Docket: Exhibit Number	: <u>A.12-04-024</u> : <u>DRA-01</u>
Commissioner	: Peterman
ALJ	: <u>Mason</u>
Witness	: <u>Karle</u>



DIVISION OF RATEPAYER ADVOCATES CALIFORNIA PUBLIC UTILITIES COMMISSION

# Report on the Application of Southern California Gas Company to Establish a Biogas Conditioning and Upgrading Services Tariff

San Francisco, California February 22, 2013

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#### 1 I. INTRODUCTION AND BACKGROUND

2 This exhibit presents the analysis and recommendations of the Division of 3 Ratepayer Advocates (DRA) regarding the Southern California Gas Company's 4 (SoCalGas) Application (A.)12-04-024, the Application of Southern California Gas 5 Company to Establish a Biogas Conditioning and Upgrading Tariff (Application). The 6 Application, filed on April 25, 2012, seeks authorization for a new biogas 7 conditioning and upgrading tariff to serve non-residential customers who wish to 8 upgrade raw biogas to biomethane. DRA developed this analysis pursuant to the 9 Ruling and Scoping memo of the Assigned Commissioner and Administrative Law 10 Judge issued on December 28, 2012. 11 SoCalGas proposes to build, own, operate and maintain biogas conditioning 12 and upgrading equipment on customer premises in order to upgrade raw biogas to 13 biomethane suitable for pipeline injection or for on-site use. SoCalGas has identified 14 a number of potential customer classes producing sufficient raw biogas to require 15 upgrading services; such as dairy farms, wastewater treatment plants, landfill 16 diversion, and food/green waste producers.<sup>1</sup> 17 SoCalGas' Opening Testimony states that it seeks to provide such services in response to customer demand and inquiries.<sup>2</sup> SoCalGas claims that the proposed 18 19 tariff supports state policy in regard to environmental and Renewable Portfolio 20 Standard (RPS) goals, and that these environmental benefits to ratepayers justify 21 the proposed tariff program.<sup>3</sup> SoCalGas claims that the tariff is designed to capture 22 and recover all costs associated with provision of the upgrading and conditioning service and that as such there would be no net increase in rates.<sup>4</sup> SoCalGas claims 23

that they intend to reimburse any embedded ratepayer funded resources used in

<sup>&</sup>lt;sup>1</sup> SoCalGas Opening Testimony, Chapter II, pp. 6, 8-9.

<sup>&</sup>lt;sup>2</sup> SoCalGas Opening Testimony, Chapter I, pp. 2, 12-13.

<sup>&</sup>lt;sup>3</sup> Attachment 1, DRA Data Request 1, Question 1.

<sup>&</sup>lt;sup>4</sup> SoCalGas Opening Testimony, Chapter II, pp. 3, 11-12.

1	nrovidina	the tariff and that the risk to ratepayers is minimal. <sup>5</sup> SoCalGas did not elect
2		st funding for the proposed Biogas Conditioning and Upgrading services
2	•	is 2012 General Rate Case (GRC). At this time there is no Sempra affiliate
4		g to provide this conditioning service. Neither authorized base margin nor
5		base rates in the GRC Application include the proposed tariff.
6	•	he Scoping Ruling identified 11 factual and legal issues for resolution in this
7		ng, as follows:
8	•	Should the Commission grant approval to SoCalGas to establish a
o 9	•	
		biogas conditioning and upgrading services tariff?
10	•	Should an unregulated affiliate subject to the Commission's
11		adopted affiliate transaction rule be approved to establish a biogas
12		conditioning upgrading services tariff?
13	•	How does SoCalGas' proposed tariff affect market competition?
14	•	Is it beneficial and useful for SoCalGas to provide biogas
15		conditioning and upgrading services to its customers?
16	•	Are there any environmental benefits and environmental costs of
17		the biogas conditioning and upgrading services?
18	•	Are any of these environmental benefits unique to SoCalGas'
19		offering?
20	•	Will the biogas conditioning and upgrading services aid in obtaining
21		California environmental goals, including its Renewables Portfolio
22		Standard (RPS) goals?
23	•	What will be the risks to ratepayers if the instant Application is
24		granted?
25	•	What will be the benefits to ratepayers if the instant Application is
26		granted?
27	•	What will be the risks to shareholders if the instant Application is
28		granted?

<sup>&</sup>lt;sup>5</sup> Attachment 1, DRA Data Request 1, Question 10.

1	What will be the benefits to shareholders if the instant Application is
2	granted? <sup>6</sup>
3	Further, the Scoping Ruling identified the following issues raised in DRA's
4	protest as within the scope of the proceeding:
5	<ul> <li>What is the impact on this Application of the Commission's alleged</li> </ul>
6	rejection of SoCalGas' request in Advice Letter (AL) 4172 to
7	provide biogas conditioning?
8	<ul> <li>Are there any differences between the instant Application and the</li> </ul>
9	biogas conditioning program that SoCalGas has before the
10	Commission in the San Diego Gas & Electric Company (SDG&E)
11	and SoCalGas General Rate Case Test Year 2012 (Applications
12	A.10-12-005/006)?
13	<ul> <li>Is the instant Application related to the SoCalGas Application 11-</li> </ul>
14	11-011 (Natural Gas Compression Service Tariff) and the
15	SoCalGas AL 4337 (Compression Services Agreement with Los
16	Angeles Unified School District)? If so, how will the decisions in
17	these related cases affect the outcome of the instant Application? <sup>7</sup>
18	Finally, the scoping memo requested that testimony address the impact of AB
19	1900 and the associated Rulemaking on the Application. Consistent with the
20	Scoping Ruling, DRA's report addresses herein each of the issues identified
21	above.
22	

<sup>&</sup>lt;sup>6</sup> A.12-04-024 Scoping Ruling; p. 3. <sup>7</sup> Ibid. p.4.

## 1 II. SUMMARY OF DRA RECOMMENDATIONS AND FINDINGS

2	The following summarizes DRA's recommendations:
3	1. DRA recommends that the Commission deny SoCalGas'
4	Application without prejudice to the utility providing such service
5	through an unregulated Sempra affiliate.
6	2. Should the Commission choose to allow SoCalGas to enter
7	directly into this market, DRA recommends that any resulting
8	program be subject to the ratepayer protections outlined in
9	section H of this report, including the following:
10	1. Any investments made through the Tariff should be
11	excluded from ratebase.
12	2. Tariff customers should bear all costs and all risks arising
13	from the tariff, and non-participating ratepayers should
14	not bear any cost or risk.
15	<ol><li>SoCalGas should be required to establish balancing and</li></ol>
16	tracking accounts consistent with those required in D.12-
17	12-037 to ensure that non-participating ratepayers do not
18	subsidize the program.
19	4. The Commission should put in place other protections
20	against anti-competitive behavior on SoCalGas' part
21	consistent with those in D.12-12-037.
22	DRA's analysis of SoCalGas' A.12-04-024 shows:
23	<ol> <li>SoCalGas has failed to meet its burden of proving any</li> </ol>
24	substantive ratepayer benefit resulting from the proposed tariff.
25	2. SoCalGas' market power in any unregulated and competitive
26	energy or gas related market is potentially substantial, and as
27	such any proposal by the utility to enter such markets should be
28	subject to a high level of scrutiny. Should a monopoly utility wish
29	to enter such a market the appropriate way to do so is through
30	an unregulated affiliate.

1	3.	The e	conomics of biogas production are uncertain, the industry
2		faces	challenges finding a sustainable business model, and the
3		potent	ial for project failure is substantial.
4	4.	The so	ble beneficiary of the proposed tariff is SoCalGas
5		sharel	nolders, while the majority of the proposal's risk accrues to
6		ratepa	yers.
7	5.	Enteri	ng into the business of gas processing opens SoCalGas
8		to the	potential for substantial liability in the event contaminants
9		enter	he gas stream. In such an event SoCalGas as the
10		condit	ioner would be responsible to SoCalGas as the gas
11		delive	rer for the contaminants. SoCalGas as the gas deliverer is
12		the en	tity responsible for setting standards for gas injected into
13		the pip	peline. SoCalGas ratepayers could face limited recourse in
14		seekir	g compensation for damage to pipeline integrity,
15		custor	ner premise appliances, or customer health.
16	6.	SoCal	Gas refers to the ratemaking proposed in the Application
17		as "tra	ditional utility ratemaking."8 As the proposed tariff is
18		outsid	e of SoCalGas core distribution business and as
19		SoCal	Gas has failed to meet the burden of showing any
20		ratepa	yer interest served by the tariff this ratemaking treatment
21		is not	appropriate.
22		a.	It is not appropriate for SoCalGas to recover in rates at
23			any point any costs associated with the proposed tariff.
24		b.	It is not appropriate for SoCalGas to use any level of
25			uncompensated ratepayer funded utility staff or assets.
26		C.	It is not appropriate that compensation for ratepayer
27			resources used in provision of the tariff be rolled into
28			existing balancing accounts. Further, a two way
29			balancing account is not appropriate as the account

<sup>&</sup>lt;sup>8</sup> Attachment 3, DRA Data Request 3, Question 6.

1	exists solely to compensate ratepayers for use of
2	embedded resources.
3	

#### 1 III. DISCUSSION

2 3

# A. It is Not Appropriate for a Monopoly Utility to Enter Directly into an Unregulated Competitive Market

4 Through this application, SoCalGas asks to be allowed to enter in to an 5 unregulated competitive market. SoCalGas seeks to finance, build, maintain, and 6 operate on customer premises the equipment required to enter that market; 7 equipment which is outside of the utility's core competency. Approving the proposed 8 tariff would run counter to the great body of Commission precedent and culture 9 seeking to foster competitive markets. Commission policy has long been strongly 10 supportive of bringing more competition into regulated markets, while protecting 11 competition in unregulated markets. The Commission should not approve the instant 12 application as it would stifle competition in a currently unregulated market. 13 The Commission has previously considered when and how monopoly energy 14 and gas utilities should be allowed to compete in unregulated markets, and 15 determined that utilities seeking to provide products or services in unregulated 16 markets should do so through an affiliate and in accordance with the affiliate 17 transaction rules. The affiliate rules were crafted after careful consideration of the 18 detrimental effect that a monopoly utility's inherent market power could bring to

competitive markets. The market power borne by SoCalGas is potentially significant;and far from 'jump-starting' the market as SoCalGas claims, would instead stifle

21 competition and crowd out private investment.

22 23

24

#### 1. Monopoly Utilities Seeking to Enter Unregulated and Competitive Markets Must Do So through an Unregulated Utility Affiliate

If a corporation such as Sempra with a regulated monopoly like SoCalGas seeks to compete in an unregulated market, the proper vehicle to do so is through an unregulated affiliate of its holding company (i.e. Sempra). The proposed biogas conditioning and upgrading service should be pursued through a Sempra affiliate rather than the regulated utility. To do so would realize any potential environmental benefits resulting from the service without significant risk to ratepayers and without undermining the development of a competitive biogas services market. 1 The affiliate rules were designed to minimize the effects of a monopoly utility's 2 inherent market power on unregulated, competitive markets. SoCalGas proposes in 3 the instant application that the Commission accept that cost tracking and ratepayer 4 reimbursements will properly insulate both the competitive market from monopoly 5 derived market power and ratepayers from subsidizing the proposed tariff. The 6 Commission has previously considered and rejected as inadequate this type of 7 arrangement.

