

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.07		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.07		
Request Date:	August 27, 2024	Response Date:	October 1, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Moshreq Sobhy

QUESTION CPUC-PGE-AU.07

Please Provide the CPUC all of PG&E’s Responses to all information and data requests from other parties and participants related to the Rate Year 2025 Draft Annual Update (“RY2025”). Please also include any attachments to those responses.

ANSWER CPUC-PGE-AU.07

PG&E will continue to provide its responses to all information requests to interested parties for the Rate Year 2025 Annual Update.

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.08		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.08		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones/ George Kataoka

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.08

Please provide a list of all POs to which tower coating and/or cathodic protection costs are recorded and the FERC account(s) to which said costs are recorded.

ANSWER CPUC-PGE-AU.08

Tower Coating Program costs are recorded to Planning Order 5549743 “Tower Coating Program Capital.”

Cathodic Protection Program costs are recorded to Planning Order 5547633 “Cathodic Protection Installs.”

For recorded plant additions by FERC Plant Accounts, refer to PG&E’s response to FERC-TO21-IR-CPUC-PGE-03-AU.136.

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.09		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.09		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.09

Please provide PG&E’s authorized AFUDC rates for each year from 2020 to 2024. To the extent forecast AFUDC rates for 2025 and later years are available, please provide those as well.

ANSWER CPUC-PGE-AU.09

Please refer to the following attachments:

- FERC-TO21-IR-CPUC-PGE-03-AU.09_Atch01:
 - o From TO20-RY2023 discovery (RY2023-IR-SixCities-PGE-01-AU.1.12Atch01); Recorded rates for 2020 and 2021
- FERC-TO21-IR-CPUC-PGE-03-AU.09_Atch02:
 - o From TO20-RY2024 discovery (IR-SixCities-PGE-012Atch01_REV01); Recorded rates for 2022

For 2023 recorded rates, refer to PG&E’s response to TO21-RY2025 discovery: FERC-TO21_DR_SixCities-PGE-01-AU.23_Atch01 (not attached to this data request).

2024 and 2025 recorded rates are not in scope of TO21-RY2025. However, they can be provided in both the AFUDC workpaper (WP_AFUDC) and through data request responses in TO21-RY2026 and TO21-RY2027 Annual Updates, respectively.

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.10		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.10		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.10

For each year from 2020 through 2024, please provide the average percentage of AFUDC costs to total FERC-jurisdictional transmission project costs.

OBJECTION TO CPUC-PGE-AU.10

PG&E objects to this data request as it is overly burdensome, partially out of scope, and not reasonably calculated to lead to the discovery of information relevant to the scope of RY2025 Annual Update. Additionally, providing a general average percentage as requested is not an accurate measure to apply for analyses. For example, factors include proportion of projects with construction less than or greater than 30 days, projects ineligible for AFUDC, CWIP balances (i.e., capital expenditures from prior years), SAP high level adjustments, project deferrals and cancellations, and different AFUDC rates applied each period.

ANSWER CPUC-PGE-AU.10

Subject to and without waiving these objections, PG&E provides the following information and notes that the values shown below are estimations and are inclusive of FERC and non-FERC-jurisdictional transmission costs. Additionally, the costs do not include SAP high level adjustments and any other applicable adjustments. Total Capital Expenditures are recorded costs from the respective year, it does not reflect recorded CWIP balances.

Recorded Electric Transmission Costs				
	AFUDC		Total Capital Expenditures	
2020	\$	105,787,338	\$	1,971,819,470
2021	\$	73,218,004	\$	2,314,324,696
2022	\$	93,053,205	\$	2,394,315,496
2023	\$	91,352,264	\$	2,077,188,521

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.11		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.11		
Request Date:	August 27, 2024	Response Date:	October 1, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Jason Hong

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.11

Please explain how PG&E is accounting for land easements under the Financial Accounting Board’s ASC 842.

ANSWER CPUC-PGE-AU.11

PG&E does not have any land easements accounted for under ASC 842.

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.12		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.12		
Request Date:	August 27, 2024	Response Date:	October 1, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Nikki Apura/ George Kataoka

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.12

Does PG&E include a cost-of-removal component on land and right of way acquisitions? If so, please explain why.

ANSWER CPUC-PGE-AU.12

PG&E does not include cost of removal for the transmission land asset class (ETP35001) and right of way asset class (ETP35002).

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.13		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.13		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norozui

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.13

For PO 5554010, “ROW San Miguel-Paso Robles 70kV Ph. 2”, 2025 capital additions are shown as “96,085.” Please explain the work performed under this PO.

ANSWER CPUC-PGE-AU.13

This is a land-specific planning order to capture external costs for the right-of-way and land acquisition activities for the San Miguel-Paso Robles 70kV Ph. 2 Reconductoring project.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.14		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.14		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.14

For PO 5554010, “ROW San Miguel-Paso Robles 70kV Ph. 2”, please explain why WP_9, Tab 2 includes a cost of removal/depreciation expense for this PO.

ANSWER CPUC-PGE-AU.14

WP_9-PlantAdditions Tab 2 calculates forecasted cost of removal spend as an estimated portion of the total capital expenditures from WP_9 Tab 1 by planning order. This applies to all planning orders in Tab 1 and is only for forecasting purposes (subject to TO21 true-ups). A composite Electric Transmission cost of removal factor of 6.72% is applied in TO21-RY2025 Draft WP_9 Tab 2, as shown in Column G (“COR %”). In WP_9 Tab 7, the derivation of this composite factor is presented. An explanation of this is also provided below.

The composite cost of removal factor for Electric Transmission Plant (ETP) is calculated by dividing the 5-year total of recorded Cost of Removal spending by the 5-year total of recorded Capital Expenditures. The recorded Cost of Removal amounts were extracted from PowerPlan, PG&E's fixed asset system of record, by querying by Asset Class. The recorded Capital Expenditure amounts were extracted from SAP by querying by Funding ID and Major Work Category and were then allocated to Asset Class using the settlement to Asset Class of 5 to 6 years of historical plant additions. The recorded plant additions data was extracted from PowerPlan by querying by Asset Class.

This composite cost of removal factor is only for TO21 incremental transmission revenue requirements (ITRR) purposes. It does not impact recorded amounts or accounting transactions in PowerPlan. Once each work order under these planning orders have finalized job estimates and settlement rules, the specific breakout of plant additions versus cost of removal is applied in PowerPlan. The impacts to recorded Plant and Accumulated Depreciation are included on a recorded basis subject to true-up in TO21 Annual Updates.

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.15		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.15		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.15

For PO 5554011, “ROW Union-San Miguel/Paso Robles 70kV”, 2024 capital additions are shown as “40,877” and 2025 capital additions are “391,013.” Please explain the work performed under this PO.

ANSWER CPUC-PGE-AU.15

This is a land-specific planning order to capture external costs for the right-of-way and land acquisition activities for the new 10.5 mile double-circuit Union-San Miguel/Paso Robles 70kV transmission line project.

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FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.16		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.16		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.16

For PO 5554011, “ROW Union-San Miguel/Paso Robles 70kV”, please explain why WP_9, Tab 2 includes a cost of removal amount for this PO.

ANSWER CPUC-PGE-AU.16

Refer to PG&E’s response to FERC-TO21-IR-CPUC-PGE-03-AU.14.

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.17		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.17		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.17

For PO 5747763, “East Shore-Oakland J 115 kV Reconductor”, the “Operative Month” is shown as “Sep-23.” Please explain the purpose of the 2024 and 2025 capital additions of “91,282” and “825,557”, respectively.

ANSWER CPUC-PGE-AU.17

Under PO 5747763, the East Shore-Oakland J 115 kV Reconductor portion of the scope went operative in September 2023. The remaining work under PO 5747763 are IT work and completing substation work at Edes Sub.

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.18		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.18		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.18

For PO 5756012, “Warnerville-Bellota 230 kV line reconduct”, the “Operative Month” is shown as “Apr-23.” Please explain the purpose of the 2024 and 2025 capital additions of “3,256,324” and “227,628”, respectively.

ANSWER CPUC-PGE-AU.18

We have adjusted our forecasts and removed the 2024 and 2025 capital additions.

**PACIFIC GAS AND ELECTRIC COMPANY
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FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.19		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.19		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.19

For PO 5523424, “Purchase Land New Substations Non-Compet”, with 2025 capital additions of “559,699”, please:

- a. Identify the location of the land procured, including acreage and purpose.
- b. If the land is for a new or expanded substation, please identify the substation and the project number for the substation development.

ANSWER CPUC-PGE-AU.19

- a. The land is about 9 acres located at the SE corner of Cottonwood and East White Lane (east of Cottonwood and south of the projected White lane dirt road). This will be used for the low side voltage 115kv BAAH of the new Casa Loma substation.
- b. This land for a new substation – Casa Loma Substation PO 5767215

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PG&E Information Request No.:	CPUC-PGE-AU.20		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.20		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.20

For PO 5523424, “Purchase Land New Substations Non-Compet”, please:

- a. Explain whether this new land acquisition will be used by other parts of the company (e.g., electric distribution).
- b. If so, please identify the costs allocated to those lines of business.

ANSWER CPUC-PGE-AU.20

This land will be used only by Electric Transmission

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PG&E Information Request No.:	CPUC-PGE-AU.21		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.21		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.21

For PO 5523424, “Purchase Land New Substations Non-Compet”, please explain why PG&E has included in WP_9, Tab 2, a cost of removal amount of “40,301”.

ANSWER CPUC-PGE-AU.21

Refer to PG&E’s response to FERC-TO21-IR-CPUC-PGE-03-AU.14.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.22		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.22		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.22

For PO 5553459, “Land Purchase for 70KV Substation”, with 2025 capital additions of “387,769”, please:

- a. Identify the location of the land procured, including acreage and purpose.
- b. If the land is for a new or expanded substation, please identify the substation and the project number for the substation development.

ANSWER CPUC-PGE-AU.22

a. Grid Coordinates: 35°38'5.39"N (latitude) 120°36'0.04"W (longitude), approximately 5 miles east of the existing Paso Robles Substation

County: San Luis Obispo County

Procurement of 4.38 acres for use as the location of the new Union 70kV Switchyard, including a buffer area beyond the fence line for full maintenance capabilities

b. This land procurement order is for a new 70kV switchyard titled Union Substation, the main planning order capturing all other costs is 5767207.

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PG&E Information Request No.:	CPUC-PGE-AU.23		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.23		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.23

For PO 5553459, “Land Purchase for 70KV Substation”, please:

- a. Explain whether this new land acquisition will be used by other parts of the company (e.g., electric distribution).
- b. If so, please identify the costs allocated to those lines of business.

ANSWER CPUC-PGE-AU.23

- a. There will be room in the substation for electric distribution facilities for future use; however this project will not be installing distribution equipment
- b. No costs on this project are allocated to electric distribution or other lines of business.

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.24		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.24		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.24

For PO 5553459, “Land Purchase for 70KV Substation”, please explain why PG&E has included in WP_9, Tab 2, a cost of removal amount of “27,921”.

ANSWER CPUC-PGE-AU.24

Refer to PG&E’s response to FERC-TO21-IR-CPUC-PGE-03-AU.14.

PACIFIC GAS AND ELECTRIC COMPANY
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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.25		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.25		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.25

For PO 5523422, “Purchase Land for New Transmission Line”, with 2025 capital additions of “932,831”, please:

- a. Identify the location of the land procured, including acreage and length.
- b. If the land is for a new or expanded transmission line, please identify the line and the project number for the line development.

ANSWER CPUC-PGE-AU.25

- a. No land has been purchased to date for new Transmission Line, the 2025 land acquisition forecast has been pushed out to 2026 while the project is re-planned.
- b. Below are the current line names in GIS. However, after completion of the project, the line names will be updated. The order numbers may be updated once ISD by line is forecasted. If a single circuit of a double circuit line comes into service a few months apart we may have to add an order number so each circuit has its own.
 - Kern PP-Stockdale 230kV #1 (5767236)
 - Kern-Stockdale-Lamont 115kV #1 (5767235)
 - Adobe SW Sta Tap #1 (5767234)
 - Wheeler Ridge-Adobe SW Sta 115kV (5767234)

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.26		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.26		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.26

For PO 5523422, “Purchase Land for New Transmission Line”, please:

- a. Explain whether this new land acquisition will be used by other parts of the company (e.g., electric distribution).
- b. If so, please identify the costs allocated to those lines of business.

ANSWER CPUC-PGE-AU.26

The shoofly used for the project may be used by distribution following project completion. However, this scope is still in development. Also, there may or may not be land acquired for the shoofly portion of the project, as the scoping and design progress the land needs will be finalized. Costs are unknown as they are pending scope development.

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.27		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.27		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.27

For PO 5523422, “Purchase Land for New Transmission Line”, please explain why PG&E has included in WP_9, Tab 2, a cost of removal amount of “67,169”.

ANSWER CPUC-PGE-AU.27

Refer to PG&E’s response to FERC-TO21-IR-CPUC-PGE-03-AU.14.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.28		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.28		
Request Date:	August 27, 2024	Response Date:	September 20, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.28

For PO 5554308, “Plainfield: Expand Yard”, 2024 and 2025 capital additions of “407,433” and “2,090,773”, respectively, are shown. Please describe the work performed under this PO, including the acquisition of any land.

ANSWER CPUC-PGE-AU.28

2024 Capital Additions will end up being approximately \$25K. This is basic environmental and land rights support, project support to maintain the project in our systems and overheads. The 2025 Capital Addition is estimated to be about \$600K for costs associated with land rights, appraisals, fees and land costs to be paid to the property owner. The remaining 2025 plan of \$1.4M is contingency only and will only be spent in the event the cost of land rights increase.

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Data Response

PG&E Information Request No.:	CPUC-PGE-AU.29		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.29		
Request Date:	August 27, 2024	Response Date:	September 20, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.29

For PO 5554308, “Plainfield: Expand Yard”, to the extent land was acquired, please provide the date procured and identify the location of the land procured, including acreage.

ANSWER CPUC-PGE-AU.29

PG&E has not procured the land yet as the process is pending, resolving questions on this issue raised by the CPUC and subsequently from Cal Advocates. Once PG&E is able to address these questions satisfactorily and there is higher confidence in PTC approval from CPUC, PG&E will start the acquisition process.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.30		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.30		
Request Date:	August 27, 2024	Response Date:	September 20, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.30

For PO 5554308, “Plainfield: Expand Yard”, please:

- a. Explain whether this expanded yard will be used by other parts of the company (e.g., electric distribution).
- b. If so, please identify the costs allocated to those lines of business.

ANSWER CPUC-PGE-AU.30

The expanded yard is not intended for use by other parts of the company. The expansion is only to facilitate the current project plan and ultimate site plan as well as a stormwater retention pond to meet Yolo County requirements for stormwater retention to prevent downstream impacts.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.31		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.31		
Request Date:	August 27, 2024	Response Date:	September 20, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.31

For PO 5554308, “Plainfield: Expand Yard”, to the extent the 2024 and 2025 capital additions represent land purchases, please explain why PG&E has included in WP_9, Tab 2, a cost of removal amount of “29,337” and “150,546” for 2024 and 2025 respectively.

ANSWER CPUC-PGE-AU.31

Refer to PG&E’s response to FERC-TO21-IR-CPUC-PGE-03-AU.14.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.32		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.32		
Request Date:	August 27, 2024	Response Date:	September 20, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Vanith Biddappa

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.32

For PO 5791860, “EMS FEP SFGO Circuit Rerouting”, please describe any additional functionality or increased capacity provided to the grid from this project.

ANSWER CPUC-PGE-AU.32

The existing legacy DSO circuits were no longer supported (legacy copper wires) and upgrade to the new technology with new connection was needed due to sale of the 45 Main Street and 77 Beale Street SFGO property to meet PG&E’s safety and grid stability requirements.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.33		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.33		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Nikki Apura/ Vanith Biddappa/ George Kataoka

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.33

For PO 5791860, “EMS FEP SFGO Circuit Rerouting”, to the extent the costs are incurred because of the sale of the 45 Beale Street Building, please explain why PG&E is not treating the cost of the circuit rerouting as other moving-related costs.

ANSWER CPUC-PGE-AU.33

The existing legacy DSO circuits present at 45 Beale Street SFGO property were no longer supported (legacy copper wires) and needed to be upgraded to the new technology by replacing the existing assets by installing new assets such as routers, switches and RTUs in the location with updated new connection links to meet PG&E’s safety and grid stability requirements. Installation of new capital assets is treated as capital costs.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.34		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.34		
Request Date:	August 27, 2024	Response Date:	October 2, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.34

For PO 5768208, “PEASE: Reconfigure 115 KV Bus to BAAH”, the “Operative Month” is shown as “Dec-2020”, and 2024 and 2025 capital additions of “599,162” and “222,169”, respectively, are shown. Please explain the need for these expenses after the project has been in service for more than three years.

ANSWER CPUC-PGE-AU.34

While the BAAH went into service in December 2020, there was extensive work that followed, including the 60kV bus reconfiguration, MPAC enclosure commissioning, etc. As-Built activities wrapped up Q2 2024, and we expect to financially close the project by the end of 2024.

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.35		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.35		
Request Date:	August 27, 2024	Response Date:	October 2, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.35

For PO 5747877, “TABLE MOUNTAIN: Replace 500 KV BK 1”, the “Operative Month” is shown as “Nov-21”, and 2024 and 2025 capital additions of “53,602” and “1,302,706”, respectively, are shown. Please explain the need for these expenses after the project has been in service for more than three years.

ANSWER CPUC-PGE-AU.35

The close-out activities remaining is to demolish the old transformer bank.

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.36		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.36		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.36

For PO 5768820, “Wilson 115kV STATCOM”, the “Operative Month” is shown as “May-21”, and 2024 and 2025 capital additions of “1,671,903” and “1,206,797”, respectively are shown. Please explain the need for these expenses after the project has been in service for more than three years.

ANSWER CPUC-PGE-AU.36

The 2024 and 2025 capital additions are needed to continue addressing a station service safety issue and to close out the project.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.37		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.37		
Request Date:	August 27, 2024	Response Date:	October 2, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.37

For PO 5767919, “TABLE MOUNTAIN: Repl 500 KV CAP on BK 3”, the “Operative Month” is shown as “Aug-22”, and 2024 and 2025 capital additions of “380,854” and “19,250”, respectively, are shown. Please explain the need for these expenses after the project has been in service for more than two years.

ANSWER CPUC-PGE-AU.37

The remaining funding is needed to retrofit the Kirk Key Interlock system for the 500kV switches associated with the 500kV cap bank # 3, as an enhanced safety measure to mitigate a potential safety risk with mis-operation of the 500kV switches.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.38		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.38		
Request Date:	August 27, 2024	Response Date:	September 20, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.38

For PO 5732884, “HUMB BAY-HUMB #1 RE-CONDUCTOR LINE”, the “Operative Month” is shown as “Nov-22”, and 2024 and 2025 capital additions of “203,154” and “99,123”, respectively, are shown. Please explain the need for these expenses after the project has been in service for more than two years.

ANSWER CPUC-PGE-AU.38

T.0000106 Humboldt Bay - Humboldt #1 Line Reconductoring project is operative as November 2022. However additional funds for 2024 and 2025 are needed to support environmental monitoring and reporting for vegetation restoration in areas impacted by the project. As part of the permitting approval, PG&E is subjected to restore these areas as a condition for compliance.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.39		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.39		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Capital Accounting/ Manuel Mandujano

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.39

For PO 5803459, “Los Banos: Remv Abandon 230kV SWBD/RLYS”, the “Operative Month” for this PO is “Aug-25” and 2025 capital additions of \$472,563 are shown. Please explain why PG&E is treating the cost of removing abandoned equipment as a new capital addition.

ANSWER CPUC-PGE-AU.39

Upon review, PG&E confirms that Planning Order 5803459 is currently only for cost of removal work and that the forecasted capital expenditures should not be as capital additions. PG&E will correct this by manually overriding the value to 100% in Excel Column G in WP_9-PlantAdditions, Tab 2 for this specific Planning Order in the TO21-RY2025 December Annual Update. This will ensure all of the forecasted capital expenditures will be cost of removal spend instead of any capital additions.

Removal of the abandoned equipment for the Los Banos 230kV Switchboard and Relays equipment was capitalized to support the removal of idle facilities.

When the 230kV MPAC building was installed the old protective relays and switchboard equipment remained in the existing 500kV control building. After the MPAC project completed it was observed that the relays and switchboards had been abandoned. A Corrective Action Plan (CAP) was initiated to remove the idle facilities that were abandoned after the MPAC project had installed new relays.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.40		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.40		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Michelle Sakamoto

SUBJECT: CAPITAL ADDITIONS

All questions below refer to Draft WP_9-PlantAdditions_TO_RY2025, Tab “4” (WP_9, Tab 4), unless otherwise indicated.

QUESTION CPUC-PGE-AU.40

For PO 5508839, “Emergency Response Fire-Related”, 2024 capital additions of \$284,648 are shown. Please:

- a. Describe the emergency fire-related work performed under this PO, including which fire the work is related to,
- b. Explain why this is treated as a capital project instead of an Operations and Maintenance expense.

ANSWER CPUC-PGE-AU.40

- a. PO 5508839 is a standing bucket order for fire related emergency response. Typically, work in this order includes structure and insulator replacement, after fire damage occurs. Specific fires associated with work in this bucket vary.
- b. PO 5508839 costs are considered capital expenditures since they involve replacement of capitalized assets such as wood poles and insulators.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.41		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.41		
Request Date:	August 27, 2024	Response Date:	October 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

Questions 41 to 46 refer to PO 5785879, “Drum PH 1: Replace SW363 Structure-WSIP”, with 2024 and 2025 capital additions of \$7,732,817 and \$13,312 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project T/Dist	Cost Element	Fiscal year	Overall Result	2019	2020	2021	2022	2023	2024
				Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual	Total Actual	Total Actual	Total Actual
5785879	DrumPH 1: Replace SW363 Structure-WSIP	T.0004814		\$	\$	\$	\$	\$	\$	\$
		Order Financial Costs		6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
		Order Costs-Directs & Credits		6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
		Activity Type Total		861,097	19,721	799,292	25,863	2,432	6,59	13,131
		Material Total		760,599		645,009	113,959	1,485	1,46	
		Contract Total		1,282,679	26,734	1,296,946	(73,318)	26,407	2,639	3,272
		Order Other Costs		3,100,020	39,518	2,047,572	387,564	359,166	127,811	147,388
		Other Cost Elements		144,165	(144)	147,295	(2,457)		(1,46)	(382)
		Employee Related		22,839	1,175	20,568	570	68		458
		Order Overheads		2,942,016	38,488	1,879,709	389,451	359,098	127,958	147,313
		Capitalized A&G		306,839	5,166	287,148	11,000	885	186	2,455
		Labor Overheads		1,018,496	22,249	949,130	30,416	3,005	858	12,837
		Other Overhead		532,424	10,021	491,202	24,716	1,354	375	4,757
		AFLDC Costs		1,084,257	1,052	152,229	323,319	353,854	126,539	127,264
		Percentages of Total Cost (Calculated by CPUC)								
		Activity Type Total		14.32%	22.94%	16.69%	5.70%	0.62%	0.50%	8.02%
		Material Total		12.65%	0.00%	13.47%	25.10%	0.38%	0.11%	0.00%
		Contract Total		21.33%	31.10%	27.08%	-16.15%	6.78%	2.01%	2.00%
		Other Costs and Overheads		33.67%	44.74%	39.58%	14.15%	1.36%	0.97%	12.29%
		AFLDC Costs		18.03%	1.22%	3.18%	71.20%	90.85%	96.41%	77.70%
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

QUESTION CPUC-PGE-AU.41

For PO 5785879, “Drum PH 1: Replace SW363 Structure-WSIP”, please quantify the project percentage of completion that occurred by year over the life of the project.

ANSWER CPUC-PGE-AU.41

See below for the project percentage of completion that occurred by year over the life of the project.

- 2019 – 5%
- 2020 – 60%
- 2021 – 5%

- 2022 – 0%
- 2023 – 0%
- 2024 – 0%
- 2025 – 30%

Currently, the project's operative month is scheduled in November 2025, depending on limited clearance availability. The financial forecast will be updated to reflect the latest schedule.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.42		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.42		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

Questions 41 to 46 refer to PO 5785879, “Drum PH 1: Replace SW363 Structure-WSIP”, with 2024 and 2025 capital additions of \$7,732,817 and \$13,312 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project T/Dist	Cost Element	Fiscal year	Overall Result Total Actual Amount	2019	2020	2021	2022	2023	2024
					Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual	Total Actual	Total Actual
5785879	DrumPH 1: Replace SW363 Structure-WSIP	T.0004814		\$	\$	\$	\$	\$	\$	\$
		Order Financial Costs		6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
		Orders Costs-Directs & Credits		6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
		Activity Type Total		861,097	19,721	799,292	25,863	2,432	659	13,131
		Material Total		760,599		645,009	113,959	1,485	146	
		Contract Total		1,282,679	26,734	1,296,946	(73,318)	26,407	2,639	3,272
		Order Other Costs		3,100,020	39,518	2,047,572	387,564	359,166	127,811	147,388
		Other Cost Elements		144,165	(144)	147,295	(2,457)		(146)	(382)
		Employee Related		22,839	1,175	20,568	570	68		458
		Order Overheads		2,942,016	38,488	1,879,709	389,451	359,098	127,958	147,313
		Capitalized A&G		306,839	5,166	287,148	11,000	885	186	2,455
		Labor Overheads		1,018,496	22,249	949,130	30,416	3,005	858	12,837
		Other Overhead		532,424	10,021	491,202	24,716	1,354	375	4,757
		AFUDC Costs		1,084,257	1,052	152,229	323,319	353,854	126,539	127,264
		Percentages of Total Cost (Calculated by CPUC)								
		Activity Type Total		14.32%	22.94%	16.69%	5.70%	0.62%	0.50%	8.02%
		Material Total		12.65%	0.00%	13.47%	25.10%	0.38%	0.11%	0.00%
		Contract Total		21.33%	31.10%	27.08%	-16.15%	6.78%	2.01%	2.00%
		Other Costs and Overheads		33.67%	44.74%	39.58%	14.15%	1.36%	0.97%	12.29%
		AFUDC Costs		18.03%	1.22%	3.18%	71.20%	90.85%	96.41%	77.70%
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

QUESTION CPUC-PGE-AU.42

For PO 5785879, “Drum PH 1: Replace SW363 Structure WSIP”, in 2021, AFUDC costs represented 71.2% of the total costs for this PO. For the cost elements “Activity Type Total”, “Material Total”, and “Contractor Total”, which represent 14.65% of 2021’s total PO costs, please describe in detail the work performed under each cost element.

ANSWER CPUC-PGE-AU.42

Activity Type Total – Labor costs for Construction, Project Management, Operations to meet and develop clearance/construction plan for remaining work that was expected to occur in 2021. Also, minimal Engineering and Material handling labor for ordering and receiving material for the second phase of work that was not already included in 2020 material shipment.

Material Total – Additional material received for second phase of work that was not originally included in 2020 material obtainment. This material was for shoo-fly of the Drum-Higgins line while removing CB 340 structure to ensure the line could remain in-service and for load-breaking switch attachments for SW 357 and 347 that had a long lead time.

Contract Total – This was a negative amount as final invoices came in and settled out with accrual bookings for work performed in 2020.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.43		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.43		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

Questions 41 to 46 refer to PO 5785879, “Drum PH 1: Replace SW363 Structure-WSIP”, with 2024 and 2025 capital additions of \$7,732,817 and \$13,312 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project T/Dist	Cost Element	Fiscal year	Overall Result Total Actual Amount	2019	2020	2021	2022	2023	2024
					Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual	Total Actual	Total Actual
5785879	DrumPH 1: Replace SW363 Structure-WSIP	T.0004814		\$	\$	\$	\$	\$	\$	\$
		Order Financial Costs		6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
		Order Costs-Directs & Credits		6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
		Activity Type Total		861,097	19,721	799,292	25,863	2,432	6,59	13,131
		Material Total		760,599		645,009	113,959	1,485	1,46	
		Contract Total		1,282,679	26,734	1,296,946	(73,318)	26,407	2,639	3,272
		Order Other Costs		3,100,020	39,518	2,047,572	387,564	359,166	127,811	147,388
		Other Cost Elements		144,165	(144)	147,295	(2,457)		(1,46)	(3,82)
		Employee Related		22,839	1,175	20,568	570	68		4,58
		Order Overheads		2,942,016	38,488	1,879,709	389,451	359,098	127,958	147,313
		Capitalized A&G		306,839	5,166	287,148	11,000	885	186	2,455
		Labor Overheads		1,018,496	22,249	949,130	30,416	3,005	8,58	12,837
		Other Overhead		532,424	10,021	491,202	24,716	1,354	3,75	4,757
		AFUDC Costs		1,084,257	1,052	152,229	323,319	353,854	126,539	127,264
		Percentages of Total Cost (Calculated by CPUC)								
		Activity Type Total		14.32%	22.94%	16.69%	5.70%	0.62%	0.50%	8.02%
		Material Total		12.65%	0.00%	13.47%	25.10%	0.38%	0.11%	0.00%
		Contract Total		21.33%	31.10%	27.08%	-16.15%	6.78%	2.01%	2.00%
		Other Costs and Overheads		33.67%	44.74%	39.58%	14.15%	1.36%	0.97%	12.29%
		AFUDC Costs		18.03%	1.22%	3.18%	71.20%	90.85%	96.41%	77.70%
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

QUESTION CPUC-PGE-AU.43

For PO 5785879, “Drum PH 1: Replace SW363 Structure WSIP”, in 2022, AFUDC costs represented 90.85% of the total costs for this PO. For the cost elements “Activity Type Total”, “Material Total”, and “Contractor Total”, which represent 7.78% of 2022’s total PO costs, please describe in detail the work performed under each cost element.

