

**PACIFIC GAS AND ELECTRIC COMPANY
Gas Operations Data Response**

PG&E Data Request Index No.:	12851		
Request Date:	02-10-2019	Date Sent:	02-11-2019
Requesting Party:	NTSB		
External Requester:	Roger Evans	PG&E Contact:	Michael Lang

QUESTION 12851.01: GPS coordinate data for accident location.

RESPONSE 12851.01: The third-party dig-in occurred at approximately Northing: 2112998.08, Easting: 5996933.00. The coordinates are based on the California State Plane Coordinate System, Zone 3 and derived from Global Positioning System (GPS) Observations.

QUESTION 12851.02: Inspection/testing/leak history for the impacted pipelines(both 2-inch and 4-inch) segments. Including a summary of the Distribution Integrity Management Plan (DIMP) program for the affected segments.

RESPONSE 12851.02: The distribution assets in this area were last leak surveyed in April and May of 2018 and no leaks were found. The main segments involved in the third-party dig-in are assessed under PG&E's Distribution Integrity Management Program (DIMP).

QUESTION 12851.03: Map of gas pipeline installation for the impacted segments.

RESPONSE 12851.03: Please see attachment "[Index 12851-03_Parker and Geary Leak Sketch_CONF.pdf](#)" for the repair sketch of the impacted segments.

QUESTION 12851.04: Construction/installation work package for replacement of the damaged sections.

RESPONSE 12851.04: PG&E is compiling this information and will provide it as soon as possible.

QUESTION 12851.05: Third party one-call (811) tickets issued for the excavation.

RESPONSE 12851.05: Please see attachments "[Index 12851-05_USA X902101666](#)" and "[Index 12851-05_USA X902201229.pdf](#)" for the USA tickets issued for the excavation associated with the third-party dig at Geary and Parker.

QUESTION 12851.06: Photos – a sampling limited to 40 photos from the day of the accident to the day line was placed back into service.

RESPONSE 12851.06: Please see attachment "[Index 12851-06_Photos_CONF.zip](#)" containing the following photographs:

- SF Dig-in Photo Array with Timeline (including pre-incident Locate and Mark photos)
- DiRT (Dig-In Reduction Team) Investigation photos
- Post dig-in photos

QUESTION 12851.07: Scada system basic information; total staff, center location (city), controller on duty at the time, alarm event log for accident and a statement of the capabilities (monitoring vs. controlling).

RESPONSE 12851.07: PG&E's Gas Control Center at Bishop Ranch located in San Ramon features the dual asset SCADA system, Telvent. The Distribution SCADA system is comprised of 3,218 data points, 2,037 of which are providing live data to Gas Control via remote terminal units (RTU), and 1,181 ERX points that call in once a day to update, and again when a Hi-Hi, MOP or Lo-Lo alarm triggers the device to cry out. ERX trend data can be pulled from PI which is a redundant SCADA system typically used for in depth analysis and not active monitoring. The Distribution system is capable of monitoring the system only and provides no means of control to Gas Distribution Control Center (GDCC) Operators.

On a typical weekday, the GDCC is staffed with Leadership (Supervisors and Managers), Senior Distribution Gas System Operators, Planning Engineers, Communications Specialists, Clearance Coordinators. Additionally, the Gas Transmission Control Center (GTCC) is staffed with Supervisors, Gas System Coordinators, Gas System Operators, and Clearance Coordinators.

At the time of the dig-in at Geary and Parker, the Senior Distribution Gas System Operator on staff was Christina Rogers.

Note, there is no alarm event log associated with the third-party dig-in at Geary and Parker because pressure in the hydraulic independent system (HIS) never reached levels that would send an alarm to the GDCC.

QUESTION 12851.08: Aerial Google Earth-type document that depicts cross streets, 2-inch and 4-inch and excavation location.

RESPONSE 12851.08: Please see attachment "*Index 12851-08_Gas Incident Map_CONF.PDF*" for a map depicting cross streets, the 2-inch and 4-inch pipe, and the excavation location of the third-party dig-in at Geary and Parker.

QUESTION 12851.09: Any and all interview notes for interviews conducted by the PG&E Digin Reduction team.

RESPONSE 12851.09: Please see attachment "*Index 12851-09_PGE DiRT Investigation Narrative EMT 21439_CONF.pdf*" for a copy of PG&E's investigation narrative that includes interviews conducted by PG&E's Dig-in Reduction Team.

QUESTION 12851.10: Operating limit data (flow and pressure) for said gas system.

RESPONSE 12851.10: Please see also attachment "*Index 12851-10_RTU Trends 2.pdf*" for the hydraulic independent system (HIS) pressure data.

Gas system information:

- HIS Name – San Francisco HP
- MAOP – 60 psig
- Approximated pressure per Synergee Model at dig-in location – 46 psig

QUESTION 12851.11: Leak survey data for 2-inch and 4-inch segments.

RESPONSE 12851.11: The distribution assets in this area were last leak surveyed in April and May of 2018 and no leaks were found. Please see *"Index 12851-11_Leak Survey_CONF.pdf"* for copies the most recent one- and three-year leak survey data that include the 2-inch and 4-inch segments.

QUESTION 12851.12: Installation history for original 2-inch and 4-inch pipelines.

RESPONSE 12851.12: Please see attachment *"Index 12851-12_As-Builts_CONF.pdf"* for the as-built records for the 2-inch and 4-inch pipelines.

QUESTION 12851.13: Material specification for 4-inch and 2-inch affected pipelines.

RESPONSE 12851.13: Please see Response 12581.12.

QUESTION 12851.14: Photos of original installation (4-inch with 2-inch branch) if available.

RESPONSE 12851.14: Photos of the original installation (4-inch and 2-inch) are not available.

QUESTION 12851.15: Manufacturer's cut sheet of original 2-inch branch (if available).

RESPONSE 12851.15: Manufacturer cut sheets of the original 2-inch branch are not readily available.

QUESTION 12851.16: Requested Org Chart of Organization who maintains this line

RESPONSE 12851.16: Please see attachment *"Index 12851-16_GPOM SF Division Org Chart.pptx"* for a copy of the organization chart for the PG&E Gas Pipeline Operations and Maintenance (GPOM) San Francisco division, going up one level to Supervisor/Superintendent.

QUESTION 12851.17: Description of Maintenance Organization

RESPONSE 12851.17: The Gas Pipeline Operations and Maintenance (GPOM) organization is responsible for the maintenance and operations of the assets, including valves, regulators, and control equipment. During gas incidents, they help bring the gas incident under control and/or maintain the system safely while emergency repairs are being made.