8

The Commission explained its reasoning behind developing the affiliate rules 9 in D.97-12-088, stating that when markets were less competitive, it had

10 [I]argely relied upon the corporate separation of the regulated 11 and unregulated entities and some cost accounting measures to protect against anti-competitive behavior... With the advent of the 12 13 marketplace characterized by increasing competition, we wish to ensure that utilities' market power does not discourage competition.9 14

15 The Commission chose "to adopt rules that generally require more separation" 16 between a utility and its affiliate, rather than rely almost exclusively on tracking costs"<sup>10</sup> as is proposed by SoCalGas in the instant Application. It was recognized 17 18 that relying on cost tracking solely to protect competitive markets had proven both 19 prone to abuse and difficult to monitor. The Commission held that "rules that rely 20 more upon separation and less on cost accounting solely, can minimize the 21 likelihood of abuses. At the same time, rules that rely upon separation are easier to 22 monitor than rules that primarily rely on a multitude of reporting requirements."11 23 The Commission held that new products and services should be offered 24 through an affiliate, and stated that "We do not wish to adopt a mechanism by which 25 the utility can circumvent the rules we adopt today by offering the products or 26 services itself instead of through an affiliate."<sup>12</sup> This is precisely what SoCalGas 27 proposes in the instant application. SoCalGas is circumventing the Commission's

<sup>&</sup>lt;sup>9</sup> 1997 Cal. PUC LEXIS 1139, p.17

<sup>&</sup>lt;sup>10</sup> 1997 Cal. PUC LEXIS 1139, p.18

<sup>&</sup>lt;sup>11</sup> 1997 Cal. PUC LEXIS 1139, p.167; FoF #6

<sup>&</sup>lt;sup>12</sup> Ibid. \*175; FoF 40.

1 Affiliate Transaction Rules and requesting that the Commission allow it to offer these 2 services directly. The Commission should deny this request. 3 2. SoCalGas' Market Power in Energy and Gas 4 **Related Markets is Significant** 5 The Commission has previously established that a utility can have market 6 power even with regard to a service not yet offered by the utility. In fact the 7 Commission has specifically established in the 1995 SoCalGas Performance Based 8 Ratemaking (PBR) decision that there is a very real possibility of SoCalGas in 9 particular having significant market power in the energy and natural gas field. 10 We also note SoCal's argument that the Commission should 11 presume that if SoCal does not currently offer a service, it cannot have 12 market power with respect to it, and it is therefore a competitive 13 service. By the very nature of SoCal's monopoly position in the energy 14 and energy services market, its access to comprehensive customer 15 records, its access to an established billing system, and its "name brand" recognition, it may be that SoCal enjoys significant market 16 17 power with respect to any new product or service in the energy field.<sup>13</sup> 18 In addition to the sources of market power identified by the Commission in the 19 PBR decision, there are a number of other areas of concern in which SoCalGas' 20 proposal could lead to abuses of market power through the use of monopoly utility 21 resources in the unregulated gas processing market. Ratepayer Funded Utility Staff<sup>14</sup>– SoCalGas proposes to use existing 22 23 utility staff authorized in rates to support the tariff, but acknowledges 24 the possibility of having to hire new staff in order to administer the 25 tariff.<sup>15</sup> Those new staff will cause significant incremental costs to 26 ratepayers. SoCalGas claims that all incremental costs will be

<sup>&</sup>lt;sup>13</sup> 1997 Cal. PUC LEXIS 751, p. 110

<sup>&</sup>lt;sup>14</sup> DRA analysis of the data contained in Data Request 2 Question 6 (Attachment 2) indicates that if projects commence under the proposed tariff at the conservative rate of 2 per year, by the third year the equivalent of 4.14 full time staffers will be working on the biogas tariff. SoCalGas has indicated that there is potential for "roughly 20 projects in SoCalGas service territory over the next 5-10 years." Spread over 10 years, those 20 projects would require 7.36 full time equivalent staffers. Spread over 5 years, they would require 10.12 full time staffers.

<sup>&</sup>lt;sup>15</sup> Attachment 2, DRA Data Request 2, Question 6.

recovered through the biogas tariff, but this depends on the accuracy
 and veracity of SoCalGas' record keeping to avoid ratepayer subsidy,
 and does not account for the indirect costs to ratepayers of hiring and
 training new staff dedicated to implementing the tariff.

- 5 Ratepayer Funded Insurance Policy – Ratepayers have already paid • 6 for SoCalGas' insurance, and any liability caused by projects built 7 under the proposed tariff would rely on this existing insurance. 8 SoCalGas has stated in response to DRA discovery that "[t]o the 9 extent that biogas-related claims increase our self-insured retention 10 costs or insurance costs, there could be a related change to the cost forecasts we present to the CPUC in future GRCs."<sup>16</sup> In other words, 11 12 should a liability arise from the biogas tariff which increases SoCalGas' 13 insurance costs, SoCalGas would seek to recover the increase in 14 rates.
- 15 As outlined in Section F below, in this case the liability issue is much 16 more significant with SoCalGas seeking to enter directly into the 17 business of gas processing and production. Such an arrangement 18 blurs the lines of responsibility and liability for any potential incidents 19 involving improperly conditioned gas affecting pipeline quality, integrity, 20 or safety, as well as the health and safety of end use customers. In any 21 such incidents that may occur in conjunction with the proposed service, 22 there could be substantial liability involved.
- SoCalGas' Brand Equity The Commission has previously held that a
   Utility's brand equity can be considered a competitive advantage
   through "name brand recognition."<sup>17</sup> The Commission has adopted
   protections in the affiliate rules to prevent abuses, finding that "joint
   use of a name and logo, will promote customer confusion by allowing

<sup>&</sup>lt;sup>16</sup> Attachment 2, DRA Data Request 2, Question 3.

<sup>&</sup>lt;sup>17</sup> 1997 Cal. PUC LEXIS 751, p. 110

1	affiliates to capitalize on the public perception that their products are
2	closely associated with the regulated utility's."18
3	In addition there is a possibility that by having utility staff administering
4	the new service, customers may take this as an implicit assurance that
5	produced biomethane will meet SoCalGas' safety standards,
6	expressed, in part, in Rule 30. <sup>19</sup>
7	<ul> <li>Customer Information not Available to Competitive Enterprises –</li> </ul>
8	SoCalGas will be aware of the amount of biogas being injected into the
9	utility distribution system from every biogas producer in SoCalGas
10	service territory. Such information could allow SoCalGas to undercut
11	competitors, target sales leads, and cherry pick biogas conditioning
12	customers.
13	<ul> <li>Advanced Knowledge of Any Biogas Producer Seeking Pipeline</li> </ul>
13 14	<u>Advanced Knowledge of Any Biogas Producer Seeking Pipeline</u> <u>Access</u> – Any independent producer of biogas seeking to upgrade and
_	
14	Access – Any independent producer of biogas seeking to upgrade and
14 15	<u>Access</u> – Any independent producer of biogas seeking to upgrade and inject conditioned biogas into the utility distribution system must first
14 15 16	<u>Access</u> – Any independent producer of biogas seeking to upgrade and inject conditioned biogas into the utility distribution system must first seek permission to do so from SoCalGas by entering into a utility
14 15 16 17	<u>Access</u> – Any independent producer of biogas seeking to upgrade and inject conditioned biogas into the utility distribution system must first seek permission to do so from SoCalGas by entering into a utility access agreement in accordance with SoCalGas Tariff Rule 39. <sup>20</sup> This
14 15 16 17 18	<u>Access</u> – Any independent producer of biogas seeking to upgrade and inject conditioned biogas into the utility distribution system must first seek permission to do so from SoCalGas by entering into a utility access agreement in accordance with SoCalGas Tariff Rule 39. <sup>20</sup> This would provide SoCalGas with a competitive advantage in that
14 15 16 17 18 19	<u>Access</u> – Any independent producer of biogas seeking to upgrade and inject conditioned biogas into the utility distribution system must first seek permission to do so from SoCalGas by entering into a utility access agreement in accordance with SoCalGas Tariff Rule 39. <sup>20</sup> This would provide SoCalGas with a competitive advantage in that SoCalGas would be fully aware of the parameters of any competitor's
14 15 16 17 18 19 20	<u>Access</u> – Any independent producer of biogas seeking to upgrade and inject conditioned biogas into the utility distribution system must first seek permission to do so from SoCalGas by entering into a utility access agreement in accordance with SoCalGas Tariff Rule 39. <sup>20</sup> This would provide SoCalGas with a competitive advantage in that SoCalGas would be fully aware of the parameters of any competitor's biogas project at a very early phase in project development. Such

<sup>19</sup> SoCalGas Tariff Rule 30; Transportation of Customer owned Gas.
 <u>http://www.socalgas.com/regulatory/tariffs/tm2/pdf/30.pdf</u>; accessed 2/22/2013.
 <sup>20</sup> Before delivering natural gas into the pipeline, producers and SoCalGas "must execute Form No. 6450, Interconnection Agreement (IA) and Form No. 6435, Operational Balancing Agreement (OBA)." SoCalGas Tariff Rule 39, Access to the SoCalGas Pipeline System, A.2. Available at http://www.socalgas.com/regulatory/tariffs/tm2/pdf/39.pdf; accessed 2/22/2013.

<sup>&</sup>lt;sup>18</sup> 1997 Cal. PUC LEXIS 1139, p. 171; FoF 25

2 3

1

#### 3. It is Not Appropriate for a Monopoly Utility to Use Ratepayer Funds to "Jump Start" an Unregulated Market

4 In supplemental testimony SoCalGas asserts that the biogas market in California is "at a virtual stand-still,"<sup>21</sup> and therefore the market requires a "jump 5 start."22 This characterization of the market is an oversimplification and one for which 6 7 SoCalGas provides no evidence. The biogas market is in its infancy and will evolve 8 over time. SoCalGas' solution to this is to use ratepayer funding to "jump start" the 9 market, but this could cause substantial damage to the prospects of a competitive 10 market developing. Changes to law and policy are currently being made regarding 11 biogas production; and to allow utility entrance now would undermine these efforts 12 and preclude the evolution of the market.

13 In making its proposal to "jump start" the biogas market, SoCalGas neglects 14 to mention that the utility has attempted to "jump start" a market before. The result 15 was an ongoing ratepayer subsidy that undermined market competition to the point 16 where the Commission ordered SoCalGas out of the market. In the 1990's 17 SoCalGas invested significant sums of ratepayer money in customer premise retail 18 natural gas vehicle refueling stations. In 1995, the Commission ordered SoCalGas to 19 divest its refueling facilities on customer premises using reasoning that can be 20 equally applied in the instant proceeding: "The use of regulated monopoly funds for 21 the development of a private business in this emerging market raises the potential 22 for unfair competition."<sup>23</sup> The Commission ordered SoCalGas to divest its refueling 23 assets on customer premises within six years. After investing roughly \$40 million in 24 refueling stations, SoCalGas then sold those stations for \$2.7 million resulting in a total loss to ratepayers of roughly 93%, or \$37.3 million.<sup>24</sup> If SoCalGas is allowed to 25 26 place biogas conditioning equipment on customer premises into ratebase,

27 SoCalGas' attempt to 'jump-start' the biogas processing industry could well result in

<sup>&</sup>lt;sup>21</sup> Supplemental Testimony of Jeffrey Reed; p. 5, 1.

<sup>&</sup>lt;sup>22</sup> Ibid; 5, 11-12.

<sup>&</sup>lt;sup>23</sup> 1995 Cal. PUC LEXIS 978, p. 172; FoF 94. .

<sup>&</sup>lt;sup>24</sup> See, A.11.11.011, Exhibit DRA-01, p.11-13. Attached hereto as Attachment 4.

1 a similar loss to ratepayers. Beyond that, the use of regulated monopoly funds in the

2 development of private biogas businesses would serve to deter private investment in

- 3 the industry, stunting both market growth and the growth of technical expertise in
- 4 biogas production and processing by entities more suited to provide such services.
- 5
- 6
- 7

#### B. Public Utilities Code §740.8 Does Not Support the Proposed Tariff because the Tariff does Not Encourage Infrastructure **Development for Low Emission Vehicles**

- 8 SoCalGas claims that the Public Utilities (PU) Code § 740.8 supports
- 9 the Application.<sup>25</sup> This claim is based on an inaccurate interpretation of the
- Public Utilities Code. PU Code § 740.8<sup>26</sup> only refers the interests of ratepayers 10
- within the context of PU Code §740.3.<sup>27</sup> PU Code §740.3, in turn, charges the 11

<sup>26</sup> PU Code § 740.8 states:

As used in Section 740.3, "interests" of ratepayers, short- or long-term, mean direct benefits that are specific to ratepayers in the form of safer, more reliable, or less costly gas or electrical service, consistent with Section 451, and activities that benefit ratepayers and that promote energy efficiency, reduction of health and environmental impacts from air pollution, and greenhouse gas emissions related to electricity and natural gas production and use, and increased use of alternative fuels.

