations and replacement. It is used to

track capital improvements and enhancements at the DCC. This program relates to safety, wildfire mitigation, reliability, and maintenance by supporting the development and daily operation of RT applications/tools that are used to safely operate and maintain distribution reliability.

MAT 63# – EO Control Center Facility and Operational Technology, other – Includes other costs related to capital improvements to operational technology used in DCCs. See MWC 63 for how this program relates to safety, and/or reliability, and/or maintenance.

H. Comparison by MAT Code for Non-Safety, Reliability, and Maintenance Work Tables

TABLE 3-5
2023 RSAR
2023 GRC CYCLE ELECTRIC DISTRIBUTION EXPENSE COMPARISON BY MWC/MAT CODE FOR NON SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

	Α	В	C1	C2	C3	C4	C5	C6	C7	D	Е	F	G	Н	I	J
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
1	Expense	Electric Distribution	EV	Manage Service Inquiries	EVA	Service Inquiry	Non-SRM	Non-SRM	Ex 4, Ch 18	No	On-going	Annual	5,004.2	4,047.5	(956.6)	-19.1%
2	Expense	Electric Distribution	EV	Manage Service Inquiries	EVB	OK to Serve	Non-SRM	Non-SRM	Ex 4, Ch 18	No	On-going	Annual	8,913.2	8,286.2	(627.0)	-7.0%
3	Expense	Electric Distribution	EV	Manage Service Inquiries	#	Not assigned	Non-SRM	Non-SRM	Ex 4, Ch 18	No	On-going	Annual	-	112.6	112.6	100.0%
4	Expense	Electric Distribution	EW	E TD WRO	N/A	Not assigned	Non-SRM	Non-SRM	Ex 4, Ch 18	No	On-going	Annual	11,537.9	8,414.4	(3,123.6)	-27.1%
5	Expense	Electric Distribution	os	Operational Support	N/A	Not assigned	Non-SRM	Non-SRM	Ex 4, Ch 22	No	On-going	Annual	62,153.6	2,903.9	(59,249.7)	-95.3%

TABLE 3-6 2023 RSAR 2023 GRC CYCLE ELECTRIC DISTRIBUTION CAPITAL COMPARISON BY MWC/MAT CODE FOR NON SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	C3	C4	C5	C6	C7	D	Е	F	G	Н	1	J
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	MAT	MAT Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
1	Capital	Electric Distribution	10	E Dist WRO General	N/A	Not assigned	Non-SRM Total	Non-SRM Total	Ex 4, Ch 18	No	On-going	Annual	138,483.9	242,275.6	103,791.7	74.9%
				E Dist Customer												
2	Capital	Electric Distribution	16	Connects	N/A	Not assigned	Non-SRM Total	Non-SRM Total	Ex 4, Ch 18	No	On-going	Annual	653,710.2	1,069,650.2	415,940.0	63.6%
3	Capital	Electric Distribution	30	E Dist WRO Rule 20A	N/A	Not assigned	Non-SRM Total	Non-SRM Total	Ex 4, Ch 19	No	On-going	Annual	30,456.7	23,890.4	(6,566.3)	-21.6%

I. Electric Distribution Supplemental Repo	orting
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- In compliance with D.19-04-020, which superseded and replaced the Spending Accountability Report required by D.17-05-013,³ and with the completion of the 2020 GRC cycle, PG&E is no longer producing the supplemental reporting tables required by D.17-05-013 listed below in the RSAR.
 - 1) Electric Distribution Unit Report
 - Wood poles replaced through the Pole Replacement and other company programs;
 - Stand-alone circuit breakers replaced or installed across all company programs;
 - Miles of paper-insulated lead sheath cable (PILC) replaced across all company programs;
 - Miles of HMWPE cable, respectively, replaced across all company programs;
 - Miles of HMWPE cable, respectively, rejuvenated across all company programs;
 - Miles of OH conductor replaced across all company programs;
 - Grasshopper switches replaced across all company programs;
 - FLISR installations in the Reliability program;
 - OH fuse installations across all company programs.
 - 2) Electric Distribution Surge Arrester Progress Report
 - Capital MAT 2AR Total Program Spend;
 - Units Completed;
 - Locations in PG&E's survey identified as not requiring work; and
 - 3) Electric Distribution Wood Pole Count by Age.

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D.19-04-020, Phase Two Decision Adopting Risk Spending Accountability Report Requirements and Safety Performance Metrics for Investor-Owned Utilities and Adopting a Safety Model Approach for Small and Multi-Jurisdictional Utilities Ordering Paragraph 12.

PACIFIC GAS AND ELECTRIC COMPANY SECTION 4 ENERGY SUPPLY IMPUTED ADOPTED VS. RECORDED COMPARISON

PACIFIC GAS AND ELECTRIC COMPANY SECTION 4 ENERGY SUPPLY IMPUTED ADOPTED VS. RECORDED COMPARISON

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PACIFIC GAS AND ELECTRIC COMPANY SECTION 4 ENERGY SUPPLY IMPUTED ADOPTED VS. RECORDED COMPARISON

A. Introduction

This section includes the following information for the Energy Policy and Procurement, Nuclear Generation, and Power Generation portions of the Energy Supply functional area: a comparison of the total 2023 imputed adopted spend vs. the actual spend and for those programs that are related to safety, reliability, or maintenance (SRM), the Major Work Category (MWC) descriptions, imputed adopted vs. actuals comparison details and variance explanations. In addition, per Decision 22-10-002, the MWC descriptions include an explanation of how each program/project relates to safety, reliability, or maintenance.

B. Energy Policy and Procurement Comparison Summary Tables

TABLE 4-1 2023 RSAR 2023 GRC CYCLE ENERGY POLICY AND PROCUREMENT EXPENSE COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E3-D3)	Percent Variance for 2023 (%) ((E3-D3)/D3)
1	O&M Expense	Energy Policy and Procurement	Misc Expense	AB	816.3	281.1	(535.3)	-65.6%
2	O&M Expense	Energy Policy and Procurement	Acq & Manage Elect Supply	CT	30,346.9	31,594.1	1,247.2	4.1%
3	O&M Expense	Energy Policy and Procurement	Acq & Manage Gas Supply	CV	2,456.4	2,481.6	25.2	1.0%
4	O&M Expense	Energy Policy and Procurement	Manage Electric Grid Ops	CY	10,533.7	13,693.3	3,159.6	30.0%
5	O&M Expense	Energy Policy and Procurement	Maintain IT Apps & Infra	JV	1,538.7	282.3	(1,256.4)	-81.7%
6	O&M Expense	Energy Policy and Procurement	TOTAL		45,692.0	48,332.4	2,640.4	5.8%

TABLE 4-2 2023 RSAR 2023 GRC CYCLE ENERGY POLICY AND PROCUREMENT CAPITAL COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	E	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	мwс	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E3-D3)	Percent Variance for 2023 (%) ((E3-D3)/D3)
1	Capital	Energy Policy and Procurement	Build IT Apps & Infra	2F	11,464.9	6,762.3	(4,702.7)	-41.0%
2	Capital	Energy Policy and Procurement	Total		11,464.9	6,762.3	(4,702.7)	-41.0%

Energy Policy and Procurement Comparison Tables by MWC for Non-Safety, Reliability, and Maintenance ပ

C. Energy Policy and Procurement Compa
 Work Tables

2023 GRC CYCLE ENERGY POLICY AND PROCUREMENT EXPENSE COMPARISON BY MWC FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) **2023 RSAR**

TABLE 4-3

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٦	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	-65.6%	4.1%	1.0%	30:0%	-81.7%
_	Difference for 2023 (\$) (H-G)	(535.3)	1,247.2	25.2	3,159.6	(1,256.4)
I	2023 Actual Costs	281.1	31,594.1	2,481.6	13,693.3	282.3
9	2023 Imputed Adopted Costs	816.3	30,346.9	2,456.4	10,533.7	1,538.7
ш	Program / Project Year	annual	annual	annual	annual	annual
ш	2023 GRC RAMP Roll. Program / Testimony up Project Life Reference (Yes/No) (years)	On-going	On-going	On-going	On-going	No On-going
Q	RAMP Roll- up (Yes/No)	No	οN	οN	οN	ON.
CS	2023 GRC Testimony Reference	Ex 5, Ch 6	Ex 5, Ch 6	Ex 5, Ch 6	Ex 5, Ch 6	Ex 5, Ch 7
2	RAMP Mitigation and/or Control Name	Non-SRM Total	Non-SRM Total	Non-SRM Total	Non-SRM Total	Non-SRM Total
E3	RAMP Risk Name	Non-SRM Total	Non-SRM Total	Non-SRM Total	Non-SRM Total	Non-SRM Total
C2	MWC Name	Misc Expense	Acq & Manage Elect CT Supply	Acq & Manage Gas CV Supply	Manage Electric Grid Ops	Maintain IT Apps & Infra
5	MWC	AB	LO	ΛO	λO	Main JV Infra
В	Functional Area	O&M Expense	O&M Expense Energy Policy and Procurement	O&M Expense Energy Policy and Procurement	O&M Expense Energy Policy and Procurement	O&M Expense Energy Policy and Procurement
٨	Type Line No (O&M Expense or Capital)	O&M Expense	O&M Expense	O&M Expense	O&M Expense	O&M Expense
	Line No	-	2	8	4	5

TABLE 4-4 2023 RSAR 2023 GRC CYCLE ENERGY POLICY AND PROCUREMENT CAPITAL COMPARISON BY MWC FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

Spending Percent Variance for 2023 (%) ((H-G)/G*100)	-41 0%
Difference for 2023 (\$) (H-G)	annual 11 464 9 6 762 3 (4 702 7)
ts	6 762 3
2023 Imputed Adopted Costs	11 464 9
Program / Project Year	
Program / Project Life (years)	Op-coing
RAMP Roll- up (Yes/No)	S
2023 GRC Testimony Reference	Ex 5. Ch 7
RAMP Mitigation and/or Control Name	Non-SRM Total
RAMP Risk Name	-SRM Total
MWC Name	Build Applications
MWC	Ľ,
	Energy Policy and Procurement
Type (O&M Expense or Capital)	Capital
Line No	-
	Type (O&M Expense or Capital) Functional Area (O.S.M Expense or Capital) Type (OSM Expense or Capital) Testimony (Yes/No) (

D. Energy Policy and Procurement MWC Descriptions – Expense 1 **MWC AB – Administration** – Includes costs for the overall administration 2 costs for the VP of EPP. This MWC is not related to safety, reliability, and/or 3 4 maintenance. **MWC CT – Acquire and Manage Electric Supply** – Includes costs to 5 acquire and manage electric supply. This MWC is not related to safety, 6 7 reliability, and/or maintenance. 8 **MWC CV – Acquire and Manage Gas Supply** – Includes costs to acquire and manage gas supply. This MWC is not related to safety, reliability, and/or 9 maintenance. 10 **MWC CY – Manage Electric Grid Ops** – Includes costs to manage electric 11 12 grid operations. This MWC is not related to safety, reliability, and/or maintenance. 13 **MWC JV – Maintain Applications and Infrastructure** – Includes costs for 14 ongoing maintenance, operations and repair for PG&E's Information Technology 15 (IT) applications, systems and infrastructure. This MWC is not related to safety, 16 reliability, and/or maintenance. 17 E. Energy Policy and Procurement MWC Descriptions – Capital 18 **MWC 2F - Build Applications and Infrastructure** – Includes the costs to 19 design, develop and enhance applications, systems and infrastructure 20 technology solutions. This MWC is not related to safety, reliability, and/or 21

maintenance.

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1 F. Nuclear Generation Comparison Summary Tables

TABLE 4-5
2023 RSAR
2023 GRC CYCLE NUCLEAR GENERATION EXPENSE COMPARISON SUMMARY
(THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	O&M Expense	Nuclear Generation	Misc Expense	AB	0.0	340.0	340.0	100.0%
2	O&M Expense	Nuclear Generation	Manage Environmental Oper	AK	2,263.3	2,077.6	(185.7)	-8.2%
3	O&M Expense	Nuclear Generation	Manage DCPP Business	BP	13,681.3	12,752.2	(929.1)	-6.8%
4	O&M Expense	Nuclear Generation	DCPP Support Services	BQ	42,009.1	42,675.3	666.2	1.6%
5	O&M Expense	Nuclear Generation	Operate DCPP Plant	BR	76,609.2	78,631.3	2,022.1	2.6%
6	O&M Expense	Nuclear Generation	Maintain DCPP Plant Assets	BS	91,686.3	97,104.1	5,417.7	5.9%
7	O&M Expense	Nuclear Generation	Nuclear Generation Fees	BT	16,800.6	17,298.0	497.5	3.0%
8	O&M Expense	Nuclear Generation	Procure DCPP Materials & Svcs	BU	0.0	(118.5)	(118.5)	100.0%
9	O&M Expense	Nuclear Generation	Maintain DCPP Plant Configurtn	BV	34,728.7	38,316.9	3,588.1	10.3%
10	O&M Expense	Nuclear Generation	Provide Nuclear Support	EO	10.4	(54.3)	(64.7)	-624.1%
11	O&M Expense	Nuclear Generation	Manage Var Bal Acct Processes	IG	2,716.7	2,776.1	59.4	2.2%
12	O&M Expense	Nuclear Generation	Maintain IT Apps & Infra	JV	796.5	449.1	(347.4)	-43.6%
13	O&M Expense	Nuclear Generation	Operational Management	ОМ	7,454.3	6,156.4	(1,297.9)	-17.4%
14	O&M Expense	Nuclear Generation	Operational Support	os	23,816.2	24,078.6	262.4	1.1%
15	O&M Expense	Nuclear Generation	TOTAL		312,572.5	322,482.7	9,910.2	3.2%

TABLE 4-6
2023 RSAR
2023 GRC CYCLE NUCLEAR GENERATION CAPITAL COMPARISON SUMMARY
(THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	Capital	Nuclear Generation	Tools & Equipment	05	747.5	2,246.3	1,498.8	200.5%
2	Capital	Nuclear Generation	DCPP Capital	20	10,243.8	8,768.1	(1,475.7)	-14.4%
3	Capital	Nuclear Generation	Build IT Apps & Infra	2F	1,322.8	1,431.4	108.6	8.2%
4	Capital	Nuclear Generation	TOTAL		12,314.0	12,445.8	131.8	1.1%

1 G. Nuclear Generation Comparison Tables by MWC for Safety, Reliability, and Maintenance Work Tables

TABLE 4-7
2023 RSAR
2023 GRC CYCLE NUCLEAR GENERATION EXPENSE COMPARISON BY MWC FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

A	В	C1	C2	C3	C4	C5	D	F	F	G	Н		1	K1	K2	ı	M1	M2	M3	N	0
,,		- 01	02			- 55	+ 5		'			<u>'</u>	0				IVII	Forecast	IVIO	IN .	1
Line No Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	Scope (U, O, or T)	Schedule	Budget (U, O, or T)	Status	Completion Status Statement
O&M 1 Expense	Nuclear Generation	AB	Misc Expense	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 3	No	On-going	Annual	0.0	340.0	340.0	100.0%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	Nuclear Generation			SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 3	No	On-going	Annual	13,681.3	12,752.2	(929.1)	-6.8%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
O&M 3 Expense	Nuclear Generation	BQ	DCPP Loss Prevention	SRM Total	SRM Total	Ex 5, Ch 3	No	On-going	Annual	42,009.1	42,675.3	666.2	1.6%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
O&M 4 Expense	Nuclear Generation	BQ	DCPP Loss Prevention	Core Damaging Event	NCORE-C4 - Security from External and Internal Threats, and Emergency Response	Ex 5, Ch 3	Yes	On-going	Annual	37,808.2	38,407.8	599.6	1.6%	N/A	N/A	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
O&M 5 Expense	Nuclear Generation	BQ	DCPP Loss Prevention	Extended Shutdown	NSHUT-C4 - Security from External and Internal Threats, and Emergency Response	Ex 5, Ch 3	Yes	On-going	Annual	4,200.9	4,267.5	66.6	1.6%	N/A	N/A	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	Nuclear Generation	BR	Operate DCPP Plant	SRM Total	SRM Total NCORE-C2 - Operating the	Ex 5, Ch 3	No	On-going	Annual	76,609.2	78,631.3	2,022.1	2.6%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	Nuclear Generation	BR	Operate DCPP Plant	Core Damaging Event		Ex 5, Ch 3	Yes	On-going	Annual	51,127.5	46,887.8	(4,239.7)	-8.3%	N/A	N/A	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
O&M 8 Expense O&M	Nuclear Generation	BR	Operate DCPP Plant	Extended Shutdown	NSHUT-C2 - Operating the Facility Within Requirements	Ex 5, Ch 3	Yes	On-going	Annual	5,680.8	5,209.8	(471.1)	-8.3%	N/A	N/A	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	Nuclear Generation	BR	Operate DCPP Plant	SRM (Non-RAMP)	SRM (Non-RAMP)	Ex 5, Ch 3	Yes	On-going	Annual	19,800.9	26,533.8	6,732.9	34.0%	N/A	N/A	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
1 1	Nuclear Generation	BS		SRM Total	SRM Total	Ex 5, Ch 3	No	On-going	Annual	91,686.3	97,104.1	5,417.7	5.9%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
O&M 11 Expense	Nuclear Generation		Maintain DCPP Plant Assets	Core Damaging Event	NCORE-C1 - Maintaining the Systems	Ex 5, Ch 3	Yes	On-going	Annual	74,928.7	78,745.8	3,817.1	5.1%	N/A	N/A	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
O&M 12 Expense	Nuclear Generation		Maintain DCPP Plant Assets	Extended Shutdown	NSHUT-C1 - Maintaining the Systems	Ex 5, Ch 3	Yes	On-going	Annual	8,325.4	8,749.5	424.1	5.1%	N/A	N/A	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	Nuclear Generation	BS		SRM (Non-RAMP)	SRM (Non-RAMP)	Ex 5, Ch 3	Yes	On-going	Annual	8,432.2	9,608.8	1,176.5	14.0%	N/A	N/A	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
O&M 14 Expense	Nuclear Generation		Maintain DCPP Plant Configurtn	SRM Total	SRM Total	Ex 5, Ch 3	No	On-going	Annual	34,728.7	38,316.9	3,588.1	10.3%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
O&M	Nuclear Generation	BV	Maintain DCPP Plant	Core Damaging Event	NSHUT-C3 - Plant and System	Ex 5, Ch 3	Yes	On-going	Annual	23,881.6	31,615.7	7,734.1	32.4%	N/A		Below variance threshold.	On-Target		On-Target	, ,	N/A
O&M	Nuclear Generation		Maintain DCPP Plant	Extended Shutdown	Configuration Control	Ex 5, Ch 3	Yes	On-going	Annual	2,653.5	3,512.9	859.3	32.4%	N/A	N/A	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	
17 Expense O&M 18 Expense	Nuclear Generation Nuclear Generation		Manage Var Bal Acct	SRM (Non-RAMP) SRM Total	SRM (Non-RAMP) SRM Total (Non-RAMP)	Ex 5, Ch 3	Yes	On-going	Annual	8,193.6	3,188.4	(5,005.3)	-61.1%	N/A NO	N/A NO	Below variance threshold. Below variance threshold.	On-Target On-Target	On-Target On-Target	On-Target On-Target		N/A
18 Expense	Nucleal Generation	IG	110069969	Ortivi Total	OCTOR TOTAL (INDIFFRANCE)	LA U, OH U	No	On-going	Annual	2,716.7	2,776.1	59.4	2.2%	NO	INO	Delow variance uneshold.	OiFraiget	OirTaiget	OiFraiget	1 10000001119 as FIAITIEU	IVA

TABLE 4-8 2023 RSAR 2020 GRC CYCLE NUCLEAR GENERATION CAPITAL COMPARISON BY MWC FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

		Α	В	C1	C2	С3	C4	C5	D	E	F	G	Н	I	J	K1	K2	L	M1	M2	М3	N	0
Lir	No E	Type (O&M xpense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name		RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	Scope (U, O, or T)	Forecast Schedule (U, O, or T)	Budget (U, O, or T)	_ Status	Completion Status Statement
	1 a	apital	Nuclear Generation	20	DCPP Capital	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 3	No	On-going	annual	10,243.8	8,768.1	(1,475.7)	-14.4%	NO	NO	Below variance threshold.	Target	Target	Target	Proceeding as Planned	N/A

1 H. Nuclear Generation Comparison Tables by MWC for Non-Safety, Reliability, and Maintenance Work Tables

TABLE 4-9
2023 RSAR
2023 GRC CYCLE NUCLEAR GENERATION EXPENSE COMPARISON BY MWC FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

	Α	В	C1	C2	C3	C4	C5	D	E	F	G	Н	I	J
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
1		Nuclear Generation		Manage Environmental Operations	Non-RAMP	Non-RAMP	Ex 5, Ch 3	No	Ongoing	Annual	2,263.3	2,077.6	(185.7)	-8.2%
2	O&M Expense	Nuclear Generation	ВТ	Nuclear Generation Fees		Non-SRM Total	Ex 5, Ch 3	No	Ongoing	Annual	16,800.6	17,298.0	497.5	3.0%
3	O&M Expense	Nuclear Generation	ВТ	Nuclear Generation Fees	Core Damaging Event	NSHUT-C5 - Independent Oversight	Ex 5, Ch 3	Yes	Ongoing	Annual	12,658.0	12,811.1	153.1	1.2%
4		Nuclear Generation	ВТ	Nuclear Generation Fees		and Training, NSHUT-C6 - Regulatory Required Improvements, Ongoing Seismic Evaluations	Ex 5, Ch 3	Yes	Ongoing	Annual	1,406.4	1,423.5	17.0	1.2%
5		Nuclear Generation		Nuclear Generation Fees	Non-RAMP	Non-RAMP	Ex 5, Ch 3	Yes	Ongoing	Annual	2,736.2	3,063.5	327.4	12.0%
6		Nuclear Generation		Procure DCPP Materials & Svcs	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 5, Ch 3	No	Ongoing	Annual	0.0	(118.5)	(118.5)	100.0%
7	•	Nuclear Generation	_	Provide Nuclear Support	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 5, Ch 3	No	Ongoing	Annual	10.4	(54.3)	(64.7)	-622.1%
8		Nuclear Generation		Maintain Applications and Infrastructure	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 5, Ch 7	No	Ongoing	Annual	796.5	449.1	(347.4)	-43.6%
9	<u> </u>	Nuclear Generation	ОМ	Operational Management	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 5, Ch 3	No	Ongoing	Annual	7,454.3	6,156.4	(1,297.9)	-17.4%
10	O&M Expense	Nuclear Generation	os	Operational Support		Non-SRM Total	Ex 5, Ch 3	No	Ongoing	Annual	23,816.2	24,078.6	262.4	1.1%
11	O&M Expense	Nuclear Generation	os	Operational Support	Core Damaging Event		Ex 5, Ch 3	Yes	Ongoing	Annual	14,966.8	16,171.7	1,204.9	8.1%
12	O&M Expense	Nuclear Generation	os	Operational Support		NSHUT-C5 - Independent Oversight and Training, NSHUT-C6 - Regulatory Required Improvements, Ongoing Seismic Evaluations	Ex 5, Ch 3	Yes	Ongoing	Annual	1,663.0	1,796.9	133.9	8.1%
13	O&M Expense	Nuclear Generation	os	Operational Support	Non-SRM	Non-SRM (Non-RAMP)	Ex 5, Ch 3	Yes	Ongoing	Annual	7,186.4	6,110.0	(1,076.4)	-15.0%

TABLE 4-10 2023 RSAR 2020 GRC CYCLE NUCLEAR GENERATION CAPITAL COMPARISON BY MWC FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	C3	C4	C5	D	E	F	G	Н	l	J	
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	
1	Capital	Nuclear Generation	05	Tools and Equipment	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 5, Ch 3	No	Ongoing	Annual	747.0	2,246.0	1,499.0	200.7%	
2	,	Nuclear Generation		Build IT Apps and	,	,	Ex 5, Ch 7	No	Ongoing	Annual	1,323.0	1,431.0	108.0	8.2%	

I. Nuclear Generation MWC Descriptions – Expense

 MWC AB – Miscellaneous Expense – Includes miscellaneous support cost from both within and outside of Nuclear Generation. Also, used for General Rate Case imputed adopted for levelizing the cost of nuclear refueling outages when two outages are forecast to occur in a single year. Refueling outage recorded costs are recorded in other MWCs as appropriate. This MWC relates to safety, reliability, or maintenance because the costs are associated with levelizing the cost of nuclear refueling outages when two outages are forecast to occur in a single year, consistent with keeping the generation facilities reliable.

MWC AK – Manage Environmental Operations – Includes managing the environmental protection programs mandated by federal, state, and local regulations. This MWC is not related to safety, reliability, and/or maintenance.

MWC BP – Manage Diablo Canyon Power Plant (DCPP) Business – Includes: (1) all activities associated with representing Pacific Gas and Electric Company (PG&E) and providing technical input to committees, owners groups, industry, professional and trade associations that support electric utilities; (2) dues to the Institute of Nuclear Power Operators, Nuclear Energy Institute, Strategic Teaming and Resource Sharing, and Diablo Canyon Independent Safety Committee; (3) land management activities; and (4) planned emergent work funding for the entire Nuclear Generation organization. This MWC relates to safety, reliability, or maintenance because the costs are associated with the above programs, consistent with keeping the generation facility safe and reliable.

MWC BQ – DCPP Support Services – Includes support for the management and implementation of the Security, Industrial Safety and Health, Emergency Preparedness and Fire Protection programs. This MWC relates to safety, reliability, or maintenance because the costs are associated with Security, Industrial Safety and Health, Emergency Preparedness and Fire Protection programs, consistent with keeping the generation facility safe.

MWC BR – Operate DCPP Plant – Includes all activities to operate the plant, radiation control, monitoring of plant chemistry, managing radioactive waste and hazardous waste generation, nuclear fuel movement, and reactor physics testing. This MWC relates to safety, reliability, or maintenance because

the costs are associated with the above programs, consistent with keeping the generation facility safe and reliable.

MWC BS – Maintain DCPP Plant Assets – Includes all preventative and corrective maintenance activities for systems, structures, and components at the plant. This MWC relates to safety, reliability, or maintenance because the costs are associated with maintaining generation equipment.

MWC BT – Nuclear Generation Fees – Includes Nuclear Regulatory Commission (NRC) license fees and supporting contracts to conduct training programs for license and non-license operator, maintenance, engineering, and all general employee training development and delivery. This MWC is not related to safety, reliability, and/or maintenance.

MWC BU – Procure DCPP Materials & Services – Includes cost for under/over clearing of material burden. This MWC is not related to safety, reliability, and/or maintenance.

MWC BV – Maintain DCPP Plant Configuration – Includes design engineering, system engineering, component engineering, reactor engineering, in service testing and inspection, reliability engineering, and fire protection engineering. This MWC relates to safety, reliability, or maintenance because the costs are associated with the above programs, consistent with keeping the generation facility safe and reliable.

MWC EO – Provide Nuclear Support – Includes cost for plant support provided by PG&E's Corporate Support organizations such as security and communications. This MWC is not related to safety, reliability, and/or maintenance.

MWC IG – Manage Balancing Account Processes – Includes costs subject to the 2-way balancing account established for Nuclear Safety and Security regulatory mandated projects. This MWC relates to safety, reliability, or maintenance because the costs are associated with nuclear safety and security, consistent with keeping the generation facility safe.

MWC JV – Maintain Applications and Infrastructure – Includes costs for ongoing maintenance, operations and repair for PG&E's Information Technology (IT) applications, systems and infrastructure. This MWC is not related to safety, reliability, and/or maintenance.

MWC OM – Operational Management – Includes labor and employee-related costs to provide supervision and management support.

MWC OM also includes costs incurred by the administrative staff working for the supervisors/managers. This MWC is not related to safety, reliability, and/or maintenance.

MWC OS – Operational Support – Includes labor and employee-related costs to provide services and support that are unrelated to supervision and management. Examples include Business Finance and Sourcing that support the LOBs. This MWC is not related to safety, reliability, and/or maintenance.

J. Nuclear Generation MWC Descriptions - Capital

MWC 05 – Tools and Equipment – Includes replacement of tools and shop equipment. This MWC is not related to safety, reliability, and/or maintenance.

MWC 20 – DCPP Capital Projects – Includes replacement of capital structures, systems and components that no longer can be maintained to safely and reliably operate and protect the plant. There are three major drivers to these replacements: (1) reliability has degraded to cause replacement to be needed; (2) obsolete replacement material, not allowing proper maintenance to continue; and (3) regulatory driven NRC requirements. This MWC relates to safety, reliability, or maintenance because the costs are associated with the replacement of capital structures, systems and components that no longer can be maintained to safely and reliably operate and protect the plant.

MWC 2F – Build Applications and Infrastructure – Includes the costs to design, develop and enhance applications, systems and infrastructure technology solutions. This MWC is not related to safety, reliability, and/or maintenance.

1 K. Power Generation Comparison Summary Tables

TABLE 4-11
2023 RSAR
2023 GRC CYCLE POWER GENERATION EXPENSE COMPARISON SUMMARY
(THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	O&M Expense	Power Generation	Misc Expense	AB	8,046.3	3,595.2	(4,451.2)	-55.3%
2	O&M Expense	Power Generation	Manage Environmental Oper	AK	4,185.3	2,968.3	(1,217.1)	-29.1%
3	O&M Expense	Power Generation	Maint Resv,Dams&Waterways	AX	30,569.0	31,022.5	453.5	1.5%
4	O&M Expense	Power Generation	Habitat and Species Protection	AY	274.0	144.9	(129.1)	-47.1%
5	O&M Expense	Power Generation	Perf Reimburs Wk for Oth	BC	67.1	353.3	286.2	426.3%
6	O&M Expense	Power Generation	Manage Property & Bldgs	EP	1,274.1	1,939.5	665.4	52.2%
7	O&M Expense	Power Generation	Manage Var Bal Acct Processes	IG	26,737.0	25,495.2	(1,241.9)	-4.6%
8	O&M Expense	Power Generation	Maintain IT Apps & Infra	JV	539.9	317.3	(222.6)	-41.2%
9	O&M Expense	Power Generation	Operate Hydro Generation	KG	38,215.8	38,083.9	(131.9)	-0.3%
10	O&M Expense	Power Generation	Maint Hydro Generating Equip	KH	24,467.7	24,223.6	(244.2)	-1.0%
11	O&M Expense	Power Generation	Maint Hydro Bldg,Grnd,Infrast	KI	15,363.2	13,579.1	(1,784.1)	-11.6%
12	O&M Expense	Power Generation	License Compliance Hydro Gen	KJ	25,712.8	24,591.5	(1,121.3)	-4.4%
13	O&M Expense	Power Generation	Operate Fossil Generation	KK	14,949.8	15,712.8	763.0	5.1%
14	O&M Expense	Power Generation	Maint Fossil Generating Equip	KL	31,949.3	20,725.8	(11,223.5)	-35.1%
15	O&M Expense	Power Generation	Maint Fossil Bldg,Grnd,Infrast	KM	3,318.6	2,934.2	(384.4)	-11.6%
16	O&M Expense	Power Generation	Operate Alternative Gen	KQ	484.3	3,406.7	2,922.4	603.4%
17	O&M Expense	Power Generation	Maint AltGen Generating Equip	KR	1,351.6	3,905.8	2,554.1	189.0%
18	O&M Expense	Power Generation	Maint AltGen Bldg,Grnd,Infrast	KS	566.8	911.3	344.5	60.8%
19	O&M Expense	Power Generation	Operational Management	ОМ	3,496.0	2,339.4	(1,156.5)	-33.1%
20	O&M Expense	Power Generation	Operational Support	os	4,123.3	13,074.1	8,950.8	217.1%
21	O&M Expense	Power Generation	Corporate Items	ZC	1,575.3	1,459.7	(115.5)	-7.3%
22	O&M Expense	Power Generation	TOTAL		237,267.3	230,783.9	(6,483.4)	-2.7%

TABLE 4-12 2023 RSAR 2023 GRC CYCLE POWER GENERATION CAPITAL COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	мwс	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	Capital	Power Generation	Tools & Equipment	05	1,062.0	7,426.9	6,364.9	599.3%
2	Capital	Power Generation	Relicensing Hydro Gen	11	4,685.1	917.7	(3,767.5)	-80.4%
3	Capital	Power Generation	Implement Environment Projects	12	425.8	33.8	(392.0)	-92.1%
4	Capital	Power Generation	Build IT Apps & Infra	2F	2,755.9	4,951.3	2,195.4	79.7%
5	Capital	Power Generation	Instl/Rpl for Hydro Safety&Reg	2L	63,080.2	25,395.9	(37,684.2)	-59.7%
6	Capital	Power Generation	Instal/Repl Hydro Gneratng Eqp	2M	84,621.6	115,907.7	31,286.1	37.0%
7	Capital	Power Generation	Instal/Repl Resv,Dams&Waterway	2N	42,763.8	46,960.5	4,196.7	9.8%
8	Capital	Power Generation	Instl/Repl Hydr BldgGrndInfrst	2P	26,624.7	41,827.2	15,202.5	57.1%
9	Capital	Power Generation	Instal/Repl Fosil Gneratng Eqp	2S	3,487.4	14,734.9	11,247.5	322.5%
10	Capital	Power Generation	Instl/Repl Fosl BldgGrndInfrst	2T	1,588.3	1,149.2	(439.0)	-27.6%
11	Capital	Power Generation	Instl/Rpl for AltGen Safty&Reg	3A	6.5	0.0	(6.5)	-100.0%
12	Capital	Power Generation	Instal/Repl AltGen GneratngEqp	3B	718.6	2,064.7	1,346.0	187.3%
13	Capital	Power Generation	Hydroelec Lic & Lic Conditions	3H	145,223.8	35,346.7	(109,877.1)	-75.7%
14	Capital	Power Generation	Total		377,043.7	296,716.5	(80,327.2)	-21.3%

1 L. Power Generation Comparison by MWC for Safety, Reliability, and Maintenance Work Tables

TABLE 4-13 2023 RSAR 2023 GRC CYCLE POWER GENERATION EXPENSE COMPARISON BY MWC FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

