

Exhibit No.: \_\_\_\_\_  
Application: A.22-09-  
Witness: N. Jonathan Peress  
Chapter: 14

**PREPARED DIRECT TESTIMONY OF N. JONATHAN PERESS**  
**ON BEHALF OF SOUTHERN**  
**CALIFORNIA GAS COMPANY AND SAN DIEGO**  
**GAS & ELECTRIC COMPANY**  
  
(LONG-TERM POLICY AND ENERGY TRANSITION)

September 30, 2022

## TABLE OF CONTENTS

	<u>Page</u>
I. PURPOSE.....	3
II. OVERVIEW OF THE ENERGY TRANSITION AND ITS IMPLICATIONS TO COST ALLOCATION.....	3
III. HIGH-LEVEL GAS SYSTEM CHARACTERISTICS; OPERATING AND DESIGN PHILOSOPHY .....	5
IV. HISTORICAL OBSERVATIONS AND FORECASTED TRENDS .....	8
V. EVOLUTION OF RATEMAKING .....	12
VI. QUALIFICATIONS .....	18

**CHAPTER 14**

**PREPARED DIRECT TESTIMONY OF N. JONATHAN PERESS**

**(LONG-TERM POLICY AND ENERGY TRANSITION)**

1 **I. PURPOSE**

2 The purpose of this direct testimony on behalf of Southern California Gas Company  
3 (SoCalGas) and San Diego Gas & Electric Company (SDG&E) (jointly, Applicants) is to  
4 introduce and discuss important long-range trends in California energy markets, their  
5 significance and relationship to cost allocation and rate design for natural gas in California, and  
6 the need to begin consideration of long-term ratemaking reform. This testimony serves to  
7 support several important proposals within this cost allocation proceeding application, including:

- 8 • Introducing the Balancing Plus Storage Function
- 9 • Application of Attrition Year Revenue Requirement
- 10 • Enhancing the Residential Fixed Customer Charge for SoCalGas
- 11 • Making balancing account treatment for noncore throughput permanent

12 While many of these changes are incremental in magnitude, they represent a first step  
13 along a path of more fundamental ratemaking evolution which is needed to support equity and  
14 affordability as California’s energy landscape transitions toward carbon neutrality.

15 **II. OVERVIEW OF THE ENERGY TRANSITION AND ITS IMPLICATIONS TO**  
16 **COST ALLOCATION**

17 California is facing the ambitious goal of economy-wide carbon neutrality by 2045 or  
18 sooner and has adopted a suite of policies designed to advance this goal. Many of these policies  
19 are the impetus for significant changes, such as the Renewable Portfolio Standard (RPS) driving  
20 the integration of renewables into the State’s electric generation portfolio. There remain many  
21 unknowns, however, about the exact timing and path of the energy transition. The current policy

1 landscape clearly indicates significant changes to the way Californians use energy, and  
2 SoCalGas is actively studying and monitoring this evolution.

3 While uncertainty remains about the exact path California will take, SoCalGas recognizes  
4 it is probable that two segments of natural gas customers may potentially face substantial change  
5 – dispatchable electric generation (DEG) and core<sup>1</sup> (mainly residential and commercial  
6 buildings).

7 Today, California substantially relies on natural gas fired DEG to balance its electric grid  
8 – a role that will likely persist through the energy transition.<sup>2,3,4</sup> This role will evolve, however,  
9 as fuel-based electric generation is displaced by increasing amounts of solar, wind and other  
10 renewables to meet RPS goals. While this is likely to result in less natural gas being used by the  
11 DEG segment over the course of a year, fuel-based DEG will remain an important resource for  
12 providing electricity when variable renewables are not available, meaning that peak DEG load  
13 may likely persist or grow and overall DEG usage pattern could become more volatile, less

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<sup>1</sup> Core Customers (SoCalGas and SDG&E) All residential customers; all commercial and industrial customers with average usage less than 20,800 therms per month who typically cannot fuel switch. Also, those commercial and industrial customers (whose average usage is more than 20,800 therms per year) who elect to remain a core customer receiving bundled gas service from the LDC.

