505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3298

March 17, 2025

Austin Hastings VP, Gas Engineering 6121 Bollinger Canyon Road San Ramon, CA 94583

SUBJECT: SED's Closure Letter for General Order (GO) 112-F Gas Inspection of PG&E's Central Area Transmission Assets

Dear Mr. Hastings:

The Safety and Enforcement Division (SED) of the California Public Utilities Commission reviewed Pacific Gas & Electric Company's (PG&E) response letter dated February 11, 2025, for the findings identified during the General Order 112-F inspection of PG&E's Central Area Transmission Assets which was conducted from April 15th through April 26th, from May 6th through May 10th, and from November 18th through November 22nd, 2024.

A summary of the inspection findings documented by SED, PG&E's response to our findings, and SED's evaluation of PG&E's response taken for each identified Violation and Area of Concern is attached.

This letter serves as the official closure of the 2024 GO 112-F inspection of PG&E's Central Area Transmission Assets and any matters that are being recommended for enforcement will be processed through the Commission's Citation Program or a formal proceeding.

Thank you for your cooperation in this inspection. If you have any questions, please contact Victor Muller at (415) 940-4352 or by email at victor.muller@cpuc.ca.gov.

Sincerely,

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Dennis Lee, P.E. Program & Project Supervisor Gas Safety and Reliability Branch Safety and Enforcement Division

Enclosure: Post-Inspection Written Findings

cc: Kristina Castrence, PG&E
Frances Yee, PG&E
Izzat Taha, PG&E Gas Regulatory Compliance
Claudia Almengor, SED
Terence Eng, SED
Jason McMillan, SED



GI-2024-04-PGE-77-01ABC

Post-Inspection Written Findings

Dates of Inspection: 04/15/2024 - 04/26/2024, 05/06/2024-05/10/2024, & 11/18/2024-11/22/2024

Operator: PACIFIC GAS & ELECTRIC CO

Operator ID: 15007 (primary)

Inspection Systems: PG&E Central Transmission

Assets (Unit IDs) with results in this report: Central Area (86288)

System Type: GT

Inspection Name: 2024 PG&E Central Transmission

Lead Inspector: Victor Muller

Operator Representative: Glen Allen

Unsatisfactory Results

Time-Dependent Threats : Atmospheric Corrosion (TD.ATM)

Question Title, ID Atmospheric Corrosion Monitoring, TD.ATM.ATMCORRODEINSP.R Question 4. Do records document inspection of aboveground pipe for atmospheric corrosion? References 192.491(c) (192.481(a), 192.481(b), 192.481(c), 192.481(d), 192.9(f)(1), 192.453) Assets Covered Central Area (86288 (77)) Issue Summary Unsatisfactory

Title 49 Code of Federal Regulations (CFR) §192.605(a) states, in part, "Each operator shall prepare and follow for each pipeline, a manual of written procedures for conducting operations and maintenance activities and for emergency response."

PG&E's Utility Procedure TD-4188P-02 (Publication Date:11/18/2020, Effective Date:11/18/2020 Rev:1a) requires the corrosion technician to contact the local supervisor to create a corrective notification ticket to recoat when they discover an abnormal operating condition (AOC) consisting of light surface rust or coating issues at air-to-soil transitions.

PG&E's Utility Procedure TD-4188S (Publication Date: 2/17/2016, Effective Date: 1/1/2017) Section 4 "Mitigation", states, in part: "The mitigation timeline of atmospheric corrosion-related abnormal operating conditions (AOCs) found during monitoring must not exceed thirty-nine months from the date of the AOC identification..."

SED reviewed atmospheric corrosion inspection records and found the following:

PG&E identified major coating and/or corrosion issues at the air-to-soil transitions for two different aboveground pipe spans, Equipment #44728718 and #44728719, on 8/27/2019. PG&E found the same issues again on 5/16/2022. PG&E did not take steps to remediate these corrosion issues between these

inspection dates. PG&E confirmed that they first created corrective notification tickets (123697644 and 123699292, respectively) on 5/26/2022. SED visited both spans in the field on 5/8/2024 and verified that the AOCs had not been remediated.