ANSWER CPUC-PGE-AU.43

Activity Type Total – minimal labor charges for maintaining job order and forecasts as well as engineering updating drawings.

Material Total – minimal material charges for minor, miscellaneous materials received.

Contract Total – camera security contract to watch over material staged at nearby substation.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.44		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.44		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

Questions 41 to 46 refer to PO 5785879, “Drum PH 1: Replace SW363 Structure-WSIP”, with 2024 and 2025 capital additions of \$7,732,817 and \$13,312 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project T/Dist	Cost Element	Fiscal year	Overall Result Total Actual Amount	2019	2020	2021	2022	2023	2024
					Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual	Total Actual	Total Actual
5785879	DrumPH 1: Replace SW363 Structure-WSIP	T.0004814		\$	\$	\$	\$	\$	\$	\$
		Order Financial Costs		6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
		Order Costs-Directs & Credits		6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
		Activity Type Total		861,097	19,721	799,292	25,863	2,432	6,59	13,131
		Material Total		760,599		645,009	113,959	1,485	1,46	
		Contract Total		1,282,679	26,734	1,296,946	(73,318)	26,407	2,639	3,272
		Order Other Costs		3,100,020	39,518	2,047,572	387,564	359,166	127,811	147,388
		Other Cost Elements		144,165	(144)	147,295	(2,457)		(1,46)	(382)
		Employee Related		22,839	1,175	20,568	570	68		458
		Order Overheads		2,942,016	38,488	1,879,709	389,451	359,098	127,958	147,313
		Capitalized A&G		306,839	5,166	287,148	11,000	885	186	2,455
		Labor Overheads		1,018,496	22,249	949,130	30,416	3,005	858	12,837
		Other Overhead		532,424	10,021	491,202	24,716	1,354	375	4,757
		AFUDC Costs		1,084,257	1,052	152,229	323,319	353,854	126,539	127,264
		Percentages of Total Cost (Calculated by CPUC)								
		Activity Type Total		14.32%	22.94%	16.69%	5.70%	0.62%	0.50%	8.02%
		Material Total		12.65%	0.00%	13.47%	25.10%	0.38%	0.11%	0.00%
		Contract Total		21.33%	31.10%	27.08%	-16.15%	6.78%	2.01%	2.00%
		Order Costs and Overheads		33.67%	44.74%	39.58%	14.15%	1.36%	0.97%	12.29%
		AFUDC Costs		18.03%	1.22%	3.18%	71.20%	90.85%	96.41%	77.70%
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

QUESTION CPUC-PGE-AU.44

For PO 5785879, “Drum PH 1: Replace SW363 Structure WSIP”, in 2023, AFUDC costs represented 96.41% of the total costs for this PO. For the cost elements “Activity Type Total”, “Material Total”, and “Contractor Total”, which represent 2.62% of 2023’s total PO costs, please

- Describe in detail the work performed under each cost element, and
- Provide the monthly accounting detail for 2023 for each cost element in the table above.

ANSWER CPUC-PGE-AU.44

- The work performed in 2023 under each cost element is as follows:
 - Activity Type Total – minimal labor charges for maintaining job order and forecasts.
 - Material Total – minimal material charges for minor, miscellaneous materials received.

- Contract Total –camera security contract to watch over material staged at nearby substation. Contract was transferred to a different project at the staging substation early in the year so charges stopped hitting this Drum project job order.

b. See below for the monthly accounting detail for 2023 for each cost element in the table above.

- January 2023

Cost Element	Cost element name	Val.in rep.cur.	Total Quanti	Documen	F	Fi
Activity Type	Engineering Services	154.7		01/05/2023	1	2023
Contract	Consult Svcs - Eng	-411.53		12/30/2022	1	2023
Contract	Consult Svcs - Eng	407.21		01/31/2023	1	2023
Contract	Consult Svcs - Eng	411.53		01/27/2023	1	2023
Contract	Consult Svcs - Other	-130.13		12/30/2022	1	2023
Contract	Consult Svcs - Other	161		01/31/2023	1	2023
Contract	Consult Svcs - Other	130.13		01/27/2023	1	2023
Contract	Engr/Dsgn & EPC	-140.41	0	12/30/2022	1	2023
Contract	Engr/Dsgn & EPC	173.72	0	01/31/2023	1	2023
Contract	Engr/Dsgn & EPC	163.83	0	01/27/2023	1	2023
Contract	Engr/Dsgn & EPC	293.83	0	01/27/2023	1	2023
Contract	Spoils & Other	28.93		01/26/2023	1	2023
Material	Working Stock	-55.69		01/26/2023	1	2023
Material	Working Stock	105.53		01/30/2023	1	2023
Material	Working Stock	78.35		02/01/2023	1	2023
OH - AFUDC	AFUDC-Borrowed	8,630.04		02/02/2023	1	2023
OH - AFUDC	AFUDC-Equity	22,795.50		02/02/2023	1	2023
OH - AFUDC	Capitalized A&G	42.76		01/26/2023	1	2023
OH - AFUDC	Capitalized A&G	0.85		01/30/2023	1	2023
OH - Labor	Paid Time Off	31.25		01/26/2023	1	2023
OH - Labor	Indir Labor - Elec	53.94		01/26/2023	1	2023
OH - Labor	Building Services OH	9.84		01/26/2023	1	2023
OH - Labor	Building Services OH	0.08		01/30/2023	1	2023
OH - Labor	IT Device OH	13.82		01/26/2023	1	2023
OH - Labor	IT Device OH	0.12		01/30/2023	1	2023
OH - Labor	Op Mgmt Supp - Elec	52.37		01/26/2023	1	2023
OH - Labor	Fleet OH - Elec	34.53		01/26/2023	1	2023
OH - Labor	Fleet OH - Elec	2.77		01/30/2023	1	2023
OH - Other	Benefits OH	65.26		01/26/2023	1	2023
OH - Other	Benefits OH	0.56		01/30/2023	1	2023
OH - Other	Payroll Taxes OH	19.14		01/26/2023	1	2023
OH - Other	Payroll Taxes OH	0.16		01/30/2023	1	2023
OH - Other	Minor Material OH	-4.01		01/26/2023	1	2023
OH - Other	Minor Material OH	7.16		01/30/2023	1	2023
OH - Other	Minor Material OH	4.95		02/01/2023	1	2023

- February

Cost Element	Cost element name	Val.in rep.cur.	Total Quanti	Documen	F	Fi
Activity Type	Analyst Services	325.75	5	02/07/2023	2	2023
Contract	Consult Svcs - Eng	-407.21		01/31/2023	2	2023
Contract	Consult Svcs - Eng	471.32		02/28/2023	2	2023
Contract	Consult Svcs - Eng	545.22		02/27/2023	2	2023
Contract	Consult Svcs - Other	-161		01/31/2023	2	2023
Contract	Consult Svcs - Other	186.35		02/28/2023	2	2023
Contract	Engr/Dsgn & EPC	-173.72	0	01/31/2023	2	2023
Contract	Engr/Dsgn & EPC	471.32	0	02/28/2023	2	2023
Contract	Engr/Dsgn & EPC	402.77	0	02/27/2023	2	2023
Contract	Spoils & Other	60.92		02/23/2023	2	2023
Material	Working Stock	-4.54		02/23/2023	2	2023
Material	Working Stock	22.64		03/01/2023	2	2023
OH - AFUDC	AFUDC-Borrowed	8,851.15		03/02/2023	2	2023
OH - AFUDC	AFUDC-Equity	22,803.63		03/02/2023	2	2023
OH - AFUDC	Capitalized A&G	91.83		02/23/2023	2	2023
OH - Labor	Paid Time Off	65.8		02/23/2023	2	2023
OH - Labor	Indir Labor - Elec	113.59		02/23/2023	2	2023
OH - Labor	Indir Labor - Elec	9.32		02/27/2023	2	2023
OH - Labor	Building Services OH	20.89		02/23/2023	2	2023
OH - Labor	Building Services OH	0.28		02/27/2023	2	2023
OH - Labor	IT Device OH	29.35		02/23/2023	2	2023
OH - Labor	IT Device OH	0.39		02/27/2023	2	2023
OH - Labor	Op Mgmt Supp - Elec	110.27		02/23/2023	2	2023
OH - Labor	Fleet OH - Elec	78.54		02/23/2023	2	2023
OH - Other	Benefits OH	138.55		02/23/2023	2	2023
OH - Other	Benefits OH	1.87		02/27/2023	2	2023
OH - Other	Payroll Taxes OH	40.64		02/23/2023	2	2023
OH - Other	Payroll Taxes OH	0.54		02/27/2023	2	2023
OH - Other	Minor Material OH	-0.29		02/23/2023	2	2023
OH - Other	Minor Material OH	1.43		03/01/2023	2	2023

- March 2023

Cost Element	Cost element name	Val.in rep.cur.	Total Quanti	Documen	F	Fi
Activity Type	Project Mgmt Svcs	89.25	1	03/21/2023	3	2023
Activity Type	Project Mgmt Svcs	89.25	1	03/23/2023	3	2023
Contract	Consult Svcs - Eng	-471.32		02/28/2023	3	2023
Contract	Consult Svcs - Eng	68.98		03/31/2023	3	2023
Contract	Consult Svcs - Eng	471.32		03/31/2023	3	2023
Contract	Consult Svcs - Other	-186.35		02/28/2023	3	2023
Contract	Consult Svcs - Other	26.8		03/31/2023	3	2023
Contract	Consult Svcs - Other	26.8		03/29/2023	3	2023
Contract	Consult Svcs - Other	186.35		03/31/2023	3	2023
Contract	Engr/Dsgn & EPC	-471.32	0	02/28/2023	3	2023
Contract	Engr/Dsgn & EPC	471.32	0	03/29/2023	3	2023
Contract	Spoils & Other	33.38		03/28/2023	3	2023
OH - AFUDC	AFUDC-Borrowed	8,853.44		04/04/2023	3	2023
OH - AFUDC	AFUDC-Equity	22,809.54		04/04/2023	3	2023
OH - AFUDC	Capitalized A&G	50.32		03/28/2023	3	2023
OH - Labor	Paid Time Off	36.06		03/28/2023	3	2023
OH - Labor	Indir Labor - Elec	67.35		03/28/2023	3	2023
OH - Labor	Indir Labor - Elec	-3.46		03/30/2023	3	2023
OH - Labor	Building Services OH	11.6		03/28/2023	3	2023
OH - Labor	Building Services OH	-0.1		03/30/2023	3	2023
OH - Labor	IT Device OH	16.3		03/28/2023	3	2023
OH - Labor	IT Device OH	-0.14		03/30/2023	3	2023
OH - Labor	Op Mgmt Supp - Elec	60.42		03/28/2023	3	2023
OH - Labor	Fleet OH - Elec	43.04		03/28/2023	3	2023
OH - Other	Benefits OH	76.95		03/28/2023	3	2023
OH - Other	Benefits OH	-0.69		03/30/2023	3	2023
OH - Other	Payroll Taxes OH	22.58		03/28/2023	3	2023
OH - Other	Payroll Taxes OH	-0.21		03/30/2023	3	2023
Other	Cost Adjust Excl OH	-146.29		03/13/2023	3	2023

- April 2023

Cost Element	Cost element name	Val.in rep.cur.	Total Quanti	Documen	F	Fi
Contract	Consult Svcs - Eng	-68.98		03/31/2023	4	2023
Contract	Consult Svcs - Eng	64.96		04/28/2023	4	2023
Contract	Consult Svcs - Eng	68.98		04/28/2023	4	2023
Contract	Consult Svcs - Other	-26.8		03/31/2023	4	2023
Contract	Consult Svcs - Other	25.98		04/28/2023	4	2023
Contract	Consult Svcs - Other	25.64		04/28/2023	4	2023
Contract	Engr/Dsgn & EPC	67.05	0	04/28/2023	4	2023
OH - AFUDC	AFUDC-Borrowed	8,984.84		05/02/2023	4	2023
OH - AFUDC	AFUDC-Equity	22,810.96		05/02/2023	4	2023

- May 2023

Cost Element	Cost element name	Val.in rep.cur.	Total Quanti	Documen	F	Fi
Contract	Consult Svcs - Eng	-64.96		04/28/2023	5	2023
Contract	Consult Svcs - Other	-25.98		04/28/2023	5	2023
Contract	Engr/Dsgn & EPC	-67.05	0	04/28/2023	5	2023

- June – December 2023: there were no charges.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.45		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.45		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

Questions 41 to 46 refer to PO 5785879, “Drum PH 1: Replace SW363 Structure-WSIP”, with 2024 and 2025 capital additions of \$7,732,817 and \$13,312 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project T/Dist	Fiscal year	Cost Element	Overall Result	2019	2020	2021	2022	2023	2024
				Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual	Total Actual	Total Actual	Total Actual
				\$	\$	\$	\$	\$	\$	\$
5785879	DrumPH 1: Replace SW363 Structure-WSIP	T.0004814	Order Financial Costs	6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
			Order Costs-Directs & Credits	6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
			Activity Type Total	861,097	19,721	799,292	25,863	2,432	6,59	13,131
			Material Total	760,599		645,009	113,959	1,485	1,46	
			Contract Total	1,282,679	26,734	1,296,946	(73,318)	26,407	2,639	3,272
			Order Other Costs	3,100,020	39,518	2,047,572	387,564	359,166	127,811	147,388
			Other Cost Elements	144,165	(144)	147,295	(2,457)		(1,46)	(3,82)
			Employee Related	22,839	1,175	20,568	570	68		4,58
			Order Overheads	2,942,016	38,488	1,879,709	389,451	359,098	127,958	147,313
			Capitalized A&G	306,839	5,166	287,148	11,000	885	186	2,455
			Labor Overheads	1,018,496	22,249	949,130	30,416	3,005	8,58	12,837
			Other Overhead	532,424	10,021	491,202	24,716	1,354	3,75	4,757
			AFUDC Costs	1,084,257	1,052	152,229	323,319	353,854	126,539	127,264
			Percentages of Total Cost (Calculated by CPUC)							
			Activity Type Total	14.32%	22.94%	16.69%	5.70%	0.62%	0.50%	8.02%
			Material Total	12.65%	0.00%	13.47%	25.10%	0.38%	0.11%	0.00%
			Contract Total	21.33%	31.10%	27.08%	-16.15%	6.78%	2.01%	2.00%
			Other Costs and Overheads	33.67%	44.74%	39.58%	14.15%	1.36%	0.97%	12.29%
			AFUDC Costs	18.03%	1.22%	3.18%	71.20%	90.85%	96.41%	77.70%
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

QUESTION CPUC-PGE-AU.45

For PO 5785879, “Drum PH 1: Replace SW363 Structure WSIP”, in 2024 YTD, AFUDC costs represented 77.70% of the total costs for this PO. For the cost elements “Activity Type Total”, “Material Total”, and “Contractor Total”, which represent 10.02% of 2024’s YTD total PO costs, please describe in detail the work performed under each cost element.

ANSWER CPUC-PGE-AU.45

AFUDC Costs – the project was taken out of Deferral status in February 2024 to allow job planning to commence. The decision was made on 6/28/2024 to make this PO operational since the Phase 1 work is complete and to move the remaining Phase 2 work to a separate planning order—in line with capital accounting advice—since the clearance for the Phase 2 work was extended to next year. Once the PO was made operational, AFUDC charges for this PO stopped accruing.

Activity Type Total –labor charges for maintaining job order and forecasts as well as Project Management/construction/Operations/Engineering to continue job/clearance planning for remaining work.

Material Total – No charges.

Contract Total – Contract Engineering invoices for job planning/re-issuing drawings support.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.46		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.46		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

Questions 41 to 46 refer to PO 5785879, “Drum PH 1: Replace SW363 Structure-WSIP”, with 2024 and 2025 capital additions of \$7,732,817 and \$13,312 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project T/Dist	Fiscal year	Cost Element	Overall Result	2019	2020	2021	2022	2023	2024
				Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual	Total Actual	Total Actual	Total Actual
				\$	\$	\$	\$	\$	\$	\$
5785879	DrumPH 1: Replace SW363 Structure-WSIP	T.0004814	Order Financial Costs	6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
			Order Costs-Directs & Credits	6,013,395	85,973	4,788,819	454,068	389,490	131,256	163,791
			Activity Type Total	861,097	19,721	799,292	25,863	2,432	6,59	13,131
			Material Total	760,599		645,009	113,959	1,485	1,46	
			Contract Total	1,282,679	26,734	1,296,946	(73,318)	26,407	2,639	3,272
			Order Other Costs	3,100,020	30,518	2,047,572	387,564	359,166	127,811	147,388
			Other Cost Elements	144,165	(144)	147,295	(2,457)		(1,46)	(382)
			Employee Related	22,839	1,175	20,568	570	68		458
			Order Overheads	2,942,016	38,488	1,879,709	389,451	359,098	127,958	147,313
			Capitalized A&G	306,839	5,166	287,148	11,000	885	186	2,455
			Labor Overheads	1,018,496	22,249	949,130	30,416	3,005	858	12,837
			Other Overhead	532,424	10,021	491,202	24,716	1,354	375	4,757
			AFLDC Costs	1,084,257	1,052	152,229	323,319	353,854	126,539	127,264
			Percentages of Total Cost (Calculated by CPUC)							
			Activity Type Total	14.32%	22.94%	16.69%	5.70%	0.62%	0.50%	8.02%
			Material Total	12.65%	0.00%	13.47%	25.10%	0.38%	0.11%	0.00%
			Contract Total	21.33%	31.10%	27.08%	-16.15%	6.78%	2.01%	2.00%
			Order Costs and Overheads	33.67%	44.74%	39.58%	14.15%	1.36%	0.97%	12.29%
			AFLDC Costs	18.03%	1.22%	3.18%	71.20%	90.85%	96.41%	77.70%
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

QUESTION CPUC-PGE-AU.46

For PO 5785879, “Drum PH 1: Replace SW363 Structure WSIP”, please:

- Provide the date(s) that PG&E placed this PO in deferral or “on hold” status, and
- Provide the dates any deferral was in effect.

ANSWER CPUC-PGE-AU.46

- This PO was placed in deferral or “on hold” status on 4/14/2023.
- The deferral on this PO was in effect from 4/14/2023 to 2/16/2024.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.47		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.47		
Request Date:	August 27, 2024	Response Date:	September 20, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Frankie Au-Yeung

SUBJECT: CAPITAL ADDITIONS

Questions 47 to 52 refer to PO 5766588, “Cascade: Install MPAC”, with 2024 and 2025 capital additions of \$13,218,230 and \$440,601 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project TIDat	Cost Element	Fiscal year	Overall Reval	2016	2017	2018	2019	2020	2021	2022	2023	2024
				Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount		
				\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
5766588	CASCADE: Install MPAC	T0000651	Order Financial Costs	11,334,572	306	50,952	417,553	6,227,070	1,458,534	990,844	853,134	1,004,558	331,620
			Order Costs-Directs & Credits	11,334,572	306	50,952	417,553	6,227,070	1,458,534	990,844	853,134	1,004,558	331,620
			Activity Type Total	484,772	116	13,630	33,571	37,824	198,537	114,167	19,099	67,796	31
			Material Total	5,156,231				5,048,706	91,911	11,837			3,776
			Contract Total	1,252,072		10,663	299,874	537,581	204,950	45,229	119,160	28,708	5,907
			Order Other Costs	4,441,498	190	26,660	84,109	602,959	963,136	819,610	714,875	904,277	325,682
			Other Cost Elements	-12,483				-10,691	807	-4,484	2,812	-927	
			Employee Related	16,557		51		1,267	678	5,321	5,675	3,564	
			Order Overheads	4,437,424	190	26,609	84,109	612,383	961,650	818,773	706,387	901,640	325,682
			Capitalized Ad&G	164,498	38	3,309	13,583	10,156	69,218	42,788	6,304	19,005	7
			Labor Overheads	549,698	85	14,327	37,899	42,566	228,187	115,901	21,619	89,077	36
			Other Overhead	605,513	47	7,305	18,253	371,762	108,483	52,388	8,387	38,874	14
			A/R/D/C Costs	3,117,714	20	1,578	14,374	187,899	555,763	607,696	670,076	754,684	325,625
			Percentages of Total Cost (Calculated by CPUC)										
			Activity Type Total	4.28%	37.91%	26.75%	8.04%	0.61%	13.61%	11.52%	2.24%	6.75%	0.01%
			Material Total	45.49%	0.00%	0.00%	0.00%	81.08%	6.30%	1.19%	0.00%	0.38%	0.00%
			Contract Total	11.05%	0.00%	20.93%	71.82%	8.63%	14.05%	4.56%	13.97%	2.86%	1.78%
			Other Costs and Overheads	11.68%	55.56%	40.23%	16.70%	6.67%	27.93%	21.39%	5.25%	14.89%	0.02%
			A/R/D/C Costs	27.51%	6.54%	3.10%	3.44%	3.02%	38.10%	61.33%	78.54%	75.13%	98.19%
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

QUESTION CPUC-PGE-AU.47

For PO 5766588, “Cascade: Install MPAC”, please quantify the project percentage of completion that occurred by year over the life of the project.

ANSWER CPUC-PGE-AU.47

At the time of the TPR pull, Cascade MPAC was projected to be in-service in 2024. As project progressed, the updated total EAC for PO 5766588 is \$13.125M. PG&E expects this project to be in service in 2025. Since project inception to the TPR pull, Cascade MPAC is ~86% completed.

Year	2016	2017	2018	2019	2020	2021	2022	2023	2024
Actual Expenditures	\$306	\$50,952	\$417,553	\$6,227,070	\$1,458,534	\$990,844	\$853,134	\$1,004,558	\$331,620
% Completion	0.00%	0.39%	3.18%	47.44%	11.11%	7.55%	6.50%	7.65%	2.53%

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.48		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.48		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Frankie Au-Yeung

SUBJECT: CAPITAL ADDITIONS

Questions 47 to 52 refer to PO 5766588, “Cascade: Install MPAC”, with 2024 and 2025 capital additions of \$13,218,230 and \$440,601 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project TIDat	Cost Element	Overall Revul Total Actual Amount	Fiscal year										
				2016 Total Actual Amount	2017 Total Actual Amount	2018 Total Actual Amount	2019 Total Actual Amount	2020 Total Actual Amount	2021 Total Actual Amount	2022 Total Actual Amount	2023 Total Actual Amount	2024 Total Actual Amount		
5766588	CASCADE: Install MPAC	T0000651	Order Financial Costs	11,334,572	306	50,952	417,553	6,227,070	1,458,534	990,844	853,134	1,004,558	331,620	
			Order Costs-Directs & Credits	11,334,572	306	50,952	417,553	6,227,070	1,458,534	990,844	853,134	1,004,558	331,620	
			Activity Type Total	484,772	116	13,630	33,571	37,824	198,537	114,167	19,099	67,796	31	
			Material Total	5,156,231				5,048,706	91,911	11,837		3,776		
			Contract Total	1,252,072		10,663	299,874	537,581	204,950	45,229	119,160	28,708	5,907	
			Order Other Costs	4,441,498	190	26,660	84,109	602,959	963,136	819,610	714,875	904,277	325,682	
			Other Cost Elements	-12,483				-10,691	807	-4,484	2,812	-927		
			Employee Related	16,557		51		1,267	678	5,321	5,675	3,564		
			Order Overheads	4,437,424	190	26,609	84,109	612,383	961,650	818,773	706,387	901,640	325,682	
			Capitalized Ad&G	164,498	38	3,309	13,583	10,156	69,218	42,788	6,304	19,005	7	
			Labor Overheads	549,698	85	14,327	37,899	42,566	228,187	115,901	21,619	89,077	36	
			Other Overhead	605,513	47	7,305	18,253	371,762	108,483	52,388	8,387	38,874	14	
			AFUDC Costs	3,117,714	20	1,578	14,374	187,899	555,763	607,696	670,076	754,684	325,625	
			Percentages of Total Cost (Calculated by CPUC)											
			Activity Type Total	4.28%	37.91%	26.75%	8.04%	0.61%	13.61%	11.52%	2.24%	6.75%	0.01%	
			Material Total	45.49%	0.00%	0.00%	0.00%	8.108%	6.30%	1.19%	0.00%	0.38%	0.00%	
			Contract Total	11.05%	0.00%	20.93%	71.82%	8.63%	14.05%	4.56%	13.97%	2.86%	1.78%	
			Other Costs and Overheads	11.68%	55.56%	40.23%	16.70%	6.67%	27.93%	21.39%	5.25%	14.89%	0.02%	
			AFUDC Costs	27.51%	6.54%	3.10%	3.44%	3.02%	38.10%	61.33%	78.54%	75.13%	98.19%	
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

QUESTION CPUC-PGE-AU.48

For PO 5766588, “Cascade: Install MPAC”, in 2021, AFUDC costs represented 61.33% of the total costs for this PO. For the cost elements “Activity Type Total”, “Material Total”, and “Contractor Total”, which represent 17.27% of 2021’s total PO costs, please describe in detail the work performed under each cost element.

ANSWER CPUC-PGE-AU.48

Activity Type include Labor for Civil and Electrical Work, Inspection & Engineering

Material Total: Payments towards the MPAC Building & Cable Riser

Contractor Total: Project Management Support, Engineering Contracts, Civil Contracts

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.49		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.49		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Frankie Au-Yeung

SUBJECT: CAPITAL ADDITIONS

Questions 47 to 52 refer to PO 5766588, “Cascade: Install MPAC”, with 2024 and 2025 capital additions of \$13,218,230 and \$440,601 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project TIDat	Cost Element	Fiscal year	Overall Revul	2016	2017	2018	2019	2020	2021	2022	2023	2024
				Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount		
5766588	CASCADE: Install MPAC	T0000651	Order Financial Costs	\$ 11,334,572	\$ 306	\$ 50,952	\$ 417,553	\$ 6,227,070	\$ 1,488,534	\$ 990,844	\$ 853,134	\$ 1,004,558	\$ 331,620
			Order Costs-Directs & Credits	11,334,572	306	50,952	417,553	6,227,070	1,488,534	990,844	853,134	1,004,558	331,620
			Activity Type Total	484,772	116	13,630	33,571	37,824	198,537	114,167	19,099	67,796	31
			Material Total	5,156,231				5,048,706	91,911	11,837		3,776	
			Contract Total	1,252,072		10,663	299,874	537,581	204,950	45,229	119,160	28,708	5,907
			Order Other Costs	4,441,498	190	26,660	84,109	602,959	963,136	819,610	714,875	904,277	325,682
			Other Cost Elements	-12,483				-10,691	807	-4,484	2,812	-927	
			Employee Related	16,557		51		1,267	678	5,321	5,675	3,564	
			Order Overheads	4,437,424	190	26,609	84,109	612,383	961,650	818,773	706,387	901,640	325,682
			Capitalized Ad&G	164,498	38	3,309	13,583	10,156	69,218	42,788	6,304	19,005	7
			Labor Overheads	549,698	85	14,327	37,899	42,566	228,187	115,901	21,619	89,077	36
			Other Overhead	605,513	47	7,305	18,253	371,762	108,483	52,388	8,387	38,874	14
			AFUDC Costs	3,117,714	20	1,578	14,374	187,899	555,763	607,696	670,076	754,684	325,625
			Percentages of Total Cost (Calculated by CPUC)										
			Activity Type Total	4.28%	37.91%	26.75%	8.04%	0.61%	13.61%	11.52%	2.24%	6.75%	0.01%
			Material Total	45.49%	0.00%	0.00%	0.00%	81.08%	6.30%	1.19%	0.00%	0.38%	0.00%
			Contract Total	11.05%	0.00%	20.93%	71.82%	8.63%	14.05%	4.56%	13.97%	2.86%	1.78%
			Other Costs and Overheads	11.68%	55.56%	40.23%	16.70%	6.67%	27.93%	21.39%	5.25%	14.89%	0.02%
			AFUDC Costs	27.51%	6.54%	3.10%	3.44%	3.02%	38.10%	61.33%	78.54%	75.13%	98.19%
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

QUESTION CPUC-PGE-AU.49

For PO 5766588, “Cascade: Install MPAC”, in 2022, AFUDC costs represented 78.54% of the total costs for this PO. For the cost elements “Activity Type Total”, “Material Total”, and “Contractor Total”, which represent 16.21% of 2022’s total PO costs, please describe in detail the work performed under each cost element.