<sup>2</sup> Natural gas made up 50.2% of in-state generation and 37.9% of California’s total power mix in 2021; see California Energy Commission, *2021 Total System Electric Generation* (2021), available at: <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2021-total-system-electric-generation>.

<sup>3</sup> Analyses such as those conducted by the CPUC’s Energy Division related to I.17-02-002 project growing peak demand for electric generation, see CPUC, *Aliso OII I.17-02-002: Workshop 3 Input Data Development and Capacity Studies* (July 28, 2020) at Slides 29-32, available at: [https://www.cpuc.ca.gov/-/media/cpuc-website/files/uploadedfiles/cpucwebsite/content/news\\_room/newsupdates/2020/session-4-hydraulic-modeling-updates-2020-workshop-3-slide-deck-final.pdf](https://www.cpuc.ca.gov/-/media/cpuc-website/files/uploadedfiles/cpucwebsite/content/news_room/newsupdates/2020/session-4-hydraulic-modeling-updates-2020-workshop-3-slide-deck-final.pdf);

<sup>4</sup> See California Energy Commission, *Final 2021 Integrated Energy Policy Report Volume III: Decarbonizing the State’s Gas System* (March 2022) at 24-26, available at: <https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2021-integrated-energy-policy-report>.

1 predictable, and have a greater influence over peak natural gas system design conditions and  
2 accordingly, costs.

3 At the same time, decarbonization goals will accelerate energy efficiency and support  
4 fuel substitution for natural gas end uses in the core building segment, a prospective trendline  
5 that as discussed in the Long-term Gas Reliability and Planning Proceeding (Gas Planning OIR;  
6 R.20-01-007), is expected to accelerate over time. This is likely to result in further decline in  
7 overall gas volumes delivered to our core customers – the segment which currently contributes  
8 the majority of SoCalGas’ revenue requirement, and prospectively, a reduction in core customer  
9 count. These issues combined, among other trends and factors, create the impetus for an evolved  
10 approach to natural gas and clean fuels in California – from a system design, financial, and rate  
11 reform perspective – which is the subject of the Gas Planning OIR currently in Track 2 at the  
12 CPUC.

13 While the Gas Planning OIR expressly identifies “Gas Revenues and Rate Design” as  
14 issues which will be addressed in Track 2b of that proceeding, SoCalGas and SDG&E find it  
15 timely and appropriate to introduce some initial concepts in this cost allocation proceeding  
16 application, with the intent to build upon them in the Gas Planning OIR and subsequent  
17 proceedings, as appropriate.

18 **III. HIGH-LEVEL GAS SYSTEM CHARACTERISTICS; OPERATING AND**  
19 **DESIGN PHILOSOPHY**

20 California’s natural gas system is currently relied upon to provide flexibility, reliability,  
21 and resiliency to the overall energy needs of the state – a role which is ever evolving. At a  
22 fundamental, physical level, the gas system is designed to receive gas supply ratably, that is in a  
23 uniform and consistent flow over the course of each day, and seasonally. This is generally how  
24 the controlling commercial standards in the gas industry provide for ratable supply transactions

1 from production through to burner tip. As an example, SoCalGas' Tariff Rule 30,  
2 "Transportation of Customer-Owned Gas," states, "The gas to be transported hereunder shall be  
3 delivered and redelivered as nearly as practicable at uniform hourly and daily rates of flow."<sup>5</sup>  
4 Customer usage of gas, on the other hand, does fluctuate over the course of each day and the  
5 year, depending on the type of customer. This inherent mismatch between supply and demand  
6 patterns is resolved by physically exercising the gas system – using line pack (e.g., the volume of  
7 gas contained in transmission pipelines that makes up the difference between maximum, normal,  
8 and minimum operating pressures), and to a larger degree on the SoCalGas and SDG&E  
9 transmission system, underground storage. These resources are inherently limited and require  
10 active management to ensure they are optimally developed and deployed.