PG&E still had not remediated the AOCs by the end of SED's inspection on 11/22/2024, thus exceeding the 39-month timeline specified in TD-4188S. Based on the information gathered, SED finds that PG&E is in violation of Title 49 CFR Part 192.605(a) for failing to follow its Utility Procedure TD-4188S by not mitigating the AOCs within 39 months of identification.

- **PG&E's Response:** PG&E agrees with this finding. Correctives for the 2019 inspection results for unintentionally exposed pipes 44728718 and 44728719 were not manually created in SAP after uploading their maintenance inspection records. In 2019, correctives were not automatically generated in SAP following input of the results, as they currently are. Corrective notifications were automatically created following input of the 2022 maintenance inspection results and both of these unintentionally exposed pipes are scheduled for repair in 2025. To prevent reoccurrence, a meeting was held with relevant departments (TIMP Risk, Pipeline Services and Corrosion Engineering) to confirm and review responsibility for inputting inspection results into SAP so that corrective notifications for unintentionally exposed pipes are automatically generated. Starting in 2025, Quality Control will screen all inspections and confirm a corrective was created based on the inspection results.
- **SED's Conclusion:** SED has reviewed PG&E's response and accepts the corrective action. SED has decided not to impose a fine or penalty at this moment. SED will review the records of the corrective action during future inspections.
 - Question Title, ID Atmospheric Corrosion Monitoring, TD.ATM.ATMCORRODEINSP.O
 - Question 5. Is pipe that is exposed to atmospheric corrosion protected?
 - References 192.481(b) (192.481(c), 192.479(a), 192.479(b), 192.479(c), 192.481(d), 192.9(f)(1), 192.453, 192.491)
 - Assets Covered Central Area (86288 (77))
 - Issue Summary Unsatisfactory

Title 49 CFR §192.605(a) states, in part, "Each operator shall prepare and follow for each pipeline, a manual of written procedures for conducting operations and maintenance activities and for emergency response."

PG&E's Utility Procedure TD-4188P-02 (Publication Date:11/18/2020, Effective Date:11/18/2020 Rev:1a), Section 2.1 requires corrosion personnel to note the location of submerged areas on Form TD-4188P-02-F01 and create a Request for Work in SAP to inspect the span on a quarterly interval if span is partially or fully submerged in water.

SED reviewed atmospheric corrosion inspection records of an aboveground span, Equipment #41440904, for the year of 2021. SED found that a corrosion technician noted the location of submerged areas on the atmospheric corrosion (AC) inspection form (i.e. Form TD-4188P-02-F01 or Pronto Form) and created a Request for Work (RW) in SAP to inspect the span on a quarterly maintenance plan on 6/3/2021. PG&E has missed a total of three quarterly maintenance cycles since 6/3/2021.

PG&E responded that "The reason this missed maintenance was due to a misfunction of PRONTO which did not attach the inspection form to the notification, therefore stopping the creation of the RW".

Based on the information gathered, SED finds PG&E is in violation of Title 49 CFR §192.605(a) for failing to follow its Utility Procedure TD-4188P-02 by not conducting quarterly maintenance inspections after PG&E discovered the span was fully submerged in water on 6/3/2021.

PG&E's Response:PG&E agrees with this finding. The issue with the quarterly inspections for unintentionally
exposed pipe 41440904 was self-identified and reported per CAP 128472298 on April 8, 2024,
prior to the start of the inspection (see Attachment 1 – "CAP 128472298"). This self-report was
included in the 2024 Q2 IRSF which was submitted to SED on July 26, 2024 (see Attachment 2
– "2024 Q2 IRSF_CONF"). This information was provided to SED during the inspection per Data
Request #80 and again by email to the audit lead on December 4, 2024. The reason for this
missed maintenance was due to a misfunction of PRONTO which did not attach the inspection
form to the notification, therefore stopping the creation of the RW. Per the IRSF, all actions are
complete and "Last maintenance that was completed was on April 11, 2024 and it is currently
not submerged. It is back on its 3-year maintenance plan which is set to call next in April 2027".

SED has reviewed PG&E's response and accepts the corrective action. SED has decided not to impose a fine or penalty at this moment. SED will review the records of the corrective action during future inspections.

