

SPD DATA REQUEST: SPD-SDGE-WMP2026-02
SDG&E RESPONSE

Date Received: 07-01-2025
Date Submitted: 07-02-2025

I. GENERAL OBJECTIONS

1. SDG&E objects generally to each request to the extent that it seeks information protected by the attorney-client privilege, the attorney work product doctrine, or any other applicable privilege or evidentiary doctrine. No information protected by such privileges will be knowingly disclosed.
2. SDG&E objects generally to each request that is overly broad and unduly burdensome. As part of this objection, SDG&E objects to discovery requests that seek “all documents” or “each and every document” and similarly worded requests on the grounds that such requests are unreasonably cumulative and duplicative, fail to identify with specificity the information or material sought, and create an unreasonable burden compared to the likelihood of such requests leading to the discovery of admissible evidence. Notwithstanding this objection, SDG&E will produce all relevant, non-privileged information not otherwise objected to that it is able to locate after reasonable inquiry.
3. SDG&E objects generally to each request to the extent that the request is vague, unintelligible, or fails to identify with sufficient particularity the information or documents requested and, thus, is not susceptible to response at this time.
4. SDG&E objects generally to each request that: (1) asks for a legal conclusion to be drawn or legal research to be conducted on the grounds that such requests are not designed to elicit facts and, thus, violate the principles underlying discovery; (2) requires SDG&E to do legal research or perform additional analyses to respond to the request; or (3) seeks access to counsel’s legal research, analyses or theories.
5. SDG&E objects generally to each request to the extent it seeks information or documents that are not reasonably calculated to lead to the discovery of admissible evidence.
6. SDG&E objects generally to each request to the extent that it is unreasonably duplicative or cumulative of other requests.
7. SDG&E objects generally to each request to the extent that it would require SDG&E to search its files for matters of public record such as filings, testimony, transcripts, decisions, orders, reports or other information, whether available in the public domain or through FERC or CPUC sources.
8. SDG&E objects generally to each request to the extent that it seeks information or documents that are not in the possession, custody or control of SDG&E.
9. SDG&E objects generally to each request to the extent that the request would impose an undue burden on SDG&E by requiring it to perform studies, analyses or calculations or to create documents that do not currently exist.
10. SDG&E objects generally to each request that calls for information that contains trade

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secrets, is privileged or otherwise entitled to confidential protection by reference to statutory protection. SDG&E objects to providing such information absent an appropriate protective order.

II. EXPRESS RESERVATIONS

1. No response, objection, limitation or lack thereof, set forth in these responses and objections shall be deemed an admission or representation by SDG&E as to the existence or nonexistence of the requested information or that any such information is relevant or admissible.
2. SDG&E reserves the right to modify or supplement its responses and objections to each request, and the provision of any information pursuant to any request is not a waiver of that right.
3. SDG&E reserves the right to rely, at any time, upon subsequently discovered information.
4. These responses are made solely for the purpose of this proceeding and for no other purpose.

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III. RESPONSES

QUESTION 1

In response to Question 3 of SPD-SDG&E-WMP 2026-001 SDG&E submitted a slide deck called “SDGE WMP 2026-2028_Presentation.” On slide 20, SDG&E presented its strategic undergrounding mitigation effectiveness calculation. The following are questions regarding the slide:

- a. SDG&E estimates that undergrounding is 95% effective at mitigating the risk of drivers related ignitions on the underground system.
 - i. Would it be correct to interpret this as SDG&E estimates that an ignition associated with underground lines is 95% less risky than an overhead ignitions?
 1. Provide any SDG&E studies to justify that an underground ignition is less risky than an overhead ignition.
 2. SDG&E states that ignitions associated with the underground system are unlikely to cause wildfires due to underground assets’ enclosed and protected nature. What proof exists that this is correct?
 3. SDG&E is reporting non-reportable and reportable ignitions in the data set. What percentage of ignitions are reportable for each of the drivers?
 4. SDG&E’s four largest CPUC-reportable ignitions between 2015 and 2024 (ignitions on 4/12/2015, 7/6/2018, 5/22/2018, 7/1/2024) were each located in rural areas with a relative abundance of fuel sources. Many of the underground or padmounted reportable ignitions appear to be near more densely populated areas with limited fuel sources. How can SDG&E ensure that the reason for undergrounded ignitions appearing to be less risky is not that they are less risky but instead that undergrounded lines are in areas with less fuels as compared to the overhead lines which result in the more impactful overhead ignitions?
- b. Correct the mitigation effectiveness calculation to fix the arithmetic error which conflates the drivers for outage ignitions. The chart computes the mitigation effectiveness of undergrounding by comparing the number of ignitions from drivers before versus after being mitigated. However, the chart adds the drivers of underground ignitions to the drivers overhead ignitions, as an “ignition being mitigated.” These drivers of undergrounding ignitions will not be mitigated by undergrounding. In fact – the newly undergrounded lines will now be subject to these new set of underground ignition drivers – and so the number of undergrounding related ignitions to increase as lines are undergrounded.
- c. Provide a workpaper which computes the strategic undergrounding mitigation effectiveness calculation, but only includes ignitions that occurred the HFTD.

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RESPONSE 1

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QUESTION 2

Provide a workpaper which shows the study which demonstrates how the estimated effectiveness of covered conductor has degraded overtime as discussed on page 11 of “Joint IOU Grid Hardening Working Group Report: Update for 2026-2028 Wildfire Mitigation Plan.”

- a. How many of the equipment failures used on the “traditionally (bare conductor) hardening” related to non-exempt equipment?

RESPONSE 2

OEIS issued an order rejecting SDG&E’s WMP and ordering that it be submitted by July 11th. In its order, OEIS pointed out specific “non-conforming elements, additional concerns, and non-substantive errata,” but also allowed SDG&E to make additional changes to its WMP. SDG&E is using this opportunity to review the entirety of its WMP. Given the issues raised in this data request, and to ensure SDG&E provides responses that align with its resubmitted WMP on July 11, the CPUC’s Safety Policy Division has granted SDG&E an extension to July 16 to provide responses to this data request. SDG&E’s July 16 response will be considered supplemental.

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QUESTION 3

Provide an update ignition dataset through 2024 to the one previously provided as part of, “WSPS-SDGE-2023WMP-02 SDG&E RESPONSE.”

- a. Provide non-reportable ignitions used in the covered conductor and undergrounding mitigation effectiveness study under the same format.
- b. Include an additional column which classifies each ignition as one of the drivers used in the underground ignitions analysis slide 20 of “SDGE WMP 2026-2028_Presentation.”
- c. Include an additional column which classifies each ignition as the driver used for the covered conductor ignition mitigation effectiveness study on slide 21 of “SDGE WMP 2026-2028_Presentation.”
- d. Include a column which indicates which ignitions were used to determine the reduction in 10-year effectiveness of system hardening as described on page 11 of “Joint IOU Grid Hardening Working Group Report: Update for 2026-2028 Wildfire Mitigation Plan”
- e. Include a column which classifies if the “equipment involved with ignition” was exempt or non-exempt.

RESPONSE 3

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QUESTION 4

SPD understands SDG&E uses its “OH CMP Detailed Inspection Instructor Guide” to provide guide to its overhead inspectors. The guide provides little information as to how to prioritize corrective actions as level 1s, level 2s or level 3 per Rule 18 of General Order 95. What other guidance does SDG&E give its inspectors to ensure consistency between inspectors?

- a. For instance – one can imagine a pole that is split at the top, which may need a different priority depending on the severity. How does SDG&E ensure their inspectors assign a similar priority level for these types of conditions? Does SDG&E provide pictures to its inspectors showing different priority levels?

RESPONSE 4

OEIS issued an order rejecting SDG&E’s WMP and ordering that it be submitted by July 11th. In its order, OEIS pointed out specific “non-conforming elements, additional concerns, and non-substantive errata,” but also allowed SDG&E to make additional changes to its WMP. SDG&E is using this opportunity to review the entirety of its WMP. Given the issues raised in this data request, and to ensure SDG&E provides responses that align with its resubmitted WMP on July 11, the CPUC’s Safety Policy Division has granted SDG&E an extension to July 16 to provide responses to this data request. SDG&E’s July 16 response will be considered supplemental.

