Application No:	A.11-11-002
Exhibit No.:	<u>SCG-02</u>
Date:	December 2, 2011
Witness:	Richard Morrow

In the Matter of the Application of San Diego Gas &) Electric Company (U 902 G) and Southern California Gas Company (U 904 G) for Authority to Revise Their Rates Effective January 1, 2013, in Their Triennial Cost Allocation Proceeding.

A.11-11-002

(Filed November 1, 2011)

CHAPTER II

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AMENDED DIRECT TESTIMONY OF

RICHARD MORROW

OVERVIEW OF THE PROPOSED SAFETY ENHANCEMENT PLAN

IN SUPPORT OF PROPOSED NATURAL GAS PIPELINE SAFETY ENHANCEMENT PLAN FOR

SOUTHERN CALIFORNIA GAS COMPANY AND SAN DIEGO GAS & ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

December 2, 2011

1	II.
2	OVERVIEW OF THE PROPOSED SAFETY ENHANCEMENT PLAN
3	A. <u>The Proposed Pipeline Safety Enhancement Plan is Designed to Meet Four Key</u>
4	<u>Objectives</u>
5	The Pipeline Safety Enhancement Plan was developed to accomplish four overarching
6	objectives: (1) compliance with the Commission's directives; (2) enhancement of public safety;
7	(3) minimization of customer impacts; and (4) maximization of cost effectiveness.
8	1. <u>The Proposed Pipeline Safety Enhancement Plan Complies With the</u>
9	Commission's Directives
10	In D.11-06-017, the Commission describes several key elements that must be included in
11	our proposed Pipeline Safety Enhancement Plan. These key elements are: (1) the completion of
12	the review of records in response to NTSB Safety Recommendations; (2) a plan to test or replace
13	all pipeline segments that do not have sufficient documentation of pressure testing to satisfy the
14	requirements of 49 CFR 192.619(a)(b) or (d); (3) the prioritization of pipeline segments in
15	populated areas and segments with the highest risk; (4) an expeditious timeline; (5) retrofitting to
16	allow for in-line inspections and, where appropriate, improved valves; (6) interim safety
17	enhancement measures; (7) best available expense and cost projections for each plan element; and
18	(8) a rate proposal that provides detailed information regarding projected rate impacts. Our
19	proposed Pipeline Safety Enhancement Plan includes all of these required elements, as
20	summarized below.
21	a) <u>The Proposed Pipeline Safety Enhancement Plan Includes a Description of</u>
22	the Completion of Our Review of Records in Response to NTSB Safety
23	Recommendations
24	In D.11-06-017, the Commission directs SoCalGas and SDG&E to "complete their work
25	in response to the National Transportation Safety Board's [NTSB] recommendations and the
26	Commission's Resolution L-410." ⁵ Accordingly, in Section IV.C below, we provide a

<u>5</u> D.11-06-017, Ordering ¶ 2.

description of the records review process we completed in response to the NTSB's

2 recommendations and Commission Resolution L-410, and further describe the status of the

3 records review process with respect to the remaining pipeline segments that were not addressed in

4 the NTSB's Safety Recommendations or Commission Resolution L-410, but must nevertheless be

The Proposed Pipeline Safety Enhancement Plan Includes a Plan to

Pressure Test or Replace All Pipeline Segments That Do Not Have

Sufficient Documentation of Pressure Testing In Accordance with

5 8	addressed	per	D.1	1-06-	-017
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49 CFR 192.619(a)(b) or (d)

D.11-06-017 requires SoCalGas and SDG&E to propose a plan "to comply with the 10 requirement that all in-service natural gas transmission pipeline in California has been pressure 11 tested in accord with 49 CFR 192.619, excluding subsection 49 CFR 192.619(c)."⁶ This 12 proposed plan must "set forth criteria on which pipeline segments were identified for replacement 13 instead of pressure testing."⁷ And a pressure test record "must include all elements required by 14 the regulations in effect when the test was conducted. For pressure tests conducted prior to the 15 effective date of General Order 112, one hour is the minimum acceptable duration for a pressure 16 test."⁸ SoCalGas and SDG&E's proposed plan to meet this objective is set forth in Section IV.D. 17 below. 18

 19
 c)
 The Proposed Pipeline Safety Enhancement Plan Prioritizes Pipeline

 20
 Segments in Populated and High Consequence Areas and Those Operated

 21
 at Higher Stress Levels

The proposed plan must "start with pipeline segments located in Class 3 and Class 4 locations and Class 1 and Class 2 high consequence areas, with pipeline segments in other locations given lower priority for pressure testing."⁹ Moreover, the plan must prioritize "critical pipelines that must run at or near [MAOP] values which result in hoop stress levels at or above

 $[\]underline{6}$ *Id.*, Ordering ¶ 4.