				1	T		I								T		T		T		T	
	_ A	В	C1	C2	C3	C4	C5	D	E	F	G	Н	I	J	K1	K2	L	M1	M2	M3	N	0
	Type (O&M					RAMP Mitigation and/or	2023 GRC	RAMP Roll-	Program /	Program /	2023 Imputed	2023	Difference	Spending Percent	Spending Variance	Percentage Variance	2023 Cost		Forecast	1	1	
Line No	Expense or	Functional Area	MWC	MWC Name	RAMP Risk Name	Control Name	Testimony	up	Project Life	Project Year			for 2023 (\$)	Variance for	Explanation	Explanation	Variance	Scope	Schedule	Budget	Status	Completion Status Statement
	Capital)						Reference	(Yes/No)	(years)	•	Costs	Costs	(H-G)	2023 (%)	Required	Required	Explanation	(U, O, or T)	(U, O, or T)	(U, O, or T)		
	O&M			Maint																		
1	Expense	Power Generation	AX	Resv,Dams&Waterways	SRM Total	SRM Total	Ex 5, Ch 4	No	On-going	annual	30,569.0	31,022.5	453.5	1.5%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	O&M			Maint	Large Uncontrolled																	
2	Expense	Power Generation	AX	Resv,Dams&Waterways		C1 - Dam Safety Program	Ex 5, Ch 2	Yes	N/A	N/A	341.0	1,918.3	1,577.3	462.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M			Maint				1				1,01010	.,									
3	Expense	Power Generation	ΔΥ	Resv,Dams&Waterways	Large Uncontrolled Water Release	M1 - Internal Erosion Mitigation	Ex 5, Ch 2	Yes	N/A	N/A	0.0	580.9	580.9	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	· ·	T OWER CONGRESSION	701			g		1.00			0.0	000.0	000.0	100.070	1411		1111	1011	1,111			
4	O&M Expense	Power Generation	^~	Resv,Dams&Waterways	Large Uncontrolled	M2 - Spillway Remediation	Ev 5 Ch 2	Yes	N/A	N/A	0.0	150.3	150.3	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-4	<u> </u>	rower Generation	AA	TCSV, Damsavvaici ways		INZ - Opinway remediation	LX 0, OII 2	165	1471	1471	0.0	150.5	150.5	100.076	1471	1471	14/1	1471	1471	1471	1471	1471
-	O&M Evpoppe	Dawas Cananati	^~	Maint Resy Dame & Waters:	Large Uncontrolled	M4 - LLO Refurbishment	Ex 5. Ch 2	l Na	N/A	N/A	0.754.0	0.0	(0.754.2)	100.00/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	Expense	Power Generation	AX	Resv,Dams&Waterways		IVI4 - LLO REIUIDISIIIIENI	EX 0, UII Z	No	N/A	N/A	8,754.3	0.0	(8,754.3)	-100.0%	IWA	IN/A	IWA	IN/A	IWA	IN/A	IWA	N/A
	O&M	L			SRM Total (Non-	ODM Tatal (Non-DAMS)	E. E. Ob. 4			A1/A					N/A	N/A	N/A					AVA
6	Expense O&M	Power Generation	AX	Resv,Dams&Waterways	RAMP) SRM Total (Non-	SRM Total (Non-RAMP)	Ex 5, Ch 4	Yes	N/A	N/A	21,473.7	28,373.1	6,899.4	32.1%	N/A	N/A	IV/A	N/A	N/A	N/A	N/A	N/A
7	Expense	Power Generation	BC	Perf Reimburs Wk for Oth		SRM Total (Non-RAMP)	Ex 5, Ch 4	No	On-going	annual	67.1	353.3	286.2	426.3%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	O&M			Manage Var Bal Acct	,	, ,		1	gg										<u> </u>			
8	Expense	Power Generation	IG	Processes	SRM Total	SRM Total	Ex 5, Ch 4	No	On-going	annual	26,737.0	25,495.2	(1,241.9)	-4.6%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	O&M			Manage Var Bal Acct	Large Uncontrolled																	
9	Expense	Power Generation	IG		Water Release	C1 - Dam Safety Program	Ex 5, Ch 2	Yes	N/A	N/A	497.7	49.4	(448.4)	-90.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M			Manage Var Bal Acct	Large Uncontrolled																	
10	Expense	Power Generation	IG			M2 - Spillway Remediation	Ex 5. Ch 2	Yes	N/A	N/A	485.9	1.396.1	910.2	187.3%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	· ·					, ,		1				.,										
11	O&M Expense	Power Generation	10		SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 4	Yes	N/A	N/A	25.753.4	24.040.7	(1,703.7)	-6.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
- ''	O&M	rower Generation	10	Operate Hydro	i o uvii)	Oran rotal (North ann)	Lx 0, 011 4	165	1471	1471	25,755.4	24,049.7	(1,703.7)	-0.076	1471	1471	1477	1471	1471	1471	1471	1471
12	Expense	Power Generation	KG		SRM Total	SRM Total	Ex 5, Ch 4	No	On-going	annual	38,215.8	38,083.9	(131.9)	-0.3%	NO	NO	Below threshold variance.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	O&M			Operate I hidro	Laura I bassutusiis d																	
13	Expense	Power Generation	KG		Large Uncontrolled Water Release	M3 - Seismic Retrofit	Ex 5, Ch 2	Yes	N/A	N/A	0.0	213.4	213.4	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10		. c or ocheration	i.c				.,	100			0.0	210.4	210.4	100.070	1				1			
44	O&M Evpoppe	D	140		SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 4	,,	N/A	N/A	00.045.0	07.070.4	(0.45.0)	0.00/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WA
14	Expense	Power Generation	KG	Generation	raivir)	ORIVI TOTAL (NOT-RAIVIP)	EX 3, U114	Yes	IN/A	N/A	38,215.8	37,870.4	(345.3)	-0.9%	IWA	IN/A	IWA	IN/A	N/A	IN/A	IWA	IWA
	O&M				SRM Total (Non-														1 .			
15	Expense	Power Generation	KH	Equip	RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 4	No	On-going	annual	24,467.7	24,223.6	(244.2)	-1.0%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	O&M			Maint Hydro	SRM Total (Non-														1			
16	Expense	Power Generation	KI	Bldg,Grnd,Infrast	RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 4	No	On-going	annual	15,363.2	13,579.1	(1,784.1)	-11.6%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	O&M			License Compliance Hydro		00117	0. 4															
17	Expense	Power Generation	KJ	Gen	SRM Total	SRM Total	Ex 5, Ch 4	No	On-going	annual	25,712.8	24,591.5	(1,121.3)	-4.4%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	INA
	O&M			License Compliance Hydro			0. 0		l													L.,,
18	Expense	Power Generation	KJ	Gen	Water Release	C1 - Dam Safety Program	Ex 5, Ch 2	Yes	N/A	N/A	9,069.0	9,598.3	529.3	5.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M			License Compliance Hydro															1			
19	Expense	Power Generation	KJ	Gen	RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 4	Yes	N/A	N/A	16,643.8	14,993.1	(1,650.6)	-9.9%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M				SRM Total (Non-														1			
20	Expense	Power Generation	KK	Operate Fossil Generation	RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 5	No	On-going	annual	14,949.8	15,712.8	763.0	5.1%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
20	Expense	Power Generation	KK	Operate Fossil Generation	RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 5	No	On-going	annual	14,949.8	15,712.8	763.0	5.1%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A

TABLE 4-13 2023 RSAR RC CYCLE POWER GENERATION EXPENSE COMPARISON BY MWC FO

2023 GRC CYCLE POWER GENERATION EXPENSE COMPARISON BY MWC FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

		В	C1	C2	C3	C4	C5	D	F	F	G	Н	ı	J	K1	K2	L	M1	M2	M3	N	0
Line No Exp	Type O&M ense or apital)	Functional Area	мwс	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%)	Spending Variance Explanation Required	Percentage Variance Explanation Required	2023 Cost Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
O&M 21 Expe		Power Generation	KL	Maint Fossil Generating Equip	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 5	No	On-going	annual	31,949.3	20,725.8	(11,223.5)	-35.1%	YES		Program expenses were below imputed adopted values due to the Long-Term Service Agreement costs, which are levelized in the imputed adopted value; however, the outage work associated with these costs only occurs on a periodic basis once every 4 to 5 years depending on operating profile No major outage tied to the Long-Term Service Agreement occurred in 2023 at either Gateway Generation Station or Colusa Generation Station. Thus, no actual costs tied to the Agreement were recorded in 2023.		On-Target	On-Target		This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to support costs to maintain fossil power generating station equipment.
O&N 22 Expe		ower Generation	KM	Maint Fossil Bldg.Grnd.Infrast	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 5. Ch 5	No	On-going	annual	3,318.6	2,934.2	(384.4)	-11.6%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
O&M 23 Expe		Power Generation	КQ	Operate Alternative Gen	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 5	No	On-going	annual	484.3	3,406.7	2,922.4	603.4%	NO	NO	Below variance threshold.	Over	Over	Over		This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to support costs to operate alternative generation sites. In 2022, PG&E transferred O&M responsibilities for the Elkhorn Battery Energy Storage Station from Electric Distribution (Exhibit 4, MWC AB) to Power Generation (Exhibit 5, MWCs KQ and KR). Since the transfer occurred after the 2023 GRC was filed, the imputed adopted amounts for MWC KQ do not reflect Power Generation's ongoing O&M costs for the facility. Starting in the 2027 GRC, the Elkhorn Battery Energy Storage Station O&M costs will be forecast in the Energy Supply Exhibit.
O&N 24 Expe		Power Generation	KR	Maint AltGen Generating Equip	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 5	No	On-going	annual	1,351.6	3,905.8	2,554.1	189.0%	NO	NO	Below variance threshold.	Over	Over	Over		This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to support costs to maintain alternative generation sites. In 2022, PG&E transferred O&M responsibilities for the Elkhorn Battery Energy Storage Station from Electric Distribution (Exhibit 4, MWC AB) to Power Generation (Exhibit 5, MWCs KQ and KR). Since the transfer occurred after the 2023 GRC was filed, the imputed adopted amounts for MWC KR do not reflect Power Generation's ongoing O&M costs for the facility. Starting in the 2027 GRC, the Elkhorn Battery Energy Storage Station O&M costs will be forecast in the Energy Supply Exhibit.
O&N 25 Expe		ower Generation	KS	Maint AltGen Bldg,Grnd,Infrast	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 5	No	On-going	annual	566.8	911.3	344.5	60.8%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A

TABLE 4-14 2023 RSAR 2023 GRC CYCLE POWER GENERATION CAPITAL COMPARISON BY MWC FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

	T			1	T	1	T	T	Ι	1			Ī		T	T	T	I	1	T	
A	В	C1	C2	C3	C4	C5	D	E	F	G 2023	Н	I	J Spending	K1 Spending	K2 Percentage	L 2023	M1	M2 Forecast	M3	N	0
Type (O&M	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or	2023 GRC Testimony	RAMP Roll- up	Program / Project Life	Program /	Imputed	2023 Actual	Difference for 2023 (\$)	Percent Variance for	Variance Explanation	Variance Explanation	Cost	Scope	Schedule	Budget	Status	Completion Status Statement
Expense or Capital)	T directorial Accu		mvvo rume	TOWN TOOK NUME	Control Name	Reference	(Yes/No)	(years)	Project Year	Adopted Costs	Costs	(H-G)	2023 (%)	Required	Required	Variance Explanation	(U, O, or T)				Competion states statement
													((H-G)/G*100)	(Y/N)	(Y/N)						
																Program expenses were below imputed adopted values due to rescheduled work from 2023 into the 2024-2026					This program's work is ongoing and will continue in PG&E's 2023 GRC
																period, including the following work: Fordyce Dam Leakage Reduction, Pit 6 Radial Gate 1 Replace Arms &					period. The purpose of this program is a continuing effort to support capital costs primarily related to employee or public safety and
1 Capital	Dawes Consortion		tl/Rpl for Hydro fety&Reg	SRM Total	SRM Total	Ex 5, Ch 4	No	0		63,080.2	25,395.9	(37,684.2)	-59.7%	YES	YES	Trunnions, and Lower Bucks Dam Resurface Downstream Face.	On-Target	On-Target	On-Target	Droggeding as planned	regulatory requirements that are not connected with relicensing for hydroelectric generation.
	Power Generation	Ins	tl/Rpl for Hydro	Large Uncontrolled	M1 - Internal Erosion	Ex 5, Ch 2, p. 2-		On-going	annual												
2 Capital	Power Generation	Ins	fety&Reg stl/Rpl for Hydro	Water Release Large Uncontrolled	Mitigation	13; p. WP 2-2 Ex 5, Ch 2, p. 2-	Yes	N/A	N/A	25,100.9	6,464.6	(18,636.3)	-74.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WA
3 Capital	Power Generation		fety&Reg tl/Rpl for Hydro	Water Release Large Uncontrolled	M2 - Spillway Remediation	13; p. WP 2-2 Ex 5, Ch 2, p. 2-	Yes	N/A	N/A	4,225.4	577.8	(3,647.5)	-86.3%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Capital	Power Generation		fety&Reg ttl/Rpl for Hydro	Water Release SRM Total (Non-	M3 - Seismic Retrofit	13; p. WP 2-2	Yes	N/A	N/A	26,938.4	333.6	(26,604.8)	-98.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 Capital	Power Generation		fety&Reg	RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 4, p. 4-78	Yes	N/A	N/A	6,814.5	18,019.9	11,205.4	164.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																Program expenses were above imputed adopted values due to: 1) work rescheduled from 2021 and 2022 into					
																2023, and 2) emergent work exceeding the forecast at the time of the 2023 GRC. Rescheduled work included					
																Caribou 2-5 Generator Rewind, Pit 7 Replace					
																Transformer Bank 1, and Haas Unit 1 Rotor Pole Refurbishment. Emergent work included Bucks Creek Unit					This program's work is ongoing and will continue in PG&E's 2023 GRC
		In	stal/Bank Hydra	SRM Total (Non-												2 Replace Rotor, Cresta Replace Unit 2 Seal Rings, Pit 1 Unit 1 Refurbish Lower Guide Bearing, and Belden					period. The purpose of this program is a continuing effort to support capital costs to install/replace generating equipment or components to
6 Capital	Power Generation	2M Gr	tal/Repl Hydro neratng Eqp	RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 4	No	On-going	annual	84,621.6	115,907.7	31,286.1	37.0%	YES	YES	Replace Thrust Bearing.	On-Target	On-Target	On-Target	Proceeding as planned	support hydroelectric generation activities.
7 Capital	Power Generation		stal/Repl sv,Dams&Waterway	SRM Total	SRM Total	Ex 5, Ch 4	No	On-going	annual	42,763.8	46,960.5	4,196.7	9.8%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as planned	N/A
8 Capital	Power Generation		tal/Repl sv,Dams&Waterway	Large Uncontrolled Water Release	C1 - Dam Safety Program	Ex 5, Ch 4, p. 4-78	Yes	N/A	N/A	0.0	1,034.6	1,034.6	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WA
9 Capital	Power Generation		tal/Repl sv,Dams&Waterway	Large Uncontrolled Water Release	M1 - Internal Erosion Mitigation	Ex 5, Ch 2, p. 2- 13; p. WP 2-2	Yes	N/A	N/A	416.4	3,433.5	3,017.1	724.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 Capital	Power Generation	Ins	tal/Repl sv,Dams&Waterway	Large Uncontrolled Water Release	M2 - Spillway Remediation	Ex 5, Ch 2, p. 2-	Yes	N/A	N/A	173.5	4,727.4	4,553.9	2624.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Ins	stal/Repl	Large Uncontrolled		Ex 5, Ch 2, p. 2-		N/A	N/A					N/A		N/A	N/A				N/A
11 Capital	Power Generation	Ins	tal/Repl	Water Release Large Uncontrolled	M3 - Seismic Retrofit	13; p. WP 2-2 Ex 5, Ch 2, p. 2-	Yes			0.0	51.4	51.4	100.0%		N/A			N/A	N/A	N/A	IWA
12 Capital	Power Generation	Ins	sv,Dams&Waterway stal/Repl	Water Release SRM Total (Non-		13; p. WP 2-2	Yes	N/A	N/A	8,825.6	8,428.1	(397.5)	-4.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13 Capital	Power Generation	2N Re	sv,Dams&Waterway	RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 4, p. 4-78	Yes	N/A	N/A	33,348.1	29,285.5	(4,062.6)	-12.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																Program expenses exceeded imputed adopted values due					
																to: 1) rescheduled work, and 2) emergent work. The					
																rescheduled work includes Helms McKinley Grove Road Improvements, which was accelerated from 2025-2026					This program's work is ongoing and will continue in PG&E's 2023 GRC
		Inc	stl/Repl Hydr	SRM Total (Non-												into 2023, and Rock Creek Valvehouse Replace Roof, which was rescheduled from 2022 into 2023. The					period. The purpose of this program is a continuing effort to support capital costs to install/replace buildings, grounds and infrastructure to
14 Capital	Power Generation		lgGrndInfrst	RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 4	No	On-going	annual	26,624.7	41,827.2	15,202.5	57.1%	YES	YES	emergent road work was at Caribou Powerhouse.	On-Target	On-Target	On-Target	Proceeding as planned	support hydroelectric generation activities, including roads and bridges.
																Program expenses exceeded imputed adopted values due					
																to emergent work at Gateway, Colusa, and Humboldt. The Gateway facility work includes the main steam shop					
																control valve body replacement and alternative design steam attemperator. The Colusa facility work includes the					
																Heat Recovery Steam Generator (HRSG) 1 bypass valve					
																replacement, the HRSG1 blowdown tank replacement, and the flex seal replacement unit 1 and 2. The Humboldt					This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is a continuing effort to support
		In	tal/Repl Fosil Gneratr	SPM Total (Non												facility work includes the annual critical spares replacement program and the Unified Controls (UNIC)					capital costs to install new or replace existing generating equipment or components to support fossil generation activities. As the fossil
15 Capital	Power Generation	2S Ec	p	RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 5	No	On-going	annual	3,487.4	14,734.9	11,247.5	322.5%	YES	YES	software Upgrade for 2023-2024.	On-Target	On-Target	On-Target	Proceeding as planned	generating facilities age, the capital replacement costs accelerate.
16 Capital	Power Generation		tl/Repl Fosl lgGrndInfrst	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 5	No	On-going	annual	1,588.3	1,149.2	(439.0)	-27.6%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as planned	N/A
17 Capital	Power Generation	3A Sa	tl/Rpl for AltGen fty&Reg	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 5, Ch 5	No	On-going	annual	6.5	0.0	(6.5)	-100.0%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as planned	N/A
18 Capital	Power Generation	Ins	tal/Repl AltGen neratngEgp	SRM Total (Non- RAMP)		Ex 5, Ch 5	No	On-going	annual		2,064.7	1,346.0	187.3%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target		
10 Capital	r ower Generation	35 0	стандечр	i v uvii)	Order (Note: Court of	EX 0, OH 0	140	OTFGOING	annaa	7 10.0	2,004.7	1,340.0	107.570	140	NO	Program expenses were below imputed adopted due to	Oll-Target	OlFraiget	Oir raiget	1 Toolecang as planned	TVA
																two key drivers: (1) a delay in the regulatory process related to FERC operating license renewals for the Drum-					
																Spaulding license, McCloud-Pit license and the Upper North Fork Feather River license. Delays in license					This program's work is ongoing and will continue in PG&E's 2023 GRC
																renewals create delays in the forecasted start date of the					period. The purpose of this program is a continuing effort to support
																capital work required as part of the new operating license; and (2) rescheduled capital projects originating from the	1				capital costs assigned to the HLBA. This MWC includes: costs for relicensing existing FERC licenses; obtaining major license
																spillway assessment recommendations resulting from the 2017 Oroville spillway incident. The rescheduled projects					amendments; surrendering licenses for facilities that are no longer economic; complying with the conditions required by existing and newly
																include McCloud Spillway improvement, Tiger Creek					issued FERC licenses and major license amendments; and anticipated
																Regulator Spillway Improvement, and Butt Valley Spillway Improvement.					to be required by pending new FERC licenses for licenses. This includes costs for all pending licenses as of January 1, 2014, and new
			droelec Lic & Lic																		licenses applied for after January 1, 2014. This MWC also includes the
19 Capital	Power Generation	3H Co	nditions	SRM Total	SRM Total	Ex 5, Ch 4	No	On-going	annual	145,223.8	35,356.7	(109,867.1)	-75.7%	YES	YES	Rescheduled work from 2023 is expected to be completed in the 2024-2026 period.	On-Target	On-Target	On-Target	Proceeding as planned	costs associated with work required because of the 2017 Oroville spillway incident.
20 Capital	Power Generation	3H Co	droelec Lic & Lic Inditions	Large Uncontrolled Water Release	M2 - Spillway Remediation	Ex 5, Ch 2, p. 2- 13; p. WP 2-2	Yes	N/A	N/A	73,892.8	18,869.2	(55,023.6)	-74.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21 Capital	Power Generation		droelec Lic & Lic	SRM Total (Non- RAMP)		Ex 5, Ch 4, p. 4-78		N/A	N/A			(54,852.1)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
Z1 Supital	ower Generation	311 00		J. V /			162	1 .4/3		11,528.0	10,477.0	(04,002.1)	-10.970			1471			1973	1973	

M. Power Generation Comparison by MWC for Non-Safety, Reliability, and Maintenance Work Tables

TABLE 4-15
2023 RSAR
2023 GRC CYCLE POWER GENERATION CAPITAL COMPARISON BY MWC FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

	А	В	C1	C2	C3	C4	C5	D	Е	F	G	Н	I	J
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
				Business / Miscellaneous										
1	O&M Expense	Power Generation	AB	Expense	Non-SRM Total	Non-SRM Total	Ex 5, Ch 4	No	On-going	annual	8,046.3	3,595.2	(4,451.2)	-55.3%
				Manage Environmental										
2	O&M Expense	Power Generation	AK	Operations	Non-SRM Total	Non-SRM Total	Ex 5, Ch 4	No	On-going	annual	4,185.3	2,968.3	(1,217.1)	-29.1%
				Habitat and Species										
3	O&M Expense	Power Generation	AY	Protection	Non-SRM Total	Non-SRM Total	Ex 5, Ch 4	No	On-going	annual	274.0	144.9	(129.1)	-47.1%
				Manage Property &										
4	O&M Expense	Power Generation	EP	Buildings	Non-SRM Total	Non-SRM Total	Ex 5, Ch 4	No	On-going	annual	1,274.1	1,939.5	665.4	52.2%
				Maintain Applications and										
5	O&M Expense	Power Generation	JV	Infrastructure	Non-SRM Total	Non-SRM Total	Ex 5, Ch 7	No	On-going	annual	539.9	317.3	(222.6)	-41.2%
6	O&M Expense	Power Generation	ОМ	Operational Management	Non-SRM Total	Non-SRM Total	Ex 5, Ch 4 & Ch 5	No	On-going	annual	3,496.0	2,339.4	(1,156.5)	-33.1%
7	O&M Expense	Power Generation	os	Operational Support	Non-SRM Total	Non-SRM Total	Ex 5, Ch 4 & Ch 5	No	On-going	annual	4,123.3	13,074.1	8,950.8	217.1%
8	O&M Expense	Power Generation	ZC	Corporate Items	Non-SRM Total	Non-SRM Total	Ex 5, Ch 4	No	On-going	annual	1,575.3	1,459.7	(115.5)	-7.3%

TABLE 4-16
2023 RSAR
2023 GRC CYCLE POWER GENERATION CAPITAL COMPARISON BY MWC FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

	А	В	C1	C2	C3	C4	C5	D	Е	F	G	Н	I	J
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
1	Capital	Power Generation	05	Tools & Equipment	Non-SRM Total	Non-SRM Total	Ex 5, Ch 4	No	On-going	annual	1,062.0	7,426.9	6,364.9	599.3%
				Relicensing and License Compliance Hydro Electric										
2	Capital	Power Generation	11	Generation	Non-SRM Total	Non-SRM Total	Ex 5, Ch 4	No	On-going	annual	4,685.1	917.7	(3,767.5)	-80.4%
3	Capital	Power Generation	12	Implement Environmental Projects	Non-SRM Total	Non-SRM Total	Ex 5, Ch 4	No	On-going	annual	425.8	33.8	(392.0)	-92.1%
4	Capital	Power Generation	2F	Build Applications and Infrastructure	Non-SRM Total	Non-SRM Total	Ex 5, Ch 7	No	On-going	annual	2,755.9	4,951.3	2,195.4	79.7%

N. Power Generation MWC Descriptions – Expense

MWC AB – Business/Miscellaneous Expense – Includes costs associated with efficiency savings, Land Conservation Commitment, Contracts and Consulting Services, and miscellaneous support costs. This MWC is not related to safety, reliability, and/or maintenance.

MWC AK – Manage Environmental Operations – Includes costs associated with managing environmental operations. This MWC is not related to safety, reliability, and/or maintenance.

MWC AX – Maintain Hydro Reservoirs, Dams & Waterways – Includes costs associated with maintenance of hydroelectric reservoirs, dams, and water conveyance systems. These maintenance activities also ensure safety through routine and preventive maintenance. This MWC relates to safety, reliability, or maintenance because the costs are associated with maintaining the hydro dams and water conveyance systems.

MWC AY – Habitat and Species Protection – Includes compliance with regulations to protect endangered species and sensitive habitats as part of PG&E's broader Environmental Stewardship Program. This MWC is not related to safety, reliability, and/or maintenance.

MWC BC – Perform Reimbursable Work for Others – Includes costs associated with managing the irrigation district contracts and the reimbursable expenses incurred to perform maintenance on behalf of the irrigation districts. Also includes reimbursable work for other third parties. This MWC relates to safety, reliability, or maintenance because the costs are associated with performing maintenance work for third parties.

MWC EP – Manage Property & Buildings – Includes costs associated with managing land rights and property leases in support of the operation of hydro power plants. This MWC is not related to safety, reliability, and/or maintenance.

MWC ES – Implement Environmental Projects – Includes costs associated with the implementing environmental projects and programs. This MWC is not related to safety, reliability, and/or maintenance.

MWC IG – Balancing Account – Regulatory Compliance Hydro Electric Generation – includes costs assigned to the Hydro Licensing Balancing Account (HLBA). This MWC includes: (1) costs to maintain Federal Energy Regulatory Commission (FERC) license compliance to support hydroelectric generation

activities for licenses received after January 1, 2014; (2) regulatory fees; (3) costs associated with implementation of the Crane Valley Recreation Settlement Agreement; and (4) costs associated with work required because of the 2017 Oroville spillway incident. This MWC relates to safety, reliability, or maintenance because the costs are associated with regulatory compliance that often includes safety and/or reliability related expenditures. Please see Section 10, Cost Recovery Balancing and Memorandum Accounts.

MWC IG – Wildfire Mitigation Plan Memorandum Account (WMPMA) – Includes costs for which PG&E is seeking recovery through WMPMA. This MWC relates to safety, reliability, or maintenance because the costs are associated with clearing a defensible space around the generation facilities.

MWC JV – Maintain Applications and Infrastructure – Includes costs for ongoing maintenance, operations and repair for PG&E's IT applications, systems and infrastructure. This MWC is not related to safety, reliability, and/or maintenance.

MWC KG – Operate Hydro Electric Generation – Includes costs to operate hydroelectric power generating stations and associated facilities. This MWC relates to safety, reliability, or maintenance because the costs are associated with operating the hydro facilities safely and reliably.

MWC KH – Maintain Hydro Electric Generating Equipment – Includes costs to maintain generating equipment or components to support hydroelectric generation activities. This MWC relates to safety, reliability, or maintenance because the costs are associated with maintaining generation equipment.

MWC KI – Maintain Hydro Electric Generation Buildings, Grounds & Infrastructure – Includes costs to maintain buildings, grounds and infrastructure to support hydroelectric generation activities, including roads and bridges. This MWC relates to safety, reliability, or maintenance because the costs are associated with maintaining buildings, grounds and infrastructure.

MWC KJ – Regulatory Compliance Hydro Electric Generation – Includes costs to maintain FERC license compliance to support hydroelectric generation activities for licenses received prior to January 1, 2014. This MWC relates to safety, reliability, or maintenance because the costs are associated with regulatory compliance that often includes safety and/or reliability related expenditures.

MWC KK – Operate Fossil Generation – Includes costs to operate fossil power generating stations. This MWC relates to safety, reliability, or maintenance because the costs are associated with operating the fossil facilities safely and reliably.

MWC KL – Maintain Fossil Generating Equipment – Includes costs to maintain fossil power generating station equipment. This MWC relates to safety, reliability, or maintenance because the costs are associated with maintaining generation equipment.

MWC KM – Maintain Fossil Generation Buildings, Grounds & Infrastructure – Includes costs to maintain buildings, grounds and infrastructure on the plant site to support fossil generation activities, including buildings and facilities, roadways, landscaping, retaining walls, fencing, and yard lighting systems. This MWC relates to safety, reliability, or maintenance because the costs are associated with maintaining buildings, grounds and infrastructure.

MWC KQ – Operate Alternative Generation – Includes costs to operate alternative generation sites. This MWC relates to safety, reliability, or maintenance because the costs are associated with safely and reliably operating the other generation facilities.

MWC KR – Maintain Alternative Generation Generating Equipment – Includes costs to maintain alternative power generating station equipment. This MWC relates to safety, reliability, or maintenance because the costs are associated with maintaining generation equipment.

MWC KS – Maintain Alternative Generation Building, Ground,
Infrastructure – Includes costs to maintain photovoltaic and fuel cell generation common facilities. This MWC relates to safety, reliability, or maintenance because the costs are associated with maintaining buildings, grounds and infrastructure.

MWC OM – Operational Management – Includes labor and employee related costs to provide supervision and management support. MWC OM also includes costs incurred by the administrative staff working for the supervisors/managers. This MWC is not related to safety, reliability, and/or maintenance.

MWC OS – Operational Support – Includes labor and employee related costs to provide services and support that are unrelated to supervision and

management. Examples include Business Finance and Sourcing that support 1 2 the LOBs. This MWC is not related to safety, reliability, and/or maintenance. **MWC ZC – Corporate Items** – Includes enterprise-level expenses and 3 revenues that are planned and managed separately from Business Unit budgets. 4 5 Examples include environmental liabilities, insurance, workers' compensation. This MWC is not related to safety, reliability, and/or maintenance. 6 O. Power Generation MWC Descriptions – Capital 7 8 **MWC 01 – IT Computing Equipment** – Includes capital costs to replace 9 computing equipment. This MWC is not related to safety, reliability, and/or maintenance. 10 **MWC 03 – Office Furniture & Equipment** – Includes capital costs to 11 12 replace office furniture and equipment. This MWC is not related to safety, reliability, and/or maintenance. 13 **MWC 05 – Tools & Equipment** – Includes purchase of tools and equipment 14 15 required to perform various functions to maintain the safety and reliability of fossil and hydro electric generation operations. This MWC is not related to 16 safety, reliability, and/or maintenance. 17 **MWC 11 – Relicensing and License Compliance Hydro Electric** 18 **Generation** – Includes costs for complying with the conditions required by 19 FERC licenses received prior to January 1, 2014, and other compliance work 20 21 generally related to facility safety. This MWC is not related to safety, reliability, 22 and/or maintenance. **MWC 12 – Implement Environmental Projects** – Includes costs for capital 23 24 projects to comply with water and air quality regulations and various oil spill prevention projects. This MWC is not related to safety, reliability, and/or 25 26 maintenance. 27 **MWC 2F - Build Applications and Infrastructure** – Includes the costs to design, develop and enhance applications, systems and infrastructure 28 technology solutions. This MWC is not related to safety, reliability, and/or 29 30 maintenance. MWC 2L – Install/Replace for Hydro Electric Generation Safety & 31

employee or public safety and regulatory requirements that are not connected

Regulatory Requirements – Includes capital costs primarily related to

32 33 with relicensing for hydroelectric generation. This MWC relates to safety, reliability, or maintenance because the costs are associated with hydro safety.

MWC 2M – Install/Replace Hydro Electric Generating Equipment – Includes capital costs to install/replace generating equipment or components to support hydroelectric generation activities. This MWC relates to safety, reliability, or maintenance because the costs are associated with installing/replacing generating equipment that is consistent with keeping the generation facilities reliable.

MWC 2N – Install/Replace Reservoirs, Dams & Waterways – Includes capital costs to support the operation of reservoirs, dams and waterways. This MWC relates to safety, reliability, or maintenance because the costs are associated with installing/replacing equipment related to dams and water conveyance systems for safe and reliable operations.

MWC 2P – Install/Replace Hydro Electric Generation Buildings,
Grounds & Infrastructure – Includes capital costs to install/replace buildings,
grounds and infrastructure to support hydroelectric generation activities,
including roads and bridges. This MWC relates to safety, reliability, or
maintenance because the costs are associated with installing/replacing hydro
buildings, grounds, and infrastructure to operate the generation facilities in a
safe and reliable manner.

MWC 2R – Install/Replace Fossil Generating Safety & Regulatory Requirements – Includes capital costs primarily related to employee safety or regulatory requirements for fossil generation. This MWC relates to safety, reliability, or maintenance because the costs are associated with fossil safety.

MWC 2S – Install/Replace Fossil Generating Equipment – Includes capital costs to install new or replace existing generating equipment or components to support fossil generation activities. This MWC relates to safety, reliability, or maintenance because the costs are associated with installing/replacing generating equipment that is consistent with keeping the generation facilities reliable.

MWC 2T – Install/Replace Fossil Generation Buildings, Grounds & Infrastructure – Includes capital costs to install or replace new buildings, grounds and infrastructure on the plant site to support fossil generation activities. This MWC relates to safety, reliability, or maintenance because the costs are

associated with installing/replacing fossil buildings, grounds, and infrastructure to operate the generation facilities in a safe and reliable manner.

MWC 3A – Install/Replace Alternative Fossil Generation Safety and Regulation – Includes capital costs associated with the installation and/or replacement of safety equipment for alternative generation. This MWC relates to safety, reliability, or maintenance because the costs are associated with alternative generation safety.

MWC 3B – Install/Replace Alternative Generation Equipment – Includes capital costs associated with the installation of solar photovoltaic generation equipment. This MWC relates to safety, reliability, or maintenance because the costs are associated with installing/replacing generating equipment that is consistent with keeping the generation facilities reliable.

MWC 3H – Balancing Account – Relicensing Hydro Electric

Generation – Includes costs assigned to the HLBA. This MWC includes:

(1) costs for relicensing existing FERC licenses; obtaining major license amendments; surrendering licenses for facilities that are no longer economic; complying with the conditions required by existing and newly issued FERC licenses and major license amendments; and anticipated to be required by pending new FERC licenses for licenses. This includes costs for all pending licenses as of January 1, 2014, and new licenses applied for after January 1, 2014. This MWC also includes the costs associated with work required because of the 2017 Oroville spillway incident. This MWC relates to safety, reliability, and/or maintenance because some costs are associated with spillway work that will be required because of the Oroville spillway incident. Please see Section 10, Cost Recovery Balancing and Memorandum Accounts.

PACIFIC GAS AND ELECTRIC COMPANY SECTION 5 CUSTOMER AND COMMUNICATIONS IMPUTED ADOPTED VS. RECORDED COMPARISON

PACIFIC GAS AND ELECTRIC COMPANY SECTION 5 CUSTOMER AND COMMUNICATIONS IMPUTED ADOPTED VS. RECORDED COMPARISON

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PACIFIC GAS AND ELECTRIC COMPANY SECTION 5 CUSTOMER AND COMMUNICATIONS IMPUTED ADOPTED VS. RECORDED COMPARISON

A. Introduction

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This section includes a comparison of the 2023 (2023 General Rate Case (GRC) Cycle) imputed adopted spend versus 2023 recorded for Pacific Gas and Electric Company's (PG&E or the Company) Customer and Communications functional area. It also provides Major Work Category (MWC) descriptions and cost-variance explanations for those programs that are related to safety, reliability, or maintenance. The MWC descriptions include how each program relates to safety, reliability, or maintenance, pursuant to Decision 19-04-020.

B. Comparison Summary Tables

TABLE 5-1 2023 RSAR 2023 GRC CYCLE CUSTOMER AND COMMUNICATIONS EXPENSE COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	O&M Expense	Customer and Communications	Misc Expense	AB	0.0	0.6	0.6	100.0%
2	O&M Expense	Customer and Communications	Read & Investigate Meters	AR	(176.0)	(1,060.8)	(884.8)	-502.8%
3	O&M Expense	Customer and Communications	Manage Customer Inquiries	DK	62,628.7	64,535.2	1,906.5	3.0%
4	O&M Expense	Customer and Communications	Develop New Revenue	EL	41,051.8	39,477.0	(1,574.9)	-3.8%
5	O&M Expense	Customer and Communications	Change/Maint Used Elec Meter	EY	896.7	679.9	(216.8)	-24.2%
6	O&M Expense	Customer and Communications	Manage Var Cust Care Processes	EZ	48,080.1	60,885.6	12,805.5	26.6%
7	O&M Expense	Customer and Communications	Spc A&G/Oth Csts-Bud Dept	FA	0.0	85.7	85.7	100.0%
8	O&M Expense	Customer and Communications	Retain & Grow Customers	FK	736.9	317.4	(419.4)	-56.9%
9	O&M Expense	Customer and Communications	Manage Energy Efficiency-NonBA	GM	11,230.9	8,527.5	(2,703.4)	-24.1%
10	O&M Expense	Customer and Communications	Change/Maint Used Gas Meters	HY	6,690.7	4,685.5	(2,005.2)	-30.0%
11	O&M Expense	Customer and Communications	Manage Var Bal Acct Processes	IG	35,501.4	35,491.9	(9.6)	0.0%
12	O&M Expense	Customer and Communications	Bill Customers	IS	49,274.1	61,574.2	12,300.1	25.0%
13	O&M Expense	Customer and Communications	Manage Credit	IT	14,834.1	22,518.9	7,684.8	51.8%
14	O&M Expense	Customer and Communications	Collect Revenue	IU	12,739.4	7,776.5	(4,962.9)	-39.0%
15	O&M Expense	Customer and Communications	Provide Account Services	IV	17,757.8	15,260.3	(2,497.5)	-14.1%
16	O&M Expense	Customer and Communications	Maintain IT Apps & Infra	JV	19,323.2	10,527.5	(8,795.7)	-45.5%
17	O&M Expense	Customer and Communications	Prov Advertising Svcs	LB	0.0	4,070.1	4,070.1	100.0%
18	O&M Expense	Customer and Communications	Prov Corporate Communication	LI	0.0	2,233.0	2,233.0	100.0%
19	O&M Expense	Customer and Communications	Prov Corp Affairs Svcs	LJ	14,283.2	5,362.6	(8,920.6)	-62.5%
20	O&M Expense	Customer and Communications	Operational Management	OM	11,489.8	4,773.2	(6,716.6)	-58.5%
21	O&M Expense	Customer and Communications	Operational Support	os	0.0	221.4	221.4	100.0%
22	O&M Expense	Customer and Communications	TOTAL		346,342.9	347,943.2	1,600.3	0.5%

TABLE 5-2 2023 RSAR C CYCLE CUSTOMER AND CO

2023 GRC CYCLE CUSTOMER AND COMMUNICATIONS CAPITAL COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	Capital	Customer and Communications	IT - Desktop Computers	01	0.0	98.5	98.5	100.0%
2	Capital	Customer and Communications	Tools & Equipment	05	110.2	71.7	(38.6)	-35.0%
3	Capital	Customer and Communications	Misc Capital	21	110.2	8,542.6	8,432.4	7649.2%
4	Capital	Customer and Communications	Install New Electric Meters	25	28,992.1	29,176.1	184.0	0.6%
5	Capital	Customer and Communications	EV - Station Infrastructure	28	0.0	14,866.0	14,866.0	100.0%
6	Capital	Customer and Communications	Build IT Apps & Infra	2F	30,095.0	58,163.0	28,068.0	93.3%
7	Capital	Customer and Communications	Install/Repl Var Bal Acct	3M	0.0	5,462.7	5,462.7	100.0%
8	Capital	Customer and Communications	Install New Gas Meters	74	82,311.2	68,078.4	(14,232.8)	-17.3%
9	Capital	Customer and Communications	TOTAL		141,618.8	184,458.9	42,840.2	30.3%

1 C. Comparison by MWC for Safety, Reliability, and Maintenance Work

TABLE 5-3 2023 RSAR 2023 GRC CYCLE CUSTOMER AND COMMUNICATIONS EXPENSE COMPARISON BY MWC FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

Δ	R	C1	C2	C3	C4	C5	D		Е	G	ш			K1	K2	1	M1	M2	M3	N O
		CI	02		U4				Г		П	'	Spending	Spending	Percentage		IVI I	Forecast	IVIO	N O
Type Line No (O&M Expense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Percent Variance for 2023 (%) ((H-G)/G*100)	Variance Explanation Required (Y/N)	Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status Completion Status Statement
1 O&M Expense	Customer and Communications	EY	Change/Maint Used Elec Meter	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 6, Ch 7	No	On-going	Annual	896.7	679.9	(216.8)	-24.2%	NO	NO	Below variance threshold.	On-Target	On-Target	Under	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to engage in preventive and corrective maintenance for electric meters meter programming, meter network maintenance, and electric meter accuracy testing.
2 O&M Expense	Customer and Communications	GM	Manage Energy Efficiency- NonBA	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 6, Ch 3	No	On-going	Annual	11,230.9	8,527.5	(2,703.4)	-24.1%	NO	NO	Below variance threshold.	On-Target	On-Target	Under	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to perform required safety and compliance work associated with Low Income Energy Efficiency direct installation measures, including Natural Gas Appliance Testing, and to support Cooling Centers.
3 O&M Expense	Customer and Communications	HY	Change/Maint Used Gas Meters	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 6, Ch 7	No	On-going	Annual	6,690.7	4,685.5	(2,005.2)	-30.0%	NO	NO	Below variance threshold.	On-Target	On-Target	Under	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to perform gas meter maintenance activities that do not result in new meter exchanges, including meter tests, minimal regulator maintenance, meter/module communication trouble Proceeding as planned shooting, and meter/module repairs.
4 O&M Expense	Customer and Communications	IG	Manage Var Bal Acct Processes	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 6, Ch 2 & 11	No	On-going	Annual	35,501.4	35,491.9	(9.6)	0.0%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to perform wildfire risk mitigation work that is not otherwise recovered in PG&E's adopted revenue requirements.
5 O&M Expense	Customer and Communications	LB	Prov Advertising Svcs	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 6, Ch 11	No	On-going	Annual	0.0	4,070.1	4,070.1	100.0%	NO	NO	Below variance threshold.	On-Target	On-Target	Over	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to provide above-the-line (ATL) advertising campaigns to educate and inform the public on important safety issues; Proceeding as planned

TABLE 5-4

2023 RSAR 2023 GRC CYCLE CUSTOMER AND COMMUNICATIONS CAPITAL COMPARISON BY MWC FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	СЗ	C4	C5	D	Е	F	G	Н	ı	J	K1	K2	L	M1	M2	M3	N	0
	Type (O&M		MWC		RAMP Risk Name	RAMP Mitigation and/or	2023 GRC		Program /	Program /	2023 Imputed	2023	Difference	Spending Percent	Spending Variance	Percentage Variance	2023 Cost		Forecast			
Line No	Expense or Capital)	Functional Area	MWC	MWC Name	RAMP RISK Name	Control Name	Testimony Reference	up (Yes/No)	Project Life (years)	Project Year		Actual Costs	for 2023 (\$) (H-G)	Variance for 2023 (%) ((H-G)/G*100)	Explanation Required (Y/N)	Explanation Required (Y/N)	Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
1	Capital	Customer and Communications	05 1	Tools & Equipment	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 6, Ch 7	No	On-going	Annual	110.2	71.7	(38.6)	-35.0%	NO	NO	Below threshold variance.	On-Target	On-Target	Under	Proceeding as planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to provide tools and equipment used by field technicians and meter repair facilities to perform field metering and meter repair activities.
2	Capital	Customer and Communications	25	Install New Electric Meters	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 6, Ch 7	No	On-going	Annual	28,992.1	29,176.1	184.0	0.6%	NO	NO	Below threshold variance.	On-Target	On-Target	On-Target	Proceeding as planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to provide new electric meter purchases for new customer growth, replacement of failed units, and the associated installation labor necessary to perform electric meter installations, exchanges, removals, and retirements.
3	Capital	Customer and Communications	3M	install/Repl Var Bal Acct	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	NA - Emergent work, not included in 2023 GRC forecast	No	On-going	Annual	0.0	5,462.7	5,462.7	100.0%	NO	NO	Below threshold variance.	On-Target	On-Target	Over	Emergent	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to perform wildfire risk mitigation work that is not otherwise recovered in PG&E's adopted revenue requirements.
4	Capital	Customer and Communications	74	install New Gas Meters	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 6, Ch 7	No	On-aoina	Annual	82 311 2	68.078.4	(14,232.8)	-17.3%	NO.	NO	Below threshold variance.	On-Target	On-Target	Under	Proceeding as planned	This program's work is ongoing and will continue in PG&E's 2023 GRC period. The purpose of this program is to provide new gas meter purchases for new customer growth, replacement of failed units, and the associated installation labor necessary to perform gas meter installations, exchanges, removals and retirements.