<sup>27</sup> PU Code §740.3 provides, emphasis added:

- (a) The commission, in cooperation with the State Energy Conservation and Development Commission, the State Air Resources Board, air quality management districts and air pollution control districts, regulated electrical and gas corporations, and the motor vehicle industry, shall evaluate and implement policies to promote the development of equipment and infrastructure needed to facilitate the use of electric power and natural gas to fuel low-emission vehicles. Policies to be considered shall include both of the following:
- (1) The sale-for-resale and the rate-basing of **low-emission vehicles** and supporting equipment such as batteries for electric vehicles and compressor stations for natural gas fueled vehicles.
- (2) The development of statewide standards for electric vehicle charger connections and compressed natural gas vehicle fueling connections, including installation procedures and technical assistance to installers.
- (b) The commission shall hold public hearings as part of its effort to evaluate and implement the new policies considered in subdivision (a), and shall provide a progress report to the Legislature by January 30, 1993, and every two years thereafter, concerning policies on rates, equipment, and infrastructure

(continued on next page)

<sup>&</sup>lt;sup>25</sup> See, Attachment 1, DRA Data Request 1, p. 1, which confirms that SoCalGas is relying on PU Code § 740.8.

1 Commission, in consultation with other agencies, to promote the development

- 2 of infrastructure for low emission vehicles. SoCalGas' application does not
- 3 satisfy the purpose of PU Code § 740.3. More importantly, § 740.8 has no
- 4 bearing on this application because the ratepayers' "interest" cited in this
- 5 section only refer to benefits that ratepayers would gain through the promotion
- 6 of infrastructure for low emission vehicles, as stated in §740.3.
- 7 The entirety of the policy rationale given to DRA by SoCalGas' for using 8 ratepayer funds in support of the proposed service hinges on it being within 9 the definition of ratepayer interest in PU Code § 740.8. As this definition 10 clearly applies only to PU Code § 740.3, and as the proposed service does 11 not speak to the furtherance of the adoption of low emission vehicles, neither 12 PU Code §§ 740.8 nor 740.3 justify authorizing SoCalGas to offer the 13 proposed biogas conditioning service.
- 14
- 15 16

#### C. The Environmental Policy Goals Cited by SoCalGas are Generic in Nature and are not limited to SoCalGas Offering the Proposed New Service

17 State and local environmental policy goals do not constitute a blank check for 18 SoCalGas to use ratepayer funds or dominate a market in pursuit of any initiative 19 which might possibly mitigate GHG or other emissions. While SoCalGas cites a 20 number of environmental policies which are supportive of Biogas and Bioenergy in 21 the abstract, none of the policies support ratepayer subsidies or the exercise of 22 monopoly power. There are other options to offer the same environmental benefits

<sup>(</sup>continued from previous page)

implemented by the commission and other state agencies, federal and local governmental agencies, and private industry to facilitate the use of **electric power and natural gas to fuel low-emission vehicles**.

<sup>(</sup>c) The commission's policies authorizing utilities to develop equipment or infrastructure needed for electric-powered and natural gas-fueled low-emission vehicles shall ensure that the costs and expenses of those programs are not passed through to electric or gas ratepayers unless the commission finds and determines that those programs are in the ratepayers' interest. The commission's policies shall also ensure that utilities do not unfairly compete with nonutility enterprises.

that a) do not place ratepayers at risk as in this proposal; b) do not create monopoly
domination of a market; and c) do not create the same conflicts of interest and
liability issues as the instant Application.

4 SoCalGas agrees that none of the environmental benefits claimed in Opening 5 Testimony are unique to the proposed service, stating that "these benefits are not 6 solely unique to SoCalGas' tariff offering. Any customer or third party service 7 provider who is interested in conditioning/upgrading biogas may realize the same environmental benefits."28 The environmental benefits provided by the tariff are 8 9 societal in nature and could be provided by any entity providing such service. The 10 gas processing market is not a natural monopoly, the biogas production market 11 requires no monopoly utility entrance. As established above, these environmental 12 benefits are the sole benefit to ratepayers claimed by SoCalGas from the proposed 13 tariff.

14 California's GHG emission reduction goals do not abrogate SoCalGas' 15 responsibility to ratepayers to maintain the lowest possible rates consistent with 16 safety and reliable service. SoCalGas cites AB 32's GHG reduction goals as a 17 support for the proposed tariff. However, the language in AB 32 calls for the 18 "maximum technologically feasible and cost-effective reductions in greenhouse gas emissions."29 SoCalGas does not speak to the cost-effectiveness of biogas 19 20 conditioned though the tariff relative to other sources of GHG emission reduction. AB 21 32 does not endorse specific emissions reduction methods or technologies. As 22 discussed in Section D of this report, the cost effectiveness of biogas relative to 23 other emissions reductions is currently unproven.

SoCalGas cites the California Energy Commission's (CEC) 2011 Bioenergy
Action Plan's (BAP) conclusion that bioenergy programs can provide significant
GHG reduction benefits. This fact is not in dispute in this proceeding. SoCalGas is
taking a policy generally supportive of emission reductions and claiming it supports
its proposed tariff. Each of SoCalGas' citations to the report are passages speaking

<sup>&</sup>lt;sup>28</sup> Attachment 2, DRA Data Request 2, Question 2.

<sup>&</sup>lt;sup>29</sup> AB 32, 38561(a).

1 of bioenergy in general, none speak to the specific challenges involved in developing 2 biogas. The 2012 edition of the BAP speaks to the specific tariff in question, stating 3 that the commission should "assess the proposed SoCal Gas tariff for biogas 4 conditioning and pipeline injection to determine whether this is an effective and efficient means for increasing pipeline injection of biomethane."<sup>30</sup> This is not an 5 6 endorsement, rather it asks the Commission to consider the issue. As outlined in this 7 report, there are serious concerns as to whether this proposal can in fact be 8 'effective and efficient' as called for in the CEC's report. If SoCalGas is unable to 9 offer the service without ratepayer subsidy, and without exercising market power, 10 then it is not the most effective or efficient way to encourage robust biogas 11 production in California. 12 The BAP states that "If this method is not effective, [the Commission should]

13 initiate a public process to identify barriers to injecting biogas and landfill gas into the

14 California natural gas pipeline and implement actions to address these barriers."31

15 The Commission has recently opened a rulemaking (R.13-02-008) to does so. As

16 will be outlined in Section G of this report, the ongoing rulemaking makes it

premature to authorize SoCalGas to condition gas to standards which have yet to bedetermined.

SoCalGas claims that the proposed tariff will help California attain the bioenergy goals outlined in the CEC's 2011 Integrated Energy Policy Report (IEPR).<sup>32</sup> SoCalGas quotes the report's finding that "One of the most daunting barriers renewable energy project developers face at every level is the high upfront cost."<sup>33</sup> This quote does not refer specifically to biogas or even to bioenergy, but to renewables as a whole. As outlined in section D of this report, the strongest impediment to developing biogas in California is the current low price of natural gas.

http://www.resources.ca.gov/docs/2012\_Bioenergy\_Action\_Plan.pdf; accessed 2/22/2013.

<sup>&</sup>lt;sup>30</sup> California Energy Commission's 2012 Bioenergy Action Plan, p. 29.

<sup>&</sup>lt;sup>31</sup> Ibid. 29.

<sup>&</sup>lt;sup>32</sup> California energy Commission's 2011 Integrated Energy Policy Report. http://www.energy.ca.gov/2011publications/CEC-100-2011-001/CEC-100-2011-001-CMF.pdf; accessed 2/22/2013.

<sup>&</sup>lt;sup>33</sup> SoCalGas Opening Testimony, Chapter I, p. 13, 14-15.

This factor keeps biogas from being cost competitive with non-renewable natural gas
and other renewables. Issues involving upfront costs and financing constitute only a
portion of the many current barriers to biogas production in California, and tellingly,
is not an impediment to biogas production singled out in the IEPR.

5 SoCalGas attempts to rely on the State's RPS rules, and the South Coast Air 6 Quality Management Rule 1110.2. In both cases the policy support is generic in 7 nature and does not support the specific tariff proposal in SoCalGas' Application. 8 The fundamental issues in this proceeding are not about the importance of biogas in 9 general or the state's environmental goals. These goals may be met in any number 10 of ways, and are not dependent on the instant Application. In fact Pacific Gas & Electric (PG&E) has filed an advice letter<sup>34</sup> with this Commission to enter into Power 11 Purchasing Agreements (PPA)<sup>35</sup> with two dairy waste biomethane projects, which 12 13 will use anaerobically digested dairy waste to generate electricity. The agreements being sought by PG&E will provide every environmental benefit (similar to those that 14 15 SoCalGas suggests its tariff offers) without putting ratepayers in the same risk. without placing the facilities into ratebase, and without concentrating market power.<sup>36</sup> 16 17 The facilities that PG&E seeks to contract with are privately owned and do not rely on ratebased capital or embedded utility resources as SoCalGas' tariff does.<sup>37</sup> 18 19 There are better ways to meet the State's bioenergy goals. In the tariff 20 proposal at hand, an incumbent IOU seeks both to use ratepayer money to compete 21 in an unregulated market and to process and produce rather than simply distribute 22 gas. Each of these issues represents a material change to standing Commission 23 policy.

 <sup>&</sup>lt;sup>34</sup> AL 4193-E. <u>http://www.pge.com/nots/rates/tariffs/tm2/pdf/ELEC\_4193-E.pdf</u>; accessed 2/22/2013.
 <sup>35</sup> PG&E is Requesting to enter into PPAs for RPS eligible bioenergy from two projects, Stockdale and Old River. The Stockdale PPA has a capacity of 0.6 MW and a term of 10 years. The Old River PPA has a capacity of 1.84 MW and a term of 15 years.

<sup>&</sup>lt;sup>36</sup> The PPAs are designed so that the cost of the facilities are not ratebased and ratepayers only pay for the energy delivered by the facility. If the facility does not produce energy or is shuttered before the end of the term of the PPA ratepayers do not pay. In SoCalGas' proposal, ratepayers would end up paying for the facility in either of these situations.

<sup>&</sup>lt;sup>37</sup> DRA has not at this time taken an official position on the pending advice letter; it is included herein to demonstrate that promoting biogas need not require utility ownership of biogas facilities.

1

#### D. The Economics of Biogas Production are Uncertain

2 The biogas market in California is relatively new; and as finding workable 3 business model has been a challenge for biogas producers. This is due to many 4 factors, to primary of which is the low price of natural gas. While natural gas prices 5 are currently between \$3 and \$4 per MMBTU, the cost of biomethane can range between \$11 and \$23 per MMBTU<sup>38</sup> depending on the project. A rise in the price of 6 7 carbon credits could bring biogas closer to profitability, but even so biomethane is 8 extremely expensive as compared with most other renewables. Nowhere in 9 SoCalGas' testimony is there any indication that the business model underlying the 10 proposed tariff will be more successful at developing biogas than the status quo.

11 12

#### 1. Nearly Half of All Attempts to Produce Biogas in California Have Failed

13 Biogas production in California has been limited to date. To the extent that 14 projects have been attempted, a substantial portion of such projects have resulted in 15 failure. This is relevant to the instant proceeding because SoCalGas seeks only to 16 process biogas which requires others to produce sufficient biogas for a sufficiently 17 long time period so as to fulfill the terms of the tariff contract. If the producers cannot 18 do so the ratepayer backstopped investments SoCalGas seeks in this Application 19 would become stranded, resulting in ratepayer responsibility for the full 20 undepreciated cost of the asset with no incoming revenues to offset the cost in rates. 21 It should be noted that in such a case, ratepayers would continue to pay a rate of 22 return for the failed investment. 23 According to the Environmental Protection Agency, of 22 agricultural

24 digesters built to date in California, 10 have been shut down, representing a failure

rate of 45%.<sup>39</sup> Of the 10 plants which have shut down, 7 were operational for 5 years

or fewer. Of the 12 operating plants, half have been operating for 5 years or less.