 $[\]underline{7}$ Id., Ordering \P 6.

 $[\]underline{8}$ *Id.*, Ordering \P 3.

 $[\]underline{9}$ *Id.*, Ordering \P 4.

30% of Specified Minimum Yield Stress."10 "Although not the determinative factor, improved 1 safety effects for amounts expended must be considered in prioritizing projects. Segments with 2 the highest risk, however, must be tested or replaced first.¹¹ The decision-making and 3 prioritization process described in Section IV.D meets these requirements. 4 d) SoCalGas and SDG&E Propose an Expedited Timeline for Implementation 5 of the Proposed Pipeline Safety Enhancement Plan 6 The plan "must reflect a timeline for completion that is as soon as practicable." 12 7 SoCalGas and SDG&E comply with this requirement by proposing an aggressive schedule for the 8 completion of their proposed Pipeline Safety Enhancement Plan in Section IV.D. The 9 Commission can greatly enhance our ability to meet this ambitious schedule by authorizing the 10 establishment of a Pipeline Safety and Reliability Memorandum Account, as requested in our 11 pending Motion filed May 4, 2011, so that we can begin implementing the Commission's clear 12 directives in D.11-06-017 right away. 13 In addition, later in this Chapter, we describe some of the execution challenges that may 14 15 hinder our ability to meet our proposed schedule, and propose ways in which the Commission may help alleviate some of those challenges. 16 e) The Pipeline Safety Enhancement Plan Includes Proposals for Retrofitting 17 Pipelines to Allow for In-line Inspection and Enhancing Shut-Off Valves 18 The plan "must consider retrofitting pipeline to allow for inline inspection tools and, 19 where appropriate, improved shut off valves."¹³ The Pipeline Safety Enhancement Plan addresses 20 this requirement by proposing to design newly-constructed pipelines to accommodate in-line 21 inspection tools, and by proposing a valve enhancement plan that expands upon our existing valve 22 program. These aspects of the Pipeline Safety Enhancement Plan are set forth in Section IV.D 23 and Chapter V, respectively. 24

<u>12</u> *Id.*, Ordering ¶ 5.

<u>10</u> *Id.*, Ordering ¶ 5.

<u>11</u> *Id.*, Ordering \P 9.

 $[\]frac{13}{Id.}, \text{Ordering } \P 8.$

f) <u>The Pipeline Safety Enhancement Plan Includes Proposed Interim Safety</u> <u>Enhancement Measures</u>

The plan must "include interim safety enhancement measures, including increased patrols 3 and leak surveys, pressure reductions..., and other such measures that will enhance public 4 safety."14 In Section IV.E, the Pipeline Safety Enhancement Plan describes interim safety 5 enhancement measures, including increased frequency of patrols and leak surveys, pressure 6 reductions, and in-line inspections, which have already been implemented to address identified 7 pipeline segments in populated areas, and will be implemented for pipelines in the less populated 8 areas, as segments that do not have sufficient documentation of a pressure test to meet the 9 directives of D.11-06-017 are identified through the ongoing records review process. 10 The Proposed Pipeline Safety Enhancement Plan Includes Best Available g) 11 Expense and Cost Projections for Each Plan Component 12 The proposed plan "must include best available expense and capital cost projections for 13 each Plan component and each year of the implementation period."¹⁵ The proposed Pipeline 14 Safety Enhancement Plan includes best available expense and cost projections for each plan 15 component in Chapter IX below. 16 h) The Proposed Pipeline Safety Enhancement Plan Includes a Rate Proposal 17 and Provides Detailed Information Regarding Projected Rate Impacts 18 The plan "must also include a rate proposal with the following: a. For Pacific Gas and 19 Electric Company only, proposed cost allocation between shareholders and ratepayers; b. Specific 20 rate base and expense amounts for each year proposed to be included in regulated revenue 21 requirement; c. Proposed rate impacts for each year and each customer class; and d. Other such 22 facts and demonstrations necessary to understand the comprehensive rate impact of the 23 Implementation Plan." In Chapter X, we offer a rate proposal that is supported by detailed rate 24 impact analyses for the proposed Pipeline Safety Enhancement Plan. In addition, for comparative 25 purposes, we provide detailed cost and rate impact analyses for a "Base Case" which solely 26

<u>14</u> *Id.*, Ordering \P 5.

