

Michael Falk Director Compliance Gas Operations 6111 Bollinger Canyon Rd. San Ramon, CA 94583 Phone: 925.244.3276 E-mail: mdfl@pge.com

March 9, 2016

Mr. Ken Bruno
Gas Safety and Reliability Branch
Safety and Enforcement Division
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: State of California – Public Utilities Commission

General Order 112 Audit – PG&E's Sierra Division

Dear Mr. Bruno:

The Safety and Enforcement Division (SED) of the CPUC conducted a General Order 112 audit of PG&E's Sierra Division from October 12-16, 2015. On February 8, 2016, the SED submitted their audit report, identifying violations and findings. Attached is PG&E's response to the CPUC audit report.

Please contact Larry Berg at (925) 328-5758 or lmb5@pge.com for any questions you may have regarding this response.

Sincerely,

/S/

Michael Falk

Attachments

cc: Banu Acimis, CPUC
Aimee Cauguiran, CPUC
Wai-Yin Chan
Dennis Lee, CPUC
Alin Podoreanu, CPUC

Larry Deniston, PG&E Sumeet Singh, PG&E Susie Richmond, PG&E

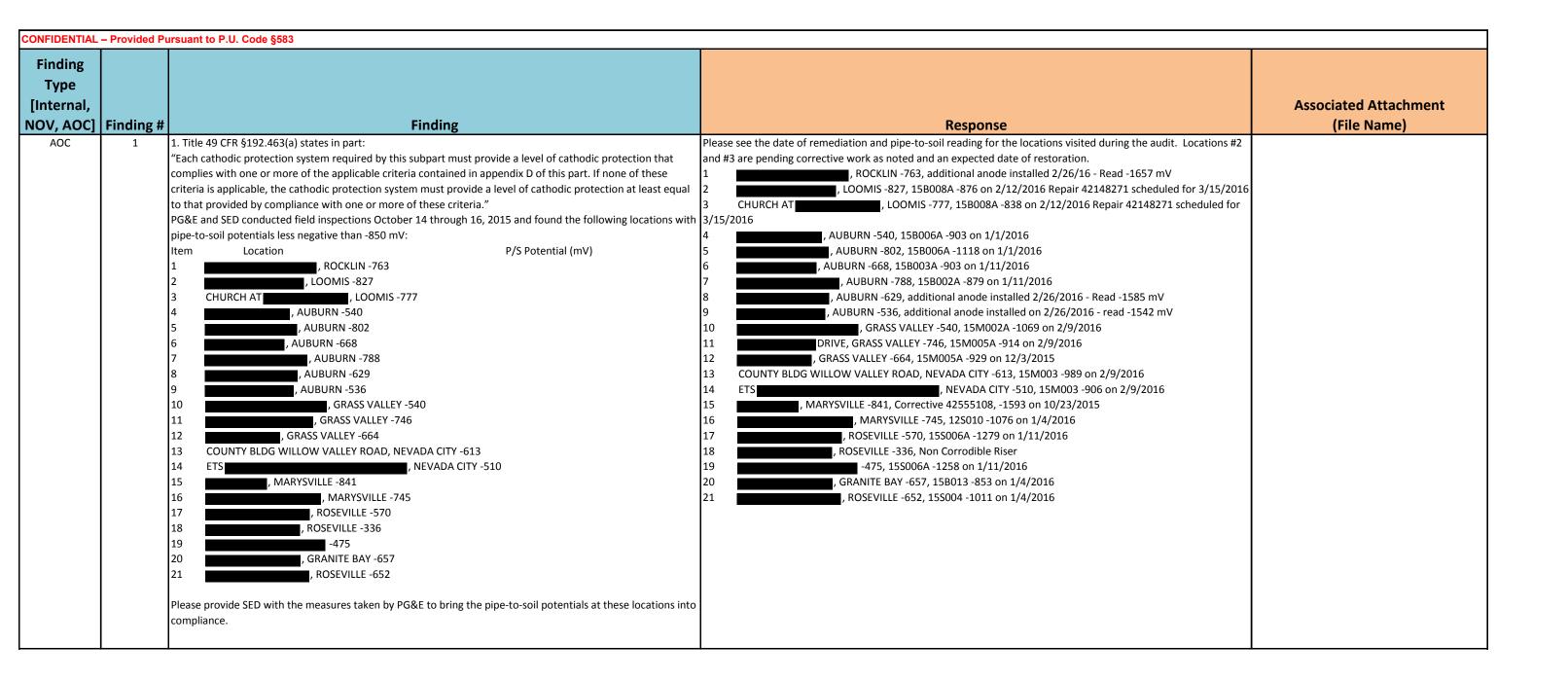
2015 Sierra Division CPUC Audit Responses