<sup>&</sup>lt;sup>38</sup> Economic Feasibility of Dairy Manure Digester and Co-Digester Facilities in the Central Valley of California, p.3-9.

http://www.waterboards.ca.gov/centralvalley/water\_issues/dairies/dairy\_program\_regs\_requirements/ final\_dairy\_digstr\_econ\_rpt.pdf; accessed 2/19/2013.

1 SoCalGas has indicated that a typical biogas conditioning contract would last 10-15

2 years.<sup>40</sup> Only two digesters, one still functioning and one shut down, were in

3 operation long enough to fulfill the fifteen year term of the contract proposed by

4 SoCalGas.

5 The majority of these in state agricultural digesters were built with funding 6 from two rounds of CEC grants in 2002 and in 2006. These grants were made when 7 natural gas prices were much higher than current levels, and biogas, while still 8 expensive, was closer economic parity. Even with high gas prices and the burden of 9 up-front financing alleviated via grant funding, the failure rate for California's 10 agricultural digesters is 45%. SoCalGas claims that partial utility financing of these 11 projects will lead to more projects and to more successful outcomes. The fate of the 12 digesters built with CEC grant money does not support this claim.

13 14

#### 2. SoCalGas' Financing of Biogas is Dependent on an Implicit Ratepayer Subsidy

15 SoCalGas has made the claim that the lack of financing options for potential 16 biogas producers is a key impediment to the expansion of biogas production in 17 California. SoCalGas would mitigate this by providing finance for the upgrading and 18 conditioning portion of the project. SoCalGas claims that this will lead to better 19 financing terms for the project as a whole, as biogas producers who "[partner] with 20 strong counterparties that are willing to take on some of the project risk... are more likely to secure better financing terms from lending institutions."41 21 22 The difficulty in financing biogas production stems from the underlying 23 economics and the inherently risky nature of this new and unproven market. 24 SoCalGas admits in Opening Testimony that there are a number of risk 25 factors affecting overall project economics, noting that "many projects fail due to

26 unanticipated circumstances such as failing to secure a solid feedstock agreement,

<sup>(</sup>continued from previous page)

<sup>&</sup>lt;sup>39</sup> Data from the EPA's AgStar Anaerobic Digester Database;

http://www.epa.gov/agstar/downloads/digesters\_all.xls; accessed 2/19/2013.

<sup>&</sup>lt;sup>40</sup> Attachment 1, DRA Data Request 1, Question 19.

<sup>&</sup>lt;sup>41</sup> SoCalGas Opening Testimony, Chapter II, p. 10-11.

1 understanding the variability of gas constituents and ranges to be conditioned to 2 pipeline quality, and ensure [sic] that there are adequate performance guarantees in 3 place to minimize risk of equipment downtime."<sup>42</sup> Potential investors price this risk, 4 which even SoCalGas acknowledges, into the cost of financing biogas production 5 and conditioning. To the extent that SoCalGas' proposal can "secure better financing" 6 terms" it is by shifting project risk onto ratepayers and guaranteeing a ratepayer 7 bailout in the case of project failure. Such risks should be undertaken by a Sempra 8 affiliate and not by SoCalGas ratepayers.

9

#### E. Benefits Accrue to Shareholders; Risks to Ratepayers

10 There is no compelling ratepayer interest served by SoCalGas' proposal, and 11 yet ratepayers would be subject to substantial risk by entering into an unproven and 12 unregulated market. Shareholders will reap a rate of return regardless of the 13 outcome of projects financed through the tariff. The upside for shareholders is 14 substantial, while as established above, the benefit specific to ratepayers is entirely 15 unsubstantiated. The risk accrues almost entirely to ratepayers; the benefits accrue 16 entirely to shareholders. This is not an equitable proposal.

17 18

#### 1. There is a Strong Incentive for SoCalGas to Underprice Tariff Contracts

19 SoCalGas has claimed that contracts signed under the tariff will be 20 appropriately priced to recover the full cost of operating the facility over the life of the 21 tariff. However in response to DRA discovery, SoCalGas indicated that should these 22 projections result in the undercollection of revenues from a ratebased tariff contract 23 the amount of the undercollection would be recovered in rates. SoCalGas claims 24 that despite this being the case, there are "strong incentives"<sup>43</sup> for SoCalGas to 25 overcollect. Were this the case, the increased price of service under the tariff would 26 be a deterrent to tariff adoption. In fact, the opposite is the case: were SoCalGas to 27 systematically underprice tariff contracts the result would be an increased number of 28 tariff agreements, leading to an increased rate of return to shareholders on the full

<sup>&</sup>lt;sup>42</sup> SoCalGas Opening Testimony, Chapter II, p. 10.

<sup>&</sup>lt;sup>43</sup> Attachment 1, DRA Data Request 1, Question 21.

amount of the tariff contracts for the life of the contracts. The difference between the
cost of actually providing the service and the tariff revenues would be recovered in
rates with ratepayers effectively subsidizing the program. SoCalGas shareholders
would see better returns for underpricing the tariff and all losses will accrue to
ratepayers.

- 6
- 7 8

#### 2. Should a Tariff Customer be Unwilling or Unable to Fulfill the Full 10-15 Year Contract Ratepayers are at Risk

9 If a tariff customer for any reason is unwilling or unable to continue tariff 10 service for the full 10-15 year life of the contract, ratepayers would bear the full cost 11 of the undepreciated asset with no tariff revenues to offset the costs. Ratepayers 12 are, in effect, required to cover any losses incurred through breach of contract. If a 13 project fails, a customer goes bankrupt, stops paying the tariff fee, sells or abandons 14 the underlying customer property, or simply cancels the service ratepayers required 15 to bear the full cost of the undepreciated asset. SoCalGas claims that in such cases 16 they would "first exhaust all commercial and legal remedies to collect the remaining 17 balance due and the required cost to remove and redeploy the asset from the customer premises."<sup>44</sup> They acknowledge that if the asset has been incorporated 18 19 into ratebase, any unrecoverable cost remains in rates and is fully borne by 20 ratepayers, stating that "SoCalGas shareholders bear the economic loss between 21 GRC's until the remaining undepreciated capital investment is rolled-in to ratebase (italics added).<sup>45</sup> If the asset has not vet been incorporated into ratebase, SoCalGas 22 23 shareholders bear the loss only for the short period until the next GRC, at which 24 point ratepayers bear the full remaining cost of the failed investment. 25 As this testimony has established, biogas production remains a risky 26 investment. Biogas is in regulatory flux, the economics of biogas production are a 27 continuing challenge, and the rate of failure for biogas facilities is substantial. 28 SoCalGas has acknowledged as much; and relies upon this risk to justify ratepayer

29 involvement, stating in supplemental testimony that "denial in advance of

<sup>&</sup>lt;sup>44</sup> Attachment 1, DRA Data Request 1, Question 10.

1 hypothetical recovery costs is inappropriate given the nascent nature of the

2 market."<sup>46</sup> It is almost likely that some facilities built under this tariff will fail, and when

3 they do the cost to ratepayers could be substantial.

SoCalGas has indicated that the biogas potential in its service territory could
support up to 20 projects large enough to be economically viable.<sup>47</sup> SoCalGas has
also indicated that a representative project would cost approximately \$13.2 million.<sup>48</sup>
This would potentially mean that ratepayers would be at risk for costs associated
with up to \$264 million worth of biogas equipment.

9 10

#### F. Gas Production is Outside of SoCalGas' Core Competency and Creates the Potential for Utility Liability

11 The production and processing of gas are not a core competency of 12 SoCalGas. SoCalGas' experience with biogas processing consists of a single demonstration project.<sup>49</sup> SoCalGas is a monopoly gas utility, and as such its core 13 14 competency is in the transmission and distribution of natural gas, not gas processing 15 or production. SoCalGas has recently proposed extensive projects as part of its 16 Pipeline Safety Enhancement program (A.11-11-002). SoCalGas' efforts would be 17 more properly focused on assuring the integrity and safety of its gas transmission 18 and distribution pipeline operations and infrastructure.

19 The proposed tariff is not a version of a service SoCalGas already offers; 20 rather it consists of a new service by which SoCalGas seeks to enter an entirely new 21 field, one which carries substantial risk of utility liability. There is a conflict of interest 22 in that SoCalGas, as the operator of the gas transmission and distribution system, is 23 both responsible for establishing rules regarding the quality of gas entering its 24 system and is simultaneously requesting to engage in the business of processing 25 gas to meet those standards.

<sup>(</sup>continued from previous page)

<sup>&</sup>lt;sup>45</sup> Ibid.

<sup>&</sup>lt;sup>46</sup> Supplemental Testimony of Jeffrey Reed; p. 5, 3-5.

<sup>&</sup>lt;sup>47</sup> SoCalGas Opening Testimony, Chapter II, p. 12, 2-3.

<sup>&</sup>lt;sup>48</sup> Attachment 1, DRA Data Request 1, Question 18.

<sup>&</sup>lt;sup>49</sup> Attachment 3, DRA Data Request 3, Question 20.

#### 1 2

#### 1. SoCalGas Takes on Substantial New Liability by Entering into the Gas Processing Industry

By proposing to enter into the gas processing production business, SoCalGas is opening itself and its ratepayers up to a new level of potential liability. One such liability could stem from contaminated or otherwise impure gas processed by SoCalGas under the tariff entering the distribution system. Traditionally there has been separation between the entities processing and producing gas and those distributing the natural gas. In the case of such incidents SoCalGas is able to seek some level of restitution from gas producers.

There have been at least 15 incidents in which improperly treated or
contaminated gas entered SoCalGas' distribution system. SoCalGas has provided a
list of such events, confirming at least 9 types of contaminants which have at various
times been introduced into the natural gas distribution system through a supplier's
improperly treated gas.<sup>50</sup>

Two such incidents involved hydrogen sulfide, one of the components of the raw biogas SoCalGas would seek to process under the proposed tariff. Each of these incidents is illustrative of the potential problems with pipeline injection of processed biomethane. These events show the importance of having separation and clear lines of liability between gas producers and the monopoly gas distributer.

20 On December 29 of 1983, a failure in the gas processing equipment at the 21 Pacific Offshore Pipeline Company's (POPCO) Las Flores Canyon Gas Treatment 22 Plant resulted in 200 PPM hydrogen sulfide entering into SoCalGas' distribution 23 system.<sup>51</sup> This incident resulted in evacuation orders being issued to over 20,000 24 SoCalGas customers.

A second incident occurred on May 12, 1984, when hydrogen sulfide was introduced into SoCalGas' distribution pipelines at the Wilmington, California gas delivery point.<sup>52</sup> Hydrogen sulfide is present in biogas, and is dangerous to both

<sup>&</sup>lt;sup>50</sup> Attachment 5, Revised DRA Data Request 3, Question 19. p. 2.

<sup>&</sup>lt;sup>51</sup> Attachment 6, Federal Register, Vol. 54, No. 108.

<sup>&</sup>lt;sup>52</sup> Ibid.

human health and pipeline integrity. In both of these incidents the gas was procured
from an independent producer who processed and injected the gas themselves.
When contaminates were introduced into the pipelines the line of liability was clear.
In the first incident a non-public settlement was reached.<sup>53</sup> It is likely that the
settlement reimbursed the utility for damage to its distribution system and to
customer property caused by the incident.

In another incident, polychlorinated biphenyls (PCBs) were introduced into SoCalGas' distribution system at the point of gas delivery from the Transwestern pipeline. This resulted in PCBs being found in pipeline liquids within the SoCalGas distribution system. PCBs are a known carcinogen, and are known to cause a number of other serious health problems in humans. The incident resulted in a nonpublic settlement in which Transwestern was held liable for contaminants introduced into SoCalGas' distribution system.<sup>54</sup>

14 When procuring gas from an outside entity, there is a clear line of liability in 15 the event of an incident resulting in pipeline contamination. SoCalGas was able, in 16 each of the instances referenced, to collect some level of restitution from the entities 17 responsible for injecting the tainted gas into SoCalGas' pipeline. SoCalGas 18 proposes to enter into a contract with biogas owners assuring that the gas will comply with Rule 30 standards.<sup>55</sup> The machinery to accomplish this will be designed, 19 20 built, and owned by SoCalGas. The staff providing operations and maintenance will 21 be hired and paid by SoCalGas. These investments are proposed by SoCalGas to 22 be supported by ratepayer funds. The Rule 30 standards themselves are set by 23 SoCalGas. These all, individually and collectively, create a situation rife with 24 potential conflicts of interest.