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QUESTION 5

What steps has SDG&E taken to archive any data or models related to current and past risk models?

- a. Have any aspects of the current version of the Wings-Planning risk framework not been archived? If so, explain why they were not archived. i. If any aspects of the current version of the Wings-Planning risk framework were not archived, would this prevent a party from asking for data analysis the current version of the Wings-Planning risk framework in the future?
- b. How long will SDG&E maintain its archive of the data or models related to the current version of the Wings-Planning risk framework?
- c. What data is SDG&E maintaining of its previous asset data? What data would be missing if SDG&E wanted to backcast the risk in pre-2023 years using the current version of the Wings-Planning risk framework?
- d. How is SDG&E working to ensure that future models have the data necessary to backcast the risk to current system configurations?

RESPONSE 5

OEIS issued an order rejecting SDG&E's WMP and ordering that it be submitted by July 11th. In its order, OEIS pointed out specific "non-conforming elements, additional concerns, and non-substantive errata," but also allowed SDG&E to make additional changes to its WMP. SDG&E is using this opportunity to review the entirety of its WMP. Given the issues raised in this data request, and to ensure SDG&E provides responses that align with its resubmitted WMP on July 11, the CPUC's Safety Policy Division has granted SDG&E an extension to July 16 to provide responses to this data request. SDG&E's July 16 response will be considered supplemental.

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QUESTION 6

In Response to Question 5.d.i of “SPD-SDGE-WMP2026-001,” SDG&E stated the following:

Trench mile is a unit of measure which includes civil construction (digging the trench & sub-structure locations, placement of conduit, etc.) required to complete a project(s), whereas Energized Mile is a unit of measure that includes the use of existing underground facilities (spare conduit) that were cabled as part of the project(s).

SPD understands that the work that SDG&E is performing is usually new work and so is confused as to how the energized mile only relates to existing work. Because of this, SPD is interpreting that the energized cost per mile is in addition to the trench cost per mile – and so understands that the full cost per mile of undergrounding is $1.930 + 2.379 = \$4.309$ million per mile. If this is not correct, provide a diagram which shows the difference between energized miles and trench miles.

RESPONSE 6

OEIS issued an order rejecting SDG&E’s WMP and ordering that it be submitted by July 11th. In its order, OEIS pointed out specific “non-conforming elements, additional concerns, and non-substantive errata,” but also allowed SDG&E to make additional changes to its WMP. SDG&E is using this opportunity to review the entirety of its WMP. Given the issues raised in this data request, and to ensure SDG&E provides responses that align with its resubmitted WMP on July 11, the CPUC’s Safety Policy Division has granted SDG&E an extension to July 16 to provide responses to this data request. SDG&E’s July 16 response will be considered supplemental.

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QUESTION 7

In response to SPD-SDGE-WMP2026-001 Question 2, SDG&E provided SPD with the file SDGE Response SPD-SDGE-WMP2026-001-Q02.b.Lifecycle Cost Dataset.xlsx. This Excel workbook includes the “lifecycle cost all territory” spreadsheet and each field in this spreadsheet is defined in the “metadata definition” spreadsheet. In the “metadata definition” spreadsheet of SDGE Response SPD-SDGE-WMP2026-001-Q02.b.Lifecycle Cost Dataset.xlsx it is explained that the field “total_ug_cost_per_mile”¹ is calculated using the following formula: “total_ug_asset_cost_per_mile + total_ug_psp_cost_per_mile”. Additionally, the field “total_ug_asset_cost_per_mile” is calculated using the following formula: total_ug_inspection_cost_per_mile + total_ug_repair_cost_per_mile.

