

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



Pacific Gas & Electric Company
ELC (Corp ID 39)
Status of Advice Letter 6124E
As of April 21, 2021

Subject: Information-Only Submittal - Frequency Deviations Report for the Period February 23, 2020 through February 22, 2021 Pursuant to Resolution E-4898 Ordering Paragraph 4 and PG&E Advice Letter 5336-E-A

Division Assigned: Energy

Date Filed: 03-22-2021

Date to Calendar: 03-24-2021

Authorizing Documents: E-4898

Disposition:	Accepted
Effective Date:	03-22-2021

Resolution Required: No

Resolution Number: None

Commission Meeting Date: None

CPUC Contact Information:

edtariffunit@cpuc.ca.gov

AL Certificate Contact Information:

Stuart Rubio

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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- Disposition of Filing (Accepted, Rejected, Withdrawn, etc.)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

March 22, 2021

Advice 6124-E

(Pacific Gas and Electric Company U 39 E)

Public Utilities Commission of the State of California

Subject: Information-Only Submittal - Frequency Deviations Report for the Period February 23, 2020 through February 22, 2021 Pursuant to Resolution E-4898 Ordering Paragraph 4 and PG&E Advice Letter 5336-E-A

Purpose

Pacific Gas and Electric Company (PG&E) submits this Tier 1 advice letter (AL) to report the system frequency events for the period from February 23, 2020 through February 22, 2021, pursuant to Ordering Paragraph 4 of Resolution E-4898¹ (Resolution) and PG&E commitments made in Advice Letter 5336-E-A.²

Background

On September 22, 2011, the California Public Utilities Commission (Commission or CPUC) initiated Rulemaking (R.) 11-09-011 to review and, if necessary, revise the rules and regulations governing the interconnection of generation and storage facilities to the electric distribution systems of the investor-owned utilities (IOUs). The IOUs' rules and regulations pertaining to the interconnection of generating facilities are set forth in the Electric Rule 21 Tariff. A large subset of the generating resources interconnecting to the utility grid via Rule 21 produce direct current (DC) power that requires an inverter to convert the DC to the alternating current (AC) of the utilities' distribution systems.

¹ "Resolution E-4898. Approval, with Modifications, of Request for Modifications to Electric Rule 21 Tariff to Incorporate Smart Inverter Phase 3 Advanced Functions in Compliance with Decision 16-06-052" can be found at:

<http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M213/K658/213658887.PDF>

² **AL 5336-E-A** "Supplemental: Reporting Methodology Proposal to Monitor The Frequency And Duration of Frequency Events Pursuant to Resolution E-4898 as a Part of Electric Rule 21 Phase 3 Smart Inverter Functionality" submitted July 25, 2018, approved November 14, 2018 and made effective October 19, 2018. This supplemental advice letter replaced the original advice letter, 5336-E, in its entirety.

In early 2013, to take advantage of the advancing inverter technical capabilities, a Smart Inverter Working Group (SIWG) was established to discuss and develop various implementation proposals among interested stakeholders. In March 2016, the SIWG completed its first set of recommendations for the Phase 3 advanced functions.

On August 18, 2017, PG&E submitted AL 5129-E³.

On April 26, 2018, the CPUC issued Resolution E-4898 approving AL 5129-E addressed certain Phase 3 smart inverter issues.

In addition, a specific smart inverter featured addressed by the Resolution is Frequency watt functionality. As described in the Resolution:

“Frequency Watt Mode: As a system-wide parameter, frequency is affected by all devices connected to the electric power system. High frequency events are often a sign of too much power in the grid and vice versa. Frequency Watt Mode is one method for countering these events, which is accomplished by reducing power in response to rising frequency or vice versa.”

In the Resolution’s discussion of the Frequency Watt mode (also referred to as Function 5), the CPUC calls out a sub-issue on “*Whether to Require IOU Reporting on Impact of Function 5.*”

The CPUC notes that it sees “no need to track the impacts to all individual DERs as initially intended by the Draft Resolution. The impact is expected to be de minimis and reporting on all individual DERs would create unnecessary burden on all parties.”

