

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



Pacific Gas & Electric Company
GAS (Corp ID 39)
Status of Advice Letter 4694G
As of February 10, 2023

Subject: Joint Advice Letter Documenting Research on Mercury Impacts of Southern California Gas Company, San Diego Gas & Electric Company, Pacific Gas and Electric Company, and Southwest Gas Corporation

Division Assigned: Energy

Date Filed: 12-28-2022

Date to Calendar: 01-06-2023

Authorizing Documents: D2012031

Disposition:	Accepted
Effective Date:	01-30-2023

Resolution Required: No

Resolution Number: None

Commission Meeting Date: None

CPUC Contact Information:

edtariffunit@cpuc.ca.gov

AL Certificate Contact Information:

Gary Lenart

(213) 244-2424

GLenart@socalgas.com

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



To: Energy Company Filing Advice Letter

From: Energy Division PAL Coordinator

Subject: Your Advice Letter Filing

The Energy Division of the California Public Utilities Commission has processed your recent Advice Letter (AL) filing and is returning an AL status certificate for your records.

The AL status certificate indicates:

- Advice Letter Number
- Name of Filer
- CPUC Corporate ID number of Filer
- Subject of Filing
- Date Filed
- Disposition of Filing (Accepted, Rejected, Withdrawn, etc.)
- Effective Date of Filing
- Other Miscellaneous Information (e.g., Resolution, if applicable, etc.)

The Energy Division has made no changes to your copy of the Advice Letter Filing; please review your Advice Letter Filing with the information contained in the AL status certificate, and update your Advice Letter and tariff records accordingly.

All inquiries to the California Public Utilities Commission on the status of your Advice Letter Filing will be answered by Energy Division staff based on the information contained in the Energy Division's PAL database from which the AL status certificate is generated. If you have any questions on this matter please contact the:

Energy Division's Tariff Unit by e-mail to
edtariffunit@cpuc.ca.gov



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Director
Regulatory Affairs

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December 28, 2022

Advice 6073-G

(Southern California Gas Company ID U 904-G)

Advice 3148-G

(San Diego Gas and Electric Company ID U 902-G)

Advice 4694-G

(Pacific Gas and Electric Company ID U 39-G)

Advice 1245-G

(Southwest Gas Corporation ID U 905-G)

Public Utilities Commission of the State of California

Subject: Joint Advice Letter Documenting Research on Mercury Impacts of Southern California Gas Company, San Diego Gas & Electric Company, Pacific Gas and Electric Company, and Southwest Gas Corporation

Purpose

Southern California Gas Company (SoCalGas), San Diego Gas & Electric Company (SDG&E), Pacific Gas and Electric Company (PG&E), and Southwest Gas Corporation (Southwest Gas) (collectively, the Joint Utilities), hereby submit this Advice Letter in compliance with direction provided by the Executive Director of the California Public Utilities Commission (CPUC or Commission) in their Letter Granting the Joint Utilities time to comply with Commission Decision (D.) 20-12-031 to update mercury constituent of concern Lower and Upper Action Limits (UAL/LAL) by January 1, 2022.

Background

Ordering Paragraph (OP) 11 of D.20-12-031 states that the Joint Utilities shall provide UAL/LAL specifications in a joint filing to be submitted to the Commission no later than April 1, 2021 for biologicals and January 1, 2022 for ammonia, mercury, and siloxanes. UAL/LAL of hydrogen will be established pursuant to Phase 4 of Rulemaking (R.) 13-02-008.

On December 21, 2021, pursuant to Rule 16.6 of the Commission's Rules of Practice and Procedure, the Joint Utilities filed a letter of extension to comply with OP 11 of D.20-12-031.

Specifically, the Joint Utilities requested this extension of time to update the mercury constituent of concern UAL/LAL until adequate research and/or operation data is available to support such limits.

On December 30, 2021, the Joint Utilities submitted their individual Advice Letters with rule modifications per OP 11 of D.20-12-031. The Advice Letters provided UAL/LAL specifications for ammonia and siloxanes but did not provide specifications for mercury due to inadequate research available. Instead, the Joint Utilities proposed to continue to monitor available literature and gather operational data to support a recommendation in the future.