Time-Dependent Threats : External Corrosion - CP Monitoring (TD.CPMONITOR)

Question Title, ID Extent of Corrosion Control Deficiencies for Onshore Gas Transmission, TD.CPMONITOR.DEFICIENCYEXTENT.R

Question 13. For onshore gas transmission pipelines, does the remedial action plan adequately document actions taken to determine the extent of inadequate cathodic protection, and correct any identified deficiencies in corrosion control?

References 192.491(c) (192.465(d), 192.465(f))

Assets Covered Central Area (86288 (77))

Issue Summary Title 49 CFR §192.463(c) states: "The amount of cathodic protection must be controlled so as not to damage the protective coating or the pipe."

Title 49 CFR §192.465(d) states, "Each operator shall take prompt remedial action to correct any deficiencies indicated by the monitoring."

PG&E's Utility Procedure: TD-4181P-202 (Publication Date:9/18/2019, Effective Date: 12/18/2019 Rev:1), Section 2.1 states, in part "1. If the P/S potential measurements are more negative than -2500 mV with impressed cathodic protection current applied (rectifier ON), then perform an instant-OFF test... 3. IF the instant-OFF test demonstrated that the P/S potential of the pipeline is more negative than -1200 mV, then an overprotection condition may exist and further testing may be required."

SED reviewed a set of test station inspection records and noted that PG&E identified overprotection issues (i.e. pipe-to-soil (P/S) potentials more negative than -2,500 mV with impressed cathodic protection current applied (rectifier On) and more negative than -1,200 mV during the instant-OFF test) for equipment #41385543, #44662777, #44782147, #44361695, and #44917626 in 2021. The remediation was completed in 2023, more than a full inspection cycle after the discovery of the overprotection issues and which SED does not consider to be 'prompt' action.

PG&E stated in part, "Overprotection issues was not mitigated earlier due to a systemwide issue within SAP where "Instant Off" reads more negative than -1200 mv were listed as an "area up" rather than an "area down". Therefore, the overprotection reads on CTS's in SAP would not automatically generate a troubleshoot notification for the local Corrosion Mechanics to troubleshoot. This issue was first identified in February of this year [2024] by Corrosion Engineering and was corrected in SAP in April [2024]. CAP 129036062 (see attached) was generated and the issue was first self-reported in the 2022 Q2 IRSF."

Based on the information gathered, SED finds PG&E in violation of Title 49 CFR §192.465(d) for not taking prompt remedial action to address the above deficiencies.

PG&E's Response: PG&E agrees with this finding. The Coupon Test Station (CTS) overprotection for EQ's 41385543, 44662777, 44782147 and 44361695 were not mitigated earlier due to a systemwide CONFIDENTIAL – Provided Pursuant to Confidentiality Declaration ("Index 17448_Confidentiality Declaration.pdf") issue within SAP where "Instant Off" reads more negative than -1200 mV were listed as an "area up" rather than an "area down." Therefore, the overprotection reads on CTS's in SAP would not automatically generate a troubleshoot notification for the local Corrosion Mechanics to troubleshoot. This issue was first self-identified in February of 2024 by Corrosion Engineering and was corrected in SAP in April of 2024. CAP 129036062 (see Attachment 3 – "CAP 129036062") was generated and the issue was first selfreported in the 2024 Q2 IRSF. EQ's 41385543, 44662777, 44782147 and 44361695 were remediated in 2023 and the latest 2024 reads indicate that they are still in compliance. Attached, please find Attachment 4 – "Updated OP Reads Notifications" for the latest reads for these CTS's.

Please note that EQ 44917626 was not out of compliance. As stated in the "Issue Summary" above, both the "pipe-to-soil (P/S) potentials have to be more negative than -2,500 mV with impressed cathodic protection current applied (rectifier On) and more negative than -1,200 mV with (instant-OFF)" to be out of compliance. This criterion was not met for EQ 44917626. The pipe to soil reads were not more negative than -2500 mV. Attached, please find Attachment 5 – "EQ 44917626 Read Summary".

SED's Conclusion: SED has reviewed PG&E's response and accepts the corrective action. SED has decided not to impose a fine or penalty at this moment.