<sup>&</sup>lt;sup>53</sup> DRA is not aware of the terms of that settlement; but is pursuing such information through discovery.

<sup>&</sup>lt;sup>54</sup> Again DRA lacks more detailed information regarding this incident, but is in pursuit of such information through discovery.

<sup>&</sup>lt;sup>55</sup> See SoCalGas Tariff Rule 30, Transportation of Customer owned Gas, Section I, Gas Delivery Specifications. <u>http://www.socalgas.com/regulatory/tariffs/tm2/pdf/30.pdf</u>; accessed 2/22/2013.

1 The more appropriate structure for both SoCalGas' shareholders and 2 ratepayers is that there is a clear separation between the utility having ownership of 3 the gas transmission and distribution system and the entities producing gas. In the 4 examples given above this separation served to protect the interests of both 5 SoCalGas and its captive ratepayers. With SoCalGas involved in the production of 6 gas the lines of liability are unclear and no bright line exists. If SoCalGas as a 7 regulated utility processing gas is liable for any contaminants introduced into the 8 distribution network, then how are SoCalGas the distributer and its ratepayers to be 9 compensated for such an event?

10 . If contaminants should enter the natural gas distribution system as a result 11 of gas improperly processed though the proposed service, SoCalGas could face 12 liability both for cleaning up the damage done by any contaminants entering the gas 13 stream, and to a lawsuit by the tariff customer for damages due to an interruption of 14 their revenue stream and to the community for damages should contaminants be 15 released.. Should this foreseeable event occur, the captive ratepayer will pay the 16 price if the Commission grants SoCalGas' the ability to enter the gas production and 17 processing market.

18 19

# G. AB 1900 and its Associated Rulemaking make the Instant Application Premature

20 One of the issue areas identified in this proceeding's Scoping Memo was the 21 effect of the passage of AB 1900 on the instant Application. The effect of AB 1900 22 lies outside the core issues in this Application. AB 1900 added § 399.24 to the Public 23 Utilities Code, which states that "To meet the energy and transportation needs of the 24 state, the Commission shall adopt policies and programs that promote the in-state 25 production and distribution of biomethane." Public Utilities Code § 399.24 does not 26 address the Commission allowing utilities to use ratepayer funds in pursuit of 27 promoting in-state biomethane. The statute does not require that the Commission 28 support any particular biogas related application, and it does not require the 29 Commission to approve the use of ratepayer funds as requested by SoCalGas.

PG&E's pending PPA<sup>56</sup> shows that other utilities are proposing to support 1 2 biomethane in ways that do not carry risk to ratepayers as proposed by SoCalGas. 3 The Commission can support the production of biomethane in California 4 through development of a robust market of competitive providers of biogas related 5 equipment and services. Allowing a monopoly utility to leverage its competitive 6 advantages by entering into this nascent market using ratepayer funds would set 7 back competitive market development and crowd out private investment. It could 8 stifle innovation by preventing new market entrants who would not be able to 9 compete against a regulated utility using funding and resources provided by captive 10 ratepayers.

11 AB 1900 instructs the Commission to institute a rulemaking into new 12 standards for pipeline injected biomethane to protect both human health and pipeline 13 integrity.<sup>57</sup> The result of the rulemaking called for in AB 1900 will be a uniform set of 14 standards for possible contaminants in biomethane. The Commission has instituted 15 the requisite Rulemaking (R.13-02-008), but that proceeding is in its infancy, and 16 these rules have not been adopted. SoCalGas has indicated that pipeline injection 17 will be a primary usage of the biomethane produced through the proposed tariff. The 18 rulemaking adopting standards for such pipeline injection is currently underway. At 19 this time, with the regulatory environment surrounding pipeline injection of 20 biomethane in flux, it is premature for SoCalGas to request approval of a tariff aimed 21 at introducing biomethane into the utility distribution system.

<sup>&</sup>lt;sup>56</sup> AL 4193-E. <u>http://www.pge.com/nots/rates/tariffs/tm2/pdf/ELEC\_4193-E.pdf</u>; accessed 2/22/2013.

<sup>&</sup>lt;sup>57</sup> AB 1900, 5(c): On or before December 31, 2013, for biomethane that is to be injected into a common carrier pipeline, the commission shall, by rule or order, adopt standards that specify, for constituents that may be found in that biomethane, concentrations that are reasonably necessary to ensure both of the following:

<sup>(1)</sup> The protection of human health. In making this specification, the commission shall give due deference to the determinations of the board pursuant to paragraph (4) of subdivision (a).(2) Pipeline and pipeline facility integrity and safety.

1 2

3

#### H. SoCalGas' Ratemaking Proposals are Inappropriate for a Tariff Proposing Utility Entrance into an Unproven and Unregulated Market

SoCalGas has proposed to use what it calls the "traditional ratemaking treatment"<sup>58</sup> in determining the appropriate approach to ratemaking in the instant Application. Traditional ratemaking is appropriate for a monopoly utility's provision of monopoly services. It is not appropriate for a monopoly utility seeking to enter into an unregulated market. For the reasons outlined in this report, DRA does not support SoCalGas' underlying proposal; however even were the underlying proposal sound, the proposed ratemaking is unacceptable.

11 SoCalGas' proposal is to ratebase the undepreciated portion of any tariff 12 asset at the time of SoCalGas' first GRC proceeding after the asset comes into 13 service. This lag time could be as much as three years or as little as a few months. 14 Once the asset has entered ratebase SoCalGas' ratepayers will be fully responsible 15 for the costs and risks associated with the facilities. As has been previously 16 established, those potential risks are substantial. SoCalGas makes the claim that 17 tariff revenues will fully offset costs, but provides no evidence that these projects will 18 remain economically viable for the full life in rates of the assets. A more likely 19 scenario is that project failure rates will remain substantial, leaving ratepayers to 20 shoulder all the costs and the investment for any project which cannot maintain 21 service fee payments for its full 10-15 service life.<sup>59</sup> 22 SoCalGas has not met the burden of showing that there would be any 23 ratepayer benefit to the proposed program. As such, no amount of ratepayer funding 24 should be utilized in provision of the tariff proposed in the Application. The 25 appropriate venue for a monopoly utility to offer a competitive service or product is 26 through an unregulated affiliate. Short of such treatment there must be some level of 27 assurance that SoCalGas will not be using ratepayer resources in support of the

28 proposed tariff.

<sup>&</sup>lt;sup>58</sup> Supplemental Testimony of Jeffrey Reed; p. 4, 18-19.

<sup>&</sup>lt;sup>59</sup> As cited above, the failure rate for dairy digesters in California stands at 45%.

1 SoCalGas previously proposed to offer gas conditioning and upgrading 2 service as a non-tariffed product or service (NTP&S) in advice letter 4172.<sup>60</sup> In the 3 advice letter, SoCalGas proposed that the program be treated as a "below the line" 4 investment. SoCalGas describes such treatment as follows: "In general, costs that 5 are not currently, or possibly in the future, to be recovered by the general ratepayers are considered "below the line" for ratemaking purposes."<sup>61</sup> The advice letter was 6 7 rejected by the Commission as being inconsistent with the affiliate transaction rules. 8 In rejecting the advice letter, Energy Division reiterated that "the Commission has 9 stated its preference to have new products and services provided to non-utility 10 markets by the utility's parent through an affiliate, rather than by the utility itself."62 11 SoCalGas responded with the filing of the instant Application to provide the 12 proposed service via tariff. In this application, the request for below the line 13 treatment was removed. Such treatment of the Application could partially resolve the 14 concerns with ratepayer funds being used in a competitive market and would be 15 consistent with the Commission in D.12-12-037.

16 SoCalGas has proposed to track and recover the cost of ratepayer assets 17 only until the next GRC proceeding after asset deployment, at which point ratepayer 18 assets used in provision of tariff service would no longer be reimbursed. This 19 ratemaking treatment is not appropriate for the same reason that putting tariff assets 20 into rates at all is not appropriate: SoCalGas has not met its burden of showing any 21 compelling ratepayer interest advanced by the tariff as proposed. As such tariff 22 assets should be excluded from ratebase, and any ratepayer resources used in 23 support of the tariff should be refunded to ratepayers for the full life of the asset. 24 Any such costs should be tracked and recovered in as transparent a manner 25 as possible. SoCalGas has proposed to do so in the existing core fixed cost and 26 noncore fixed cost balancing accounts. Such treatment would not be appropriate as 27 it would serve to obscure the true amounts of ratepayer funding used to support the 28 proposed tariff and make it more difficult to ensure that ratepayers are not unduly

<sup>60</sup> AL 4172. http://www.socalgas.com/regulatory/tariffs/tm2/pdf/4172.pdf; accessed 2/22/2013.

<sup>&</sup>lt;sup>61</sup> Attachment 3, DRA Data Request 3, p. 7.

1 subsidizing the tariff. If balancing accounts are approved as requested in this 2 application in order to refund the use of ratepayer resources, they should be unique 3 to the biogas tariff program so as to provide transparency with regard to the rate 4 impact of the tariff and as to the actual tariff costs. This is consistent with the 5 balancing account treatment in D.12-12-037. As these accounts are explicitly 6 designed to pay for ratepayer resources utilized in tariff implementation, these 7 accounts need only function in only one direction. As such any balancing account 8 established in relation to the proposed tariff should be a one-way balancing account. 9 It is important to note however that the changes to ratemaking suggested 10 herein do not constitute DRA endorsement of the tariff as proposed; rather the 11 changes serve only to moderate the significant financial risk to ratepayers inherent 12 to SoCalGas' proposal. They do not eliminate these financial risks, and do nothing to 13 mitigate the additional financial risks stemming from liability issues as well as the 14 non-financial risks to pipeline integrity and safety.

<sup>(</sup>continued from previous page) <sup>62</sup> AL 4172, p. 3.

### 1 ATTACHMENT 1 – DRA DATA REQUEST 1

#### SOUTHERN CALIFORNIA GAS COMPANY BIOGAS CONDITIONING & UPGRADING TARIFF (A.12-04-024) (DATA REQUEST DRA-A1204024-SCG-MK3-1)

#### **QUESTION 1:**

Please explain in detail and quantify all benefits that would accrue to SCG ratepayers as a result of this application. Attach all spreadsheets with formulas if applicable.

#### **RESPONSE 1:**

Please see application testimony:

- Chapter I, Section IIA "SoCalGas' Biogas Conditioning/Upgrading Services Tariff Provides Ratepayers with Environmental Benefits (Public Utilities Code § 740.8)," page 4
- Chapter II, Section VI "SoCalGas' Proposed Service Provides Customer Benefits", pages 16-17, and
- Supporting workpapers to the testimony, Workpapers 1, 3, 7, 8, and 9.

As outlined in the referenced testimony, the proposed service will provide qualitative and quantifiable environmental benefits to ratepayers.

#### SOUTHERN CALIFORNIA GAS COMPANY BIOGAS CONDITIONING & UPGRADING TARIFF (A.12-04-024) (DATA REQUEST DRA-A1204024-SCG-MK3-1)

#### **QUESTION 10:**

Please explain in detail and quantify all of the risks that are associated with this application. For each risk explain whether the risk is assumed by SCG shareholders, SCG ratepayers, or customers of the biogas service. For example:

- a. Please explain in detail any liability risks associated with the construction of or operation of the biogas conditioning and upgrading services. Who takes on those risks (i.e., SCG shareholders, SCG ratepayers, customers of the biogas conditioning and upgrading service)?
- b. Are there any risks associated with stranded assets that would occur during construction of the biogas conditioning and upgrading service facilities or after the facilities are built? For example, the customer cancels service prior to the specified termination date, or the customer defaults on the contract, or the customer sells the site? Who takes on those risks (i.e., SCG shareholders, SCG ratepayers, customers of the biogas conditioning and upgrading service)?