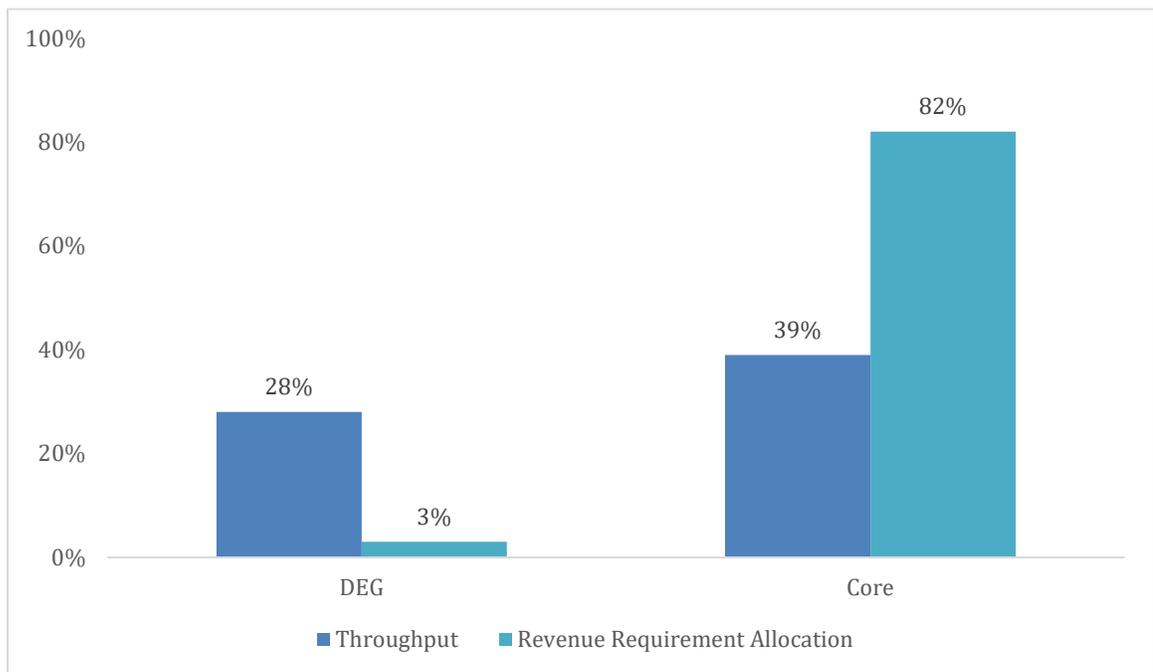
11 Historically and fundamentally, the natural gas system's primary purpose is to deliver  
12 fuel to core customers for heating and other applications. Delivering this "essential service"<sup>6</sup> has  
13 always required a robust and flexible system to manage significant, but relatively predictable,  
14 winter load peaking driven by core customer demand for heating fuel. While this core load does  
15 range widely between summer and winter months, these demand trends are relatively known,  
16 understood, and predictable based on their dependence on temperature. This predictability has  
17 allowed the natural gas industry to develop technologies and best practices over the course of  
18 decades to manage and design for these core-driven demand fluctuations reliably and cost-  
19 effectively.

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<sup>5</sup> SoCalGas, *Rule No. 30 – Transportation of Customer Owned Gas* (Effective September 1, 2020) at Sheet 2, available at: <https://tariff.socalgas.com/regulatory/tariffs/tm2/pdf/30.pdf>.

<sup>6</sup> PUC § 328(a).

1 Natural gas-fired generation has played an important and growing role in California's  
2 energy mix since the mid-20<sup>th</sup> century. Over time, natural gas fired electric generators have  
3 become a major customer segment on the natural gas system, accounting for around 28% of  
4 overall SoCalGas system throughput forecast underlying 2022 rates. In contrast, DEG customers  
5 only contribute around 3% of SoCalGas' revenue requirement in the same period. By way of  
6 comparison, core customers account for around 39% of overall SoCalGas system throughput and  
7 contribute around 82% of SoCalGas' revenue requirement. Figure [1] below illustrates the costs  
8 paid for by core and DEG customers relative to their respective throughput.<sup>7</sup>



9  
10 *Figure 1 - Comparison of Throughput and Revenue Allocation between core and DEG customer*  
11 *groups.*