ANSWER CPUC-PGE-AU.49

Activity Type includes Labor for Civil and Electrical Work, and Inspection

Material Total: None

Contractor Total: Project Management Support, Engineering Contracts, Civil Contracts, Security Devices Install, Electrical Inspection

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.50		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.50		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Frankie Au-Yeung

SUBJECT: CAPITAL ADDITIONS

Questions 47 to 52 refer to PO 5766588, “Cascade: Install MPAC”, with 2024 and 2025 capital additions of \$13,218,230 and \$440,601 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project TIDat	Cost Element	Fiscal year	Overall Revul	2016	2017	2018	2019	2020	2021	2022	2023	2024
				Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount		
5766588	CASCADE: Install MPAC	T0000651	Order Financial Costs	\$ 11,334,572	\$ 306	\$ 50,952	\$ 417,553	\$ 6,227,070	\$ 1,488,534	\$ 990,844	\$ 853,134	\$ 1,004,558	\$ 331,620
			Order Costs-Directs & Credits	\$ 11,334,572	\$ 306	\$ 50,952	\$ 417,553	\$ 6,227,070	\$ 1,488,534	\$ 990,844	\$ 853,134	\$ 1,004,558	\$ 331,620
			Activity Type Total	\$ 484,772	\$ 116	\$ 13,630	\$ 33,571	\$ 37,824	\$ 198,537	\$ 114,167	\$ 19,099	\$ 67,796	\$ 31
			Material Total	\$ 5,156,231				\$ 5,048,706	\$ 91,911	\$ 11,837		\$ 3,776	
			Contract Total	\$ 1,252,072		\$ 10,663	\$ 299,874	\$ 537,581	\$ 204,950	\$ 45,229	\$ 119,160	\$ 28,708	\$ 5,907
			Order Other Costs	\$ 4,441,498	\$ 190	\$ 26,660	\$ 84,109	\$ 602,959	\$ 963,136	\$ 819,610	\$ 714,875	\$ 904,277	\$ 325,682
			Other Cost Elements	\$ -12,483				\$ -10,691	\$ 807	\$ -4,484	\$ 2,812	\$ -927	
			Employee Related	\$ 16,557		\$ 51		\$ 1,267	\$ 678	\$ 5,321	\$ 5,675	\$ 3,564	
			Order Overheads	\$ 4,437,424	\$ 190	\$ 26,609	\$ 84,109	\$ 612,383	\$ 961,650	\$ 818,773	\$ 706,387	\$ 901,640	\$ 325,682
			Capitalized Ad&G	\$ 164,498	\$ 38	\$ 3,309	\$ 13,583	\$ 10,156	\$ 69,218	\$ 42,788	\$ 6,304	\$ 19,005	\$ 7
			Labor Overheads	\$ 549,698	\$ 85	\$ 14,327	\$ 37,899	\$ 42,566	\$ 228,187	\$ 115,901	\$ 21,619	\$ 89,077	\$ 36
			Other Overhead	\$ 605,513	\$ 47	\$ 7,305	\$ 18,253	\$ 371,762	\$ 108,483	\$ 52,388	\$ 8,387	\$ 38,874	\$ 14
			AFUDC Costs	\$ 3,117,714	\$ 20	\$ 1,578	\$ 14,374	\$ 187,899	\$ 555,763	\$ 607,696	\$ 670,076	\$ 754,684	\$ 325,625
			Percentages of Total Cost (Calculated by CPUC)										
			Activity Type Total	4.28%	37.91%	26.75%	8.04%	0.61%	13.61%	11.52%	2.24%	6.75%	0.01%
			Material Total	45.49%	0.00%	0.00%	0.00%	81.08%	6.30%	1.19%	0.00%	0.38%	0.00%
			Contract Total	11.05%	0.00%	20.93%	71.82%	8.63%	14.05%	4.56%	13.97%	2.86%	1.78%
			Other Costs and Overheads	11.68%	55.56%	40.23%	16.70%	6.67%	27.93%	21.39%	5.25%	14.89%	0.02%
			AFUDC Costs	27.51%	6.54%	3.10%	3.44%	3.02%	38.10%	61.33%	78.54%	75.13%	98.19%
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

QUESTION CPUC-PGE-AU.50

For PO 5766588, “Cascade: Install MPAC”, in 2023, AFUDC costs represented 75.13% of the total costs for this PO. For the cost elements “Activity Type Total”, “Material Total”, and “Contractor Total”, which represent 9.99% of 2023’s total PO costs, please:

- a. Describe in detail the work performed under each cost element, and
- b. Provide the monthly accounting detail for 2024 for each cost element in the table above.

ANSWER CPUC-PGE-AU.50

a. Activity Type includes Labor for Electrical Work, and Inspection

Material Total: Misc Small Materials

Contractor Total includes: Project Management Support and Engineering Contracts

	Jan 2023 Actual Amt	Feb 2023 Actual Amt	Mar 2023 Actual Amt	Apr 2023 Actual Amt	May 2023 Actual Amt	Jun 2023 Actual Amt	Jul 2023 Actual Amt	Aug 2023 Actual Amt	Sep 2023 Actual Amt	Oct 2023 Actual Amt	Nov 2023 Actual Amt	Dec 2023 Actual Amt
Cost Element	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
[-] Order Financial Costs	76,165	64,784	61,910	62,978	66,748	72,437	246,411	79,600	71,526	65,621	66,096	70,281
[-] Orders Costs-Directs & Credits	76,165	64,784	61,910	62,978	66,748	72,437	246,411	79,600	71,526	65,621	66,096	70,281
[-] Activity Type Total	2,911	228			1,483	1,324	56,743	3,683	854		263	308
[-] Material Total	3,240	40					496					
[-] Contract Total	2,957	3,423	1,272	1,663	802	6,692	-56	3,814	3,965	479	231	3,468
[-] Order Other Costs	67,057	61,094	60,638	61,316	64,464	64,421	189,228	72,103	66,707	65,142	65,601	66,506
[-] Other Cost Elements			-927									
[-] Employee Related	475		949	438	438	438	825					
[-] Order Overheads	66,583	61,094	60,617	60,877	64,025	63,982	188,402	72,103	66,707	65,142	65,601	66,506
[-] Capitalized A&G	821	64			418	373	15,996	1,038	222		46	27
[-] Labor Overheads	3,760	300			1,893	1,868	75,354	4,228	980		304	391
[-] Other Overhead	1,881	130			813	787	32,599	1,781	384		105	395
[-] AFUDC Costs	60,122	60,600	60,617	60,877	60,902	60,954	64,453	65,056	65,121	65,142	65,146	65,694

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.51		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.51		
Request Date:	August 27, 2024	Response Date:	October 2, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Frankie Au-Yeung

SUBJECT: CAPITAL ADDITIONS

Questions 47 to 52 refer to PO 5766588, “Cascade: Install MPAC”, with 2024 and 2025 capital additions of \$13,218,230 and \$440,601 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project TIDat	Cost Element	Fiscal year	Overall Reval	2016	2017	2018	2019	2020	2021	2022	2023	2024
				Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount		
5766588	CASCADE: Install MPAC	T0000651	Order Financial Costs	\$ 11,334,572	\$ 306	\$ 50,952	\$ 417,553	\$ 6,227,070	\$ 1,488,534	\$ 990,844	\$ 853,134	\$ 1,004,558	\$ 331,620
			Order Costs-Directs & Credits	\$ 11,334,572	\$ 306	\$ 50,952	\$ 417,553	\$ 6,227,070	\$ 1,488,534	\$ 990,844	\$ 853,134	\$ 1,004,558	\$ 331,620
			Activity Type Total	\$ 484,772	\$ 116	\$ 13,630	\$ 33,571	\$ 37,824	\$ 198,537	\$ 114,167	\$ 19,099	\$ 67,796	\$ 31
			Material Total	\$ 5,156,231				\$ 5,048,706	\$ 91,911	\$ 11,837		\$ 3,776	
			Contract Total	\$ 1,252,072		\$ 10,663	\$ 299,874	\$ 537,581	\$ 204,950	\$ 45,229	\$ 119,160	\$ 28,708	\$ 5,907
			Order Other Costs	\$ 4,441,498	\$ 190	\$ 26,660	\$ 84,109	\$ 602,959	\$ 963,136	\$ 819,610	\$ 714,875	\$ 904,277	\$ 325,682
			Other Cost Elements	\$ -12,483				\$ -10,691	\$ 807	\$ -4,484	\$ 2,812	\$ -927	
			Employee Related	\$ 16,557		\$ 51		\$ 1,267	\$ 678	\$ 5,321	\$ 5,675	\$ 3,564	
			Order Overheads	\$ 4,437,424	\$ 190	\$ 26,609	\$ 84,109	\$ 612,383	\$ 961,650	\$ 818,773	\$ 706,387	\$ 901,640	\$ 325,682
			Capitalized Ad&G	\$ 164,498	\$ 38	\$ 3,309	\$ 13,583	\$ 10,156	\$ 69,218	\$ 42,788	\$ 6,304	\$ 19,005	\$ 7
			Labor Overheads	\$ 549,698	\$ 85	\$ 14,327	\$ 37,899	\$ 42,566	\$ 228,187	\$ 115,901	\$ 21,619	\$ 89,077	\$ 36
			Other Overhead	\$ 605,513	\$ 47	\$ 7,305	\$ 18,253	\$ 371,762	\$ 108,483	\$ 52,388	\$ 8,387	\$ 38,874	\$ 14
			AFUDC Costs	\$ 3,117,714	\$ 20	\$ 1,578	\$ 14,374	\$ 187,899	\$ 555,763	\$ 607,696	\$ 670,076	\$ 754,684	\$ 325,625
			Percentages of Total Cost (Calculated by CPUC)										
			Activity Type Total	4.28%	37.91%	26.75%	8.04%	0.61%	13.61%	11.52%	2.24%	6.75%	0.01%
			Material Total	45.49%	0.00%	0.00%	0.00%	81.08%	6.30%	1.19%	0.00%	0.38%	0.00%
			Contract Total	11.05%	0.00%	20.93%	71.82%	8.63%	14.05%	4.56%	13.97%	2.86%	1.78%
			Other Costs and Overheads	11.68%	55.56%	40.23%	16.70%	6.67%	27.93%	21.39%	5.25%	14.89%	0.02%
			AFUDC Costs	27.51%	6.54%	3.10%	3.44%	3.02%	38.10%	61.33%	78.54%	75.13%	98.19%
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

QUESTION CPUC-PGE-AU.51

For PO 5766588, “Cascade: Install MPAC”, in 2024 YTD, AFUDC costs represented 98.19% of the total costs for this PO. For the cost elements “Activity Type Total”, “Material Total”, and “Contractor Total”, which represent 1.79% of 2024’s YTD total PO costs, please:

- Describe in detail the work performed under each cost element, and
- Provide the monthly accounting detail for 2024 for each cost element in the table above.

ANSWER CPUC-PGE-AU.51

a. Activity Type: Labor for Electrical Work, Inspection, Engineering Support

Material Total: None

Contractor Total: Project Management Support, Engineering Contracts,

	Jan 2024 Actual Amt	Feb 2024 Actual Amt	Mar 2024 Actual Amt	Apr 2024 Actual Amt	May 2024 Actual Amt	Jun 2024 Actual Amt	Jul 2024 Actual Amt
Cost Element	\$	\$	\$	\$	\$	\$	\$
[-] Order Financial Costs	69,365	64,053	67,490	66,496	64,594	69,113	68,399
[-] Orders Costs-Directs & Credits	69,365	64,053	67,490	66,496	64,594	69,113	68,399
[-] Activity Type Total					31		
[-] Material Total							
[-] Contract Total	1,600	1,597	2,363	1,358	-635	3,962	923
[-] Order Other Costs	67,765	62,456	65,127	65,138	65,197	65,150	67,477
[-] Other Cost Elements							
[-] Employee Related							
[-] Order Overheads	67,765	62,456	65,127	65,138	65,197	65,150	67,477
[-] Capitalized A&G					7		
[-] Labor Overheads					36		
[-] Other Overhead					14		
[-] AFUDC Costs	67,765	62,456	65,127	65,138	65,140	65,150	67,477

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.52		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.52		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Frankie Au-Yeung

SUBJECT: CAPITAL ADDITIONS

Questions 47 to 52 refer to PO 5766588, “Cascade: Install MPAC”, with 2024 and 2025 capital additions of \$13,218,230 and \$440,601 respectively. The PO’s “Operative Month” is “Oct-24”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project TIDat	Cost Element	Fiscal year	Overall Revul	2016	2017	2018	2019	2020	2021	2022	2023	2024
				Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount	Total Actual Amount		
5766588	CASCADE: Install MPAC	T0000651	Order Financial Costs	\$ 11,334,572	\$ 306	\$ 50,952	\$ 417,553	\$ 6,227,070	\$ 1,458,534	\$ 990,844	\$ 853,134	\$ 1,004,558	\$ 331,620
			Order Costs-Directs & Credits	11,334,572	306	50,952	417,553	6,227,070	1,458,534	990,844	853,134	1,004,558	331,620
			Activity Type Total	484,772	116	13,630	33,571	37,824	198,537	114,167	19,099	67,796	31
			Material Total	5,156,231				5,048,706	91,911	11,837		3,776	
			Contract Total	1,252,072		10,663	299,874	537,581	204,950	45,229	119,160	28,708	5,907
			Order Other Costs	4,441,498	190	26,660	84,109	602,959	963,136	819,610	714,875	904,277	325,682
			Other Cost Elements	-12,483				-10,691	807	-4,484	2,812	-927	
			Employee Related	16,557		51		1,267	678	5,321	5,675	3,564	
			Order Overheads	4,437,424	190	26,609	84,109	612,383	961,650	818,773	706,387	901,640	325,682
			Capitalized Ad&G	164,498	38	3,309	13,583	10,156	69,218	42,788	6,304	19,005	7
			Labor Overheads	549,698	85	14,327	37,899	42,566	228,187	115,901	21,619	89,077	36
			Other Overhead	605,513	47	7,305	18,253	371,762	108,483	52,388	8,387	38,874	14
			A/R/D/C Costs	3,117,714	20	1,578	14,374	187,899	555,763	607,696	670,076	754,684	325,625
			Percentages of Total Cost (Calculated by CPUC)										
			Activity Type Total	4.28%	37.91%	26.75%	8.04%	0.61%	13.61%	11.52%	2.24%	6.75%	0.01%
			Material Total	45.49%	0.00%	0.00%	0.00%	81.08%	6.30%	1.19%	0.00%	0.38%	0.00%
			Contract Total	11.05%	0.00%	20.93%	71.82%	8.63%	14.05%	4.56%	13.97%	2.86%	1.78%
			Other Costs and Overheads	11.68%	55.56%	40.23%	16.70%	6.67%	27.93%	21.39%	5.25%	14.89%	0.02%
			A/R/D/C Costs	27.51%	6.54%	3.10%	3.44%	3.02%	38.10%	61.33%	78.54%	75.13%	98.19%
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

QUESTION CPUC-PGE-AU.52

For PO 5766588, “Cascade: Install MPAC”, please:

- Provide the date(s) that PG&E placed this PO in deferral or “on hold” status, and
- Provide the dates any deferral was in effect.

ANSWER CPUC-PGE-AU.52

Project was never placed in deferral status (due to open contracts with the MPAC vendor), but has been placed on hold several times:

August 2020-April 2021 Project placed on hold for prioritization

October 2021-April 2022 Project placed on hold for prioritization

October 2022-April 2023 Project placed on hold due to clearance issue with customer

September 2023-June 2024 Project placed on hold due to clearance issue with customer

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.53		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.53		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

Questions 53 to 57 refer to PO 5774831, “Ignacio-Mare Island 1 115kV: NERC Ph3”, with 2025 capital additions of \$13,853,234. The PO’s “Operative Month” is “Oct-25”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project T.Dot	Cost Element	Overall Result Total Actual Amount	Fiscal year									
				2017 Actual Amount	2018 Actual Amount	2019 Actual Amount	2020 Actual Amount	2021 Actual Amount	2022 Actual Amount	2023 Actual Amount	2024 Actual Amount		
5774831	Ignacio-Mare Island 1 115kV: NERC Ph3	T.0000415		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
		Order Financial Costs	6,420,168	337,902	963,562	60,780	45,076	1,267,941	2,787,793	206,137	345,976		
		Order Costs-Directs & Credits	6,420,168	337,902	963,562	60,780	45,076	1,267,941	2,787,793	206,137	345,976		
		Activity Type Total	694,199	92,023	101,191	16,392	11,283	16,047	201,520	4,547	5,220		
		Material Total	1,379,985		593,29		79,29	8	1,155,825	13,201	143,894		
		Contract Total	2,039,989	218,547	51,986	-56,614	-124,17	61,058	666,577	81,433	12,000		
		Order Other Costs	2,305,995	27,333	283,378	101,002	34,173	406,863	763,871	106,956	184,862		
		Other Cost Elements	65,564	12,181	1,980	364		80,292	-44,780	-2,383			
		Employee Related	13,323		2,921	123	4,206	3,490	2,584				
		Order Overheads	2,227,107	15,151	260,568	100,515	33,752	41,308	806,067	109,339	184,862		
		Capital A&G	220,259	1,944	411,06	4,499	409,70	5,951	70,089	1,043	1,157		
		Labor Overheads	643,936	6,097	11,126	17,452	11,889	13,527	243,075	5,475	6,390		
		Other Overhead	413,379	3,813	57,185	8,955	5,531	68,557	203,399	4,178	11,942		
		AFUDC Costs	949,034	3,297	51,008	69,610	12,226	149,293	289,544	98,644	165,372		
		Percentages of Total Cost (Calculated by CPUC)											
		Activity Type Total	10.81%	27.23%	10.50%	26.97%	25.07%	12.66%	7.23%	2.21%	1.51%		
		Material Total	21.49%	0.00%	6.14%	0.00%	1.76%	0.00%	41.46%	6.40%	41.59%		
		Contract Total	31.77%	64.68%	53.95%	-9.15%	-2.76%	48.16%	23.91%	39.50%	3.47%		
		Other Costs and Overheads	21.14%	7.11%	24.12%	51.65%	48.76%	27.41%	17.01%	40.3%	5.63%		
		AFUDC Costs	14.78%	0.98%	5.29%	114.53%	27.17%	11.77%	10.39%	47.85%	47.80%		
			100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%		

QUESTION CPUC-PGE-AU.53

For PO 5774831, “Ignacio-Mare Island 1 115kV: NERC Ph3”, please quantify the project percentage of completion that occurred by year over the life of the project.

ANSWER CPUC-PGE-AU.53

Year	% Completion
2012	0% project, 0% construction
2013	0% project, 0% construction
2014	0% project, 0% construction
2015	0% project, 0% construction
2016	0% project, 0% construction
2017	1.97% project, 0% construction
2018	7.60% project, 0% construction
2019	7.96% project, 0% construction
2020	10.59% project, 0% construction
2021	18% project, 0% construction
2022	34.29% project, 0% construction
2023	35.49% project, 0% construction
2024	42.42% project, 0% construction
2025	99.64% project, 100% construction
2026	100% project, 100% construction

Project percentage was determined utilizing the function of annual cost as a percentage of total cost. Construction percentage was determined as a percentage of construction completed specifically for “PO 5774831, “Ignacio-Mare Island 1 115kV: NERC Ph3.” Construction percentage did not include construction associated with previous phases, nor supporting projects.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.54		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.54		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

Questions 53 to 57 refer to PO 5774831, “Ignacio-Mare Island 1 115kV: NERC Ph3”, with 2025 capital additions of \$13,853,234. The PO’s “Operative Month” is “Oct-25”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project E.Doc	Cost Element	Overall Result Total Actual Amount	Fiscal year										
				2017 Actual Amount	2018 Actual Amount	2019 Actual Amount	2020 Actual Amount	2021 Actual Amount	2022 Actual Amount	2023 Actual Amount	2024 Actual Amount			
5774831	Ignacio-Mare Island 1 115kV: NERC Ph3	T.0000415												
		Order Financial Costs	6,420,168	337,902	963,562	60,780	45,076	1,267,941	2,787,793	206,137	345,976			
		Order Costs-Directs & Credits	6,420,168	337,902	963,562	60,780	45,076	1,267,941	2,787,793	206,137	345,976			
		Activity Type Total	694,199	92,023	101,191	16,392	11,283	16,047	201,520	4,547	5,220			
		Material Total	1,379,985		591,29		79,29	8	1,155,825	13,201	143,894			
		Contract Total	2,039,989	218,547	519,864	-56,614	-1,241	61,058	666,577	81,433	12,000			
		Order Other Costs	2,305,995	27,333	283,378	101,002	34,173	406,863	763,871	106,956	184,862			
		Other Cost Elements	65,564	12,181	1,989	364		80,292	-44,780	-2,383				
		Employee Related	13,323		2,921	123	4,206	3,490	2,584					
		Order Overheads	2,227,107	15,151	260,568	100,515	33,752	41,308	806,067	109,339	184,862			
		Capital A&G	220,259	1,944	411,06	4,499	409,70	599,51	70,089	1,043	1,157			
		Order Overheads	643,936	6,097	11,126	17,452	11,889	13,527	243,075	5,475	6,390			
		Other Overhead	413,379	3,813	571,85	8,955	5,531	68,557	203,399	4,178	11,942			
		AFUDC Costs	949,034	3,297	51,088	69,610	12,226	149,293	289,544	98,644	165,372			
		Percentages of Total Cost (Calculated by CPUC)												
		Activity Type Total	10.81%	27.23%	10.50%	26.97%	25.07%	12.66%	7.23%	2.21%	1.51%			
		Material Total	21.49%	0.00%	6.14%	0.00%	1.76%	0.00%	41.46%	6.40%	41.59%			
		Contract Total	31.77%	64.68%	53.95%	-9.15%	-2.76%	48.16%	23.91%	39.50%	3.47%			
		Other Costs and Overheads	21.14%	7.11%	24.12%	51.65%	48.76%	27.41%	17.01%	40.3%	5.63%			
		AFUDC Costs	14.78%	0.98%	5.29%	114.53%	27.17%	11.77%	10.39%	47.85%	47.80%			
			100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%			

QUESTION CPUC-PGE-AU.54

For PO 5774831, “Ignacio-Mare Island 1 115kV: NERC Ph3”, in 2019, AFUDC costs represented 114.53% of the total costs for this PO, attributable to a large credit to the “Contractor” cost element. For the cost elements “Activity Type Total”, “Material Total”, and “Contractor Total”, which represent approximately \$40,000 of 2021’s total PO costs, please describe in detail the work performed under each cost element.

ANSWER CPUC-PGE-AU.54

- Activity - \$16,392 – Internal Civil and TLine engineering
- Material - \$0
- Contract - <\$56,614>
 - Empirical – Drafting Services – Removal of mischarges to project

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.55		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.55		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

Questions 53 to 57 refer to PO 5774831, “Ignacio-Mare Island 1 115kV: NERC Ph3”, with 2025 capital additions of \$13,853,234. The PO’s “Operative Month” is “Oct-25”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project T.Dot	Cost Element	Overall Result Total Actual Amount	Fiscal year									
				2017 Actual Amount	2018 Actual Amount	2019 Actual Amount	2020 Actual Amount	2021 Actual Amount	2022 Actual Amount	2023 Actual Amount	2024 Actual Amount		
5774831	Ignacio-Mare Island 1 115kV: NERC Ph3	T.0000415											
		Order Financial Costs	6,420,168	337,902	963,562	60,780	45,0076	1,267,941	2,787,793	206,137	345,976		
		Order Costs-Directs & Credits	6,420,168	337,902	963,562	60,780	45,0076	1,267,941	2,787,793	206,137	345,976		
		Activity Type Total	694,199	92,023	101,191	16,392	11,2833	16,0472	201,520	4,547	5,220		
		Material Total	1,379,985		593,29		7929	8	1,155,825	13,201	143,894		
		Contract Total	2,039,989	218,547	51,9864	-56,614	-1,2417	61,0598	666,577	81,433	12,000		
		Order Other Costs	2,305,995	27,333	283,378	101,002	34,1731	406,863	763,871	106,956	184,862		
		Other Cost Elements	65,564	12,181	1,9890	364		802,92	-44,780	-2,383			
		Employee Related	13,323		2,921	123	4,206	3,490	2,584				
		Order Overheads	2,227,107	15,151	260,568	100,515	33,7525	41,3081	806,067	109,339	184,862		
		Capital A&G	2,202,59	1,944	411,06	4,499	4,0970	5,9951	70,089	1,043	1,157		
		Labour Overheads	643,936	6,097	11,1268	17,452	11,8899	13,5279	243,075	5,475	6,390		
		Other Overhead	413,379	3,813	57,185	8,955	5,5391	6,8557	203,399	4,178	11,942		
		AFUDC Costs	949,034	3,297	51,008	69,610	12,2266	149,293	289,544	98,644	165,372		
		Percentages of Total Cost (Calculated by CPUC)											
		Activity Type Total	10.81%	27.23%	10.50%	26.97%	25.07%	12.66%	7.23%	2.21%	1.51%		
		Material Total	21.49%	0.00%	6.14%	0.00%	1.76%	0.00%	41.46%	6.40%	41.59%		
		Contract Total	31.77%	64.68%	53.95%	-9.15%	-2.76%	48.16%	23.91%	39.50%	3.47%		
		Other Costs and Overheads	21.14%	7.11%	24.12%	51.65%	48.76%	27.41%	17.01%	40.3%	5.63%		
		AFUDC Costs	14.78%	0.98%	5.29%	114.53%	27.17%	11.77%	10.39%	47.85%	47.80%		
			100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%		

QUESTION CPUC-PGE-AU.55

For PO 5774831, “Ignacio-Mare Island 1 115kV: NERC Ph3”, in 2023, AFUDC costs represented 47.85% of the total costs for this PO. For the cost elements “Activity Type Total”, “Material Total”, and “Contractor Total”, which represent 48.11% of 2023’s total PO costs, please describe in detail the work performed under each cost element.

ANSWER CPUC-PGE-AU.55

- Activity - \$4,547 – Internal Civil engineering
- Material - \$13,201 – Working Stock OH – Elec
- Contract - \$81,433
 - Burns & McDonnell PMO Fees – Project Management
 - N. Consulting – Create new software system that integrates two mainstay applications, PLC-CADD and SAP, into one reporting system for process and generation of estimates and Bill Of Materials (BOMs).

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.56		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.56		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

Questions 53 to 57 refer to PO 5774831, “Ignacio-Mare Island 1 115kV: NERC Ph3”, with 2025 capital additions of \$13,853,234. The PO’s “Operative Month” is “Oct-25”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project T.Dot	Cost Element	Overall Result Total Actual Amount	Fiscal year									
				2017 Actual Amount	2018 Actual Amount	2019 Actual Amount	2020 Actual Amount	2021 Actual Amount	2022 Actual Amount	2023 Actual Amount	2024 Actual Amount		
5774831	Ignacio-Mare Island 1 115kV: NERC Ph3	T.0000415		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
		Order Financial Costs	6,420,168	337,902	963,562	60,780	45,0076	1,267,941	2,787,793	206,137	345,976		
		Order Costs-Directs & Credits	6,420,168	337,902	963,562	60,780	45,0076	1,267,941	2,787,793	206,137	345,976		
		Activity Type Total	694,199	92,023	101,191	16,392	11,2833	16,0472	201,520	4,547	5,220		
		Material Total	1,379,985		591,29		7929	8	1,155,825	13,201	143,894		
		Contract Total	2,039,989	218,547	51,9864	-56,614	-1,2417	61,0598	666,577	81,433	12,000		
		Order Other Costs	2,305,995	27,333	28,3378	101,002	34,1731	40,6863	763,871	106,956	184,862		
		Other Cost Elements	65,564	12,181	1,9890	364		80,292	-44,780	-2,383			
		Employee Related	13,323		2,921	123	4,206	3,490	2,584				
		Order Overheads	2,227,107	15,151	26,0568	100,515	33,7525	41,3081	806,067	109,339	184,862		
		Capital A&G	2,202,59	1,944	41,106	4,499	4,0970	5,9951	70,089	1,043	1,157		
		Order Overheads	643,936	6,097	11,1268	17,452	11,8899	13,5279	243,075	5,475	6,390		
		Other Overhead	413,379	3,813	57,185	8,955	5,5391	6,8557	203,339	4,178	11,942		
		AFUDC Costs	949,034	3,297	51,008	69,610	12,2266	149,293	289,544	98,644	165,372		
		Percentages of Total Cost (Calculated by CPUC)											
		Activity Type Total	10.81%	27.23%	10.50%	26.97%	25.07%	12.66%	7.23%	2.21%	1.51%		
		Material Total	21.49%	0.00%	6.14%	0.00%	1.76%	0.00%	41.46%	6.40%	41.59%		
		Contract Total	31.77%	64.68%	53.95%	-9.15%	-2.76%	48.16%	23.91%	39.50%	3.47%		
		Other Costs and Overheads	21.14%	7.11%	24.12%	51.65%	48.76%	27.41%	17.01%	40.3%	5.63%		
		AFUDC Costs	14.78%	0.98%	5.29%	114.53%	27.17%	11.77%	10.39%	47.85%	47.80%		
			100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%		

QUESTION CPUC-PGE-AU.56

For PO 5774831, “Ignacio-Mare Island 1 115kV: NERC Ph3”, in 2024 YTD, AFUDC costs represented 47.8% of the total costs for this PO. For the cost elements “Activity Type Total”, “Material Total”, and “Contractor Total”, which represent 46.57% of 2024’s YTD total PO costs, please describe in detail the work performed under each cost element.