However, the CPUC continues with:

“...will continue to monitor grid frequency going forward. Because frequency events are generally infrequent events, it is feasible for the IOUs to monitor the number of events per year and report to the Commission on their duration and estimated impact on DER customers. In addition, given that the IOUs have storage assets themselves and there are a collection of Commission-approved programs which support DERs, we find it feasible to monitor the impact of activating Function 5 on a set of DER customers and/or use IOU-operated resources as a proxy for determining impact.”⁴

³ AL 5129-E “Modifications to PG&E’s Electric Rule 21 Tariff and Interconnection Agreements and Forms to Incorporate Smart Inverter Phase 3”

https://www.pge.com/tariffs/assets/pdf/adviceletter/ELEC_5129-E.pdf

⁴ Resolution, Page 23

Accordingly, the CPUC in the Resolution goes on to order:

3. Pacific Gas and Electric, Southern California Edison, and San Diego Gas & Electric shall develop reporting methodology to monitor the frequency and duration of frequency events and, in consultation with the Commission’s Energy Division, shall each file a Tier 1 Advice Letter on the proposed methodology no later than 90 days after the effective date of this Resolution.

4. Pacific Gas and Electric, Southern California Edison, and San Diego Gas & Electric shall each file quarterly reports via Tier 1 information-only Advice Letter for one year starting three months after the mandatory activation of Function 5 on frequency events with the methodology approved by the Tier 1 Advice Letters from Ordering Paragraph 3, and following the completion of the quarterly reports, shall file annual reports on frequency events via Tier 1 information-only Advice Letter. No sooner than five years after the activation of Function 5, the IOUs may file proposals via Tier 2 Advice Letter on whether to continue or modify the reporting requirement.⁵

Advice Letter 5336-E-A Proposed the following:

To satisfy the requirements of Ordering Paragraph 3, PG&E proposes to monitor system frequency data at one of its substations. PG&E will monitor the data and report the count of instances where continuous system frequency events had the potential to reduce output of smart inverters with activated frequency/watt as follows:

PG&E will count the instances where the smart inverter output would:

Increase or reduce output by as a percentage of nameplate	for what duration:
up to 5%	5 minutes
up to 15%	1 minute
up to 30%	1 minute
greater than 30%	1 minute

Further, when PG&E or a set of DER customers install smart inverters with the capabilities of providing frequency/watt reporting information, PG&E will use that information in conjunction with its system frequency information to serve as a proxy for the impacts of DER output production. Currently, smart inverters do not have the capability, nor is it planned in the near future to log when certain modes are activated and to estimate the curtailment amount. The IOUs encourage manufacturers to consider adding this functionality.

Based on the Edward Randolph, Director of the California Public Utility Commission’s Energy Division, July 11, 2018, email confirming that, pursuant to Resolutions E-4832

⁵ Resolution, Page 50

and E-4898, Phase 2 requirements and Functions 1, 5, 6, and 8 of Phase 3 will become mandatory for generating facilities utilizing inverter-based technologies for which an interconnection request is submitted on or after February 22, 2019, PG&E proposes the following schedule for reporting pursuant to Ordering Paragraph 4:

Quarter Ends	Report	Tier 1 AL with Report due
May 22, 2019	1st Report	June 22, 2019
August 22, 2019	2nd Report	September 22, 2019
November 22, 2019	3rd Report	December 22, 2019
February 22, 2020	4th Report	March 22, 2020

Following the completion of the quarterly reports, PG&E proposes to submit annual reports on frequency events via Tier 1 information-only Advice Letter, which will be combined with the February 22 4th quarter report on March 20, 202, and each year on March 22, thereafter, until after five years, PG&E or the other utilities may submit a proposal (via Tier 2 Advice Letter) to continue or modify the reporting requirement.

Since the first year of quarterly reports have been all been submitted as of March 22, 2020, with this report PG&E will now begin submitting annual reports on frequency events via Tier 1 information-only Advice Letter, submitted each year on March 22, and thereafter, for five years..