<u>15</u> *Id.*, Ordering ¶ 9.

includes the work required under D.11-06-017, without the additional safety enhancing elements proposed by SoCalGas and SDG&E that are not required under D.11-06-017.

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2.

<u>The Proposed Pipeline Safety Enhancement Plan Enhances Public Safety</u>

Safety is a top priority at SoCalGas and SDG&E. Although we are confident in our 4 existing transmission pipeline integrity program and are proud of our excellent safety record, in 5 light of the events in San Bruno and the Commission's directives in this Rulemaking, SoCalGas 6 and SDG&E propose a thoughtful plan that identifies opportunities for increasing that confidence 7 and further enhancing the integrity of the transmission pipeline safety. Consistent with this public 8 safety objective, and the Commission's directives in D.11-06-017, the Pipeline Safety 9 Enhancement Plan identifies pipeline segments in populated and High Consequence Areas that 10 require additional documentation of pressure testing to satisfy the Commission's requirements set 11 forth in D.11-06-017 and proposes a plan to pressure test or replace all such segments. This plan 12 prioritizes pipeline segments in more populated areas ahead of pipeline segments in less 13 populated areas, and also prioritizes pipeline segments based on a comprehensive evaluation of 14 15 risk factors. Because we have already invested significantly in retrofitting our existing pipelines to accommodate in-line inspection tools, other than replacing pipelines that cannot be retrofitted 16 to accommodate in-line inspection tools, there is little room for proposing further enhancement of 17 our transmission system to allow for in-line inspection. We do propose in our Pipeline Safety 18 Enhancement Plan, however, to take advantage of these prior investments and perform in-line 19 inspections of identified retrofitted pipelines as part of our implementation of the plan. In 20 addition, as directed by the Commission, we propose to enhance our current valve system through 21 a proposed Valve Enhancement Plan to reduce the time required to isolate a pipeline segment in 22 the event of a rupture. 23

Consistent with our innovative and proactive approach to pipeline safety, the Pipeline Safety Enhancement Plan also identifies opportunities for further enhancing the integrity of the transmission pipeline system that are not strictly required to meet the Commission's directives in D.11-06-017. Specifically, we propose to retrofit pipelines that will be exposed for testing and newly constructed pipelines with fiber optic technology, which can further enhance the safety of

our system by enabling us to monitor pipeline right-of-way activity in real-time and help drive 1 decisions to send operational crews to investigate when a suspected dig-in has occurred that 2 might, acutely or with some latency, pose a risk to a pipeline's structural integrity. In addition, 3 we propose to retrofit our pipelines to include methane detection monitors, which will enable us 4 to detect gas/air concentration levels approximately ¹/₄ or less of what is typically detected by the 5 human sense of smell of natural gas odorant. More timely identification of gas leaks will support 6 the dispatch of operations personnel to specific locations along the pipeline system when methane 7 is detected. Although these proposed technology enhancements will increase the costs of 8 implementing the proposed Pipeline Safety Enhancement Plan above the Base Case, the 9 completion of the work directed by the Commission in D.11-06-017 presents a unique 10 opportunity for us to cost effectively retrofit our transmission pipelines with the latest state-of-11 the-art technology for sensing conditions that could lead to a pipeline failure long before such a 12 failure might occur. 13

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3. <u>The Proposed Pipeline Safety Enhancement Plan Minimizes Customer</u> <u>Impacts</u>

A third foundational element of our proposed plan is minimization of customer impacts. The implementation of our Pipeline Safety Enhancement Plan will require more work on our infrastructure over a ten-year period than has probably ever occurred during a similar time period ever before in our history. Every element of the Proposed Safety Enhancement Plan described below takes into account potential customer impacts and strives to minimize those impacts as much as possible.

In general, our proposals are guided by policies to provide uninterrupted gas service to customers whenever possible while the plan is being implemented. It is recognized that some of the planned pressure testing may have an impact on supply availability for some customers. We commit to work with our customers on the scheduling of the work and to do all that is reasonable to provide uninterrupted service.

When lines are required to be taken out of service, SoCalGas and SDG&E make every effort to minimize the impact on customers and will continue to do so during our execution of the

proposed Pipeline Safety Enhancement Plan. As work is being planned on the gas transmission 1 pipeline system, project managers work internally with Public Affairs who liaison with 2 government agencies. Customer service account managers work with customers as the projects 3 are planned. We make every attempt to work around customer schedules (e.g., planned outages 4 for maintenance and construction) as much as possible. We work with the California Independent 5 System Operator (CAISO) in advance for planned outages that could affect electric generator 6 availability, and make every attempt to schedule the outage during the low demand shoulder 7 months (i.e., April and November). For large customers, our intent is to keep in constant 8 communication up to, during and after the shutdown and have often provided alternate feeds if 9 outages of any duration are unacceptable. We meet with local city councils to inform them of 10 pending projects, hold "Town-Hall" meetings to inform residents of pending projects and allow 11 them to ask questions, and we provide contact information at each end of the job site. At some 12 locations, we work at night to minimize impacts on traffic and business. 13

As a general guideline, notice for suspension of service to noncore customers, would be provided at least thirty days prior to any scheduled service outages required for implementation of the Pipeline Safety Enhancement Plan.