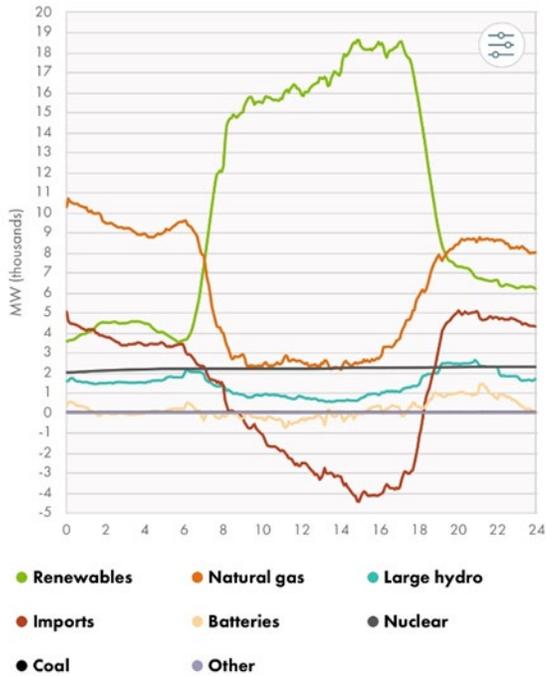
<sup>7</sup> See Table 1 of Chapter 13 (Sharim Chaudhury).

1 DEG are relied upon to balance the electric grid as variable renewable resources, such as  
2 wind and solar, play a growing role in the electric supply portfolio. Today, we are already  
3 observing substantial changes in natural gas system utilization driven by these DEG customers,  
4 and importantly, their demand profile is more volatile and less predictable than traditional,  
5 weather-dependent core load patterns which historically have been a primary basis for system  
6 design. Serving this evolving DEG load pattern presents a significant challenge for natural gas  
7 utilities, and we expect this volatility and challenge to grow in both absolute and proportionate  
8 terms as California undergoes an energy transition to meet carbon neutrality goals.

#### 9 **IV. HISTORICAL OBSERVATIONS AND FORECASTED TRENDS**

10 As discussed above, under the SoCalGas tariff and gas market design the gas system  
11 would ratably receive and deliver gas from suppliers to end users. Managing deviations from  
12 this uniform flow require infrastructure and operating solutions. Traditionally, the predominant  
13 driver of deviation from this uniform flow is seasonal variation in demand due to high heating  
14 fuel demand during the winter. This is a well understood concept which, is relatively predictable  
15 (based on weather forecasts) and gradual, and gas distribution system design principles have  
16 been developed over more than a century to reliably provide this service. DEG loads, in  
17 contrast, are becoming increasingly volatile and abrupt, and much more challenging to predict  
18 than weather-dependent heating loads.

19 It is important to consider the unique and valuable role the gas system provides in  
20 delivering fuel to enable the flexible dispatch of electric generation in California. This value  
21 serves the public in two opposite but important ways – flexing down to accommodate the  
22 maximization of variable renewable generation and flexing up to maintain electrical services  
23 when renewables are diminishing or not available and when electric demand grows. Examples  
24 of this flexibility are provided in the Figures below sourced from CAISO.



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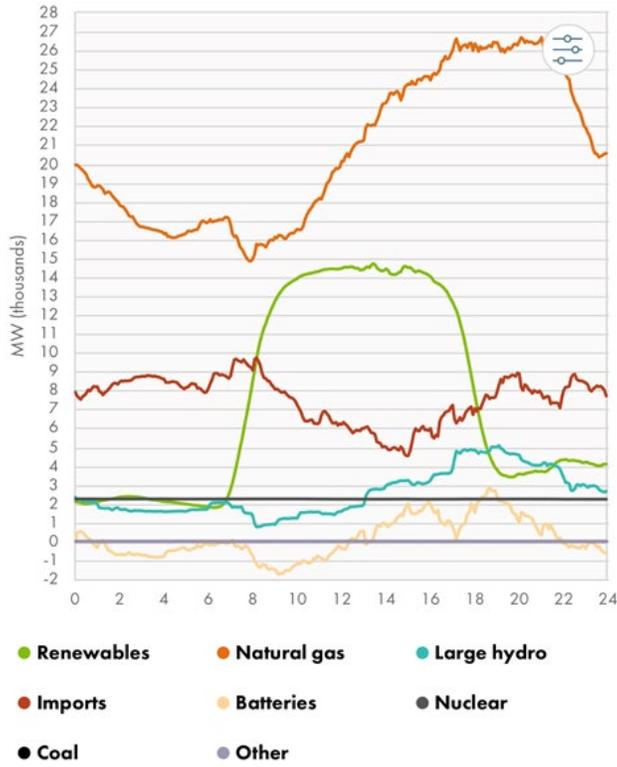
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*Figure 2 - CAISO Supply Chart for April 30, 2022. Notably, it was claimed that 99.87% of load was served by renewables on this day at 2:50 pm<sup>8</sup>, and natural gas generators flexed down to accommodate this milestone.<sup>9</sup>*