D. MWC Descriptions - Expense

MWC AB – Miscellaneous Expense – Includes administrative and general work costs (i.e., benefiting the entire corporation and not just one functional area). This MWC does not relate to safety, reliability, or maintenance.

MWC AR – Read and Investigate Meters – Includes costs for dedicated meter readers, field resources performing manual meter reading activities, as well as the systems, administration and clerical support necessary to effectively perform these activities. This MWC does not relate to safety, reliability, or maintenance.

MWC DK – Manage Customer Inquiries – Includes costs incurred in operating the Company's four Contact Centers, which handle over 15 million calls per year, with approximately five million of these handled by a customer service representative. MWC DK also includes costs for PG&E's Escalated Complaints Management team which responds to concerns and complaints that customers submit to the California Public Utilities Commission or escalate to PG&E's Executive Offices, the media, or other channels. This MWC does not relate to safety, reliability, or maintenance.

MWC EL – Develop New Revenue – Includes costs for PG&E to provide Non-Tariffed Products and Services (NTP&S) offered to customers for a fee; the revenue generated offsets costs and net revenue in excess of expenses is credited back to customers resulting in a reduction to PG&E's revenue requirement. NTP&S includes completing streetlight light emitting diode turnkey work, securing agreements to place wireless telecommunications and fiber optics attachments on PG&E assets, and providing various other services based on secondary use of PG&E assets. This MWC does not relate to safety, reliability, or maintenance.

MWC EY – Change/Maintenance Used Electric Meter – Includes costs for preventive and corrective maintenance for electric meters, meter programming, meter network maintenance, electric meter accuracy testing, and the associated staff support necessary to effectively perform these activities. This MWC relates to safety, reliability, or maintenance because it supports the proper functioning of PG&E's electric metering infrastructure.

MWC EZ – Manage Var Cust Care Processes – Includes costs for customer satisfaction surveys, customer service, customer experience, program

implementation and outreach, rate education and outreach, rate tools, correspondence management and literature fulfillment, customer-facing check and letter generation and delivery, as well as tariff, risk, compliance, and privacy support. MWC EZ also includes activities primarily associated with SmartMeter™ Opt-Out Program oversight and supplemental utility meter engineering support. This MWC does not relate to safety, reliability, or maintenance.

MWC FA – Special Administrative & General/Other Costs-Budget

Department – Includes costs to provide above-the-line (ATL) advertising support for activities such as legally required bill inserts and to raise customer awareness on public purpose programs, pricing, products, service options, and other customer programs; below-the-line (BTL) costs are excluded from this report. This MWC does not relate to safety, reliability, or maintenance.

MWC FK – Retain and Grow Customers – Includes ATL work responding to economic development inquiries, providing detailed analyses of service options sought by customers, and providing detailed explanations of special rate components. MWC FK also includes BTL activities related to public power and Community Choice Aggregation issues; BTL costs are excluded from this report. This MWC does not relate to safety, reliability, or maintenance.

MWC GM – Manage Energy Efficiency-NonBA – Includes required safety and compliance work associated with Low Income Energy Efficiency direct installation measures, including Natural Gas Appliance Testing. This MWC also includes support required for Cooling Centers, electric vehicles (EV) policy guidance, new services benefiting EV customers, and minimal EV market readiness activities. This MWC relates to safety, reliability, or maintenance because it involves in-home appliance safety checks and support for Cooling Centers to support customer safety during hot summer days.

MWC HY – Change/Maint Used Gas Meters – Includes gas meter maintenance activities that do not result in new meter exchanges, including meter tests, minimal regulator maintenance, meter/module communication trouble-shooting, and meter/module repairs. This MWC relates to safety, reliability, or maintenance because it supports the proper functioning of PG&E's gas metering infrastructure.

MWC IG – Manage Var Bal Acct Processes – This MWC relates to safety, reliability, or maintenance because it includes incremental costs recorded to the Wildfire Mitigation Plan Memorandum Account (WMPMA) and the Wildfire Mitigation Balancing Account (WMBA) for wildfire risk mitigation work that is not otherwise recovered in PG&E's adopted revenue requirements.

MWC IS – Bill Customers – Includes expenses incurred to print, insert, and mail over 52 million customer bills annually; provide electronic bills to customers, bill complex commercial and industrial accounts (including a growing number of Net Energy Metering accounts); calculate and remit franchise fees and taxes; perform user acceptance testing of the customer billing system to ensure billing accuracy; and verify and/or resolve billing issues. MWC IS also covers streetlight inventory work and discontinuing service/investigations involving situations of metered commodity usage with no customer service agreement (e.g., broken lock). This MWC does not relate to safety, reliability, or maintenance.

MWC IT – Manage Credit – Includes expenses incurred to perform credit risk management for retail customers; delinquent account follow-ups and post account closure collections; open account collections on high dollar accounts; balance transfers for closed accounts, fraud verification; and costs related to notifying customers of past due amounts, as well as discontinuing and reconnecting service for non-payment. MWC IT also includes external collection agency costs. This MWC does not relate to safety, reliability, or maintenance.

MWC IU – Collect Revenue – Includes expenses incurred to process energy payments received through the United States mail and vendor transaction fees for online energy payments. MWC IU also includes expenses to manage customer payment inquiries and cash refunds. This MWC does not relate to safety, reliability, or maintenance.

MWC IV – Provide Account Services – Includes expenses for responding to customer inquiries (primarily for non-residential customers) regarding contracts, credit, billing and accounting, collections, and complaints; providing outage information; providing retail interconnection information; and responding to inquiries from customers served by third-party Energy Service Providers and Core Transport Agents. This MWC does not relate to safety, reliability, or maintenance.

MWC JV – Maintain Information Technology (IT) Apps and Infra – Includes costs for ongoing maintenance, operations, and repair for PG&E's IT applications, systems, and infrastructure. This MWC does not relate to safety, reliability, or maintenance.

MWC LB – Provide Advertising Services – Includes contract costs for ATL safety-related advertising campaigns such as educating the public on how to prepare for emergencies, how to stay safe during emergencies and around downed power lines and calling 811 before digging to avoid hitting utility lines; BTL costs are excluded from this report. This MWC relates to safety, reliability, or maintenance because it supports advertising campaigns to educate and inform the public on important safety issues.

MWC LI – Provide Corporate Communication – Includes costs to keep active and retired PG&E employees informed of policies and programs that impact PG&E's customers. Various communication channels such as e-mail, print publications, intranet sites, virtual meetings, and a mobile application are used to ensure that employees remain up to date on Company goals, leadership and organization updates, emerging issues, and customer programs and services. This MWC does not relate to safety, reliability, or maintenance.

MWC LJ – Provide Corporate Affairs Services – Includes costs to provide relevant and timely outreach to and respond to media inquiries on many aspects of PG&E's services, programs, and projects. This MWC does not relate to safety, reliability, or maintenance.

MWC OM – Operational Management – Includes labor and employee related costs to provide supervision and management support. MWC OM also includes costs incurred by the administrative staff working for the supervisors and managers. This MWC does not relate to safety, reliability, or maintenance.

MWC OS – Operational Support – Includes labor and employee related costs to provide services and support unrelated to supervision and management. This MWC does not relate to safety, reliability, or maintenance.

E. MWC Descriptions – Capital

MWC 01 – IT - Desktop Computers – Includes costs to replace computing equipment. This MWC does not relate to safety, reliability, or maintenance.

MWC 05 – Tools and Equipment – Includes tools and equipment used by field technicians and meter repair facilities to perform field metering and meter

repair activities. This MWC relates to safety, reliability, or maintenance because it supports the proper functioning of PG&E's electric metering infrastructure.

MWC 21 – Miscellaneous Capital – Includes costs to replace equipment used to insert and mail customer bills and notices. Also includes costs for Interactive Voice Response system and equipment. This MWC does not relate to safety, reliability, or maintenance.

MWC 25 – Install New Electric Meters – Includes new electric meter purchases for new customer growth, replacement of failed units, and the associated installation labor necessary to perform electric meter installations, exchanges, removals, and retirements. This MWC relates to safety, reliability, or maintenance because it supports the proper functioning of PG&E's electric metering infrastructure.

MWC 28 – EV – Station Infrastructure – Includes costs to provide EV charging infrastructure for PG&E-owned vehicles. This MWC does not relate to safety, reliability, or maintenance.

MWC 2F – Build IT Apps & Infra – Includes costs to design, develop, and enhance applications, systems, and IT solutions. This MWC does not relate to safety, reliability, or maintenance.

MWC 3M – Install/Repl Var Bal Acct – This MWC relates to safety, reliability, or maintenance because it includes incremental costs recorded to the WMBA for wildfire risk mitigation work that is not otherwise recovered in PG&E's adopted revenue requirements.

MWC 74 – Install New Gas Meters – Includes new gas meter purchases for new customer growth, replacement of failed units, and the associated installation labor necessary to perform gas meter installations, exchanges, removals, and retirements. This MWC relates to safety, reliability, or maintenance because it supports the proper functioning of PG&E's gas metering infrastructure.

1 F. Comparison by MWC for Non-Safety, Reliability, and Maintenance Work

TABLE 5-5 2023 RSAR 2023 GRC CYCLE CUSTOMER AND COMMUNICATIONS EXPENSE COMPARISON BY MWC FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

	А	В	C1	C2	C3	C4	C5	D	E	F	G	Н	I	J
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
1	O&M Expense	Customer and Communications	AB	Misc Expense	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 8	No	On-Going	Annual	0.0	0.6	0.6	100.0%
2	O&M Expense	Customer and Communications	AR	Read & Investigate Meters	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 6	No	On-Going	Annual	(176.0)	(1,060.8)	(884.8)	-502.8%
3	O&M Expense	Customer and Communications	DK	Manage Customer Inquiries	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 2, 4 & 5	No	On-Going	Annual	62,628.7	64,535.2	1,906.5	3.0%
4	O&M Expense	Customer and Communications	EL	Develop New Revenue	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 2	No	On-Going	Annual	41,051.8	39,477.0	(1,574.9)	-3.8%
5	O&M Expense O&M Expense	Customer and Communications Customer and Communications		Manage Var Cust Care Processes	Non-SRM Total (Non-RAMP) Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP) Non-SRM Total (Non-RAMP)	Ex 6, Ch 2, 3, 4, 5, 6, 7, 8 & 9 Ex 6, Ch 11	No No	On-Going	Annual Annual	48,080.1 0.0	60,885.6 85.7	12,805.5 85.7	26.6% 100.0%
7	O&M Expense	Customer and Communications		Spc A&G/Oth Csts-Bud Dept Retain & Grow Customers	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 2		On-Going	+	736.9	317.4		
8	· · · · · · · · · · · · · · · · · · ·	Customer and Communications	+	Bill Customers	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 6	No No	On-Going On-Going	Annual Annual	49,274.1	61,574.2	(419.4) 12,300.1	-56.9% 25.0%
9	· ·	Customer and Communications	ļ	Manage Credit	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 6	No	On-Going	Annual	14,834.1	22,518.9	7.684.8	51.8%
10	<u> </u>	Customer and Communications	IU	Collect Revenue	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 5 & 6	No	On-Going	Annual	12,739.4	7,776.5	(4,962.9)	-39.0%
11	· ·	Customer and Communications		Provide Account Services	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 2	No	On-Going	Annual	17,757.8	15,260.3	(2,497.5)	-14.1%
12	· '	Customer and Communications		Maintain IT Apps & Infra	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 10	No	On-Going	Annual	19,323.2	10,527.5	(8,795.7)	-45.5%
13	•	Customer and Communications	11	Prov Corporate Communication	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 11	No	On-Going	Annual	0.0	2,233.0	2,233.0	100.0%
14	O&M Expense	Customer and Communications	LJ	Prov Corp Affairs Svcs	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 11	No	On-Going	Annual	14,283.2	5,362.6	(8,920.6)	-62.5%
15	· ·	Customer and Communications		Operational Management	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 1A & 8	No	On-Going	Annual	11,489.8	4,773.2	(6,716.6)	-58.5%
16	•	Customer and Communications	+	Operational Support	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 8	No	On-Going	Annual	0.0	221.4	221.4	100.0%

TABLE 5-6

2023 RSAR 2023 GRC CYCLE CUSTOMER AND COMMUNICATIONS CAPITAL COMPARISON BY MWC FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

	А	В	C1	C2	C3	C4	C5	D	Е	F	G	Н	I	J
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
1	Capital	Customer and Communications	01	IT - Desktop Computers	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 11	No	On-Going	Annual	0.0	98.5	98.5	100.0%
2	Capital	Customer and Communications	21	Misc Capital	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 5 & 6	No	On-Going	Annual	110.2	8,542.6	8,432.4	7649.2%
3	Capital	Customer and Communications	28	EV - Station Infrastructure	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 2	No	On-Going	Annual	0.0	14,866.0	14,866.0	100.0%
4	Capital	Customer and Communications	2F	Build IT Apps & Infra	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 6, Ch 10	No	On-Going	Annual	30,095.0	58,163.0	28,068.0	93.3%

PACIFIC GAS AND ELECTRIC COMPANY SECTION 6 SHARED SERVICES/INFORMATION TECHNOLOGY IMPUTED ADOPTED VS. RECORDED COMPARISON

PACIFIC GAS AND ELECTRIC COMPANY SECTION 6 SHARED SERVICES/INFORMATION TECHNOLOGY IMPUTED ADOPTED VS. RECORDED COMPARISON

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PACIFIC GAS AND ELECTRIC COMPANY SECTION 6 SHARED SERVICES/INFORMATION TECHNOLOGY IMPUTED ADOPTED VS. RECORDED COMPARISON

A. Introduction

 This section includes the following information for the Shared Services and Information Technology (IT) functional area: a comparison of the total 2023 imputed adopted spend to the actual spend as well as the required data points per program as defined and required in Decision (D.) 22-10-002. This section also includes, for programs that are related to safety, reliability, or maintenance, the Major Work Category (MWC)/Maintenance Activity Type (MAT) Code descriptions, imputed adopted vs. actual cost comparison details and variance explanations. As required by D.19-04-020, the MWC/MAT Code descriptions include a discussion of how each program/project relates to safety, reliability, or maintenance.

D.22-01-002, Appendix A and B.

² Attachment 2, p. 9.

1 B. Comparison Summary Tables

TABLE 6-1 2023 RSAR 2023 GRC CYCLE SHARED SERVICES/IT EXPENSE COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	O&M Expense	Shared Services	Misc Expense (a)	AB	314,977.3	320,580.5	5,603.2	1.8%
2	O&M Expense	Shared Services	Manage Environmental Oper	AK	10,106.0	5,667.9	(4,438.1)	-43.9%
3	O&M Expense	Shared Services	Habitat and Species Protection	AY	343.5	480.3	136.8	39.8%
4	O&M Expense	Shared Services	Maint Buildings	BI	6,005.6	690.6	(5,315.1)	-88.5%
5	O&M Expense	Shared Services	Manage DCPP Business	BP	1,324.9	464.7	(860.2)	-64.9%
6	O&M Expense	Shared Services	Mnge Waste Disp & Transp	CR	2,368.0	2,507.1	139.1	5.9%
7	O&M Expense	Shared Services	Manage Property & Bldgs ^(b)	EP	97,560.1	198,810.3	101,250.2	103.8%
8	O&M Expense	Shared Services	Implement Environment Projects	ES	705.7	623.3	(82.4)	-11.7%
9	O&M Expense	Shared Services	Safety Engineering & OSHA Cmpl	FL	18,980.1	4,614.2	(14,365.9)	-75.7%
10	O&M Expense	Shared Services	Manage Var Bal Acct Processes	IG	1,214.3	2,486.5	1,272.2	104.8%
11	O&M Expense	Shared Services	Manage Land Services	JE	4,504.3	3,708.8	(795.5)	-17.7%
12	O&M Expense	Shared Services	Implement RealEstate Strategy	JH	6,780.8	8,411.7	1,630.9	24.1%
13	O&M Expense	Shared Services	Manage Environ Remed (Earning)	JK	6,087.6	3,919.0	(2,168.6)	-35.6%
14	O&M Expense	Shared Services	Procure Materials & Services (c)	JL	17,735.2	28,750.1	11,014.9	62.1%
15	O&M Expense	Shared Services	Maintain IT Apps & Infra	JV	37,881.4	33,331.6	(4,549.9)	-12.0%
16	O&M Expense	Shared Services	Prov Human Resource Svcs	KX	7,614.0	8,394.0	779.9	10.2%
17	O&M Expense	Shared Services	Prov Regulation Svcs	KY	1,496.8	1,396.9	(99.9)	-6.7%
18	O&M Expense	Shared Services	Prov Risk/Security Svcs	KZ	32,865.8	33,191.8	326.0	1.0%
19	O&M Expense	Shared Services	Corp A&G Allocation - ATL	LO	0.0	283.5	283.5	100.0%
20	O&M Expense	Shared Services	Operational Management	OM	541.1	1,050.7	509.7	94.2%
21	O&M Expense	Shared Services	Operational Support	OS	11,771.1	30,938.7	19,167.6	162.8%
22	O&M Expense	Shared Services	Shared Services Sub-Total	•	580,863.7	690,302.2	109,438.5	18.8%
23	O&M Expense	Shared Services	Fleet Capitalization	ZC	(162,516.4)	(178,673.9)	(16, 157.5)	9.9%
24	O&M Expense	Shared Services	Building Services Capitalization	ZC	(63,714.0)	(67,971.2)	(4,257.2)	6.7%
25	O&M Expense	Shared Services	Shared Services Total	•	354,633.3	443,657.1	89,023.8	25.1%
26	O&M Expense	IT	Misc Expense	AB	0.0	121.0	121.0	100.0%
27	O&M Expense	IT	Maintain IT Apps & Infra	JV	386,709.8	336.615.1	(50,094.6)	-13.0%
28	O&M Expense	IT	Operational Management	OM	1,435.7	528.7	(907.0)	-63.2%
29	O&M Expense	IT	Operational Support	OS	0.0	4,383.2	4,383.2	100.0%
30	O&M Expense	IT	Information Technology Sub-Total		388.145.4	341,648.0	(46,497.4)	-12.0%
31	O&M Expense	IT	End User Services Capitalization	ZC	(37,434.2)	(100,143.4)	(62,709.1)	167.5%
32	O&M Expense	IT	Information Technology Total	-	350,711.2	241,504.6	(109,206.5)	-31.1%
33	·	Shared Services/IT	Shared Services/Information Technolo	gy Total	705,344.5	685,161.8	(20,182.8)	-2.9%

⁽a) MWC AB includes recorded costs from the Transportation and Aviation Services organization for wildfire heavy-lift helicopter support recorded in the WMBA.

(b) MWC EP includes recorded costs from the Corporate Real Estate Support Services organization for facilities efforts related to the sale of PG&E's San Francisco General Office recorded in the General Office Sale Memorandum Account (GOSMA).

⁽c) MWC JL includes recorded costs from the Sourcing department for wildfire contract support recorded in both the WMPMA and the WMBA.

TABLE 6-2 2023 RSAR 2023 GRC CYCLE SHARED SERVICES/IT CAPITAL COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

				1	1		1	T
	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	Capital	Shared Services	Fleet / Auto Equip	04	113,116.4	102,820.1	(10,296.3)	-9.1%
2	Capital	Shared Services	Tools & Equipment	05	2,495.5	4,931.8	2,436.3	97.6%
3	Capital	Shared Services	Implement Environment Projects	12	8,066.1	11,598.0	3,531.9	43.8%
4	Capital	Shared Services	Misc Capital	21	654.2	5,613.2	4,958.9	758.0%
5	Capital	Shared Services	Maintain Buildings ^(a)	22	41,008.6	59,406.9	18,398.3	44.9%
6	Capital	Shared Services	Implement RealEstate Strategy (a), b)	23	99,788.3	68,462.1	(31,326.1)	-31.4%
7	Capital	Shared Services	Build IT Apps & Infra	2F	37,684.9	37,211.9	(473.0)	-1.3%
8	Capital	Shared Services	Security Install/Replace	3N	14,690.3	14,767.0	76.7	0.5%
9	Capital	Shared Services	Shared Services Total	•	317,504.4	304,811.0	(12,693.3)	-4.0%
10	Capital	IT	Build IT Apps & Infra	2F	286,508.8	299,058.5	12,549.7	4.4%
11	Capital	IT	Information Technology Total		286,508.8	299,058.5	12,549.7	4.4%
12	Capital	Shared Services/IT	Shared Services/Information Technolo Total	gy	604,013.2	603,869.5	(143.6)	-0.02%

⁽a) MWC 22 and MWC 23 include recorded costs from the Corporate Real Estate Support Services organization for facilities efforts related to the sale of PG&E's San Francisco General Office recorded in the GOSMA.

⁽b) MWC 23 includes recorded costs from the Corporate Real Estate Support Services organization for the Emergency Generation Enhancement wildfire program recorded in the WMPMA.

1 C. Comparison by MWC for Safety, Reliability, and Maintenance Work Tables

TABLE 6-3
2023 RSAR
2023 GRC CYCLE SHARED SERVICES/IT EXPENSE COMPARISON BY MWC FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

	А	В	C1	C2	C3	C4	C5	D	E	F	G	Н	ı	J	K1	K2	L	M1	M2	M3	N	0
	Type (O&M		(2)			RAMP Mitigation and/or	2023 GRC		Program /	Program /	2023 Imputed	2023	Difference	Spending Percent	Spending Variance	Percentage Variance	2023 Cost		Forecast			
Line No	Expense of Capital)	r Functional Area	MWC (a)	MWC Name	RAMP Risk Name	Control Name	Testimony Reference	up (Yes/No)	Project Life (years)	Project Year		Actual Costs	for 2023 (\$) (H-G)	Variance for 2023 (%) ((H-G)/G*100)	Explanation Required (Y/N)	Explanation Required (Y/N)	Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
	O&M				SRM Total (Non-		Ex 7, Ch 1 Ex 7, Ch 2															
1	Expense	Shared Services	AB	Misc Expense	RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 7	No	On-going	Annual	17,179.9	17,249.7	69.8	0.4%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
2	O&M Expense	Shared Services	AB	Misc Expense	Employee Safety Incident (EMPSI)	Corrective Action Program (EMPSI-PRGB)	Ex 7, Ch 1	Yes	On-going	Annual	0.0	3,553.6	3,553.6	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	O&M Expense	Shared Services	AB	Misc Expense	Employee Safety Incident (EMPSI)	Employee Health & Safety Guidance, Training & Oversight (EMPSI-PRGA)	Ex 7, Ch 1	Yes	On-going	Annual	0.0	4,110.0	4,110.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	O&M Expense	Shared Services	AB	Misc Expense	Employee Safety Incident (EMPSI)	Enterprise Safety Management System (EMPSI-M01B)	Ex 7, Ch 1	Yes	On-going	Annual	0.0	678.0	678.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M				Employee Safety	PG&E Safety Excellence Management System Implementation (EMPSI-																
5	Expense	Shared Services	AB	Misc Expense	Incident (EMPSI)	PRGF)	Ex 7, Ch 1	Yes	On-going	Annual	0.0	662.0	662.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	O&M Expense	Shared Services	AB	Misc Expense	Motor Vehicle Safety Incident	Transportation Safety (PRGA)	Ex 7, Ch 1	Yes	On-going	Annual	0.0	3,150.0	3,150.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	O&M Expense	Shared Services	AB	Misc Expense	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 1 Ex 7, Ch 2 Ex 7, Ch 7	Yes	On-going	Annual	0.0	5,096.1	5,096.1	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	O&M Expense	Shared Services	AK	Manage Environmental Oper	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 6	No	On-going	Annual	0.0	519.6	519.6	100.0%	NO	NO	Below threshold variance.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
9	O&M Expense	Shared Services	ВІ	Maint Buildings	SRM Total	SRM Total	Ex 7, Ch 5	No	On-going	Annual	6,005.6	690.6	(5,315.1)	-88.5%	NO	YES	Program expenses were below imputed regulatory values due to the work being partially forecast and adopted in MWC BI but primarily executed in MWC EP. The decision to fault and execute most of the work in MWC EP was made after the GRC was filed. The net overrun to imputed is discussed in MWC EP.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC. The purpose of this program is to addresses both proactive and reactive repairs and maintenance of sicilities to optimize the life of facilities, address safety issues, and improve operations and reliability of facility assets and related equipment.
10	O&M Expense	Shared Services	ВІ	Maint Buildings	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 5	Yes		Annual	0.0	(214.5)	(214.5)	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	O&M Expense	Shared Services		Maint Buildings	Real Estate and Facilities Failure (REFFL)	Service Center Optimization (REFFL-C002)		Yes	On-going On-going	Annual	0.0	413.8	413.8	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A
12	O&M Expense	Shared Services		Maint Buildings	Real Estate and Facilities Failure (REFFL)	Facilities Mgmt and Prevent Maint Prgm (REFFL-C004)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	167.6	167.6	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	O&M Expense	Shared Services	BI	Maint Buildings	Real Estate and Facilities Failure (REFFL)	Renovate / Relocate Facilities Other than SFGO (REFFL-M006)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	323.6	323.6	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	O&M Expense	Shared Services	CR	Mnge Waste Disp & Transp	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 6	No	On-going	Annual	2,368.0	2,472.6	104.7	4.4%	NO	NO	Below threshold variance.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
15	O&M Expense	Shared Services	EP	Manage Property & Bldgs		SRM Total	Ex 7, Ch 5	No	On-going	Annual	97,560.1	120,592.8	23,032.6	23.6%	YES	YES	Program expenses exceeded imputed regulatory values due to required facilities maintenance work; unplanned increases in facilities rent; and increases in planned headcount to decrease the reliance on OT/DT and better align resources with critical work.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC. The purpose of this program is to address operations and maintenance of facilities and shared conference centers to optimize the life of facilities, address safety issues, and improve operations and reliability of facility assets and related equipment.
16	O&M Expense	Shared Services	EP	Manage Property & Bldgs	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	119,954.7	119,954.7	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	O&M Expense	Shared Services	EP	Manage Property & Bldgs	Real Estate and Facilities Failure (REFFL)	Renovate / Relocate Facilities Other than SFGO (REFFL-M006)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	638.1	638.1	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	O&M Expense	Shared Services	FL	Safety Engineering & OSHA Cmpl	SRM Total	SRM Total	Ex 7, Ch 1	No	On-going	Annual	18,980.1	4,614.2	(14,365.9)	-75.7%	YES	YES	Program expense were below imputed regulatory values due to the work being forecast and adopted in MWC FL as a part of the 2023 GRC Final Decision, but executed in MWC oS. The decision to secute the forecast with a different MWC was made after the 2023 GRC was submitted. This program primarily represents the development and deployment of the Regional Safety Program and is in alignment with the safety commitments made following the Plan of Reorganization.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC. The purpose of this program is to provide various safety initiatives that address both employees and contractors. The initiatives support mitigations for Employees Safety Incident, Contractor Safety Incident, and Motor Vehicle Safety Incident risks
19	O&M Expense	Shared Services	FL	Safety Engineering & OSHA Cmpl	Contractor Safety Incident (CNTSI)	Contractor Safety Oversight and Compliance (PRGB)	Ex 7, Ch 1	Yes	On-going	Annual	0.0	1,200.0	1,200.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	O&M Expense	Shared Services	FL	Safety Engineering & OSHA Cmpl	Contractor Safety Incident (CNTSI)	Contractor Pre-Qualification Program (PRGA)	Ex 7, Ch 1	Yes	On-going	Annual	0.0	125.0	125.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21	O&M Expense	Shared Services	FL	Safety Engineering & OSHA Cmpl	Employee Safety Incident (EMPSI)	Employee Health & Safety Guidance, Training & Oversight (EMPSI-PRGA)	Ex 7, Ch 1	Yes	On-going	Annual	0.0	419.8	419.8	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22	O&M Expense	Shared Services	FL	Safety Engineering & OSHA Cmpl	Employee Safety Incident (EMPSI)	SIF Prevention Program and Field Oversight (PRGC)	Ex 7, Ch 1	Yes	On-going	Annual	0.0	2,304.4	2,304.4	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
23	O&M Expense	Shared Services	FL	Safety Engineering & OSHA Cmpl	Motor Vehicle Safety Incident (MVSI)	Transportation Safety (PRGA)	Ex 7, Ch 1	Yes	On-going	Annual	0.0	565.0	565.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
24	O&M Expense	Shared Services		Manage Var Bal Acct Processes	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 5	No	On-going	Annual	0.0	1,256.0	1,256.0	100.0%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	
25	O&M Expense	Shared Services	JH	Implement RealEstate Strategy	SRM Total	SRM Total	Ex 7 , Ch 5	No	On-going	Annual	6,780.8	8,411.7	1,630.9	24.1%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A

TABLE 6-3 2023 RSAR

2023 GRC CYCLE SHARED SERVICES/IT EXPENSE COMPARISON BY MWC FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS) (CONTINUED)