- a. Explain how SDG&E calculated values for each of the following fields:
 - i. total_ug_inspection_cost_per_mile
 - ii. total_ug_repair_cost_per_mile
 - iii. total_ug_psp_cost_per_mile
- b. Explain why the total_ug_repair_cost_per_mile field includes a value of \$247,280 for every feeder segment.
- c. Explain how each of the fields discussed in Question 7a. relate to corresponding values in the “Unit Cost” spreadsheet found in SDGE Response SPD-SDGE-WMP2026-001-Q02.b.Lifecycle Cost Dataset.xlsx. For instance, did SDG&E use the estimate of \$1.43M/year for Total UG Inspection Cost in the “Unit Cost” Spreadsheet to inform total_ug_inspection_cost_per_mile field found in the “lifecycle cost all territory” spreadsheet.
 - i. If not, explain why not.
- d. Provide any datasets that informed the calculation of the fields listed in mQuestion 7a.
- e. Explain why Appendix G does not include separate spreadsheets for “UG Inspections”.
- f. For each of the fields listed in Question 7a., explain if the costs associated with that field fund a Mitigation or Control “Program” as defined in Row 28 of the RDF.²
 - i. Provide the page number in D.24-12-074 or its Appendices that discuss this Program and its costs.
 - ii. Provide the page number in the Sempra 2024 Risk Spend Accountability Report (RSAR) that discusses this Program and its costs. 1. Provide an Excel version of the Sempra 2024 RSAR

¹ This field is defined as the “total cost of combined covered conductor related cost divided by the length of the circuit miles of the given segment”.

² D.24-05-064, Appendix A at A-19 – A-20.

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- iii. Explain which budget code SDG&E used in its 2024 Test Year GRC to recover the costs presented in each field.
- iv. Explain if SDG&E intends to use a similar budget code to present these forecasted costs in its 2028 Test Year GRC.
- v. Explain which workpaper and cost center(s) SDG&E used in its 2024 Test Year GRC to recover the costs presented in this field.
- vi. Explain if SDG&E intends to use a workpaper and cost center(s) to present these forecasted costs in its 2028 Test Year GRC.
- g. In the “Unit Cost” spreadsheet for the SS10 Inspection (Subsurface) and AGI Inspection (Padmount) SDG&E has indicated that this would occur on a 10 and 5 year frequency, respectively.
 - i. Explain how these frequencies comply with GO 165 inspection requirements.
 - ii. Explain any other inspections and patrols that are required for undergrounded feeder segments by GO 165 that are not listed in the Unit Cost spreadsheet.
 - 1. What are the costs associated with these inspections and patrols.
- h. For each location where SDG&E references “Historical Data” in Column H of the “Unit Cost” spreadsheet, provide SPD with said dataset.
 - i. The name of each dataset must only include the name of the Activity (Column A) and timespan of the data. For instance, for the data referenced in cell H17, the dataset must be named “UG Repair and Replacement Capital 2020-2024.xlsx”.
 - ii. For each dataset, explain why only 1 or 5 years of data were used.

RESPONSE 7

OEIS issued an order rejecting SDG&E’s WMP and ordering that it be submitted by July 11th. In its order, OEIS pointed out specific “non-conforming elements, additional concerns, and non-substantive errata,” but also allowed SDG&E to make additional changes to its WMP. SDG&E is using this opportunity to review the entirety of its WMP. Given the issues raised in this data request, and to ensure SDG&E provides responses that align with its resubmitted WMP on July 11, the CPUC’s Safety Policy Division has granted SDG&E an extension to July 16 to provide responses to this data request. SDG&E’s July 16 response will be considered supplemental.

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QUESTION 8

In the “metadata definition” spreadsheet of SDGE Response SPD-SDGE-WMP2026-001-Q02.b.Lifecycle Cost Dataset.xlsx it is explained that the field “total_if_cc_cost_per_mile”³ is calculated using the following formula: “total_oh_asset_cost_per_mile + total_oh_veg_cost_per_mile + total_cc_pspcs_cost_per_mile + total_oh_peds_cost_per_mile + microgrid_cost_per_mile”. Additionally, the field “total_oh_asset_cost_per_mile” is calculated using the following formula: “total_oh_inspection_cost_per_mile + total_oh_repair_cost_per_mile + pole_replacement_cost_per_mile”.