#### RESPONSE 10:

Once initial contact is made between the potential tariff customer and SoCalGas, a dialogue will transpire regarding customer requirements at a high level, and will usually involve SoCalGas providing a budgetary quote. This enables the customer to evaluate their service options in the future.

As described in Ron Goodman's testimony (Chapter II, Section II, p. 3-4), if the customer seeks additional support from SoCalGas and requires a firm bid relative to meeting their detailed requirements, SoCalGas would then collect a Feasibility Services Fee from the customer and conduct a feasibility analysis (Included as Appendix B in the Application) to determine the technical and economic feasibility of the design, equipment procurement, construction, and the operation and maintenance of gas conditioning equipment as necessary to treat the customer owned biogas for use as pipeline quality gas or to other specifications as defined by the customer. The Feasibility Services Fee would cover all intended SoCalGas costs relative to providing the customer with a firm bid, including administering the bid process. If at any time after the fee is collected, prior to the customer signing a Services Agreement with SoCalGas, the customer decides to not accept the terms of the Agreement, the customer would forfeit this fee. At this point, the collected funds have been intended to cover any booked time spent on the project and will be reconciled through SoCalGas' miscellaneous revenues account for later distribution back to ratepayers.

#### SOUTHERN CALIFORNIA GAS COMPANY BIOGAS CONDITIONING & UPGRADING TARIFF (A.12-04-024) (DATA REQUEST DRA-A1204024-SCG-MK3-1)

If at any time after the Services Agreement is signed by the customer, and the customer decides not to move forward with the project, SoCalGas would seek additional 'out of pocket' expenses if applicable, from the customer in the form of a letter of credit. The level of protection afforded by the letter of credit would be evaluated prior to the execution of a Services Agreement between the customer and SoCalGas.

If the EPC fails to meet the project requirements after the Services Agreement is executed, SoCalGas would seek liquidated damages from the EPC in order to remedy the problem such that the project scope and timeline would not be compromised. This form of protection would insulate SoCalGas, its shareholders, and ratepayers from any cost exposure. The liquidated damages level of protection from the EPC would be evaluated prior to an executed agreement between SoCalGas and the EPC.

A typical project will take 12-18 months to complete, once the Services Agreement is executed. If a pipeline interconnection is not required, this time may be reduced. Following the construction period, SoCalGas would contract with an Operation and Maintenance service provider (O&M), who would contract as a 3<sup>rd</sup> party vendor to SoCalGas for the purposes of maintaining the BCS plant for the term set forth in the Services Agreement.

As with any other tariff service, the infrastructure assets used in providing that service are ratebase assets and any customer specific charges are treated as miscellaneous revenues. If SoCalGas constructs and places into operation a biogas conditioning/upgrading facility on behalf of a customer, that specific customer will be charged the full cost of service including capital, O&M and all applicable overheads for the specific project. Those assets will be incorporated into ratebase and the associated customer revenues will become part of miscellaneous revenues in the next GRC proceeding. If a customer files for bankruptcy, cancels service, or is ultimately unable to pay for any reason for the infrastructure installed on its behalf, SoCalGas will first exhaust all commercial and legal remedies to collect the remaining balance due and the required costs to remove and redeploy the asset from the customer premises. If the asset cannot be redeployed it will be retired. SoCalGas shareholders bear the economic loss between GRC's until the remaining undepreciated capital invested is rolled-in to ratebase along with miscellaneous revenues forecasts associated with Biogas Conditioning/Upgrading Services Tariff for approval in the subsequent GRC.

#### **QUESTION 18:**

SGC claims to be able to accurately pre-calculate costs over the life of service of biogas facilities, and to use these calculations in setting tariff rates. Please provide an overview of the methodology used for this pre-calculation. In addition, please provide a year over year breakdown of costs and obligations for a sample biogas services project over the full life of the facility. Include a cost breakdown for all phases of the project including customer outreach, contract development, engineering and cost estimation, engineering oversight, procurement and construction, operations and servicing and/or all other appropriate project phases. Please estimate a timeframe for each phase. For each phase of the project, indicate costs and revenues, and indicate whether these costs and revenues accrue to ratepayers, tariff customers, or shareholders. Please specify the specific point in time at which ratepayers are made whole (i.e., tariff revenues credited >= ratepayer funded revenues in rates for the facility). Also include the estimated total service life of the project and typical contract duration for the tariff customers.

Year	Project Phase	Ratepayers	Tariff Customer	Shareholders
0	Customer Outreach			Incur Proj Costs of \$XXX
	Contract Development		<ul> <li>Incur Proj. Feasibility <i>Pee</i> Of \$X</li> <li>Incur site evaluation and design fees of \$Y</li> </ul>	Incur Proj Costs of \$YYY
	Engineering/ Cost Estimation	Pay Revenue Require     of \$XXX		Receive Return on Investment of \$XXX
	Engineering Oversight		•	Receive Return on Investment of \$XXX
	Procurement and Construction	<ul> <li>Pay Revenue Require of \$XXX</li> <li>Credited Tariff Revenues of \$YYY</li> </ul>		Receive Return on Investment of \$XXX

A sample table is included below, which breaks down the project into phases and clearly delineates responsibilities.

1	Operations and	Pay Revenue Require	Incur AnntJal Service	Receive Return on
	Servicing	of \$XXX	Fee of \$XXX	Investment of \$XXX
	-			
		Credited Tariff		
		Revenues of \$YYY		
2			Incur Annual Service	Receive Return on
2			Fee of \$XXX	Investment of \$XXX
	1		Incur Annual Service	
			Fee of \$XXX	
Yr X	Tariff Contract ends			Receive Return on
				Investment of \$XXX
	Ratepayers made	Total Revenues paid =		Receive Return on
	whole	Tariff Revenues credited		Investment of \$XXX
Yr45	Facility End of Life			Receive Return on
				Investment of \$XXX
	Facility Removed			Receive Return on
				Investment of \$XXX

#### **RESPONSE 18:**

Pre-calculation of capital costs involves definition of the project scope, specifications and layout followed by estimation of costs for engineering, equipment and site construction. These estimates are generally provided by outside engineering consultants or internal engineering staff. Operations and maintenance costs are estimated using historical cost information and analysis provided by qualified consulting engineers and/or internal resources. For both capital and O&M, SoCalGas will, as a general practice, seek supplier bids prior to finalization of contract price in order to ensure accurate cost estimation. As appropriate, a contingency will be added to cost estimates in order to reach a high level of confidence that revenues will cover or exceed project costs. Once the base capital and O&M costs have been developed, standard utility overheads are added according to the procedures described in detail in the testimony of Ms. Joscelyne.

onclu	sions				
Ŷ	ears 1-3: Embedded costs returned to ratepayer from revenue				
	collected from customer via balancing account				
Ŷ	Years 4-20: Net cost to ratepayer is \$0				
Y	'ears 1-20: Shareholder net revenue is equal to authorized ROE of 10.82%				
nera	al Assumptions				
C	Contract Term of 15 years				
E	Book Life of 15 years				
S	alvage Value Included				
C	Cost Escalation Included				
C	Dverhead Loading Included				
F	ederal Tax rate of 35.00%				
<u>ر</u>	tate Tax rate of 8.84%				
2					
	'ear 4 is beginning of next GRC cycle				
Ŷ	'ear 4 is beginning of next GRC cycle Ird Party Maintenance provided over the entire contract length				

	Total	0&M	Capita
Fotal Fully Loaded Cost (Labor)			
Customer Outreach	546	-	546
Contract Development	58,192	-	58,192
Engineering and Cost Estimation	59,771	-	59,771
Engineering Oversight	166,197	-	166,197
Procurement and Construction	80,912	-	80,912
Operations and Servicing	928,125	928,125	-
Total Labor	\$1,293,742	\$928,125	\$365,61
Fotal Fully Loaded Cost (Non-Labor)			
Customer Outreach	-	-	-
Contract Development	-	-	-
Engineering and Cost Estimation	10,508	-	10,508
Engineering Oversight	7,597,284	-	7,597,284
Procurement and Construction	-	-	-
Operations and Servicing	5,591,760	5,591,760	-
Total Non-Labor	\$13,199,552	\$5,591,760	\$7,607,793

Please see attached workbook for year-by-year calculations.

#### **QUESTION 19:**

What was SCG's reasoning behind the choice of a 12 year term for biogas conditioning/upgrading contracts?

#### RESPONSE 19:

SoCalGas is unsure as to why DRA believes SoCalGas selected a 12 year agreement term. As stated in Chapter II, page 3, line 9, "SoCalGas will provide the biogas conditioning/upgrading service tariff under a long term (**10 to 15 year**) service agreement". The biogas conditioning/upgrading equipment can generally last 15 years without any significant rebuild costs. Contract term length is negotiated with the customer; however, despite the contract term length, the full capital cost will be recovered from the BCS customer.

#### **QUESTION 21:**

How will SCG respond if cost of service differs from pre-calculated estimates? If SCG collects more from tariff customers than the cost of service, who receives the excess funds? If SCG collects less from tariff customers than cost of service who makes up for the shortfall? Is there any instance in which ratepayers would be responsible for such a shortfall? Is there a mechanism in place to raise or lower tariff obligations to ensure that tariff collections match cost of service over the life of the contract? If so, please describe.

#### **RESPONSE 21:**

In the case where SoCalGas collects more from tariff customers than the cost of service, SoCalGas shareholders will receive the benefits in between general rate case cycles. In the next general rate case, the undepreciated capital investment will be rolled into ratebase along with the miscellaneous revenues forecast, for commission approval. A reduction to base margin was designed to keep rates neutral to this transaction; however, in this case ratepayers will now benefit from the excess tariff revenues. The opposite will be true in the case where SoCalGas collects less from tariff customers than the cost of service.

This cash flow structure creates a strong incentive for SoCalGas to be conservative in cost estimation and contingency calculations—uneconomic projects will jeopardize shareholder earnings. Therefore, while no formal mechanism exists to readjust tariff obligations when cost of service differs from pre-calculated estimates, it seems more likely that projects will be priced in a conservative manner and the net result will be ratepayer and shareholder benefits as tariff revenues are higher than pre-calculated estimates.

SoCalGas has the ability to unilaterally re-price the contract under three situations: 1) when there is a change in the quality or quantity of untreated biogas from the agreed upon specifications, 2) when the biogas producer fails to meet any of its responsibilities under the agreement, or 3) a suspension or change in the services as a result of a change in law or some latent site defect. The biogas producer can request a change in pricing, but only subject to SoCalGas' approval.

# 1 ATTACHMENT 2 – DRA DATA REQUEST 2

# SOUTHERN CALIFORNIA GAS COMPANY BIOGAS CONDITIONING & UPGRADING TARIFF (A.12-04-024)

### (DATA REQUEST DRA-A1204024-SCG-MK3-2)

#### **QUESTION 2:**

In DRA Data Request 1, question 1, SoCalGas, asked to quantify all benefits to ratepayers from the proposed tariff offering, states that the benefits are "qualitative and quantifiable environmental benefits to ratepayers". Are any of these benefits unique to SoCalGas' tariff offering? Would these same benefits occur if an unregulated affiliate were to provide this service? A market participant?

#### **RESPONSE 2:**

These benefits are not solely unique to SoCalGas' tariff offering. Any customer or third party service provider who is interested in conditioning/upgrading biogas may realize the same environmental benefits including greenhouse gas reduction and an increase in alternative fuel sources.

# SOUTHERN CALIFORNIA GAS COMPANY BIOGAS CONDITIONING & UPGRADING TARIFF (A.12-04-024)

#### (DATA REQUEST DRA-A1204024-SCG-MK3-2)

#### **QUESTION 3:**

In response to DRA Data Request 1, question 2, SoCalGas states that "no incremental costs will accrue to ratepayers as a result of this application."