			C1 C2	сз	C4	C5	D	-	-	G				K1	K2		M1	M2	M3	N	0
	Type	-	C1 C2	ω	C4				r	2023	0000	p://	Spending	Spending	Percentage	2023	IVII	Forecast	IVIO	IN	0
Line No	(O&M Expense or	Functional Area	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony		Program / Project Life	Program / Project Year	Imputed Adopted		Difference for 2023 (\$)		Variance Explanation	Variance Explanation	Cost Variance	Scope	Schedule	Budget	Status	Completion Status Statement
	Capital)					Reference	(Yes/No)	(years)	,	Costs	Costs	(H-G)	2023 (%) ((H-G)/G*100)	Required (Y/N)	Required (Y/N)	Explanation	(U, O, or T)				
				Real Estate and	Facilities Mgmt and																
26	O&M Expense	Shared Services	Implement RealEstate JH Strategy	Facilities Failure (REFFL)	Prevent Maint Prgm (REFFL-C004)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	1,566.7	1,566.7	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M		Implement RealEstate	Real Estate and Facilities Failure	Renovate / Relocate Facilities Other than SFGO																
27	Expense	Shared Services	JH Strategy	(REFFL)		Ex 7, Ch 5	Yes	On-going	Annual	0.0	791.6	791.6	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
28	Expense	Shared Services	Implement RealEstate JH Strategy	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	6,053.4	6,053.4	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29	O&M Expense	Shared Services	Procure Materials & JL Services	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 4	No	On-going	Annual	0.0	3,930.5	3,930.5	100.0%	NO	NO	Below threshold variance.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	O&M																				
30	Expense	Shared Services	JV Maintain IT Apps & Infra	SRM Total		Ex 7, Ch 9	No	On-going	Annual	32,806.3	32,417.8	(388.5)	-1.2%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
	O&M			Cyber Security	Security Intelligence and Operations Center (CYBER-																
31	Expense O&M	Shared Services	JV Maintain IT Apps & Infra	Incident (CYBER) Cyber Security	C001) Cybersecurity Risk and	Ex 7, Ch 9	Yes	On-going	Annual	0.0	5,261.4	5,261.4	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
32	Expense	Shared Services	JV Maintain IT Apps & Infra	Incident (CYBER)	Strategy (CYBER-C002)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	9,228.7	9,228.7	100.0%	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
33	O&M Expense	Shared Services	JV Maintain IT Apps & Infra	Cyber Security Incident (CYBER)	Cybersecurity Services (CYBER-C003)	Ex 7. Ch 9	Yes	On-going	Annual	0.0	13,325.5	13,325.5	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M			Cyber Security	Communications (CYBER-	,															
34	Expense	Shared Services	JV Maintain IT Apps & Infra		C004)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	(28.0)	(28.0)	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35	O&M Expense	Shared Services	JV Maintain IT Apps & Infra	Cyber Security Incident (CYBER)	Identify (CYBER-M001)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	153.6	153.6	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M Expense		n/ Maintain IT Anna 9 Infra	Cyber Security Incident (CYBER)	Protect (CYBER-M002)	Ex 7, Ch 9					0.000.0	0.000.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
36	O&M	Shared Services	JV Maintain IT Apps & Infra	Cyber Security	Plotect (CTBER-W002)	EX 7, CI19	Yes	On-going	Annual	0.0	3,628.0	3,628.0	100.0%	NA	N/A	IWA	N/A	INA	INVA	N/A	N/A
37	Expense	Shared Services	JV Maintain IT Apps & Infra	Incident (CYBER)	Respond (CYBER-M004)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	32.2	32.2	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
38	O&M Expense	Shared Services	JV Maintain IT Apps & Infra	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 9	No	On-going	Annual	0.0	816.4	816.4	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
- 00		Onarea earnees	00	, ,	,		140	Origing	7 ti ilida	0.0	010.4	010.4	100.070								
39	O&M Expense	Shared Services	Prov Human Resource KX Svcs	SRM Total	SRM Total	Ex 7 , Ch 1	No	On-going	Annual	7,608.9	8,375.6	766.7	10.1%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
39	LAPETINE	Shared Services	KA SIUS	Sittii Totai		LX 7 , GITT	INU	On-going	Affilial	7,000.9	0,375.6	700.7	10.1%	140	140	below variance uneshold.	Oll-Taiget	Oll-Talget	Oirlaiget	Proceeding as Planned	IVA
	O&M		Prov Human Resource	Employee Safety	Employee Health & Wellness Programs																
40	Expense O&M	Shared Services	KX Svcs	Incident (EMPSI)	(EMPSI-PRGD)	Ex 7, Ch 1	No	On-going	Annual	0.0	8,375.6	8,375.6	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
41	Expense O&M	Shared Services	KZ Prov Risk/Security Svcs	SRM Total Physical Attack	SRM Total Physical Security (PHYSA-	Ex 7, Ch 9	No	On-going	Annual	24,715.4	23,453.5	(1,261.9)	-5.1%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
42	Expense	Shared Services	KZ Prov Risk/Security Svcs	(PHYSA)	C001)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	17,461.3	17,461.3	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M			Physical Attack	Security Asset and																
43	Expense	Shared Services	KZ Prov Risk/Security Svcs	(PHYSA)	Technology (PHYSA-C002)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	1,336.3	1,336.3	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M			Physical Attack	Corporate Security Control																
44	Expense O&M	Shared Services	KZ Prov Risk/Security Svcs	(PHYSA) Physical Attack	Center (PHYSA-C003) Investigation and Insider	Ex 7, Ch 9	Yes	On-going	Annual	0.0	1,395.0	1,395.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
45	Expense	Shared Services	KZ Prov Risk/Security Svcs	(PHYSA)	Threats (PHYSA-C004)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	1,657.2	1,657.2	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M			Physical Attack																	
46	Expense	Shared Services	KZ Prov Risk/Security Svcs	(PHYSA)	Prevent (PHYSA-M001)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	1,442.2	1,442.2	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M			Physical Attack																	
47	Expense	Shared Services	KZ Prov Risk/Security Svcs	(PHYSA)	Detect (PHYSA-M002)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	161.6	161.6	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
																Program expenses exceeded imputed regulatory values					
																due to the work being forecast and adopted in MWC FL as a part of the 2023 GRC Final Decision, but executed					
																in MWC OS. The decision to execute the forecast work in a different MWC was made after the 2023 GRC was					This program's work is ongoing and will continue in PG&E's 2023
																submitted. This program primarily represents the development and deployment of the Regional Safety					GRC. The purpose of this program is to provide various safety initiatives that address both employees and contractors. The
48	O&M Expense	Shared Services	OS Operations Support	SRM Total	SRM Total	Ex 7 , Ch 1	No	On-going	Annual	0.0	12 485 6	12,485.6	100.0%	YES	YES	Program and is in alignment with the safety	On-Target	On-Target	On-Target	Proceeding as Planned	initiatives support mitigations for Employees Safety Incident, Contractor Safety Incident, and Motor Vehicle Safety Incident risks.
-40		Onarea econoce	00				140	Origing	7 ti ilida	0.0	12,400.0	12,400.0	100.070			9					
					CIC Decimation Deciman																
					SIF Prevention Program and Field Oversight (PRGC) includes												1				
				L	contract partner workforce																
49	O&M Expense	Shared Services	OS Operations Support	Employee Safety Incident (EMPSI)	field safety observations and compliance	Ex 7 , Ch 1	No	On-going	Annual	0.0	12,485.6	12,485.6	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M			SRM Total (Non-																	
50		Shared Services	ZC Corporate Items	RAMP)	SRM Total (Non-RAMP)	Ex 7 , Ch 5	No	On-going	Annual	(63,714.0)	(67,971.2)	(4,257.2)	6.7%	NO	NO	Below variance threshold.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
																Program expenses exceeded imputed regulatory values					
																due to emergent plan and analyze costs for the Propel program which will upgrade, advance and optimize					This program's work is ongoing and will continue in PG&E's 2023
																PG&E's SAP system and related processes; various technology solutions in support of mitigating Network					GRC. The purpose of this program is to address the ongoing operations and maintenance of software and hardware technology
	0.14															core assets; and incremental operations and					assets and supporting systems, a modest percentage of the
51	O&M Expense	п	JV Maintain IT Apps & Infra	SRM Total	SRM Total	Ex 7, Ch 8	No	On-going	Annual	0.0	38,841.5	38,841.5	100.0%	YES	YES	maintenance costs in support of increased public cloud usage.	On-Target	On-Target	On-Target	Proceeding as Planned	program will focus spend on supporting capital mitigation investments to improve the IT Asset Failure risk.
					Lifecycle Obsolete and Low																
52	O&M Expense	п	JV Maintain IT Apps & Infra	IT Asset Failure (ITAFL)	Health #Assets (ITAFL- M004)	Ex 7, Ch 8	Yes	On-going	Annual	0.0	2,262.5	2,262.5	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O&M			IT Asset Failure	Multi-Faceted Mitigations																
53	Expense	п	JV Maintain IT Apps & Infra	(ITAFL)	(ITAFL-M005)	Ex 7, Ch 8	Yes	On-going	Annual	0.0	2,950.8	2,950.8	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ļ	O&M		Maintain IT Anna 9 5 5	SRM Total (Non-	SRM Total (Non-RAMP)	Ev 7 Ch o	V	0			22 600 0	22 600 0	400.007	N/A	N/A	N/A	NI/A	NI/A	N/A	N/A	N/A
	Expense ring MWCs have	III e both SRM and non-S	JV Maintain IT Apps & Infra RM spend: AB, AK, CR, EP, IG, JL,		SKM Iotal (Non-RAMP)	Ex 7, Ch 8	Yes	On-going	Annual	0.0	33,628.2	33,628.2	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TABLE 6-4 2023 RSAR 2023 GRC CYCLE SHARED SERVICES/IT CAPITAL COMPARISON BY MWC FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

	А	В	C1	C2	C3	C4	C5	D	E	F	G	Н	ı	J	K1	K2	L	M1	M2	M3	N	0
	Туре						2023 GRC		Program /		2023	2023	Difference for	Spending Percent	Spending Variance	Percentage Variance	2023		Forecast			
Line No	Expense or	Functional Area	MWC ^(a)	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	Testimony	RAMP Roll- up (Yes/No)	Project Life	Program / Project Year		Actual Costs	2023 (\$) (H-G)	Variance for 2023 (%)	Explanation Required	Explanation Required	Variance	Scope	Schedule	Budget	Status	Completion Status Statement
	Capital)						T.C.IC.I.C.I		(Jours)		Costs	0000	(0)	((H-G)/G*100)	(Y/N)	(Y/N)	Explanation	(U, O, or T)		(U, O, or T)		
1	Capital	Shared Services	22	Maintain Buildings	SRM Total	SRM Total	Ex 7, Ch 5	No	On-going On-going	Annual	41,008.6	59.406.9	18,398.3	44.9%	NO.	YES	Program expenditures exceeded imputed regulatory values due to work forecast and adopted across both MWC 22 and MWC 23 but executed in MWC 22 more than in MWC 23. This included executing new priority projects and catching-up on projects that were delayed from 2022 as a result of reprioritization. These projects were specifically focused on facility optimization and required maintenance and renovation. Examples of such projects are facility asset lifecycle replacements in the Stockton Material Center, Lakeport Sen/ce Center, Monterey Sen/ce Center, Vacaville Sen/ce Center and Richmond Sen/de Center and Richmond Sen/de Richm	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC. The purpose of this program is to focus on the construction and optimization of facilities, addressing facility deficiencies, and replacing facility components. The majority of these investments are in support of reducing the Real Estate and Facilities Failure in Sellives from the sell-state and Facilities Failure in Sellives from the Sellives from
					Real Estate and Facilities Failure	Regional Optimization	,				,,,,,,	.,									J	
2	Capital	Shared Services	22	Maintain Buildings	(REFFL) Real Estate and	(REFFL-C001) Facilities Mgmt and	Ex 7, Ch 5	Yes	On-going	Annual	0.0	2,730.3	2,730.3	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	Capital	Shared Services	22	Maintain Buildings	Facilities Failure (REFFL)	Prevent Maint Prgm (REFFL-C004)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	41,175.8	41,175.8	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					Real Estate and Facilities Failure	Renovate / Relocate Facilities Other than SFGO																
4	Capital	Shared Services	22	Maintain Buildings	(REFFL) Real Estate and	(REFFL-M006)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	6,258.4	6,258.4	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	Capital	Shared Services	22	Maintain Buildings	Facilities Failure (REFFL)	Service Center Optimization (REFFL-C002	Ex 7, Ch 5	Yes	On-going	Annual	0.0	8,746.9	8,746.9	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Capital	Shared Services	22	Maintain Buildings	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	495.5	495.5	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	Capital	Shared Services	23	Implement RealEstate Strategy	SRM Total	SRM Total	Ex 7, Ch 5	No	On-going	Annual	99,788.3	68,462.1	(31,326.1)	-31.4%	YES	YES	Program expenditures were below imputed regulatory values due to work forecast and adopted across both MWC 22 and MWC 23 but executed in MWC 22 more than in MWC 23. Other drivers include a credit received in the General Office Sale Memorandum Account (GOSMA) for re-scheduled capital work which was partially offset by ongoing efforts to support the completion of the Emergency Generation Enhancement Wildfermitigation program.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC. The purpose of this program is to focus on the purchase and acquistline of facilities, associated land, and required infrastructure to operationalize new facilities. In addition, this program develops and deploys the strategy to optimize the real estate portfolio at the company level. The majority of these investments are in support of reducing the Real Estate and Facilities Failure risk.
				Implement RealEstate	Real Estate and Facilities Failure	Regional Optimization																
8	Capital	Shared Services	23		(REFFL) Real Estate and	(REFFL-C001) Facilities Mgmt and	Ex 7, Ch 5	Yes	On-going	Annual	0.0	62,494.5	62,494.5	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9	Capital	Shared Services	23	Implement RealEstate Strategy	Facilities Failure (REFFL)	Prevent Maint Prgm (REFFL-C004)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	2,185.2	2,185.2	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	Capital	Shared Services	23	Implement RealEstate Strategy	Real Estate and Facilities Failure (REFFL)	Renovate / Relocate Facilities Other than SFGO (REFFL-M006)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	10,174.9	10,174.9	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA
11	Capital	Shared Services	23	Implement RealEstate Strategy	Real Estate and Facilities Failure (REFFL)	Service Center Optimization (REFFL-C002	Ex 7. Ch 5	Yes	On-going	Annual	0.0	17,050.0	17,050.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Implement RealEstate	Real Estate and Facilities Failure	Security System Hardening							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
12	Capital	Shared Services	23	Strategy Implement RealEstate	(REFFL) SRM Total (Non-	(REFFL-C008)	Ex 7, Ch 5	Yes	On-going	Annual		6,123.0	6,123.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	Capital	Shared Services	23	Strategy	RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 5	Yes	On-going	Annual	0.0	(29,565.6)	(29,565.6)	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	Capital	Shared Services	2F	Build IT Apps & Infra	SRM Total	SRM Total	Ex 7, Ch 9	No	On-going	Annual	36,141.6	36,316.2	174.6	0.5%	NO	NO	Below threshold variance.	On-Target	On-Target	On-Target	Proceeding as Planned	N/A
15	Capital	Shared Services	2F	Build IT Apps & Infra	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 1 Ex 7, Ch 7	No	On-going	Annual	0.0	4,891.2	4,891.2	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	Capital	Shared Services	2F	Build IT Apps & Infra	Cyber Security Incident (CYBER)	Identify (CYBER-M001)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	1,509.8	1,509.8	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	Capital	Shared Services	2F	Build IT Apps & Infra	Cyber Security Incident (CYBER)	Protect (CYBER-M002)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	24,702.8	24,702.8	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	Capital	Shared Services	2F	Build IT Apps & Infra	Cyber Security Incident (CYBER)	Detect (CYBER-M003)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	1,534.0	1,534.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					Cyber Security																	
19 20	Capital Capital	Shared Services Shared Services	2F 3N	Build IT Apps & Infra Security Install/Replace	Incident (CYBER) SRM Total	Respond (CYBER-M004) SRM Total	Ex 7, Ch 9 Ex 7, Ch 9	Yes No	On-going On-going	Annual Annual	0.0 14,690.3	3,678.4 11,809.0	3,678.4 (2,881.4)	100.0% -19.6%	N/A NO	N/A NO	N/A Below threshold variance.	N/A On-Target	N/A On-Target	N/A On-Target	N/A Proceeding as Planned	N/A N/A
21	Capital	Shared Services	3N	Security Install/Replace	Physical Attack (PHYSA)	Prevent (PHYSA-M001)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	8,313.6	8,313.6	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22	Capital	Shared Services	3N	Security Install/Replace	Physical Attack (PHYSA)	Detect (PHYSA-M002)	Ex 7, Ch 9	Yes	On-going	Annual	0.0	3,495.3	3,495.3	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
23	Capital	п	2F	Build IT Apps & Infra	SRM Total	SRM Total	Ex 7, Ch 8	No	On-going On-going	Annual	286,508.8	245,521.0	(40,987.8)	-14.3%	YES	NO	Program expenditures were below imputed regulatory values due to the fact that the imputed value for this program encompasses both SRM and non-SRM investments. The majority of the program shows spend on mitigation investments for the IT Asset Failure risk. An additional 10% represents Energy System Engineering & Work Management and Energy System Planning & Asset Management technology solutions that enable our field workers with better tools to collect/analyze data, provide insights, and support our customers.	On-Target	On-Target	On-Target	Proceeding as Planned	This program's work is ongoing and will continue in PG&E's 2023 GRC. The purpose of this program is to address the ongoing development and deployment of software and hardware technology solutions, the majority of the program will focus spend on mitigation investments to improve the IT Asset Failure risk.
					IT Asset Failure	Lifecycle Obsolete and Low Health #Assets (ITAFL-																
24	Capital	IT	2F	Build IT Apps & Infra	(ITAFL) IT Asset Failure	M004) Multi-Faceted Mitigations	Ex 7, Ch 8	Yes	On-going	Annual	0.0	86,042.0	86,042.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
25	Capital	ІТ	2F	Build IT Apps & Infra	(ITAFL)	(ITAFL-M005)	Ex 7, Ch 8	Yes	On-going	Annual	0.0	61,471.0	61,471.0	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
26	Capital	IT	2F	Build IT Apps & Infra	SRM Total (Non- RAMP)	SRM Total (Non-RAMP)	Ex 7, Ch 8	Yes	On-going	Annual	0.0	98,007.7	98,007.7	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

26 Capital IT 2F Build IT Apps & Infra
(a) The following MWCs have both SRM and non-SRM spend: 2F, 3N.

D. MWC Descriptions - Expense

MWC AB – Support – Includes costs associated with climate protection and other environmental leadership initiatives as well as Fleet Fuel and Rental costs in Transportation Services. MWC AB also includes standard cost variances for Shared Services departments that charge out their costs to other organizations and miscellaneous support costs. A portion of the MWC also addresses mitigation programs that relate to the Employee Safety Incident risk as well. In addition, this MWC addresses costs related to Pacific Gas and Electric Company's (PG&E or the Company) heavy-lift helicopters that provide both service restoration and California Department of Forestry and Fire Protection use for emergency response during fire season. This program relates to safety, reliability, and maintenance as it supports wildfire mitigations by improving wildfire response capabilities and potentially reducing wildfire consequences to PG&E and public infrastructure; and it includes costs for the Enterprise Corrective Action program that supports controls for the Employee Safety Incident risk.

MWC AK – Manage Environmental Operations – Includes costs for environmental compliance support, permits and day-to-day costs that are part of facility environmental operations. MWC AK also includes routine environmental work, including the labor costs of environmental professionals and facility personnel who perform environmental compliance tasks (e.g., inspections, compliance assessments, corrective actions, and hazardous waste management). This program does relate to safety, reliability, and maintenance because it addresses procedures for managing hazardous waste.

MWC AY – Habitat and Species Protection – Includes compliance with regulations to protect endangered species and sensitive habitats as part of PG&E's broader Environmental Stewardship Program. The Environmental Stewardship Program covers initiatives to support habitat and species protection, Safe Harbor Agreement, avian protection, land stewardship and conservation partnerships. MWC AY includes labor and expense associated with administration of the different programs. This program does not relate to safety, reliability, or maintenance.

MWC BI – Maintain Buildings – Includes costs to repair and maintain base buildings to extend the life of building components, correct building component

deficiencies, improve equipment operating efficiencies, and increase the operating reliability of buildings and yards. This program relates to safety, reliability, or maintenance because the facilities are required to support PG&E's safe and reliable delivery of energy and the funding is for maintenance of the buildings and related seismic safety.

MWC BP – Manage DCPP Business – Includes costs of aircraft services that have been moved from the Nuclear Generation lines of business (LOB). This program does not relate to safety, reliability, or maintenance because these aviation services are for non-Wildfire maintenance activities.

MWC CR – Manage Waste Disposal & Transportation – Includes costs of transportation and disposal of hazardous and other regulated wastes in accordance with federal and state laws and regulations. This program does relate to safety, reliability, or maintenance as it builds procedures to support the management, transport and disposal of hazardous waste.

MWC EP – Manage Property and Buildings – Includes costs to operate, maintain, and repair PG&E's facilities and shared conference center space. The program also captures costs for the General Office Memorandum Account such as moving activities, repairs/maintenance, and rent. This program relates to safety, reliability, or maintenance because the facilities are required to support PG&E's safe and reliable delivery of energy and the funding is for maintenance of the buildings and related seismic safety.

MWC ES – Implement Environment Projects – Includes costs associated with repairing, replacing, or upgrading equipment to comply with environmental regulations. This program does not relate to safety, reliability, or maintenance.

MWC FL – Safety Engineering & Occupational Safety and Health
Administration Compliance – Includes costs of the Safety Engineering &
Health Services department which provides overall direction and implementation
of the Company's occupational safety and health
programs for employees. MWC FL also includes costs for the development and
integration of safety and health solutions supporting the goal of eliminating
employee injuries. This program is for employee safety.

MWC IG – Manage Various Balancing Account Processes – Includes expense costs for various balancing and memorandum accounts:

 Fire Risk Mitigation Memorandum Account – Includes costs incurred for wildfire risk mitigation which were not included in PG&E's 2020 Wildfire Mitigation Plan (WMP) and not associated with wildfire mitigations described in PG&E's 2020 General Rate Case (GRC) that are recorded in the Wildfire Mitigation Balancing Account (WMBA). PG&E will determine the incrementality of these amounts to the Company's revenue requirement when it applies for cost recovery;

- WMP Memorandum Account Includes costs incurred to implement PG&E's approved WMP that are not associated with wildfire mitigations described in PG&E's 2020 GRC that are recorded in the WMBA. PG&E will determine the incrementality of these amounts to the Company's revenue requirement when it applies for cost recovery; and
- WMBA Includes ongoing wildfire mitigation program support costs forecast and described in the 2023 GRC.

This program relates to safety, reliability, or maintenance because the memorandum and balancing accounts track work to address mitigating wildfire risk. In Shared Services, specific investments include Corporate Real Estate Strategy and Services' ongoing efforts on the Emergency Generation Enhancement Project; and Land and Environmental Management's work with the Water Board in compliance with Senate Bill 901 to develop and implement a statewide permit program for wildfire mitigation work activities located in and adjacent to waters of the state.

MWC JE – Manage Land Services – Includes costs to establish policies and provide support for the management and protection of the Company's land and land rights in support of PG&E's utility operations. MWC JE also includes costs to manage the Company's timberlands to achieve optimal revenues while maintaining and/or enhancing timberland values. This program does not relate to safety, reliability, or maintenance.

MWC JH – Real Estate Strategy and Transactions – Includes costs for long-term real estate strategy development, space demand forecasting and planning and lease administration and transaction management. This program relates to safety, reliability, or maintenance because it supports seismic safety as it relates to Customer Service Office (CSO) relocations.

MWC JK – Manage Environmental Remediation-Earnings – Includes costs for the clean-up of contaminated sites which are **not** recovered through other proceedings, such as the Hazardous Substance Mechanism, or decommissioning accounts. These activities include internal labor and expenses associated with management and support of the site remediation as well as contractor and legal fees. This program does not relate to safety, reliability, or maintenance.

MWC JL – Procure Materials & Services – Includes costs to procure goods and services, including implementing programs to improve organizational effectiveness, developing supplier alliances, and maintaining and promoting a diverse supplier base. This program relates to safety and reliability because it supports establishing contracts for Wildfire System Hardening, the Wildfire Program Management Office and unit pricing other contract support services for Wildfire hardening efforts.

MWC JV – Maintain Applications and Infrastructure – Includes costs for ongoing maintenance, operations and repair for PG&E's IT applications, systems, and infrastructure. In addition, cybersecurity ongoing maintenance and operations as well as project costs are addressed. This program relates to safety, reliability, or maintenance because it contains both controls and mitigations for the Cybersecurity Risk event and mitigations for the IT Asset Failure Cross-Cutter Factor.

MWC KX – Provide Human Resource Services – Represents costs for the Integrated Disability Management program and support as well as services provided by Human Resources. This program does not relate to safety, reliability, or maintenance.

MWC KY – Provide Regulations Services – Includes costs for regulatory services and support. This program does not relate to safety, reliability, or maintenance.

MWC KZ – Provide Risk and Security Services – Includes support for corporate security, enterprise operations risk management, internal audit, and insurance functions. In Shared Services, this work is Corporate Security and ERM expense costs. Corporate Security includes guard services, investigations and investigators, executive protection, access control, physical security testing, video monitoring security facilities, and maintenance of security equipment. This

program relates to safety, reliability, or maintenance because it contains mitigations and controls for the Physical Attack Cross-Cutter Factor.

MWC OM – Operational Management –Includes labor and employee related costs to provide supervision and management support. MWC OM also includes costs incurred by the administrative staff working for the supervisors/managers. This program does not relate to safety, reliability, or maintenance.

MWC OS – Operational Support –Includes labor and employee related costs to provide services and support that are unrelated to supervision and management. Examples include Business Finance and Sourcing that support the LOB. This program does relate to safety, reliability and maintenance because it also includes costs for the Regional Safety program.

E. MWC Descriptions - Capital

MWC 04 – Fleet/Automotive Equipment – Includes acquisition of vehicles, power-operated and off-road equipment, and trailers needed to respond to customer service requests and the myriad of maintenance and construction needs of the Company. This program does not relate to safety, reliability, or maintenance.

MWC 05 – Tools & Equipment – Includes purchase of tools and equipment required to perform various functions, including fleet repairs, warehouse operations, etc. This program does not relate to safety, reliability, or maintenance.

MWC 12 – Implement Environment Projects – Includes costs associated with repairing, replacing, or upgrading equipment and facilities to comply with environmental regulations. This program does not relate to safety, reliability, or maintenance.

MWC 21 – Purchase/Install – Other Capital – Includes costs related to the miscellaneous purchase of capital and/or the disposition and sale of PG&E's surplus, obsolete or damaged assets. In addition, this MWC addresses costs related to PG&E's drones. This program does not relate to safety, reliability, or maintenance.

MWC 22 – Maintain Buildings – Includes the costs to replace and construct base buildings, to extend the life of building components, correct building component deficiencies, improve equipment operating efficiencies,

replace failed or functionally obsolete building components, and increase the operating reliability of buildings and yards. This includes furniture, office equipment, and IT Infrastructure for buildings. This program relates to safety, reliability, or maintenance because the facilities are required to support PG&E's safe and reliable delivery of energy and the funding is for maintenance of the buildings and related seismic safety.

 MWC 23 – Implement Real Estate Strategy – Includes the costs for new buildings and yards, including the purchase of land and the purchase and installation of furniture, office equipment, and IT Infrastructure, as well as the costs to improve building environmental sustainability, to implement workplace strategy, and to optimize the real estate portfolio. This program relates to safety, reliability, or maintenance because it supports seismic safety as it relates to CSO relocations and wildfire mitigations.

MWC 2F – Build Applications and Infrastructure – Includes the costs to design, develop and enhance applications, systems, and infrastructure technology solutions. In addition, costs for Cybersecurity projects are addressed. This program relates to safety, reliability, or maintenance because it contains mitigations for the for the Cyber Attack Risk Assessment and Mitigation Phase risk and mitigations for the IT Asset Failure Cross-Cutter Factor.

MWC 3N – Install/Replace Security Assets – Includes the costs to design, build, install, and replace Corporate Security assets. This program relates to safety, reliability, or maintenance because it contains mitigations for the Physical Attack Cross-Cutter Factor.

Comparison by MWC for Non-Safety, Reliability, and Maintenance Work Tables Ľ.

TABLE 6-5
2023 RSAR
2023 GRC CYCLE SHARED SERVCES/IT EXPENSE COMPARISON BY MAT FOR NON SAFETY, RELIABILITY AND MAINTENANCE WORK
(THOUSANDS OF DOLLARS)

	٨	В	5	C2	ខ	2	SS	Q	ш	ш	O	Ι	-	٦
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
1	O&M Expense	O&M Expense Shared Services	ΑΥ	Habitat and Species Protection	Non-SRM Total	Non-SRM Total	Ex 7, Ch 6	No	On-Going	Annual	343.5	480.3	136.8	39.8%
2	O&M Expense	O&M Expense Shared Services	ВР	Manage DCPP Business	Non-SRM Total	Non-SRM Total	Ex 7, Ch 2	No	On-Going	Annual	1,324.9	464.7	(860.2)	-64.9%
3	O&M Expense	O&M Expense Shared Services	ES	Implement Environment Projects	Non-SRM Total	Non-SRM Total	Ex 7, Ch 6	No	On-Going	Annual	705.7	623.3	(82.4)	-11.7%
4	O&M Expense	O&M Expense Shared Services	픠	Manage Land Services	Non-SRM Total	Non-SRM Total	Ex 7, Ch 6	_N	On-Going	Annual	4,504.3	3,708.8	(795.5)	-17.7%
5	O&M Expense	O&M Expense Shared Services	녹	Manage Environmental Remediation - Earnings	Non-SRM Total	Non-SRM Total	Ex 7, Ch 6	oN N	On-Going	Annual	6,087.6	3,919.0	(2,168.6)	-35.6%
9	O&M Expense	O&M Expense Shared Services	₹	Provide Regulation Services	Non-SRM Total	Non-SRM Total	Ex 7, Ch 6	°Z	On-Going	Annual	1,496.8	1,396.9	(6.66)	-6.7%
7	O&M Expense	O&M Expense Shared Services	2	Corp A&G Allocation - ATL	Non-SRM Total	Non-SRM Total	Ex 7, Ch 5	Š	On-Going	Annual	0.0	283.5	283.5	100.0%
8	O&M Expense	O&M Expense Shared Services	MO	Operational Management	Non-SRM Total	Non-SRM Total	Ex 7, Ch 6	No	On-Going	Annual	541.1	1,050.7	2.605	94.2%
6	O&M Expense IT	Ш	WO	Operational Management	Non-SRM Total	Non-SRM Total	Ex 7, Ch 8	No	On-Going	Annual	1,435.7	528.7	(907.0)	-63.2%

TABLE 6-6
2023 RSAR
2023 GRC CYCLE CORPORATE REAL ESTATE CAPITAL COMPARISON BY MAT FOR NON SAFETY, RELIABILITY AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

J	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	-9.1%	97.6%	43.8%	758 0%
	Difference for 2023 (\$) (H-G)	(10,296.3)	2,436.3	3,531.9	4.958.9
I	2023 Actual Costs	102,820.1	4,931.8	11,598.0	5.613.2
G	Program / Program / 2023 Imputed Project Life Project Year Adopted Costs (years)	113,116.4	2,495.5	8,066.1	654.2
ш	Program / Project Year	Annual	Annual	Annual	Annual
Ш	RAMP Roll- up Program / up Project Life (Yes/No) (years)	On-Going	On-Going	On-Going	bujo-buO
D	RAMP Roll- up (Yes/No)	No	N N	No	CZ
C5	2023 GRC Testimony Reference	Ex 7, Ch 2	Ex 7, Ch 2 Ex 7, Ch 3 Ex 7, Ch 6	Ex 7, Ch 6	Ex 7, Ch 2 Ex 7, Ch 3 Ex 7, Ch 6
2	RAMP Mitigation and/or Control Name	Non-SRM Total	Non-SRM Total	Non-SRM Total	Non-SRM Total
C3	RAMP Risk Name		Non-SRM Total	Non-SRM Total	Non-SRM Total
C2	MWC Name	04 Fleet/Automotive Equipment Non-SRM Total	Tools & Equipment	Implement Environment Projects	Purchase/Install - Other Capital
C1	MWC	04	90	12	21
В	Functional Area	Shared Services	Shared Services	Shared Services	Shared Services
Α	Type (O&M Expense or Capital)	Capital	Capital	Capital	Capital
	Line No	1	2	က	4

PACIFIC GAS AND ELECTRIC COMPANY SECTION 7 HUMAN RESOURCES IMPUTED ADOPTED VERSUS RECORDED COMPARISON

PACIFIC GAS AND ELECTRIC COMPANY SECTION 7 HUMAN RESOURCES IMPUTED ADOPTED VERSUS RECORDED COMPARISON

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PACIFIC GAS AND ELECTRIC COMPANY SECTION 7 HUMAN RESOURCES IMPUTED ADOPTED VERSUS RECORDED COMPARISON

A. Introduction

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This section includes the following information for the Human Resources (HR) functional area: a comparison of the total 2023 imputed adopted spend to the actual spend as well as the required data points per program as defined and required in Decision (D.) 22-10-002. This section also includes, for programs that are related to safety, reliability, or maintenance, the Major Work Category (MWC)/Maintenance Activity Type (MAT) Code descriptions, imputed adopted versus actual cost comparison details and variance explanations. As required by D.19-04-020, the MWC/MAT Code descriptions include a discussion of how each program/project relates to safety, reliability, or maintenance.

B. Comparison Summary Tables

TABLE 7-1 2023 RSAR 2023 GRC CYCLE HR EXPENSE COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	Е	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	O&M Expense	Human Resources	Human Resources (a)	N/A	87,921.5	105,205.7	17,284.2	19.7%
2	O&M Expense	Human Resources	TOTAL		87,921.5	105,205.7	17,284.2	19.7%

(a) Human Resources expenses are reported at the department level.

¹ D.22-01-002, Appendices A and B.

The Human Resources Organization expenses are not tracked by MWC or MAT, the expenses are tracked by department. The HR organization capital expenditures are tracked by MWC.

³ Attachment 2, p. 9.

TABLE 7-2 2023 RSAR 2023 GRC CYCLE HR CAPITAL COMPARISON SUMMARY (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	D	E	F	G
Line No	Type (O&M Expense or Capital)	Functional Area	Spending Category - MWC	MWC	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (E-D)	Percent Variance for 2023 (%) ((E-D)/D)
1	Capital	Human Resources	PG&E Academy	05	30.6	21.6	(9.1)	-29.6%
2	Capital	Human Resources	PG&E Academy	22	1,071.8	517.5	(554.3)	-51.7%
3	Capital	Human Resources	TOTAL		1,102.4	539.1	(563.3)	-51.1%

1 C. HR Comparison for Safety, Reliability, and Maintenance Work Tables

TABLE 7-3 2023 RSAR 2023 GRC CYCLE HR EXPENSE COMPARISON FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

	А	В	C1	C2	C3	C4	C5	D	E	F	G	Н	- 1	J	K1	K2	L	M1	M2	M3	N	0
Lin No	Type e (O&M Expense or Capital)	Functional Area	MWC	MWC Name ^(a)	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll- up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$ (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	2023 Cost Variance Explanation	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T	Status	Completion Status Statement
1	O&M Expense	Human Resources	N/A	PG&E Academy	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 8, Ch 6	No	On-going	Annual	40,427.0	32,021.1	(8,406.0)	-20.8%	NO	YES	Expenses were below imputed regulatory values due to a reduction contractor spend in Electric and Gas to support curriculum development.	Target	Target	Target	Proceeding as Planned	This work is ongoing and will continue in PG&E's 2023 GRC period. PG&E Academy provides ongoing training to PG&E coworkers.

(a) In the 2023 GRC, PG&E Academy is a department within the Human Resources organization and is not a MWC.

TABLE 7-4 2023 RSAR 2023 GRC CYCLE HR CAPITAL COMPARISON FOR SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

	Α	В	C1	C2	C3	C4	C5	D	Е	F	G	Н	1	J	K1	K2	L	M1	M2	M3	N	0
																			Forecast			
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference		Program / Project Life (years)		2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (H-G)	Spending Percent Variance for 2023 (%) ((H-G)/G*100)	Spending Variance Explanation Required (Y/N)	Percentage Variance Explanation Required (Y/N)	2023 Coot	Scope (U, O, or T)	Schedule (U, O, or T)	Budget (U, O, or T)	Status	Completion Status Statement
1	Capital	Human Resources	5	PG&E Academy	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 8, Ch 6	No	On-going	Annual	30.6	21.6	(9.1)	-29.6%	NO	NO	Below variance threshold.	Target	Target	Target	Proceeding as Planned N/A	
2	Capital	Human Resources	22	PG&E Academy	SRM Total (Non-RAMP)	SRM Total (Non-RAMP)	Ex 8, Ch 6	No	On-going	Annual	1,071.8	517.5	(554.3)	-51.7%	NO	NO	Below variance threshold.	Target	Target	Target	Proceeding as Planned N/A	

D. HR MWC Descriptions for Safety and Reliability Work - Capital

MWC 05 – Tools and Equipment – Includes the costs of tools and equipment purchased by PG&E for training facilities. The purchase of equipment is part of PG&E's training program because it allows students to learn using the same tools and equipment they will use on the job.

This MWC relates to safety, reliability, or maintenance as it includes tools and equipment purchased by PG&E for training facilities.

MWC 22 – Maintain Buildings – Includes the costs to maintain buildings, to extend the life of building components, correct building component deficiencies, improve equipment operating efficiencies, replace failed or functionally obsolete building components, and increase the operating reliability of buildings and yards. This includes furniture, office equipment, and IT Infrastructure for buildings.

This MWC relates to safety, reliability, or maintenance as it includes upgrades and maintenance to training facilities in order provide students with realistic simulations of the actual conditions they face in the workplace.

E. Comparison for Non-Safety, Reliability, and Maintenance Work Tables

TABLE 7-5 2023 RSAR 2023 GRC CYCLE HR EXPENSE COMPARISON FOR NON-SAFETY, RELIABILITY, AND MAINTENANCE WORK (THOUSANDS OF DOLLARS)

	А	В	C1	C2	C3	C4	C5	D	E	F	G	Н	I	J
Line No	Type (O&M Expense or Capital)	Functional Area	MWC	MWC Name	RAMP Risk Name	RAMP Mitigation and/or Control Name	2023 GRC Testimony Reference	RAMP Roll-up (Yes/No)	Program / Project Life (years)	Program / Project Year	2023 Imputed Adopted Costs		I littoronco tor	Spending Percent Variance for 2023 (%) ((H-G)/G*100)
1	O&M Expense	Human Resources	N/A	Human Resources (excluding PG&E Academy)	Non-SRM Total (Non-RAMP)	Non-SRM Total (Non-RAMP)	Ex 8, Ch 2-5	No	On-going	Annual	47,494.4	73,184.6	25,690.2	54.1%

PACIFIC GAS AND ELECTRIC COMPANY SECTION 8 CORPORATE SERVICES (ADMINISTRATIVE AND GENERAL) IMPUTED ADOPTED VS. RECORDED COMPARISON

PACIFIC GAS AND ELECTRIC COMPANY SECTION 8 CORPORATE SERVICES (ADMINISTRATIVE AND GENERAL) IMPUTED ADOPTED VS. RECORDED COMPARISON

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5	A.	Introduction
6		This section presents imputed adopted versus actual cost comparison
7		details for the Administrative and General (A&G) items presented in Pacific Gas
8		and Electric Company's (PG&E) 2023 General Rate Case (GRC). The
9		Corporate Services A&G department costs presented here support services
10		necessary for day-to-day operations. ¹

B. Comparison Summary Tables

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¹ A.21-06-021, PG&E 2023 GRC, Exhibit (PG&E-9), p. 1-1.