- a. Explain how SDG&E calculated values for each of the following fields:
 - i. total_oh_veg_cost_per_mile
 - ii. total_cc_pspcs_cost_per_mile
 - iii. total_oh_peds_cost_per_mile
 - iv. microgrid_cost_per_mile
 - v. total_oh_inspection_cost_per_mile
 - vi. total_oh_repair_cost_per_mile
 - vii. pole_replacement_cost_per_mile
- b. Explain how each of the fields discussed in Question 8a. relate to corresponding values in the “Unit Cost” spreadsheet found in SDGE Response SPD-SDGE-WMP2026-001-Q02.b.Lifecycle Cost Dataset.xlsx. For instance, did SDG&E use the estimate of \$35.62M/year for OH Replacement Capital in the “Unit Cost” spreadsheet to inform the pole_replacement_cost_per_mile field found in the “lifecycle cost all territory” spreadsheet.
 - i. If not, explain why not.
- c. Provide any datasets that informed the calculation of the fields listed in Question 8a.
- d. For each of the fields listed in Question 8a., explain if those seven fields are representative of, connected to and/or directly calculated from the costs listed in any of the spreadsheets in Appendix G of the 2026-2028 Base WMP? For instance, do the values found in the total_oh_veg_cost_per_mile field correspond to any of the cost fields (i.e. PV Total Cost Capital + O&M, Mitigation Annual Cost etc.) found in the Pole_Clearing, Fuel_Management, Trim_and_Removal, Off_Cycle_Partrol and/or Veg_Detail_Inspection spreadsheets found in Appendix G. Explain.
 - i. If not, explain why not.
- e. For each of the fields listed in Question 8a., explain if the costs associated with that field fund a Mitigation or Control “Program” as defined in Row 28 of the RDF.⁴

³ This field is defined as the “total cost of undergrounding related cost divided by the length of the circuit miles after the given segment is undergrounded”

⁴ D.24-05-064, Appendix A at A-19 – A-20.

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- i. Provide the page number in D.24-12-074 or its Appendices that discuss this Program and its costs.
 - ii. Provide the page number in the Sempra 2024 Risk Spend Accountability Report (RSAR) that discusses this Program and its costs.
 - iii. Explain which budget code SDG&E used in its 2024 Test Year GRC to recover the costs presented in each field.
 - iv. Explain if SDG&E intends to use a similar budget code to present these forecasted costs in its 2028 Test Year GRC.
 - v. Explain which workpaper and cost center(s) SDG&E used in its 2024 Test Year GRC to recover the costs presented in this field.
 - vi. Explain if SDG&E intends to use a workpaper and cost center(s) to present these forecasted costs in its 2028 Test Year GRC.
- f. In the “Unit Cost” spreadsheet the Average Annual Cost (HFTD) for OH Replacement Capital is \$35.62M.
- i. Explain why this value is \$35.62M when $\$25,000/\text{pole} * 700 \text{ wood poles/year} = \17.5M .
 - ii. Explain why the Frequency of OH Replacement Capital is 700 wood poles/year, but in the notes it says “700 poles on average were replaced in the last 5 years”.
 - iii. How many wood poles currently exist in SDG&E’s territory?
 - iv. How many wood poles currently support covered conductor on SDG&E’s electric grid?
 - v. Provide a dataset that demonstrates the distribution of the age of wood poles that currently exist in SDG&E’s territory. Include a variable in the dataset that designates wood poles that support covered conductor.
 - vi. Regarding the forecast that 700 poles supporting covered conductor on average would be replaced each year, does SDG&E’s estimate of 700 wood poles per year for covered conductor include any other pole replacement programs related to the following issues:
 - 1. deterioration,
 - 2. overloading, and
 - 3. emergencies.