Annual Reporting Period ends	Report	Tier 1 AL with Report due
February 23, 2020 - February 22, 2021	5th Report	March 22, 2021

This Advice Letter is for the 5th report indicated above.

Frequency Report

PG&E includes the report on the template as Attachment A: Frequency Reporting Template In Compliance With Resolution E-4898. This annual report covers the one-year period from February 23, 2020, to February 22, 2021.

Protests

This is an information-only advice letter submittal. Pursuant to General Order 96-B Section 6.2, PG&E is not seeking relief through this advice letter and is not subject to protest.

Effective Date

Pursuant to Ordering Paragraph 4 of Resolution E-4898, PG&E requests that this Tier 1 information-only advice letter become effective upon date of submittal, which is **March 22, 2021**.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and the parties on the service lists for **R.11-09-011 and R.17-07-007**. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter filings can also be accessed electronically at: <http://www.pge.com/tariffs/>

_____/S/

Erik Jacobson
Director, Regulatory Relations

Attachments

cc: Service Lists R.11-09-011 and R.17-07-007

Frequency Reporting Template in Compliance of Resolution E-4898

Utility Name	Pacific Gas & Electric		
Reporting Period	Start Date	End Date	
Report Issued Date	2/23/2020	2/22/2021	
	3/17/2021		

Frequency Reporting Ranges					
Range Level	High Frequency (Hz) Low End	High Frequency (Hz) High End	Low Frequency (Hz) Low End	Low Frequency (Hz) High End	Duration Time (Minutes)
Frequency Range 1	60.036	<60.136	59.864<	59.964	5
Frequency Range 2	60.136	<60.336	59.664<	59.864	1
Frequency Range 3	60.336	<60.636	59.364<	59.664	1
Frequency Range 4	60.636	No Limit	0	59.364	1