TABLE 8-1
2023 GRC CYCLE ADMINISTRATIVE & GENERAL
CORPORATE SERVICE EXPENSE
(THOUSANDS OF DOLLARS)

	A	В	S	O	Э	Ь
Line No.	Type (O&M Expense or Capital)	Organization	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (D-C)	Percent Variance for 2023 (%) ((D-C)/D*100)
_	O&M Expense - A&G	Finance	55,624.4	61,896.6	6,272.1	11.3%
2	O&M Expense - A&G	Risk and Audit	13,190.3	12,731.6	(458.8)	-3.5%
3	O&M Expense - A&G	Compliance and Ethics	8,641.2	12,578.9	3,937.7	45.6%
4	O&M Expense - A&G	Regulatory Affairs	17,792.9	15,531.3	(2,261.5)	-12.7%
2	O&M Expense - A&G	Law	47,713.2	68,082.2	20,369.0	42.7%
9	O&M Expense - A&G	PG&E Corp Secretary and Executive Offices	5,125.7	7,951.6	2,825.9	55.1%
7	O&M Expense - A&G	Corporate Affairs	8,956.9	7,266.1	(1,690.8)	-18.9%
8	Total Administrative and General	ind General	157,044.6	186,038.3	28,993.7	18.5%

TABLE 8-2
2023 GRC CYCLE ADMINISTRATIVE & GENERAL
CORPORATE SERVICE CAPITAL
(THOUSANDS OF DOLLARS)

	∢	В	ပ	Ω	Ш	ட	
Line No.	Type (O&M Expense or Capital)	Organization	2023 Imputed Adopted Costs	2023 Actual Costs	Difference for 2023 (\$) (D-C)	Percent Variance for 2023 (%) ((D-C)/D*100)	
_	Capital - A&G	Finance	0.0	753.1	753.1	100.0%	_
2	Capital - A&G	Risk and Audit	551.2	0.0	(551.2)	-100.0%	
3	Capital - A&G	Compliance and Ethics	551.2	1,243.6	692.4	125.6%	
4	Capital - A&G	Regulatory Affairs	1,653.6	0.0	(1,653.6)	-100.0%	
2	Total Administrative and	e and General	2,756.0	1,996.7	(759.2)	-27.5%	

PACIFIC GAS AND ELECTRIC COMPANY SECTION 9 COMPANYWIDE ITEMS IMPUTED ADOPTED VERSUS RECORDED COMPARISON

PACIFIC GAS AND ELECTRIC COMPANY SECTION 9 COMPANYWIDE ITEMS IMPUTED ADOPTED VERSUS RECORDED COMPARISON

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1 2 3		PACIFIC GAS AND ELECTRIC COMPANY SECTION 9 COMPANYWIDE ITEMS
4		IMPUTED ADOPTED VERSUS RECORDED COMPARISON
5	A.	Introduction
6		This section presents imputed adopted versus actual cost comparison
7		details for the Companywide items presented in Pacific Gas and Electric
8		Company's (PG&E) 2023 General Rate Case (GRC). The Companywide costs
9		presented here include insurance premiums, settlement, and judgements,
10		healthcare benefits, fees, and other similar costs. ¹

11 B. Comparison Summary Tables

¹ A.21-06-021, PG&E 2023 GRC, Exhibit (PG&E-9), p. 1-1.

TABLE 9-1 2023 RSAR 2023 GRC CYCLE COMPANYWIDE EXPENSE (THOUSANDS OF DOLLARS)

PACIFIC GAS AND ELECTRIC COMPANY SECTION 10 COST RECOVERY: BALANCING AND MEMORANDUM ACCOUNTS

PACIFIC GAS AND ELECTRIC COMPANY SECTION 10 COST RECOVERY: BALANCING AND MEMORANDUM ACCOUNTS

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PACIFIC GAS AND ELECTRIC COMPANY SECTION 10 COST RECOVERY: BALANCING AND MEMORANDUM ACCOUNTS

A. Introduction

This section includes the balancing and memorandum accounts associated with actual expenditures for all General Rate Case (GRC) programs in Pacific Gas and Electric Company's (PG&E) 2023 Risk Spending Accountability Report (RSAR), "where any portion of the program was tracked in a balancing account or memorandum account." The tables below identify which of these programs had expenditures that were recorded to a balancing or memorandum account by Major Work Category (MWC), the name of the account, the purpose of that account from the Preliminary Statement, and the year-end balance.2,3

D.19-04-020, p. 37; as updated in D.22-10-002, Appendix A, p. A3 (Requirement 25).

As noted in the Introduction Section 1, Information Technology (IT) and Corporate Real Estate (CRE) costs attributable to the Line of Business (LOB) at issue in this report are presented in a decentralized fashion, meaning LOB-specific IT and CRE program costs are included within the LOBs that initiated the programs.

³ Data is as of January 18, 2024.

B. Gas Distribution

TABLE 10-1
BALANCING AND MEMORANDUM ACCOUNTS INCLUDED IN 2023 RSAR FOR GAS DISTRIBUTION (THOUSANDS OF DOLLARS)

2023 Actuals	\$9,526	\$1,097	\$3,569
Preliminary Statement Name & Purpose	<u>DZ</u> : The purpose of the NERBA is to record and track actual expenses and capital revenue requirements compared to the adopted budget for incremental best practice activities related to Grade 3 leak repairs in accordance with California Public Utilities Commission (CPUC or Commission) Resolution (Res.) G-3538. The NERBA is a two-way balancing account. The "Distribution Subaccount" records and tracks actual gas distribution expenses and capital revenue requirements compared to the adopted gas distribution revenue requirements for incremental best practice activities related to minimizing methane emissions.	<u>GB</u> : The purpose of the AEPBA is to track and record actual expenses and capital revenue requirements based on actual capital expenditures over the 2023 GRC cycle (2023-2026), up to the total adopted revenue requirements for the Alternative Energy Program (AEP). To the extent a Tier 1 Advice Letter (AL) is submitted to transfer additional avoided expenses or capital expenditures from other programs to the AEP, PG&E will include in the balancing account actual expenses or the capital revenue requirement associated with actual capital expenditures incurred during the rate case period up to the adopted values per the Tier 1 AL. The AEPBA is a one-way balancing account.	<u>DZ</u> : The purpose of the NERBA is to record and track actual expenses and capital revenue requirements compared to the adopted budget for incremental best practice activities related to Grade 3 leak repairs in accordance with Commission Res.G-3538. The NERBA is a two-way balancing account. The "Distribution Subaccount" records and tracks actual gas distribution expenses and capital revenue requirements compared to the adopted gas distribution revenue requirements for incremental best practice activities related to minimizing methane emissions.
Disposition of Cost Recovery Request	Decision (D.) 23-11-069	D.23-11-069	D.23-11-069
Balancing/ Memorandum Account Name	New Environmental Regulations Balancing Account (NERBA) Distribution Sub-Account	Alternative Energy Program Balancing Account (AEPBA)	NERBA Distribution Sub-Account
MWC Name	Gas Leak Abatement Program	Alternative Energy Balancing Account	Gas Leak Abatement Program
MWC	Expense: MWC LW	Expense: MWC AB	Capital: MWC 3P
Line No.	_	2	ო

The 2023 recorded balance for Gas Distribution New Balancing Account (GDNBBA) is \$80.1 million dollars. At the time the data was pulled for the 2023 RSAR, actual costs in MWC 29 had not been transferred to the GDNBBA. Note

C. Gas Transmission and Storage

TABLE 10-2
BALANCING AND MEMORANDUM ACCOUNTS INCLUDED IN 2023 RSAR FOR GT&S
(THOUSANDS OF DOLLARS)

Line No.	MWC	MWC Name	Balancing/ Memorandum Account Name	Disposition of Cost Recovery Request	Preliminary Statement Name & Purpose	2023 Actuals
7	Expense: MWC HP	Transmission Integrity Management Program (TIMP)	Transmission Integrity Management Program Balancing Account (TIMPBA)	D.23-11-069	CL: The purpose of the TIMPBA is to track the difference between adopted expenses related to PG&E's TIMP and actual expenses incurred. The TIMPBA is a one-way balancing account. This account is comprised of a Main Account, which tracks amounts related to backbone transmission and/or storage activity that is recovered from all customers and a Local Transmission (LT) Subaccount, which tracks amounts related to LT activity that is recovered from all customers except Backbone Service-Level end-use customers who do not fund LT activities.	\$240,182
2	Expense: MWC HP	ТІМР	Transmission Integrity Management Program Memorandum (TIMPMA)	D.23-11-069	<u>OP</u> : The purpose of the TIMPMA is to record and track costs associated with any new transmission integrity management statutes or rules, or new or changed interpretation by a regulatory body of transmission integrity management statutes or rules, effective after January 1, 2015. This account is comprised of a main account, which records backbone transmission and/or storage costs for future recovery from all customers and a Local Transmission Subaccount, which records local transmission costs for future recovery from all customers except Backbone Service-Level end-use customers who do not fund local transmission activities.	\$337
3	Expense: MWC AH	Maintain Gas Storage Facilities	Gas Storage Balancing Account (GSBA)	D.23-11-069	EJ: The purpose of the Gas Storage Balancing Account (GSBA) is to track and record actual expenses and capital revenue requirements based on actual capital expenditures, compared to the revenue requirements based on the adopted capital expenditures for PG&E's natural gas storage facilities, excluding Gill Ranch. The GSBA is a two-way balancing account. The account is subject to a reasonableness review.	\$9,015

2023 Actuals	\$855	\$474	\$	\$8	\$33	\$115,636	\$2,623
Preliminary Statement Name & Purpose	<u>EL</u> : The purpose of the GSRRMA is to track and record incremental costs to comply with any new federal or state statutes, regulations and rules, or new or changed interpretation by a regulatory body of	statutes, regulations and rules, which are issued between GT&S funding cycles for which PG&E has not been able to incorporate a forecast of costs into a rate case and which are not already	addressed and recorded in another account. This account is comprised of a Main Account, which records backbone transmission	and/or storage costs for future recovery from all customers and a L1 Subaccount, which records LT costs for future recovery from all customers except Backbone Service-Level end-use customers who	do not fund LT activities.	EJ: The purpose of the GSBA is to track and record actual expenses and capital revenue requirements based on actual capital expenditures, compared to the revenue requirements based on the adopted capital expenditures for PG&E's natural gas storage facilities, excluding Gill Ranch. The GSBA is a two-way balancing account. The account is subject to a reasonableness review.	ER: The purpose of the ICBA is to track the difference between the capital revenue requirements associated with adopted capital expenditures for the Internal Corrosion Program and the revenue requirement associated with actual capital expenditures over the 2023-2026 rate case cycle. The ICBA is a one-way balancing account. This account is comprised of a Main Account, which tracks amounts related to backbone transmission and/or storage activity that is recovered from all customers and a LT Subaccount, which tracks amounts related to LT activity that is recovered from all customers except Backbone Service-Level end-use customers who do not fund LT activities.
Disposition of Cost Recovery Request	D.23-11-069					D.23-11-069	D.23-11-069
Balancing/ Memorandum Account Name	Gas Statutes Regulations and Rules	Memorandum Account (GSRRMA)				GSBA	Internal Corrosion Balancing Account (ICBA)
MWC Name	GT Reliability & General Maintenance	Misc Expense	Gas Trans & Dist Sys Mapping	Gas Trans & Dist Sys Mapping	GT Pipeline Reliability	Gas Transmission Storage Wells	Gas Trans Remediate Corrosion
MWC	Expense: MWC JT	Expense: MWC AB	Expense: MWC GF	Expense: MWC JP	Capital: MWC 75	Capital: MWC 3L	Capital: MWC 3K
Line No.	4	5	9	7	8	6	10

BALANCING AND MEMORANDUM ACCOUNTS INCLUDED IN 2023 RSAR FOR GT&S (THOUSANDS OF DOLLARS) (CONTINUED) **TABLE 10-2**

2023 Actuals	uunt (ILIBA) \$145,155 iments tional requirement 116 sis over the cing	L407MA) is \$48 Lal capital project, above 'G&E's next are	iness \$1,049 fference ppted capital ge Gas (MAT) 26A, al
Preliminary Statement Name & Purpose	FA: The purpose of the In-Line Inspection Balancing Account (ILIBA) is to record the difference between capital revenue requirements associated with adopted capital expenditures for the Traditional In-Line Inspection (ILI) Upgrade program and the revenue requirement associated with actual capital expenditures for the adopted 16 Traditional ILI projects (4-projects per) on an aggregate basis over the 2023-2026 rate case cycle. The ILIBA is a one-way balancing account.	DN: The purpose of the Line 407 Memorandum Account (L407MA) is to record the revenue requirement associated with the actual capital expenditures incurred for the construction of the Line 407 project, above \$180.8 million as authorized by the Commission in D.19-09-025, PG&E's 2019 GT&S Rate Case. The costs above \$180.8 million are subject to a reasonableness review in PG&E's next rate case. L407 is a LT asset and therefore only LT costs are recorded to this account.	GD: The purpose of the Gas Transmission (GT) New Business Balancing Account (GTNBBA) is to track and record the difference between capital revenue requirements associated with adopted capital expenditures for interconnection projects and PG&E's Large Gas Solutions Program, i.e., Capital Maintenance Activity Type (MAT) 26A, and the revenue requirements associated with actual capital expenditures over the 2023 GRC cycle (2023-2026). Only costs associated with GT New Business projects that meet the July 1, 2023.
Disposition of Cost Recovery Request	D.23-11-069	D.23-11-069	D.23-11-069
Balancing/ Memorandum Account Name	In-Line Inspection Balancing Account (ILIBA)	Line 407 Memorandum Account (L407MA)	Gas Transmission New Business Balancing Account (GTNBBA)
MWC Name	GT Integrity Management	GT Pipeline Capacity	GT Customer Connects
MWC	Capital: MWC 98	Capital: MWC 73	Capital: MWC 26
Line No.	11	12	13

Storage Decommissioning Balancing Account, Locate and Mark Memorandum Account, Atmospheric Corrosion Balancing Account, Alternating Current The 2023 GRC Final Decision closed the following GT&S accounts: In-Line Inspection Memorandum Account, Internal Corrosion Direct Assessments Account, M&C Station Over Pressure Protection Memorandum Account, Routine Compression & Processing Memorandum Account, Below-Ground Balancing Account, Critical Documents Program Memorandum Account, M&C Station Rebuilds Balancing Account, Physical Security Balancing Memorandum Account, Hydrostatic Testing Balancing Account, Root Cause Analysis Memorandum Account, Engineering Critical Assessment Interference Balancing Account, and the Casings Program Balancing Account. Note

D. Electric Distribution

TABLE 10-3
BALANCING AND MEMORANDUM ACCOUNTS INCLUDED IN 2023 RSAR FOR ELECTRIC DISTRIBUTION (THOUSANDS OF DOLLARS)

2023 Actuals	ler	\$859,187	cle. \$297,590 nal is a	s at	tual \$38,357	\$ \$49,287	-) to	j to ugh i the	j to 1gh 1the ount	j to igh t the	j to ligh the ount	J to agh the sount ue	J to Ligh T the Sunt
Preliminary Statement Name & Purpose	BU: The purpose of the VMBA is to record actual	expenses related to Routine Vegetation Management, Enhanced Vegetation Management, Tree Mortality and Fire Dick Beduction work in to	adopted amounts for the entire GRC funding cycle. PG&E may amend the VMBA to include additional vegetation management programs. The VMBA is a one-way balancing account.	Disposition of the balance in this account will be at the end of the funding cycle. Any overcollections at the end of the rate case cycle will be returned to customers through a regularly scheduled Annual Electric True-up (AET) AL or other rate change AL, or as otherwise authorized by the Commission through the Distribution Revenue Adjustment Mechanism	GJ: The purpose of the MEBA is to recover actual expenses and capital revenue requirements	resulting from responding to major emergencies and catastrophic events not eligible for recovery through the Catastrophic Event Memorandum		Account (CEMA). In some cases, costs relating to major emergencies that are found by the Commission not to be elicible for recovery through	Account (CEMA). In some cases, costs relating to major emergencies that are found by the Commission not to be eligible for recovery through the CEMA process may be recoverable through the	Account (CEMA). In some cases, costs relating to major emergencies that are found by the Commission not to be eligible for recovery through the CEMA process may be recoverable through the MEBA. The MEBA is a two-way balancing account in which PCSE records the difference between	Account (CEMA). In some cases, costs relating major emergencies that are found by the Commission not to be eligible for recovery throuthe CEMA process may be recoverable through MEBA. The MEBA is a two-way balancing acco	Account (CEMA). In some cases, costs relating major emergencies that are found by the Commission not to be eligible for recovery throuthe CEMA process may be recoverable through MEBA. The MEBA is a two-way balancing acco	Account (CEMA). In some cases, costs relating to major emergencies that are found by the Commission not to be eligible for recovery through the CEMA process may be recoverable through th MEBA. The MEBA is a two-way balancing accour in which PG&E records the difference between actual and adopted expenses and capital revenue	Account (CEMA). In some cases, costs relating major emergencies that are found by the Commission not to be eligible for recovery throuthe CEMA process may be recoverable through MEBA. The MEBA is a two-way balancing accoin which PG&E records the difference between actual and adopted expenses and capital reven
Disposition of Cost Recovery Request	D.23-11-069				D.20-12-005									
Balancing/Memorandum Account Name	Vegetation Management	Balancing Account (VMBA)			Major Emergency Balancing Account (MEBA)									
MWC Name		Electric Distribution Tree Trimming	Information Governance: Manage Var Bal Acct Processes		Electric Distribution Major Emergency	Electric Distribution Major Emergency								
MWC	Expense:	NH	91		Expense: IF	Capital: 95								
Line No.	1	2	8		4	2								

2023 Actuals	\$31,503		\$1,140	\$51	\$10,277	\$258	\$7,543	\$211	\$83	\$73	
Preliminary Statement Name & Purpose	<u>10</u> : The purpose of the Wildfire Mitigation	Balancing Account – Electric (WMBA-E) is to track actual expenses and capital expenditures against adopted amounts and to record associated	risk mitigation work, allocated to the electric distribution and generation functions, up to the	aggregate expense and capital revenue requirements adopted for the 2023 GRC cycle (2023-2026). These costs include, but are not	limited to, expenses and the revenue requirements associated with capital expenditures for:	(2) PSPS Operations and associated Customer	Communications; (3) System Hardening, Enhanced Automation, and PSPS Impact Mitigations; (4) CWSP PMO; (5) IT for Wildfire Mitigation; and (6) Enhanced Powerline Safety Settings. Costs	recorded to the WMBA-E do not include costs recovered through the CEMA, the Fire Risk Mitigation Memorandum Account (FRMMA) or the	Wildlife Wildgation Plan Memorandum Account (WMPMA).	rice wwidex= is a otherway balancing account that records actual expenses and capital revenue requirements up to the total adopted expense and capital expenditures for the entire GRC funding cycle (2023-2026).	Upon issuance of securitized debt to fund capital expenditures in the WMBA, capital revenue requirements related to these capital expenditures will be modified to exclude depreciation expense, the return on investment, and taxes, with the exception of property taxes.
Disposition of Cost Recovery Request	D.23-11-069										
Balancing/Memorandum Account Name	Wildfire Mitigation	Balancing Account (WMBA)									
MWC Name		Support and Emergency Preparedness and Response (EP&R)	Electric Distribution Operate System	Electric T&D Patrol/Inspection	Electric Distribution Routine Emergency	Provide Field Service	Electric Distribution Engineering and Planning	Electric Distribution Substations Operate and Maintain Assets	Distribution Operational Tech	Distribution Automation & Protection	
MWC	Expense:	AB	BA	BF	ВН	DD	FZ	29	HG	XH	
Line No.	9	7	∞	6	10	11	12	13	14	15	

TABLE 10-3
BALANCING AND MEMORANDUM ACCOUNTS INCLUDED IN 2023 RSAR FOR ELECTRIC DISTRIBUTION
(THOUSANDS OF DOLLARS)
(CONTINUED)

2023 Actuals	\$107,556	\$126	\$62,820	06\$		\$15,717	\$1,008,684	\$13,887	\$22,325	\$18,271	\$49,294
Preliminary Statement Name & Purpose											
Disposition of Cost Recovery Request	D.23-11-069										
Balancing/Memorandum Account Name	Wildfire Mitigation Balancing Account (WMBA) - Continued										
MWC Name	Information Governance: Manage Var Bal Acct Processes	Electric Distribution Maintenance OH General	Wildfire Mitigation		Tools & Equipment	Electric Distribution Install / Replace OH Poles	Electric Distribution Overhead (OH) Asset Replacement	Electric Distribution Automation and Protection	Miscellaneous Capital and EP&R	Electric Distribution Preventive Maintenance Overhead	Build IT Applications and Infrastructure
MWC	IG	KA	WF	Capital:	05	07	08	60	21	2A	2F
Line No.	16	17	18	19	20	21	22	23	24	25	26

2023 Actuals	\$82,404	\$4,530	\$45,083	\$15	e of to as as		\$508	\$10
Preliminary Statement Name & Purpose				HQ: The purpose of the FRMMA is to record,	pursuant to Public Utilities Code (Pub. Util. Code) Section 8386 (j), incremental costs of fire risk mitigation work that is not otherwise recovered in PG&E's adopted revenue requirements. Such costs shall include, but are not limited to, expense and capital expenditures for: advanced system hardening and resiliency; expanded automation and protection; improved wildfire detection; enhanced event response capacity, and VM activities. Costs recorded to the FRMMA will not include costs approved for recovery in PG&E GRCs or recovered through PG&E's CEMA, Fire Hazard Prevention Memorandum Account (FHPMA) or other cost recovery mechanisms including the memorandum account approved as part of PG&E's WMP (Pub. Util. Code Section 8386 (e)).			
Disposition of Cost Recovery Request	D.23-11-069			Disposition	Letter Dated March 12, 2019			
Balancing/Memorandum Account Name	Wildfire Mitigation Balancing Account (WMBA)	– Continued		Fire Risk Mitigation	Memorandum Account (FRMMA)			
MWC Name	Install/Replace Wildfire Mitigation Equipment	Electric Distribution Substation Replace Other Equipment	Electric Distribution Reliability Circuit/Zone		Support and EP&R		Electric Distribution Replace OH Asset	Electric Distribution Substation Replace
MWC	30	48	49	Expense:	AB	Capital:	08	48
Line No.	27	28	29	30	93	32	33	35

2023 Actuals		\$10	\$18,404	\$101		\$4,258	\$89,050		\$16,071		
Preliminary Statement Name & Purpose	HX: The purpose of the WMPMA is to record, pursuant to SB 901 (Pub. Util. Code Section 8386.4 (a)) and the WMP (also known as the Wildfire Safety Plan) approved by the Commission, incremental costs incurred to implement an approved WMP that are not otherwise recovered in PG&E's adopted revenue requirements. Such costs may include expense and capital expenditures for activities including, but not limited to, operational practices, inspection programs, system hardening, EVM, enhanced situational awareness, PSPS, and alternative technologies. Costs recorded to the WMPMA will not include costs approved for recovery in PG&E GRCs or recovered through PG&E's CEMA, FHPMA, FRMMA, or other cost recovery mechanisms.							the difference between the adopted expenses and capital revenue requirements and actual expenses and capital revenue requirements based on actual	capital additions for the electric distribution Overhead and Underground Maintenance Program beginning January 1, 2023. The OUMBA is a two-way balancing account. Costs recorded to this account do not include costs recovered through the Wildfire Mitigation Balancing Account (WMBA) or Wildfire Mitigation Plan Memorandum Account (WMPMA).		
Disposition of Cost Recovery Request	andum Account	dum Account 2, 2019							D.23-11-069		
Balancing/Memorandum Account Name	Wildfire Mitigation Plan Memorandum Account (WMPMA) Disposition Letter Dated March 12, 2019						Overhead and Underground	Maintenance Balancing Account (OUMBA)			
MWC Name		Support and EP&R	Information Governance: Manage Var Bal Acct Processes	Wildfire Mitigation		Build IT Apps & Infra		Electric Distribution Maintenance OH General	Electric Distribution Maintenance UG		
MWC	Expense:	AB	DI DI	WF	Capital:	2F	Expense:	ΚΆ	Αχ		
Line No.	36	37	38	39	40	41	42	43	4		

of the RBA is to record the nother Rule 20 program revenue ed in PG&E's GRC proceeding and benses and capital revenue ersion projects consistent with the rised to complete overhead to ersion projects consistent with the The RBA will also record the cociated with the Rule 20 audit g Paragraph 9 of D.17-05-013. The balancing account. 11-069, the Commission adopted avice Letter 6246-E, Rule 20B and ned as new subaccounts for RQs compared to actual spending 20C programs adopted in the 2023 and ned as new subaccounts for the ABC sompared to actual spending 30C programs adopted in the 2023 of the COECRBA is to record and a between the adopted capital ants and capital revenue and on actual capital revenue and on actual capital additions for the Equipment Cable Replacement by January 1, 2023. The Critical ent Cable Replacement Program is sections of underground									
MWC Name Balancing/Memorandum Cost Recovery Account Name Account Name Request Account Name Preventive Maintenance Distribution Preventive Maintenance Balancing Account Doubles) - Continued Overhead and Underground Doubles) - Continued Overhead Account Belancing Account Doubles) - Continued Overhead Name Overhead Account Belancing Account Doubles) - Continued Overhead Acct Raba Counts Subaccounts Rule 20A Processes Subaccounts Rule 20A at the Request of Others General Capital: Octobers Belancing Account Does and Preventive Maintenance Capital: Octobers Belancing Account Does and Rule 20A Belancing Account Balancing Account Balancing Account Does Belancing Account Does Belancing Account Balancing Account Balancing Account Balancing Account COECRBA)	2023 Actuals	\$378,852		\$86,589	\$148		Footnote (a)		\$7,944
MWC Name Balancing/Memorandum Capital: 2A Electric Distribution Preventive Maintenance Dyerhead and Underground Preventive Maintenance Underground Preventive Maintenance Underground Manage Var Bal Acct Processes Capital: 30 Electric Distribution Work at the Request of Others General Capital: 4 Electric Distribution Work at the Request of Others General Capital: 56 Electric Distribution Work at the Request of Others General Capital: 6 Electric Distribution Work at the Request of Others General Capital: 6 Electric Distribution Work at the Request of Others General Capital: 6 Electric Distribution Work at the Request of Others General Capital: 7 Electric Distribution Work at the Request of Others General Capital: 7 Electric Distribution Work at the Request of Others General Capital: 8 Electric Distribution Work at the Request of Others General Capital: 9 Electric Distribution Work at the Request of Others General Capital: 9 Electric Distribution Work at the Request of Others General Capital: 9 Electric Distribution Work at the Request of Others General Capital: 9 Electric Distribution Work at the Request of Others General Capital: 9 Electric Distribution Work at the Request of Others General Capital: 9 Electric Distribution Work at the Request of Others General Capital: 9 Electric Distribution Work at the Request of Others General Capital: 9 Electric Distribution Work at the Request of Others General Capital: 9 Electric Distribution Work at the Request of Others General Capital: 9 Electric Distribution Work at the Request of Others Account Capital States Account Cap	Preliminary Statement Name & Purpose				<u>HC</u> : The purpose of the RBA is to record the difference between the Rule 20 program revenue requirement adopted in PG&E's GRC proceeding and PG&E's actual expenses and capital revenue	requirements required to complete overhead to underground conversion projects consistent with the Rule 20 program. The RBA will also record the expense costs associated with the Rule 20 audit ordered in Ordering Paragraph 9 of D.17-05-013. The RBA is a one-way balancing account.	Pursuant to D.23-11-069, the Commission adopted D.21-06-13 and Advice Letter 6246-E, Rule 20B and 20C were established as new subaccounts for tracking adopted RRQs compared to actual spending for Rule 20B and 20C programs adopted in the 2023 GRC effective January 1, 2023.	<u>KA</u> : The purpose of the COECRBA is to record and	track the difference between the adopted capital revenue requirements and capital revenue requirements based on actual capital additions for the Critical Operating Equipment Cable Replacement Program beginning January 1, 2023. The Critical Operating Equipment Cable Replacement Program is for replacing failed sections of underground distribution cable. The COECRBA is a two-way balancing account.
Capital: 2A Electric Distribution Preventive Maintenance Overhead Overhead Underground Preventive Maintenance Underground Processes Expense: IG Information Governance: Manage Var Bal Acct Processes Capital: 30 Electric Distribution Work at the Request of Others Rule 20A Capital: 0 Electric Distribution Work at the Request of Others General Capital: 6 Electric Distribution Preventive Maintenance Overhead	Disposition of Cost Recovery Request	D.23-11-069			D.21-06-013		D.23-11-069	D.23-11-069	
Capital: 2A Expense: IG Capital: 30 Capital: 56	Balancing/Memorandum Account Name	Overhead and Underground	Maintenance Balancing Account (OUMBA) - Continued		Rule 20 Balancing Account (RBA) including Rule 20A, Rule 20C sud Rule 20C subaccounts			Critical Operating Equipment	Cable Replacement Balancing Account (COECRBA)
	MWC Name		Electric Distribution Preventive Maintenance Overhead	Electric Distribution Preventive Maintenance Underground	Information Governance: Manage Var Bal Acct Processes	Electric Distribution Work at the Request of Others Rule 20A	Electric Distribution Work at the Request of Others General		Electric Distribution Preventive Maintenance Overhead
Line No	MWC	Capital:	2A	28	Expense: IG	Capital: 30	Capital:10	Capital:	56
	Line No.	45	46	47	48	49	50	51	52

The 2023 recorded balance of Rule 20B and Rule 20C is approximately \$52 million dollars. At the time the data was pulled for the 2023 RSAR, costs to be recorded in the Rule 20B and 20C accounts had not been transferred. (a)

E. Energy Supply: Nuclear Generation

TABLE 10-4
BALANCING AND MEMORANDUM ACCOUNTS INCLUDED IN 2023 RSAR FOR NUCLEAR GENERATION
(THOUSANDS OF DOLLARS)

2023 Actuals	\$2,744	\$32
Preliminary Statement	GM: The purpose of the NRCRBA is to recover actual expenses for complying with existing, emerging or evolving Nuclear Regulatory Commission regulations, rulemakings, orders, bulletins and/or generic letters, and the Code of Federal Regulations (CFR) 10-50-54F – Conditions of Licenses at Diablo Canyon. Specifically, the NRCRBA tracks and adjusts for the difference in expenses based on actual versus adopted costs.	The purpose of the DOELBA is to recover actual expenses for litigation costs related to the spent fuel storage from the Department of Energy
Disposition of Cost Recovery Request	D.14-08-032	D.14-08-032
Balancing/ Memorandum Account Name	Nuclear Regulatory Commission Rulemaking Balancing Account (NRCRBA)	Department of Energy Litigation BA (DOELBA)
MWC Name	Manage Var Bal Acct Processes	Manage Var Bal Acct Processes
MWC	Expense: MWC IG	Expense: MWC IG
Line No.		7

F. Energy Supply: Power Generation

TABLE 10-5
BALANCING AND MEMORANDUM ACCOUNTS INCLUDED IN 2023 RSAR FOR POWER GENERATION (THOUSANDS OF DOLLARS)

2023 Actuals	\$20,652	\$491	\$4,354
Preliminary Statement	GL: The purpose of the HLBA is to recover actual expenses and capital revenue requirements based on actual capital expenditures related to Federal Energy Regulatory Commission (FERC) hydro licensing activities, which include, but are not limited to, renewing, amending, surrendering, decommissioning, compliance requirements, FERC and California Division of Safety of Dams (DSOD) regulatory fees, costs associated with implementation of the Crane Valley Recreation Settlement Agreement (SA), and costs associated with work required as a result of the 2017 Oroville Dam incident. Specifically, the HLBA tracks and adjusts for the difference in actual and adopted expenses and capital revenue requirements associated with relicensing and amending/modifying licenses issued on or after January 1, 2012, including costs associated with implementing and complying with new license conditions or requirements resulting from renewed, modified, or amended licenses.	HQ: The purpose of the FRMMA is to record, pursuant to Pub. Util. Code Section 8386 (j) incremental cost of fire risk mitigation work that is not otherwise recovered in PG&E's adopted revenue requirements. Such costs shall include, but are not limited to, expense and capital expenditures for: advanced system hardening and resiliency; expanded automation and protection; improved wildfire detection; enhanced event response capacity, and VM activities. Costs recorded to the FRMMA will not include costs approved for recovery in PG&E GRCs or recovered through PG&E's CEMA, FHPMA or other cost recovery mechanisms including the memorandum account approved as part of PG&E's annual WMP, as set forth in Pub. Util. Code Section 8386 (e).	HX: The purpose of the WMPMA is to record, pursuant to Pub. Util. Code Section 8386.4 (a) and the WMP approved by the Commission, incremental costs incurred to implement an approved WMP that are not otherwise recovered in PG&E's adopted revenue requirements. Such costs may include expense and capital expenditures for activities including but not limited to: operational practices, inspection programs, system hardening, EVM, enhanced situational awareness, PSPS, and alternative technologies. Costs recorded to the WMPMA will not include costs approved for recovery in PG&E GRCs or recovered through PG&E's CEMA, FHPMA, FRMMA, or other cost recovery mechanisms.
Disposition of Cost Recovery Request	D.20-12-005	Disposition Letter Dated March 12, 2019	Disposition Letter Dated March 12, 2019
Balancing/ Memorandum Account Name	Hydro Licensing Balancing Account (HLBA)	FRMMA	WMPMA
MWC Name	Manage Var Bal Acct Processes	Manage Var Bal Acct Processes	Manage Var Bal Acct Processes
MWC	Expense:	Expense:	Expense:
Line No.	1	2	ო

2023 Actuals	\$35,347	\$82	\$786
Preliminary Statement	GL: The purpose of the HLBA is to recover actual expenses and capital revenue requirements based on actual capital expenditures related to FERC hydro licensing activities, which include, but are not limited to, renewing, amending, surrendering, decommissioning, compliance requirements, FERC and California DSOD regulatory fees, costs associated with implementation of the Crane Valley Recreation SA, and costs associated with work required as a result of the 2017 Oroville Dam incident. Specifically, the HLBA tracks and adjusts for the difference in actual and adopted expenses and capital revenue requirements associated with relicensing and amending/modifying licenses issued on or after January 1, 2012, including costs associated with implementing and complying with new license conditions or requirements resulting from renewed, modified, or amended licenses.	HQ: The purpose of the FRMIMA is to record, pursuant to Pub. Util. Code Section 8386 (j) incremental cost of fire risk mitigation work that is not otherwise recovered in PG&E's adopted revenue requirements. Such costs shall include, but are not limited to, expense and capital expenditures for: advanced system hardening and resiliency; expanded automation and protection; improved wildfire detection; enhanced event response capacity, and VM activities. Costs recorded to the FRMIMA will not include costs approved for recovery in PG&E GRCs or recovered through PG&E's CEMA, FHPMA or other cost recovery mechanisms including the memorandum account approved as part of PG&E's annual WMP, as set forth in Pub. Util. Code Section 8386 (e).	HX: The purpose of the WMPMA is to record, pursuant to Pub. Util. Code Section 8386.4 (a) and the WMP approved by the Commission, incremental costs incurred to implement an approved WMP that are not otherwise recovered in PG&E's adopted revenue requirements. Such costs may include expense and capital expenditures for activities including but not limited to: operational practices, inspection programs, system hardening, EVM, enhanced situational awareness, PSPS, and alternative technologies. Costs recorded to the WMPMA will not include costs approved for recovery in PG&E GRCs or recovered through PG&E's CEMA, FHPMA, FRMMA, or other cost recovery mechanisms.
Disposition of Cost Recovery Request	D.20-12-005	Disposition Letter Dated March 12, 2019	Disposition Letter Dated March 12, 2019
Balancing/ Memorandum Account Name	HLBA	FRMMA	WMPMA
MWC Name	Hydroelectric License and License Conditions	Instl/Rpl for Hydro Safety and Reg	Instl/Rpl for Hydro Safety and Reg
MWC	Capital: MWC 3H	Capital: MWC 2L	Capital: MWC 2L
Line No.	4	ιο	ω

G. Customer and Communications

TABLE 10-6
BALANCING AND MEMORANDUM ACCOUNTS INCLUDED IN 2023 RSAR FOR CUSTOMER AND COMMUNICATIONS
(THOUSANDS OF DOLLARS)

2023 Actuals	\$1,494	\$5,463	\$33,998
Preliminary Statement	HX: The purpose of the WMPMA is to record, pursuant to SB 901 (Pub. Util. Code Section 8386.4 (a)) and the WMP (also known as the Wildfire Safety Plan) approved by the Commission, incremental costs incurred to implement an approved WMP that are not otherwise recovered in PG&E's adopted revenue requirements. Such costs may include expense and capital expenditures for activities including but not limited to: operational practices, inspection programs, system hardening, EVM, enhanced situational awareness, PSPS, and alternative technologies. Costs recorded to the WMPMA will not include costs approved for recovery in PG&E GRCs or recovered through PG&E's CEMA, FHPMA, FRMMA, or other cost recovery mechanisms.	HX: The purpose of the WMPMA is to record, pursuant to SB 901 (Pub. Util. Code Section 8386.4 (a)) and the WMP (also known as the Wildfire Safety Plan) approved by the Commission, incremental costs incurred to implement an approved WMP that are not otherwise recovered in PG&E's adopted revenue requirements. Such costs may include expense and capital expenditures for activities including but not limited to: operational practices, inspection programs, system hardening, EVM, enhanced situational awareness, PSPS, and alternative technologies. Costs recorded to the WMPMA will not include costs approved for recovery in PG&E GRCs or recovered through PG&E's CEMA, FHPMA, FRMMA, or other cost recovery mechanisms.	<u>IO</u> : The purpose of the WMBA-E is to track actual expenses and capital expenditures against adopted amounts and to record associated expenses and capital revenue requirements for fire risk mitigation work, allocated to the electric distribution and generation functions. These costs include, but are not limited to, expenses and the revenue requirements associated with capital expenditures for: advanced system hardening and resiliency; expanded automation and protection; improved wildfire detection; and enhanced operational practices including work related to PSPS events. Costs recorded to the WMBA-E do not include costs recovered through the CEMA, the FRMMA or the WMPMA.
Disposition of Cost Recovery Request	Disposition Letter Dated March 12, 2019	Disposition Letter Dated March 12, 2019	D.20-12-005
Balancing/ Memorandum Account Name	WMPMA	WMPMA	WMBA
MWC Name	Manage Var Bal Acct Processes	Install/Repl Var Bal Acct	Manage Var Bal Acct Processes
MWC	Expense: MWC IG	Capital: MWC 3M	Expense: MWC IG
Line No.		2	က

H. Shared Services and IT

TABLE 10-7
BALANCING AND MEMORANDUM ACCOUNTS INCLUDED IN 2023 RSAR FOR SHARED SERVICES AND IT
(THOUSANDS OF DOLLARS)