Although we are constantly inspecting and maintaining our pipelines, customers and the 17 community in general will be seeing more work being performed on pipelines. This may raise 18 questions and concerns about pipeline safety, and requires that we proactively communicate with 19 20 our customers and the community at large about these programs – what is being done and why. Additionally, targeted communications will be required for residents and businesses in areas 21 where the work will be performed to keep them informed of what is being done and how it might 22 affect them. In order to achieve this, the proposed Pipeline Safety Enhancement Plan will be 23 supported by a comprehensive customer and public outreach effort. 24

In order to reach the many key customer groups, this plan encompasses use of a comprehensive blend of communications channels. This will include in-person customer meetings, news releases, community print ads, special events, e-mails and e-newsletters, social, interactive and mobile media, direct mail, bill messages and newsletters, as well as a dedicated

microsite on both <u>www.socalgas.com</u> and <u>www.sdge.com</u>. Specific outreach efforts in areas
where there will be significant work will include local and community meetings, direct mailed
letters sent to residents and businesses prior to commencement of the project, door hangers, email
blasts, and news releases all directing the customer to view the dedicated microsite that will
include interactive maps indicating project locations and timing. Messages will be delivered in
English and Spanish, and other in-language messages will be developed based on the geographic
area of the projects.

8 Each of these outreach efforts will include basic information on pipeline safety, the 9 importance and benefits of the work being done, and how the project will impact nearby residents 10 and businesses. Additionally, an important part of the education is the explanation of the 11 philosophy and framework of how the cost of the program is distributed across customers.

12 13 4.

<u>The Proposed Pipeline Safety Enhancement Plan Maximizes the Cost</u>

Effectiveness of Investments in the SoCalGas/SDG&E Transmission System

Cost effectiveness is the final major guiding principle of our Pipeline Safety Enhancement 14 15 Plan. From the onset of this effort, the SoCalGas and SDG&E approach has been anchored in the philosophy that the goal of our work should be comprehensive system enhancements/ 16 improvements to achieve long-term safety and cost effectiveness. SoCalGas and SDG&E further 17 this goal by crafting a plan that avoids duplication of efforts, complements existing infrastructure 18 and prior investments in the SoCalGas and SDG&E pipeline system, and looks to technological 19 advances in pipeline safety. We believe our plan proposed in the Chapters that follow achieves 20 this objective. 21

B. <u>The Proposed Scope of the Pipeline Safety Enhancement Plan is Comprehensive and</u> the Schedule is Ambitious

In D.11-06-017 the Commission outlines a framework for California to lead the nation in natural gas pipeline safety by exceeding current Federal regulations and requiring that all inservice California transmission pipelines have documentation of pressure testing to meet strict regulatory standards that, prior to the issuance of D.11-06-017, only applied to pipelines constructed and placed in service after 1970.

1 Prior to the issuance of D.11-06-017, in response to the safety recommendations issued by the NTSB to PG&E on January 3, 2011, SoCalGas and SDG&E initiated a thorough review of 2 transmission pipeline segments located in Class 3 and 4 locations and Class 1 and 2 High 3 Consequence Areas to identify those pipeline segments that do not have sufficient documentation 4 of pressure testing to meet modern safety standards. Combined, SoCalGas and SDG&E reviewed 5 the records for a total of 1,622 miles of transmission pipelines operating in Class 3 and 4 location 6 and High Consequence Areas and identified approximately 38516 miles of transmission pipeline 7 that did not have sufficient documentation of pressure testing to satisfy modern requirements. All 8 of these pipeline segments must be tested or replaced in order to satisfy the directives set forth in 9 D.11-06-017. 10

In addition to addressing these 385 miles of transmission pipelines located in Class 3 and 11 4 locations and Class 1 and 2 High Consequence Areas, in order to satisfy the directives set forth 12 in D.11-06-017, SoCalGas and SDG&E will also need to test or replace all remaining pipeline 13 segments that do not have sufficient documentation of pressure testing to satisfy modern 14 standards. Based on preliminary review of records and assumptions based on the review of 15 pipelines located in Class 3 and 4 locations and High Consequence Areas, SoCalGas and SDG&E 16 estimate that about an additional 2,000 miles of transmission pipeline segments will need to be 17 assessed to determine whether they require pressure testing or replacement. 18