Event #	Event Date	Event Start Time	Event End Time	Time (Minutes)			
				Frequency Range 1	Frequency Range 2	Frequency Range 3	Frequency Range 4
#1	2/24/2020	4:45:17 PM	4:51:34 PM	6.28-Low			
#2	2/26/2020	3:45:17 PM	3:51:51 PM	6.57-Low			
#3	3/11/2020	6:03:01 AM	1:08:17 PM	5.27-Low			
#4	3/15/2020	12:04:44 PM	7:16:06 PM	11.37-High			
#5	3/21/2020	4:21:02 PM	11:26:14 PM	5.2-Low			
#6	3/22/2020	8:23:29 AM	3:32:03 PM	8.57-High			
#7	3/25/2020	3:14:29 PM	3:20:35 PM	6.1-Low			
#8	3/26/2020	5:46:30 PM	5:52:35 PM	6.08-Low			
#9	3/27/2020	3:00:23 PM	3:08:31 PM	8.13-High			
#10	3/28/2020	4:39:45 PM	4:45:09 PM	5.4-Low			
#11	4/2/2020	12:33:33 AM	12:38:55 AM	5.37-High			
#12	4/5/2020	11:33:02 AM	11:38:27 AM	5.42-Low			
#13	4/14/2020	4:54:27 PM	4:59:48 PM	5.35-Low			
#14	4/17/2020	5:59:35 PM	6:05:37 PM	6.03-High			
#15	4/21/2020	7:48:00 PM	7:53:16 PM	5.27-Low			
#16	4/26/2020	4:06:51 PM	4:15:24 PM	8.55-Low			
#17	4/26/2020	4:53:01 PM	4:59:08 PM	6.12-Low			
#18	4/29/2020	4:58:05 PM	5:05:04 PM	6.98-High			
#19	4/30/2020	3:08:27 PM	3:14:28 PM	6.02-Low			
#20	5/1/2020	10:08:16 AM	10:13:27 AM	5.18-Low			
#21	5/1/2020	10:25:08 AM	10:33:35 AM	8.45-High			
#22	5/1/2020	10:39:01 AM	10:52:31 AM	13.5-Low			
#23	5/2/2020	6:18:59 PM	6:26:13 PM	7.23-Low			
#24	5/12/2020	9:37:55 PM	9:47:01 PM	9.1-High			
#25	5/17/2020	4:34:51 PM	4:40:35 PM	5.73-Low			
#26	5/23/2020	2:03:44 PM	2:08:57 PM	5.22-High			
#27	5/26/2020	9:19:07 PM	9:30:24 PM	11.28-High			
#28	5/29/2020	7:47:06 AM	7:54:05 AM	6.98-Low			
#29	5/29/2020	8:40:41 AM	8:45:42 AM	5.02-Low			
#30	5/30/2020	4:55:40 PM	5:01:01 PM	5.35-High			
#31	5/31/2020	6:23:07 PM	6:28:44 PM	5.62-High			
#32	6/2/2020	7:52:26 AM	7:58:35 AM	6.15-Low			
#33	6/2/2020	10:13:35 AM	10:19:26 AM	5.85-Low			
#34	6/3/2020	10:14:49 PM	10:23:28 PM	8.65-High			
#35	6/4/2020	11:44:06 AM	11:49:20 AM	5.23-Low			
#36	6/5/2020	11:41:51 AM	11:48:32 AM	6.68-Low			
#37	6/5/2020	3:57:14 PM	4:02:33 PM	5.32-High			
#38	6/5/2020	11:13:04 PM	11:18:44 PM	5.67-Low			
#39	6/7/2020	8:30:48 AM	8:42:11 AM	6.98-Low			
#40	6/13/2020	9:46:40 PM	9:53:41 PM	7.02-High			
#41	6/28/2020	10:21:40 PM	10:30:02 PM	8.37-High			
#42	7/4/2020	9:30:16 AM	9:44:18 AM	14.03-Low			
#43	7/5/2020	11:05:35 PM	11:17:40 PM	12.08-High			
#44	7/11/2020	9:09:16 AM	9:15:23 AM	6.12-Low			
#45	7/12/2020	12:00:01 AM	12:05:38 AM	5.62-Low			
#46	7/13/2020	9:05:54 PM	9:12:39 PM	6.75-Low			
#47	7/14/2020	11:29:25 AM	11:36:18 AM	6.88-Low			
#48	7/30/2020	5:47:35 PM	5:53:20 PM	5.75-Low			
#49	8/3/2020	3:01:17 PM	3:07:06 PM	5.82-High			
#50	8/10/2020	7:22:34 PM	7:41:02 PM	18.47-High			
#51	8/10/2020	7:44:14 PM	7:51:36 PM	7.37-High			
#52	8/13/2020	1:16:00 PM	1:22:36 PM	6.6-Low			
#53	8/14/2020	9:46:02 AM	9:51:47 AM	5.75-Low			
#54	8/14/2020	8:35:06 PM	8:41:00 PM	5.9-High			
#55	8/15/2020	10:59:51 AM	11:04:59 AM	5.13-Low			
#56	8/15/2020	6:04:30 PM	6:10:18 PM	5.8-Low			
#57	8/18/2020	1:58:09 PM	2:07:14 PM	9.08-High			
#58	8/19/2020	2:24:59 PM	2:30:23 PM	5.4-Low			
#59	8/27/2020	12:04:46 PM	12:14:34 PM	9.8-Low			
#60	8/28/2020	3:54:11 PM	4:05:57 PM	11.77-High			
#61	8/28/2020	4:27:19 PM	4:45:37 PM	18.3-Low			
#62	9/1/2020	3:59:59 AM	4:08:17 AM	8.3-Low			
#63	9/1/2020	4:15:50 AM	4:22:15 AM	6.42-High			
#64	9/2/2020	12:00:34 AM	12:06:49 AM	6.25-Low			
#65	9/4/2020	6:36:15 PM	6:48:01 PM	11.77-High			
#66	9/4/2020	6:50:29 PM	6:57:24 PM	6.92-High			
#67	9/5/2020	8:00:45 PM	8:08:26 PM	7.68-High			
#68	9/6/2020	5:47:50 PM	5:57:32 PM	9.7-Low			
#69	9/6/2020	6:13:58 PM	6:19:49 PM	5.85-Low			
#70	9/6/2020	6:34:29 PM	6:39:41 PM	5.2-Low			
#71	9/6/2020	6:48:25 PM	7:08:56 PM	20.52-High			
#72	9/6/2020	7:32:22 PM	7:39:01 PM	6.65-High			
#73	9/8/2020	2:49:33 AM	2:56:52 AM	7.32-High			
#74	9/11/2020	12:58:03 AM	1:04:21 AM	6.3-High			
#75	9/14/2020	2:34:24 PM	2:42:29 PM	8.08-Low			