- a. Please explain how staff time and any other costs incurred in drafting this tariff were funded, and if that staff time did in fact cause no incremental costs to accrue to ratepayers.
- b. Is there any possibility that as a result of the default of a contract holder under this tariff, a cost will accrue to ratepayers?
- c. Is there any possibility that SoCalGas' insurance liability for projects constructed under this tariff would result in a cost to ratepayers?
- d. Please explain how, at the point at which an asset constructed under this potential tariff is rolled into ratebase, the resulting increase in rates amounts to no incremental cost to ratepayers.

#### **RESPONSE 3:**

- a. Developing a tariff application is part of the utility's normal course of business; so as a result, all funding necessary to support the composition of the tariff has been justified through previous general rate case filings.
- b. In the event of a default, SoCalGas will first exhaust all commercial and legal remedies to collect the remaining balance due and the required costs to remove and redeploy the asset. If the asset cannot be redeployed, it will be retired. SoCalGas shareholders bear the economic loss between General Rate Cases until the remaining undepreciated capital invested is rolled-in to ratebase along with miscellaneous revenues forecasts associated with Biogas Conditioning/Upgrading Services ("BCS") Tariff for approval in the subsequent General Rate Case.
- c. SoCalGas does not foresee insurance liability for projects constructed under this tariff resulting in additional costs to ratepayers, but such increases are theoretically possible. SoCalGas is currently self-insured for \$4 million. The cost of claims within our self-insured retention and the cost of insurance are both presented in our general rate cases (GRCs) and recovered on a forecast basis. To the extent that biogas-related claims increase our self-insured retention costs or insurance costs, there could be a related change to the cost forecasts we present to the CPUC in future GRCs.

**d.** Rates paid by ratepayers are calculated based on the base margin amount authorized in the GRC. In the case of the BCS tariff, the customer payments are recorded into the miscellaneous revenue account while the asset is included in ratebase. As these two costs offset, there is no increase to base margin.

## SOUTHERN CALIFORNIA GAS COMPANY BIOGAS CONDITIONING & UPGRADING TARIFF (A.12-04-024)

(DATA REQUEST DRA-A1204024-SCG-MK3-2)

#### **QUESTION 6:**

SoCalGas stated in response to DRA Data Request 1 question 15 that "the pending General Rate Case requests no incremental revenue to cover services proposed under the Biogas Conditioning/Upgrading Service Tariff." SoCalGas further states, in response to question 16 that "the utility groups needed to implement the Biogas Conditioning/Upgrading Services do not have any extra resources." SoCalGas states in response to question 15 that if "existing resources are not adequate to meet the number of requests for service under the proposed tariff, work will be contracted out or utility staff will be added."

If this tariff were approved and adopted by producers at the conservative rate of 2 projects per year, according to the numbers given in DRA Data Request 1 question 15, in year 3, 4.14 FTE employees would be working on the biogas tariff.

- a. As these groups have no excess resources, and as they are tasked nonetheless with extra work for 4.14 FTE employees, will the proposed tariff result in some portion of the work approved and funded in the pending GRC not being completed?
- b. How will SoCalGas make the determination when deciding between using existing staff for the excess work and with adding new staff or contracting out?
- c. In the event utility staff are added due to a lack of existing resources, who will accrue the costs incurred in recruiting, hiring, training, and in benefits and salaries for the new staff? Would this be considered an incremental cost to ratepayers?

#### **RESPONSE 6:**

- a. If approved, the proposed tariff will not compromise work planned for completion as described in the pending GRC. As previously stated in SoCalGas' response to DRA-A1204024-SCG-MK3-1, Question 15, the workload and staff availability in the relevant departments will depend upon other forms of the project activity and new service requests. In the event that existing resources are not adequate to meet the number of requests for service under the proposed tariff, work will be contracted out or utility staff will be added.
- b. See response to Question 6a.
- c. Costs associated with recruiting and hiring, customarily performed by the Human Resources department, has been captured in the Administrative and General overhead – this "overhead represents cost of administrative and general support provided by functional areas such as, Accounting and Finance, Human Resources, Information Technology and Tax" (Chapter III, page 7). Training

would be handled within the Biofuels team and no additional personnel will be required or hired to train a new employee; there are no incremental costs associated with this activity. Salaries would be an incremental cost and would be direct charged to the project; factored into the pricing of the contract and paid for by the specific customer. Additionally the benefits of the new employees would be an incremental overhead cost and, similar to Administrative and General overhead above, and will be captured in the total project cost. Chapter III, Section B details the incremental overheads applicable to the project costs. Incremental labor costs and overheads that are considered incremental will be captured and charged to the customer.

# 1 ATTACHMENT 3 – DRA DATA REQUEST 3

#### **QUESTION 20:**

Does SoCalGas have any experience upgrading and processing biogas? Identify any efforts proposed or initiated by SoCalGas to upgrade or condition biogas, along with the following information:

- a. What was the nature of the proposed or implemented program?
- b. How much ratepayer funding was requested for each proposal?
- c. How much ratepayer funding did each proposal ultimately receive?
- d. What were the benefits to ratepayers of each proposal?
- e. How long did each project continue?
- f. If project has been discontinued, please indicate the reason SoCalGas chose to discontinue the program.
- g. If the project has been discontinued, were there ratepayer costs associated with the discontinuation of the project? Please quantify those costs.

#### **RESPONSE 20:**

# SoCalGas' Experience Upgrading and Processing Biogas

In response to California's environmental policies<sup>1</sup> that support and promote the development of bioenergy resources, SoCalGas has developed a biogas upgrading demonstration project at a wastewater treatment plant. Initial work on this demonstration project began in 2009 and the Hale Avenue Resource Recovery Facility (HARRF), a wastewater treatment plant in Escondido, was selected as the site for the demonstration project. Plant design, construction and installation were completed in 2010.

The biogas upgrading plant has operated from February 2011 to the present. During this time the plant has consistently produced biomethane that meets SoCalGas' Rule 30 gas quality specifications

<sup>&</sup>lt;sup>1</sup> Environmental policies as stated in Witness Snyder's Testimony

# Proposed Program #1 – Biogas Conditioning and Production Facility Services (SoCalGas AL 4172)

a) See Witness Lucas' Supplemental Testimony and SoCalGas AL 4172 below.

Lucas\_Supplemental SoCalGas\_AL4172.p Testimony 011813 FI df

- b) No ratepayer funding was requested
- c) No ratepayer funding was received
- d) Please see response to question (a).
- e) Not applicable
- f) Not applicable
- g) Not applicable

# Propose Program #2 – Sustainable SoCal Program (SoCalGas' General Rate Case, A.10-12-006)

- a) See link to Witness Wrights Testimony (below), starting on page GAW-89 <u>http://socalgas.com/regulatory/documents/a-10-12-</u> <u>006/Testimony/Exh%20SCG-09%20G Wright Cust Serv - Info .pdf</u>
- b) TY 2012 \$11.2 Capital, \$606K O&M
- c) As of the date of this data request response, a proposed decision for SoCalGas' 2012 GRC has not been issued.
- d) Please see response to question (a)
- e) Not applicable
- f) Not applicable

Remainder of original response is REDACTED because it was marked as confidential and is not relied on in DRA Report

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- ATTACHMENT 4 EXCERPT FROM A.11.11.011, Exhibit DRA-01, p.11-13

1 facility and those offered by other non-utility market participants to help determine if SoCalGas is undercutting the market. $\frac{30}{10}$  AL 4337 Confidential Attachment D shows 2 SoCalGas' LAUSD Service Fee Calculation though it is unclear to DRA how any of the 3 4 numbers in Attachment D are arrived at. SoCalGas should be required to develop and 5 distribute workpapers which clearly and transparently demonstrate the translation of the 6 proposed LAUSD facility requirements to the monthly service fee that SoCalGas will charge 7 LAUSD in order to recover all costs. SoCalGas should also be required to provide 8 workpapers which transparently divulge all SoCalGas costs and resources utilized to-date in 9 the development of the LAUSD facility design/proposed tariff/compression service 10 agreement, construction of the facility, and administration of the project. SoCalGas should 11 also explain the funding source for the project (i.e., ratepayers, embedded resources, 12 shareholders). 13 14 F) THERE ARE NO SUBSTANTIAL, TANGIBLE RATEPAYER BENEFITS ASSOCIATED WITH THE APPLICATION YET RATEPAYERS TAKE ON ALL 15 16 **OF THE DOWNSIDE RISK OF THE APPLICATION** 17 SoCalGas claims that ratepayers receive financial and environmental benefits from the proposed tariff.  $\frac{31}{2}$  But SoCalGas has not demonstrated in the application that ratepayers 18 19 indeed will receive any substantial or tangible financial benefits. However, the ratepayers 20 will bear substantial financial downside risk. 21 DRA's analysis of SoCalGas A.11-11-01 has shows there is no financial upside for 22 ratepayers, only substantial downside risk. SoCalGas claims that any resources or costs 23 incurred in providing the gas compression service will be properly tracked and ratepayers will be credited for any embedded costs already included in general rates.<sup>32</sup> Essentially, 24

**<sup>30</sup>** Per the April 27, 2012 meeting between DRA, SoCalGas, and LAUSD it is DRA's understanding that LAUSD solicited bids (but did not hold a competitive Request for Offers (RFO)) from at least two non-utility market participants, one or both of which are intervenors in this proceeding.

<sup>&</sup>lt;u>31</u> Lines 5 to 6, Page 4, Chapter I, Policy Support, Prepared Direct Testimony of Jeffrey G. Reed, A.11-11-011, November 3, 2011.

<sup>32</sup> Lines 17 to 23, Page 2, Chapter III, Prepared Direct Testimony of Edward J. Reyes, A.11-11-011,

<sup>(</sup>continued on next page)

1 SoCalGas proposes that ratepayers float the funds and resources needed to implement the 2 service and at a later date (which is undefined) SoCalGas will credit ratepayers back the 3 equivalent amount so that ratepayers remain "square." One obvious problem with this plan 4 is that if SoCalGas does not properly track and account for every cost and do so diligently 5 for the life of the program, then ratepayers may not be fully repaid. Along these lines it is 6 also unclear how long it will take for ratepayers to be fully paid back. Does this occur before 7 the gas compression facility goes into production or at the end of the 12-20 year life of the 8 facility or later? SoCalGas does not appear to be offering ratepayers any interest on the costs 9 and resources used to front service. These are only a couple of the many risks that ratepayers 10 would take on under SoCalGas' proposal.

11 Another substantial risk rate payers take on is in the event that a customer of the gas 12 compression service for one reason or another, abandons the property, goes bankrupt, 13 cancels the project midstream, stops paying the monthly service fee, or sells the property to a 14 new owner who does not want the service. SoCalGas claims it will first exhaust all 15 commercial and legal remedies to collect the remaining balance due or costs to try and redeploy the assets.<sup>33</sup> But if the asset cannot be redeployed it will be retired and the 16 17 underdepreciated capital invested is rolled-in to ratebase along with the revenue forecasts 18 associated with the services. That means that ratepayers would end up ultimately paying so 19 that SoCalGas suffers no loss. SoCalGas claims that parties such as DRA could fight to keep 20 those losses and revenues from being rolled into ratebase but the onus would be on 21 intervenors to stop that from happening. Again, no upside, only potential downside risk. 22 Another substantial risk is in the event that SoCalGas decides to or is ordered to sell existing gas compression facilities.<sup>34</sup> If this would occur, there could be more losses that 23

24 SoCalGas would try to recover in the next GRC. In 1995, D.95-11-035 removed the

25 authority for SoCalGas to recover costs for NGV refueling facilities. The facilities that

<sup>(</sup>continued from previous page)

November 3, 2011.

 <sup>33</sup> SoCalGas response to DRA data request SCGA1111011-DRA-DBP-1(see attachment A), question 3b.
 <sup>34</sup> SoCalGas response to DRA data request SCGA1111011-DRA-DBP-1(see attachment A), question 13.

SoCalGas sold originally cost \$40 Million but only sold for \$2.7 Million.<sup>35</sup> Again, in this
 event, SoCalGas would be expected to try and recover the loss from ratepayers in the next
 GRC. More downside, no upside for ratepayers.