2023 Actuals	(FRMMA) \$1,231 (WMPMA) \$1,256	WMPMA \$1,460	\$8,498	
Preliminary Statement	HQ: The purpose of the FRMMA is to record, pursuant to Pub. Util. Code Section 8386 (j), incremental costs of fire risk mitigation work that is not otherwise recovered in PG&E's adopted revenue requirements. Such costs shall include, but are not limited to, expense and capital expenditures for:	protection; improved wildfire detection; enhanced event response capacity, and activities. Costs recorded to the FRMMA will not include costs approved for recovery in PG&E GRCs or recovered through PG&E's CEMA,	PHPMA or other cost recovery mechanisms including the memorandum account approved as part of PG&E's WMP (Pub. Util. Code Section 8386 (e)).	HX: The purpose of the WMPMA is to record, pursuant to SB 901 (Pub. Util. Code Section 8386.4 (a)) and the WMP (also known as the Wildfire Safety Plan) approved by the Commission, incremental costs incurred to implement an approved WMP that are not otherwise recovered in PG&E's adopted revenue requirements. Such costs may include expense and capital expenditures for activities including but not limited to: operational practices, inspection programs, system hardening, EVM, enhanced situational awareness, PSPS, and alternative technologies. Costs recorded to the WMPMA will not include costs approved for recovery in PG&E GRCs or recovered through PG&E's CEMA, FHPMA, FRMMA, or other cost recovery mechanisms.
Disposition of Cost Recovery Request	Disposition Letter Dated March 12, 2019			
Balancing/ Memorandum Account Name	FRMMA/WMPMA	AMPMA	AMAMW	
MWC Name	Manage Var Bal Acct Processes	Procure Materials and Services	Implement Real	Estate Strategy
MWC	Expense: MWC IG	Expense: MWC JL	Capital:	
Line No.	~	2	3	

TABLE 10-7 BALANCING AND MEMORANDUM ACCOUNTS INCLUDED IN 2023 RSAR FOR SHARED SERVICES (THOUSANDS OF DOLLARS) (CONTINUED)

2023 Actuals	Shared Services (Aviation): \$4,702	\$2,471		\$77,990	(\$34,159)	\$2,066	\$3,950
Preliminary Statement	<u>IO</u> : PURPOSE: The purpose of the WMBA-E is to track actual expenses and capital expenditures against adopted amounts and to	record associated expenses and capital revenue requirements for fire risk mitigation work, allocated to the electric distribution and generation functions. These costs include, but are not limited to, expenses and the revenue requirements associated with capital expenditures for: advanced system hardening and resiliency; expanded automation and protection; improved wildfire detection; and enhanced operational practices including work related to PSPS events. Costs recorded to the WMBA-E do not include costs recovered through the CEMA, the FRMMA or the WMPMA.	The WMBA is a two-way balancing account, with a reasonableness review requirement for spending above 115 percent of expense and capital expenditure adopted amounts (reasonableness threshold). Any such amounts are tracked separately for subsequent review and approval by the Commission.	EQ: PURPOSE: The purpose of the GOSMA is to record the expenses associated with the leasing of the SFGO and the Oakland facility during the transition between the facilities, the expenses	associated with moving to the Oakland facility, the capital revenue requirement associated with actual capital expenditures associated with the exercise of the option to purchase the Oakland facility, and a return on the deposits made toward the purchase of the Oakland facility at the authorized cost of capital, pending transfer of these items to functional revenue requirement accounts through the Annual Gas True-Up filings.	<u>EL</u> : The purpose of the GSRRMA is to track and record incremental costs to comply with any new federal or state statutes, regulations and rules, or new or changed interpretation by a regulatory body of statutes, regulations and rules, which are issued between GT&S	funding cycles for which PG&E has not been able to incorporate a forecast of costs into a rate case and which are not already addressed and recorded in another account. This account is comprised of a Main Account, which records backbone transmission and/or storage costs for future recovery from all customers and a LT Subaccount, which records LT costs for future recovery from all customers except Backbone Service-Level end-use customers who do not fund LT activities.
Disposition of Cost Recovery Request	D.23-11-069			D.23-11-069		D.23-11-069	
Balancing/ Memorandum Account Name	WMBA			General Office Sale MA (GOSMA)		Gas Statutes Regulations and Rules Memorandum	Account (GSRRMA)
MWC Name	Miscellaneous Expense	Procure Materials and Services		Manage Property and Buildings	Maintain Buildings Implement Real Estate Strategy	Maintain Applications and Infrastructure	Build Applications and Infrastructure
MWC	Expense: MWC AB	Expense: MWC JL		Expense: MWC EP	Capital: MWC 22 MWC 23	Capital: MWC JV	Capital: MWC 2F
Line No.	4	2		9	7	8	6

I. Administrative and General

TABLE 10-8
BALANCING AND MEMORANDUM ACCOUNTS INCLUDED IN 2023 RSAR FOR ADMINISTRATIVE & GENERAL
(THOUSANDS OF DOLLARS)

2023 Actuals	Other General & Non-Wildfire: \$218.3 Wildfire Self-Insurance: \$344.8
Preliminary Statement	IN: The RTBA is a two-way balancing account and is applicable to electric and gas customers. The purpose of the RTBA – Electric is to track and record actual expenses compared to the adopted expenses for financial risk transfer costs (inclusive of all financial risk transfer costs (inclusive of all financial risk transfer costs such as broker fees and excise taxes) allocated to the electric distribution and generation functions. PG&E is authorized to recover costs associated with the purchase of up to \$1.4 billion of financial risk transfer coverage for commercial policies purchased prior to 2023 in total ("reasonableness threshold"). Amounts in excess of this limit are tracked separately in the Additional Coverage Subaccount for subsequent review and approval by the Commission. The purpose of this limit are tracked separately in the Additional Coverage Subaccount for subsequent review and approval by the Commission. The purpose of this self-insurance program as described in the Wildfire Self-Insurance Subaccount. EK: The purpose of the RTBA – Gas is to track and record actual expenses compared to the adopted expenses for PG&E's financial risk transfer costs (inclusive of all financial risk transfer mechanisms: insurance, reinsurance, CAT bonds, captives and related costs such as broker fees and excise taxes) allocated to the gas distribution, transmission, and storage functions. Effective January 1, 2023, PG&E is authorized to recover up to \$156 million annually for non-wildfire liability commercial insurance policies, plus associated financial risk transfer expenses, with coverage up to a \$700 million coverage target. Amounts in excess of this limit are tracked separately in the Additional Non-Wildfire Expenses Subaccount for subsequent review and approval by the Commission.
Disposition of Cost Recovery Request	D.23-01-005 &
Balancing/ Memorandum Account Name	Risk Transfer Balancing Account (RTBA)
MWC Name	٧×
MWC	Corporate Item – (1) Other General & Non-Wildfire Liability Insurance and (2) Wildfire Liability Self-Insurance
Line No.	-

PACIFIC GAS AND ELECTRIC COMPANY APPENDIX A 2023 GRC IMPUTED REGULATORY VALUES METHODOLOGY

PACIFIC GAS AND ELECTRIC COMPANY APPENDIX A 2023 GRC IMPUTED REGULATORY VALUES METHODOLOGY

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PACIFIC GAS AND ELECTRIC COMPANY APPENDIX A

2023 GRC IMPUTED REGULATORY VALUES METHODOLOGY

A. Introduction

On November 16, 2023, the California Public Utilities Commission (CPUC or the Commission) issued Decision (D.) 23-11-069 (or the Decision) in PG&E's 2023 General Rate Case (GRC). The Decision adopted base revenue requirements for the 2023-2026 GRC period.

The section below describes the methodology used by PG&E to develop expense and capital regulatory values (i.e., imputed adopted amounts).

1. 2023 Test Year

The Decision adopted 2023 test year (TY) Operations and Maintenance (O&M) expenses and capital expenditures at the Major Work Category (MWC) level, and Administrative and General (A&G) expenses by organization and/or by cost type.

The Decision had reductions for certain A&G costs, including for 2023, a reduction of \$141 million for Dental and Medical plans and a reduction of \$145 million Short Term Incentive Plan. Certain A&G costs are capitalized as specified in the Decision. The capitalized portion associated with all A&G reductions is \$132.8 million. The \$132.8 million reduction was then applied to capital expenditures proportionately to derive the 2023 TY imputed adopted capital expenditures based on the Commission's Results of Operations (RO) Decision Model. The capitalized A&G reduction was not applied to specific programs discussed in the Decision, such as System Hardening in Electric Distribution and New Business Connect in Gas Distribution.

The Decision also adopted 50 percent of the increase in Standard & Poor's, Inc. (S&P) IHS Markit escalation rates presented in PG&E's September 6, 2022 update filing in which PG&E used to impute the final

D.23-11-069, Section 8.3.1, p. 605.

D.23-11-069, Section 4.3.13, p. 297.

D.23-11-069, Section 3.13.2, p. 230.

2023 TY O&M expenses and capital expenditures at the MWC level, and A&G expenses by organization and/or by cost type.

2. 2024 to 2026 Post-Test Years

 The Decision adopted 2024, 2025 and 2026 revenue requirements based on applying 50 percent of the increase in S&P's IHS Markit escalation rates presented in PG&E's September 6, 2022 update filing. The Decision RO Model also provides specific MWC/MAT values for adopted bottom-up forecast programs in O&M and capital expenditures. See Table 1 at the end of this document.

To develop imputed regulatory values for 2024 to 2026 that conform to the Decision revenue requirement increase, PG&E used a 2-step process:

Step 1: To develop the adopted values for capital expenditures, PG&E identified bottom-up and non bottom-up capital programs as specified in the Decision RO Model. The Decision RO Model provides adopted values for bottom-up forecast programs at the MWC/MAT level for 2023-2026.

For the non bottom-up forecast capital expenditure programs for 2024-2026, the Decision RO Model applied the adopted escalation rates to escalate the 2023 imputed adopted capital expenditure amounts to 2024-2026.

Step 2: To develop the expense imputed adopted values for 2024-2026, PG&E applied adopted escalation rates in the Decision RO Model to escalate the 2023 imputed adopted amounts to 2024-2026 by MWC for O&M expenses, or by corporate services department and/or cost type for A&G expenses, with the exception of specific bottom-up forecast adopted in the Decision. Specifically, the adopted labor escalation rates provided in Exhibit (PG&E-8)⁵ and the adopted non-labor escalation rates described in D.23-11-069, Section 13.1, p. 740, are included in the Decision RO Model for the calculation of O&M and A&G expenses, net of capitalization values. The 2024-2026 net capitalization values for A&G expenses are grossed up based on 2023 adopted net to gross ratio to align with the GRC cost

D.23-11-069, Section 13.1, p. 740.

⁵ See 2023 GRC D.23-11-069 of PG&E, HR Section 8.3.3.

presentation view by PG&E GRC Exhibits 7, 8, 9, and 10 and by cost type level.

3. Imputation Methodology by Maintenance Activity Type for Gas Distribution, Transmission and Storage, and Electric Distribution

To impute regulatory values at the Maintenance Activity Type (MAT) code level, PG&E applied program-specific MAT code adjustments to PG&E's forecast of for the TY, as appropriate, based on the specification described in the Decision. For any Decision adjustments that were not specifically identified at the MAT code level, PG&E prorated the MWC adjustments to the MAT codes, as applicable, using the MAT code to MWC ratios from PG&E's GRC Application forecast.

4. Units of Work Imputation for Gas Distribution, Transmission and Storage and Electric Distribution

To impute the adopted MAT code units of work for 2023, PG&E divided the 2023 imputed MAT code values by the specific unit cost forecast included in the GRC opening testimony or updated in the Joint Comparison Exhibit, as applicable.

To impute the adopted units of work for 2024 to 2026, PG&E escalated the 2023 unit cost to 2024, 2025 then to 2026 based on the adopted escalation rates in the Decision RO Model. The imputed 2024, 2025 and 2026 units of work were then calculated as the imputed adopted MAT code values divided by the escalated unit cost for a specific year.

5. Gas Distribution, Transmission and Storage Exceptions

The exceptions to the above-described units of work imputation methodology are applicable for the capital MATs listed in Tables 1 and 2 below. The Decision adopted specific bottom-up forecasts for these programs.

Other exceptions include when the Decision adopted a lower unit cost than was included in PG&E's GRC opening testimony. In these cases, if a specific number of units of work was adopted, the unit cost was calculated by dividing the imputed adopted MAT code values by the adopted units of

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work. If a specific unit cost was adopted which was lower than the unit cost included in PG&E's GRC opening testimony, the units of work were calculated by dividing the imputed adopted MAT code values by the adopted unit cost for a specific year.

6. Electric Distribution Exceptions

One exception for Electric Distribution to the above-described units of work imputation is MAT Code 08W related to PG&E's Wildfire System Hardening program. The Decision adopted specific bottom-up forecast for System Hardening.

Other exceptions are for MATs where the Decision reduced PG&E's forecast by adopting a lower unit cost listed in Table 3. In these cases, the imputed adopted units are equal to the forecast units for 2023 and follow the methodology above for 2024 through 2026.

7. Risk Assessment and Mitigation Phase Regulatory Values Imputation

The imputed regulatory values by Risk Mitigation or Control were developed in alignment with PG&E's forecast. For 2023, PG&E applied any specific Risk Mitigation or Control Decision adjustments to PG&E's forecast, as appropriate. For any Decision adjustments that were not specifically identified, PG&E applied the reductions at the MWC/MAT proportionally to all Risk Mitigations or Controls based on the weighting of the Risk Assessment and Mitigation Phase (RAMP) forecast against the total MWC/MAT or Department forecast.

The imputed regulatory values for 2024-2026 were developed using the same methods described in the "2024 to 2026 Post-Test Years" section for consistency to the overall GRC imputation.

For Electric Distribution and Gas Distribution, Transmission and Storage, Risk Mitigations or Controls typically corresponded to 100 percent of specific MAT codes. The imputed regulatory values at MAT level were directly applied to the specific Risk Mitigations or Controls. In certain instances where the MAT codes are split across multiple risk mitigations and/or controls, the imputed amounts were developed proportionately based on the forecast weighting of the specific programs. See Table 3 at the end of this document.

The imputed units for Risk Mitigations or Controls were developed using the same methodology described under "Units of Work Imputation for Gas Distribution, Transmission and Storage and Electric Distribution."

TABLE 1 2023 GRC ADOPTED BOTTOM-UP FORECAST PROGRAMS FOR 2024-2026

Line	Expense/		
No.	Capital	Program	MWC/MAT Codes
1	Expense	Diablo Canyon Power Plant	MWCs: AB, AK, BP, BQ, BR, BS, BT, BU, BV, EO, IG, OM, OS,
2	Expense	Non-Tariffed Products and Services	MWC EL
3	Capital	StanPac Capital	MAT 44A
4	Capital	Los Medanos Compressor Replacement	MAT 76X
5	Capital	WELL Drilling	MAT 3L1
6	Capital	WELL Reworks and Retrofits	MAT 3L3
7	Capital	Controls and Monitoring	MAT 3L5
8	Capital	Gas Distribution New Business	MWC 29
9	Capital	Wildfire System Hardening	MAT 08W
10	Capital	Natural Gas & Solar Capital Expenditures	MWCs: 2S, 2T, 3A, 3B, 05
11	Capital	Nuclear Operations Capital Expenditures	MWCs: 05, 20
12	Capital	Hydroelectric Costs	MWCs: 05, 11, 12, 2L, 2M, 2N, 2P,3H
13	Capital	Corporate Real Estate	MWCs: 22, 23

TABLE 2 GAS DISTRIBUTION, TRANSMISSION AND STORAGE IMPUTED ADOPTED UNIT EXCEPTIONS

Line	Expense/			MAT
No.	Capital	Program	Methodology	Codes
1	Capital	WELL – Drilling	The adopted units were spread over 3 years to reflect what was achievable in each year.	3L1
2	Capital	WELL – Reworks	The Decision adopts \$3.03 million unit cost in 2020 dollars. The unit cost was escalated to impute 2023-2026 unit costs in nominal dollars. The imputed dollar forecast is divided by escalated unit costs to impute units.	3L3
3	Capital	GT Elect Upgrade – Hinkley & Topock	One unit is adopted for the entire 2023-2026 period and is reflected at the end of rate case cycle (i.e., when it is projected to be completed).	76P
4	Capital	Compressor Replacements	One unit is adopted for the entire 2023-2026 period and is reflected at the end of rate case cycle (i.e., when it is projected to be completed).	76X

TABLE 3 ELECTRIC DISTRIBUTION IMPUTED ADOPTED UNIT EXCEPTIONS

Line No.	Expense/ Capital	Program	Methodology	MAT Codes
1	Expense	OH General CM Tag	The Decision adopts TURN's unit cost. Adopted inflation escalation adjusted unit cost is \$914. The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	KAA
2	Capital	OH General Replacements	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$7,100. The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	2AA
3	Capital	Expulsion Fuse Replacement	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$14,026 The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	2AP
4	Capital	Pole Replacements	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$22,050. The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	07D
5	Capital	Overloaded Pole Replacements	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$28,596. The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	070
6	Capital	Pole Replacements of Tree Attachments	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$11,682. The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	07C
7	Capital	Temperature Alarm Devices	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$3,852. The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	56T

On November 16, 2023, the CPUC issued Decision D.23-11-069 (or the Decision) in PG&E's 2023 GRC. The Decision adopted base revenue requirements for the 2023-2026 GRC period.

The section below describes the methodology used by PG&E to develop expense and capital regulatory values (i.e., imputed adopted amounts).

8. 2023 Test Year

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The Decision adopted 2023 TY O&M expenses and capital expenditures at the MWC level, and A&G expenses by organization and/or by cost type.

The Decision had reductions for certain A&G costs, including for 2023, a reduction of \$141 million for Dental and Medical plans and a reduction of

\$145 million Short Term Incentive Plan. Certain A&G costs are capitalized as specified in the Decision. The capitalized portion associated with all A&G reductions is \$132.8 million. The \$132.8 million reduction was then applied to capital expenditures proportionately to derive the 2023 TY imputed adopted capital expenditures based on the Commission's RO Decision Model. The capitalized A&G reduction was not applied to specific programs discussed in the Decision, such as System Hardening in Electric Distribution and New Business Connect in Gas Distribution.

The Decision also adopted 50 percent of the increase in S&P's IHS Markit escalation rates presented in PG&E's September 6, 2022 update filing in which PG&E used to impute the final 2023 TY O&M expenses and capital expenditures at the MWC level, and A&G expenses by organization and/or by cost type.

9. 2024 to 2026 Post-Test Years

The Decision adopted 2024, 2025 and 2026 revenue requirements based on applying 50 percent of the increase in S&P's IHS Markit escalation rates presented in PG&E's September 6, 2022 update filing. 10 The Decision RO Model also provides specific MWC/MAT values for adopted bottom-up forecast programs in O&M and capital expenditures. See Table 1 at the end of this document.

To develop imputed regulatory values for 2024 to 2026 that conform to the Decision revenue requirement increase, PG&E used a 2-step process:

Step 1: To develop the adopted values for capital expenditures, PG&E identified bottom-up and non bottom-up capital programs as specified in the Decision RO Model. The Decision RO Model provides adopted values for bottom-up forecast programs at the MWC/MAT level for 2023-2026.

For the non bottom-up forecast capital expenditure programs for 2024-2026, the Decision RO Model applied the adopted escalation rates to

D.23-11-069, Section 8.3.1, p. 605.

D.23-11-069, Section 4.3.13, p. 297.

D.23-11-069, Section 3.13.2, p. 230.

D.23-11-069, Section 13.1, p. 740.

escalate the 2023 imputed adopted capital expenditure amounts to 2024-2026.

Step 2: To develop the expense imputed adopted values for 2024-2026, PG&E applied adopted escalation rates in the Decision RO Model to escalate the 2023 imputed adopted amounts to 2024-2026 by MWC for O&M expenses, or by corporate services department and/or cost type for A&G expenses, with the exception of specific bottom-up forecast adopted in the Decision. Specifically, the adopted labor escalation rates provided in Exhibit (PG&E-8)¹¹ and the adopted non-labor escalation rates described in D.23-11-069, Section 13.1, p. 740, are included in the Decision RO Model for the calculation of O&M and A&G expenses, net of capitalization values. The 2024-2026 net capitalization values for A&G expenses are grossed up based on 2023 adopted net to gross ratio to align with the GRC cost presentation view by PG&E GRC Exhibits 7, 8, 9, and 10 and by cost type level.

10. Imputation Methodology by Maintenance Activity Type for Gas Distribution, Transmission and Storage, and Electric Distribution

To impute regulatory values at the MAT code level, PG&E applied program-specific MAT code adjustments to PG&E's forecast ¹² for the TY, as appropriate, based on the specification described in the Decision. For any Decision adjustments that were not specifically identified at the MAT code level, PG&E prorated the MWC adjustments to the MAT codes, as applicable, using the MAT code to MWC ratios from PG&E's GRC Application forecast.

11. Units of Work Imputation for Gas Distribution, Transmission and Storage and Electric Distribution

To impute the adopted MAT code units of work for 2023, PG&E divided the 2023 imputed MAT code values by the specific unit cost forecast included in the GRC opening testimony or updated in the Joint Comparison Exhibit, as applicable.

¹¹ See 2023 GRC D.23-11-069 of PG&E, HR Section 8.3.3.

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To impute the adopted units of work for 2024 to 2026, PG&E escalated the 2023 unit cost to 2024, 2025 then to 2026 based on the adopted escalation rates in the Decision RO Model. The imputed 2024, 2025 and 2026 units of work were then calculated as the imputed adopted MAT code values divided by the escalated unit cost for a specific year.

12. Gas Distribution, Transmission and Storage Exceptions

The exceptions to the above-described units of work imputation methodology are applicable for the capital MATs listed in Tables 1 and 2 below. The Decision adopted specific bottom-up forecasts for these programs.

Other exceptions include when the Decision adopted a lower unit cost than was included in PG&E's GRC opening testimony. In these cases, if a specific number of units of work was adopted, the unit cost was calculated by dividing the imputed adopted MAT code values by the adopted units of work. If a specific unit cost was adopted which was lower than the unit cost included in PG&E's GRC opening testimony, the units of work were calculated by dividing the imputed adopted MAT code values by the adopted unit cost for a specific year.

Electric Distribution Exceptions: One exception for Electric Distribution to the above-described units of work imputation is MAT Code 08W related to PG&E's Wildfire System Hardening program. The Decision adopted specific bottom-up forecast for System Hardening.

Other exceptions are for MATs where the Decision reduced PG&E's forecast by adopting a lower unit cost listed in Table 3. In these cases, the imputed adopted units are equal to the forecast units for 2023 and follow the methodology above for 2024 through 2026.

13. Risk Assessment and Mitigation Phase Regulatory Values Imputation

The imputed regulatory values by Risk Mitigation or Control were developed in alignment with PG&E's forecast. For 2023, PG&E applied any specific Risk Mitigation or Control Decision adjustments to PG&E's forecast, as appropriate. For any Decision adjustments that were not specifically identified, PG&E applied the reductions at the MWC/MAT proportionally to

all Risk Mitigations or Controls based on the weighting of the RAMP forecast against the total MWC/MAT or Department forecast.

The imputed regulatory values for 2024-2026 were developed using the same methods described in the "2024 to 2026 Post-Test Years" section for consistency to the overall GRC imputation.

For Electric Distribution and Gas Distribution, Transmission and Storage, Risk Mitigations or Controls typically corresponded to 100 percent of specific MAT codes. The imputed regulatory values at MAT level were directly applied to the specific Risk Mitigations or Controls. In instances where the MAT codes are split across multiple risk mitigations and/or controls, the imputed amounts were developed proportionately based on the forecast weighting of the specific programs. See Table 3 at the end of this document.

The imputed units for Risk Mitigations or Controls were developed using the same methodology described under "Units of Work Imputation for Gas Distribution, Transmission and Storage and Electric Distribution."

TABLE 4 2023 GRC ADOPTED BOTTOM-UP FORECAST PROGRAMS FOR 2024-2026

Line	Expense/	_	
No.	Capital	Program	MWC/MAT Codes
1	Expense	Diablo Canyon Power Plant	MWCs: AB, AK, BP, BQ, BR, BS, BT, BU, BV, EO, IG, OM, OS,
2	Expense	Non-Tariffed Products and Services	MWC EL
3	Capital	StanPac Capital	MAT 44A
4	Capital	Los Medanos Compressor Replacement	MAT 76X
5	Capital	WELL Drilling	MAT 3L1
6	Capital	WELL Reworks and Retrofits	MAT 3L3
7	Capital	Controls and Monitoring	MAT 3L5
8	Capital	Gas Distribution New Business	MWC 29
9	Capital	Wildfire System Hardening	MAT 08W
10	Capital	Natural Gas & Solar Capital Expenditures	MWCs: 2S, 2T, 3A, 3B, 05
11	Capital	Nuclear Operations Capital Expenditures	MWCs: 05, 20
12	Capital	Hydroelectric Costs	MWCs: 05, 11, 12, 2L, 2M, 2N, 2P,3H
13	Capital	Corporate Real Estate	MWCs: 22, 23

TABLE 5
GAS DISTRIBUTION, TRANSMISSION AND STORAGE IMPUTED ADOPTED UNIT EXCEPTIONS

Line	Expense/	D	Mathadalassi	MAT
No.	Capital	Program	Methodology	Codes
1	Capital	WELL – Drilling	The adopted units were spread over 3 years to reflect what was achievable in each year.	3L1
2	Capital	WELL – Reworks	The Decision adopts \$3.03 million unit cost in 2020 dollars. The unit cost was escalated to impute 2023-2026 unit costs in nominal dollars. The imputed dollar forecast is divided by escalated unit costs to impute units.	3L3
3	Capital	GT Elect Upgrade – Hinkley & Topock	One unit is adopted for the entire 2023-2026 period and is reflected at the end of rate case cycle (i.e., when it is projected to be completed).	76P
4	Capital	Compressor Replacements	One unit is adopted for the entire 2023-2026 period and is reflected at the end of rate case cycle (i.e., when it is projected to be completed).	76X

TABLE 6 ELECTRIC DISTRIBUTION IMPUTED ADOPTED UNIT EXCEPTIONS

Line	Expense/	D	Mathadalam	MAT
No.	Capital	Program	Methodology	Codes
1	Expense	OH General CM Tag	The Decision adopts TURN's unit cost. Adopted inflation escalation adjusted unit cost is \$914. The imputed 2024-2026 unit costs are calculated based on adopted post TY escalation.	KAA
2	Capital	OH General Replacements	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$7,100. The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	2AA
3	Capital	Expulsion Fuse Replacement	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$14,026 The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	2AP
4	Capital	Pole Replacements	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$22,050. The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	07D
5	Capital	Overloaded Pole Replacements	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$28,596. The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	070
6	Capital	Pole Replacements of Tree Attachments	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$11,682. The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	07C
7	Capital	Temperature Alarm Devices	The Decision adopts Cal Advocates' unit cost. Adopted inflation escalation adjusted unit cost is \$3,852. The imputed 2024-2026 unit costs are calculated based on adopted post-TY escalation.	56T

TABLE 7 RAMP MATS WITH MULTIPLE MITIGATION/CONTROL SPLITS

Line		Expense/	
No.	Functional Area	Capital	MAT Codes
			MATs: DFB, FIO, FIQ,
1	Gas Distribution, Transmission and Storage	Expense	JQD, JQL
2	Gas Distribution, Transmission and Storage	Capital	MAT 27A
3	Electric Distribution	Expense	MATs: AB#, AB6, BAF, BHE, FZA, GC1, GC2, IG#
4	Electric Distribution	Capital	MATs: 21A, 49I, 49T, 2CC, 56N, 48H, 54A
			MATs: DFB, FIO, FIQ,
5	Gas Distribution, Transmission and Storage	Expense	JQD, JQL
6	Gas Distribution, Transmission and Storage	Capital	MAT 27A
7	Electric Distribution	Expense	MATs: AB#, AB6, BAF, BHE, FZA, GC1, GC2, IG#
8	Electric Distribution	Capital	MATs: 21A, 49I, 49T, 2CC, 56N, 48H, 54A

PACIFIC GAS AND ELECTRIC COMPANY APPENDIX B 2023-2026 IMPUTED REGULATORY VALUES BY FUNCTIONAL AREA

PACIFIC GAS AND ELECTRIC COMPANY APPENDIX B 2023-2026 IMPUTED REGULATORY VALUES BY FUNCTIONAL AREA

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Line No.	Exhibit	MWC	MAT	MAT Description	2023 Imputed Adopted	2024 Imputed Adopted	2025 Imputed Adopted	2026 Imputed Adopted
	Gas Distri	bution (Ex	hibit 3)					
1	3	AB	AB#	Not assigned	45,967	46,208	46,972	47,865
2	3	AB	AB7	Safety, Qual, & Contract Mgmt	531	534	543	553
3	3	DD	DDD	Pilot Relight	12,170	12,585	13,020	13,471
4	3	DD	DDE	Appliance Adjs	1,153	1,192	1,234	1,276
5	3	DD	DDF	Gas Fumigation Activity	3,595	3,718	3,846	3,979
6	3	DD	DDG	Gas Leaks & Emergencies	31,401	32,472	33,594	34,758
7	3	DD	DDK	Gas Start	5,142	5,318	5,501	5,692
8	3	DD	DDL	Gas Stop	4,595	4,751	4,916	5,086
9	3	DE	DEC	Downgrade No Repair	3,522	3,577	3,661	3,751
10	3	DE	DE#	Not assigned	3,037	3,084	3,156	3,235
11	3	DE	DEA	Leak Survey	10,307	10,467	10,712	10,978
12	3	DE	DEB	Special Leak Survey	2,810	2,854	2,921	2,993
13	3	DE	DED	Rechecks	2,562	2,602	2,663	2,729
14	3	DE	DEE	Customer Calls	789	801	820	840
15	3	DE	DEF	Advanced MobileTechnology	12,396	12,589	12,884	13,203
16	3	DE	DEH	GD Capacity Uprates	2,435	2,475	2,534	2,598
17	3	DF	DF#	Not assigned	2,191	2,256	2,327	2,402
18	3	DF	DFA	Locate and Mark	75,272	77,496	79,930	82,497
19	3	DF	DFB	Locate and Mark - Standby	448	461	476	491
20	3	DG	DGA	Cath Protect - Monitoring	4,189	4,266	4,372	4,487
21	3	DG	DGB	Cath Protect-Troubleshoot	5,017	5,109	5,236	5,374
22	3	DG	DGC	Cath Protect - Rectifier Maint	633	645	661	678
23	3	DG	DGD	Cath Protect - Resurvey	3,796	3,865	3,962	4,065
24	3	DG	DGE	G:Isolated Steel Svc Evaluatn	6,548	6,667	6,834	7,014
25	3	DG	DGG	Install casing test stations	3,250	3,309	3,392	3,481
26	3	DG	DGH	Casing mitigate < than 100ft	4,263	4,341	4,450	4,566
27	3	DN	DN2	Gas Qualifications	2,726	2,742	2,788	2,842
28	3	EX	EXB	MPP Protections	12,709	13,133	13,582	14,047
29	3	FG	FGA	Gas Distribution Control Centr	8,862	9,126	9,418	9,723
30	3	FG	FGB	Op Distr-G Mns/Svcs	968	997	1,029	1,062
31	3	FG	FGC	Op Distr-G Reg Genl	180	186	192	198
32	3	FH	FH#	Not assigned	1,212	1,236	1,269	1,303
33	3	FH	FHA	Maint-Prev-G Mains	2,855	2,912	2,988	3,069
34	3	FH	FHB	Maint-Prev-G Reg Sta	5,162	5,264	5,401	5,548
35	3	FH	FHC	Maint-Prev-G Farm Tap	422	431	442	454
36	3	FH	FHE	Maint-Prev-G Svcs	4,808	4,904	5,032	5,168
37	3	FH	FHG	Maint-Prev-G Main VIv	2,504	2,553	2,620	2,691
38	3	FH	FHI	Maint-Corr G Svc Valves	8,267	8,432	8,651	8,886
39								4,175
40	3	FH	FHJ FHK	Gas Non-Recurring Projects GD Corrosion AC Inspections	3,884 145	3,961 149	4,064	158
	3	FH		Atmospheric Corsn Main Rep			2 420	
41	3	FH	FHL		3,243	3,330 12,832	3,430	3,535
42		FH	FHM	Atmospheric Corsn Serv Rep	12,499	-	13,218	13,624
43	3	FH	FHN	Atmospheric Corsn Reg Stn Rprs	1,051	1,079	1,111	1,145
44 45	3	FH FH	FHO FHP	PM SCADA CM SCADA	1,501 777	1,531 792	1,571 813	1,614 835

					2023	2024	2025	2026
					Imputed	Imputed	Imputed	Imputed
Line No.	Exhibit	MWC	MAT	MAT Description	Adopted	Adopted	Adopted	Adopted
	Gas Distri	bution (Ex	hibit 3)					
46	3	FH	FHR	Not assigned	1,853	1,889	1,939	1,991
47	3	FI	FI#	Not assigned	4,149	4,218	4,320	4,429
48	3	FI	FIB	Maint-Corr-G Reg Genl	2,301	2,369	2,444	2,522
49	3	FI	FIC	Maint-Corr-G Farm Tap	995	1,024	1,057	1,091
50	3	FI	FIF	Maint-Corr-G Main VIv	395	407	420	433
51	3	FI	FIG	Maint-Corr-G Main Lk	35,096	35,680	36,540	37,467
52	3	FI	FIH	Maint-Corr_G_Svc Leak_AG	4,098	4,166	4,266	4,374
53	3	FI	FII	Maint-Corr-G Cath Prot	6,233	6,341	6,497	6,664
54	3	FI	FIJ	Maint-Corr G Main Dig-in	996	1,012	1,037	1,063
55	3	FI	FIK	Maint-Corr G Svc Dig-in	1,596	1,623	1,662	1,704
56	3	FI	FIM	Major Event-Distribution Gas	490	498	510	523
57	3	FI	FIO	Gas Overbuild - G	854	868	889	912
58	3	FI	FIP	Maint-Corr_G_Svc Leak_BG	31,649	32,176	32,952	33,787
59	3	FI	FIQ	Atmospheric Corrosion Monitorg	1,356	1,379	1,412	1,448
60	3	FI	FIR	Tee-Cap Replacement Program	2,209	2,246	2,300	2,358
61	3	FI	FIS	Leak Survey Meter Repair	9,658	9,819	10,056	10,311
62	3	GF	GFO	Mapping Support-Distribution	4,307	4,415	4,541	4,676
63	3	GG	GG#	Not assigned	2,523	2,610	2,701	2,795
64	3	GG	GGA	Gas System Planning_GSO	6,924	7,162	7,411	7,669
65	3	GM	GMC	GD LNG/CNG Station	4,593	4,671	4,785	4,907
66	3	GZ	GZA	Gas R&D and Deployment	4,000	4,040	4,117	4,206
67	3	HY	HYI	G Meter Atmospheric Corrosion	920	952	985	1,020
68	3	JQ	JQA	DIMP Leak Survey	861	886	914	943
69	3	JQ	JQC	Mark and Locate Program	3,582	3,673	3,782	3,895
70	3	JQ	JQD	DIMP Emergent Work	4,162	4,285	4,421	4,563
71	3	JQ	JQE	Plastic Program	331	341	351	363
72	3	JQ	JQG	Fitting Mitigation Program	2,432	2,503	2,583	2,666
73	3	JQ	JQK	Cross Bored Sewer Project	13,295	13,686	14,122	14,577
74	3	JQ	JQL	DIMP Program Management	4,868	5,012	5,171	5,337
75	3	JV	JV#	Not assigned	1,286	1,291	1,312	1,337
76	3	JV	JVA	ISvcs: Wrkplce End User SW Ste	12,201	12,256	12,455	12,686
77	3	LK	LK#	Not assigned	187	190	195	201
78	3	LK	LK7	WRO Main Relocations - G	1,829	1,859	1,909	1,964
79	3	LK	LK8	WRO Relocation Partial Svc - G	1,135	1,154	1,185	1,219
80	3	LK	LK9	WRO Raise Frame & Covers - G	560	569	584	601
81	3	LK	LKL	WRO Svc Cutoff @ Prop Line - G	325	330	339	349
82	3	LK	LKN	WRO Rule 13 G Temp Pwr < 1yr G	0	0	0	0
83	3	LK	LKO	WRO Pothole 3rd Pty Conflict-G	1,203	1,223	1,257	1,293
84	3	LK	LKQ	WRO Gas Sup & Wk Around SF - G	1,950	1,982	2,036	2,094
85	3	ОМ	OM#	Not assigned	13,394	13,773	14,199	14,648
86	3	OS	OS#	Not assigned	27,380	28,169	29,050	29,976
87	Sub-total	Gas Distri	bution		539,971	551,981	567,092	583,204