#76	9/17/2020	1:04:33 PM	1:12:54 PM	8.35-Low			
#77	9/17/2020	1:48:07 PM	1:53:10 PM	5.05-Low			
#78	9/26/2020	10:05:42 PM	10:12:47 PM	7.08-Low			
#79	9/28/2020	7:54:18 AM	8:00:01 AM	5.72-High			
#80	9/29/2020	6:04:15 PM	6:19:04 PM	14.82-High			
#81	9/29/2020	7:59:32 PM	8:07:48 PM	8.27-Low			
#82	10/6/2020	10:37:38 AM	10:43:10 AM	5.53-Low			
#83	10/6/2020	5:15:52 PM	5:21:47 PM	5.92-Low			
#84	10/8/2020	5:25:01 PM	5:30:39 PM	5.63-Low			
#85	10/9/2020	4:37:32 PM	4:43:27 PM	5.92-Low			
#86	10/10/2020	4:43:46 PM	4:52:08 PM	8.37-Low			
#87	10/14/2020	12:50:31 PM	12:57:54 PM	7.38-Low			
#88	10/17/2020	4:14:54 PM	4:20:33 PM	5.65-Low			
#89	10/17/2020	4:23:19 PM	4:28:45 PM	5.43-Low			
#90	10/17/2020	7:38:11 PM	7:43:48 PM	5.62-High			
#91	10/20/2020	11:58:22 PM	12:08:35 AM	10.22-Low			
#92	10/22/2020	4:42:36 PM	4:49:04 PM	6.47-Low			
#93	10/24/2020	9:28:47 AM	9:40:01 AM	11.23-High			
#94	10/26/2020	12:12:09 PM	12:18:30 PM	6.35-High			
#95	10/28/2020	4:41:42 PM	4:53:40 PM	11.97-Low			
#96	10/28/2020	5:01:02 PM	5:07:47 PM	6.75-Low			
#97	10/29/2020	8:31:50 AM	8:38:45 AM	6.92-High			
#98	11/1/2020	10:30:18 AM	10:35:55 AM	5.62-High			
#99	11/3/2020	3:17:28 PM	3:25:31 PM	8.05-Low			
#100	11/4/2020	6:03:17 AM	6:08:55 AM	5.63-High			
#101	11/4/2020	3:48:56 PM	3:55:47 PM	6.85-Low			
#102	11/5/2020	11:56:42 AM	12:09:16 PM	12.57-Low			
#103	11/7/2020	4:40:28 PM	4:46:34 PM	6.1-Low			
#104	11/8/2020	11:41:45 AM	11:48:44 AM	6.98-Low			
#105	11/8/2020	11:50:41 AM	11:55:45 AM	5.07-High			
#106	11/8/2020	2:54:00 PM	3:00:48 PM	6.8-Low			
#107	11/11/2020	3:51:59 PM	3:57:15 PM	5.27-Low			
#108	11/14/2020	3:37:02 PM	3:45:30 PM	8.47-Low			
#109	11/15/2020	3:48:46 PM	3:55:42 PM	6.93-Low			
#110	11/18/2020	3:47:21 PM	3:54:41 PM	7.33-Low			
#111	11/27/2020	3:40:45 PM	3:53:08 PM	12.38-Low			
#112	12/1/2020	3:49:50 PM	3:57:58 PM	8.13-Low			
#113	12/4/2020	3:47:59 PM	3:53:34 PM	5.58-Low			
#114	12/7/2020	6:00:44 AM	6:05:58 AM	5.23-Low			
#115	12/10/2020	11:53:07 AM	11:59:04 AM	5.95-High			
#116	12/15/2020	4:15:52 PM	4:23:19 PM	7.45-Low			
#117	12/16/2020	5:34:47 AM	5:40:29 AM	5.7-Low			
#118	12/20/2020	3:47:00 PM	3:57:40 PM	10.67-Low			
#119	12/23/2020	3:36:41 PM	3:56:29 PM	19.8-Low			
#120	12/27/2020	3:20:45 PM	3:25:50 PM	5.08-Low			
#121	12/29/2020	1:32:59 PM	1:42:47 PM	9.8-High			
#122	1/16/2021	3:50:43 PM	3:59:38 PM	8.92-Low			
#123	1/25/2021	4:48:13 PM	4:53:38 PM	5.42-Low			
#124	1/29/2021	11:00:50 AM	11:07:33 AM	6.72-Low			
#125	1/31/2021	7:41:18 AM	7:46:38 AM	5.33-High			
#126	2/3/2021	4:36:02 PM	4:41:52 PM	5.83-Low			
#127	2/4/2021	4:22:00 PM	4:32:58 PM	10.97-Low			
#128	2/4/2021	4:34:29 PM	4:41:12 PM	6.72-Low			
#129	2/5/2021	4:16:27 PM	4:30:15 PM	13.8-Low			
#130	2/5/2021	4:48:51 PM	4:57:03 PM	8.2-Low			
#131	2/6/2021	4:12:49 AM	4:19:58 AM	7.15-Low			
#132	2/6/2021	4:39:17 PM	4:44:28 PM	5.18-Low			
#133	2/8/2021	3:31:02 PM	3:38:17 PM	7.25-Low			
#134	2/8/2021	4:30:01 PM	4:44:38 PM	14.62-Low			
#135	2/16/2021	4:31:43 PM	4:39:07 PM	7.4-Low			
#136	2/20/2021	1:51:34 PM	1:56:55 PM	5.35-High			