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QUESTION 9

For every mitigation or control program spreadsheet⁵ found in Appendix G of the 2026-2028 Base WMP, explain the following:

- a. What is the capital investment associated with the “Capital Cost only in Year 0” field for this program
- b. What are the “Long-term Ongoing costs” for this program
- c. What are the “Additional Installation Cost (O&M) only in Year 0” for this program
- d. Explain why SDG&E does or does not calculate the risk reduction for the safety and reliability attributes for this program.
- e. Explain why SDG&E does or does not leave the “Mitigation Annual Cost (K\$/year)” field empty for this program.
- f. Explain why the Present Value fields in Row 16 all include “Year 55”
- g. Explain why the Present Value fields in Row 20 all include “Year 40”
- h. Explain why the BCRs do or do not change across the three discount rate scenarios.

RESPONSE 9

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⁵ This includes SUG, CCC, Pole_Clearing, OH_Patrol, FCP, etc. The Microgrid(Capital) spreadsheet does not need to be included in SDG&E’s response to this question.

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QUESTION 10

For the PV Risk Reduced and PV Total Cost fields in the mitigation and control program spreadsheets found in Appendix G of the 2026-2028 Base WMP, explain why SDG&E chose to estimate Present Value using the method found in the Inflation_and_Discout spreadsheet rather than to use the PV or Sequence functions that are native to Excel.

- a. Explain what are the values under WACC, Hybrid and Societal Discount rates in columns F, G, H on Rows 3-7 of the Inflation_and_Discout spreadsheet.

RESPONSE 10

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QUESTION 11

SDG&E's underground cost is noticeably lower than that of other IOUs. SPD understands the contractors are paid at similar rates for the state of California.

- a. Describe any changes in the contracts, such as a longer-term contract that helps reduce the costs of undergrounding.
 - i. In Appendix G of the 2026-2028 Base WMP, where would the costs of the longer-term contract be captured?
- b. Provide a high level cost analysis that includes consideration of structure installations, such as Manholes, Vaults, Pads, or any other structures required for the support of an undergrounding effort.
 - i. Provide a cost analysis of each underground feeder segment submitted to Appendix G that includes structure installations, such as Manholes, Vaults, Pads, or any other structures required for the support of an undergrounding effort.
- c. Provide a cost breakdown for a brand-new underground circuitry installed compared with a retrofit of an existing underground system.
- d. For spare conduits installed, do they meet the requirements for the new UG cable, and what would be the additional cost to replace the conduits.
- e. Provide relocation costs, if any, for both new and existing installation of UG circuitry.
 - i. Explain whether or not relocation costs would also involve the upgrade of the existing structures to accommodate the addition of cable and equipment.
- f. If any of the UG structures contains third-party cables or equipment, what is the current process to relocate or retrofit the additional equipment/cable?
 - i. What would be the added cost to relocate or retrofit the third-party equipment/cable?
- g. SPD understands that some costs of equipment are often centralized at company-wide level.⁶ For example, SPD understands that many companies buy distribution overhead transformers in bulk, so if a line were to be added, the cost of the project may not include the distribution overhead transformer as its supplied by the company. What (if any) of the costs associated with SDG&E's undergrounding projects are centralized and therefore not included in the cost estimates?

⁶ See PG&E Response to Question 4 of TURN Data Request WMP-Discovery2026-2028_DR_TURN_003-Q004 and the workpaper WMP-Discovery2026-2028_DR_TURN_003-Q004Atch01.xlsx

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RESPONSE 11

OEIS issued an order rejecting SDG&E's WMP and ordering that it be submitted by July 11th. In its order, OEIS pointed out specific "non-conforming elements, additional concerns, and non-substantive errata," but also allowed SDG&E to make additional changes to its WMP. SDG&E is using this opportunity to review the entirety of its WMP. Given the issues raised in this data request, and to ensure SDG&E provides responses that align with its resubmitted WMP on July 11, the CPUC's Safety Policy Division has granted SDG&E an extension to July 16 to provide responses to this data request. SDG&E's July 16 response will be considered supplemental.

**SPD DATA REQUEST: SPD-SDGE-WMP2026-02
SDG&E RESPONSE**

**Date Received: 07-01-2025
Date Submitted: 07-02-2025**

END OF REQUEST