					2023	2024	2025	2026
					Imputed	Imputed	Imputed	Imputed
Line No.	Exhibit	MWC	MAT	MAT Description	Adopted	Adopted	Adopted	Adopted
	Gas Trans	mission (E	xhibit 3)		· ·			-
1	3	34	34A	Stan-Pac Expense	2,738	2,738	2,770	2,814
2	3	AB	AB#	Not assigned	19,267	19,368	19,689	20,063
3	3	AB	AB7	Safety, Qual, & Contract Mgmt	795	799	813	828
4	3	АН	AH#	Not assigned	2,266	2,276	2,309	2,351
5	3	АН	AH1	WELL - Integrity Assessments	9,807	9,851	9,995	10,174
6	3	АН	AH2	WELL - Reworks	3,428	3,443	3,493	3,556
7	3	АН	AH3	WELL - Other	2,832	2,845	2,887	2,938
8	3	АН	AH4	Gill Ranch Operations & Maint	3,189	3,202	3,248	3,305
9	3	AK	AKA	Haz Waste Mgmt	3,157	3,196	3,261	3,336
10	3	CM	CMA	GT&S Operations	15,573	16,032	16,536	17,069
11	3	CM	CMB	ElecPwr CompFuel & Oth Elec Eq	27,881	28,702	29,606	30,560
12	3	CR	CRA	Hazard Waste Disp & Transp	716	716	724	736
13	3	CX	CX#	Not assigned	(0)	(0)	(0)	(0)
14	3	CX	CXA	GT&S Marketing/Sales/Stratgy	5,787	5,975	6,175	6,383
15	3	DF	DFA	Locate and Mark	1,346	1,386	1,430	1,476
16	3	DF	DFB	Locate and Mark - Standby	5,421	5,581	5,756	5,941
17	3	DN	DN2	Gas Qualifications	1,932	1,943	1,975	2,013
18	3	GF						· · · · · · · · · · · · · · · · · · ·
			GFP	Mapping Support-Transmission	5,563	5,702	5,864	6,039
19	3	GJ	GJA	Electrical Interference - AC	1,539	1,553	1,581	1,614
20	3	GJ	GJB	Atmospheric Corrosion	3,842	3,876	3,945	4,028
21	3	GJ	GJC	Cathodic Protection Expense	414	418	426	434
22	3	GJ	GJD	Test Stations	247	249	254	259
23	3	GJ	GJE	Close Interval Survey (CIS)	4,142	4,178	4,253	4,342
24	3	GJ	GJF	Electrical Interference - DC	802	809	823	841
25	3	GJ	GJH	Internal Corrosion	6,066	6,120	6,228	6,360
26	3	GJ	GIJ	Low Read Investigations	291	294	299	305
27	3	GJ	GJK	Corrosion Support	2,865	2,890	2,942	3,004
28	3	GJ	GJM	Casings	4,277	4,314	4,391	4,484
29	3	GM	GMD	LNG / CNG	2,651	2,699	2,764	2,836
30	3	GZ	GZA	Gas R&D and Deployment	3,861	3,899	3,974	4,060
31	3	HP	HPA	TIMP - Other	9,804	9,881	10,050	10,256
32	3	HP	HPB	Traditional ILI Runs	33,562	33,823	34,402	35,108
33	3	HP	HPC	ECDA Indirect Inspections	7,383	7,440	7,567	7,723
34	3	HP	HPE	Integrity Manage Leak Survey	276	278	283	289
35	3	HP	HPF	Hydrostatic Testing - IM	21,326	21,492	21,859	22,308
36	3	HP	HPI	ILI Direct Exam and Repair	48,186	48,561	49,392	50,406
37	3	HP	HPJ	ICDA Indirect Inspections	718	724	736	752
38	3	HP	HPK	SCCDA Indirect Inspections	1,745	1,759	1,789	1,826
39	3	HP	HPM	Repairs / Replace < '50ft	4,446	4,481	4,558	4,651
40	3	HP	HPN	ECDA Direct Examinations	36,825	37,112	37,747	38,522
41	3	HP	HPO	ICDA Direct Examinations	12,666	12,764	12,983	13,249
42	3	HP	HPP	SCCDA Direct Examinations	17,035	17,168	17,462	17,820
43	3	HP	HPR	Non-Traditional ILI Runs	14,393	14,505	14,753	15,056
44	3	HP	HPS	Geo-Hazard Studies	3,014	3,038	3,090	3,153
45	3	HP	HPT	Root Cause Analysis	2,871	2,893	2,943	3,003
46	3	HP	HPU	TIMP Direct Examinations	25,660	25,860	26,302	26,842
47	3	JO	J01	PM Scada Maintenance	349	356	366	376
48	3	10	JO2	CM Scada Maintenance	251	257	264	271
49	3	JO	JOA	Cath Prot Rectifier Maintenanc	118	121	124	127
50	3	10	JOB	Cath Prot Monitoring	1,290	1,317	1,352	1,389

					2023	2024	2025	2026
					Imputed	Imputed	Imputed	Imputed
Line No.	Exhibit	MWC	MAT	MAT Description	Adopted	Adopted	Adopted	Adopted
	Gas Trans	mission (E	xhibit 3)					
51	3	JO	JOC	Cath Prot Troubleshoot	813	830	852	875
52	3	JO	JOE	Ground Leak Survey	990	1,011	1,037	1,066
53	3	JO	JOF	Requird Ground Pipeline Patrol	1,037	1,059	1,087	1,117
54	3	JO	JOG	PM G Regulator General	3,957	4,042	4,147	4,263
55	3	JO	JOH	PM Gas Pipeline Valve Manual	1,495	1,527	1,567	1,611
56	3	JO	JOI	PM Gas Pipeline Valve Automate	40	40	41	43
57	3	JO	JOJ	Gas Holders Maintenance	127	129	133	136
58	3	JO	JOK	Oper Tranmission Pipelines	731	747	766	787
59	3	JO	JOL	Oper Transmission Regl Station	461	471	484	497
60	3	JO	JOM	CM G Regl Genl	1,117	1,141	1,171	1,204
61	3	JO	JON	CM Gas Pipeline Valve Manual	950	970	996	1,024
62	3	JO	100	CM Gas Pipeline Valve Automate	222	227	233	239
63	3	JO	JOP	CM G Main Lk	11,169	11,408	11,707	12,035
64	3	JO	JOQ	Cath Protection Corr Maintnc	358	366	375	386
65	3	JO	JOR	Leak Rechecks	264	270	277	285
66	3	JO	JOS	Pipeline Marker Maintenance	1,762	1,800	1,847	1,898
67	3	JO	JOT	Vegetation Management	1,522	1,554	1,595	1,639
68	3	JO	JOV	Requird Aerial Pipeline Patrol	4,823	4,926	5,055	5,196
69	3	JO	JOW	Aerial Leak Survey	2,494	2,547	2,614	2,687
70	3	10	JOX	PM Meter Maintenance	1,949	1,990	2,042	2,099
71	3	10	JOY	CM Meter Maintenance	289	295	303	311
72	3	10	JOZ	Atmospheric Corrosion Inspect	500	511	524	539
73	3	JP	JPA	PM StorCompStat Piping Assets	981	1,001	1,026	1,055
73	3	JP	JPB	CM StorCompStat Piping Assets	473	483	495	509
75	3	JP	JPC	PM StorCompStat GasProcess	1,920	1,959	2,009	2,065
76	3	JP	JPD	PM StorCompStat GasCompressor	1,810	1,847	1,895	1,947
77	3	JP	JPE	PM StorCompStat Support	2,280	2,327	2,387	2,452
78	3	JP	JPG	CM StorCompStat GasProcess	984	1,004	1,030	1,058
79	3	JP	JPH	CM StorCompStat GasFrocess CM StorCompStat GasCompress	2,071	2,114	2,168	2,228
80	3	JP	JPI					
				CM StorCompStat Support	1,525	1,557	1,597	1,641
81	3	JP	JPK	PM Power Units	139	142	146	150
82	3	JP	JPL	CM Power Units	277	283	290	298
83	3	JP	JPN	Station Operations	6,027	6,151	6,308	6,482
84	3	JP	JPO	PM Storage Wells	570	582	597	613
85	3	JP	JPP	CM Storage Wells	81	83	85	87
86	3	JP	JPQ	CARB Leak Survey	3,270	3,338	3,423	3,517
87	3	JP	JPR	CARB Leak Repairs	2,545	2,597	2,664	2,737
88	3	JT 	JT0	Public Awareness	3,437	3,474	3,540	3,619
89	3	JT	JT1	Engineering Support	2,572	2,600	2,650	2,709
90	3	JT	JT2	Water and Levee Crossings	1,387	1,402	1,428	1,460
91	3	JT	JT3	Fault Crossings	1,076	1,088	1,109	1,133
92	3	JT	JT4	Shallow and Exposed Pipe	2,751	2,781	2,834	2,897
93	3	JT	JT6	Pipe Replacements - (<50Ft)	11,284	11,406	11,624	11,882
94	3	JT	JT8	Gas Quality Assessment - Exp	2,124	2,146	2,187	2,235
95	3	JT	JT9	Hydrostatic Tstng - Class Lctn	899	909	927	947
96	3	JT	JTA	Pipeline WRO Expense	635	657	697	745
97	3	JT	JTB	Pipeline Repair	6,835	6,908	7,041	7,197
98	3	JT	JTD	Pipeline Other	18,985	19,190	19,557	19,991
99	3	JT	JTH	Permits & Fees Projects	7,906	7,992	8,145	8,325
100	3	JT	JTK	Vegetation Manage Project	16,877	17,059	17,386	17,772

Line No.	Exhibit	MWC	MAT	MAT Description	2023 Imputed Adopted	2024 Imputed Adopted	2025 Imputed Adopted	2026 Imputed Adopted
	Gas Trans	mission (E	xhibit 3)					
101	3	JT	JTL	FIMP Risk Management	2,791	2,820	2,873	2,936
102	3	JT	JTM	Uprates	998	1,009	1,028	1,051
103	3	JT	JTO	Encroachments Structures & ROW	1,265	1,278	1,303	1,332
104	3	JT	JTQ	Class Location Studies	2,185	2,209	2,251	2,301
105	3	JT	JTR	Valve Program	1,371	1,386	1,412	1,443
106	3	JT	JTT	Geo-Hazard Mitigations	127	129	131	134
107	3	JT	JTV	Station Strength Test Exp C&P	2,279	2,303	2,346	2,398
108	3	JT	JTW	Routine Spend M&C - Expense	4,676	4,725	4,814	4,920
109	3	JT	JTY	Routine Spend C&P Expense	8,777	8,868	9,035	9,233
110	3	JV	JV#	Not assigned	857	861	875	891
111	3	JV	JVA	ISvcs: Wrkplce End User SW Ste	2,346	2,357	2,395	2,440
112	3	LV	LV2	Engineering Crtcl Assmnt 2	5,474	5,547	5,662	5,796
113	3	MC	MC1	Hydrostatic Tstng - BA	(0)	(0)	(0)	(0)
114	3	OM	OM#	Not assigned	8,664	8,909	9,184	9,474
115	3	OS	OS#	Not assigned	10,400	10,700	11,035	11,387
116	Sub-total	Gas Trans	mission		575,614	582,924	594,872	608,702

					2023	2024	2025	2026
					Imputed	Imputed	Imputed	Imputed
Line No.	Exhibit	MWC	MAT	MAT Description	Adopted	Adopted	Adopted	Adopted
	Electric D	istributior	ı (Exhibit 4	1)				
1	4	AB	AB#	Not assigned	21,505	21,903	22,349	22,865
2	4	AB	AB6	EPR Expense	165,138	168,196	171,619	175,584
3	4	BA	BAF	Genl Operate	1,822	1,857	1,896	1,942
4	4	BA	BAH	FLISR Maintenance	490	499	510	522
5	4	ВН	BHE	FAS Emergency Resp - OH Elect	117,184	119,437	121,967	124,924
6	4	GC	GC2	El DSub-Major Emerg_Corr Maint	868	885	903	925
7	4	FZ	FZA	Genl Engineer	5,630	5,776	5,933	6,104
8	4	IG	IG#	Not assigned	73,630	74,450	75,485	76,876
9	4	KA	KAT	Remote Grid SPS Maintenance	1,039	1,041	1,047	1,059
10	4	AB	AB6	EPR Expense	27,970	28,300	28,701	29,212
11	4	ВН	BH#	Not assigned	244	250	256	263
12	4	ВН	внв	CM-E OH	22,012	22,532	23,098	23,732
13	4	ВН	внс	CM-E UG	24,855	25,442	26,081	26,797
14	4	ВН	BHD	BHD: Damage Claims Expense	1,630	1,669	1,711	1,758
15	4	ВН	BHE	FAS Emergency Resp - OH Elect	22,666	23,201	23,784	24,437
16	4	BH	BHG	FAS Sys Rel Maint	4,509	4,616	4,732	4,862
17	4	BH	BHH	Public Support Event New	57	58	60	61
18	4	IF	IFA	E Major Emgcy OH	36,440	36,864	37,393	38,095
19	4	IF	IFB	E Major Emgcy UG	8,941	9,044	9,174	9,347
20	4	BA	BAF	Genl Operate	25,993	26,811	27,667	28,571
21	4	BA	BAH	FLISR Maintenance	3,763	3,882	4,006	4,137
22	4	DD	DD#	Not assigned	6,608	6,835	7,070	7,314
23	4	DD	DD#			-	-	-
23	4			Electric Trouble Cust Equipt	6,092	6,301	6,517	6,743
25	4	DD	DDJ	Electric - Other	11,132	11,513	11,909	12,321
		HG	HGD	Distribution Operational Tech	5,978	5,954	5,954	5,996
26	4	AR	ARC	Change Party & Special Purpose	1,669	1,723	1,778	1,835
27	4	AR	ARD	Regular reads	8,769	9,051	9,342	9,644
28	4	DD	DDC	Electric Start/Stop	482	498	515	533
29	4	EY	EYA	Elect Meters: Other	3,035	3,042	3,061	3,099
30	4	EY	EYI	Electric Meter Module Mntce	67	67	67	68
31	4	EY	EYJ	R-Tests	418	419	421	427
32	4	EY	EYK	Preventative Maintenance	144	144	145	147
33	4	EY	EYT	CM: No Meter Exchg 3 phase	1,719	1,723	1,734	1,756
34	4	EY	EYU	CM: No Meter Exchg 1 phase	1,538	1,542	1,551	1,571
35	4	EY	EYV	CM: No Mtr Exchg Transfmrs CIA	836	838	844	854
36	4	EY	EYW	ECI Electric Meter Tests_Systm	722	724	729	738
37	4	HY	HY8	Gas Meter Module Mntce	687	710	735	760
38	4	IU	IUG	Revenue Assurance	1,590	1,660	1,733	1,809
39	4	HN	HN#	Not assigned	972,013	965,868	963,767	968,867
40	4	IG	IGI	Dead and Dying Trees	77,991	77,469	77,273	77,659
41	4	IG	IGJ	Enhanced Vegetation Management	131,816	130,933	130,601	131,254
42	4	BF	BF3	UG BART Cable Test/Insp	59	59	59	60
43	4	BF	BF4	UG Auto Xfer Swch Test/Insp	145	145	146	148
44	4	BF	BFA	OH Patrol	5,056	5,064	5,089	5,146
45	4	BF	BFB	OH Insp	53,674	53,751	54,022	54,629
46	4	BF	BFC	OH Insp Infrared	2,834	2,838	2,852	2,884
47	4	BF	BFD	UG Patrol	2,681	2,685	2,698	2,729
48	4	BF	BFE	UG Insp Infrared	14,545	14,566	14,640	14,804
49	4	BF	BFF	UG Manhole Insp Annual	507	507	510	516
50	4	BF	BFG	OH Equip Test	2,654	2,658	2,671	2,701

					2023	2024	2025	2026
					Imputed	Imputed	Imputed	Imputed
Line No.	Exhibit	MWC	MAT	MAT Description	Adopted	Adopted	Adopted	Adopted
	Electric D	istribution	(Exhibit	4)				
51	4	BF	BFH	Inspection Projects	4,832	4,839	4,864	4,919
52	4	BF	BFJ	OH Patrol ORT Post Outage	166	166	167	169
53	4	BK	BKA	Transformer Repr Emeryville	1,975	2,020	2,068	2,123
54	4	KA	KA#	Not assigned	888	890	895	906
55	4	KA	KAA	OH Genl CM Tag	22,086	22,135	22,263	22,527
56	4	KA	KAC	Bird Safe Retrofit	1,231	1,234	1,241	1,256
57	4	KA	KAD	Bird Safe Retrofit Annual	1,436	1,439	1,448	1,465
58	4	KA	KAF	OH COE CM Tag	7,213	7,229	7,271	7,357
59	4	KA	KAH	Streetlights Repl Burnouts	2,172	2,177	2,189	2,215
60	4	KA	KAK	RTVI Invest/Repr	126	127	127	129
61	4	KA	KAM	Insulators Wash	246	247	248	251
62	4	KA	KAO	Idle Fac Invest - Svc PIng	215	215	216	219
63	4	KA	KAP	OH EXP Projects	1,793	1,797	1,807	1,828
64	4	KA	KAQ	Wood Pole Bridge Bonding	1	1	1	1
65	4	KA	KAS	FAS Overhead Expense	1,797	1,801	1,811	1,833
66	4	KB	KB#	Not assigned	758	764	772	784
67	4	KB	KBA	UG Genl CM Tag	17,135	17,270	17,460	17,740
68	4	KB	KBC	UG COE CM Tag	1,548	1,560	1,577	1,602
69	4	KB	KBD	Nitrogen Cylinders CM	25	25	25	26
70	4	KB	KBE	BART Cable Repr	71	71	72	73
71	4	KB	KBP	UG EXP Projects	789	795	804	817
72	4	GA	GA#	Not assigned	(5,288)	(5,260)	(5,256)	(5,293)
73	4	GA	GAA	Pole Test & Treat	21,670	21,556	21,539	21,691
74	4	GA	GAB	Pole Joint Util Maint Reimb	-	-	-	-
75	4	GA	GAC	Pole Analyze Loading	22,710	22,591	22,573	22,732
76	4	GA	GAD	Pole Reinforce	4,404	4,381	4,377	4,408
77	4	GA	GAF	Telco Engr Revw Non-Reimbursed	176	175	175	176
78	4	GA	GAH	Pole Joint Util Maint Non-Reim	476	473	473	476
79	4	KC	KCA	Ntwk Equip Correct Maint NWTX	450	461	473	486
80	4	KC	KCB	Ntwk Oil Repl & 60Day F/U NWTX	34	35	36	37
81	4	KC	KCC	Ntwk Vault Correct Maint NWTX	135	138	141	145
82	4	KC	KCD	Ntwk Xfmr PrevMaint/Retst NWTX	2,809	2,878	2,953	3,035
83	4	KC	KCE	Ntwk Protector Prev Maint NWTX	719	737	756	777
84	4	KC	KCF	Fiber/SCADA Comm Repr NWTX	1,012	1,036	1,063	1,093
85	4	GC	GC1	El DSub-Engrg Maint Support	5,701	5,776	5,868	5,985
86	4	GC	GC2	El DSub-Major Emerg_Corr Maint	14,882	15,080	15,320	15,626
87	4	GC	GCA	Dsbn: TXfmr - prev maint.	1,147	1,162	1,180	1,204
88	4	GC	GCB	Dsbn: Breaker - prevent maint.	834	845	858	875
89	4	GC	GCC	Dist Sub: Substation Test Dpt	1,599	1,621	1,646	1,679
90	4	GC	GCD	Dsbn: Station Read_prev maint.	3,311	3,355	3,408	3,476
91	4	GC	GCE	Dsbn: Gnrl station_prev maint.	539	547	555	566
92	4	GC	GCF		529	536	544	555
				Dsbn: Batteries - prev maint.				
93 94	4	GC GC	GCG GCH	Vegetation Management Building Maintenance	10,477	10,616	10,784	11,000
					1,101	1,116	1,134	1,156
95	4	GC	GCI	Dsbn: Switches_prevent maint.	107	108	110	112
96	4	GC	GCJ	Dist Sub: Corrective (T80)	10,081	10,215	10,377	10,585
97	4	GC	GCM	Breaker Mechanism Services	1,589	1,610	1,636	1,668
98	4	GC	GCO	Transformer Overhauls	1,292	1,309	1,330	1,356
99	4	GC	GCS	CKSW MOAS Mechanism Services	215	218	221	225
100	4	GC	GCV	Breaker Overhauls	21	21	22	22

					2023 Imputed	2024 Imputed	2025 Imputed	2026 Imputed
Line No.	Exhibit	MWC	MAT	MAT Description	Adopted	Adopted	Adopted	Adopted
Line No.	Electric D		l	<u>'</u>	Adopted	Adopted	Adopted	Adopted
101	4	GC	GCW	Dist Sub: Station Washes	463	469	477	486
102	4	HX	HXA	Genl Auto & Protect	3,118	3,184	3,257	3,340
103	4	FZ	FZA	Genl Engineer	16,914	17,422	17,958	18,528
104	4	FZ	FZB	Voltage Complaints Invest	653	673	694	716
105	4	FZ	FZC	Transformer Reports Manage	237	244	252	260
106	4	FZ	FZD	Field Work Plan	859	885	912	941
107	4	FZ	FZE	Troublemen Field Work	1,539	1,585	1,634	1,686
108	4	EV	EV#	Not assigned	- 1	-	-	_
109	4	EV	EVA	Service Inquiry	5,004	5,192	5,387	5,587
110	4	EV	EVB	OK to Serve	8,913	9,248	9,594	9,952
111	4	EW	EW#	Not assigned	11,538	11,971	12,472	13,081
112	4	GE	GE#	Not assigned	19,272	19,285	19,368	19,574
113	4	JV	JV#	Not assigned	756	760	768	779
114	4	JV	JVA	ISvcs: Wrkplce End User SW Ste	4,097	4,122	4,161	4,223
115	4	AB	AB#	Not assigned	15,524	15,725	15,970	16,286
116	4	AT	AT#	Not assigned	2,185	2,210	2,242	2,284
117	4	HG	HGC	Advanced Dist Mgmt System Dev	17,229	17,160	17,159	17,281
118	4	IG	IG#	Not assigned	3,157	3,216	3,282	3,360
119	4	JV	JVA	ISvcs: Wrkplce End User SW Ste	3,567	3,589	3,623	3,677
120	4	AB	AB#	Not assigned	26,273	26,072	25,996	26,141
121	4	IS	IS#	Not assigned	1,831	1,819	1,815	1,825
122	4	ОМ	OM#	Not assigned	19,950	20,477	21,041	21,657
123	4	OS	OS#	Not assigned	62,154	63,852	65,661	67,623
124	Sub-total	Electric Di	istributio	n	2,276,312	2,285,297	2,302,152	2,332,471

				2023 Imputed	2024 Imputed	2025 Imputed	2026 Imputed
Line No.	Exhibit	MWC	MWC Description	Adopted	Adopted	Adopted	Adopted
Energy	Supply (Ex	chibit 5)		•			
1	5	AB	Misc Expense	-	-	-	-
2	5	AK	Manage Environmental Oper	2,263	2,277	1,534	0
3	5	BP	Manage DCPP Business	13,681	13,985	8,289	0
4	5	BQ	DCPP Support Services	42,009	45,540	30,990	0
5	5	BR	Operate DCPP Plant	76,609	80,902	43,602	0
6	5	BS	Maintain DCPP Plant Assets	91,686	91,457	40,519	0
7	5	ВТ	Nuclear Generation Fees	16,801	16,291	6,573	0
8	5	BU	Procure DCPP Materials & Svcs	-	-	-	-
9	5	BV	Maintain DCPP Plant Configurtn	34,729	35,078	16,636	0
10	5	EO	Provide Nuclear Support	10	10	7	0
11	5	IG	Manage Var Bal Acct Processes	2,717	2,744	1,871	0
12	5	ОМ	Operational Management	7,454	7,945	5,065	0
13	5	OS	Operational Support	23,816	23,950	13,396	0
14	5		Nuclear Generation	311,776	320,181	168,483	0
15	5	AB	Misc Expense	8,046	8,094	8,177	8,306
16	5	AG	#N/A	-	-	-	-
17	5	AK	Manage Environmental Oper	1,200	1,229	1,260	1,296
18	5	AX	Maint Resv, Dams & Waterways	30,569	30,953	31,446	32,088
19	5	AY	Habitat and Species Protection	274	281	289	297
20	5	BC	Perf Reimburs Wk for Oth	67	73	82	98
21	5	EP	Manage Property & Bldgs	1,274	1,311	1,350	1,392
22	5	IG	Manage Var Bal Acct Processes	26,737	26,781	26,951	27,296
23	5	KG	Operate Hydro Generation	38,216	39,100	40,080	41,181
24	5	KH	Maint Hydro Generating Equip	24,468	24,989	25,576	26,248
25	5	KI	Maint Hydro Bldg,Grnd,Infrast	15,363	15,586	15,862	16,206
26	5	KJ	License Compliance Hydro Gen	25,713	25,988	26,361	26,865
27	5	LX	Catastrophic Events	25,713	25,366	20,301	20,803
28	5	OM	Operational Management	3,201	3,305	3,414	3,529
29	5	OS	Operational Support	4,123	4,237	4,359	4,491
30	5	ZC	Corporate Items	1,575	1,600	1,629	1,666
31	5		Hydro Generation	180,826	183,525	186,836	190,958
32	5	AK	Manage Environmental Oper	2,986	3,022	3,068	3,128
33	5	KK	Operate Fossil Generation	14,950	15,230	15,553	15,929
34	5	KL	Maint Fossil Generating Equip		32,145		
35	5	KM	Maint Fossil Bldg,Grnd,Infrast	31,949 3,319	,	32,470 3,355	32,965 3,400
36	5		<u> </u>	484	3,330 495	506	
37	5	KQ KR	Operate Alternative Gen Maint AltGen Generating Equip				519 1,414
			0	1,352	1,367	1,387	
38	5	KS	Maint AltGen Bldg,Grnd,Infrast	567	569	574	582
39	5	OM	Operational Support	295	304	314	325
40	5	OS Sub total	Operational Support	- FF 001	- FC 4C3	- E7 330	
41	5		Natural Gas and Solar Generation	55,901	56,462	57,229	58,261
42	5	AB	Misc Expense	816	827	841	858
43	5	CT	Acq & Manage Elect Supply	30,347	31,384	32,463	33,584
44	5	CV	Acq & Manage Gas Supply	2,456	2,538	2,624	2,714
45	5	CY	Manage Electric Grid Ops	10,534	10,779	11,046	11,345
46	5		Energy Procurement and Administration	44,153	45,529	46,974	48,501
47	5	JV	Maintain IT Apps & Infra	2,875	2,572	2,604	2,184
48	5		Energy Technology Programs	2,875	2,572	2,604	2,184
49	Sub-total	Energy Su	pply	595,532	608,268	462,126	299,904

				2023	2024	2025	2026
				Imputed	Imputed	Imputed	Imputed
Line No.	Exhibit	MWC	MWC Description	Adopted	Adopted	Adopted	Adopted
50	Cutomer	and Comm	nunications (Exhibit 6)				•
51	6	AR	Read & Investigate Meters	(176)	(80)	20	124
52	6	CG	CAT Balancing Accounts	-	-	-	-
53	6	DK	Manage Customer Inquiries	62,629	64,632	66,702	68,842
54	6	EL	Develop New Revenue	41,052	40,869	-	-
55	6	EY	Change/Maint Used Elec Meter	897	924	951	980
56	6	EZ	Manage Var Cust Care Processes	48,080	49,265	50,505	51,788
57	6	FK	Retain & Grow Customers	737	761	785	810
58	6	GM	Manage Energy Efficiency-NonBA	11,231	11,456	11,694	11,940
59	6	HY	Change/Maint Used Gas Meters	6,691	6,901	7,118	7,342
60	6	IG	Manage Var Bal Acct Processes	35,501	36,006	36,595	37,308
61	6	IS	Bill Customers	49,274	50,763	52,317	53,924
62	6	IT	Manage Credit	14,834	15,221	15,625	16,043
63	6	IU	Collect Revenue	12,739	13,079	13,432	13,798
64	6	IV	Provide Account Services	17,758	18,271	18,803	19,354
65	6	JV	Maintain IT Apps & Infra	19,323	19,702	20,104	20,520
66	6	LI	Prov Corporate Communication	-	-	-	-
67	6	LJ	Prov Corp Affairs Svcs	14,283	14,615	14,964	15,325
68	6	OM	Operational Management	11,490	11,840	12,202	12,576
69	6	OS	Operational Support	-	-	-	-
70	Sub-total	Customer	and Communications	346,343	354,223	321,817	330,675
					İ	İ	
71	Shared Se	rvices and	Information Technology (Exhibit 7)				
72	7	AB	Misc Expense	11,288	11,630	11,984	12,350
73	7	FA	Spc A&G/Oth Csts-Bud Dept	-	-	-	-
74	7	FL	Safety Engineering & OSHA Cmpl	18,980	19,555	20,151	20,766
75	7	IG	Manage Var Bal Acct Processes	-	-	-	-
76	7	JV	Maintain IT Apps & Infra	557	573	591	609
77	7	KX	Prov Human Resource Svcs	7,609	7,839	8,078	8,325
78	7	Sub-total	Enterprise Health and Safety	38,434	39,598	40,804	42,050
79	7	AB	Misc Expense	283,589	284,512	287,553	291,881
80	7	BP	Manage DCPP Business	1,325	1,366	1,409	1,455
81	7	JV	Maintain IT Apps & Infra	789	802	817	832
82	7	ZC	Corporate Items	(162,516)	(162,871)	(164,395)	(166,713)
83	7	Sub-total	Transportation and Aviation Services	123,187	123,809	125,384	127,455
84	7	AB	Misc Expense	1,721	1,768	1,817	1,868
85	7	JL	Procure Materials & Services	-	-	-	-
86	7	JV	Maintain IT Apps & Infra	-	-	-	-
87	7		Materials	1,721	1,768	1,817	1,868
88	7	JL	Procure Materials & Services	17,735	18,223	18,732	19,259
89	7	JV	Maintain IT Apps & Infra	36	37	38	39
90	7	OS	Operational Support	8,840	9,127	9,427	9,738
91	7		Sourcing	26,611	27,388	28,197	29,036

Line No.	Exhibit	MWC	MWC Description	2023 Imputed Adopted	2024 Imputed Adopted	2025 Imputed Adopted	2026 Imputed Adopted
92	7	AB	Misc Expense	-	-	-	-
93	7	BI	Maint Buildings	6,006	6,122	6,246	6,374
94	7	EP	Manage Property & Bldgs	97,560	99,454	101,463	103,547
95	7	IG	Manage Var Bal Acct Processes	1,214	1,211	1,213	1,223
96	7	JH	Implement RealEstate Strategy	6,781	6,912	7,052	7,197
97	7	JV	Maintain IT Apps & Infra	16	17	17	17
98	7	ZC	Corporate Items	(63,714)	(64,980)	(66,320)	(67,710)
99	7	Sub-tota	Real Estate	47,863	48,737	49,671	50,648
100	7	AB	Misc Expense	1,437	1,466	1,497	1,528
101	7	AK	Manage Environmental Oper	10,106	10,192	10,308	10,472
102	7	AY	Habitat and Species Protection	343	343	344	348
103	7	CR	Mnge Waste Disp & Transp	2,368	2,351	2,344	2,355
104	7	ES	Implement Environment Projects	706	703	703	708
105	7	IG	Manage Var Bal Acct Processes	-	-	-	-
106	7	JE	Manage Land Services	4,504	4,549	4,609	4,687
107	7	JK	Manage Environ Remed (Earning)	6,088	6,222	6,370	6,528
108	7	JV	Maintain IT Apps & Infra	66	68	70	73
109	7	KX	Prov Human Resource Svcs	5	5	5	5
110	7	KY	Prov Regulation Svcs	1,497	1,527	1,559	1,592
111	7	ОМ	Operational Management	541	556	573	591
112	7	OS	Operational Support	2,931	3,029	3,131	3,237
113	7	Sub-tota	Land and Environmental Management	30,593	31,012	31,513	32,125
114	7	AB	Misc Expense	16,942	17,410	17,897	18,401
115	7	JV	Maintain IT Apps & Infra	3,611	3,697	3,787	3,880
116	7	Sub-tota	ERIM and Enterprise Data Management	20,552	21,107	21,684	22,281
117	7	AB	Misc Expense	-	-	-	-
118	7	JV	Maintain IT Apps & Infra	386,710	395,006	403,804	412,932
119	7	LL	Charges from Affiliates	-	-	-	-
120	7	ОМ	Operational Management	1,436	1,467	1,500	1,534
121	7	OS	Operational Support	-	-	-	-
122	7	ZC	Corporate Items	(37,434)	(38,263)	(39,134)	(40,037)
123	7	Sub-tota	Information Technology	350,711	358,210	366,169	374,429
124	7	JV	Maintain IT Apps & Infra	32,806	33,606	34,445	35,314
125	7	KZ	Prov Risk/Security Svcs	24,715	25,140	25,649	26,197
126	7		Cyber and Corporate Security	57,522	58,747	60,094	61,511
127	7	KW	Prov Financial Svcs	0	0	0	0_,0
128	7	KZ	Prov Risk/Security Svcs	8,150	8,341	8,541	8,747
129	7		Enterprise Risk Management	8,150	8,341	8,541	8,747
130			rvice and Information Technology	705,345	718,716	733,873	750,150

			2023	2024	2025	2026
Line No.	Exhibit	Corporate Services Organization	Imputed Adopted	Imputed Adopted	Imputed Adopted	Imputed Adopted
1	8	Human Resources	87,627	89,835	92,218	94,763
2	9	Finance	55,148	56,659	58,271	59,966
3	9	Risk and Audit	13,086	13,501	13,931	14,375
4	9	Compliance & Ethics	8,416	8,629	8,852	9,082
5	9	Regulatory Affairs	17,354	17,907	18,478	19,068
6	9	Law	47,392	48,558	49,779	51,042
7	9	Executive Offices and Corporate Secretary	5,126	5,256	5,391	5,532
8	9	Corporate Affairs	8,957	9,215	9,482	9,759
9		Sub-total Corporate Services	243,105	249,559	256,402	263,587
	Exhibit	Corporate Services IT Expense	2023 Imputed	2024 Imputed	2025 Imputed	2026 Imputed
10	8	Human Resources	294	301	307	314
11	9	Finance	477	488	499	511
12	9	Risk and Audit	105	108	111	114
13	9	Compliance & Ethics	225	232	240	248
14	9	Regulatory Affairs	439	448	458	468
15	9	Law	322	328	335	342
16	9	Executive Offices and Corporate Secretary	-	-	-	-
17	9	Corporate Affairs	(0)	(0)	(0)	(0)
18		Sub-total IT Expense	1,861	1,904	1,950	1,997
	Exhibit	Corporate Services Organization incl. IT	2023 Imputed	2024 Imputed	2025 Imputed	2026 Imputed
19	8	Human Resources	87,921	90,136	92,526	95,077
20	9	Finance	55,624	57,146	58,770	60,477
21	9	Risk and Audit	13,190	13,609	14,042	14,489
22	9	Compliance & Ethics	8,641	8,862	9,092	9,330
23	9	Regulatory Affairs	17,793	18,355	18,936	19,536
24	9	Law	47,713	48,886	50,114	51,384
25	9	Executive Offices and Corporate Secretary	5,126	5,256	5,391	5,532
26	9	Corporate Affairs	8,957	9,215	9,482	9,759
27		Total Corporate Services incl. IT	244,966	251.464	258,352	265,585

Line No.	Exhibit	Companywide Expense	2023 Imputed Adopted	2024 Imputed Adopted	2025 Imputed Adopted	2026 Imputed Adopted
1	7	Utility Wellness	23,325	23,733	24,168	24,620
2	7	CORP Wellness / EAP	3	3	3	3
3	7	Utility Employee Assistance Program	2,766	2,815	2,866	2,920
4	7	DOT Drug Testing	902	917	934	952
5	7	Workers Compensation	53,030	53,214	53,405	53,601
6	7	Utility PFL & STD	2,052	2,052	2,052	2,052
7	7	CORP LTD & STD Insurance Premium	29	30	30	31
8 9	7	Utility Long Term Disability Contribution	30,869	30,869	30,869	30,869
10	8	Severance & Redeployment	6,640 4,007	6,857 4,077	7,081 4,152	7,312 4,229
11	8	Tuition Refund Program CORP Non Qualified Retirement Plans	2,116	2,153	2,193	2,234
12	8	CORP STIP Non Officer (ATL)	42	2,133	2,193	2,234
13	8	CORP STIP Officer (ATL)	212	215	219	223
14	8	Utility Non Qualified Retirement Plans	1,520	1,520	1,520	1,520
15	8	Utility STIP Non Officer (ATL)	84,267	86,798	89,645	92,585
16	8	Utility STIP Officer (ATL)	2,699	2,780	2,871	2,965
17	8	Utility - Medical Plans	401,600	420,118	439,490	459,756
18	8	CORP - Medical Plans	148	151	154	157
19	8	Utility - Dental Plans	30,466	30,466	30,466	30,466
20	8	CORP - Dental Plans	10	11	11	11
21	8	Utility - Vision Plans	3,485	3,485	3,485	3,485
22	8	CORP - Vision Plans	1	1	1	1
23	8	Utility Employee Health Care Contributions	(41,363)	(43,270)	(45,266)	(47,353)
24	8	CORP Employee Health Care Contributions	(11)	(12)	(12)	(12)
25	8	Utility Group Life Insurance Plan	587	607	627	647
26	8	CORP Group Life Insurance Plan	2	2	2	2
27	8	Utility Employee Relocation Program	6,383	6,495	6,614	6,738
28	8	CORP Employee Relocation Program	-	-	-	-
29	8	Service Awards	-	-	-	-
30	8	Adoption Reimbursement	18	18	18	19
31	8	Commute Transit Program	108	110	112	114
32	8	Utility Retirement Savings Plan	140,072	144,666	149,411	154,312
33	8	CORP Retirement Savings Plan	99	101	103	105
34	8	Post Retirement Pension (Pay-As-You-Go)	157	160	163	166
35	8	CORP Postretirement Trust Contributions	2	2	2	2
36	8	Post Retirement Medical (Pay-As-You-Go)	435	442	450	459
37	8	Post Retirement Life (Pay-As-You-Go)	3,389	3,448	3,511	3,577
38	8	Postretirement Trust Contributions	- 22	- 24	-	-
39	8	Family Support Program	33	34	35	35
40	8	CORP PBOP Contributions/Pay-As-You-Go	2	2	2	2
41	9	Bank Fees	9,523	9,690	9,867	10,052
42	9	CORP Draw and Linearrance	82	83	85	86
43	-	CORP Property Insurance	15	15	15	15
44 45	9	CORP Wildfire Liability Insurance CORP Director & Officers Liability Insur	2,368	2,410	2,454	2,500
45	9			,	,	
46	9	Director & Officers Liability Insurance	6,441 1,753	6,441 1,753	6,441 1,753	6,441
47	9	Nuclear Liability Insurance Nuclear Property Insurance	110	1,753	1,753	<u> </u>
49	9	Utility Liability Insurance	160,007	160,007	160,007	160,007
50	9	Utility Property Insurance	28.522	28,522	28,522	28,522
51	9	Wildfire Liability Insurance	- 20,322	-	-	- 20,322
52	9	Litigation Settlements & Judgements	18,959	18,959	18,959	18,959
53	9	Third Party Claims	14,941	12,388	12,388	12,388
54	9	CORP Director Fees	1,884	1,917	1,952	1,988
55	10	Meals & Sports Adjustment	(318)	(324)	(330)	(336)
56		Sub-total Companywide Expense	1,004,390	1,027,084	1,053,655	1,079,472
57	10	Rewards and Recognition Program	(19,150)	(19,484)	(19,841)	(20,213)
58		Total Companywide Expense (excl Self- Insurance)	985,241	1,007,600	1,033,813	1,059,260
59	9	Self-Insurance	400,012	400,000	200,000	-
60		Total Companywide Expense (incl Self- Insurance)	1,385,253	1,407,600	1,233,813	1,059,260