ADVICE LETTER SUMMARY

ENERGY UTILITY



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

Company name/CPUC Utility No.: Pacific Gas and Electric Company (U 39 E)

Utility type:

- ELC GAS WATER
 PLC HEAT

Contact Person: Stuart Rubio

Phone #: (415) 973-4587

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: SHR8@pge.com

EXPLANATION OF UTILITY TYPE

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

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 6124-E

Tier Designation: 1

Subject of AL: Information-Only Submittal - Frequency Deviations Report for the Period February 23, 2020 through February 22, 2021 Pursuant to Resolution E-4898 Ordering Paragraph 4 and PG&E Advice Letter 5336-E-A

Keywords (choose from CPUC listing): Compliance

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: Res. E-4898

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: No

Summarize differences between the AL and the prior withdrawn or rejected AL: N/A

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: 3/22/21

No. of tariff sheets: 0

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

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: N/A

Service affected and changes proposed¹: N/A

Pending advice letters that revise the same tariff sheets: N/A

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: Erik Jacobson, c/o Megan Lawson
Title: Director, Regulatory Relations
Utility Name: Pacific Gas and Electric Company
Address: 77 Beale Street, Mail Code B13U
City: San Francisco, CA 94177
State: California Zip: 94177
Telephone (xxx) xxx-xxxx: (415)973-2093
Facsimile (xxx) xxx-xxxx: (415)973-3582
Email: PGETariffs@pge.com

Name:
Title:
Utility Name:
Address:
City:
State: District of Columbia Zip:
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.
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
Cenergy Power
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

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

GenOn Energy, Inc.
Goodin, MacBride, Squeri, Schlotz &
Ritchie

Green Power Institute
Hanna & Morton
ICF

IGS Energy
International Power Technology
Intestate Gas Services, Inc.
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
McKenzie & Associates

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

Office of Ratepayer Advocates
OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Redwood Coast Energy Authority
Regulatory & Cogeneration Service, Inc.
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
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