CONFIDENTIAL - Provided Pursuant to P.U. Code §583

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| [Internal, | | | | Associated Attachment |
| NOV, AOC] | Finding # | | Response | (File Name) |
| Internal Review | | Prior to the start of the audit, PG&E provided SED its findings from the internal review it conducted of the | The pending corrective actions for the pending internal review findings (as of Oct 16, 2015) have been completed | |
| Findings | | Division. Some of PG&E's internal review findings are violations of PG&E's operations and maintenance | and are listed below. | |
| | | | 1) <u>Casings not monitored Annually</u> – Upon investigation of the finding of 8 casing locations not being monitored | |
| | | of the corrosion control violations that PG&E noted. | annually, 6 locations could be accurately validated and are reported below. Two locations were incorrectly noted | |
| | | Table 1: Sierra Division Corrosion Control Internal Findings Summary | as findings. | |
| | | Topic Code Finding Instances Corrected? | 42710843 Casing monitored 10/20/2015 -1047 mV P/S and -408 mV C/S. This casing location is in the SAP | |
| | | Corrosion Control 192.463 CPA down over 12 months 8 Yes | maintenance plan for annual monitoring by Sierra Corrosion Dept. | |
| | | 192.605(a) No Action Plan created when required 24 Yes 192.605(a) Late Action Plans 2 Yes | 41399125 Casing removed from field. This casing location has been removed from the SAP maintenance plan for annual monitoring. | |
| | | 192.13(c) Maintenance completed late 2 Yes | 41388544 Casing Without Lead. A monitoring notification has been created in SAP to assign this casing location to | |
| | | 192.463 | a consultant and managed by Corrosion Engineering Dept. | |
| | | No action taken 3 Yes | 41413138 Casing removed from field. This casing location has been removed from the SAP maintenance plan for | |
| | | 192.605(a) Casings not monitored annually 8 Pending | annual monitoring. | |
| | | 192.805 Carrier Pipe P/S < 100 mV or Casing P/S > 800 mV 3 Yes | 41420114 Casing removed from field. This casing location has been removed from the SAP maintenance plan for | |
| | | | annual monitoring. | |
| | | SED is aware that PG&E corrected some of its findings prior to SED's audit. Please provide SED an update on | 41413217 Casing Without Leads. A monitoring notification has been created in SAP to assign this casing location to | |
| | | the items that were still pending corrective actions as of October 16, 2015. | a consultant and managed by Corrosion Engineering Dept. | |
| | | | | |
| | | | 2) <u>Reference electrode not checked Quarterly</u> - Unit M-10 has been removed from service. All Sierra Division | |
| | | | corrosion instruments, including reference electrodes, have been entered into the SAP maintenance plan as of 2/1/2016 to ensure their calibration checks are completed and documented as specified in procedure TD-4180P- | |
| | | | 202. | |
| NOV | 1 | 1. Title 49 CFR §192.475(b) states: | PG&E's internal corrosion control standard, TD-4186S Section 1.2, published in July 2014, specifies the | TD-4186S.pdf |
| | | "Whenever any pipe is removed from a pipeline for any reason, the internal surface must be inspected for | | A-Form Job Aid.pdf |
| | | evidence of corrosion. If internal corrosion is found— | | 5MM A Form Internal Inspection_CONF.pdf |
| | | (1) The adjacent pipe must be investigated to determine the extent of internal corrosion; | out the Internal Inspection portion of the A-form whenever the inside surface of the steel pipe is visible, and also to | |
| | | (2) Replacement must be made to the extent required by the applicable paragraphs of §§192.485, 192.487, or | reinforce that all employees qualified for 03-05, ("Pipe Inspection"), are qualified to perform this inspection. This 5 | |
| | | 192.489; and | Minute Meeting was issued on August 10, 2015. Refer to the attached "5MM A Form Internal | |
| | | (3) Steps must be taken to minimize the internal corrosion." | Inspection_CONF.doc". | |
| | | The Division failed to provide internal corrosion inspection records for leak repair #1113214351 and | | |
