

Application No. A. 08-05-\_\_\_\_\_  
Exhibit No: \_\_\_\_\_  
Witness: McKinley, Kevin C.

**PREPARED DIRECT TESTIMONY OF KEVIN C. MCKINLEY ON BEHALF OF SAN  
DIEGO GAS & ELECTRIC COMPANY'S LOW INCOME ENERGY EFFICIENCY  
PROGRAM PLANS AND BUDGETS FOR PROGRAM YEARS 2009-2011**

Before the Public Utilities Commission  
Of the State of California

May 15, 2008

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1 **I. OVERVIEW**

2 The purpose of my testimony is to discuss the following topics, as they relate to  
3 San Diego Gas & Electric Company’s (“SDG&E”) Low Income Energy Efficiency  
4 (“LIEE”) program cost effectiveness calculations:

- 5 ■ The cost effectiveness analysis for the proposed LIEE program for Program  
6 Years (“PY”) 2009–2011, using the Utility Cost Test (“UCT”), the Modified  
7 Participant Test (“MPT”), and the Total Resource Cost (“TRC”) Test;
- 8 ■ The 2005 LIEE Impact Evaluation report and its effect on the PYs 2009–2011  
9 LIEE program; and
- 10 ■ The proposed Measurement & Evaluation (“M&E”) studies including a Non-  
11 Energy Benefits Study which will examine the future application of non-energy  
12 benefits (“NEBs”) to cost effectiveness calculations.

13 My testimony specifically requests that the Commission grant SDG&E approval of the  
14 Measurement and Evaluations studies proposed for the PY 2009-2011.

15 **II. BACKGROUND**

16 In Decision (“D.”) 02-08-034, the California Public Utilities Commission  
17 (“Commission”) instructed the large investor-owned utilities (“IOUs”) <sup>1</sup> to evaluate the  
18 cost-effectiveness of the LIEE program measures for PY 2003 using the UCT and MPT.  
19 The tests incorporate NEBs such as comfort, health and safety as well as direct energy  
20 savings benefits to assess LIEE program cost-effectiveness. The methodology for  
21 conducting these tests and the criteria for evaluating the test results were recommended to  
22 the Commission by the Cost Effectiveness Subcommittee of the Reporting Requirements  
23 Manual Working Group and the LIEE Programs Standardization Team (“Standardization  
24 Team”) in a jointly filed report in March 2002<sup>2</sup> and were subsequently adopted by the  
25 Commission in D. 02-08-034.

26 The cost effectiveness approach adopted by the Commission in D. 02-08-034  
27 directed the application of two tests for the LIEE programs: the MPT, which assesses

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<sup>1</sup> The large Investor-owned utilities include: SDG&E, Pacific Gas & Electric Company, Southern California Gas Company (“SoCalGas”), and Southern California Edison Company.

<sup>2</sup> *Final Report for LIEE Program and Measure Cost Effectiveness*, submitted to the CPUC by the Cost Effectiveness Subcommittee of the Reporting Requirements Manual (“RRM”) Working Group and the LIEE Standardization Project Team, March 28, 2002.

1 measures from the perspective of LIEE participants;<sup>3</sup> and the UCT, which is calculated  
2 from the point of view of the utility. Both tests incorporate a set of NEBs, as well as  
3 direct energy-related benefits. These NEBs capture a variety of effects such as changes  
4 in comfort and reduction in hardship, which are not captured by the energy savings  
5 estimates derived from load impact billing evaluations, and are ignored in more  
6 traditional cost effectiveness approaches like the TRC Test. The NEBs developed for  
7 these tests were initially designed for use at the program level and were allocated to  
8 individual measures according to their energy savings.

9 Originally, the specific costs included in the MPT and UCT depended upon the  
10 application of the test results. In assessing overall program cost effectiveness, both direct  
11 measure costs and a variety of indirect costs (administration costs, outreach and training,  
12 regulatory reporting costs, etc.) were considered. In evaluating the cost effectiveness of  
13 individual measures, however, only installed measure costs were included in the benefit  
14 cost ratio. These installation costs are sometimes referred to as incremental or marginal  
15 costs. There was much discussion on this particular issue when the tests were initially  
16 developed (for example, whether to include opportunity costs, or whether to include both  
17 direct and indirect costs). In the end, the Standardization Team decided that, from an  
18 economic perspective, the cost effectiveness analysis should consider only those costs  
19 that were truly affected by the immediate decision at hand and be based on costs that are  
20 known or could be reasonably estimated. In applying the cost effectiveness framework to  
21 individual measures, then, the decision at hand was whether or not a specific measure  
22 should be retained or dropped from the program. Insofar as retaining or dropping a  
23 specific measure would have a relatively minor impact on indirect costs, these indirect  
24 costs were ignored in the application of the measure level cost effectiveness tests.