Concerns

Time-Dependent Threats : Atmospheric Corrosion (TD.ATM)

Question Title, ID Atmospheric Corrosion Monitoring, TD.ATM.ATMCORRODEINSP.O

Question 5. Is pipe that is exposed to atmospheric corrosion protected?

References 192.481(b) (192.481(c), 192.479(a), 192.479(b), 192.479(c), 192.481(d), 192.9(f)(1), 192.453, 192.491)

Assets Covered Central Area (86288 (77))

Issue Summary Concerns:

(1) PG&E was unable to perform a full inspection during the quarterly maintenance for the aboveground span with equipment #45227711 due to heavy vegetation around the span between 2/22/22 and 2/6/23. SED visited the span and verified that PG&E had not remediated the heavy vegetation issue by 4/25/24. PG&E has worked with its vegetation management team to remove the vegetation from the span. On 11/18/24, PG&E responded that starting in October of this year, the Vegetation Management team had instituted a new process for PG&E's field personnel to request and submit a vegetation cleaning work order through its Gas Transmission Vegetation Management Home SharePoint site as well as hold a five-minute meeting to explain the new process.

SED recommends PG&E update its procedures to include a timeframe for remediation for vegetation management.

PG&E's Response:

PG&E agrees with this finding. A Vegetation management work order was not completed following the quarterly inspections performed between February 22, 2022 and February 6, 2023 for unintentionally exposed pipe 45227711. PG&E has implemented a new process for field personnel to request and submit a vegetation clearing work order. The Vegetation Management team has instituted this new process for PG&E's field personnel to request and submit a vegetation clearing work order through its Gas Transmission Vegetation Management Home SharePoint site. A five-minute meeting to explain the new process has been created for guidance. This new process was demonstrated to the SED inspectors prior to the inspection close-out meeting. Please see Attachment 6 – "5MM_GTVM_ Jan 7 2025", for the completed 5 CONFIDENTIAL – Provided Pursuant to Confidentiality Declaration ("Index 17448_Confidentiality Declaration.pdf") Minute Meeting. This unintentionally exposed pipe was inspected on November 13, 2024 with no abnormal operating conditions identified and has been placed on a 3 year inspection cycle.

PG&E span and unintentionally exposed pipe inspections have a due date of 36 months (often completed sooner than 36 months) from the previous inspection. This 36-month due date is 3 months ahead of the 39-month compliance date. Therefore, if a span has vegetation issues not previously identified when a mechanic goes to perform the inspection at or before the 36-month PG&E due date, there will be time to create and complete a vegetation clearing work order for the atmospheric corrosion inspection prior to the compliance due date. For corrective projects, a site walk is performed over a year prior to the compliance date. This allows adequate time to identify a vegetation issue and complete a vegetation clearing work order prior to the start of a corrective project.

SED's Conclusion:

SED has reviewed the response from PG&E and determined that the corrective actions articulated by PG&E sufficiently address SED's concern.

Issue Summary (2) PG&E performed an inspection on span equipment #41431166 on 5/10/23 but incorrectly documented it as span equipment #45227711. As a result, the span, equipment #45227711, was incorrectly removed from the Quarterly Maintenance plan.

SED recommends that PG&E update its procedures to add a requirement for quality control (QC) personnel to check for accuracy of inspection reports.

PG&E's Response:

PG&E agrees with this finding. PG&E performed an inspection on span 41431166 on May 10, 2023 but incorrectly documented it as unintentionally exposed pipe 45227711. Please note that both are located on the same dirt road within approximately two miles of each other on rural Grizzly Island in the Rio Vista District. PG&E has attached the span inspection reports to their correct equipment numbers. To prevent reoccurrence, a meeting was held with relevant departments (TIMP Risk, Pipeline Services and Corrosion Engineering) to confirm and review responsibility for inputting inspection results into SAP. Starting in 2025, Quality Control will screen all inspections and confirm that inspection reports are uploaded to the correct equipment number and confirm that correct notifications are created.

SED's Conclusion:

SED has reviewed the response from PG&E and determined that the corrective actions articulated by PG&E sufficiently address SED's concern.