ANSWER CPUC-PGE-AU.56

- Activity - \$5,220 – Internal engineering and support
- Material - \$143,894 – Arcosa – (4) Light Duty Steel Poles (LSPs) and misc. hardware
- Contract - \$12,000
 - Burns & McDonnell PMO Fees – Project Management

PACIFIC GAS AND ELECTRIC COMPANY
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FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.57		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.57		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

Questions 53 to 57 refer to PO 5774831, “Ignacio-Mare Island 1 115kV: NERC Ph3”, with 2025 capital additions of \$13,853,234. The PO’s “Operative Month” is “Oct-25”. The financial information in the table below was provided by PG&E in response to 2024 Cycle 1 Transmission Project Review (TPR) Data Request ED-001-01, with the exception of the percentages of total cost, which were developed by the CPUC.

Planning Order	Project T.Dat	Cost Element	Overall Result Total Actual Amount	Fiscal year									
				2017 Actual Amount	2018 Actual Amount	2019 Actual Amount	2020 Actual Amount	2021 Actual Amount	2022 Actual Amount	2023 Actual Amount	2024 Actual Amount		
5774831	Ignacio-Mare Island 1 115kV: NERC Ph3	T.0000415	Order Financial Costs	6,420,168	337,902	963,562	60,780	45,0076	1,267,941	2,787,793	206,137	345,976	
			Order Costs-Directs & Credits	6,420,168	337,902	963,562	60,780	45,0076	1,267,941	2,787,793	206,137	345,976	
			Activity Type Total	694,199	92,023	101,191	16,392	11,2833	16,0472	201,520	4,547	5,220	
			Material Total	1,379,985		593,29		7929	8	1,155,825	13,201	143,894	
			Contract Total	2,039,989	218,547	51,9864	-56,614	-1,2417	61,0598	666,577	81,433	12,000	
			Order Other Costs	2,305,995	27,333	283,378	101,002	34,1731	40,6863	763,871	106,956	184,862	
			Other Cost Elements	65,564	12,181	1,9890	364		80,292	-44,780	-2,383		
			Employee Related	13,323		2,921	123	4,206	3,490	2,584			
			Order Overheads	2,227,107	15,151	260,568	100,515	33,7525	41,3081	806,067	109,339	184,862	
			Capital Excl A&G	220,259	1,944	411,06	4,499	40970	59951	70,089	1,043	1,157	
			Labour Overheads	643,936	6,097	11,1268	17,452	11,8899	13,5279	243,075	5,475	6,390	
			Other Overhead	413,379	3,813	57,185	8,955	5,5391	68,557	203,399	4,178	11,942	
			AFUDC Costs	949,034	3,297	51,008	69,610	12,2266	149,293	289,544	98,644	165,372	
			Percentages of Total Cost (Calculated by CPUC)										
			Activity Type Total	10.81%	27.23%	10.50%	26.97%	25.07%	12.66%	7.23%	2.21%	1.51%	
			Material Total	21.49%	0.00%	6.14%	0.00%	1.76%	0.00%	41.46%	6.40%	41.59%	
			Contract Total	31.77%	64.68%	53.95%	-9.15%	-2.76%	48.16%	23.91%	39.50%	3.47%	
			Other Costs and Overheads	21.14%	7.11%	24.12%	51.65%	48.76%	27.41%	17.01%	40.3%	5.63%	
			AFUDC Costs	14.78%	0.98%	5.29%	114.53%	27.17%	11.77%	10.39%	47.85%	47.80%	
				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

QUESTION CPUC-PGE-AU.57

For PO 5774831, “Ignacio-Mare Island 1 115kV: NERC Ph3”, please:

- Provide the date(s) that PG&E placed this PO in deferral or “on hold” status, and
- Provide the dates any deferral was in effect.

ANSWER CPUC-PGE-AU.57

- A. Management approval for deferral on 01-20-2023. It was not formally put into deferral status until March due to lagging charges.

- B. Deferral Period: March 2023 – October 2023

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.58		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.58		
Request Date:	August 27, 2024	Response Date:	October 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu/ Nick Medina

SUBJECT: CAPITAL ADDITIONS

Questions 58 to 63 refer to numerous POs within T.0000614, “Rio Oso Substation Upgrade”. The table below provides the POs, project names, and 2024 and 2025 capital additions, as shown on WP-9, Tab 4.

T.0000614 POs with 2024/2025 Operative Months	Project Name	Operative Month	2024 Capital Additions	2025 Capital Additions
5777058	NV_Rio Oso Sub: T-Line Re-String Conduc	Jun-25		2,801,794
5726234	RIO OSO: Install BK 1 and BK 2	May-25		17,544,423
5732693	RIO OSO: Install 230 KV MPAC	Dec-24	13,899,114	1,449,279
5739019	RIO OSO: Install 115 KV MPAC	Dec-24	21,918,192	2,495,210
5770422	TABLE MOUNTAIN: Inst Rio Oso Remote End	May-25		2,622,355
5770425	ATLANTIC: Inst Rio Oso 230KV Remote End	Aug-25		3,231,806
5770426	BRIGHTON: Inst Rio Oso 230KV Remote End	Dec-25		1,654,619
5770430	DRUM PH 1: Inst Rio Oso 115KV Remote End	Jun-25		4,232,315
5732785	RIO OSO: Repl 230 KV BAAH/GIS	Dec-24	58,735,732	5,536,036
5740958	RIO OSO: Install 115 KV BAAH/GIS	Dec-24	72,302,306	8,452,940

QUESTION CPUC-PGE-AU.58

For POs 5777058 and 5726234, PG&E’s June 2024 Transmission Project Review (TPR) Data Spreadsheet (DS) indicates in Field 50 the “Original Planned In-Service Date” of “2009-05-01”, with Field 52 “Reason for Change in In-Service Date” as “Prioritization”. Please explain in detail why these projects were delayed 15 years from their originally planned in-service date.

ANSWER CPUC-PGE-AU.58

The project milestones have been impacted by various issues and risks, such as scope finalization, change of vendor for GIS equipment, complexity of the construction resulting from dependencies and sequencing with the Rio Oso overall rebuild and with one construction plan to implement all work at Rio Oso, and limited clearance availability. In addition, the CAISO TPP portion of T.0000614 Rio Oso Substation Upgrade was delayed due to budget reprioritization and allocation to higher need projects.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.59		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.59		
Request Date:	August 27, 2024	Response Date:	October 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu/ Nick Medina

SUBJECT: CAPITAL ADDITIONS

Questions 58 to 63 refer to numerous POs within T.0000614, “Rio Oso Substation Upgrade”. The table below provides the POs, project names, and 2024 and 2025 capital additions, as shown on WP-9, Tab 4.

T.0000614 POs with 2024/2025 Operative Months	Project Name	Operative Month	2024 Capital Additions	2025 Capital Additions
5777058	NV_Rio Oso Sub: T-Line Re-String Conduc	Jun-25		2,801,794
5726234	RIO OSO: Install BK 1 and BK 2	May-25		17,544,423
5732693	RIO OSO: Install 230 KV MPAC	Dec-24	13,899,114	1,449,279
5739019	RIO OSO: Install 115 KV MPAC	Dec-24	21,918,192	2,495,210
5770422	TABLE MOUNTAIN: Inst Rio Oso Remote End	May-25		2,622,355
5770425	ATLANTIC: Inst Rio Oso 230KV Remote End	Aug-25		3,231,806
5770426	BRIGHTON: Inst Rio Oso 230KV Remote End	Dec-25		1,654,619
5770430	DRUM PH 1: Inst Rio Oso 115KV Remote End	Jun-25		4,232,315
5732785	RIO OSO: Repl 230 KV BAAH/GIS	Dec-24	58,735,732	5,536,036
5740958	RIO OSO: Install 115 KV BAAH/GIS	Dec-24	72,302,306	8,452,940

QUESTION CPUC-PGE-AU.59

With the exception of POs 5777058 and 5726234, PG&E's June 2024 Transmission Project Review (TPR) Data Spreadsheet (DS) indicates, for the remaining POs in the table, in Field 50 the "Original Planned In-Service Date" of "2019-12-02" with Field 52 "Reason for Change in In-Service Date" as "Prioritization". Please explain why these projects were delayed four to five years from their originally planned in-service date.

ANSWER CPUC-PGE-AU.59

The project milestones have been impacted by various issues and risks, such as scope finalization, change of vendor for GIS equipment, complexity of the construction, resulting from dependencies and sequencing with the Rio Oso overall rebuild and with one construction plan to implement all work at Rio Oso, and limited clearance availability. The non-CAISO TPP portion of T.0000614 Rio Oso Substation Upgrade was delayed due to budget reprioritization and allocation to higher need projects.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.60		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.60		
Request Date:	August 27, 2024	Response Date:	October 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

Questions 58 to 63 refer to numerous POs within T.0000614, “Rio Oso Substation Upgrade”. The table below provides the POs, project names, and 2024 and 2025 capital additions, as shown on WP-9, Tab 4.

T.0000614 POs with 2024/2025 Operative Months	Project Name	Operative Month	2024 Capital Additions	2025 Capital Additions
5777058	NV_Rio Oso Sub: T-Line Re-String Conduc	Jun-25		2,801,794
5726234	RIO OSO: Install BK 1 and BK 2	May-25		17,544,423
5732693	RIO OSO: Install 230 KV MPAC	Dec-24	13,899,114	1,449,279
5739019	RIO OSO: Install 115 KV MPAC	Dec-24	21,918,192	2,495,210
5770422	TABLE MOUNTAIN: Inst Rio Oso Remote End	May-25		2,622,355
5770425	ATLANTIC: Inst Rio Oso 230KV Remote End	Aug-25		3,231,806
5770426	BRIGHTON: Inst Rio Oso 230KV Remote End	Dec-25		1,654,619
5770430	DRUM PH 1: Inst Rio Oso 115KV Remote End	Jun-25		4,232,315
5732785	RIO OSO: Repl 230 KV BAAH/GIS	Dec-24	58,735,732	5,536,036
5740958	RIO OSO: Install 115 KV BAAH/GIS	Dec-24	72,302,306	8,452,940

QUESTION CPUC-PGE-AU.60

For each of the POs in the table above, please:

- a. Indicate whether PG&E ever placed the PO in deferral or “on hold” status, and
- b. Provide the dates any deferral was in effect.

ANSWER CPUC-PGE-AU.60

- a. None of the POs in the table above was placed in deferral or “on hold” status.
- b. Not applicable.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.61		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.61		
Request Date:	August 27, 2024	Response Date:	October 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

Questions 58 to 63 refer to numerous POs within T.0000614, “Rio Oso Substation Upgrade”. The table below provides the POs, project names, and 2024 and 2025 capital additions, as shown on WP-9, Tab 4.

T.0000614 POs with 2024/2025 Operative Months	Project Name	Operative Month	2024 Capital Additions	2025 Capital Additions
5777058	NV_Rio Oso Sub: T-Line Re-String Conduc	Jun-25		2,801,794
5726234	RIO OSO: Install BK 1 and BK 2	May-25		17,544,423
5732693	RIO OSO: Install 230 KV MPAC	Dec-24	13,899,114	1,449,279
5739019	RIO OSO: Install 115 KV MPAC	Dec-24	21,918,192	2,495,210
5770422	TABLE MOUNTAIN: Inst Rio Oso Remote End	May-25		2,622,355
5770425	ATLANTIC: Inst Rio Oso 230KV Remote End	Aug-25		3,231,806
5770426	BRIGHTON: Inst Rio Oso 230KV Remote End	Dec-25		1,654,619
5770430	DRUM PH 1: Inst Rio Oso 115KV Remote End	Jun-25		4,232,315
5732785	RIO OSO: Repl 230 KV BAAH/GIS	Dec-24	58,735,732	5,536,036
5740958	RIO OSO: Install 115 KV BAAH/GIS	Dec-24	72,302,306	8,452,940

QUESTION CPUC-PGE-AU.61

For each of the POs in the table above: Please provide an annual cost breakdown by material, contract, labor, AFUDC, and other overheads from project inception to date.

ANSWER CPUC-PGE-AU.61

Please see the report below, as of 10/10/2024:

Planning Order	WBS Element Level	Order	Name	Cost Element	1995 to 2023 Actual Amt	2024 YTD Actuals + Remaining Plan	2025 Fcst Amt	2026 Fcst Amt	2027 Fcst Amt
5732785	T.0000614.02	74001780	RIO OSO: INSTALL 230KV BAAH/GIS	[-] Activity Type Total	\$ 1,231,712	\$ 507,339	\$ 148,895	\$ 77,738	\$ 719
5732785	T.0000614.02	74001780	RIO OSO: INSTALL 230KV BAAH/GIS	[-] Material Total	\$ 14,999,543	\$ 219,244			
5732785	T.0000614.02	74001780	RIO OSO: INSTALL 230KV BAAH/GIS	[-] Contract Total	\$ 52,319,322	\$ 13,227,587	\$ 8,482,084	\$ 234,593	
5732785	T.0000614.02	74001780	RIO OSO: INSTALL 230KV BAAH/GIS	[-] Order Other Costs	\$ 17,894,913	\$ 8,151,605	\$ 2,102,422	\$ 1,940,024	\$ 582
5732785	T.0000614.02	74001780	RIO OSO: INSTALL 230KV BAAH/GIS	[-] AFUDC Costs	\$ 14,271,420	\$ 6,527,719			
5726234	T.0000614.03	74001781	RIO OSO: INSTALL BK 3	[-] Activity Type Total	\$ 642,603	\$ 186,372	\$ 143,878	\$ 75,460	\$ 1,982
5726234	T.0000614.03	74001781	RIO OSO: INSTALL BK 3	[-] Material Total	\$ 4,182,026	\$ 13,909			
5726234	T.0000614.03	74001781	RIO OSO: INSTALL BK 3	[-] Contract Total	\$ 4,784,471	\$ 619,853	\$ 843,354	\$ 5,180	
5726234	T.0000614.03	74001781	RIO OSO: INSTALL BK 3	[-] Order Other Costs	\$ 3,788,700	\$ 2,048,300	\$ 1,005,530	\$ 144,553	\$ 1,605
5726234	T.0000614.03	74001781	RIO OSO: INSTALL BK 3	[-] AFUDC Costs	\$ 2,943,049	\$ 995,879	\$ 425,028		
5740958	T.0000614.04	74001782	RIO OSO: INSTALL 115 KV BAAH/GIS	[-] Activity Type Total	\$ 750,755	\$ 186,402	\$ 123,560	\$ 77,057	\$ 1,982
5740958	T.0000614.04	74001782	RIO OSO: INSTALL 115 KV BAAH/GIS	[-] Material Total	\$ 7,859,965	\$ 737,782			
5740958	T.0000614.04	74001782	RIO OSO: INSTALL 115 KV BAAH/GIS	[-] Contract Total	\$ 37,754,242	\$ 8,826,124	\$ 8,300,422		
5740958	T.0000614.04	74001782	RIO OSO: INSTALL 115 KV BAAH/GIS	[-] Order Other Costs	\$ 12,395,556	\$ 5,988,257	\$ 980,900	\$ 747,549	\$ 1,605
5740958	T.0000614.04	74001782	RIO OSO: INSTALL 115 KV BAAH/GIS	[-] AFUDC Costs	\$ 10,519,143	\$ 4,460,886			
5732693	T.0000614.05	74001785	RIO OSO: INSTALL 230 KV MPAC	[-] Activity Type Total	\$ 677,493	\$ 477,255	\$ 257,917	\$ 243,602	
5732693	T.0000614.05	74001785	RIO OSO: INSTALL 230 KV MPAC	[-] Material Total	\$ 95,405	\$ 4,580			
5732693	T.0000614.05	74001785	RIO OSO: INSTALL 230 KV MPAC	[-] Contract Total	\$ 13,500,789	\$ 784,006	\$ 2,083,383	\$ 445,615	
5732693	T.0000614.05	74001785	RIO OSO: INSTALL 230 KV MPAC	[-] Order Other Costs	\$ 6,212,600	\$ 3,143,704	\$ 499,046	\$ 1,266,448	
5732693	T.0000614.05	74001785	RIO OSO: INSTALL 230 KV MPAC	[-] AFUDC Costs	\$ 5,056,923	\$ 1,475,501			
5739019	T.0000614.06	74001786	RIO OSO: INSTALL 115 KV MPAC	[-] Activity Type Total	\$ 517,224	\$ 411,320	\$ 256,098	\$ 155,111	
5739019	T.0000614.06	74001786	RIO OSO: INSTALL 115 KV MPAC	[-] Material Total	\$ 38,887	\$ 409			
5739019	T.0000614.06	74001786	RIO OSO: INSTALL 115 KV MPAC	[-] Contract Total	\$ 11,740,848	\$ 1,513,742	\$ 1,574,615	\$ 178,600	\$ 12,850
5739019	T.0000614.06	74001786	RIO OSO: INSTALL 115 KV MPAC	[-] Order Other Costs	\$ 5,274,909	\$ 2,503,842	\$ 946,091	\$ 297,007	
5739019	T.0000614.06	74001786	RIO OSO: INSTALL 115 KV MPAC	[-] AFUDC Costs	\$ 4,385,665	\$ 1,262,545			
5770422	T.0000614.08	74005342	TABLE MOUNTAIN: INST RIO OSO REMOTE END	[-] Activity Type Total	\$ 76,971	\$ 15,467	\$ 342,724	\$ 1,791	
5770422	T.0000614.08	74005342	TABLE MOUNTAIN: INST RIO OSO REMOTE END	[-] Material Total	\$ 95,414				
5770422	T.0000614.08	74005342	TABLE MOUNTAIN: INST RIO OSO REMOTE END	[-] Contract Total	\$ 286,497		\$ 983,439		
5770422	T.0000614.08	74005342	TABLE MOUNTAIN: INST RIO OSO REMOTE END	[-] Order Other Costs	\$ 364,088	\$ 89,927	\$ 695,238	\$ 3,245	
5770422	T.0000614.08	74005342	TABLE MOUNTAIN: INST RIO OSO REMOTE END	[-] AFUDC Costs	\$ 197,269	\$ 61,034	\$ 40,092		
5770425	T.0000614.11	74005345	ATLANTIC: INST RIO OSO 230KV REMOTE END	[-] Activity Type Total	\$ 74,539	\$ 16,725	\$ 210,690	\$ 34,841	
5770425	T.0000614.11	74005345	ATLANTIC: INST RIO OSO 230KV REMOTE END	[-] Material Total	\$ 17,779	\$ 2,893			
5770425	T.0000614.11	74005345	ATLANTIC: INST RIO OSO 230KV REMOTE END	[-] Contract Total	\$ 223,214		\$ 32,743	\$ 44,893	
5770425	T.0000614.11	74005345	ATLANTIC: INST RIO OSO 230KV REMOTE END	[-] Order Other Costs	\$ 300,803	\$ 77,607	\$ 460,962	\$ 64,523	
5770425	T.0000614.11	74005345	ATLANTIC: INST RIO OSO 230KV REMOTE END	[-] AFUDC Costs	\$ 155,985	\$ 46,254	\$ 57,534		
5770426	T.0000614.12	74005346	BRIGHTON: INST RIO OSO 230KV REMOTE END	[-] Activity Type Total	\$ 77,343	\$ 13,895	\$ 202,427	\$ 33,276	
5770426	T.0000614.12	74005346	BRIGHTON: INST RIO OSO 230KV REMOTE END	[-] Material Total	\$ 20,711				
5770426	T.0000614.12	74005346	BRIGHTON: INST RIO OSO 230KV REMOTE END	[-] Contract Total	\$ 220,890	\$ 29,128	\$ 201,787		
5770426	T.0000614.12	74005346	BRIGHTON: INST RIO OSO 230KV REMOTE END	[-] Order Other Costs	\$ 317,939	\$ 73,809	\$ 446,171	\$ 61,891	
5770426	T.0000614.12	74005346	BRIGHTON: INST RIO OSO 230KV REMOTE END	[-] AFUDC Costs	\$ 163,271	\$ 47,819	\$ 58,563		
5770427	T.0000614.13	74005347	WOODLAND: INST RIO OSO 115KV REMOTE END	[-] Activity Type Total	\$ 567,987	\$ 9,635			
5770427	T.0000614.13	74005347	WOODLAND: INST RIO OSO 115KV REMOTE END	[-] Material Total	\$ 250,700	\$ 569			
5770427	T.0000614.13	74005347	WOODLAND: INST RIO OSO 115KV REMOTE END	[-] Contract Total	\$ 601,419	\$ 17,544			
5770427	T.0000614.13	74005347	WOODLAND: INST RIO OSO 115KV REMOTE END	[-] Order Other Costs	\$ 1,631,776	\$ 17,908			
5770427	T.0000614.13	74005347	WOODLAND: INST RIO OSO 115KV REMOTE END	[-] AFUDC Costs	\$ 384,348				
5770430	T.0000614.16	74005350	DRUM PH 1: INST RIO OSO 115KV REMOTE END	[-] Activity Type Total	\$ 113,510	\$ 63,333	\$ 749,974	\$ 35,885	
5770430	T.0000614.16	74005350	DRUM PH 1: INST RIO OSO 115KV REMOTE END	[-] Material Total	\$ 81,174	\$ 29,052			
5770430	T.0000614.16	74005350	DRUM PH 1: INST RIO OSO 115KV REMOTE END	[-] Contract Total	\$ 592,567		\$ 500,000		
5770430	T.0000614.16	74005350	DRUM PH 1: INST RIO OSO 115KV REMOTE END	[-] Order Other Costs	\$ 485,361	\$ 222,353	\$ 1,567,648	\$ 66,522	
5770430	T.0000614.16	74005350	DRUM PH 1: INST RIO OSO 115KV REMOTE END	[-] AFUDC Costs	\$ 252,654	\$ 99,639	\$ 131,598		
5777058	T.0000614.18	74014260	RIO OSO SUB: T-LINE RE-STRING CONDU	[-] Activity Type Total	\$ 207,437	\$ 68,009	\$ 115,883	\$ 133,657	
5777058	T.0000614.18	74014260	RIO OSO SUB: T-LINE RE-STRING CONDU	[-] Material Total	\$ 23,774	\$ 138,215			
5777058	T.0000614.18	74014260	RIO OSO SUB: T-LINE RE-STRING CONDU	[-] Contract Total	\$ 298,879	\$ 18,000			
5777058	T.0000614.18	74014260	RIO OSO SUB: T-LINE RE-STRING CONDU	[-] Order Other Costs	\$ 621,933	\$ 340,717	\$ 867,567	\$ 254,814	
5777058	T.0000614.18	74014260	RIO OSO SUB: T-LINE RE-STRING CONDU	[-] AFUDC Costs	\$ 226,932	\$ 90,189	\$ 53,657		

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.62		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.62		
Request Date:	August 27, 2024	Response Date:	October 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

Questions 58 to 63 refer to numerous POs within T.0000614, “Rio Oso Substation Upgrade”. The table below provides the POs, project names, and 2024 and 2025 capital additions, as shown on WP-9, Tab 4.

T.0000614 POs with 2024/2025 Operative Months	Project Name	Operative Month	2024 Capital Additions	2025 Capital Additions
5777058	NV_Rio Oso Sub: T-Line Re-String Conduc	Jun-25		2,801,794
5726234	RIO OSO: Install BK 1 and BK 2	May-25		17,544,423
5732693	RIO OSO: Install 230 KV MPAC	Dec-24	13,899,114	1,449,279
5739019	RIO OSO: Install 115 KV MPAC	Dec-24	21,918,192	2,495,210
5770422	TABLE MOUNTAIN: Inst Rio Oso Remote End	May-25		2,622,355
5770425	ATLANTIC: Inst Rio Oso 230KV Remote End	Aug-25		3,231,806
5770426	BRIGHTON: Inst Rio Oso 230KV Remote End	Dec-25		1,654,619
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5732785	RIO OSO: Repl 230 KV BAAH/GIS	Dec-24	58,735,732	5,536,036
5740958	RIO OSO: Install 115 KV BAAH/GIS	Dec-24	72,302,306	8,452,940

QUESTION CPUC-PGE-AU.62

For each of the POs in the table above: Please indicate whether PG&E still expects to achieve the indicated “Operative Month”.

ANSWER CPUC-PGE-AU.62

PG&E still expects to achieve the indicated “Operative Month” for each POs, dependent upon other supporting projects.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.63		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.63		
Request Date:	August 27, 2024	Response Date:	October 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

Questions 58 to 63 refer to numerous POs within T.0000614, “Rio Oso Substation Upgrade”. The table below provides the POs, project names, and 2024 and 2025 capital additions, as shown on WP-9, Tab 4.

T.0000614 POs with 2024/2025 Operative Months	Project Name	Operative Month	2024 Capital Additions	2025 Capital Additions
5777058	NV_Rio Oso Sub: T-Line Re-String Conduc	Jun-25		2,801,794
5726234	RIO OSO: Install BK 1 and BK 2	May-25		17,544,423
5732693	RIO OSO: Install 230 KV MPAC	Dec-24	13,899,114	1,449,279
5739019	RIO OSO: Install 115 KV MPAC	Dec-24	21,918,192	2,495,210
5770422	TABLE MOUNTAIN: Inst Rio Oso Remote End	May-25		2,622,355
5770425	ATLANTIC: Inst Rio Oso 230KV Remote End	Aug-25		3,231,806
5770426	BRIGHTON: Inst Rio Oso 230KV Remote End	Dec-25		1,654,619
5770430	DRUM PH 1: Inst Rio Oso 115KV Remote End	Jun-25		4,232,315
5732785	RIO OSO: Repl 230 KV BAAH/GIS	Dec-24	58,735,732	5,536,036
5740958	RIO OSO: Install 115 KV BAAH/GIS	Dec-24	72,302,306	8,452,940

QUESTION CPUC-PGE-AU.63

For each of the POs in the table above, please:

- a. Explain whether PG&E began construction on any portion of the PO's scope of work and then stopped construction for any period of time.
- b. If it did, please identify the PO and provide the costs to demobilize crews, make the work area safe, and then remobilize the crews.
- c. Include any costs to store any long-lead time materials previously ordered.

ANSWER CPUC-PGE-AU.63

- a. No, PG&E did not begin construction and then stop on any portion of the PO's scope of work.
- b. Not applicable.
- c. Not applicable.

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.64		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.64		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Frankie Au-Yeung

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.64

For PO 5776764, “METCALF: Install 230 KV MPAC”, the “Operative Month” for this PO is Feb-24. However, PG&E’s June 2024 Transmission Project Review (TPR) Data Spreadsheet (DS) indicates in Field 50 the “Original Planned In-Service Date” of “2023-03-31”, and in Field 49 a “Construction Start Date” of “2022-05-09,” Please:

- a. Explain whether PG&E began construction on any portion of the PO’s scope of work and then stopped construction for any period of time.
- b. If it did, please provide the costs to demobilize crews, make the work area safe, and then remobilize the crews.
- c. Include any costs to store any long-lead time materials previously ordered.

ANSWER CPUC-PGE-AU.64

- a. Yes, PG&E did begin working on 230kV MPAC outdoor work but while digging for a different project in the 115kV yard, we found native American remains. This discovery stopped work in that area but we later found another set of remains while excavating for the 230kV work and this also stopped any digging for 6-7 months while we worked out a plan with the assigned native American tribe. PG&E did have to demobilize and remobilize as a result.
- b. The estimated cost to demobilize and mobilize is about \$34k total.
- c. None.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.65		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.65		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Frankie Au-Yeung

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.65

For PO 5776764, “METCALF: Install 230 KV MPAC”, please explain the need for an additional \$6,166,474 in 2025 capital additions after the project is placed in service in February 2024.