On January 13, 2022, Executive Director Rachel Peterson granted the Joint Utilities' request to maintain the existing Trigger Level for mercury of 0.08 mg/m³ while continuing to monitor available literature and gather operational data to support a recommendation to update the UAL/LAL specifications for mercury once sufficient information is available. The letter also ordered until such time as sufficient information is available to update the UAL/LAL specifications for mercury, the Joint Utilities shall submit a Tier 1 Advice Letter on or before December 31 of each calendar year documenting research on mercury impacts on pipeline integrity. For calendar year 2021, the Advice Letter may be submitted on or before January 31, 2022.

The Joint Utilities described the latest research for calendar year 2021 in their respective Advice Letters submitted on December 30, 2021.¹ Pursuant to Executive Director Rachel Peterson's order, the Joint Utilities have included a description of their research as part of this Advice Letter.

Herein, the Joint Utilities describe their latest research on mercury impacts on pipeline integrity for calendar year 2022.

Research on Mercury Impacts on Pipeline Integrity for 2022

Industry research continues to be largely limited to the impact of mercury on infrastructure used for cryogenic operations, where liquefied natural gas equipment shows corrosion, such as brazed aluminum heat exchangers, and as a result a cryogenic limit for mercury was established at 10 ng/m³ (or 0.00001 mg/m³ for reference). It is important to note that cryogenic operations are not applicable to the Joint Utilities' service territories in California. Additionally, it is common practice by cryogenic operators to use mercury guard beds to protect equipment integrity from the risks that mercury poses.

The focus of the Joint Utilities is on the effects of mercury on the natural gas pipeline infrastructure and end-user equipment, rather than cryogenic operations. The following is a summary of the continuous efforts by the Joint Utilities to gain sufficient information to establish LAL/UAL specifications for mercury:

- SoCalGas has interconnected numerous renewable gas (RG) projects and collected operational data from a diverse mix of RG gas supplies including dairy, wastewater, and other organic sources. Gas quality in these projects has not shown mercury at a concentration exceeding the current Trigger Level, suggesting that mercury

¹ SoCalGas Advice 5920-G, SDG&E Advice 3050-G, PG&E Advice 4545-G, and Southwest Gas Advice 1197-G.

concentration at a level that would present an integrity concern is not a likely occurrence for these RG sources. In 2022, there were no mercury exceedances. Landfill RG projects, a likely source of mercury, are not currently interconnected to any of the Joint Utilities' gas systems to facilitate gaining operational experience or performing any field tests. Landfill projects are expected to interconnect within the next two to three years.

- SoCalGas is exploring the fabrication of corrosion coupons and their strategic placement at RG interconnections. The purpose is to enhance the collection of operational data and to continue monitoring the gas quality in these projects to confirm that they are below the current Trigger Level and do not present an integrity concern.
- SoCalGas and Southwest Gas have initiated a Gas Technology Institute (GTI) Energy OTD (7.23.k) for **Mercury Action Limits for RNG Specifications** with the Phase I objective of developing a test plan for lab testing at Southwest Research Institute (SwRI) leveraging the literature review on the impact of trace amounts of mercury in a gas stream on common materials of construction as well as impacts on equipment similar to that found in a natural gas distribution network and end use equipment; and the Phase II objective to conduct laboratory testing that could inform the selection of appropriate mercury trigger and action levels for natural gas distribution systems. Currently Phase I is fully funded and the project kick-off will be held first quarter of 2023.

In calendar year 2022, the Joint Utilities continued to seek developments in research on mercury impacts on pipeline integrity for calendar year 2022 and have initiated a proposed research project through GTI Energy to support a UAL/LAL recommendation. The Joint Utilities will continue to monitor available literature and gather operational data for the purpose of gaining sufficient information to update the UAL/LAL specifications for mercury

Protests

Anyone may protest this Advice Letter to the Commission. The protest must state the grounds upon which it is based, including such items as financial and service impact, and should be submitted expeditiously. The protest must be submitted electronically and must be received within 20 days after the date of this Advice Letter, which is January 17, 2023. Protests should be submitted to the attention of the Energy Division Tariff Unit at:

E-mail: EDTariffUnit@cpuc.ca.gov

The protest shall also be electronically sent to the Joint Utilities at the addresses shown below on the same date it is electronically delivered to the Commission:

For SoCalGas: Attn: Gary Lenart
Regulatory Tariff Manager
E-mail: GLenart@socalgas.com
E-mail: Tariffs@socalgas.com

For SDG&E: Attn: Greg Anderson
Regulatory Tariff Manager
E-mail: GAnderson@sdge.com
E-mail: SDGETariffs@sdge.com

For PG&E: Attn: Sidney Bob Dietz II
Director, Regulatory Relations
c/o Megan Lawson
E-mail: PGETariffs@pge.com

For SWG: Attn: Valerie J. Ontiveroz
Regulatory Manager/California
E-mail: Valerie.Ontiveroz@swgas.com
E-mail: regserve@swgas.com

Effective Date

SoCalGas asserts this Advice Letter is subject to Energy Division disposition and should be classified as Tier 1 (effective pending disposition) pursuant to General Order (GO) 96-B. SoCalGas respectfully requests that it be made effective for service on December 28, 2022, which is the date this Advice Letter was submitted.