<sup>8</sup> Desert Sun, *California just shy of 100% powered by renewables for first time* (May 1, 2022), available at: <https://www.desertsun.com/story/news/environment/2022/05/01/california-100-percent-powered-renewables-first-time/9609975002/>.

<sup>9</sup> Accessed on August 4, 2022 on the CAISO “ISO Today” application.



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2 *Figure 3 - CAISO Supply chart for September 6, 2022. This chart illustrates a high-demand day*  
 3 *where dispatchable natural gas-fired generation was relied on to meet peak electric demand*  
 4 *and maintain service when renewable resources were diminished.<sup>10</sup>*

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Today, in absolute terms, the winter peak on SoCalGas’ system is driven by core customer segment heating fuel demand; however, as fuel substitution transpires and gas loads are transitioned to being served by the electric grid, today’s core gas load will continue, at least in part, to be served by gas utilities, just indirectly as DEG load. This electrification of heating loads, as well as other loads such as mobility sector energy needs, will contribute to increases in demand for DEG, especially on a peak hourly basis. Over time, depending on the degree of fuel substitution that occurs, the winter DEG load could become a proportionately larger contributor

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<sup>10</sup> Accessed on September 23, 2022 on the CAISO “ISO Today” application.

1 to peak gas system design conditions – and may even become the largest contributing segment.<sup>11</sup>  
2 Importantly, as this transition occurs where winter gas load shifts from direct core markets to  
3 DEG markets, a new variable will become a more prominent contributor to overall load shape –  
4 variable renewable production. While renewable generation can have some elements of  
5 predictability, it also adds complexity and anomalies, such as cloud cover or wildfire smoke and  
6 ash, which can add major variability that will substantially (but not exclusively) fall upon the  
7 natural gas system to manage. This variable balancing service was not envisioned in the original  
8 physical design of the gas system or the current philosophies underlying cost allocation and  
9 ratemaking.

10 While much uncertainty remains about how and when this transition will take place, there  
11 is growing consensus around the directionality of these changes. SoCalGas will continue to  
12 develop and refine projections and monitor actual trends to inform subsequent proceedings. It is  
13 timely here in this cost allocation proceeding application to acknowledge the need for an  
14 evolved, long-term approach for natural gas ratemaking to deliver sustainable and equitable  
15 outcomes for all stakeholders, and to support the relatively incremental measures, as listed above

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<sup>11</sup> See, e.g., Gas System Planning OIR Track 1B Workshop, (July 21, 2020) Comments of Dr. Arne Olson of E3 (“The real question will be [] the average daily throughput being reduced and the average gas generation being reduced by 2030. It doesn’t necessarily mean that the peak use of natural gas for electric generation is going to decrease. And I would expect to see [] that as heating loads in California are electrified, that we might actually see increased gas use during wintertime peak. And since the infrastructure really needs to be sized based on peak use not based on average use, I think it does raise some important questions about how to [] make sure that infrastructure is funded and is in place when we really need it, even as we expect the average use of it to decline over time due to carbon policies.”)

1 and discussed below, proposed in this cost allocation proceeding application which appropriately  
2 begin to provide some relief and risk management.<sup>12</sup>

### 3 **V. EVOLUTION OF RATEMAKING**

4 As discussed, California has embraced long-term environmental goals which are likely to  
5 change the way consumers use energy. Trends are emerging which suggest that core and DEG  
6 gas usage will change significantly, and this evolution will have material implications on the  
7 natural gas system, including system design and ratemaking principles.