Because of the scope and complexity of work required to implement the Commission's 19 20 directives, and to satisfy the Commission's prioritization requirements, we propose to implement our Pipeline Safety Enhancement Plan in two separate phases. Phase 1 covers the ten-year period 21 from 2012 through 2021. This phase includes the pressure testing or replacement of those 22 pipelines in Class 3 or 4 locations and Class 1 and 2 High Consequence Areas that do not have 23 sufficient documentation of pressure testing to satisfy the Commission's directives. Phase 1 also 24 includes the placement of additional remote control and automatic shut-off valves on the 25 transmission system, and installation of technology enhancements to enhance our ability to 26

¹⁶ This figure includes approximately 377 miles of pre-1970 and 8 miles of post-1970 pipelines, as of June 24, 2011. This proposed Pipeline Safety Enhancement Plan does not include any costs for testing or replacing pipelines constructed post-1970.

monitor our transmission pipeline system. As discussed above, and in greater detail in Chapter
IV, our Pipeline Safety Enhancement Plan includes a proposal to replace pre-1946 pipeline
segments that were manufactured using non-state-of-the-art construction and fabrication methods.
This proposal, which is also proposed to be implemented in Phase 1, addresses the Commission's
stated goal of bringing all transmission pipelines in-service in California into compliance with
modern standards, and the directive to consider retrofitting our pipelines to accommodate in-line
inspection tools.

Phase 1 has been broken down into two parts. In Phase 1A, which spans 2012 through 8 2015, we propose to pressure test or replace the 385 miles of transmission pipelines located in 9 Class 3 and 4 locations and High Consequence Areas that do not have sufficient documentation of 10 pressure testing to satisfy modern standards. Any Phase 1A pipeline segments that cannot be 11 tested or replaced with manageable customer impacts during the 2012 through 2015 timeframe 12 will be addressed in Phase 1B, which spans the years 2016 through 2021. Also in Phase 1B, 13 SoCalGas and SDG&E propose to replace pre-1946 pipeline segments that were manufactured 14 15 using non-state-of-the-art construction and fabrication methods.

In Phase 2, we propose to address all remaining transmission pipelines that do not have 16 sufficient documentation of pressure testing to satisfy the Commission's directives. The review 17 of the records for these pipeline segments will be completed by July 2012, and we propose to 18 begin implementing Phase 2 in parallel with Phase 1B, beginning in the year 2016. The proposed 19 phased timeline for the Pipeline Safety Enhancement Plan is illustrated in Figure II-1 below. As 20 noted in the timeline, our interim safety enhancement measures have already been implemented 21 this year, and we propose to continue implementing those measures until the execution of our 22 proposed Pipeline Safety Enhancement Plan is complete. These measures, if approved as part of 23 this plan, will be implemented for Phase 2 pipelines upon completion of the Phase 2 records 24 review process. 25

Figure II-1 Proposed Pipeline Safety Enhancement Plan Timeline





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C. <u>The Commission Should Authorize the Recovery of Costs Incurred in 2011</u>

7 The Commission should authorize us to recover the costs we have incurred to date, and will incur, by the time the Commission issues a decision approving our proposed plan. Although 8 the San Bruno pipeline rupture did not occur in our service territory and there are no indications 9 that our existing transmission pipeline integrity management program is not effectively managing 10 the integrity of our transmission pipeline systems, we have been called upon to swiftly and 11 proactively implement costly measures in response to the San Bruno pipeline rupture. On 12 January 3, 2011, noting a potential discrepancy in the pipeline records obtained during the course 13 of its investigation of the San Bruno pipeline rupture, the NTSB issued Safety Recommendations 14 to PG&E directing PG&E to conduct an exhaustive review of pipeline records for all transmission 15 pipelines operated in Class 3 and 4 locations and High Consequence Areas. Although the NTSB 16 Safety Recommendations were not directed at us, at the request of the Commission, we also 17 conducted an exhaustive review of our records for pipelines operated in Class 3 and 4 locations 18 and High Consequence Areas, and incurred costs above and beyond those anticipated in our most 19 recent General Rate Cases. To support the Commission's efforts, we conducted this review as 20 21 quickly as possible, incurring significant costs in the process.