				2023 Imputed	2024 Imputed	2025 Imputed	2026 Imputed
Line No.	Exhibit	MWC	MWC Description	Adopted	Adopted	Adopted	Adopted
			·		·	·	•
Gas Distr	ibution (Exh	ibit 3)					
1	3	05	Tools & Equipment	6,763	7,034	7,254	7,478
2	3	14	G Dist Pipeline Repl Program	510,133	516,273	521,937	527,321
3	3	27	Gas Meter Protection-Capital	5,476	5,542	5,602	5,660
4	3	29	G Dist Customer Connects	72,000	72,000	72,000	72,000
5	3	31	NGV - Station Infrastructure	4,889	4,948	5,003	5,054
6	3	47	G Dist Capacity	41,831	42,334	42,799	43,240
7	3	50	G Dist Reliability General	209,328	211,848	214,172	216,381
8	3	51	G Dist WRO	74,842	75,743	76,574	77,364
9	3	52	G Dist Leak Repl/Emergency	1,640	1,660	1,678	1,696
10	3	74	Install New Gas Meters	2,257	2,285	2,310	2,333
11	3	2F	Build IT Apps & Infra	12,365	12,862	13,263	13,672
12	3	4A	G Dist Ctrl Operations Assets	531	537	543	548
13			Sub-total Gas Distribution	942,055	953,065	963,134	972,748
Gas Trans	smission & S	Storage (F	vhihit 3)				
14	3	05	Tools & Equipment	3,502	3,643	3,756	3,872
15	3	26	GT Customer Connects	8,858	8,573	8,586	8,729
16	3	44	Gas Capital:GasTrans-Sub	3,243	3,061	15,760	16,016
17	3	73	GT Pipeline Capacity	12,231	11,838	11,855	12,053
18	3	75	GT Pipeline Reliability	373,015	361,020	361,549	367,592
19	3	76	GT Station Reliability	193,485	188,430	193,827	196,473
20	3	83	GT WRO	17,881	17,306	17,331	17,621
21	3	84	GT Gas Gathering System Manage	12,291	11,895	11,913	12,112
22	3	98	GT Integrity Management	61,142	59,175	59,262	60,253
23	3	2F	Build IT Apps & Infra	12,988	13,510	13,931	14,361
24	3	3L	Gas Trans Storage Wells	87,630	113,959	40,222	6,855
25	3	3K	Gas Trans Remediate Corrosion	44,733	43,347	43,419	44,135
26			Sub-total Gas Transmission & Storage	830,998	835,757	781,411	760,073
Electric D	istribution ((Exhibit 4)					
27	4	05	Tools & Equipment	7,608	7,913	8,160	8,412
28	4	06	E Dist Line Capacity	143,580	149,954	154,219	156,675
29	4	07	E Dist Inst/Repl OH Poles	362,645	378,743	389,516	395,718
30	4	08	E Dist Replace OH Asset	813,396	1,059,200	1,290,713	1,750,277
31	4	09	E Dist Automation & Protection	29,595	30,796	31,747	32,679
32	4	10	E Dist WRO General	138,484	144,631	148,745	151,114
33	4	16	E Dist Customer Connects	653,710	682,728	702,148	713,328
34	4	17	E Dist Routine Emergency	249,483	260,558	267,969	272,236
35	4	21	Misc Capital	28,275	29,476	30,350	31,038
36	4	25	Install New Electric Meters	31,396	32,790	33,722	34,259
37	4	30	E Dist WRO Rule 20A	30,457	31,809	32,713	33,234
38	4	46	E Dist Subst Capacity	60,582	63,272	65,071	66,107
39	4	48	E Dist Subst Repl Other Equip	100,521	104,983	107,970	109,689
40	4	49	E Dist Reliability Ckt/Zone	88,300	92,219	94,842	96,353
41	4	54	E Dist Subst Repl Transformer	22,157	23,141	23,799	24,178
42	4	56	E Dist Replace UG Asset-Gen	126,794	132,423	136,189	138,358
43	4	58	E Dist Repl Substation Safety	8,587	8,968	9,223	9,370
44	4	59	E Dist Subst Emergency Repl	85,867	89,678	92,229	93,698
45	4	63	E T&D Control System/ Facility	118,519	123,760	127,294	129,397
46	4	95	E Dist Major Emergency	66,360	69,305	71,277	72,412
47	4	2A	E Dist Inst/Repl OH General	232,654	242,982	249,893	253,872
48	4	2B	E Dist Inst/Repl UG	66,474	69,425	71,400	72,537
49	4	2C	E Dist Inst/Repl Network	14,135	14,763	15,183	15,424
50	4	2F	Build IT Apps & Infra	70,173	72,990	75,265	77,590
51			Sub-total Electric Distribution	3,549,754	3,916,506	4,229,638	4,737,955

Line No.	Exhibit	MWC	MWC Description	2023 Imputed Adopted	2024 Imputed Adopted	2025 Imputed Adopted	2026 Imputed Adopted
Line ivo.	LAINGIC		WWV Bescription	Adopted	Adopted	Adopted	Adopted
Energy Su	pply (Exhib	it 5)					
52	5	05	Tools & Equipment	747	-	-	-
53	5	20	DCPP Capital	10,244	5,914	986	-
54	5	2F	Build IT Apps & Infra	1,323	1,376	1,419	1,463
55	5		Sub-total Nuclear Generation	12,314	7,290	2,405	1,463
56	5	05	Tools & Equipment	625	712	774	858
57	5	11	Relicensing Hydro Gen	4,685	4,413	548	-
58	5	12	Implement Environment Projects	426	981	488	988
59	5	2F	Build IT Apps & Infra	2,756	2,867	2,956	3,047
60	5	2L	Instl/Rpl for Hydro Safety&Reg	63,080	47,170	25,426	18,433
61	5	2M	Instal/Repl Hydro Gneratng Eqp	84,622	92,061	131,171	116,742
62	5	2N	Instal/Repl Resv,Dams&Waterway	42,764	30,167	24,708	24,502
63	5	2P	Instl/Repl Hydr BldgGrndInfrst	26,625	14,275	12,640	9,539
64	5	3H	Hydroelec Lic & Lic Conditions	145,224	154,204	85,571	75,076
65			Sub-total Hydro Generation	370,806	346,849	284,282	249,186
66	5	05	Tools & Equipment	437	447	454	460
67	5	2S	Instal/Repl Fosil Gnerating Eqp	3,487	5,524	5,661	1,741
68	5	2T	Instl/Repl Fosl BldgGrndInfrst	1,588	109	-	
69	5	3A	Instl/Rpl for AltGen Safty&Reg	7	7	7	7
70	5	3B	Instal/Repl AltGen GneratngEqp	719	722	738	763
71			Sub-total Fossil Generation	6,238	6,809	6,859	2,972
72			Sub-total Power Generation	377,044	353,658	291,141	252,158
73	5	2F	Build IT Apps & Infra	11,465	11,925	12,297	12,676
74			Sub-total Energy Policy and Procurement	11,465	11,925	12,297	12,676
75			Sub-total Energy Suppy	400,823	372,873	305,842	266,297
C4	. Caua (Fulati	-:+ C\					
76	Care (Exhil	05	Tools 9 Fauinment	110	115	118	122
77	6	21	Tools & Equipment	110	115	118	122
78	6	25	Misc Capital Install New Electric Meters	28,992	30,279	31,140	31,636
79	6	74	Install New Gas Meters	82,311	83,789	85,073	86,334
80	6	2F	Build IT Apps & Infra	30,095	31,303	32,279	
81	0	ZF	Sub-total Customer Care	141,619			33,276 151,489
91			Sub-total customer care	141,019	145,601	148,729	131,463
Sharad Sa	rvices & IT	(Evhihit 7)					
82	7	2F	Build IT Apps & Infra	1,102	1,147	1,182	1,219
83		21	Sub-total Safety	1,102	1,147	1,182	1,219
84	7	04	Fleet / Auto Equip	113,116	117,656	121,324	125,071
85	7	05	Tools & Equipment	1,496	1,556	1,605	1,654
86	7	2F	Build IT Apps & Infra	1,543	1,605	1,655	1,706
87	,		Sub-total Transportation	116,156	120,818	124,584	128,432
88	7	05	Tools & Equipment	669	695	717	739
89	7	21	Misc Capital	654	680	702	723
90	•		Sub-total Materials	1,323	1,376	1,419	1,463
91	7	22	Maintain Buildings	41,009	46,002	46,034	32,672
92	7	23	Implement RealEstate Strategy	99,788	155,878	152,351	141,578
93	•		Sub-total Real Estate	140,797	201,880	198,385	174,250
94	7	05	Tools & Equipment	331	344	355	366
95	7	12	Implement Environment Projects	8,066	8,390	8,651	8,919
96	•		Sub-total Land and Environmental	8,397	8,734	9,006	9,284
97	7	2F	Build IT Apps & Infra	2,205	2,293	2,365	2,438
98	•		Sub-total ERIM	2,205	2,293	2,365	2,438
99			Sub-total Shared Services	269,980	336,247	336,941	317,085
100	7	2F	Build IT Apps & Infra	286,509	298,007	307,297	316,789
101	•		Sub-total Information Technology	286,509	298,007	307,297	316,789
102	7	2F	Build IT Apps & Infra	32,834	34,152	35,217	36,305
103	7	3N	Security Install/Replace	14,690	15,280	15,756	16,243
104	•	511	Sub-total Cyber and Corporate Security	47,525	49,432	50,973	52,547
105			Sub-total Information Technology and Security	334,034	347,439	358,270	369,336

Line No.	Exhibit	MWC	MWC Description	2023 Imputed Adopted	2024 Imputed Adopted	2025 Imputed Adopted	2026 Imputed Adopted
Human R	esources (Ex	chibit 8)					
107	8	05	Tools & Equipment	31	32	33	34
108	8	22	Maintain Buildings	1,072	1,115	1,150	1,185
109			Sub-total Human Resources	1,102	1,147	1,182	1,219
Administ	trative and G	ieneral (E	xhibit 9)				
110	9	2F	Build IT Apps & Infra	551	573	591	609
111	9		Sub-total Risk, Audit and Insurance	551	573	591	609
112	9	2F	Build IT Apps & Infra	551	573	591	609
113	9		Sub-total Compliance & Ethics	551	573	591	609
114	9	2F	Build IT Apps & Infra	1,654	1,720	1,774	1,828
115	9		Sub-total Regulatory Affairs	1,654	1,720	1,774	1,828
116			Sub-total Administrative and General	2,756	2,867	2,956	3,047

Line NO.	Exhibit	MWC	MAT	MAT Description	2023 Imputed Adopted	2024 Imputed Adopted	2025 Imputed Adopted	2026 Imputed Adopted
		bution (Ex						
1	3	05	05A	Tools	6,763	7,034	7,254	7,478
2	3	14	14A	Pipeline Repl Pgm-Mains & Svcs	102,468	103,701	104,839	105,920
3	3	14	14D	Plastic Pipe Replace_Main/Svc	407,665	412,572	417,099	421,401
4	3	27	27A	Meter Protection-Capital	5,476	5,542	5,602	5,660
5	3	29	29#	Not assigned	5,018	5,018	5,018	5,018
6	3	29	29C	NB-G-Res Svc R16 Only	9,465	9,465	9,465	9,465
7	3	29	29D	NB-G-CIA R15 and/or R16 MLX	15,665	15,665	15,665	15,665
8	3	29	29H	29H-G-Res R15/R16 MLX 1-4 Lots	4,184	4,184	4,184	4,184
9	3	29	291	NB-G-Res R15/16 MLX - Apts	4,213	4,213	4,213	4,213
10	3	29	29J	NB-G-Res R15/16 MLX >=5 lots	23,257	23,257	23,257	23,257
11	3	29	29M	Prod Subdiv Res Svc Comp - G	10,199	10,199	10,199	10,199
12	3	31	31A	31A-LNG/CNG Stations	4,889	4,948	5,003	5,054
13	3	47	47B	Cons/Acq New Fac-G-Cap-Mains	35,761	36,191	36,588	36,966
14	3	47	47C	Cons/Acq New Fac-G-Cap-RegSta	5,882	5,953	6,018	6,080
15	3	47	47D	Cons/Acq New Fac-G-Cap-ReplReg	129	130	132	133
16	3	47	47F	Cons/Acquire New Fac G-Cap-Oth	59	60	60	61
17	3	50	50A	Impr Rel/ Dep - Gas Mains	52,051	52,678	53,256	53,805
18	3	50	50B	Impr Rel/Dep - Gas Services	12,095	12,241	12,375	12,502
19	3	50	50C	Impr Rel/Dep Gas Regulation	49,887	50,488	51,042	51,568
20	3	50	50D	Impr Rel/Dep Gas CP Systems	1,383	1,400	1,415	1,430
21	3	50	50E	Impr Rel/Dep Gas Valves	5,776	5,845	5,909	5,970
22	3	50	50F	Impr Rel/Dep Gas Other Equip	488	494	499	504
23	3	50	50G	Impr Rel/Dep-Gas Svc Repl Leak	14,809	14,988	15,152	15,308
24	3	50	50H	Impr Rel/Dep-CutOff Idle G Svc	3,161	3,199	3,234	3,267
25	3	50	501	Impr Rel/Dep-Deac Only-M/R/V	8,924	9,032	9,131	9,225
26	3	50	50J	Gas Overbuild - G	16,738	16,940	17,126	17,302
27	3	50	50K	Emergent Leaking Main Replace	5,757	5,827	5,891	5,951
28	3	50	50L	Impr Rel Dep Gas Reg Component	10,669	10,798	10,916	11,029
29	3	50	50M	Complex-Gas Svc Repl Leak	1,125	1,139	1,151	1,163
30	3	50	50P	ImprRelb/SysDepd-G-DpWellAnode	17,989	18,206	18,405	18,595
31	3	50	50Q	Casings	2,698	2,731	2,761	2,789
32	3	50	50R	Rep/Inst EmerShtdwn&SafeOpsVal	5,776	5,845	5,909	5,970
33	3	51	51#	Not assigned	(742)	(751)	(760)	(767)
34	3	51	51E	WRO Relocate Mn & Svcs - G	40,335	40,820	41,268	41,694
35	3	51	51F	WRO Svc Only Alteration - G	11,174	11,308	11,432	11,550
36	3	51	51G	WRO Gas Svc Cutoff at Main - G	15,942	16,133	16,311	16,479
37	3	51	511	WRO Remove Idle Main >100' - G	2,163	2,190	2,214	2,236
38	3	51	51J	WRO Relocate CP Area/Reg Sta-G	831	841	851	859
39	3	51	51K	WRO G CAP Proj>\$50K	4,863	4,922	4,976	5,027
40	3	51	51L	3rd Party WRO Pd.on Actuals	277	280	283	286
41	3	52	52B	Emerg Resp-G-Dig-Ins-Svcs	1,344	1,360	1,375	1,389
42	3	52	52C	Emerg Resp-G-Dig-Ins-Main	297	300	303	307
43	3	74	74A	Install Regulators	2,257	2,285	2,310	2,333
44	3	2F	2FA	ASvcs: Development	12,365	12,862	13,263	13,672
45	3	4A	4AF	ERX Pressure Monitoring-6	531	537	543	548
46		Gas Distri		List ressure monitoring o	942,055	953,065	963,134	972,748

					2023	2024	2025	2026
					Imputed	Imputed	Imputed	Imputed
Line No.	Exhibit	MWC	MAT	MAT Description	Adopted	Adopted	Adopted	Adopted
	Gas Trans				2.500	2.542	0.756	0.070
1	3	05	05A	Tools	3,502	3,643	3,756	3,872
2	3	26	26A	New Business	8,858	8,573	8,586	8,729
3	3	44	44A	Stan-Pac Capital	3,243	3,061	15,760	16,016
4	3	73	73A	Capacity for Load Growth	6,757	6,540	6,550	6,659
5	3	73	73B	Capacity Betterment	984	953	954	970
6 7	3	73	73D	LNG / CNG	4,490	4,345	4,352	4,424
	3	75	75C	Routine Spend M&C - Capital	18,443	17,850	17,876	18,175
8	3	75	75D	Valve Program	45,830	44,356	44,421	45,164
9	-	75 75	75E	Vintage Pipe Replacement	4,146	4,013	4,019	4,086
10	3	75 75	75H	Pipe Replacement Class Loctn	8,587	8,311	8,323	8,463
11	3	75	751	Valve Automation	23,608	22,849	22,882	23,265
12	3	75	75J	Geo-Hazard Mitigations	8,486	8,213	8,225	8,363
13	3	75 75	75K	Water and Levee Crossings	2,550	2,468	2,471	2,513
14	3	75 75	75L	Fault Crossings	13,542	13,107	13,126	13,345
15	3	75	75M	Shallow Pipe	10,178	9,851	9,866	10,030
16	3	75	75N	Hydrostatic Testing	44,062	42,645	42,707	43,421
17	3	75 75	75O 75P	Pipe Rplcmnt - Oth PL Sfty Inv	33,831	32,744	32,792	33,340
18	3			ILI Capital Repair (Non-BA)	14,431	13,967	13,987	14,221
19 20	3	75 75	75Q	Pipe Replacement (IM)	20,045	19,400	19,428	19,753
	3		75R 75S	Pipe Rplcmnt In-Lieu of Hydro	41,135 1,774	39,812	39,870	40,537 1,748
21 22	3	75 75	75T	Direct Assessment Exposed Pipe	10,178	1,717 9,851	1,720 9,866	10,030
23	3	75 75					-	-
23	3	75	75U 75V	Non-TIMP Strength Testing	69,859 2,328	67,613	67,712	68,844 2,294
25	3	76	762	TIMP Direct Exam-Captal Recoat Gill Ranch Capital	999	2,253 967	2,257 968	985
26	3	76	763	Perform Simple Station Rblds	7,394	7,156	7,167	7,287
27	3	76	764	Perform Complex Station Rblds	47,094	45,580	45,647	46,409
28	3	76	765	Perform Transm Terminal Upgrd	10,772	10,426	10,441	10,615
29	3	76	76M	GT SCADA Visibility	3,106	3,006	3,011	3,061
30	3	76	76N	Routine Spend C&P Capital	58,989	57,710	57,892	58,744
31	3	76	76P	GT Elect Upgrd-Hinkley&Topock	6,304	6,101		6,212
32	3	76	76S	Engineering Critical Assmnt 2	9,849	9,532	6,110 9,546	9,705
33	3	76	76T	Compressor Control Upgrades	12,090	11,839	11,878	12,051
34	3	76	76V	Station Strength Tst - Capital	16,745	16,207	16,231	16,502
35	3	76	76X	Compressor Replacements	10,488	10,562	15,579	15,388
36	3	76	76Z	Physical Security - Capital	9,655	9,344	9,358	9,514
37	3	83	83A	Work Requested by Others	17,881	17,306	17,331	17,621
38	3	84	84D	Gas Gathering	12,291	11,895	11,913	12,112
39	3	98	98C	ILI Upgrades	61,142	59,175	59,262	60,253
40	3	2F	2FA	ASvcs: Development	12,988	13,510	13,931	14,361
41	3	3K	3K1	Drip Replacement	14,161	13,754	13,781	14,003
42	3	3K	3K4	AC Interf Mitigation	3,277	3,171	3,176	3,229
43	3	3K	3K5	Casing Mitigation	14,766	14,294	14,316	14,554
44	3	3K	3K6	Cathodic Protection-New	1,644	1,592	1,594	1,620
45	3	3K	3K7	Cathodic Protection-Replacemen	4,175	4,041	4,048	4,115
46	3	3K	3K8	Test Station Installation	130	126	126	128
47	3	3K	3K9	Electrical Interference - DC	6,254	6,053	6,062	6,163
48	3	3K	3KA	Atmospheric Corrosion	326	316	316	322
49	3	3L	3L1	WELL - Drilling	19,867	47,373	33,416	-
50	3	3L	3L3	WELL - Reworks	66,326	58,803	6,807	6,855
51	3	3L	3L5	WELL - Cntrls & Conts Monitrng	1,437	7,783	-	-
52		Gas Trans			830,998	835,757	781,411	760,073

					2023	2024	2025	2026
					Imputed	Imputed	Imputed	Imputed
Line No.	Exhibit	MWC	MAT	MAT Description	Adopted	Adopted	Adopted	Adopted
	Electric D	istribution	(Exhibit	4)				
1	4	05	05A	Tools	7,608	7,913	8,160	8,412
2	4	06	06#	Not assigned	7,438	7,768	7,989	8,117
3	4	06	06A	Fdr Prj Assoc w/Subst Capacity	10,499	10,965	11,277	11,456
4	4	06	06B	Transformer Repl Overloaded	8,524	8,902	9,155	9,301
5	4	06	06D	Circuits Reinforce-DP Managed	4,674	4,882	5,021	5,101
6	4	06	06E	Circuits Reinforce-PS Managed	25,026	26,137	26,880	27,308
7	4	06	06G	Voltage Correct Secondary	2,870	2,997	3,082	3,131
8	4	06	06H	Dist Line New Business Perf	74,966	78,294	80,521	81,803
9	4	06	061	Operational Capacity Proj	7,015	7,326	7,534	7,654
10	4	06	06K	Power Factor Management	1,167	1,219	1,254	1,274
11	4	06	06P	06P_Enable DG Dist Line	1,401	1,464	1,505	1,529
12	4	07	07C	Special Criteria Pole Repl	3,150	3,290	3,384	3,438
13	4	07	07D	Pole Repl	352,006	367,632	378,088	384,109
14	4	07	070	Overloaded Pole Replacements	7,489	7,821	8,044	8,172
15	4	08	08J	Repl Deteriorated OH Conductor	44,888	46,881	48,214	48,982
16	4	08	08S	Replace Obsolete OH Switches	315	329	338	344
17	4	08	08W	Wildfire Resiliency projects	768,193	1,011,990	1,242,161	1,700,951
18	4	09	09B	ED Sub SCADA/RTU Replace	20,074	20,880	21,531	22,196
19	4	09	09D	ED Sub SCADA/RTU Install	518	538	555	572
20	4	09	09E	ED Sub Protect Relay Inst/Repl	3,033	3,167	3,258	3,309
21	4	09	09F	ED Sub SCADA Emergency Repl	5,971	6,210	6,404	6,602
22	4	10	10#	Not assigned	3,472	3,626	3,729	3,788
23	4	10	10C	High-Speed Rail Relocation	3,247	3,392	3,488	3,544
24	4	10	10J	WRO OH Relocation - E	131,765	137,614	141,528	143,782
25	4	16	16#	Not assigned	5,264	5,498	5,654	5,744
26	4	16	160	Purchase Transformers	174,614	182,365	187,552	190,538
27	4	16	16C	NB-E-Res OH Svc R16 only	198,819	207,645	213,551	216,951
28	4	16	16H	NB-E-CI UG R15 and/or R16 MLX	201,088	210,014	215,988	210,931
29	4	16	16R	NB-E-Res UG R15/16 MLX>=5 lots	53,053	55,408	56,984	57,891
	4				-			22,776
30	4	16	16S	Prod Subdiv Res Svc Compl - E	20,873	21,799	22,419	
31 32	4	17	17#	Not assigned	2,688	2,807	2,887	2,933
	4	17	17B	Repl Pint Corr F LIC	137,273	143,367	147,445	149,792
33		17	17C	Repl Pint Corr-E-UG	51,442	53,726	55,254	56,134
34	4	17	17D	17D: Damage Claims Capital	40,636	42,440	43,647	44,342
35	4	17	17P	ED Emgcy>25K excl Major Events	17,444	18,218	18,737	19,035
36	4	21	21#	Not assigned	5,910	6,154	6,342	6,512
37	4	21	21A	EPR Capital	22,365	23,322	24,009	24,526
38	4	25	25D	Remove - CFS	1,548	1,617	1,663	1,689
39	4	25	25H	Installs: New Business	7,137	7,454	7,666	7,788
40	4	25	25K	Installs: Existing premises	22,711	23,719	24,394	24,783
41	4	30	30A	WRO-Rule 20A	30,457	31,809	32,713	33,234
42	4	46	46A	DSub Nor Capacity	16,420	17,149	17,637	17,918
43	4	46	46F	DSub Em and Op Capacity	1,019	1,064	1,095	1,112
44	4	46	46H	DSub New Bus Related Capacity	43,143	45,058	46,340	47,077
45	4	48	48A	Repl Dsub Other Equipment	4,402	4,597	4,728	4,803
46	4	48	48C	Repl DSub Batteries	3,389	3,540	3,641	3,699
47	4	48	48D	Repl DSub Breakers	29,794	31,116	32,002	32,511
48	4	48	48E	Repl DSub Switches	2,304	2,406	2,475	2,514
49	4	48	48F	Repl DSub Switchgear	33,829	35,331	36,336	36,914
50	4	48	48H	Repl DSub Civil Structures	5,649	5,900	6,068	6,164

					2023	2024	2025	2026
					Imputed	Imputed	Imputed	Imputed
Line No.	Exhibit	MWC	MAT	MAT Description	Adopted	Adopted	Adopted	Adopted
		istributior		·				
51	4	48	48L	Dist Line Work Support Substat	9,497	9,918	10,200	10,363
52	4	48	48N	DSub Insulators	5,649	5,900	6,068	6,164
53	4	48	48X	DSub Animal Abatement	6,008	6,275	6,453	6,556
54	4	49	49#	Not assigned	13,026	13,604	13,991	14,214
55	4	49	49A	Distribution Line Automation	1,921	2,006	2,063	2,096
56	4	49	49B	Recl Ctrls Inst/Repl	4,587	4,791	4,927	5,005
57	4	49	49C	OH Fuses Inst/Repl	1,627	1,699	1,748	1,775
58	4	49	49H	PSPS Sect Device Inst/Repl	12,602	13,162	13,536	13,752
59	4	49	491	49I OH FltInd/LnSnsr Inst/Repl	23,925	24,987	25,698	26,107
60	4	49	49R	Grid Mod Tech	18,304	19,117	19,660	19,973
61	4	49	498	Elect Reliability Inst FLISR	3,882	4,054	4,169	4,236
62	4	49	49T	D-Single Phase Recloser	4,558	4,760	4,896	4,973
63	4	49	49X	Emerging Dist Rel Improvements	3,868	4,040	4,155	4,221
64	4	54	54A	E Dist Subst-Repl Transfm	18,767	19,601	20,158	20,479
65	4	54	54L	E Dist Subst-Life Ext Transfm	3,389	3,540	3,641	3,699
66	4	56	56A	UG Cable Other Repl	38,567	40,279	41,425	42,084
67	4	56	56B	UG Cable Inject	1,165	1,216	1,251	1,271
68	4	56	56C	UG Cable COE Repl	37,551	39,218	40,333	40,976
69	4	56	56N	Network Cable Replacement	32,200	33,629	34,586	35,137
70	4	56	56S	Replace Obsolete UG Switches	8,474	8,850	9,102	9,247
71	4	56	56T	Install Temperature Indicator	8,838	9,230	9,492	9,644
72	4	58	58A	DSub Safety&Envir&Fire Protect	3,389	3,540	3,641	3,699
73	4	58	58S	DSub Security Upgrades	5,197	5,428	5,582	5,671
74	4	59	59A	E Dist Subst Emergency Repl	85,867	89,678	92,229	93,698
75	4	63	63C	Advanced Dist Mgmt System Dev	113,743	118,792	122,171	124,116
76	4	63	63D	Distribution Operational Tech	4,776	4,968	5,123	5,281
77	4	95	95A	E Major Emgcy OH	62,755	65,541	67,405	68,479
78	4	95	95B	E Major Emgcy UG	3,604	3,764	3,871	3,933
79	4	2A	2AA	OH Genl Repl	138,780	144,940	149,063	151,436
80	4	2A	2AB	Bird Safe Inst/Repl	3,623	3,784	3,892	3,954
81	4	2A	2AC	Bird Safe Inst/Repl Annual	3,770	3,938	4,050	4,114
82	4	2A	2AE	OH COE Repl	29,330	30,632	31,503	32,005
83	4	2A	2AF	OH Idle Facility Remove	2,844	2,970	3,054	3,103
84	4	2A	2AG	SF Series Streetlights	2,595	2,710	2,787	2,832
85	4	2A	2AH	LED Streetlights	7,380	7,707	7,927	8,053
86	4	2A	2AI	SF Historical Streetlights	1,038	1,084	1,115	1,133
87	4	2A	2AP	OH CAP Projects	17,835	18,627	19,157	19,462
88	4	2A	2AQ	Ceramic Post Insulators	6,071	6,341	6,521	6,625
89	4	2A	2AR	Surge Arrester Replacement	18,523	19,345	19,895	20,212
90	4	2A	2AS	FAS Overhead Capital	865	904	929	944
91	4	2B	2BA	UG Genl Repl	49,864	52,078	53,559	54,412
92	4	2B	2BB	Fault Indicator Replacements	900	940	966	982
93	4	2B	2BD	UG COE Repl	7,224	7,545	7,759	7,883
94	4	2B	2BF	UG Idle Facility Remove	30	31	32	32
95	4	2B	2BP	UG CAP Projects	8,457	8,832	9,083	9,228
96	4	2C	2CA	Network Misc	339	354	364	370
97	4	2C	2CC	Transformer & Protector Repl	4,057	4,238	4,358	4,428
98	4	2C	2CE	SCADA Communications Upgrd	9,739	10,171	10,460	10,627
99	4	2F	2F#	Not assigned	37,763	39,279	40,504	41,755
100	4	2F	2FA	ASvcs: Development	32,410	33,711	34,762	35,835
101		Electric Di		•	3,549,754	3,916,506	4,229,638	4,737,955

Line No.	Exhibit	MWC	MWC Description	2023 Imputed Adopted	2024 Imputed Adopted	2025 Imputed Adopted	2026 Imputed Adopted
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	pply (Exhib		Table 9 Faulus and	747			
2	5	05	Tools & Equipment	747	-	-	-
	5	20 2F	DCPP Capital	10,244	5,914	986	
3	5	ZF	Build IT Apps & Infra Sub-total Nuclear Generation	1,323 12,314	1,376 7,290	1,419 2,405	1,463 1,463
5	5	05	Tools & Equipment	625	7,290	774	858
6	5	11		4,685	4,413	548	636
7	5	12	Relicensing Hydro Gen Implement Environment Projects	4,665	981	488	988
8	5	2F	Build IT Apps & Infra	2,756	2,867	2,956	3,047
9	5	2L	Instl/Rpl for Hydro Safety&Reg	63,080	47,170	25,426	18,433
10	5	2M	Instal/Repl Hydro Gneratng Eqp	84,622	92,061	131,171	116,742
11	5	2N	Instal/Repl Resv, Dams & Waterway	42,764	30,167	24,708	24,502
12	5	2P	Instl/Repl Hydr BldgGrndInfrst	26,625	14,275	12,640	9,539
13	5	3H	Hydroelec Lic & Lic Conditions	145,224	154,204	85,571	75,076
14		311	Sub-total Hydro Generation	370,806	346,849	284,282	249,186
15	5	05	Tools & Equipment	437	447	454	460
16	5	2S	Instal/Repl Fosil Gneratng Eqp	3,487	5,524	5,661	1,741
17	5	2T	Instl/Repl Fosi BldgGrndInfrst	1,588	109	-	
18	5	3A	Instl/Rpl for AltGen Safty&Reg	7	7	7	7
19	5	3B	Instal/Repl AltGen GneratngEqp	719	722	738	763
20		35	Sub-total Natural Gas and Solar Generation	6,238	6,809	6,859	2,972
21			Sub-total Power Generation	377,044	353,658	291,141	252,158
22	5	2F	Build IT Apps & Infra	11,465	11,925	12,297	12,676
23			Sub-total Energy Policy and Procurement	11,465	11,925	12,297	12,676
24			Sub-total Energy Suppy	400,823	372,873	305,842	266,297
	Care (Exhib				=		
25	6	05	Tools & Equipment	110	115	118	122
26	6	21	Misc Capital	110	115	118	122
27	6	25	Install New Electric Meters	28,992	30,279	31,140	31,636
28	6	74	Install New Gas Meters	82,311	83,789	85,073	86,334
29	6	2F	Build IT Apps & Infra	30,095	31,303	32,279	33,276
30			Sub-total Customer and Communications	141,619	145,601	148,729	151,489
Shared Se	rvices & IT	(Exhibit 7)					
31	7	2F	Build IT Apps & Infra	1,102	1,147	1,182	1,219
32			Sub-total Enterprise Health and Safety	1,102	1,147	1,182	1,219
33	7	04	Fleet / Auto Equip	113,116	117,656	121,324	125,071
34	7	05	Tools & Equipment	1,496	1,556	1,605	1,654
35	7	2F	Build IT Apps & Infra	1,543	1,605	1,655	1,706
36			Sub-total Transportation and Aviation Services	116,156	120,818	124,584	128,432
37	7	05	Tools & Equipment	669	695	717	739
38	7	21	Misc Capital	654	680	702	723
39			Sub-total Materials	1,323	1,376	1,419	1,463
40	7	22	Maintain Buildings	41,009	46,002	46,034	32,672
41	7	23	Implement RealEstate Strategy	99,788	155,878	152,351	141,578
42			Sub-total Real Estate	140,797	201,880	198,385	174,250
43	7	05	Tools & Equipment	331	344	355	366
44	7	12	Implement Environment Projects	8,066	8,390	8,651	8,919
45		25	Sub-total Land and Environmental	8,397	8,734	9,006	9,284
	7	2F	Build IT Apps & Infra	2,205	2,293	2,365	2,438
46			Sub-total ERIM	2,205	2,293	2,365	2,438
47				269,980	336,247	336,941	317,085
47 48	7	25	Sub-total Shared Services				246 700
47 48 49	7	2F	Build IT Apps & Infra	286,509	298,007	307,297	316,789
47 48 49 50			Build IT Apps & Infra Sub-total Information Technology	286,509 286,509	298,007 298,007	307,297 307,297	316,789
47 48 49 50 51	7	2F	Build IT Apps & Infra Sub-total Information Technology Build IT Apps & Infra	286,509 286,509 32,834	298,007 298,007 34,152	307,297 307,297 35,217	316,789 36,305
47 48 49 50 51 52			Build IT Apps & Infra Sub-total Information Technology Build IT Apps & Infra Security Install/Replace	286,509 286,509 32,834 14,690	298,007 298,007 34,152 15,280	307,297 307,297 35,217 15,756	316,789 36,305 16,243
47 48 49 50 51	7	2F	Build IT Apps & Infra Sub-total Information Technology Build IT Apps & Infra	286,509 286,509 32,834	298,007 298,007 34,152	307,297 307,297 35,217	316,789 36,305

Line No.	Exhibit	MWC	MWC Description	2023 Imputed Adopted	2024 Imputed Adopted	2025 Imputed Adopted	2026 Imputed Adopted
Human R	esources (Ex	(hibit 8)					
56	8	05	Tools & Equipment	31	32	33	34
57	8	22	Maintain Buildings	1,072	1,115	1,150	1,185
58			Sub-total Human Resources	1,102	1,147	1,182	1,219
Administ	rative and G	eneral (Ex	hibit 9)				
59	9	2F	Build IT Apps & Infra	551	573	591	609
60	9		Sub-total Risk, Audit and Insurance	551	573	591	609
61	9	2F	Build IT Apps & Infra	551	573	591	609
62	9		Sub-total Compliance & Ethics	551	573	591	609
63	9	2F	Build IT Apps & Infra	1,654	1,720	1,774	1,828
64	9		Sub-total Regulatory Affairs	1,654	1,720	1,774	1,828
65			Sub-total Administrative and General	2,756	2,867	2,956	3,047