ANSWER CPUC-PGE-AU.65

The Metcalf 230kV MPAC project will be rolling equipment from the existing control buildings into the MPAC enclosure well beyond the in-service date when the first piece of equipment goes operational.

The TPR projected in-service dates reflect when the first breakers will become operable from the new 230kV MPAC buildings. The additional capital additions are for the following: Electrical equipment transfers into the new MPAC enclosures will continue until final equipment get rolled into the new MPAC enclosures, and with the project ending after removal of all the old conduits, unused trench, cables, vaults, and removal of all the old 230kV control racks in the 500kV building, and demolition of the existing 115kV control building.

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.66		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.66		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.66

For PO 5794779, “Brighton-Grand Island: PH 2 1-5 W Piling”, the “Operative Month” is “Sep-25” and 2025 capital additions are \$30,472,710. However, PG&E indicated in its Response to TPR Data Request ED 001-Q049(b) that “This project was placed in deferred status due (i.e., On Hold) in February 2024 due to reprioritization.” Please:

- a. Explain whether PG&E still expects to achieve the September 2025 “Operative Month” or provide the currently expected operative month.
- b. Confirm the current projected spending is to be completed in 2025.

ANSWER CPUC-PGE-AU.66

- a. There are currently no funds budgeted for this project for 2025. PG&E has decided to continue the project “Deferred” status through 2025. The “Operative Month” will be moved out to September 2026.
- b. There is no “forecasted/planned” spend for 2025 at this time.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.67		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.67		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.67

For PO 5794779, “Brighton-Grand Island: PH 2 1-5 W Piling”, PG&E in the June 2024 TPR, Field 49, that it began construction on “2022-05-10”. PG&E also indicated in its Response to TPR Data Request ED 001-Q049(e) that, in placing the project “on hold”, “The incremental cost for demobilize and remobilize crews will be approximately \$150k.” Please provide a detailed explanation of the derivation of this amount.

ANSWER CPUC-PGE-AU.67

The total expected cost for demobilization and remobilization is closer to \$170K. This comes from actual contract costs plus expected rate increases for the two major construction contractors on this project (Outback and ILB).

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.68		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.68		
Request Date:	August 27, 2024	Response Date:	October 2, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.68

For PO 5547001, “Newark – Install Smoke Detector in SWGR”, 2024 capital additions are shown as “132,377”. Please provide a detailed description of the scope of work performed under this PO.

ANSWER CPUC-PGE-AU.68

The scope of work on PO 5547001 is the following:

- Install smoke detector systems in Switchgear 3 & 4 and in the SVC Store Room
- Install AC circuit cables from AC panels (at SWGRs 3 & 4) to the new smoke system controllers.
- Install DC circuit cables from DC panels (at SWGRs 3 & 4) from SCADA points (two points at SWGR 3 and two points at SWGR 4) to the new smoke system relays.
- Ground new smoke detector and fire suppression systems
- Add strobe lighting and sirens in SVC building for visual and audio warning.
- Install all conduits for new smoke detector, including conduits for AC power and SCADA points.
- Install HVAC shutoff system at switchgears 3 & 4

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.69		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.69		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.69

For PO 5547001, “Newark – Install Smoke Detector in SWGR”, please provide the cost breakdown for this PO by direct internal costs, material, contract, AFUDC, and other overheads.

ANSWER CPUC-PGE-AU.69

The cost breakdown for this PO is as follows:

Internal Labor	\$79,390
Materials	\$2,996
Contract	\$134,786
Other costs	\$150,000
Total Estimate at Completion	\$367,172

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.70		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.70		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Nikki Apura (b)/ Trang Luu

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.70

For PO 5547001, “Newark – Install Smoke Detector in SWGR”, please:

- a. Provide the account to which these costs are recorded and its associated depreciation life, and
- b. Explain why this work is capitalized instead of expensed.

ANSWER CPUC-PGE-AU.70

- a. As of December 31, 2023, all costs for this planning order have been recorded to FERC Plant Account 352 (Structures and Improvements), which has an average service life of 70 years per the TO20 authorized depreciation rates.
- b. Scope of work as described in CPUC-PGE-AU.68 describes installation of a fire protection system in which the assets are considered to be a retirement unit.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.71		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.71		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.71

For PO 5552502, “Vaca Dixon: EM Repl old Bank 5 bushings”, please provide a detailed description of the scope of work performed, including the number of bushings replaced, age, type, manufacturer, voltage, and amperage of the bushings installed and removed, along with the drivers for the bushing replacements.

ANSWER CPUC-PGE-AU.71

The scope of work is described below. The driver for the project is to replace bushings with known high failure rates.

- All bushings are to be replaced on all four single-phase transformers, which is 20 total, 5 per transformer (1-H1 115kV/1200A Bushing, 1-X1 60kV/1400A Bushing, 3-HO/Y1/Y2-1500A bushings).
- Existing bushings on Vaca Dixon Bank 5 are Trench COTA bushings, which have a known high rate-of-failure and are being targeted for replacement in all PG&E power transformers. These bushings came with transformer that was installed in 2003 (21 years old).
- These bushings will be replaced with RIS Type SESTFta 550-138-1200 (115kV Bushings), SESTFta 350-69-1400 (60kV Bushings) and RIS Type STARIS-Sia+ 25-1500 (12kV Bushings).

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.72		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.72		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.72

For PO 5552502, “Vaca Dixon: EM Repl old Bank 5 bushings”, please provide the age, manufacturer, voltage, and MVA rating of the transformer in which the bushings were replaced.

ANSWER CPUC-PGE-AU.72

The transformers were installed in 2003 (21 years old); the manufacturer is EFACEC; the voltage is 115/60kV and MVA rating is 18/24/30.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.73		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.73		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.73

For PO 5552502, “Vaca Dixon: EM Repl old Bank 5 bushings”, please:

- a. Explain if the bushings being replaced are part of a family of bushings with known problems within the industry or PG&E, and
- b. Provide a list of the locations and number of transformers impacted.

ANSWER CPUC-PGE-AU.73

- a. Yes, these transformer bushings are Trench COTA bushings which is an industry-wide known issue for high rate-of-failure.
- b. The list of transmission transformers impacted is not readily available.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.74		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.74		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.74

For PO 5552502, “Vaca Dixon: EM Repl old Bank 5 bushings”, please:

- a. Provide the FERC account to which the bushing replacement costs are recorded, and
- b. Describe how the new bushings are depreciated in relation to the transformer depreciation.

ANSWER CPUC-PGE-AU.74

- a. There are no recorded Plant Additions for this planning order as of December 31, 2023. It is currently estimated that future costs for this planning order will be recorded to FERC Plant Account 353 (Station Equipment).
- b. PG&E records depreciation expense based on authorized depreciation rates at the group level, specifically by asset class. For TO20 authorized and TO21 proposed Network Transmission depreciation rates by asset class, refer to Schedule 12-DepRates from the Draft Annual Update TO21-RY2025 Formula Model.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.75		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.75		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.75

For PO 5555241, “Moss Landing PP: Repl Bk 4 Bushings”, please provide a detailed description of the scope of work performed, including the number of bushings replaced, age, type, manufacturer, voltage, and amperage of the bushings installed and removed, along with the drivers for the bushing replacements.

ANSWER CPUC-PGE-AU.75

Scope of work performed:

- Replaced all bushings of 230/115kV, 420MVA Bank 4: HV(3), LV(3), H0X0(1) bushings
- Installed Surge Arresters
- Installed RTDs(2), Well Assemblies(2)and Cord Assemblies(2)
- Replaced two(2) fans(20”, 3-Phase, 208V)
- Replaced ETM 109 with ITM 509
- Replaced gasket for Diverter cover and oil piping flanges

Replacement of the transformer bushings is driven by asset health conditions:

- Existing bushings are from HSP, 1998-vintage (HV: 198kV, 1200A; LV: 138kV, 2500A) and showed severe shed damage & leaks.
- LTC at flange, Manway cover, Bushing turrets, side access cover, Velcon filtration system and Gas piping were all leaking.
- RPRR is corroded and failed trip test.
- ETM 109 was not working and replaced it with an ITM 509

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.76		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.76		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.76

For PO 5555241, “Moss Landing PP: Repl Bk 4 Bushings”, please provide the age, manufacturer, voltage, and MVA rating of the transformer in which the bushings were replaced.

ANSWER CPUC-PGE-AU.76

- 230/115kV, 420MVA Transformer
- Manufacturer: Smit
- Year: 1998

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.77		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.77		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.77

For PO 5555241, “Moss Landing PP: Repl Bk 4 Bushings”, please:

- a. Explain if the bushings being replaced are part of a family of bushings with known problems within the industry or PG&E, and
- b. Provide a list of the locations and number of transformers impacted.

ANSWER CPUC-PGE-AU.77

- a. No, these transformer bushings are manufactured by HSP and are not part of a family of bushings with known problems within the industry or PG&E.
- b. Not Applicable.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.78		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.78		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu, George Kataoka

SUBJECT: CAPITAL ADDITIONS

QUESTION CPUC-PGE-AU.78

For PO 5555241, “Moss Landing PP: Repl Bk 4 Bushings”, please:

- a. Provide the FERC account to which the bushing replacement costs are recorded, and
- b. Describe how the new bushings are depreciated in relation to the transformer depreciation.

ANSWER CPUC-PGE-AU.78

- a. As of December 31, 2023, costs for PO 5555241 have been recorded to asset class ETP35301 (Station Equipment) under FERC Plant Account 353.
- b. PG&E uses group depreciation at the asset class level to calculate depreciation expense for assets. Refer to Schedule 12-DepRates for depreciation rates and attributes by asset class both for TO20 authorized and TO21 proposed rates.

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.79		
PG&E File Name:	FERC-TO21 IR CPUC-PGE 03-AU.79		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

Questions 79 to 83 refer to numerous “Shunt Splice” POs, as shown on the table below.

Planning Order	Description	2024 Capital Additions
5555168	Los Banos-Pacheco Shunt Splice	127,901
5555170	Tulucay-Napa Shunt Splice	122,966
5555175	Potter Valley-Mendocino Shunt Splice	124,464
5555176	Sonoma-Pueblo Shunt Splice	123,819
5555182	Colgate-Smartville #2 Shunt Splice	123,823
5555203	Arco-Cholame Shunt Splice	127,880
5555208	Bridgeville-Cottonwood Shunt Splice	80,591
5555210	Potter Valley-Willits Shunt Splice	125,282
5555211	Centerville-Table MTN Shunt Splice	58,684
5555214	Volta-South Shunt Splice	123,823

QUESTION CPUC-PGE-AU.79

Please explain if Shunt Splice work is part of a larger program at PG&E and provide a description of the program in terms of program length, number of lines affected, number of splices replaced or repaired on each line, number of lines completed, number of lines remaining, and estimated program cost by year.

ANSWER CPUC-PGE-AU.79

These shunt splice projects are a part of a program to help drive down wildfire risk. The Shunt Splice Program currently has commitments in the Wildfire Mitigation Plan (WMP) under GH-06. The 2023 Target was adding shunts to 20 transmission circuits, the 2024 target is 22 transmission circuits and the 2025 target is 25 transmission circuits. The program achieved its goal in 2023 by shunting splices across 20 different circuits and is on track to complete its target for 2024 of adding shunts to 22 circuits. The program will be reassessed in 2025 regarding future targets. The program’s annual budget at this time for years 23-25 is \$5M.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.80		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.80		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

SUBJECT: CAPITAL ADDITIONS

Questions 79 to 83 refer to numerous “Shunt Splice” POs, as shown on the table below.

Planning Order	Description	2024 Capital Additions
5555168	Los Banos-Pacheco Shunt Splice	127,901
5555170	Tulucay-Napa Shunt Splice	122,966
5555175	Potter Valley-Mendocino Shunt Splice	124,464
5555176	Sonoma-Pueblo Shunt Splice	123,819
5555182	Colgate-Smartville #2 Shunt Splice	123,823
5555203	Arco-Cholame Shunt Splice	127,880
5555208	Bridgeville-Cottonwood Shunt Splice	80,591
5555210	Potter Valley-Willits Shunt Splice	125,282
5555211	Centerville-Table MTN Shunt Splice	58,684
5555214	Volta-South Shunt Splice	123,823

QUESTION CPUC-PGE-AU.80

Please:

- a. Provide the FERC account to which the shunt splice costs are recorded, and
- b. Describe how the new shunt splices are depreciated in relation to the cable.

ANSWER CPUC-PGE-AU.80

- a. There are no recorded Plant Additions for these planning orders as of December 31, 2023. Job estimates and settlement rules for these orders have not been completed or finalized yet.
- b. PG&E records depreciation expense based on authorized depreciation rates at the group level, specifically by asset class. For TO20 authorized and TO21 proposed Network Transmission depreciation rates by asset class, refer to Schedule 12-DepRates from the Draft Annual Update TO21-RY2025 Formula Model.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.81		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.81		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

Questions 79 to 83 refer to numerous “Shunt Splice” POs, as shown on the table below.

Planning Order	Description	2024 Capital Additions
5555168	Los Banos-Pacheco Shunt Splice	127,901
5555170	Tulucay-Napa Shunt Splice	122,966
5555175	Potter Valley-Mendocino Shunt Splice	124,464
5555176	Sonoma-Pueblo Shunt Splice	123,819
5555182	Colgate-Smartville #2 Shunt Splice	123,823
5555203	Arco-Cholame Shunt Splice	127,880
5555208	Bridgeville-Cottonwood Shunt Splice	80,591
5555210	Potter Valley-Willits Shunt Splice	125,282
5555211	Centerville-Table MTN Shunt Splice	58,684
5555214	Volta-South Shunt Splice	123,823

QUESTION CPUC-PGE-AU.81

For POs 5555168, 5555175, 5555203 and 5555210. Please provide the cost breakdown for each PO by direct internal costs, material, contract, AFUDC, and other overheads.

ANSWER CPUC-PGE-AU.81

Please see FERC-TO21-IR-CPUC-PGE-03-AU.81_Atch01.

	1995 to 2023 Actual Amt	Jan 2024 Actual Amt	Feb 2024 Actual Amt	Mar 2024 Actual Amt	Apr 2024 Actual Amt
Cost Element			\$	\$	\$
			14,841	65,357	88,267
[-] Order Financial Costs			4,890	24,855	56,784
[-] Orders Costs-Directs & Credits			4,890	24,855	56,784
[+] Activity Type Total			438	2,830	2,052
[+] Material Total				9,890	482
[+] Contract Total			3,517	5,112	50,466
[+] Order Other Costs			935	7,022	3,783
[-] Order Financial Costs			5,085	9,526	10,810
[-] Orders Costs-Directs & Credits			5,085	9,526	10,810
[+] Activity Type Total			533	1,537	219
[+] Material Total					
[+] Contract Total			3,517	5,149	10,177
[+] Order Other Costs			1,035	2,840	414
[-] Order Financial Costs			4,204	26,568	13,950
[-] Orders Costs-Directs & Credits			4,204	26,568	13,950
[+] Activity Type Total			265	1,391	1,103
[+] Material Total				15,270	10
[+] Contract Total			3,517	5,112	10,577
[+] Order Other Costs			423	4,794	2,259
[-] Order Financial Costs			660	4,408	6,723
[-] Orders Costs-Directs & Credits			660	4,408	6,723
[+] Activity Type Total			267	1,493	2,079
[+] Material Total					907
[+] Contract Total					473
[+] Order Other Costs			393	2,915	3,265

May 2024 Actual Amt	Jun 2024 Actual Amt	Jul 2024 Actual Amt	Aug 2024 Actual Amt	Sep 2024 Plan Amt	Oct 2024 Plan Amt	Nov 2024 Plan Amt	Dec 2024 Plan Amt	2024 YTD Act Amt
\$	\$	\$	\$	\$	\$	\$	\$	\$
31,728	60,981	54,287	48,703	159,094	59,727	213,152	28,445	364,164
6,387	6,638	7,626	41,490	76,066	12,204	2,781	3,244	148,670
6,387	6,638	7,626	41,490	76,066	12,204	2,781	3,244	148,670
731	344	996		513	590	462	539	7,392
			32,688	4,728	236	1	1	43,060
4,336	5,660	5,093	5,068	69,521	10,575	1,714	2,000	79,253
1,320	633	1,537	3,734	1,304	803	604	705	18,965
5,235	1,867	3,923	1,810	4,223	4,857	198,801	6,300	38,256
5,235	1,867	3,923	1,810	4,223	4,857	198,801	6,300	38,256
475	73	1,883	355	513	590	462	1,645	5,075
		614			1			614
3,902	1,659	-1,731	808	3,048	3,505	197,743	3,200	23,481
858	135	3,156	648	662	762	596	1,455	9,086
5,563	2,229	14,288	823	69,211	7,531	7,760	6,877	67,625
5,563	2,229	14,288	823	69,211	7,531	7,760	6,877	67,625
533	138	4,128		2,516	590	1,568	539	7,558
		3,402						18,683
4,103	1,855	-730	823	62,374	6,180	4,836	5,642	25,257
927	236	7,488		4,322	761	1,356	695	16,127
14,543	50,248	28,450	4,580	9,593	35,134	3,809	12,024	109,613
14,543	50,248	28,450	4,580	9,593	35,134	3,809	12,024	109,613
5,198	8,625	7,465		513	590	462	3,648	25,127
	3,131			4,728	236			4,038
97	21,949	8,220	4,580	3,048	33,505	2,743	3,200	35,318
9,249	16,543	12,765		1,304	803	604	5,176	45,129

2024 YTD Actuals + Remaining Plan	Jan 2025 Fcst Amt	Feb 2025 Fcst Amt	Mar 2025 Fcst Amt	Apr 2025 Fcst Amt	May 2025 Fcst Amt	Jun 2025 Fcst Amt	Jul 2025 Fcst Amt	Aug 2025 Fcst Amt	Sep 2025 Fcst Amt
\$	\$	\$	\$	\$	\$	\$	\$		
824,581	26,872	14,014	15,254	15,980	15,254	14,528	2,903		
242,966	10,590	3,089	3,413	3,576	3,413	3,251	650		
242,966	10,590	3,089	3,413	3,576	3,413	3,251	650		
9,496	3,515	535	591	619	591	563	112		
48,026	1								
163,062	2,000	1,810	2,000	2,095	2,000	1,905	381		
22,381	5,074	744	822	861	822	783	156		
252,438	4,613	4,174	4,613	4,833	4,613	4,394	878		
252,438	4,613	4,174	4,613	4,833	4,613	4,394	878		
8,286	591	535	591	619	591	563	112		
615									
230,976	3,200	2,895	3,200	3,352	3,200	3,048	610		
12,561	822	744	822	861	822	783	156		
159,004	7,056	2,576	2,613	2,738	2,613	2,489	497		
159,004	7,056	2,576	2,613	2,738	2,613	2,489	497		
12,772	591	535	591	619	591	563	112		
18,683									
104,289	5,642	1,297	1,200	1,257	1,200	1,143	229		
23,261	822	744	822	861	822	783	156		
170,173	4,613	4,174	4,613	4,833	4,613	4,394	878		
170,173	4,613	4,174	4,613	4,833	4,613	4,394	878		
30,340	591	535	591	619	591	563	112		
9,002									
77,814	3,200	2,895	3,200	3,352	3,200	3,048	610		
53,017	822	744	822	861	822	783	156		

Oct 2025 Fcst Amt	Nov 2025 Fcst Amt	Dec 2025 Fcst Amt	2025 Fcst Amt	2026 Fcst Amt	2027 Fcst Amt	2028 to 2034 Forecast	Total Actual Amount	Total Forecast	Total EAC
			\$				\$	\$	\$
			104,804				364,164	565,222	929,385
			27,982				148,670	122,278	270,948
			27,982				148,670	122,278	270,948
			6,527				7,392	8,631	16,023
			1				43,060	4,967	48,027
			12,191				79,253	96,000	175,253
			9,264				18,965	12,680	31,645
			28,120				38,256	242,301	280,557
			28,120				38,256	242,301	280,557
			3,603				5,075	6,813	11,888
							614	1	615
			19,505				23,481	227,000	250,481
			5,012				9,086	8,487	17,573
			20,583				67,625	111,962	179,587
			20,583				67,625	111,962	179,587
			3,603				7,558	8,816	16,374
							18,683		18,683
			11,968				25,257	91,000	116,257
			5,012				16,127	12,146	28,273
			28,120				109,613	88,680	198,293
			28,120				109,613	88,680	198,293
			3,603				25,127	8,816	33,943
							4,038	4,964	9,002
			19,505				35,318	62,000	97,319
			5,012				45,129	12,900	58,030

Auth Amt (AJE)	Variance \$ (Auth Amt - EAC)	Variance %	% Spent (Act Since Incep/Auth Amt)	2024 YTD Plan Amt	YTD Variance (Plan - Act)	Variance %
	\$			\$	\$	%
	-929,385	DIVO	DIVO	483	-363,681	-75,318
	-270,948	DIVO	DIVO		-148,670	DIVO
	-270,948	DIVO	DIVO		-148,670	DIVO
	-16,023	DIVO	DIVO		-7,392	DIVO
	-48,027	DIVO	DIVO		-43,060	DIVO
	-175,253	DIVO	DIVO		-79,253	DIVO
	-31,645	DIVO	DIVO		-18,965	DIVO
	-280,557	DIVO	DIVO		-38,256	DIVO
	-280,557	DIVO	DIVO		-38,256	DIVO
	-11,888	DIVO	DIVO		-5,075	DIVO
	-615	DIVO	DIVO		-614	DIVO
	-250,481	DIVO	DIVO		-23,481	DIVO
	-17,573	DIVO	DIVO		-9,086	DIVO
	-179,587	DIVO	DIVO	483	-67,142	-13,905
	-179,587	DIVO	DIVO	483	-67,142	-13,905
	-16,374	DIVO	DIVO	26	-7,533	-29,425
	-18,683	DIVO	DIVO	240	-18,443	-7,691
	-116,257	DIVO	DIVO	152	-25,105	-16,475
	-28,273	DIVO	DIVO	65	-16,062	-24,676
	-198,293	DIVO	DIVO		-109,613	DIVO
	-198,293	DIVO	DIVO		-109,613	DIVO
	-33,943	DIVO	DIVO		-25,127	DIVO
	-9,002	DIVO	DIVO		-4,038	DIVO
	-97,319	DIVO	DIVO		-35,318	DIVO
	-58,030	DIVO	DIVO		-45,129	DIVO

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.82		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.82		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Nikki-Rose Apura/ Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

Questions 79 to 83 refer to numerous “Shunt Splice” POs, as shown on the table below.

Planning Order	Description	2024 Capital Additions
5555168	Los Banos-Pacheco Shunt Splice	127,901
5555170	Tulucay-Napa Shunt Splice	122,966
5555175	Potter Valley-Mendocino Shunt Splice	124,464
5555176	Sonoma-Pueblo Shunt Splice	123,819
5555182	Colgate-Smartville #2 Shunt Splice	123,823
5555203	Arco-Cholame Shunt Splice	127,880
5555208	Bridgeville-Cottonwood Shunt Splice	80,591
5555210	Potter Valley-Willits Shunt Splice	125,282
5555211	Centerville-Table MTN Shunt Splice	58,684
5555214	Volta-South Shunt Splice	123,823

QUESTION CPUC-PGE-AU.82

Please explain why these projects are capitalized instead of being treated as operations and maintenance expense.

ANSWER CPUC-PGE-AU.82

PG&E treats shunt splices as a capital asset and therefore capitalizes the installation/replacement of these units.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.83		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.83		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

SUBJECT: CAPITAL ADDITIONS

Questions 79 to 83 refer to numerous “Shunt Splice” POs, as shown on the table below.

Planning Order	Description	2024 Capital Additions
5555168	Los Banos-Pacheco Shunt Splice	127,901
5555170	Tulucay-Napa Shunt Splice	122,966
5555175	Potter Valley-Mendocino Shunt Splice	124,464
5555176	Sonoma-Pueblo Shunt Splice	123,819
5555182	Colgate-Smartville #2 Shunt Splice	123,823
5555203	Arco-Cholame Shunt Splice	127,880
5555208	Bridgeville-Cottonwood Shunt Splice	80,591
5555210	Potter Valley-Willits Shunt Splice	125,282
5555211	Centerville-Table MTN Shunt Splice	58,684
5555214	Volta-South Shunt Splice	123,823

QUESTION CPUC-PGE-AU.83

Please explain whether PG&E has included any forecast 2025 capital additions for shunt splice work. If it has, please identify the PO that contains the forecast. If it has not, please explain why not.

ANSWER CPUC-PGE-AU.83

PG&E forecast \$96,303 of 2025 capital additions in WP_9 under Planning Orders 5550833. However, based on updated information PG&E may not proceed with that work because this work no longer falls within scope of the Shunt Splice Program.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.84		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.84		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Manuel Mandujano

SUBJECT: CAPITAL ADDITIONS

Questions 84 to 87 refer to numerous “C30 Annunciator” POs, as shown in the table below.

Planning Order	Description	2024 Capital Additions	2025 Capital Additions
5552979	ATWATER: Repl 2 C30 Annun	564,564	45,097
5552980	BORDEN: Repl 3 C30 Annun	63,209	21,180
5552981	CROW CREEK: Repl 2 C30 Annun	132,136	507,653
5552982	HELM SUB: Repl 2 C30 Annun	50,806	34,591
5552984	KASSON: Repl 2 C30 Annun	52,559	28,327
5552985	KING CITY: Repl 2 C30 Annun	95,238	46,318
5552999	LIVINGSTON: Repl 2 C30 Annun	350,775	257,866
5553001	MADERA: Repl 2 C30 Annun	218,784	388,897
5553002	MENDOTA: Repl 2 C30 Annun	68,053	540,511
5553003	MERCY SPRINGS SW: Repl 2 C30 Annun	347,944	257,866
5553004	MI-WUK: Repl C30-1 Annun	77,436	517,129
5553005	ORO LOMA: Repl 3 C30 Annun	98,776	510,208
5553007	SALADO: Repl 2 C30 Annun	261,366	325,643
5553008	SALINAS: Repl 4 C30 Annun	109,127	49,275
5553009	SAN BENITO: Repl 2 C30 Annun	88,680	46,318
5553011	SOLEDAD: Repl 2 C30 Annun	94,662	37,965
5553012	WILSON: Repl C30-1 Annun	334,522	257,867

QUESTION CPUC-PGE-AU.84

Please provide a detailed description of the scope of work performed under the above C30 Annunciator POs, including the reasons for replacing the annunciators and a description of any additional functionality or capacity provided.

ANSWER CPUC-PGE-AU.84

Due to the DNP3 vulnerability published in ICSA-20-105-02, where a specially crafted message may cause a stack-based buffer overflow, the firmware of all GE relays annunciators needs to be updated to version 7.28 in order to be within compliance.

GE relay annunciator that are listed will need to have the hardware replaced and be treated as a full relay replacement.

There will be settings changes that could affect the protocol used to provide SCADA data. Automation technical guidance, retesting, and new settings will need to be coordinated and provided by the respective stakeholders.

These projects will have project management oversight to coordinate support efforts from System Automation, System Protection, Engineering/Design and Test workgroups.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.85		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.85		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Manuel Mandujano

SUBJECT: CAPITAL ADDITIONS

Questions 84 to 87 refer to numerous “C30 Annunciator” POs, as shown in the table below.

Planning Order	Description	2024 Capital Additions	2025 Capital Additions
5552979	ATWATER: Repl 2 C30 Annun	564,564	45,097
5552980	BORDEN: Repl 3 C30 Annun	63,209	21,180
5552981	CROW CREEK: Repl 2 C30 Annun	132,136	507,653
5552982	HELM SUB: Repl 2 C30 Annun	50,806	34,591
5552984	KASSON: Repl 2 C30 Annun	52,559	28,327
5552985	KING CITY: Repl 2 C30 Annun	95,238	46,318
5552999	LIVINGSTON: Repl 2 C30 Annun	350,775	257,866
5553001	MADERA: Repl 2 C30 Annun	218,784	388,897
5553002	MENDOTA: Repl 2 C30 Annun	68,053	540,511
5553003	MERCY SPRINGS SW: Repl 2 C30 Annun	347,944	257,866
5553004	MI-WUK: Repl C30-1 Annun	77,436	517,129
5553005	ORO LOMA: Repl 3 C30 Annun	98,776	510,208
5553007	SALADO: Repl 2 C30 Annun	261,366	325,643
5553008	SALINAS: Repl 4 C30 Annun	109,127	49,275
5553009	SAN BENITO: Repl 2 C30 Annun	88,680	46,318
5553011	SOLEDAD: Repl 2 C30 Annun	94,662	37,965
5553012	WILSON: Repl C30-1 Annun	334,522	257,867

QUESTION CPUC-PGE-AU.85

Please:

- a. Explain whether the C30 Annunciator Replacements are part of a larger program at PG&E and, if so,
- b. Provide a description of the program in terms of program length, number of stations affected, number of stations completed, number of stations remaining, and estimated program cost by year.