Notice

A copy of this Advice Letter is being sent to SoCalGas' GO 96-B service list and the Commission's service list in R.13-02-008. Address change requests to the GO 96-B service list should be directed via e-mail to Tariffs@socalgas.com or call 213-244-2837. For changes to all other service lists, please contact the Commission's Process Office at 415-703-2021 or via e-mail at Process_office@cpuc.ca.gov.

/s/ Joseph Mock
Joseph Mock
Director – Regulatory Affairs



ADVICE LETTER SUMMARY

ENERGY UTILITY



MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No.:

Utility type:

ELC GAS WATER
 PLC HEAT

Contact Person:

Phone #:
E-mail:
E-mail Disposition Notice to:

EXPLANATION OF UTILITY TYPE

ELC = Electric GAS = Gas WATER = Water
PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #:

Tier Designation:

Subject of AL:

Keywords (choose from CPUC listing):

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #:

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL:

Summarize differences between the AL and the prior withdrawn or rejected AL:

Confidential treatment requested? Yes No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required? Yes No

Requested effective date:

No. of tariff sheets:

Estimated system annual revenue effect (%):

Estimated system average rate effect (%):

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected:

Service affected and changes proposed¹:

Pending advice letters that revise the same tariff sheets:

¹Discuss in AL if more space is needed.

Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this submittal, unless otherwise authorized by the Commission, and shall be sent to:

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102
Email: EDTariffUnit@cpuc.ca.gov

Name:
Title:
Utility Name:
Address:
City: State:
Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

Name:
Title:
Utility Name:
Address:
City: State:
Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

**PG&E Gas and Electric
Advice Submittal List
General Order 96-B, Section IV**

AT&T
Albion Power Company

Alta Power Group, LLC
Anderson & Poole

Atlas ReFuel
BART

Barkovich & Yap, Inc.
Braun Blaising Smith Wynne, P.C.
California Cotton Ginners & Growers Assn
California Energy Commission

California Hub for Energy Efficiency
Financing

California Alternative Energy and
Advanced Transportation Financing
Authority
California Public Utilities Commission
Calpine

Cameron-Daniel, P.C.
Casner, Steve
Center for Biological Diversity

Chevron Pipeline and Power
City of Palo Alto

City of San Jose
Clean Power Research
Coast Economic Consulting
Commercial Energy
Crossborder Energy
Crown Road Energy, LLC
Davis Wright Tremaine LLP
Day Carter Murphy

Dept of General Services
Don Pickett & Associates, Inc.
Douglass & Liddell
Dish Wireless L.L.C.

East Bay Community Energy Ellison
Schneider & Harris LLP
Engineers and Scientists of California

GenOn Energy, Inc.
Goodin, MacBride, Squeri, Schlotz &
Ritchie
Green Power Institute
Hanna & Morton
ICF

iCommLaw
International Power Technology
Intertie

Intestate Gas Services, Inc.

Johnston, Kevin
Kelly Group
Ken Bohn Consulting
Keyes & Fox LLP
Leviton Manufacturing Co., Inc.

Los Angeles County Integrated
Waste Management Task Force
MRW & Associates
Manatt Phelps Phillips
Marin Energy Authority
McClintock IP
McKenzie & Associates

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

Redwood Coast Energy Authority
Regulatory & Cogeneration Service, Inc.

Resource Innovations

SCD Energy Solutions
San Diego Gas & Electric Company

SPURR
San Francisco Water Power and Sewer
Sempra Utilities

Sierra Telephone Company, Inc.
Southern California Edison Company
Southern California Gas Company
Spark Energy
Sun Light & Power
Sunshine Design
Stoel Rives LLP

Tecogen, Inc.
TerraVerde Renewable Partners
Tiger Natural Gas, Inc.

TransCanada
Utility Cost Management
Utility Power Solutions
Water and Energy Consulting Wellhead
Electric Company
Western Manufactured Housing
Communities Association (WMA)
Yep Energy