Another risk ratepayers would take on is liability during the construction and operation of the gas compression facility. There could be an accident or explosion of some sort. DRA understands that the insurance policies that SoCalGas currently carries would be used in this case.<sup>36</sup> This appears to be a cross subsidy in that the gas compression services would now be piggybacking on the insurance policy that ratepayers are funding for other purposes. In the end, ratepayers would be taking on additional liability risk from the gas compression services program. More downside for ratepayers, no upside.

All of these examples show some of the substantial risks that SoCalGas' ratepayers would take on under A.11-11-011. As stated earlier, the best that ratepayers can do financially under the A.11-11-011 is to break even.<sup>37</sup> Decision D.93-07-054 gave clear direction that recovery of costs associated compressed natural gas fueling facilities is to be limited to programs are <u>substantially</u> in the ratepayers long-term interests. There is <u>nothing</u> in A.11-11-011 that is in the ratepayers long-term interest, only downside risk.

In regard to the environmental benefits, the current application lacks measurements to determine the extent that environmental benefits are accrued. The Commission has already established numerous programs to further environmental policies to benefit the general public. Ratepayer money would be more effectively spent by enhancing already established and known programs that lack uncertainty, do not involve startup costs, and are less risky for ratepayers.

23

<sup>&</sup>lt;sup>35</sup> White Paper: What is the Appropriate Role of Natural Gas Utilities in the Natural Gas Vehicle Refueling Market?, Covington & Burling LLP, November 1, 2011, p. 14 (see Attachment 2).

<sup>&</sup>lt;sup>36</sup> SoCalGas response to DRA data request SCGA1111011-DRA-DBP-1(see attachment A), question 3a.

<sup>&</sup>lt;sup>37</sup> Page 456, CALIFORNIA PUB. UTIL. COMM'N – 50 CPUC 2d.

# 1 ATTACHMENT 5 – REVISED DRA DATA REQUEST 3

#### Revised Responses to Questions 18 and 19 (February 14, 2013)

#### **QUESTION 19:**

Is SoCalGas aware of any previous incidents whereby contaminants were introduced into SoCalGas' natural gas distribution system through pipeline injection of improperly treated gas? If so, list all such incidents including at least the date, location and incident report number [if any], and description of the incident and outcome.

#### **RESPONSE 19:**

With consideration of SoCalGas' Rule 30 the following is a list of incidents and constituents that may have potential human health or pipeline integrity impacts that were introduced into SoCalGas' natural gas distribution system through a suppliers' improperly treated gas, and the resulting measures taken by SoCalGas.

- 1989, 1991, 1993, 1994 internal corrosion and operational problems with regulator due to poor quality producer gas. The outcome was that we enforced gas quality limits and added on-line GCs.
- 1990s employee exposure in Los Angeles and damage to customer appliances due to trace contaminants in Ventura. SoCalGas tested for trace contaminants that caused the problems. The supplier no longer uses or produces the contaminant.
- 1984 H<sub>2</sub>S in Santa Barbara County. H<sub>2</sub>S analyzers with automatic shut offs have been installed at producer sites with H<sub>2</sub>S in their gas.
- 1987 Arsenic from out of state supplier. The well with the arsenic is no longer flowing.
- 1985 Formaldehyde. The producer no longer uses formaldehyde as a treatment chemical.
- 1989-91 Radon in various locations. It has not resulted in an employee exposure problem.
- 1983, 1990 Mercury found at a meter set. The producer no longer flows.
- 1982 PCBs first found in pipeline liquids. However PCBs were never detected in the gas.
- Benzene in various supplies. Supplies are tested for that trace contaminant. It has not resulted in an employee exposure problem.

#### Revised Responses to Questions 18 and 19 (February 14, 2013)

The following are incidents that had impacted pipeline operations due to the major or common natural gas compounds:

- 2000, 2008 outages due to high CO2 in Los Angeles. After the first incident, a GC was installed and after the second incident, access denial was set up after the first alarm and a continuous CO2 analyzer.
- 1990, 1992, 1996, 1997, 2009, 2011 outages and overpressure due to liquids and hydrates in Santa Barbara and San Luis Obispo County and San Joaquin Valley. Reduced water vapor content limits in Rule 30. Added moisture analyzers, and modified regulator stations by adding dryers, heaters or regulators.

# 1 ATTACHMENT 6 – FEDERAL REGISTER, VOL. 54, NO. 108

#### **IV Rulemaking record**

EPA has established a record for this rulemaking (docket number OPTS-42094B). This record includes all information considered in the development of the proposed rule and appropriate Federal Register notices. EPA will continue to supplement the record with additional information as it is received.

The record includes all information referenced in support of the May 20, 1987 proposal and the following information:

#### References

(1) Notice of Proposed Rulemaking, Cyclohexane (52 FR 19096; May 20, 1987).

(2) USEPA. Engineering Assessment: Cyclohexane; Environmental Releases. Prepared by Panka) Garg, Environmental Protection Agency, Office of Pesticides and Toxic Substances, Washington, DC (December 3, 1988).

(3) USEPA. Toxic Release Inventory System: Chemical Profile Report for Cyclohexane. Environmental Protection Agency, Office of Pesticides and Toxic Substances, Washington, DC (April 20, 1989).

#### V Other Regulatory Requirements

EPA discussed Executive Order 12291, The Regulatory Flexibility Act, and the Paperwork Reduction Act in detail in the May 20, 1987 proposal; and no changes are indicated for this notice.

# List of Subjects in 40 CFR Parts 795 and 799

Testing, Environmental protection, Hazardous substances, Chemicals, Recordkeeping and reporting requirements.

Dated: May 30, 1989.

#### Dwain Winters,

Acting Director, Office of Toxic Substances. [FR Doc. 89–13477 Filed <del>8–6–89</del>; 8:45 am] BILLING CODE 6560-50-M

#### DEPARTMENT OF TRANSPORTATION

#### Research and Special Programs Administration

#### 49 CFR Part 192

[Docket No. 106; Notice 1]

#### Transportation of Hydrogen Sulfide by Pipeline

**AGENCY:** Research and Special Programs Administration (RSPA), U.S. Department of Transportation (DOT).

ACTION: Advance notice of proposed rulemaking (ANPRM).

SUMMARY: This notice requests information to determine the need for regulations to control the concentration of hydrogen sulfide  $(H_2S)$  in natural gas pipeline systems. There have been several instances in which  $H_2S$  has entered pipelines inadvertently. High concentrations may be extremely toxic if released and  $H_2S$  is detrimental to steel pipe.

DATES: Interested parties are invited to submit comments by September 5, 1989. ADDRESSES: Send comments in duplicate to the Dockets Unit, Room 8417 Office of Pipeline Safety, Research and Special Programs Administration, U.S. Department of Transportation, 400 Seventh Street, SW., Washington, DC 20590. Identify the docket and notice numbers stated in the heading of this notice. All comments and docketed material will be available for inspection and copying in Room 8426 between 8:30 a.m. and 5:00 p.m. each business day.

#### FOR FURTHER INFORMATION CONTACT:

Cesar De Leon, (202) 366–4583, regarding the subject matter of this document, or the Dockets Unit, (202) 366–5046, for copies of this document or other material in the docket.

#### SUPPLEMENTARY INFORMATION:

#### Background

Natural gas produced from some gas production wells has significant concentrations of toxic H<sub>2</sub>S. This gas, commonly called "sour gas" is "sweetened" by removing the H<sub>2</sub>S from the natural gas in treatment plants before the natural gas is introduced into the transmission pipelines. The Mary Ann Field in Mobile Bay in Alabama produces natural gas averaging 7½ percent or 75,000 parts per million (PPM) of H<sub>2</sub>S.

At present, the federal gas pipeline safety regulations, 49 CFR Part 192, do not specifically address all the safety risks associated with the presence of  $H_2S$  in natural gas, such as those involving sulfide stress cracking and toxicity effects.

Hydrogen sulfide is a toxic, colorless, flammable gas which is poisonous, if inhaled, especially at concentrations in excess of 300 PPM ( $\frac{3}{10}$  of 1 percent). Persons will lose consciousness after 5 minutes of breathing H<sub>2</sub>S at concentrations of 100 PPM and death results very quickly thereafter.

Considerable research has been conducted to describe the effects of  $H_2S$ on the sulfide stress cracking of line pipe and to additionally describe the effects of stress corrosion cracking mechanisms in line pipe [1]. Research has shown a substantial increase in threshold stress (stress below which  $H_2S$  has no effect on sulfide stress cracking) with decreasing  $H_2S$ concentration [2]. For  $H_2S$  concentrations of 5 PPM or less there is no measurable effect on the sulfide stress cracking potential for high strength steel pipe. For high concentration of H<sub>2</sub>S (>3,000 PPM) and applied stress levels above 70 percent of the yield stress, the time to failure decreases dramatically [2, 3].

#### Recent Incidents Reported by NTSB Involving Releases of H₂S Into Gas Pipeline Systems

California. One incident [4] arose on December 28, 1983, when the Pacific Offshore Pipeline Company's (POPCO) Las Flores Canyon Gas Treatment Plant was placed in service. Impurities, including H<sub>2</sub>S, were to be removed from producing wells in the Santa Ynez Unit (an offshore field in the Santa Ynez Unit (an offshore field in the Santa Barbara Channel). The cleaned gas would be delivered by pipeline to the Las Flores Canyon Gas Treatment Plant where POPCO would then deliver it to the Southern California Gas Company (SCG) system for distribution to its natural gas customers.

Due to the failure of an automatic gas analyzer, gas was contaminated by 200 PPM of H<sub>2</sub>S and entered the SCG distribution system. The analyzer was repaired following the interruption of gas flow. After the gas flow was reinitiated, further analysis indicated 16 PPM H<sub>2</sub>S in the gas stream and flow was again stopped. The Occupational Safety and Health Administration (OSHA) regulations limit long term exposure levels of people to H<sub>2</sub>S at 10 PPM. This introduction of H2S into the SCG distribution system resulted in a notification of evacuation for over 20,000 people.

A second incident [4] involving  $H_2S$ entering the SCG system occurred on May 12, 1984, at the Wilmington, California, gas delivery point. Following this incident, the California Public Utilities Commission (PUC) requested that all SCG locations that could receive contaminated gas be equipped with automatic  $H_2S$  analyzers and shut-off equipment. The shut-off concentration would be set at between 4 PPM and 10 PPM.

As a result of these incidents in California, the California PUC has required that its previously determined upper limit be monitored by automatic equipment on a daily basis at gas supply points.

Texas. On August 11, 1987 automatic  $H_2S$  monitoring equipment at the KG Gas Processors, Limited, gas processing plant near Winters, Texas, indicated that an excessive amount of  $H_2S$  was entering the gas stream being delivered to Lone Star Gas Company [4]. The

## 1 QUALIFICATIONS AND PREPARED TESTIMONY OF

## 2 MATTHEW A. KARLE

- 3 Q.1 Please state your name and address.
- A.1 My name is Matthew A. Karle. My business address is 505 Van Ness
   Avenue, San Francisco, California.
- 6 Q.2 By whom are you employed and in what capacity?
- A.2 I am employed by the California Public Utilities Commission as a Public
   Utilities Regulatory Analyst in the Division of Ratepayer Advocates'
   Energy Cost of Service and Natural Gas Branch.
- 10 Q.3 Briefly describe your educational background and work experience.
- 11 A.3 I hold a Master of Arts Degree in Government from California State
- 12 University Sacramento, as well as a dual Bachelor of Arts in Political
- 13 Science and English from San Francisco State University. Since joining
- the Commission in 2012, I have conducted research and analysis in a
- number of natural gas related proceedings. I have previously sponsored
- testimony before the Commission in the ongoing rulemaking on the
- 17 transfer of master-metered mobile home parks to direct utility service.
- 18 Q.4 What is your area of responsibility in this proceeding?
- 19 A.4 I am responsible for Exhibit DRA-01.
- 20 Q.5 Does that complete your prepared testimony?
- A.5 Yes, it does.

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