8 Today, one fundamental concept underlying ratemaking for gas utilities is cost causation.  
9 This concept aims to align costs incurred by utilities with the customer groups who are causing  
10 those costs to arise. For example, the medium pressure distribution network generally exists to  
11 provide delivery service to smaller residential and commercial customers who are interconnected  
12 with it. As a result, the recovery of costs associated with the medium pressure distribution  
13 network is substantially targeted toward those customer segments rather than customers who  
14 typically take service at a transmission level and use less of the medium pressure distribution  
15 network. As we consider costs associated with gas system components that provide services to  
16 multiple customer groups, such as transmission and storage facilities, cost allocation based on

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<sup>12</sup> Although relevant market restructuring topics were not addressed by the Commissions in Track 1 of the Gas Planning OIR, SoCalGas continues to observe and express the need for rate design and other tariff reforms that will better align gas commercial and rate practices with the fuel requirements and usage patterns of the DEG segment to avoid causing or exacerbating any cross-subsidy from other gas customer segments. While important, we believe this topic needs to be addressed holistically in a venue with the capacity to address both rate design and other commercial issues. SoCalGas respectfully suggests that the public interest and state decarbonization goals requires these issues to be thoroughly considered in a meaningful and focused way, such as by the Commission in Track 2b of the Gas Planning OIR.

1 cost causation becomes more complicated. This complexity is compounded by the differences in  
2 the tariffed level of service reliability distinctions as between core and noncore<sup>13</sup> customers.

3 In D.92-12-058, the Commission implemented the long run marginal cost methodology,  
4 which is still relied on, in principle, for ratemaking today. This methodology included adoption  
5 of Marginal Demand Measures (MDM). These MDMs represent a combination of the multiple  
6 types of peak demand that the utility systems are designed to serve,<sup>14</sup> and allow for the  
7 attribution of costs between customer classes for given assets depending on the respective usage  
8 of those assets by each customer class under the relevant MDM. In essence, these MDMs allow  
9 for a simplified, relatively equitable approach to approximating the proportion of a functional  
10 system category a given customer segment is causing the costs of, and therefore should have  
11 responsibility to pay.

12 While this approach makes implementation of ratemaking simpler and has been a 30-year  
13 precedent in California, it was established in an era when “SoCalGas had installed electronic  
14 metering for only half of its noncore customers,”<sup>15</sup> and “The UEG [utility electric generation]  
15 load...are identified by the respondents as likely bypass targets,”<sup>16</sup> and “The utilities [had] very  
16 limited hourly load data, little knowledge of specific demand forecasts prepared by their own  
17 electric departments, and make no adjustments to reflect the effects of weather and electric  
18 generating unit outages.”<sup>17</sup>

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<sup>13</sup> See SoCalGas Tariff Rule 23 for description of “Continuity of Service and Interruption of Delivery”,  
available at: <https://tariff.socalgas.com/regulatory/tariffs/tm2/pdf/23.pdf>.

<sup>14</sup> D.92-12-058 at 21.

<sup>15</sup> *Id.* at 12.

<sup>16</sup> *Id.* at 13

<sup>17</sup> *Id.* at 13.

1           Although we are still facing uncertainty, and increasingly so the farther we project into  
2 the future, we are in a more informed and different position today than we were in 1992 with  
3 regard to understanding actual customer usage patterns and how they impact design and  
4 operating conditions. Energy markets have also experienced dramatic changes since 1992,  
5 including important factors like the shale gas revolution and significant renewable electric  
6 generation adoption, both of which have influenced natural gas' role in electric generation. For  
7 example, although the coincidental winter peak on our system is still predominantly driven by  
8 core customer load, when we review the number of high-flow hours on our system over the  
9 course of a year<sup>18</sup>, these high-flow hours were attributed to DEG more than four times as often as  
10 they were core customers in 2020. This relationship begs the important question of how  
11 substantially the DEG segment is contributing to the design conditions and operational cost  
12 drivers of the gas system, and therefore cost causation and ultimately cost allocation, in  
13 proportion to other users of the gas system. Furthermore, this analysis highlights how DEG  
14 customers can exercise the natural gas system in a way that is not easily forecasted or well  
15 reflected in MDMs that focus on totalized daily, seasonal, or annual usage.