ANSWER CPUC-PGE-AU.85

- a. Yes, the C30 Annunciator Replacement program consists of a larger program targeting system wide relays to mitigate the vulnerability from outdated firmware that is a compliance risk.

- b. The program consists of approximately 417 units system wide that will require complete relay hardware replacements, which will be treated as capital replacements. The program is planned to be completed in approximately 5 years. Currently there are 22 stations with a total of 45 units authorized for replacement. The projects are estimated at \$50,000 per unit.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.86		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.86		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

SUBJECT: CAPITAL ADDITIONS

Questions 84 to 87 refer to numerous “C30 Annunciator” POs, as shown in the table below.

Planning Order	Description	2024 Capital Additions	2025 Capital Additions
5552979	ATWATER: Repl 2 C30 Annun	564,564	45,097
5552980	BORDEN: Repl 3 C30 Annun	63,209	21,180
5552981	CROW CREEK: Repl 2 C30 Annun	132,136	507,653
5552982	HELM SUB: Repl 2 C30 Annun	50,806	34,591
5552984	KASSON: Repl 2 C30 Annun	52,559	28,327
5552985	KING CITY: Repl 2 C30 Annun	95,238	46,318
5552999	LIVINGSTON: Repl 2 C30 Annun	350,775	257,866
5553001	MADERA: Repl 2 C30 Annun	218,784	388,897
5553002	MENDOTA: Repl 2 C30 Annun	68,053	540,511
5553003	MERCY SPRINGS SW: Repl 2 C30 Annun	347,944	257,866
5553004	MI-WUK: Repl C30-1 Annun	77,436	517,129
5553005	ORO LOMA: Repl 3 C30 Annun	98,776	510,208
5553007	SALADO: Repl 2 C30 Annun	261,366	325,643
5553008	SALINAS: Repl 4 C30 Annun	109,127	49,275
5553009	SAN BENITO: Repl 2 C30 Annun	88,680	46,318
5553011	SOLEDAD: Repl 2 C30 Annun	94,662	37,965
5553012	WILSON: Repl C30-1 Annun	334,522	257,867

QUESTION CPUC-PGE-AU.86

Please provide the FERC account to which C30 Annunciator costs are recorded and describe how the new annunciators are depreciated.

ANSWER CPUC-PGE-AU.86

There are no recorded plant additions for these planning orders as of December 31, 2023. It is currently estimated that some of these future costs will be recorded to FERC Plant Accounts 353 (Station Equipment) and 397 (Communication Equipment).

PG&E records depreciation expense based on authorized depreciation rates at the group level, specifically by asset class. For TO20 authorized and TO21 proposed Network Transmission depreciation rates by asset class, refer to Schedule 12-DepRates from the Draft Annual Update TO21-RY2025 Formula Model.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.87		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.87		
Request Date:	August 27, 2024	Response Date:	October 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Manuel Mandujano

SUBJECT: CAPITAL ADDITIONS

Questions 84 to 87 refer to numerous “C30 Annunciator” POs, as shown in the table below.

Planning Order	Description	2024 Capital Additions	2025 Capital Additions
5552979	ATWATER: Repl 2 C30 Annun	564,564	45,097
5552980	BORDEN: Repl 3 C30 Annun	63,209	21,180
5552981	CROW CREEK: Repl 2 C30 Annun	132,136	507,653
5552982	HELM SUB: Repl 2 C30 Annun	50,806	34,591
5552984	KASSON: Repl 2 C30 Annun	52,559	28,327
5552985	KING CITY: Repl 2 C30 Annun	95,238	46,318
5552999	LIVINGSTON: Repl 2 C30 Annun	350,775	257,866
5553001	MADERA: Repl 2 C30 Annun	218,784	388,897
5553002	MENDOTA: Repl 2 C30 Annun	68,053	540,511
5553003	MERCY SPRINGS SW: Repl 2 C30 Annun	347,944	257,866
5553004	MI-WUK: Repl C30-1 Annun	77,436	517,129
5553005	ORO LOMA: Repl 3 C30 Annun	98,776	510,208
5553007	SALADO: Repl 2 C30 Annun	261,366	325,643
5553008	SALINAS: Repl 4 C30 Annun	109,127	49,275
5553009	SAN BENITO: Repl 2 C30 Annun	88,680	46,318
5553011	SOLEDAD: Repl 2 C30 Annun	94,662	37,965
5553012	WILSON: Repl C30-1 Annun	334,522	257,867

QUESTION CPUC-PGE-AU.87

For POs 5552979, 5552999, 5553003, 5553012, and 5553007. Please provide the cost breakdown for each PO by direct internal costs, material, contract, AFUDC, and other overheads.

ANSWER CPUC-PGE-AU.87

Plan Number	PO Number	Location	Direct Internal Costs	Material	Contracts	AFUDC	Other/Overheads	Comments
5552979	74053720	ATWATER	\$ 52,809.00	\$ 14,300.00	\$0	\$ 15,721.00	\$ 3,889.00	Atwater - C30 Replacement - Completed
5552999	74053740	LIVINGSTON	\$ 55,409.00	\$ 16,516.00	\$0	\$ 7,548.00	\$ 4,411.00	Livingston - C30 Replacement - Completed
5553003	74053744	MERCYSPRINGS	\$ 58,896.00	\$ 15,022.00	\$0	\$ 11,994.00	\$ 4,026.00	Mercy Springs will not start until 2Q 2025
5553012	74053753	WILSON	\$ 49,300.00	\$ 8,361.00	\$0	\$ 9,666.00	\$ 2,444.00	Wilson will not start until 2Q 2025
5553007	74053748	SALADO	\$ 54,655.00	\$ 17,954.00	\$0	\$ 17,968.00	\$ 4,846.00	Salado - C30 Replacement - completed

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.88		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.88		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

QUESTION CPUC-PGE-AU.88

For PO 5550941, “FAIRHAVEN: EM REPLACE SSVT”, 2024 and 2025 capital additions are “340,664” and “13,335”, respectively. Please provide a detailed description of the scope of work performed under this PO.

ANSWER CPUC-PGE-AU.88

The scope of work for PO 5550941 is to replace the SSVT with a 60kV 50KVA SSVT, including its structure and foundation if necessary.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.89		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.89		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

QUESTION CPUC-PGE-AU.89

For PO 5550941, “FAIRHAVEN: EM REPLACE SSVT”, please provide the cost breakdown by direct internal costs, material, contract, AFUDC, and other overheads.

ANSWER CPUC-PGE-AU.89

See below for the cost breakdown in PO 5550941, on the Estimate at Completion, as of 9/20/2024.

				Total EAC \$
WBS Element Level 2	Order		Cost Element	\$
Overall Result				346,961
T.0008690.01	74050060	FAIRHAVEN: EM REPLACE SSVT	[-] Order Financial Costs	346,961
			[-] Orders Costs-Directs & Credits	346,961
			[+] Activity Type Total	53,944
			[+] Material Total	153,778
			[+] Contract Total	15,419
			[+] Order Other Costs	123,819

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.90		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.90		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

QUESTION CPUC-PGE-AU.90

For PO 5547921, “Almaden: Updt CT Ratios on Terminals”, 2024 capital additions are “186,487”. Please provide a detailed description of the scope of work performed under this PO.

ANSWER CPUC-PGE-AU.90

Please find the scope of work performed as below for both Bank 1 & Bank 3:

- Installed SEL-387 relay, associated test switches and cut-in/cut-out switch
- Connected the SEL-387 relay IW1 inputs to the bank high side inner CTs (in series with 51T/TT IX relay inputs)
- Connected the SEL-387 relays IW2 inputs to 12kV switchgear breakers CTs (in series with 87T (SEL-587) IW2 relay inputs).
- Removed supervision from existing 87T (SEL-587) relay on sudden fault pressure tripping.
- Connected new SEL-387E relays to existing RS416 Terminal Server #5 (via DB9 patch cable) for remote access
- Connected new SEL-387E relay fail alarms to existing GE-C30 Annunciator (Dev 30-1) and tied to HMI

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.91		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.91		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

QUESTION CPUC-PGE-AU.91

For PO 5547921, “Almaden: Updt CT Ratios on Terminals”, please provide the cost breakdown by direct internal costs, material, contract, AFUDC, and other overheads.

ANSWER CPUC-PGE-AU.91

The cost breakdown for actuals to date on 74044688/5547921 Almaden: Updt CT Ratios on Terminals. No AFUDC was charged to the job.

[-] Orders Costs-Directs & Credits	508,012
[+] Activity Type Total	143,790
[+] Material Total	48,347
[+] Contract Total	21,012
[+] Order Other Costs	294,863

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.92		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.92		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu/ Nikki Apura

QUESTION CPUC-PGE-AU.92

For PO 5547921, “Almaden: Updt CT Ratios on Terminals”, please explain why this project is capitalized instead of being treated as operations and maintenance expense.

ANSWER CPUC-PGE-AU.92

This is a capital project which new relays were installed for Bank 1 & Bank 3 as part of this project. Please refer to response to AU.90.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.93		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.93		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

QUESTION CPUC-PGE-AU.93

For PO 5798127, “Caribou-Plumas Jct Rebuild”, 2024 and 2025 capital additions of “6,582,013” and “11,758,210”, respectively. are shown. Please:

- a. Provide the current status of this project, and
- b. Describe in detail the actual and forecast capital additions in RY2024.

ANSWER CPUC-PGE-AU.93

- a. The project status is currently in Engineering stage at 30% design. PO 5798127 is associated with the line rebuild under emergency conditions and, after further investigation of rebuild construction, major issues were identified. The effort to address these issues and convert temporary line rebuild into permanent line was given a new order number (PO 5810498). There is a capital spend component from the original PO number that is dependent on this new order number, such as finishing up the stabilization and decommissioning of access roads from the original emergency order.
- b. Since PO 5810498 is new, the forecasts for this project are still under PO 5798127. For 2024, the remaining forecast shows approximately \$2M, which is for the civil access road restoration to meet Water Board standards. For 2025, we have forecasted \$10M for decommissioning the remaining access roads. For 2026, we have forecasted \$2M in risk of that work spilling into the following year due to the short summer construction season limitations.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.94		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.94		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Michelle Sakamoto

QUESTION CPUC-PGE-AU.94

For PO 5507680, “2020-2022 Insulator program”, 2024 capital additions total “15,547,189”, with \$1,554,719 being shown each month from March 2024 through December 2024. Please:

- a. Explain whether the 2024 insulator replacements are part of a larger program at PG&E and, if so,
- b. Provide a description of the program in terms of program length, number of insulators affected, number of replacements completed, number of replacements remaining, and estimated program cost by year.

ANSWER CPUC-PGE-AU.94

- a. The insulator replacement program is part of the larger maintenance tag program, which addresses asset condition, governed by CPUC GO-95 Rule 18.
- b. The program is an ongoing control as such, it does not have an end date. For 2024, across all steel structure insulator replacement PO numbers, PG&E expects:

Approximately 750 insulators in scope for replacement

- Approximately 500 insulators replaced to date
- Approximately 250 insulator replacements remaining by end of year
- Overall estimated program cost for 2024: \$38M. Future years are forecasted at the overall maintenance tag bucket level and are generally not split out by specific asset tag category until the current year detailed plan is created.

Please note that insulators may also be replaced as part of other projects and programs, such as structure replacements, so the above numbers do not represent complete insulator replacement counts system-wide.

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.95		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.95		
Request Date:	August 27, 2024	Response Date:	September 20, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Michelle Sakamoto

QUESTION CPUC-PGE-AU.95

For PO 5507680, “2020-2022 Insulator program”, please provide the actual number of insulator replacements in 2024 YTD, along with the recorded cost per month.

ANSWER CPUC-PGE-AU.95

Year to date, 501 insulators on steel structures have been replaced. The recorded cost per month is listed below.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
\$5,524,321	\$3,275,240	\$4,525,336	\$4,017,423	\$4,188,318	\$3,999,538	\$2,611,431	\$2,998,081

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.96		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.96		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Rich Neumann

Questions 96 to 99 refer to numerous POs that are part of PG&E’s Transmission SCADA Replacement Program (TSRP). PG&E’s RY2025 Workpaper 9, Tab 4, includes numerous POs relating to the “TSRP” program, as shown in the table below, summarized by planning order description and line numbers, given the same description applies to numerous rows. Please note this is not an exhaustive list of all TSRP-related POs.

Line No. as shown in Column A of WP-9, Tab 4	Planning Order Name (location)
Lines 189-198	TSRP_NS_SUB_(location)
Lines 199-247	TSRP_SV_SUB_(location)
Lines 248-251	TSRP_NBS_SUB_(location)
Lines 256-285	TSRP_SC_T-Line_(location)
Lines 295-302	TSRP_BA_T-Line_(location)
Lines 310-321	TSRP_BA_SUB_(location)
Lines 322-330	TRSP_SC_SUB_(location)

QUESTION CPUC-PGE-AU.96

Please:

- a. Explain whether this TSRP is part of a larger, ongoing program at PG&E and, if so,
- b. Provide a description of the program in terms of program length, number of replacements affected, number of replacements completed, number of replacements remaining, and estimated program cost by year. Please include a description of any new functionality or capacity added to the transmission system.

ANSWER CPUC-PGE-AU.96

- a. The Transmission SCADA Replacement Program (TSRP) is an ongoing program. TSRP will transition transmission level SCADA monitoring and control from RTscada to the GE EMS platform (EMS.)
- b. Electric Operations (EO) primary SCADA platform has been RTscada by DC Systems. This Microsoft Access based platform polls data from ~1,360 locations (substations, transmission

line switches, and third-party interconnects) throughout PG&E’s service territory. RTscada is antiquated, complex, and poses cyber security challenges.

Transitioning off RTscada onto the EMS platform will improve SCADA reliability, cyber security, operational efficiency and enable the grid of the future. To safely and reliably perform this transition, TSRP will execute scope both within the centralized EMS application and across the ~1,360 field locations noted above.

TSRP commenced in 2017. Currently, approximately 33% of our service territory (the Northern portion) has transitioned SCADA monitoring and control off RTscada onto EMS. To minimize any transitional risk to Transmission Operations (TO,) SCADA is cutover from the legacy (RTscada) system to the new (EMS) system in large groupings based up geography and grid connectivity. TSRP is currently performing required scope throughout our service territory in support of future cutovers. TSRP has completed required upgrades, EMS configuration, and testing for ~60% of our service territory.

Annual cost forecast for TSRP going forward shown in table below.

Inception to Date	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast
\$158M	\$34M	\$33M	\$32M	\$30M	\$20M	\$20M	\$20M	\$3M

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.97		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.97		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Rich Neumann

Questions 96 to 99 refer to numerous POs that are part of PG&E’s Transmission SCADA Replacement Program (TSRP). PG&E’s RY2025 Workpaper 9, Tab 4, includes numerous POs relating to the “TSRP” program, as shown in the table below, summarized by planning order description and line numbers, given the same description applies to numerous rows. Please note this is not an exhaustive list of all TSRP-related POs.

Line No. as shown in Column A of WP-9, Tab 4	Planning Order Name (location)
Lines 189-198	TSRP_NS_SUB_(location)
Lines 199-247	TSRP_SV_SUB_(location)
Lines 248-251	TSRP_NBS_SUB_(location)
Lines 256-285	TSRP_SC_T-Line_(location)
Lines 295-302	TSRP_BA_T-Line_(location)
Lines 310-321	TSRP_BA_SUB_(location)
Lines 322-330	TRSP_SC_SUB_(location)

QUESTION CPUC-PGE-AU.97

Referencing the table above, please provide a detailed description of the listed TSRP projects, without using abbreviations.

ANSWER CPUC-PGE-AU.97

To better manage TSRP’s large scope, logical work groupings have been created based upon geographic and grid connectivity as well as work location type. Cutover from RTscada to EMS SCADA monitoring and control will take place in six groupings based upon geographic and grid connectivity. These groupings are referred to as Areas of Responsibilities (AORs.) The six AORs are:

- North State (NS)
- North Bay Sierra (NBS)
- Central Valley (CV)

- South Valley (SV)
- South Coast (SC)
- Bay Area Metro (BA)

Note, per CPUC-PGE-AU.96: TSRP has cutover SCADA from RTscada to EMS monitoring and control for two of our six AORs to date; North State and North Bay Sierra.

For each AOR, two work location types are defined:

- Work within substation (SUB)
- Work at field switches along the transmission lines (T-line)

Per this scheme, non-abbreviated planning order names are:

Line No. as shown in Column A of WP-9, Tab 4	Planning Order Name_(location)	Non-Abbreviated Planning Order Name
Lines 189-198	TSRP_NS_SUB_(location)	TSRP_North State_Substation
Lines 199-247	TSRP_SV_SUB_(location)	TSRP_South Valley_Substation
Lines 248-251	TSRP_NBS_SUB_(location)	TSRP_North Bay Sierra_Substation
Lines 256-285	TSRP_SC_T-Line_(location)	TSRP_South Coast_Transmission Line
Lines 295-302	TSRP_BA_T-Line_(location)	TSRP_Bay Area Metro_Transmission Line
Lines 310-321	TSRP_BA_SUB_(location)	TSRP_Bay Area Metro_Substation
Lines 322-330	TRSP_SC_SUB_(location)	TSRP_South Coast_Substation

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.98		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.98		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Rich Neumann/Nikki-Rose Apura

Questions 96 to 99 refer to numerous POs that are part of PG&E’s Transmission SCADA Replacement Program (TSRP). PG&E’s RY2025 Workpaper 9, Tab 4, includes numerous POs relating to the “TSRP” program, as shown in the table below, summarized by planning order description and line numbers, given the same description applies to numerous rows. Please note this is not an exhaustive list of all TSRP-related POs.

Line No. as shown in Column A of WP-9, Tab 4	Planning Order Name_(location)
Lines 189-198	TSRP_NS_SUB_(location)
Lines 199-247	TSRP_SV_SUB_(location)
Lines 248-251	TSRP_NBS_SUB_(location)
Lines 256-285	TSRP_SC_T-Line_(location)
Lines 295-302	TSRP_BA_T-Line_(location)
Lines 310-321	TSRP_BA_SUB_(location)
Lines 322-330	TRSP_SC_SUB_(location)

QUESTION CPUC-PGE-AU.98

Please explain why POs within the TSRP project are capitalized instead of being treated as operations and maintenance expense.

ANSWER CPUC-PGE-AU.98

TSRP is adding new SCADA functionality for Transmission Operations and infrastructure that does not exist under current system, RTscada. TSRP scope includes (scope varies from location to location, not all scope shown below required at all locations:)

- Building display screens and monitoring/alarming/control capabilities for field SCADA devices within the EMS application that did not previously exist
- Upgrading/installing physical infrastructure to support the reliable transit of SCADA telemetry between the field and the EMS applications.
- To support a modern, fully capable SCADA system, the server that sends and receives telemetry located at the substation or T-line switch (referred to as an “RTU” or “HMI”) must be a digital capable device. Many locations have legacy analog devices that must be upgraded.

- To support a modern, fully capable SCADA system, the communication path from the field into EMS must be a secure, TCP/IP connection. Many locations have analog comm paths (e.g. analog modems over phone lines or analog radios) that must be upgraded.
 - To assure the HMI/RTUs and comm paths noted above can operate in a secure and reliable manner, additional improvements may be required at field locations including:
 - New conduit and fiber to support the comms link.
 - New routers, switches, and ancillary comm gear along with additional rack space to support new equipment.
 - New HVAC or other environmental controls to assure the sensitive electronic equipment (e.g. routers, switches, RTUs) are in an appropriately controlled environment to minimize risk of premature equipment failure.
 - New power panels and station batteries to assure adequate power to support equipment under normal operations and in emergencies where adequate battery capacity is necessary to power equipment if station power is lost.
 - Development of new display screens and alarm schemes within EMS that will improve operator situational awareness, thus reducing the risk of operational error.
- TSRP introduces substantial new SCADA capabilities and improves SCADA reliability and resilience well beyond our current RTscada system.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.99		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.99		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Rich Neumann

Questions 96 to 99 refer to numerous POs that are part of PG&E’s Transmission SCADA Replacement Program (TSRP). PG&E’s RY2025 Workpaper 9, Tab 4, includes numerous POs relating to the “TSRP” program, as shown in the table below, summarized by planning order description and line numbers, given the same description applies to numerous rows. Please note this is not an exhaustive list of all TSRP-related POs.

Line No. as shown in Column A of WP-9, Tab 4	Planning Order Name (location)
Lines 189-198	TSRP_NS_SUB_(location)
Lines 199-247	TSRP_SV_SUB_(location)
Lines 248-251	TSRP_NBS_SUB_(location)
Lines 256-285	TSRP_SC_T-Line_(location)
Lines 295-302	TSRP_BA_T-Line_(location)
Lines 310-321	TSRP_BA_SUB_(location)
Lines 322-330	TRSP_SC_SUB_(location)

QUESTION CPUC-PGE-AU.99

For PO 5788807, “TSRP_NBS_SUB_FORT ROSS”, the “Operative Month” is shown as “Jun-22”. 2024 capital additions are shown as “141,580”. Please explain the need for these capital additions when the project was placed in service in 2022.

ANSWER CPUC-PGE-AU.99

To support the SCADA cutover from RTscada to EMS for the North Bay Sierra AOR, Fort Ross substation was initially cutover using legacy RTscada infrastructure. This is a temporary solution that does not relieve the risks/challenges associated with the legacy RTscada application. The order was marked operational upon cutover from RTscada to EMS monitoring and control.

Capital addition charges accrued in 2024 as the project returned to the substation to perform remaining upgrades (as noted in response to CPUC-PGE-AU.98) necessary to fully transition Fort Ross off RTscada infrastructure. TSRP endeavors to balance the need to cutover SCADA to EMS monitoring and control as soon as possible with the need to perform substantial and time-

consuming infrastructure upgrades. Some locations, including Fort Ross, are cutover using legacy RTscada infrastructure to prevent a small handful of outlier locations from substantially delaying TSRP cutover schedule. The program returns to the location post-cutover to execute remaining required work.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.100		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.100		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

QUESTION CPUC-PGE-AU.100

For POs 5547633, “2022 Cathodic Protection Installs” and 5542903, “Tower Cathodic Protection-Mitigation”, please provide a detailed work plan supporting the cathodic protection work conducted in 2024 and 2025 (actual and forecast), including the location and age of the tower protected, associated transmission line and voltage, structure number, the total cost and cost per unit, the cost of any inspections or assessments, and the PO number associated with the cathodic protection of each structure.

ANSWER CPUC-PGE-AU.100

For 2024, please refer to PG&E’s response for CPUC-PGE-131. The 2025 Workplans are still under development in the investment planning process.

For 2024, year-to-date through July:

- Costs: \$8.15M
- Unit Cost \$11.1K (this is blended unit cost between field investigation and Cathodic Protection installs)

Planning order associated: 5547633 Cathodic Protection Installs

Inspection and assessment cost is not included, or part, of the Corrosion control planning orders.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.101		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.101		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

QUESTION CPUC-PGE-AU.101

For POs 5547633, “2022 Cathodic Protection Installs” and 5542903, “Tower Cathodic Protection-Mitigation”, please provide the monthly recorded costs for each PO since the Cathodic Protection Installs program began.

ANSWER CPUC-PGE-AU.101

Recorded cost for 2023, which is the prior year used for the Rate Year 2025 Annual Update, are provided in FERC-TO21_IR_CPUC-PGE_03-AU.101_Atch01.xls

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.102		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.102		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

QUESTION CPUC-PGE-AU.102

For PO 5542903, “Tower Cathodic Protection-Mitigation”, please explain why the 2025 forecast capital additions are less than half of what is forecast in 2024 capital additions.

ANSWER CPUC-PGE-AU.102

The forecast included in the Draft Annual Update was a snapshot as of March 2024. However, PG&E has continued to refine its 2025 forecast since that time and expects that the forecast in the revised Draft Annual Update in November will be more up to date than the March 2024 forecast.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.103		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.103		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

Questions 103 to 106 refer to the Planning Orders associated with the Grizzly Powerhouse:

Grizzly PH – WRO				
Planning Order	Planning Order Description	Operative Month	2024 Capital Additions	2025 Capital Additions
5785299	BUCKS CREEK PH RECONNECTION SUB NU WORK	Dec-23	4,831,416	31,932
5785300	Grizzly PH Reconnect T-Line Work NU	Dec-23	96,917	
5790518	CRESTA PH Remote Ends	Aug-25		4,193,185
5790519	ROCK CREEK PH Remote Ends	Aug-25		6,269,763
5790520	GRIZZLY PH Remote Ends	Dec-23	192,779	
Total			5,121,112	10,494,880

QUESTION CPUC-PGE-AU.103

Please provide the construction schedule for completion of the Grizzly Powerhouse project POs listed above and identify the date the Grizzly facility is anticipated to resume or resumed delivering power to the grid following the November 2018 Camp Fire.

ANSWER CPUC-PGE-AU.103

See below for the construction schedule on the identified POs. The Grizzly facility resumed delivering power to the grid since 12/19/2023.

Planning Order	Description	Construction Start	Construction End	Operative Date
5785299	BUCKS CREEK PH RECONNECTION SUB NU WORK	4/25/2022	5/14/2025	12/19/2023
5785300	Grizzly PH Reconnect T-Line Work NU	7/11/2023	7/19/2023	12/19/2023
5790518	CRESTA PH Remote Ends	11/7/2025	4/13/2026	2/27/2026
5790519	ROCK CREEK PH Remote Ends	3/3/2025	4/13/2026	2/27/2026
5790520	GRIZZLY PH Remote Ends	9/8/2022	12/19/2023	12/19/2023

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.104		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.104		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

Questions 103 to 106 refer to the Planning Orders associated with the Grizzly Powerhouse:

Grizzly PH – WRO				
Planning Order	Planning Order Description	Operative Month	2024 Capital Additions	2025 Capital Additions
5785299	BUCKS CREEK PH RECONNECTION SUB NU WORK	Dec-23	4,831,416	31,932
5785300	Grizzly PH Reconnect T-Line Work NU	Dec-23	96,917	
5790518	CRESTA PH Remote Ends	Aug-25		4,193,185
5790519	ROCK CREEK PH Remote Ends	Aug-25		6,269,763
5790520	GRIZZLY PH Remote Ends	Dec-23	192,779	
Total			5,121,112	10,494,880

QUESTION CPUC-PGE-AU.104

Referring to the above table of Grizzly Powerhouse POs, please:

- a. Provide the temporary power costs, by month, that PG&E has included in the above-listed POs.
- b. Identify the uses of the temporary power (e.g., construction, station service, serve load, etc.). If the power was used to serve customer load, indicate the portion of the costs that pay for energy served to customers.

ANSWER CPUC-PGE-AU.104

- a. All temporary generation costs are associated with PO 5785299 only; no other above-listed POs included temporary power costs. See below for the temporary power costs, by month on PO 5785299.

Temp Generation Costs

Apr-22	\$498,332	actual
May-22	\$70,149	actual
Jun-22	\$286,132	actual
Jul-22	\$158,984	actual
Aug-22	\$115,796	actual
Sep-22	\$113,704	actual
Oct-22	\$333,532	actual
Aug-23	\$231,507	actual
Sep-23	\$127,436	actual
Oct-23	\$114,139	actual
Nov-23	\$463,708	actual
Dec-23	\$405,995	actual
	\$2,919,414	Total

- b. The temporary power was used to serve customers while constructing the upgrades at Bucks Creek for the Grizzly Powerhouse.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.105		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.105		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

Questions 103 to 106 refer to the Planning Orders associated with the Grizzly Powerhouse:

Grizzly PH – WRO				
Planning Order	Planning Order Description	Operative Month	2024 Capital Additions	2025 Capital Additions
5785299	BUCKS CREEK PH RECONNECTION SUB NU WORK	Dec-23	4,831,416	31,932
5785300	Grizzly PH Reconnect T-Line Work NU	Dec-23	96,917	
5790518	CRESTA PH Remote Ends	Aug-25		4,193,185
5790519	ROCK CREEK PH Remote Ends	Aug-25		6,269,763
5790520	GRIZZLY PH Remote Ends	Dec-23	192,779	
Total			5,121,112	10,494,880

QUESTION CPUC-PGE-AU.105

Please:

- a. Confirm the above-listed 5 POs in RY2024 include all of PG&E’s costs associated with the Grizzly Powerhouse interconnection project or, if costs are logged to additional POs, please provide them.
- b. If all POs are less than 100% of the cost, identify what portion of costs are not included in transmission rates and explain why.

ANSWER CPUC-PGE-AU.105

- a. Yes, the above-listed 5 POs include all of PG&E’s costs associated with the Grizzly Powerhouse interconnection project.