25 The UCT used avoided costs<sup>4</sup> to value energy savings, while the MPT used retail  
26 rates adjusted for low-income customers to value energy savings. To determine LIEE

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<sup>3</sup> The Participant Test was modified to use utility LIEE program costs in order to create a benefit cost ratio, since low income customers do not incur out-of-pocket expenses to obtain LIEE measures. The CPUC Office of Rate Payer Advocates wanted to estimate and use for this test the opportunity costs incurred by low income customers in lieu of any out-of-pocket expenses incurred; however, the final Team decision was to base the benefit cost ratio on known costs (in this case, the direct costs incurred by the utilities to install the measures), hence the Modified Participant Test.

<sup>4</sup> The term “avoided costs” refers to a variety of costs avoided by society as a result of reduced energy demand, either electricity or gas.

1 measure cost effectiveness, the measure-specific benefit-cost ratio was compared to the  
2 overall program benefit-cost ratio. For a measure to “pass” and be considered cost  
3 effective, its measure-specific benefit-cost ratio must have been at least as high as the  
4 overall program ratio for either the UCT or the MPT.

5 The analysis of measure cost effectiveness was conducted at a fairly  
6 disaggregated level. For all measures, cost effectiveness ratios were developed by  
7 residence type and (where applicable) fuel type. For measures with weather-sensitive  
8 effects, the analysis was also conducted by climate zone. This disaggregated approach  
9 was designed to recognize the variation in benefits and costs across specific applications  
10 of the measures in question. However, it also yielded situations in which measures were  
11 cost effective in some applications (for some utilities, residence types, some climate  
12 zones, or one fuel) but not others. In these cases, the Subcommittee developed a set of  
13 consistent rules to determine whether or not a measure should be included in the LIEE  
14 program.<sup>5</sup>

15 In June 2003, the Subcommittee filed a report describing the analysis and results  
16 of the measure cost effectiveness assessment for the 2003 LIEE Program.<sup>6</sup> This report  
17 included recommendations for keeping or dropping measures in the LIEE Program based  
18 on their cost effectiveness results.

### 19 **III. LIEE COST EFFECTIVENESS TESTING FOR PY 2009-2011**

20 For the PY 2009-2011, the Commission instructed the large IOUs to provide  
21 program level and measure level benefit cost ratios using the UCT, the MPT, and the  
22 TRC tests.<sup>7</sup> Because the measure level benefit cost ratios produced for this Application  
23 are to assess the cost effectiveness of the program as a whole, indirect costs were  
24 included in the analysis, unlike the previous analysis completed for the 2003 programs  
25 described above. In addition, because significant changes have been made since 2003 in  
26 the way avoided costs are included in energy efficiency analyses, the E3- Calculator for  
27 PY 2009-2011 planning<sup>8</sup> (“E3 Calculator”) was used in this analysis to measure avoided

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<sup>5</sup> These are documented in the final report cited later in this section.

<sup>6</sup> *LIEE Measure Cost Effectiveness*, submitted to the CPUC by the Cost Effectiveness Subcommittee of the RRM Working Group and the LIEE Standardization Project Team, June 2, 2003.

<sup>7</sup> *Assigned Commissioner’s Ruling Providing Guidance for Low-Income Energy Efficiency 2009-2011 Budget Applications*; Rulemaking 07-01-042, April 1, 2008.

<sup>8</sup> SDG&E Tool 5c (800) downloaded from [http://www.ethree.com/cpuc\\_cee\\_tools.html](http://www.ethree.com/cpuc_cee_tools.html) on 04/21/08.

1 cost benefits. The steps involved in conducting the cost effectiveness tests for the PY  
2 2009-2011 LIEE programs are summarized as follows.