16           While the high-flow hours example above provides a meaningful illustration of the way  
17 DEGs use the gas system, it only represents a snapshot in time, which is influenced by factors  
18 like weather and other resource availability. Similarly, demand forecasting presented in the  
19 California Gas Report and utilized in this cost allocation proceeding only provides a limited set  
20 of scenarios, which are premised on policy ambitions around both customer demand modifiers

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<sup>18</sup> Hours which exceed 100,000 Dth/hr of flow, approximately equivalent to supply capacity in 2020 (2400 MMcfd), meant to demonstrate periods where gas demand exceeds import capacity and inherently relies on tools like line pack and storage withdrawal. It is important to note that significant demand reductions, such as DEGs ramping down, similarly require these tools to keep the system in balance and within safety constraints.

1 (such as energy efficiency and fuel substitution) and electric portfolio development and  
2 optimization. As we think about the long-term need for rate reform and market restructuring, it  
3 will be important to develop additional scenarios that will support overall energy system  
4 resiliency and reliability under extreme demand conditions, including discounting some of these  
5 demand modifiers, and accounting for contingencies in the current and expected deployment and  
6 availability of resources like batteries and electric import capacity. Forecasts may also not  
7 sufficiently capture the extent of electrification of both natural gas and other (e.g., gasoline and  
8 diesel fueled vehicles) end-uses (primarily to be met through variable renewable generation), and  
9 therefore may understate the need for DEG to maintain grid stability and meet peak demand.  
10 Similarly, near-term forecasts may not fully express the impacts of additional solar resources  
11 which can continue to more fully displace DEG load in the middle of the day, causing more  
12 extreme morning demand ramp-down and afternoon demand ramp-up – factors which in turn tax  
13 the natural gas system and need to be appropriately accounted for in cost allocation and rate  
14 design.

15 In this 2024 cost allocation proceeding application, the cost causation and long-run  
16 marginal cost principles established in 1992 are largely adhered to; however, we are proposing  
17 some relatively incremental, but meaningful changes which begin to address these trends. First,  
18 we are introducing a Balancing Plus storage function, which can provide our customers  
19 additional options for balancing their gas loads and will reallocate a portion of storage costs to  
20 this function to better reflect the actual use of these assets. More can be found on this in the  
21 testimony of Manuel Rincon and Jimmy Yen (Chapter 1). Second, we are proposing to include  
22 transmission and storage functional categories when incorporating post-Test Year attrition in

1 years 2025-2027. More can be found on this in the testimony of Frank Seres (Chapter 8) and  
2 Sharim Chaudhury (Chapter 13).

3 Another concept proposed in the cost allocation proceeding application which is  
4 unrelated to cost allocation but relevant to the long-term energy transition issues discussed in this  
5 chapter, and important to support equitable outcomes for core customers, is the enhanced  
6 residential fixed charge discussed further in the testimony of Sharim Chaudhury (Chapter 13).  
7 This enhanced fixed charge will help to remedy the inherent cost shift as some customer loads  
8 begin to shift away from gas service via fuel substitution (e.g., appliance electrification), and for  
9 customers who partially electrify promotes paying a fair share of the fixed costs associated with  
10 maintaining their gas service. The income-based, two-tier fixed charge aligned with CARE  
11 program qualifications being proposed in this cost allocation proceeding application will not only  
12 ensure that low-volume customers pay a fair share of the fixed costs of service while still  
13 preserving conservation price signals associated with non-baseline rates but will also provide  
14 relative price relief for low-income customers.

15 Another concept which is well aligned with state policy and has been supported by the  
16 Commission in past cost allocation proceeding decisions<sup>19</sup> is the continuation of 100% balancing  
17 treatment of noncore throughput. SoCalGas again requests that the current provisions contained  
18 in the Noncore Fixed Cost Account (NFCA) tariff preliminary statement, which provides 100%  
19 balancing account treatment for noncore throughput is maintained, and that this treatment be  
20 made permanent in this cost allocation proceeding. It is highly unlikely that the policies of the  
21 state around decoupling gas revenues from sales will change, and this balanced treatment is of

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<sup>19</sup> *Including, but not limited to:* D. 20-02-045 at 106 (OP 19), and D.16-10-004 (2016 TCAP Final Decision) Attachment A at A-7.