- b. 100% of the cost in the above-listed 5 POs are included in the transmission rates.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.106		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.106		
Request Date:	August 27, 2024	Response Date:	October 7, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

Questions 103 to 106 refer to the Planning Orders associated with the Grizzly Powerhouse:

Grizzly PH – WRO				
Planning Order	Planning Order Description	Operative Month	2024 Capital Additions	2025 Capital Additions
5785299	BUCKS CREEK PH RECONNECTION SUB NU WORK	Dec-23	4,831,416	31,932
5785300	Grizzly PH Reconnect T-Line Work NU	Dec-23	96,917	
5790518	CRESTA PH Remote Ends	Aug-25		4,193,185
5790519	ROCK CREEK PH Remote Ends	Aug-25		6,269,763
5790520	GRIZZLY PH Remote Ends	Dec-23	192,779	
Total			5,121,112	10,494,880

QUESTION CPUC-PGE-AU.106

For each of the above-listed Grizzly Powerhouse-related POs that achieved operation in December 2023, please provide the 2023 recorded capital additions.

ANSWER CPUC-PGE-AU.106

See below for the 2023 actual costs on each of the three above-listed Grizzly Powerhouse-related POs that achieved operation in December 2023.

Planning Order	Planning Order Description	Operative Month	2023 Cost
5785299	BUCKS CREEK PH RECONNECTION SUB NU WORK	Dec-23	\$11,013,282
5785300	Grizzly PH Reconnect T-Line Work NU	Dec-23	\$986,063
5790520	GRIZZLY PH Remote Ends	Dec-23	\$1,468,719
Total			\$13,468,064

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.107		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.107		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

QUESTION CPUC-PGE-AU.107

For PO 5549743, “Tower Coating Program Capital”, for January 2024 and February 2024, capital additions are “1,108,806” and “1,384,344”, respectively. Please provide a detailed work plan showing the location and age of the tower coated, associated transmission line and voltage, structure number, the total cost and cost per unit, the cost of any inspections or assessments, and the PO number(s) associated with the tower coating of each structure.

ANSWER CPUC-PGE-AU.107

Please see FERC-TO21-IR-CPUC-PGE-03-AU.107_Atch01.xls

2024 February YTD: \$2.67M. Month to month the cost might fluctuate due to many reasons (e.g. vendor accrual and true ups). Towers with unknown age get reviewed and capital/expense adjustment are made quarterly.

2024 February YTD Unit cost: \$102.8K/unit

No inspection or assessment cost included in Planning Order 5549743

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.108		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.108		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

QUESTION CPUC-PGE-AU.108

For PO 5542459, “Corrosion Control MWC 93”, 2024 and 2025 capital additions of “19,541,486” and “50,372,892”, respectively, are shown. Please

- a. Provide a detailed work plan supporting the corrosion control activities conducted in 2024 and 2025 within this PO, including the location and age of the structure protected, structure number, the total cost and cost per unit, and the cost of any inspections and assessments.
- b. Discuss why there is a doubling of the 2025 capital additions from 2024 levels.

ANSWER CPUC-PGE-AU.108

- a. PG&E uses PO 5542459 as a budget placeholder for the Corrosion Control program in MAT 93V. MAT 93V includes Cathodic protection, Tower coating, and Arc Fault Mitigation programs. Please specify which program you would like to get additional details for.
- b. Refer to PG&E’s response to CPUC-PGE-ED_001-Q029(e) in the CPUC’s Transmission Project Review (TPR) Process.

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.109		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.109		
Request Date:	August 27, 2024	Response Date:	September 20, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Paula Conner/Justin Napper

Questions 109 to 113 refer to PG&E's Vegetation Management Reliability Program.

PO	PO Description	2024 Capital Additions	2025 Capital Additions
5529945	Veg Mgt Reliability-2021 Circuits	51,228	
5529946	Veg Mgt Reliability-2022 Circuits	1,612,865	
5529947	Veg Mgt Reliability-2023 Circuits	24,229,069	28,451,393
	Total	25,893,162	28,451,393

QUESTION CPUC-PGE-AU.109

Please identify any additional POs included in WP-9, Tab 4 that contain capital additions relating to PG&E's Vegetation Management Reliability Program.

ANSWER CPUC-PGE-AU.109

There are no additional POs included in WP-9, Tab 4 that contain capital additions relating to PG&E's Reliability Right-of-Way Expansion Program.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.110		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.110		
Request Date:	August 27, 2024	Response Date:	October 2, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Paula Conner/ Justin Napper

Questions 109 to 113 refer to PG&E's Vegetation Management Reliability Program.

PO	PO Description	2024 Capital Additions	2025 Capital Additions
5529945	Veg Mgt Reliability-2021 Circuits	51,228	
5529946	Veg Mgt Reliability-2022 Circuits	1,612,865	
5529947	Veg Mgt Reliability-2023 Circuits	24,229,069	28,451,393
	Total	25,893,162	28,451,393

QUESTION CPUC-PGE-AU.110

For the work to be performed under the above-listed Veg Mgt Reliability POs, please identify the location of the work, rights-of way miles worked/to be worked, and expected cost per mile.

ANSWER CPUC-PGE-AU.110

Please see FERC-TO21-IR-CPUC-PGE-03-AU.110_Atch01. Below is a table of the miles completed so far in 2024. The expected cost per mile reflects PG&E's plan cost per mile.

	Completed Work	Constrained	No Work Required	Work Required	Total	Expected Cost Per
LineName/Location	Mileage	Mileage	Mileage	Mileage	Mileage	Mile
FULTON-PUEBLO	1.21		1.48		2.69	\$ 300,000
CLEAR LAKE-KONOCTI	5.36	0.14	2.44		7.94	\$ 300,000
FORT ROSS-GUALALA	4.07		0.74		4.81	\$ 300,000

	Completed Work	Constrained	No Work Required	Work Required	Total	Expected Cost Per
LineName/Location	Mileage	Mileage	Mileage	Mileage	Mileage	Mile
GARBERVILLE-LAYTONVILLE	11.15		6.71	2.15	20.01	\$ 300,000
HUMBOLDT-MAPLE CREEK			0.29	1.94	2.23	\$ 300,000
HUMBOLDT-TRINITY			0.19	2.05	2.24	\$ 300,000
LAYTONVILLE-COVELO	5.66				5.66	\$ 300,000
LAYTONVILLE-WILLITS	2.10		0.63		2.74	\$ 300,000
MONTE RIO-FORT ROSS	0.37				0.37	\$ 300,000
BUTTE VALLEY-CARIBOU	2.78				2.78	\$ 300,000
CASCADE-BENTON-DESCHUTES	4.49	0.28	1.41		6.18	\$ 300,000
COTTONWOOD-BENTON #1	0.02				0.02	\$ 300,000
HAT CREEK #1-WESTWOOD	2.97				2.97	\$ 300,000
HUMBOLDT-TRINITY	2.45				2.45	\$ 300,000
KESWICK-TRINITY	3.03		0.05		3.08	\$ 300,000
PIT #1-COTTONWOOD	3.48				3.48	\$ 300,000
PIT #3-PIT #1	3.15				3.15	\$ 300,000
TRINITY-COTTONWOOD	1.18		0.03		1.21	\$ 300,000
TRINITY-MAPLE CREEK	1.97		0.01		1.98	\$ 300,000

	Completed Work	Constrained	No Work Required	Work Required	Total	Expected Cost Per
LineName/Location	Mileage	Mileage	Mileage	Mileage	Mileage	Mile
VALLEY SPRINGS #2	4.91		2.98		7.89	\$ 300,000

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.111		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.111		
Request Date:	August 27, 2024	Response Date:	September 20, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Paula Conner/ Justin Napper

Questions 109 to 113 refer to PG&E's Vegetation Management Reliability Program.

PO	PO Description	2024 Capital Additions	2025 Capital Additions
5529945	Veg Mgt Reliability-2021 Circuits	51,228	
5529946	Veg Mgt Reliability-2022 Circuits	1,612,865	
5529947	Veg Mgt Reliability-2023 Circuits	24,229,069	28,451,393
	Total	25,893,162	28,451,393

QUESTION CPUC-PGE-AU.111

Please:

- a. Explain if the amounts for the above-listed Veg Mgt Reliability POs and any other vegetation management POs identified in Question 109 are the entire cost of PG&E's vegetation management or if this is an allocated cost to the FERC portion of transmission.
- b. If it is an allocated portion, provide the entire cost of the vegetation management program by PO and by year.

ANSWER CPUC-PGE-AU.111

The amounts listed are the entire cost of PG&E's Reliability Right-of-Way Expansion Program for 2024/2025, which is part of previous responses and within the attached excel document.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.112		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.112		
Request Date:	August 27, 2024	Response Date:	September 20, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Paula Conner/ Justin Napper

Questions 109 to 113 refer to PG&E's Vegetation Management Reliability Program.

PO	PO Description	2024 Capital Additions	2025 Capital Additions
5529945	Veg Mgt Reliability-2021 Circuits	51,228	
5529946	Veg Mgt Reliability-2022 Circuits	1,612,865	
5529947	Veg Mgt Reliability-2023 Circuits	24,229,069	28,451,393
	Total	25,893,162	28,451,393

QUESTION CPUC-PGE-AU.112

To the extent PG&E's vegetation management reliability program costs represent an allocation, please provide PG&E's methodology for developing the allocation factors, including the year(s) in which the methodology was developed and the work upon which the allocation factor was based.

ANSWER CPUC-PGE-AU.112

Reliability Right-of-Way (ROW) Expansion Program costs are allocated between capital and expense. 95% of the costs are allocated to capital and 5% of the costs are allocated to expense.

When the program initially started in 2017, PG&E allocated 90% of the costs to capital and 10% of the costs to expense. PG&E updated its allocation methodology in 2022. PG&E selected a sample of 22 Reliability ROW Expansion Program projects and then reviewed each project to determine how much of the work performed was routine vegetation management (expense) and how much was related to the ROW expansion (capital). Based on the allocation study, PG&E determined that approximately 95% of the Reliability ROW Expansion Program costs were associated with expanding the ROWs (capital) and 5% of the costs were associated with routine vegetation management work (expense). PG&E has explained its methodology in detail in both data requests and responses to protests in the Annual Update process. Rather than repeat these data request and protest responses, PG&E refers the CPUC to *Pacific Gas and Electric Company*

Motion for Leave to Answer and Answer to Protests, filed January 19, 2023 in Docket No. ER19-13-000, pages 10-13.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.113		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.113		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

Questions 109 to 113 refer to PG&E's Vegetation Management Reliability Program.

PO	PO Description	2024 Capital Additions	2025 Capital Additions
5529945	Veg Mgt Reliability-2021 Circuits	51,228	
5529946	Veg Mgt Reliability-2022 Circuits	1,612,865	
5529947	Veg Mgt Reliability-2023 Circuits	24,229,069	28,451,393
	Total	25,893,162	28,451,393

QUESTION CPUC-PGE-AU.113

Please provide all of the FERC Accounts to which the these and any other vegetation management POs identified in Question 109 are recorded along with the details of the costs recorded by FERC Account.

ANSWER CPUC-PGE-AU.113

Refer to the below table:

Planning Order	FERC Plant Account	Total Recorded Plant Additions (as of 12/31/2023)
5529945	356 - Overhead conductors, devices	\$ 37,908,792
5529946	350 - Land and land rights	\$ 19,863
5529946	352.00 - Structures and improvement	\$ 4,405,247
5529946	356 - Overhead conductors, devices	\$ 40,435,146
5529947	356 - Overhead conductors, devices	\$ 51,165,938

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.114		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.114		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Michelle Sakamoto

QUESTION CPUC-PGE-AU.114

For PO 5531938, “70Y 2024 Planning and Construction”, 2024 and 2025 capital additions of “146,096,708” and 207,221,018”, respectively, are shown. Please:

- a. Provide a detailed work plan supporting these pole replacement activities in 2024 and 2025, including the location and age of the structure to be replaced, and the total cost and cost per unit.
- b. Provide support for the approximately \$50 million increase in the program’s budget from 2024 to 2025.

ANSWER CPUC-PGE-AU.114

- a. Please see CPUC-PGE-AU_114_Attachment 1 for the 2024 and 2025 workplan snapshot. The estimated unit cost for pole replacements is \$91k, and total spend in 2024 and 2025 is projected to be \$219M and \$170M.
- b. The forecast pull for Planning Order (PO) 5531938 was 3/11/24. This PO is solely a forecast placeholder. Thus, the forecast for January through March 2024 was zero since these dollars are not actualized in this PO. When comparing the monthly forecast from 2024 and annualizing it, the 2024 program budget is \$194,795,610. The increase in budget is only approximately \$12.5M. The snapshot from 3/11/24 assumed a higher forecast in 2025 due to an assumed 10% higher unit cost and additional units.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.115		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.115		
Request Date:	August 27, 2024	Response Date:	October 1, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Michelle Sakamoto

QUESTION CPUC-PGE-AU.115

For 70Y Pole Replacements, please provide the recorded cost for this activity by month for 2021, 2022, and 2023.

ANSWER CPUC-PGE-AU.115

	2021	2022	2023
Jan	\$12,453,644	\$10,879,485	\$5,175,024
Feb	\$9,781,211	\$15,876,969	\$17,844,116
Mar	\$16,383,845	\$14,476,389	\$16,197,869
Apr	\$11,029,525	\$27,647,094	\$25,950,456
May	\$19,568,891	\$28,796,889	\$35,957,253
Jun	\$35,290,581	\$19,503,967	\$39,958,478
July	\$13,988,175	\$21,502,147	\$23,978,479
Aug	\$19,197,171	\$18,370,524	\$29,703,026
Sep	\$18,709,978	\$21,440,136	\$19,907,360
Oct	\$20,705,870	\$27,187,500	\$32,883,346
Nov	\$16,270,675	\$13,057,897	\$13,205,080
Dec	\$20,332,181	\$17,920,198	\$27,092,540

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.116		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.116		
Request Date:	August 27, 2024	Response Date:	October 1, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Michelle Sakamoto

QUESTION CPUC-PGE-AU.116

For 70Y pole replacements performed in January and February 2024, please:

- a. Identify the POs for this work in WP-9, Tab 4.
- b. Provide the number of poles replaced under each PO.

ANSWER CPUC-PGE-AU.116

- a. The following POs from WP-9, Tab 4 are associated with 70Y pole replacements performed in January and February 2024:

5502913

5508619

5509219

5509220

5533586

b.

1. 5502913 - 65

2. 5508619 - 32

3. 5509219 - 143

4. 5509220 - 33

5. 5533586 - 14

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.117		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.117		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Michelle Sakamoto/ Lorenzo Thompson

QUESTION CPUC-PGE-AU.117

Please explain whether any of the poles to be replaced under PO 5531938 are non-CAISO jurisdictional. If there are such poles included, please identify the number of poles and average cost to replace each pole.

ANSWER CPUC-PGE-AU.117

Planning order 5531938 is a forecast placeholder and does not tie to specific units replaced (whether it be CAISO or non-CAISO jurisdictional). As structures are replaced, actual costs are recorded in other PO numbers. Unit cost for transmission wood pole replacement is approximately \$93k per pole.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.118		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.118		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Michelle Sakamoto

QUESTION CPUC-PGE-AU.118

For PO 5531938, “70Y 2024 Planning and Construction”, 2024 monthly capital additions are shown as “16,232,968”. In 2025, the monthly capital additions increase to “17,268,418”. Please explain the reason for this \$1,035,450 monthly cost increase.

ANSWER CPUC-PGE-AU.118

During the financial snapshot taken on 3/11/24, a higher forecast in 2025 was assumed due to a projected 10% higher pole replacement unit cost, as well as additional units. Note that more current financial snapshots indicate a decrease in overall pole replacement dollars, to an average of \$14.6k per month in 2025, due to prioritization of the overall portfolio and a resulting decrease in forecasted units.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.119		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.119		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

Questions 119 to 123 refer to numerous POs in WP-9, Tab 4, where PG&E has indicated in its response to TPR Data Request ED-001-Q027 that temporary power costs have been included in the capital orders.

QUESTION CPUC-PGE-AU.119

For POs 5804586, “Ignacio-Alto-Sausalito 115 kV 7/54 TRP” and 5804688, – “Ignacio-Alto-Sausalito 115 kV 13/94 TRP”, please provide the monthly temporary power costs included in this capital order since project inception. Please include whether the power was used on-site or to serve load.

ANSWER CPUC-PGE-AU.119

For Planning Order (PO) 5804586, “Ignacio-Alto-Sausalito 115 kV 7/54 TRP, it will utilize temporary generation in order to have a double circuit T-line clearance. This project will have the same clearance and will share the electric generation cost with PO 5797979, “Ignacio-Alto-Sausalito 4/37 & 4/38 B Tag.” The clearance and temporary generation are scheduled in November 2024. The latest estimate is between \$5.8M and \$6.5M (depending on actual fuel consumption and price fluctuation).

PO5804688, – “Ignacio-Alto-Sausalito 115 kV 13/94 TRP will not be utilizing temporary generation.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.120		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.120		
Request Date:	August 27, 2024	Response Date:	October 1, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

Questions 119 to 123 refer to numerous POs in WP-9, Tab 4, where PG&E has indicated in its response to TPR Data Request ED-001-Q027 that temporary power costs have been included in the capital orders.

QUESTION CPUC-PGE-AU.120

For PO 5797979, “Ignacio-Alto-Sausalito 4/37 & 4/38 B Tag”, please provide the monthly temporary power costs included in this capital order since project inception. Please include whether the power was used on-site or to serve load.

ANSWER CPUC-PGE-AU.120

Temporary power (generation) will not be needed until November 2024 and only for the month of November 2024. The estimated cost for the month of November is approximately \$6.5M and will be used to serve load to Alto substation.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.121		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.121		
Request Date:	August 27, 2024	Response Date:	October 2, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Trang Luu

Questions 119 to 123 refer to numerous POs in WP-9, Tab 4, where PG&E has indicated in its response to TPR Data Request ED-001-Q027 that temporary power costs have been included in the capital orders.

QUESTION CPUC-PGE-AU.121

For 5795286, “El Cerrito G: 115kV BAAH Bay 4”, please provide the monthly temporary power costs included in this capital order since project inception. Please include whether the power was used on-site or to serve load.

ANSWER CPUC-PGE-AU.121

PO 5795286 El Cerrito G: 115kV BAAH Bay 4: this PO has not accrued any cost for temporary power since project inception. Temporary generation on PO 5795286 is not needed at this time.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.122		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.122		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Maryam Norouzi

Questions 119 to 123 refer to numerous POs in WP-9, Tab 4, where PG&E has indicated in its response to TPR Data Request ED-001-Q027 that temporary power costs have been included in the capital orders.

QUESTION CPUC-PGE-AU.122

For 5781898, “Ignacio-Alto 60kV Twr Repl 13/114”, please provide the monthly temporary power costs included in this capital order since project inception. Please include whether the power was used on-site or to serve load.

ANSWER CPUC-PGE-AU.122

PO 5781898 Ignacio-Alto 60 kV Repl 13/114: \$5,722 was spent in January 2024 for temporary generation on 5781898. The temporary generation was used to serve customers to keep a traffic signal light in-service during the power outage on Ignacio-Alto to facilitate the tower replacement project.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.123		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.123		
Request Date:	August 27, 2024	Response Date:	October 2, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Michelle Sakamoto

Questions 119 to 123 refer to numerous POs in WP-9, Tab 4, where PG&E has indicated in its response to TPR Data Request ED-001-Q027 that temporary power costs have been included in the capital orders.

QUESTION CPUC-PGE-AU.123

For PO 5533593, “WSIP - Insulator Replacement – Steel”, please provide the monthly temporary power costs included in this capital order since project inception. Please include whether the power was used on-site or to serve load.

ANSWER CPUC-PGE-AU.123

The monthly temporary power cost is approximately \$102k on average. The power was used to serve load.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.124		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.124		
Request Date:	August 27, 2024	Response Date:	October 3, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka/ Scott Toback

QUESTION CPUC-PGE-AU.124

Please:

- a. Identify any POs included in PG&E’s WP-9, Tab 4 that have been placed “on hold” since PG&E submitted its RY2025 Draft Annual Update.
- b. Provide the now-expected “Operative Month” for each of the identified POs, to the extent the PO will become operative during 2024 or 2025.

ANSWER CPUC-PGE-AU.124

- a. Work Order 74037606 (Bright-Grand Island PH2 I-5 W Piling S) under Planning Order 5794779 is deferred as of July 2024.
- b. Work Order 74037606 has an updated planned operative date in December 2026.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.125		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.125		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Rico Garcillano

Questions 125 to 130 refer to PO 5797502 -- SF RAS Descoping Project and PO 5795881 -- Decommissioning RAS SFGO.

QUESTION CPUC-PGE-AU.125

For PO 5797502, “SF RAS Descoping Project”, PG&E’s June 2024 TPR Data Spreadsheet indicates in Field 47 “Project Status” that the project is “On Hold”. Field 51 “Current Projected or Actual In-Service Date” is “2025-10-28”. Please provide the date this project was placed on hold and whether PG&E still expects to achieve the October 2025 in-service date.

ANSWER CPUC-PGE-AU.125

For PO 5797502, “SF RAS Descoping Project” was officially placed in deferral status in June 2023. PG&E does not expect to achieve the October 2025 in-service date due to delays with the SFGO RAS Lifecycle and Relocation Project - Phase 1 and the dependency and resource constraint on a critical group – RAS Operations.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.126		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.126		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Rico Garcillano

Questions 125 to 130 refer to PO 5797502 -- SF RAS Descoping Project and PO 5795881 -- Decommissioning RAS SFGO.

QUESTION CPUC-PGE-AU.126

For PO 5797502, “SF RAS Descoping Project”, PG&E’s June 2024 TPR Data Spreadsheet indicates “Project Design” in Field 52 “Reason for Change in In-service Date”. Please explain the “project design” issues that delayed this project’s completion. Please also address whether PG&E’s prioritization initiatives have also affected the project’s completion timeline and, if so, please explain how this project was assessed and provide the project ranking.

ANSWER CPUC-PGE-AU.126

After securing support from the CAISO, PG&E reduced the events in which SF RAS would operate which required the team to re-create the test forms/test cases/etc. aligned with the new scenarios. This led to the initial In-Service Date delay prior to the project deferral mainly due to a resource constraint (RAS Operations) with the implementation of this project overlapping with the SFGO RAS Lifecycle and Relocation Project - Phase 1. Between the two projects, the SFGO RAS Lifecycle and Relocation Project - Phase 1 has higher priority due to its overall impact to the reliability of the BES and the ability to import power from the Pacific Northwest.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.127		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.127		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Rico Garcillano

Questions 125 to 130 refer to PO 5797502 -- SF RAS Descoping Project and PO 5795881 -- Decommissioning RAS SFGO.

QUESTION CPUC-PGE-AU.127

For PO 5797502, “SF RAS Descoping Project”, please describe in detail the scope of work completed to date, as well as the remaining scope of work required to complete the project.

ANSWER CPUC-PGE-AU.127

All protection and telecommunications hardware for SF RAS to operate was installed prior to the project’s deferral. The outstanding scope not completed was the reprogramming and testing of the controller and functional testing of SF RAS, as the project team was still developing the test cases.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.128		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.128		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Rico Garcillano

Questions 125 to 130 refer to PO 5797502 -- SF RAS Descoping Project and PO 5795881 -- Decommissioning RAS SFGO.

QUESTION CPUC-PGE-AU.128

For PO 5797502, “SF RAS Descoping Project”, please provide a detailed assessment, including workpapers, of the project’s anticipated costs and how they have changed from PG&E’s initial estimate. Please include any additional operating costs incurred because of the project’s delay.

ANSWER CPUC-PGE-AU.128

Initial project otherization: \$0.9M (July 2021)

Current project authorization: \$3.2M (January 2023)

The main driver between the initial project authorization and the current authorization were driven by increased time to complete non-deterministic testing of the controller, upgrades to the hardware beyond initial estimates, and an allowance for contingency.

Project costs to date: \$2.3M

Remaining forecast: \$1.1M

The remaining forecast was estimated on the remaining test case creation, function testing, and final implementation of SF RAS. However, the Scenarios will need to be re-evaluated as San Francisco and the Peninsula will have had operations upgrades that affect SF RAS, and the remaining forecast will need to be increased.

Please refer to FERC-TO21_IR_CPUC-PGE_03-AU.128_Atch01 for the Business Case and FERC-TO21_IR_CPUC-PGE_03-AU.128_Atch02 Business Case Reauthorization.

ATTACHMENTS

FERC-TO21_IR_CPUC-PGE_03-AU.128_Atch01.docx

FERC-TO21_IR_CPUC-PGE_03-AU.128_Atch02.docx

Business Case

Project Name: SF RAS Descoping Project	Line of Business: Transmission Operations																
Executive Sponsor: Wade Smith	Business Owner: Stephanie Carstairs																
Program Manager: Rico Garcillano	Project Manager: Sutton Smiley																
Department: RAS Ops	Division/Area: Multiple																
Start Date: 07/01/2021	Completion Date: 3/31/2022																
Approval Gate: 1 of 1	WBS or Order#: T.0007421																
<p>Project Team Members: RAS Operations: Lyle Dixson, Kimberly Castro, Enes Muftic, Thu Duong, Sherrick Slattery, Dennis Dillon, Rico Garcillano System Protection: Rafael Pineda Substation Engineering: TBD Telecom: Adam Fowler Transmission Ops: Joanna Chong Project Management: Sutton Smiley, Huiling Han Construction: Ray Handyside, Eric Burke, Brian Stansbury Test: Mike Ruiz</p>																	
<p>Action Recommended: Business Applications - RAS Operations recommends that the Interim Vice President of Transmission Operations approve an expenditure of \$1.3 million, which includes \$0.4 million or 30% in contingency, to descope the SF RAS controller logic due to a reduction of outages the scheme will protect against. This descoping effort was reviewed and approved by multiple internal stakeholders as well the CAISO.</p> <p align="center">Project Cost Summary (x1000)</p> <table border="1"> <thead> <tr> <th>Costs</th> <th>Project Authorization</th> </tr> </thead> <tbody> <tr> <td>Base Estimate</td> <td>\$630</td> </tr> <tr> <td>Risk Allowance</td> <td>\$270</td> </tr> <tr> <td>Expected Case</td> <td>\$900</td> </tr> <tr> <td>Risk Contingency</td> <td>\$100</td> </tr> <tr> <td>Class Contingency</td> <td>\$301</td> </tr> <tr> <td>Total Contingency</td> <td>\$401</td> </tr> <tr> <td>High Case Estimate</td> <td>\$1,301</td> </tr> </tbody> </table>		Costs	Project Authorization	Base Estimate	\$630	Risk Allowance	\$270	Expected Case	\$900	Risk Contingency	\$100	Class Contingency	\$301	Total Contingency	\$401	High Case Estimate	\$1,301
Costs	Project Authorization																
Base Estimate	\$630																
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Expected Case	\$900																
Risk Contingency	\$100																
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Total Contingency	\$401																
High Case Estimate	\$1,301																

A) Project Objective Statement

De-scope the San Francisco Remedial Action Scheme System (SF RAS) by December 2021 for less than \$1.3 million.

Internal

B) Strategic Objective

Simplify SF RAS by limiting the monitored events to only extreme events identified in the Transmission Planning Reliability (TPL) standards and supported by California Independent System Operator (CAISO) planning coordinator.

C) Background

Electric load in San Francisco and northern San Mateo County is served from the south by numerous 230kV, 115kV, and 60kV transmission lines supplied from San Mateo Substation and the Jefferson-Martin 230kV underground line.

Extreme contingencies such as the 1989 Loma Prieta earthquake and the December 8, 1998 San Francisco outage originating from San Mateo could cause a partial or complete loss of generation and transmission. These scenarios could lead to a complete blackout of the area if no special protection systems are deployed to limit the extent of the outage. The SF RAS system was installed to provide additional protection to the electric grid and to customers during these extreme outages.

Since the December 8, 1998 Event, PG&E has made and continues to make significant system upgrades to the transmission system along the SF Peninsula. These projects include, but are not limited to capacity increase jobs such as the Jefferson-Martin cable, the AP-1, the HP-4, and most recently the ZA-1 as well as bus reliability jobs such as the BAAH conversions at Martin Sub., Mission Sub., San Mateo Sub. and Embarcadero Sub. Given these system upgrades coupled with the fact that SF RAS is not required to meet any NERC reliability requirements, an effort to either retire or descope SF RAS was presented to the CAISO. While a full retirement of the scheme was not supported by the CAISO, a descoping effort to minimize the outage scenarios that the scheme will protect against down to 8 extreme events that be tied back to the NERC TPL standard (note: TPL extreme events must be studied, but are optional to mitigate).

D) Scope

Review and revise key events/significant scenarios based off of CAISO recommendations. Re-program controller based on events.