3 The MPT was conducted using the methodology approved by the Commission for  
4 the PY 2003 evaluation. The model used in that evaluation was updated with the  
5 proposed values for PY 2009-2011 as follows:

- 6 • The estimated number of participant households was entered by measure  
7 type, housing type, fuel type and climate zone where applicable.
- 8 • The estimated program costs were entered as measure-specific installation  
9 costs and overall program indirect costs.
- 10 • Estimated energy saving impacts were entered as therms, kWh related to  
11 non-cooling measures, kWh related to cooling measures, and kW impacts  
12 where they were available.<sup>9</sup>

13 The benefit cost ratio for the MPT test consists of the NPV of energy savings and NEBs  
14 for the participant in the numerator, and the cost of the program (both measure  
15 installation and indirect costs) in the denominator. For measure level benefit cost ratios,  
16 the indirect costs were allocated based on the energy savings of the measure.

17 The UCT was conducted in two stages. First, the NEBs model used in the PY  
18 2003 evaluation was used to calculate program level NEBs, similar to the analysis for the  
19 MPT but with utility-specific NEBs specified rather than participant-specific NEBs.<sup>10</sup>  
20 Second, the E3 Calculator was used to derive the avoided cost benefits. The E3  
21 Calculator was populated with the proposed measure installation quantities, proposed  
22 program costs, and the energy savings impacts described above for the MPT. The benefit  
23 cost ratio for the UCT test consists of the NPV of avoided cost savings for the utility plus  
24 the utility NEBs in the numerator, and the cost of the program (both measure installation  
25 and indirect costs) in the denominator. For measure level benefit cost ratios, the indirect  
26 costs were allocated based on the energy savings of the measure.

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<sup>9</sup> Most of the impacts used in the analysis were taken from the 2005 Impact Evaluation conducted by West Hill Energy & Computing described later in this testimony. Where impacts were not provided in this study, they were taken from the Database for Energy Efficiency Resources (“DEER”), workpapers, or the impacts used in the “Preliminary Report on the Assessment of Proposed New LIEE Measures,” Itron, March 2005.

<sup>10</sup> Examples of utility-specific NEBs include reduced carrying costs on arrearages, fewer shutoffs, fewer reconnects, fewer customer calls; examples of participant-specific NEBs include water/sewer savings, fewer fires, property value benefits, fewer illnesses, comfort, and reduced hardship.

1 The TRC test was conducted using the E3 Calculator. As with the UCT, the E3  
2 Calculator was populated with the proposed measure installation quantities, proposed  
3 program costs, and the energy savings impacts described above for the MPT. The E3  
4 Calculator provides program level results and measure-specific results with indirect costs  
5 allocated based on the energy savings of the measure. The TRC test <sup>11</sup> does not include  
6 NEBs, so in this respect it is not comparable to the results of the MPT and the UCT.

7 In general for this analysis, it is important to note that allocating indirect costs  
8 across measures according to energy savings in many cases skews the cost effectiveness  
9 results for some measures, making them appear to be less cost effective or more cost  
10 effective than they really are. The reason for this is that indirect costs are not directly  
11 related to the amount of energy a measure might save. The result of allocating indirect  
12 costs by energy savings is that measures that contribute more energy savings to the  
13 portfolio bear a greater portion of these costs than measures that contribute less energy  
14 savings. For example, according to the most recent impact study discussed below, 78%  
15 of the statewide electric LIEE energy savings is attributable to refrigerators. Thus,  
16 although the number of units installed is relatively low compared to other measures, they  
17 bear a large portion of the allocated indirect costs and this drives the benefit cost ratio for  
18 this measure down.

19 The program level results of the cost effectiveness tests are presented in Table 1.

20 **Table 1: Program Level Cost Effectiveness Ratios**

UCT	MPT	TRC
0.60	0.86	0.51

21  
22 The measure level results of the cost effectiveness tests are provided in Attachments to  
23 the Application -- Attachments A-5, A-6 and A-7. These results are presented by housing  
24 type, fuel type, and climate zone where applicable.

#### 25 **IV. LIEE 2005 IMPACT EVALUATION**

26 D.02-12-019 directed the utilities to conduct a load impact evaluation for the  
27 LIEE program bi-annually in accordance with the Measurement and Evaluation protocols

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<sup>11</sup> The TRC test is used for determining the cost-effectiveness of program portfolios offered under the Energy Efficiency programs. The portfolio of programs must result in a TRC of 1 or greater to be deemed cost-effective. Historically, the Commission has not required LIEE programs to meet the TRC threshold because the programs served other Commission equity objectives.