| | | #1114200061. Please provide SED with the measures taken by PG&E to prevent this violation from recurring. | | |
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| Finding Type [Internal, NOV, AOC] | Finding # | Finding | Response | Associated Attachment (File Name) |
| NOV | | 2. Title 49 CFR §192.605(a) states in part: "General. 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 Standard O-16, Corrosion Control of Facilities dated March 2009 states in part: p.10, 6.A.3 CPA Restoration "If the CPA restoration work is (or is expected to be) over 30 days, the "CPA Follow-Up Action Plan" form (Attachment B) must be used and developed within 30 calendar days from the date the CPA is found below adequate levels of protection, as defined by the current 49 CFR 192, Subpart I." SED reviewed cathodic protection area (CPA) records and found that the Division did not develop a "CPA Follow Up Action Plan" within 30 calendar days from the date the CPA was found to have below adequate levels of protection at the following location listed in Table 2. Table 2: Late CPA Follow-Up Action Plans CPA Date Low CP discovered Date of Action Plan Interval (days) between dates 15B013A 5/14/2014 6/22/2015 404 | This CPA was first discovered "down" on 9/4/2013 and a paper version of the CPA Action Plan was initiated 11/8/2013 with monthly updates through 12/20/2014. SED notes a date of low CP discovered to be 5/14/2014 because the potentials had gone above -850mV in March 2014, however PG&E continued to take action throughout this period because the issue persisted. (See attached page 14 of "2013 2014 CPA 15B013 Annual Reports_CONF.pdf") Starting 4/1/2015, the CPA Action Plan was completed electronically in SAP. See page 3 of attached file "NOV-2 CPA 15B013_CONF.pdf". Sierra Divsion Corrosion Department continues to utilize SAP to update job status and to document CPA Action Plans. PG&E Bulletin, TD-4001B-003 (see attached) allows for the transition of paper documentation of maintenance to electronic, and CPA Action Plans are now documented electronically in SAP. | 2013 2014 CPA 15B013 Annual Reports_CONF.pdf NOV-2 CPA 15B013_CONF.pdf TD-4001B-003.pdf |
| NOV | | 3. Title 49 CFR §192.605(a) states in part: "General. 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 Utility Procedure, TD-4110P-21 Publication Date: 05/15/2013 states in part: "1.2 Perform monthly verification of calibration at least once per calendar month, and at intervals not exceeding 45 days. 1.3 Record all required calibration checks on Form TD-4110P-21-F01, "Monthly Verification of the Calibration of Combustible Gas Indicators (CGIs)." 1.4 IF a unit is not in use for a specific month because it is not in calibration or it is broken, THEN perform the following tasks: 1. Tag the unit "out of service" (OOS). 2. Record that the unit is OOS on Form TD-4110P-21-F01. 3. Record the OOS dates on the form." The Division failed to demonstrate it calibrated the following Combustible Gas Indicator (CGI) equipment per PG&E Utility Procedure, TD-4110P-21. Table 3: Missing Equipment Calibration Records PG&E Field Office Equipment Model Equipment Serial Missing Calibrations Marysville RGI-201 0937-059732 May through September 2015 Marysville RGI-201 1315-061235 May through September 2015 Marysville RGI-201 1315-061235 May through September 2015 Marysville RGI-201 124-061889 July 2015 Roseville RGI-201 10937-059734 August through September 2015 Roseville RGI-201 10937-059734 August through September 2015 Roseville RGI-201 124-061888 April through September 2015 Please provide SED with the measures taken by PG&E to prevent this violation from recurring. | A revision to TD-4110P-21 (see attached) was published on 9/23/2015 and has been reviewed by Sierra Division personnel responsible for performing calibration checks on CGIs. The procedure emphasizes the use of a monthly SAP notification to complete the instrument calibration verification and documentation, including documenting if the unit is Not in Use, Out of Service, or Out of Tolerance. | TD-4110P-21Sept 2015.pdf |