Updating scheme due to the following completed projects:

- Embarcadero – Potrero
- East Grand
- Hunters Point distribution changes

Upgrade IT communication equipment as needed to support project.

This project excludes the de-commissioning of SF RAS A. This scope will be covered under the RAS relocation project (74035421).

E) Success Criteria

Zero injuries, zero reliability issues (inadvertent trip signals) and zero environmental notice of violation during construction

Project released to operations by December 31, 2021 and closed out by March 31, 2022

Scheme released to operations successfully

Updated Description of Operations (DOO) approved prior to release for service

Completion of the project within authorized financial cost

Complete recovery of project cost through FERC

Internal

F) Project Implementation Plan

Description of the Phases and Key Milestones/Deliverables	Actual/Forecast Completion Date
Project Kickoff	8/1/2021
Project Walkdown	8/15/2021
Scope Approved	8/31/2021
JE Approved	10/1/2021
Engineering Start	9/1/2021
Engineering End	10/31/2021
Construction Start	11/1/2021
Construction End	12/31/2021
Forecast In-Service Date (FISD)	12/31/2021
Project Closed	3/31/2022

G) Regulatory Cost Recovery and Treatment

The project costs are expected to be included in the PG&E’s base utility revenue requirement when it becomes operational in 2021. The Company expects to recover these costs through its Federal Energy Regulatory Commission Transmission Owner’s (TO) Rate Case, and to earn the authorized return on equity established in that proceeding.

H) Funding Status

This project is funded by Major Work Category 63, Electric Transmission System Operations. Approximately \$0.76 million has been allocated in the 2021 budget for the Embarcadero – Potrero orders 74015908 & 74016063. This budget will be transferred to order 5797502.

I) Project Forecast (\$000s)

Project Costs (\$000s)	Prior Year Costs	2021	2022	2023	Future Year(s)	Total
Base Estimate	\$ -	\$ 630	\$ -	\$ -	\$ -	\$ 630
Contingency	\$ -	\$ 270	\$ -	\$ -	\$ -	\$ 270
Total Authorized Expected Case	\$ -	\$ 900	\$ -	\$ -	\$ -	\$ 900
Total High Case (for information only)	\$ 1,300					

Cost Assumptions:

AFUDC, material burden, A&G overhead and costs escalation factors are based on current PG&E Capital Accounting Guidelines
 Project released to operations by December 2021

J) Cost History Explanation

The SF RAS scope that was funded by the Embarcadero – Potrero (ZA-1) project has evolved to the point that the ZA-1 project is no longer the appropriate funding source for this scope. Transmission Planning and RAS Operations

Internal

agreed that the ZA-1 project will bear the costs from project inception until 12/31/2020, and all costs from 1/1/2021 onwards will be borne by this SF RAS de-scoping project.

Year-to-date actuals are \$300k against the Embarcadero – Potrero (ZA-1) project that will be transferred to this de-scope order number (5797502). This includes IT re-engagement for verification of equipment prior to scheme functional testing, troubleshooting of equipment, re-studying key events, and re-programming control logic.

K) Financial Benefits (\$000s)

Financial Benefits Assumptions:
 This project is not expected to produce any hard financial benefits.

Soft benefits include:

- Easier to define SF RAS scope (i.e. basecases, event detection, etc.) resulting in simpler scheme modifications that can be more readily identified for future projects
- More efficient maintenance/troubleshooting of RAS controller logic
- A significant reduction in outage event detection will simplify future planning and operational studies

L) Issues and Risks

Risk Description	Probability of Occurrence (H, M, L)	Impact on Scope and Schedule	Impact on Cost	Mitigation Strategy / Contingency Plan
Re-assignment of key resources	L	M	\$30k in AFUDC (3 month delay)	Mitigation: Confirm availability with resource supervisors to support project. Contingency: Escalate resource conflicts with Leadership to align prioritization.
Full Functional Testing is delayed	H	M	\$30k in AFUDC (3 month delay)	Mitigation: Engage team members to ensure full participation in preparation of testing Contingency: Work with Leadership to prioritize resources to re-schedule testing. Worst case re-schedule functional test.
Telecom dependencies delay	H	M	\$40k	Mitigation: Hold bi-weekly team meetings to monitor progress and communicate deadlines

Internal

				Contingency: Authorize overtime or accelerated material procurement; seek reassignment of telecom resources
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M) Flexibility Matrix

	Least Flexible	Moderately Flexible	Most Flexible	Comments
Schedule			X	Project schedule is the most flexible and will adapt to resource availability.
Scope	X			Key events for SF RAS are still being finalized with CAISO, once approved there will be little room for variance to the Scheme.
Resources		X		Reassignment of most resources will cause a schedule delay, but will not generally jeopardize project success. RAS Ops engineers have significant other capital project workload during the descoping.

N) Impacted Metrics

The completion of this project allows for a smaller and simpler scheme to maintain and update, leading to more cost effective maintenance over the long run.

O) Environmental Impact

No significant environmental impact is anticipated. The new equipment will be located within existing control center computer rooms and at substation control rooms.

P) Approval Plan

Approval/Gate/Reauthorization	Date	Approved or Forecast (\$000s)	AACE Class	Forecast at Completion (\$000s)	Approval/Gate Description Reason for Reauthorization Reason for Increase to Total Cost
1) Full Authorization	8/31/2021	1,300	3	800	Full Authorization for total project spend. The project progress has matured significantly under previous project (Embarcadero – Potrero), full project funding is requested to take project into functional testing and completion.

Q) Additional Information

The RC West reliability review and approval of the changes to the key events is scheduled for 7/27/21, which will be the formal approval for the changes funded by this Business Case.
Embarcadero – Potrero project has been supporting the SF RAS changes from 2013 until the present date. SF RAS has evolved due to other projects affecting the San Francisco & Peninsula load flow, the project

Internal

team has determined that Embarcadero – Potrero is no longer the appropriate funding source for the RAS changes. As a result, this project has been created to fund the remaining changes and the de-scope efforts. All costs from 1/1/21 onwards will be transferred from Embarcadero – Potrero to the de-scope project. The de-scope project assumes that SF RAS A will be decommissioned as part of a separate project (74035421) and the de-scope project (T.0007421) will be re-purposing material from SFCC for VGCC.

R) Line of Business Specific

N/A

Internal

Business Case Reauthorization – Non-Major Projects

Project Name: SF RAS Descoping Project	Line of Business: Transmission Operations
Executive Sponsor: Janisse Quinones	Business Owner: Stephanie Carstairs
Program Manager: Rico Garcillano	Project Manager: Sutton Smiley
Department: RAS Operations	Division/Area: Multiple
Start Date: 07/01/2021	Completion/Closeout Date: 6/9/2026
Release to Operations Date: 11/25/2025	Primary Region: Multiple
Approval Gate: 2 of 2	WBS or Order#: T.0007421

Project Team Members:

RAS Operations: Lyle Dixon, Kimberly Castro, Enes Muftic, Thu Duong. Sherrick Slattery, Dennis Dillon, Rico Garcillano
 System Protection: Rafael Pineda
 Substation Engineering: Nam Trinh
 Telecom: Adam Fowler
 Transmission Ops: Joanna Chong
 Project Management: Sutton Smiley, Fatemeh Keneshlou
 Construction: Ray Handyside, Eric Burke, Brian Stansbury
 Test: Mike Ruiz, Gary Henry

Action Recommended:
 Business Applications - RAS Operations recommends that Vice President of Transmission Operations approve an additional expenditure of \$1.4 million for a revised total project cost of \$3.2 million, to continue to descoped the SF RAS controller logic due to a reduction of outages the scheme will protect against.

This project was previously authorized by Sr. Director of Transmission System Operations for 2.0 million on 08/02/2022 and has incurred \$1.8 million actual cost to date.

Project Cost Summary (x1000)

Costs	Project Re-Authorization
Base Estimate	\$2,957
Risk Allowance	\$240
Expected Case	\$3,197
Risk Contingency	\$60
Class Contingency	\$146
Total Contingency	\$206
High Case Estimate	\$3,403

A) Reauthorization

Previously Authorized Amount	Total Cost Increase from Driver(s)	Reauthorization Amount Requested
\$2,009	\$1,395	\$3,403

Actual Cost to Date	Open Committed Items	Actual Cost to Date Plus Open Committed Items
\$1,800	\$6	\$1,806

The primary drivers for the additional funding are the non-deterministic testing of the RAS controller taking significantly more time and resources than planned and to allow of any re-work to modify the test cases after the two-year deferral. The specific reason(s) for requesting additional funding are as follows.

Specific Driver	Driver Category	Reason	Cost Increase
Longer time than expected to complete non-deterministic testing of the controller	Schedule	Previous project authorization assumed the non-deterministic tests would be completed within 2 months of starting, however additional time was needed for the test, revisions of test forms by OE were required. Because of the re-work and additional work required for the non-deterministic tests, more labor has been forecasted to support the testing the Scenario Test Forms.	\$636,000
Risk Allowance	Cost	The project will be deferred for at least 24 months, during this period no cost is expected to be charged against the project, however the load flow in San Francisco is expected to change. As a result the test cases will need to be evaluated to determine how much re-work would be needed (if any). The project is planning for 6 months of re-work to prepare new test cases.	\$530,000
Test/IT Support for hardware.	Cost	There were a few circuits that were not functioning and required troubleshooting from IT/Test technicians to resolved. Additional there were a few requests from OE to make the hardware match the proposed test cases for various scenarios that required support from Test and GC construction.	\$228,000
Total			\$1,394,000

B) Request to Add Contingency

Additional Requested Amount	Total Reauthorized Amount
\$1.4M	\$3.4M

Approval Date	Document Routing Request #	Reason(s) for Contingency Release	Amount Released
1/18/2023	Unifier: CR-0001	Funds needed for IT and RAS Ops Labor and additional scope at San Mateo and Martin substations	\$0.4M
08/02/2022	ICR: 35198	Funds needed for IT and RAS Ops Labor	\$0.3M
4/5/2022	ICR: 33629	Added scope of work at Martin substation	\$0.4M
8/23/2021	EDRS: 2021-48854	Business Case – initial project funding	\$0.9M

C) Reauthorization Lessons Learned

Lesson(s) Learned	Actions Taken
1. Allocate more time to controller logic testing and test case creation in the project authorization and baseline schedules, while driving towards an aggressive date.	The project forecast has increased its labor to adjust based on actuals charged against the project, and incorporated team feedback on the remaining activities for the schedule to ensure adequate authorization.

D) Project Objective Statement

De-scope the San Francisco Remedial Action Scheme System (SF RAS) by June 2023 for less than \$3.17 million.

E) Strategic Objective

Simplify SF RAS by limiting the monitored events to only extreme events identified in the Transmission Planning Reliability (TPL) standards and supported by California Independent System Operator (CAISO) planning coordinator.

F) Background

Electric load in San Francisco and northern San Mateo County is served from the south by numerous 230kV, 115kV, and 60kV transmission lines supplied from San Mateo Substation and the Jefferson-Martin 230kV underground line.

Extreme contingencies such as the 1989 Loma Prieta earthquake and the December 8, 1998 San Francisco outage originating from San Mateo could cause a partial or complete loss of generation and transmission. These scenarios could lead to a complete blackout of the area if no special protection systems are deployed to limit the extent of the outage. The SF RAS system was installed to provide additional protection to the electric grid and to customers during these extreme outages.

Since the December 8, 1998 Event, PG&E has made and continues to make significant system upgrades to the transmission system along the SF Peninsula. These projects include, but are not limited to capacity increase jobs such as the Jefferson-Martin cable, the AP-1, the HP-4, and most recently the ZA-1 as well as bus reliability jobs such as the BAAH conversions at Martin Sub., Mission Sub., San Mateo Sub. and Embarcadero Sub. Given these system upgrades coupled with the fact that SF RAS is not required to meet any NERC reliability requirements, an effort to either retire or descope SF RAS was presented to the CAISO. While a full retirement of the scheme was not supported by the CAISO, a descope effort to minimize the outage scenarios that the scheme will protect against down to 8 extreme events that be tied back to the NERC TPL standard (note: TPL extreme events must be studied, but are optional to mitigate).

G) Scope

Review and revise key events/significant scenarios based off of CAISO recommendations. Re-program controller based on events.

Updating scheme due to the following completed projects:

- Embarcadero – Potrero
- East Grand
- Hunters Point distribution changes

Upgrade IT communication equipment as needed to support project.

This project excludes the de-commissioning of SF RAS A. This scope will be covered under the RAS relocation project (74035421).

H) Success Criteria

Zero injuries, zero reliability issues (inadvertent trip signals) and zero environmental notice of violation during construction
 Project released to operations by November 25, 2025 and closed out by June 9, 2026
 Scheme released to operations successfully
 Updated Description of Operations (DOO) approved prior to release for service
 Completion of the project within authorized financial cost
 Complete recovery of project cost through FERC

I) Project Implementation Plan

Description of the Phases and Key Milestones/Deliverables	Actual/Forecast Completion Date
Project Kickoff	8/1/2021 (A)
Project Walkdown	5/2/2022 (A)
Construction Start	9/1/2021(A)
Engineering Start	1/11/2022 (A)
Scope Approved	3/6/2023
JE Approved	3/6/2023
Engineering End	3/7/2023
Construction End	10/28/25
Forecast In-Service Date (FISD)	11/25/2025
Project Closed	6/9/2026

J) Regulatory Cost Recovery and Treatment

The project costs are expected to be included in the PG&E’s base utility revenue requirement when it becomes operational in 2025. The Company expects to recover these costs through its Federal Energy Regulatory Commission Transmission Owner’s (TO) Rate Case, and to earn the authorized return on equity established in that proceeding.

K) Funding Status

This project is funded by Major Work Category 63, Electric Transmission System Operations. The year 2023 does not have sufficient funding and the project will be deferred until 2025.

L) Project Forecast (\$000s)

Project Costs (\$000s)	Prior Year Costs	2023	2024	2025	Total
Base Estimate	\$ 1,799	\$ 488	\$ 0	\$ 461	\$ \$2,748
Contingency	\$ -	\$ 0	\$ 0	\$ 240	\$ 240
Total Authorized Expected Case	\$ 1,799	\$ 488	\$ 0	\$ 701	\$ 2,988
Total High Case <i>(for information only)</i>	\$ 3,173				

Cost Assumptions:
 AFUDC, material burden, A&G overhead and costs escalation factors are based on current PG&E Capital Accounting Guidelines.
 Project team has manually removed \$300k from the forecast to account for the project deferral of 24 months, in which time no AFUDCs will be accrued.
 Project released to operations by November 2025

M) Issues and Risks

Risk Description	Probability of Occurrence (H, M, L)	Impact on Scope and Schedule	Impact on Cost	Mitigation Strategy / Contingency Plan
Unknown Risk Allowance to Avoid Contingency Release	H	L	\$300k	<p>Mitigation: Execute project towards the best case scenario to avoid requiring additional risk allowance.</p> <p>Contingency: To use the funds to address unknown risks to avoid stoppage in work to release contingency.</p>

N) Flexibility Matrix

	Least Flexible	Moderately Flexible	Most Flexible	Comments
Schedule			X	Project schedule is the most flexible and will adapt to resource availability.
Scope	X			Key events for SF RAS are still being finalized with CAISO, once approved there will be little room for variance to the Scheme.
Resources		X		Reassignment of most resources will cause a schedule delay, but will not generally jeopardize project success. RAS Ops engineers have significant other capital project workload during the descoping.

O) Impacted Metrics

The completion of this project allows for a smaller and simpler scheme to maintain and update, leading to more cost effective maintenance over the long run.

P) Environmental Impact

No significant environmental impact is anticipated. The new equipment will be located within existing control center computer rooms and at substation control rooms.

Q) Additional Information

Embarcadero – Potrero project has been supporting the SF RAS changes from 2013 until the present date. SF RAS has evolved due to other projects affecting the San Francisco & Peninsula load flow, the project team has determined that Embarcadero – Potrero is no longer the appropriate funding source for the RAS changes. As a result, this project has been created to fund the remaining changes and the de-scope efforts. All costs from 1/1/21 onwards will be transferred from Embarcadero – Potrero to the de-scope project.

The de-scope project assumes that SF RAS A will be decommissioned as part of a separate project (74035421) and the de-scope project (T.0007421) will be re-purposing material from SFCC for VGCC.

R) Line of Business Specific

N/A

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.129		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.129		
Request Date:	August 27, 2024	Response Date:	September 23, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Rico Garcillano

Questions 125 to 130 refer to PO 5797502 -- SF RAS Descoping Project and PO 5795881 -- Decommissioning RAS SFGO.

QUESTION CPUC-PGE-AU.129

For PO 5795881, “Decommissioning RAS SFGO”, please confirm this project was completed in “Operative Month” “Jul-24”.

ANSWER CPUC-PGE-AU.129

PO 5795881, “Decommissioning RAS SFGO” was completed on 6/31/24 and we are currently performing the project close out activities.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.130		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.130		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

Questions 125 to 130 refer to PO 5797502 -- SF RAS Descoping Project and PO 5795881 -- Decommissioning RAS SFGO.

QUESTION CPUC-PGE-AU.130

For PO 5795881, “Decommissioning RAS SFGO”, please explain the treatment of “decommissioning” costs as new capital additions.

ANSWER CPUC-PGE-AU.130

Planning Order 5795881 includes work for the implementation of Remedial Action Scheme (RAS) assets at a new site that is not at the San Francisco General Office. Since assets will be placed into service, the treatment of capital additions has been applied.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.131		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.131		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

Questions 131 to 135 refer to Draft WP_9-PlantAdditions_TO_RY2025, tab “4” regarding For POs 5547633, “2022 Cathodic Protection Installs” and 5542903, “Tower Cathodic Protection-Mitigation”.

QUESTION CPUC-PGE-AU.131

Please provide the list of all structures that PG&E inspected or expects to inspect for Cathodic Protection in 2022, 2023, 2024, and 2025. In that list, please:

- a. Provide the age of each tower, the date cathodic protection was installed (or, if cathodic protection is not needed, indicate “No CP installed”), associated transmission line and voltage, location, and structure number.
- b. Indicate the PO number associated with the cathodic protection of each structure.
- c. Indicate which towers PG&E inspected and determined should receive Cathodic Protection, but on which CP has yet to be installed.

ANSWER CPUC-PGE-AU.131

- a. Refer to PG&E’s response CPUC-PGE-AU.186 for 2022 and 2023 data. PG&E understands the term “inspected” to mean Field Investigations. For 2024, any field investigations completed that resulted in CP needed have not yet been installed.
- b. Planning Order 5547633 Cathodic Protection Installs
- c. For 2024 data please see FERC-TO21-IR-CPUC-PGE-03-AU.131_Atch01.xls

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.132		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.132		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

Questions 131 to 135 refer to Draft WP_9-PlantAdditions_TO_RY2025, tab “4” regarding For POs 5547633, “2022 Cathodic Protection Installs” and 5542903, “Tower Cathodic Protection-Mitigation”.

QUESTION CPUC-PGE-AU.132

During the TO21 RY2025 Annual Update Technical Conference call on July 15, 2024, PG&E indicated at p. 17 of the slide deck that in 2023, 513 inspections were performed and 390 units installed, and in 2024, 337 inspections were performed and 221 units installed (to date). Please explain the ratemaking treatment for the costs of the field inspections, considering the delay between the field inspections and installations, including whether any of these costs are being added to ratebase prior to the installation of the cathodic protection device.

ANSWER CPUC-PGE-AU.132

PG&E’s ratemaking treatment of inspection costs related to the Cathodic Protection program was described in detail in PG&E’s *Motion for Leave to Answer and Answer to Protests* filed on January 19, 2023 in Docket No. ER19-13-000, et al. on pages 17-23.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.133		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.133		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

Questions 131 to 135 refer to Draft WP_9-PlantAdditions_TO_RY2025, tab “4” regarding For POs 5547633, “2022 Cathodic Protection Installs” and 5542903, “Tower Cathodic Protection-Mitigation”.

QUESTION CPUC-PGE-AU.133

Please provide:

- a) The total number of field inspections conducted to date.
- b) The total number of CP installations performed and scheduled to date.
- c) The total number of field inspections conducted in 2024 and expected to occur in 2025.
- d) The total number of CP installations performed in 2024 and scheduled in 2025.

ANSWER CPUC-PGE-AU.133

- a. PG&E understands the term “Field Inspection” to mean Field Investigations. 2425 field investigations conducted to date (2021-2024 July YTD)
- b. 1275 CP installations completed to date (for 2024 data is only till 7/31/2024)
- c. PG&E understands the term “Field Inspection” to mean Field Investigations. 2025 Workplans are still under development in the investment planning process. 434 field investigations conducted (2024 July YTD)
- d. 2024 July YTD 299 CP installations. 2025 Workplans are still under development in the investment planning process.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.134		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.134		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

Questions 131 to 135 refer to Draft WP_9-PlantAdditions_TO_RY2025, tab “4” regarding For POs 5547633, “2022 Cathodic Protection Installs” and 5542903, “Tower Cathodic Protection-Mitigation”.

QUESTION CPUC-PGE-AU.134

Cathodic Protection Program POs 5547633 and 5542903 include activities to improve cathodic protection, install cathodic protection, and for tower cathodic protection. For all towers treated under these activities:

- a. Please provide the date on which cathodic protection was installed on each tower.
- b. Please explain the system used to provide ratings of corrosion on towers and, if the system differs from that used in RY2023, explain how.
- c. Please provide the level of corrosion identified during cathodic protection program inspection.
- d. Please provide all of the FERC Accounts to which these costs are recorded, including the depreciable life for capitalized assets booked to the FERC Accounts and details of the costs recorded.

ANSWER CPUC-PGE-AU.134

- a. For 2024 data, see FERC-TO21_IR_CPUC-PGE_03-AU.134_Atch01.xls
- b. No changes to system used to provide ratings since RY2023
- c. Please refer to PG&E's response to a similar question from the CPUC in the Transmission Project Review Process identified as TPR-Process_DR_ED_001-Q030 provided on July 17, 2024.
- d. Refer to PG&E’s response to FERC-TO21-IR-CPUC-PGE-03-AU.135, and the table below for average service life information.

FERC Plant Account	Asset Class	TO20 Asset Class Average Service Lives
352.00 - Structures and improvement	ETP35201	70
352.00 - Structures and improvement	ETP35202	70
354 - Towers and fixtures	ETP35400	75
355 - Poles and fixtures	ETP35500	54
356 - Overhead conductors, devices	ETP35600	65

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.135		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.135		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Nikki Apura/ George Kataoka

Questions 131 to 135 refer to Draft WP_9-PlantAdditions_TO_RY2025, tab “4” regarding For POs 5547633, “2022 Cathodic Protection Installs” and 5542903, “Tower Cathodic Protection-Mitigation”.

QUESTION CPUC-PGE-AU.135

Please provide an update with the total costs associated with POs 5547633 and 5542903, respectively, and the FERC accounts these costs are recorded to.

ANSWER CPUC-PGE-AU.135

For recorded plant additions for PO 5547633, refer to PG&E’s response to FERC-TO21-IR-CPUC-PGE-03-AU.136.

As of December 31, 2023, there are no recorded plant additions for PO 5542903.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.136		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.136		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones/ George Kataoka

QUESTION CPUC-PGE-AU.136

Please provide an update with the total costs associated with the Transmission Tower Maintenance Program (aka Tower Coating Program) in RY2025 and the associated FERC accounting treatment(s).

ANSWER CPUC-PGE-AU.136

Refer to PG&E's response to the TO21-RY2024 data request FERC-TO21-DR-CPUC-PGE-DEP-08-42_Atch02. This same response is attached here as FERC-TO21-IR-CPUC-PGE-03-AU.136_Atch01.

**PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response**

PG&E Information Request No.:	CPUC-PGE-AU.137		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.137		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	George Kataoka

QUESTION CPUC-PGE-AU.137

POs 5542459 and 5549743 refer to “Corrosion Control MWC 93” and “Tower Coating Program Capital” activities, respectively. Please provide the total costs associated with the Transmission Tower Maintenance Program that were capitalized or are expected to be capitalized in RY2025. If costs are to be capitalized, please provide the FERC Account these costs are recorded to.

ANSWER CPUC-PGE-AU.137

Refer to PG&E’s response to FERC-TO21-IR-CPUC-PGE-03-AU.136.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.138		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.138		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

QUESTION CPUC-PGE-AU.138

On slide 5 of the September 11, 2023 Technical Conference PowerPoint PG&E states that if a tower is “56 years and older, has not been previously coated under Corrosion Control Program, and scope is for the full tower, then project can be capitalized[.] Towers not meeting above criteria are treated as expense[.] Because the age of some towers is unknown, PG&E has applied an allocation percentage to Tower Coating Program costs.”

- a. Please confirm if the above statement still holds true in RY2025.
- b. Please provide an update on the allocation percentage PG&E plans to use for towers with an unknown age. Please describe how PG&E developed this allocation percentage, when PG&E developed and implemented this allocation percentage and provide documentation supporting this accounting treatment.
- c. Please provide the number of towers to which PG&E is applying this allocation percentage in RY2025.

ANSWER CPUC-PGE-AU.138

- a. Yes
- b. Please see PG&E’s response to IR-TANC-PGE-2.1 for the Rate Year 2024 Annual Update; TPR-process-DR-ED-001-Q029 in the Transmission Project Review (TPR) Process; and IR-CPUC-PGE-187 for the Rate Year 2024 Annual Update.
- c. 2025 Workplans are still under development in the investment planning process.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.139		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.139		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

QUESTION CPUC-PGE-AU.139

Please provide a copy of PG&E's most recent Tower Coating Field Guide.

ANSWER CPUC-PGE-AU.139

Please refer to PG&E's response to TPR Process_DR_ED_003-005(b) in the Transmission Project Review (TPR) Process.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.140		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.140		
Request Date:	August 27, 2024	Response Date:	September 11, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

QUESTION CPUC-PGE-AU.140

Please provide the unit cost (i.e., per tower) of all inspections or assessments associated with PO 5549743 Tower Coating Program Capital incurred to date for 2024.

ANSWER CPUC-PGE-AU.140

Please refer to PG&E's response to TPR-Process_DR_ED_001-Q029(m) in the Transmission Project Review Process.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.141		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.141		
Request Date:	August 27, 2024	Response Date:	September 13, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

QUESTION CPUC-PGE-AU.141

Please provide the total cost of inspections or assessment performed under PO 5549743 for 2024.

ANSWER CPUC-PGE-AU.141

PG&E understands the “inspections or assessments” to be the initial inspection of a tower. Inspection and assessment costs are not included in Planning Order 5549743.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.142		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.142		
Request Date:	August 27, 2024	Response Date:	September 13, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Mike Briones

QUESTION CPUC-PGE-AU.142

Please provide a list of all towers inspected in 2024 and determined not to need tower coating.

ANSWER CPUC-PGE-AU.142

PG&E objects to this request to the extent that it requests that PG&E identify “all of the towers inspected in 2024 . . .” PG&E inspects tens of thousands of transmission towers each year and providing a list of every single tower inspected would be burdensome and is not relevant to the issues in the Rate Year 2025 Annual Update.

Subject to and without waiving this objection, PG&E is providing an overview of its transmission tower inspection process. Compliance driven system inspections are conducted at defined intervals of PG&E’s transmission towers and the results of these inspections are reviewed by PG&E’s Central Inspection Review Team (CIRT). If maintenance work for a specific tower is identified, including corrosion that needs to be addressed, a maintenance tag can be created per the Electric Transmission Preventative Maintenance Manual (ETPM) and assigned to the appropriate work groups. For corrosion issues that need mitigation through corrosion control measures, these maintenance tags are assigned to the Corrosion Control Department to engineer and mitigate. Tower inspection cost is not included, or part of the Corrosion control planning orders.

PACIFIC GAS AND ELECTRIC COMPANY
Transmission Owner Tariff (TO21)
FERC Docket No. ER24-96-000, et al., et al.
Data Response

PG&E Information Request No.:	CPUC-PGE-AU.143		
PG&E File Name:	FERC-TO21_IR_CPUC-PGE_03-AU.143		
Request Date:	August 27, 2024	Response Date:	September 10, 2024
Requesting Party:	California Public Utilities Commission	PG&E Respondent:	Nikki Apura/ Mike Briones/ George Kataoka

QUESTION CPUC-PGE-AU.143

Please provide a list of all towers coated under PO 5549743 Tower Coating Program Capital, including:

- a. The type of coating product newly applied to each treated tower.
- b. The accounting treatment, including whether the costs associated with each tower were expensed or capitalized.

ANSWER CPUC-PGE-AU.143

- a. Refer to PG&E's response in the Transmission Project Review (TPR) Process to ED-003-Q005(d).
- b. PO 5549743 is capital planning order and all towers that are at least 56 years in age that are coated under this planning order are capitalized.