Following that records review, we voluntarily and proactively implemented several safety enhancement measures on pipeline segments for which we do not have sufficient documentation of pressure testing to validate that the pipelines are operating within an appropriate margin of safety. Again, although we knew we would incur significant costs, we voluntarily implemented these measures to support the Commission's efforts to restore public confidence in the integrity of the California natural gas pipeline system.

Our proactive approach to safety did not begin on September 9. We have consistently 7 demonstrated a proactive approach to maintaining the integrity of our transmission pipelines in a 8 manner that meets or exceeds regulatory requirements. In D.11-06-017, the Commission directs 9 California pipeline operators to consider retrofitting their transmission pipelines to allow for 10 internal inspection tools. The capability, reliability and availability of these in-line inspection 11 tools have greatly improved over the last ten years. In recognition of these improvements, we 12 have already implemented an extensive and concerted effort to retrofit our transmission pipeline 13 system to allow the use of this technology. Currently approximately 50% of our transmission 14 system is configured to allow for internal inspection tools, with additional retrofits that are 15 outside the scope of this proceeding in progress. 16

The Commission should authorize the recovery of those costs we have and will incur, as a direct result of the San Bruno pipeline rupture, that are above and beyond those forecast in our most recent General Rate Cases. To date, we have incurred costs of approximately \$3 million and forecast that we will spend a total of about \$7 million by year-end above and beyond those forecast in our most recent General Rate Cases. All of these costs are attributable to our review of records and our implementation of interim safety enhancement measures.

23 24

D. <u>The Costs of the Pipeline Safety Enhancement Plan Will Benefit All Customers, Not</u> One Group More Than Another

The costs of enhancing California's natural gas transmission pipeline system to exceed current Federal and State regulations and lead the nation in natural gas pipeline safety are projected to be significant. The estimated direct costs for implementing Phase 1 (both Phase 1A

and Phase 1B) of the proposed Pipeline Safety Enhancement Plan are projected to be

2 approximately \$2.5 billion for SoCalGas customers and \$600 million for SDG&E customers.

Implementing these new safety enhancements will benefit all customers. Accordingly,
the costs of the Pipeline Safety Enhancement Plan should be allocated in a manner that, on a
percentage rate impact basis, is relatively equitable across our different customer classes.
Fundamentally, all customers in our service territories will benefit equally from these investments
in transmission pipeline safety.

8 Therefore, we propose that the incremental costs of implementing these new safety 9 standards be tracked separately from other pipeline system costs and allocated on an equal 10 percent of margin basis.¹⁷ Furthermore, we propose that these costs be identified as a surcharge 11 in each customer's monthly bill. Recovery of these costs through a line-item surcharge will 12 provide transparency to our customers regarding the purpose for these costs. SoCalGas and 13 SDG&E estimate that by 2015, Phase 1A will result in a \$2.89/month surcharge on residential 14 bills for both SoCalGas and SDG&E.¹⁸

15 Today, a majority of transmission costs are allocated to large electric generators, manufacturers, refineries, and other large businesses that have very few employees—relative to 16 the overall service territory population. The costs being ordered by the Commission, such as 17 those associated with pressure testing, replacement of pipelines and automated valves, go beyond 18 current Federal safety standards for pipelines. Industries and businesses will not realize 19 significant improvements in transmission service from these safety-related investments; therefore, 20 it would be inappropriate to allocate these costs to these large throughput non-core customers in 21 the same manner that transmission costs are allocated today. Furthermore, such an approach 22 would likely encourage most, if not all, of these customers to eventually seek service from FERC-23

Equal Percent of Authorized Margin (EPAM) is the same cost allocation approach taken with the recovery of increases in margin requirements during cost allocation periods.

¹⁸ This surcharge will almost double through the rest of the decade as the investments contemplated in Phase 1B are made, but it will eventually decline in the following decade as O&M work is completed and those investments begin to depreciate.

regulated transmission pipelines that are not required to recover the additional pipeline safety
 costs being ordered in this California proceeding.