1 great value and importance considering the energy transition and market dynamics discussed in  
2 the testimony.

3 Finally, I would reiterate that these are incremental, first steps which can be reasonably  
4 taken within the context of historical ratemaking precedents and principles. More novel  
5 approaches to ratemaking, including concepts like value-based and beneficiary-pays ratemaking,  
6 could merit further consideration. Additionally, consideration around shifting away from long  
7 run marginal cost approaches for ratemaking (i.e., using embedded costs to determine rates  
8 across functional cost categories) likely has increasing merit. Marginal costs are relevant when  
9 considering the costs of service for a normally growing business. The growth in new natural gas  
10 services in California is expected by many to decelerate into the future, challenging the merits of  
11 this ratemaking approach. Similarly, and perhaps more materially, the elimination of line  
12 extension allowances as directed in Decision (D.)22-09-026 of the Building Decarbonization  
13 OIR (R.19-01-11) will substantially reduce the capital cost component associated with long run  
14 marginal cost analysis, further dissociating this methodology from the actual cost of service.  
15 Shifting to a more universal embedded cost approach to ratemaking would better align natural  
16 gas rates with Commission policy, help to make cost allocation more uniform and comparable  
17 between functional cost categories and customer segments, and smooth some of the cyclical cost  
18 shifts associated with developing and updating rates differently between embedded and long run  
19 marginal costs between and during cost allocation proceeding periods. This approach has been  
20 suggested in the scoping of the Gas Planning OIR (Track 2b) but has yet to be addressed.

21 We look forward to exploring more substantial changes in other venues, such as Track 2b  
22 of the Gas Planning OIR (R.20-01-007) or other special-purpose ratemaking proceedings.

23 This concludes my prepared direct testimony.

1 **VI. QUALIFICATIONS**

2 My name is Naim Jonathan Peress. My business address is 555 West Fifth Street, Los  
3 Angeles, California 90013-1011. For the past two years, I have been employed by Southern  
4 California Gas Company (“SoCalGas”) as Senior Director of Business Strategy & Energy Policy  
5 where I lead SoCalGas’s decarbonization strategy planning and relevant energy policy  
6 engagement, with the goal of advancing the imperative for reducing GHGs and achieving carbon  
7 neutrality.

8 I have more than 25 years’ experience and understanding of electricity and natural gas  
9 markets, state and federal utility regulation of those markets, and environmental and climate  
10 change policy. This experience began in 1994 when I spent five years first as the Legal Counsel  
11 for the Air Quality Division of the Vermont Agency of Natural Resources, then as the Director  
12 of Administrative Litigation where I regularly appeared and practiced before the Vermont Public  
13 Service Commission. I subsequently spent almost two years as the Director of Environmental  
14 Services for NRG Energy, with responsibility for development and implementation of emissions  
15 compliance strategies for a fleet of approximately twenty power plants. Prior to joining  
16 SoCalGas, I served as Senior Director of Energy Markets and Utility Regulation for the  
17 Environmental Defense Fund (EDF) for five years. During that time, I worked closely with  
18 federal agencies and state public utility commissions on issues related to wholesale and retail  
19 energy regulation, focusing on natural gas and electric system coordination issues.

20 I recently filed testimony before the CPUC as the climate witness in SoCalGas’s 2024  
21 General Rate Case. Over the years, I have appeared on topics relevant to emissions and energy  
22 infrastructure matters before the Vermont Public Service Commission and New York Public  
23 Service Commission. More recently, I appeared and presented testimony on natural gas

1 infrastructure and climate policy before the US Senate Energy and Natural Resources Committee  
2 and the US House Energy and Commerce Committee, Energy Subcommittee.

3 I graduated in 1984 from Long Island University with a Bachelor of Science in  
4 Management and in 1991 from Brooklyn Law School with a juris doctor degree.