| nding Type ternal, V, AOC] | Finding # | • | Response | Associated Attachment (File Name) |
|-------------------------------------|-----------|---|---|--------------------------------------|
| NOV | 4 | 4. Title 49 CFR §192.805(b) states in part: | Starting in 2015, PG&E's Principal Program Manager for the Atmospheric Corrosion (AC) Program utilized PG&E's | |
| | | "Each operator shall have and follow a written qualification program. The program shall include provisions to: | third party qualification consultant, Veriforce, to require all AC Inspection contractors qualify and register for the Atmospheric Corrosion Inspection Operator Qualification task. The Principal Program Manager obtains lists of all | |
| | | (b) Ensure through evaluation that individuals performing covered tasks are qualified;" | contractor employee names and qualification expiration dates, and confirms with PG&E's two contractors, Alisto | |
| | | | Engineering and Underground Construction, that only contract employees are assigned work that are on the lists of | |
| | | SED reviewed qualification records for employees who performed atmospheric corrosion inspections. The | currently qualified workers. PG&E also utilizes a consultant to perform quality control assessments of the work | |
| | | Division failed to provide qualification records for Corrosion Control Task Code 03-04.00 Atmospheric Corrosion/Monitor for Southern Cross contractor employee Ken Farly. | performed by Alisto and Underground Construction. The quality control assessments include a verification of each AC inspector's OQ-qualification. The quality control assessments are submitted to PG&E's Principal Program | |
| | | Corrosion/Monitor for Southern Cross contractor employee Ken Farry. | Manager on a monthly basis for review and approval. Any issues with the quality of the AC inspections are | |
| | | Please provide SED with the measures taken by PG&E to prevent this violation from recurring. | immediately addressed with the AC inspection contractors. | |
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| Finding Type [Internal, NOV, AOC] Fin AOC | 2 | 2. Title 49 CFR §192.481(a) states: "Each operator must inspect each pipeline or portion of pipeline that is exposed to the atmosphere for evidence of atmospheric corrosion, as follows: If the pipeline is located: Then the frequency of inspection is: Onshore At least once every 3 calendar years, but with intervals not exceeding 39 months Offshore At least once each calendar year, but with intervals not exceeding 15 months" SED reviewed atmospheric corrosion records and identified approximately 483 locations where records indicated that facilities were not accessed due to locked gates or other circumstances. SED provided PG&E the locations via email on October 13, 2015. SED recommends the Division make prior arrangements to gain entry and inspect these locations on an interval not to exceed 39 months. Please provide SED with an update on how many of the 483 locations have been inspected for atmospheric corrosion, and a plan to inspect the remainder. | Response Please see the attached file "AOC-2 CGIs of 2014 AC Inspections_CONF.xIs" which lists the resolution of the 483 locations. Locations have been subsequently visited by a Gas Service Representative (GSR) and includes an AC inspection of the meter set, or confirmation that the meter set has been removed. One location, 546 Tudor Road, has yet to be accessed and inspected. Inspection is expected to be completed by the 2nd quarter, 2016. If PG&E is unable to gain access by the end of the 2nd quarter 2016, service to the customer will be terminated. PG&E's process for addressing atmospheric corrosion CGIs is described below. The same process applies to leak survey CGIs: When a CGI is encountered for AC inspections, the qualified inspector records the meter set as a CGI in his or her tablet device and moves on to the next meter. The CGIs are exported from the AC Inspection database and uploaded into the AMP database for a GSRs to perform the AC inspections. If the GSRs are unsuccessful, the AC CGI will go into the CGI tracker and appropriate steps are followed to try and gain access. These steps include calls during non-working hours and weekends, and leaving a CGI card door hanger for the resident to call into PG&E to schedule an appointment when resident is available to provide access to the meter set. If the CGI continues, the Centralized CGI Team (CCT) is contacted for assistance. The CCT will send a customer communication letter and notification using certified mail return receipt requested to the customer and property owner. If the CGI is not resolved within the compliance timeframe, Regulatory Compliance is notified and the CCT will work with the M&C supervisor to discontinue gas service. The CCT will send the customer an Interruption of Gas Service Notification. If needed, a crew will interrupt the gas service at the tee and the call center is notified to record the location and situation. A CGI card and letter are left at the door. | Associated Attachment (File Name) AOC-2 CGIs of 2014 AC Inspections_CONF.xIs |