- E. <u>The Commission Can Help Mitigate Some Execution Challenges and Risks that May</u>
 Increase Costs and/or Delay Implementation
- 5

1. <u>General Construction Permitting Challenges</u>

SoCalGas and SDG&E operate transmission and distribution pipelines in 242 cities and 6 13 counties. Execution of the implementation plan will involve or lead to a substantial amount of 7 construction activity within numerous cities and counties that will have permitting authority over 8 various aspects of the plan projects. Various State and Federal agencies such the California 9 Department of Transportation, California State Lands Commission, Federal Aviation 10 Administration, California Department of Transportation, California Highway Patrol, as well as, 11 county and municipal building and safety, public works, environmental health and safety and 12 local fire departments, may all have permitting authority, depending on the location of a 13 particular project. 14

15 Where required under local jurisdictions, SoCalGas and SDG&E currently apply for and obtain local ministerial permits. This process can often take considerable time and effort. The 16 timing associated with a local jurisdiction's review and approval process is beyond the control of 17 the utilities, and will significantly impact planning and scheduling. Continuing budget constraints 18 and resource issues can hinder the ability of a local jurisdiction to review and approve permits in 19 20 a timely manner. In addition, permit conditions and requirements will also have significant impacts on construction costs and project scheduling. One common example of a local 21 jurisdiction construction permit requirement that may significantly impact construction costs and 22 project scheduling is the imposition of paving requirements that go beyond the actual trench 23 limits. Another common example is the imposition of restrictive work hour limitations that 24 significantly limit construction progress each day. The more restrictive the permit conditions, the 25 more time consuming and costly a project is likely to be. 26

In addition, there is the potential for significant local public resistance to the issuance of permit approvals needed to complete projects. Local permitting agencies often attempt to

regulate the utilities beyond the ministerial permitting level, and in turn, subject SoCalGas and 1 SDG&E to various discretionary approval processes as part of various construction activities. 2 These approval processes can escalate to become contentious and can even lead to legal 3 challenges that must be overcome. Further, these discretionary permitting processes have the 4 potential to preclude a project from being constructed all together. Although there is a very real 5 possibility that some projects may experience such significant permit delays and challenges, such 6 delays and challenges are not considered "normal" and are not normally included in preliminary 7 planning, scheduling and cost estimates. These construction permitting challenges further 8 demonstrate the importance of having an extensive external communication program to support 9 pipeline testing and replacement activities. 10

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2.

Availability of Materials and Qualified Personnel

To meet the Commission's directives in D.11-06-017, California's natural gas pipeline 12 operators will be required to simultaneously undertake an unprecedented volume of pressure 13 testing and construction work on an expedited schedule. Critical material components, such as 14 15 pipe, valves and fittings, may be in short supply due to increased demand. This is especially true where, as here, multiple utilities will be striving to complete similar work simultaneously, and on 16 an aggressive schedule, thus competing for the same resources. Additionally, qualified personnel, 17 both internal company labor and contractor personnel, may not be available in the time required 18 to support the planned schedule for this volume of work. In order to execute this effort, it is 19 20 anticipated that SoCalGas and SDG&E will need to employ over 200 additional full-time employees during a relatively short time period. Hiring increases of this magnitude in an 21 expedited timeframe may be particularly difficult to implement if other State utilities are seeking 22 to employ additional employees with similar qualifications as well. Shortages in the availability 23 and materials and qualified personnel could not only delay completion of the plan, but could also 24 increase costs beyond those initially contemplated. 25

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3.

Environmental Permitting Challenges

27 Similar to the general construction permitting context, the environmental permitting 28 processes that may be required for many of the projects set forth in the plan are fraught with

challenges. Unless Federal, State and local jurisdictions make each project's particular
environmental permitting a matter of utmost priority, then environmental permitting has the
potential to significantly delay and incrementally increase the cost of implementing many of the
larger projects contemplated under the plan. This emphasis on prioritization extends to the need
to maintain sufficient staffing to support the permitting process and provide certainty and
consistency with respect to the various regulatory requirements throughout the numerous
jurisdictions in which SoCalGas and SDG&E operate.

8 For example, a pipeline replacement project within the coastal zone that has the potential 9 to impact sensitive coastal resources would likely trigger multiple Federal, State, and local 10 permits/approvals. This complex regulatory environment requires project proponents to 11 overcome significant agency coordination challenges and navigate a process that may include 12 conflicting policies and procedures. Moreover, within individual agencies there are often 13 multiple departments with conflicting regulatory objectives.

Projects crossing lands under Federal jurisdiction provide another example of 14 15 environmental and land use permitting challenges that may affect the timely execution of the Implementation Plan. Projects in these geographical areas must also comply with a host of 16 additional laws and regulations including the National Environmental Policy Act, Federal Mineral 17 Leasing Act and the Federal Land Policy and Management Plan. These laws and regulations are 18 administered by an additional suite of regulatory agencies, including the Bureau of Land 19 20 Management, National Park Service and United States Forest Service. Federal agency involvement with Implementation Plan projects present additional coordination challenges 21 between State and Federal agencies. In addition, Federal agency priorities may hinder timely 22 execution of the Implementation Plan. For example, the Bureau of Land Management has been 23 directed by the Secretary of the Interior to give renewable energy projects the highest priority 24 when processing permit requests. SoCalGas and SDG&E request that the Commission support an 25 outreach and education effort with applicable Federal agencies to emphasize the purpose of and 26 need for timely execution of the Implementation Plan to enhance public safety and agree to 27 prioritize the processing of the necessary project approvals. 28

4.