1 and the provisions<sup>12</sup> described in D.03-10-041. Following this direction, the 2005  
2 Program was evaluated by West Hill Energy & Computing, Inc.<sup>13</sup> The primary purpose  
3 of the 2005 evaluation was to estimate the first year energy savings for the measures  
4 offered under the LIEE program at the program and measure level. In addition, the 2005  
5 evaluation was designed to provide additional information for certain key measures, i.e.,  
6 lighting, cooling, and low-flow showerheads. The study also assessed the effectiveness  
7 of the energy education component of the Program on a qualitative basis and provided  
8 recommendations for improving the Program.

9 The study incorporated a regression analysis to estimate impacts. The results of  
10 the regression analysis were then compared to estimates from previous evaluations,  
11 external studies, and other data collected through the showerhead and the on-site surveys  
12 in an effort to triangulate and improve the estimates of the energy impacts. Table 2 and  
13 Table 3 below present a summary of these results for the LIEE program's electric and gas  
14 measures.

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<sup>12</sup> *Protocols and Procedures for the Verification of Costs, Benefits, and Shareholder Earning from Demand-Side Management Programs, as adopted by the Commission, Revised June 1999.*

<sup>13</sup> Westhill Energy & Computing, Inc. *Impact Evaluation of the 2005 California Low Income Energy Efficiency Program Final Report*, December 19, 2007.



1 **Table 2: Summary of Savings for Electric Measures**

Measure	Regression Result	Showerhead/ On-site Estimate	DEER/ External Studies	Previous LIEE Evaluations	Source of PY 2005 Savings Estimate
Lighting (per CFL)	11 kWh	22 kWh	21 – 60 kWh	22 - 43 kWh	Adjusted to be between regression and on-site estimate, at 90% upper confidence bound of regression result
Refrigerators	755 kWh	None	None	645 - 795 kWh	Electric regression model
Attic Insulation (heating)	257 kWh	None	180 kWh (2005)	35 - 288 kWh	Electric regression model
Attic Insulation (cooling)	70 kWh	None	None	44 - 208 kWh	Electric regression model
Domestic Hot Water (“DHW”) Package	Not estimated	171 kWh (showerhead)	78 - 608 kWh (2001)	30 - 240 kWh	Convert savings from gas regression model
Evaporative Coolers	245 kWh	None	333 – 5056 kWh (2001)	98 - 571 kWh	Electric regression model
Efficient Room A/C	97 kWh	None	None	80 - 571 kWh	Electric regression model
Air Sealing/ Envelope measures	Not estimated	None	None	10 - 56 kWh	Convert savings from gas regression model

2  
3 **Table 3: Summary of Savings for Gas Measures**

Measure	Regression Result (Therms)	Showerhead/ On-site Estimate	DEER/ External Studies	Previous LIEE Evaluations	Source of PY 2005 Savings Estimate
Air sealing/envelope	6.1	None	None	3 – 11 therms	Gas regression model
Attic Insulation	47.2	None	41 therms	10 – 59 therms	Gas regression model
Heating System Repair/Replace	2.4	None	None	Increased Use to 147 therms	Gas regression model
DHW Package	13.5	7.3 therms (showerhead)	20 – 26 therms	10 - 20 therms	Gas regression model
DHW Replacement	12.1	None	None	9 – 19 therms	Gas regression model

4  
5 Table 4 below presents a summary of the electric savings by end use reported by the  
6 study.  
7

1 **Table 4: Electric Savings by End Use**

End Use	Energy Savings (MWh)	% of Total	Coincident Peak Demand Savings (KW)	% of Total
Refrigerators	37,011	78%	6,293	75%
Lighting	7,558	16%	717	9%
Cooling	1,165	2%	410	5%
Electric DHW Conservation	1,083	2%	927	11%
Electric Space Heat	534	1%	0	0%
Totals	47,319		8,309	

2

3 The study included the following recommendations for improving the program  
 4 and future evaluations:

- 5 ■ Focus energy education on actions with higher savings and lower acceptance,  
 6 such as drawing shades to reduce cooling;
- 7 ■ Improve the quality of the CFL lamps and ensure their installation to raise  
 8 retention rates from the 65% found in the on-site survey;
- 9 ■ Provide additional instruction on the appropriate use of evaporative coolers and  
 10 air conditioning systems;
- 11 ■ Consider changes to the refrigerator replacement protocols;
- 12 ■ Focus on non-energy benefits (e.g., improvements in health and safety) in the next  
 13 evaluation; and
- 14 ■ Consider adding efficient clothes washers to the program and how to claim  
 15 savings for reduced water pumping from low flow devices and other water-  
 16 savings measures.