|---|---|--|--|---|
| AOC | 2 | 2. Title 49 CFR §192.481(a) states: "Each operator must inspect each pipeline or portion of pipeline that is exposed to the atmosphere for evidence of atmospheric corrosion, as follows: If the pipeline is located: Then the frequency of inspection is: Onshore At least once every 3 calendar years, but with intervals not exceeding 39 months Offshore At least once each calendar year, but with intervals not exceeding 15 months" SED reviewed atmospheric corrosion records and identified approximately 483 locations where records indicated that facilities were not accessed due to locked gates or other circumstances. SED provided PG&E the locations via email on October 13, 2015. SED recommends the Division make prior arrangements to gain entry and inspect these locations on an interval not to exceed 39 months. Please provide SED with an update on how many of the 483 locations have been inspected for atmospheric corrosion, and a plan to inspect the remainder. | Please see the attached file "AOC-2 CGIs of 2014 AC Inspections_CONF.xls" which lists the resolution of the 483 locations. Locations have been subsequently visited by a Gas Service Representative (GSR) and includes an AC inspection of the meter set, or confirmation that the meter set has been removed. One location, 546 Tudor Road, has yet to be accessed and inspected. Inspection is expected to be completed by the 2nd quarter, 2016. If PG&E is unable to gain access by the end of the 2nd quarter 2016, service to the customer will be terminated. PG&E's process for addressing atmospheric corrosion CGIs is described below. The same process applies to leak survey CGIs: When a CGI is encountered for AC inspections, the qualified inspector records the meter set as a CGI in his or her tablet device and moves on to the next meter. The CGIs are exported from the AC Inspection database and uploaded into the AMP database for a GSRs to perform the AC inspections. If the GSRs are unsuccessful, the AC CGI will go into the CGI tracker and appropriate steps are followed to try and gain access. These steps include calls during non-working hours and weekends, and leaving a CGI card door hanger for the resident to call into PG&E to schedule an appointment when resident is available to provide access to the meter set. If the CGI continues, the Centralized CGI Team (CCT) is contacted for assistance. The CCT will send a customer communication letter and notification using certified mail return receipt requested to the customer and property owner. If the CGI is not resolved within the compliance timeframe, Regulatory Compliance is notified and the CCT will work with the M&C supervisor to discontinue gas service. The CCT will send the customer an Interruption of Gas Service Notification. If needed, a crew will interrupt the gas service at the tee and the call center is notified to record the location and | , |
| AOC | | | | |
| | | AOC 6.0 documented in CPUC's 2014 Sierra Division inspection letter. | | Paint Station MRB-73 ECTS401624.pdf L124B Pipeline Markers.pdf |
| AOC | | Roseville. Please provide the Division's plan for corrective action. | Anode wire for isolated steel riser located at, Roseville was been repaired on 2/24/2016. Pipe-to-Soil reading is still below adequate protection. Order 42639630 has been created to install anodes and restore adequate protection, with expected restoration in the 2nd quarter, 2016. | |
| AOC | 5 | , Roseville (see Figure 1 below). Please provide the Division's plan for corrective action. | A job has been initiated in local distribution engineering to relocate the gas service and meter set. Resolution is expected in the 4th quarter of 2016. In the interim, visits to inspect the site and confirm the gas facilities continued safe operation will be made in May and October 2016. | |