Proposals for Commission Alleviation of Implementation Challenges

We believe that a strong partnership with the Commission is essential to successfully overcoming these challenges to project implementation. Although there is little the Commission can do to help alleviate constraints on the availability of materials and qualified personnel, there are several actions that the Commission can take to alleviate many of the permitting challenges that California pipeline operators will face as they begin executing their proposed implementation plans.

First, to minimize the potential for construction permitting delays and challenges, the 8 Commission should expressly state in its decision approving the Implementation Plan that 9 execution of the approved Implementation Plan is a matter of statewide concern, and as such, the 10 Commission has preemptory authority over conflicting local zoning regulations, ordinances, 11 codes or requirements to the extent that such local authority would deny, or significantly delay 12 execution of the Pipeline Safety Implementation Plan, while affirming that California natural gas 13 pipeline operators are required to obtain all necessary non-preempted permits prior to 14 15 commencing construction.

Second, the Commission can help communicate to all agencies responsible for issuing 16 permits that these projects are a priority because they will enhance public safety and the integrity 17 of an essential public service. The Commission, with support by the utilities, should create a plan 18 to educate State, Federal and local agencies that will be called upon to provide environmental 19 20 approvals of Implementation Plan projects, so that these projects may receive priority treatment in the permit application approval process. This simple request to all applicable agencies to make 21 Implementation Plan projects a priority will provide direction and guidance for those agencies 22 that are subject to the demands of various competing project applicants. Moreover the 23 Commission should partner with the natural gas utilities in developing and conducting outreach 24 and education efforts to communicate the purpose and need for timely execution of the 25 Implementation Plan. 26

Third, the Commission can request that applicable permitting agencies set aside personnel and consultant resources that can be funded by the natural gas utilities to focus on these

infrastructure projects. Under current economic conditions, all levels of government are resource
constrained. The natural gas utilities will rely on agencies to process their permits in a timely and
responsive manner. Often, however, human resource availability is intermittent or constrained.
Examples of permitting State agencies that may face human resource constraints include the
California Department of Fish and Game (CDFG) and the State Water Resources Control Board
and associated Regional Water Quality Control Boards.

Recent experience indicates that resource constraints are likely to pose a significant 7 challenge to timely execution of the Pipeline Safety Enhancement Plan. For example, SoCalGas 8 has had an agreement drafted to fund a CDFG resource to process a programmatic permit for over 9 a year; yet, the resource deficit is so dire at CDFG, that no one is available at the agency to 10 review or approve execution of the funding agreement. Unfortunately, many agencies have 11 suffered significantly in terms of resources during these economic times. The Commission can 12 help alleviate this challenge, however, by assigning someone to work with the agencies to 13 establish funding agreements that will set aside specific resources to process the permit 14 applications and greatly expedite the timely issuance of permits. 15

Fourth, the Commission can request that all environmental agencies develop, or 16 expeditiously approve pending applications for programmatic permits that will ensure consistent 17 permit conditions and mitigation requirements for these projects to create certainty for planning 18 purposes. The activities involved with these safety infrastructure projects are similar from one 19 20 project to another. Nevertheless, the utilities may be required to obtain permits that reflect dramatically different conditions and mitigation requirements from one region to another for the 21 same activity. This creates uncertainty in the planning process for these projects and can create 22 significant delays and/or unnecessary costs. In some cases, compensatory mitigation must be 23 acquired prior to project commencement, which could take years if, for example, the mitigation 24 requires the acquisition of land. The Commission can support creating certainty in project 25 conditions and mitigation by assigning someone to support the natural gas utilities at all levels 26 within these agencies to develop programmatic permits, such as for pressure testing. 27

1	As explained herein, the scope of work to be completed to satisfy the Commission's
2	objectives is large. Our proposed schedule for executing this plan is necessarily ambitious in
3	order to meet the Commission's directive to develop a plan to test or replace identified pipelines
4	"as soon as practicable." In order to adhere to our proposed schedule, we must begin the work of
5	planning and permitting individual pressure testing and replacement projects right away.
6	Accordingly, SoCalGas and SDG&E urge the Commission to issue a decision authorizing us to
7	begin executing our proposed Pipeline Safety Enhancement Plan as soon as possible.
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