17 This study provided valuable information for program planning and reporting.

18 Primarily, the estimated savings will be used for regulatory reporting and for cost  
 19 effectiveness testing. In addition, a number of findings informed LIEE program design  
 20 for 2009-2011. For example, according to the results reported from this study, energy  
 21 savings for key measures are significantly higher in high consumption households.

22 Consistent with this finding, SDG&E’s proposed program design focuses primarily on  
 23 those customers/homes who are the highest energy consumers, without excluding those  
 24 potentially eligible customers who have lower energy consumption. SDG&E is also  
 25 proposing to add high efficiency clothes washers to its PY 2009-2011 portfolio of

1 measures. In addition, potential changes to refrigerator replacement protocols (i.e., age  
2 of refrigerator) will be evaluated as part of the proposed Refrigerator Degradation Study  
3 described below.

#### 4 **V PROPOSED STUDIES**

5 SDG&E proposes that its LIEE program be evaluated through the following four  
6 statewide studies to be conducted during PY 2009-2011:

- 7     ▪ A process evaluation,
- 8     ▪ An impact evaluation,
- 9     ▪ A refrigerator degradation study, and
- 10    ▪ A non-energy benefits study.

11 Each of these is discussed below and in more detail in Attachments A-10.3, 10.4, 10.5,  
12 and 10.6.

##### 13 **A. LIEE Process Evaluation**

14 A Statewide Process Evaluation is planned for 2009. The objectives of this study  
15 are to assess the effectiveness of the program components, including outreach, delivery,  
16 data tracking, customer satisfaction, etc. and to provide recommendations for improving  
17 the program. In addition, the study will evaluate the low-income customers' attitudes  
18 toward energy efficiency opportunities, in particular their willingness to participate in  
19 low-income programs and to engage in energy saving behaviors. The study will likely  
20 utilize customer surveys, focus groups, and ride-alongs with program contractors in  
21 addition to secondary data sources to provide a comprehensive assessment.

##### 22 **B. LIEE Impact Evaluation**

23 A Statewide Impact Evaluation is planned for the PY 2010 LIEE program. The  
24 primary objective of this study is to estimate the first year energy savings for the LIEE  
25 program by utility and at the measure level. In addition, the study will provide  
26 information on participant consumption and characteristics. The study will focus on new  
27 measures in this Program cycle, although impacts for all program measures will be  
28 estimated. It is anticipated that the analysis will consist of a statistical regression analysis  
29 of consumption records, although some data may also be collected from customer onsite  
30 surveys.

1 Historically, impact evaluations have been conducted every two years, and the  
2 most recent study was completed for the 2005 Program. West Hill Energy & Computing  
3 Inc., the study consultant, recommended that the joint utilities forgo a PY 2007 load  
4 impact study and conduct a study on the PY 2008 because the PY 2005 evaluation had  
5 just been completed. As such, the joint utilities in each of their respective applications,  
6 are requesting approval to defer and conduct the next impact evaluation on the 2008  
7 program. D.06-12-038 authorized funding to conduct the PY 2007 load impact  
8 evaluation. SDG&E proposes to carryover these unspent funds to the PY 2009-2011  
9 cycle. Therefore, SDG&E is not requesting any additional funds to conduct the PY 2008  
10 load impact evaluation. Assuming the two-year study cycle remains in place,<sup>14</sup> the next  
11 study would be conducted on the 2010 program, for which SDG&E is requesting  
12 approval of a pro rata share of the total projected study cost.

### 13 **C. Refrigerator Degradation Study**

14 This Statewide study, planned for 2009, will examine the efficiency degradation  
15 over the useful life of refrigerators. Refrigerator replacements provide a significant  
16 portion of the energy savings for the LIEE Program. Currently, the Program replaces  
17 only refrigerators manufactured prior to 1993. The results of this study will provide  
18 valuable information in determining potential energy savings for replacing newer models.  
19 The analysis for this study will examine laboratory testing data along with refrigerator  
20 consumption data. *See* Attachment A-10.5.

### 21 **D. NEBs Study**

22 The role of NEBs as currently used in the methodology for LIEE cost-  
23 effectiveness needs to be reexamined. The current methodology for evaluating the cost-  
24 effectiveness of LIEE measures was established in 2001 and many of the values used to  
25 calculate NEBs are outdated and inappropriate for the current program. In addition, the  
26 original theories used to determine whether or not NEBs and which NEB should be  
27 included in the cost-effective calculations remain controversial and need to be re-  
28 examined.

29 The large IOUs, in Attachment A-10.6 describe a NEBs study that could be used  
30 to update the NEBs' purpose. This study, among other things, would examine and report

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<sup>14</sup> Established in D.02-12-019.

1 on studies that have been completed nationwide on NEBs including studies that have  
2 attempted to measure NEBs. Once this information is gathered and summarized a more  
3 informed decision could be made on the appropriateness of including NEBs in the LIEE  
4 cost-effectiveness tests.

5 If it is determined that NEBs should continue to be included in the LIEE program  
6 and measure cost-effectiveness calculations there are two possible paths that could be  
7 taken:

- 8 1) Attempt to measure NEBs in detail as currently used in the Low Income Public  
9 Purpose Test (“LIPPT”) model. This would require an extensive study focused  
10 on examining NEBs nationwide, determining which values should stay and which  
11 should be eliminated; then determining new values for the NEBs being retained;  
12 or
- 13 2) Develop a factor (e.g. 25%) which would be used to inflate the energy benefits of  
14 the LIEE program to account for the NEBs. This factor could be developed  
15 through a lower cost study and would still give a boost to the cost benefit ratios to  
16 account for variables not represented by the energy benefits.

17 It could be that the most appropriate path would be to examine NEBs in detail  
18 once every 3 to 5 years. Then in the interim years develop a factor based on those values  
19 that would be used to inflate the energy benefits to account for NEBs.

20 SDG&E is very interested in assuring that all appropriate benefits are accrued to  
21 the LIEE programs. It is apparent that the current cost effectiveness methodology with  
22 regard to NEBs needs revision. SDG&E would encourage the Commission to grant  
23 funding for an evaluation to ensure that NEBs are handled properly in the cost-  
24 effectiveness calculations for LIEE programs.

25 SDG&E’s estimated three-year total funding requirement for M&E studies is  
26 shown in Table 5 below.

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**Table 5: 2009 to 2011 Measurement & Evaluation Proposed Budget\***

<b>Statewide Study</b>	<b>Total Cost</b>	<b>SDG&amp;E Share</b>	<b>SDG&amp;E Cost</b>
Impact Evaluation of the 2010 LIEE Program	\$600,000	15%	\$90,000
Process Evaluation of the 2009 LIEE Program	\$250,000	15%	\$37,500
Non-Energy Benefits Study	\$300,000	15%	\$45,000
Refrigerator Degradation EUL Study	\$200,000	33.33%	\$66,660
<b>Total</b>	<b>\$1,350,000</b>		<b>\$239,160</b>

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\* The proposed impact evaluation of the 2010 LIEE program will begin in 2011 and conclude in 2012. SDG&E is requesting full funding of the evaluation in this program cycle and any unspent funds authorized for this study will be expended in 2012.

1 **STATEMENT OF QUALIFICATIONS**

2 **KEVIN C. MCKINLEY**

3 My name is Kevin C. McKinley. My business address is 8335 Century Park  
4 Court, San Diego CA. 92123. I am currently employed at SDG&E as the Supervisor of  
5 Measurement and Evaluation.

6 I originally joined SDG&E in 1978 and held a variety of management positions in  
7 financial analysis, customer forecasting, fuel planning and marketing. During the 1990s I  
8 was the Manager of Marketing Analysis for SDG&E where my responsibilities were  
9 related to: Demand Side Management (“DSM”) forecasting, DSM earnings claims, and  
10 program measurement studies. I was heavily involved in the development of the original  
11 Protocols used for measurement and evaluation in California during the 1990s. I was also  
12 Chairman of the California Demand Side Management Advisor Committee during part of  
13 this period.

14 In late 1998, I left SDG&E and consulted in the measurement and evaluation  
15 areas for the next several years. I rejoined SDG&E in April 2005. My current  
16 responsibilities include the Measurement and Evaluation of programs for both SDG&E  
17 and SoCalGas for Energy Efficiency, Demand Response, and Low Income programs. I  
18 am also a part-time instructor and have taught at several colleges in the San Diego area  
19 including San Diego State University, the University of San Diego, University of  
20 Redlands and the University of Phoenix. I hold two masters degrees, one in Economics  
21 and the other in Latin American studies, both from San Diego State University and a  
22 Bachelors degree in Business Administration from Gonzaga University.

23 I have testified previously before this Commission.