

Company: San Diego Gas & Electric Company (U902M)
Proceeding: 2016 General Rate Case
Application: A.14-11-____
Exhibit: SDG&E-16

SDG&E

DIRECT TESTIMONY OF CARMEN L. HERRERA

FLEET SERVICES

November 2014

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**



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SUMMARY

FLEET SERVICES			
Shown in Thousands of 2013 Dollars	2013 Adjusted-Recorded	TY2016 Estimated	Change
Total Non-Shared	30,655	41,085	10,430
Total Shared Services (Incurred)	0	0	0
Total O&M	30,655	41,085	10,430

Summary of Requests

- San Diego Gas & Electric’s (“SDG&E” or “Company”) total Test Year (“TY”) 2016 estimated Operations and Maintenance (“O&M”) expenses request for Fleet Services is \$41.085 million. The increase from base year is driven primarily by the standard replacement of vehicles, Alternative Fuel Vehicles (“AFV”) required by the Energy Policy Act (“EPAAct”), retrofit and replacement of units to comply with the Airborne Toxic Control Measures (“ATCM”), and the additional vehicles needed to support gas distribution, transmission, and customer field services.
- SDG&E requests \$20.875 million in Maintenance Operations costs to maintain and fuel a Fleet of over 2,200 vehicles and power-operated equipment. SDG&E’s request is broken down into two components: 1) Vehicle Servicing & Repairs, and 2) Automotive Fuels-- both components are forecasted using the 3-year historical average. Also included in SDG&E’s request are costs for additional activities to comply with ATCM and San Diego City code requirements for mobile fueling operations.

1 **SDG&E DIRECT TESTIMONY OF CARMEN L. HERRERA**
2 **FLEET SERVICES**

3 **I. INTRODUCTION**

4 **A. Summary of Costs**

5 In this testimony, I sponsor SDG&E's Fleet Services Non-Shared costs. For TY 2016,
6 Fleet Services requests \$41.085 million. Table CLH-1 below summarizes SDG&E's total O&M
7 costs for Fleet Services.

8 **TABLE CLH-1**
9 **TY 2016 Summary of Total Costs**

FLEET SERVICES			
Shown in Thousands of 2013 Dollars	2013 Adjusted-Recorded	TY2016 Estimated	Change
Total Non-Shared	30,655	41,085	10,430
Total Shared Services (Incurred)	0	0	0
Total O&M	30,655	41,085	10,430

10 **B. Summary of Activities**

11 SDG&E's Fleet Services acquires, maintains, repairs and salvages vehicles and related
12 equipment to support the reliable delivery of gas and electricity to SDG&E customers. SDG&E
13 Fleet Services manages a mix of vehicles consisting of over-the-road ("OTR") vehicles such as
14 automobiles, light duty, medium and heavy duty trucks, and non-over-the road ("Non-OTR")
15 such as power operated equipment including trailers and forklifts. Fleet Services provides daily
16 support critical to the gas and electricity distribution and transmission operating crews, customer
17 services field operations, and the capital construction program.

18 The key activities of Fleet Services include the following:

- 19 a) Provide the necessary quantity, type and configuration of vehicles and equipment
20 required daily by gas and electric operations to meet new business demands, respond
21 to gas and electric service outages and service requests, support infrastructure
22 replacement, and conduct the corrective maintenance programs central to maintaining
23 reliable service.
- 24 b) Maintain vehicles and equipment to reliably meet daily availability requirements.
25 The increasing age of SDG&E's gas and electric system as well as new business
26 demands requires that vehicles be available for use 24 hours a day 7 days a week.

- 1 c) Manage the vehicle and equipment asset portfolio through the design, acquisition,
2 financing, and replacement of vehicles.
- 3 d) Implement fleet systems and processes to minimize the costs and optimize operations.
- 4 e) Comply with Federal, State, and Local statutes and agency regulations pertaining to
5 air quality, waste, hazardous materials, natural resources, safety, and alternative-
6 fueled vehicles. Of particular impact on the Fleet Services organization and costs are
7 the following:
- 8 • EPAAct requirements regarding the federally mandated procurement of alternative-
9 fueled vehicles. As an Alternative Fuel Provider Fleet, 90% of the SDG&E's
10 annual light duty vehicle purchases are required under the EPAAct to be approved
11 alternative-fueled vehicles.¹ To achieve the 90% annual requirement, SDG&E
12 plans to buy alternative fueled vehicles at a premium. If SDG&E cannot achieve
13 the 90% annual requirement, SDG&E may purchase EPAAct credits.
 - 14 • California Air Resources Board (“CARB”) regulations requiring the reduction of
15 diesel emissions by retrofitting or replacing diesel vehicles and off-road
16 equipment.
 - 17 • U.S. Environmental Protection Agency (“EPA”) and CARB regulations requiring
18 diesel engines to reduce oxides of nitrogen and particulate matter emissions.
 - 19 • California Highway Patrol mandated inspections, training and other regulations
20 applicable to heavy-duty fleet vehicles and equipment.
 - 21 • Occupational Safety and Health Administration “OSHA” and Cal OSHA
22 mandated inspections, training, and other regulations applicable to fleet
23 operations and equipment acquisition.
 - 24 • Other Environmental Protection Agency requirements governing air quality,
25 water quality, waste, hazardous materials, safety and natural resources, including
26 mandated inspections, and repairs applicable to underground storage tanks,
27 aboveground storage tanks, fuel island components, mobile fueling, and
28 hazardous waste stream management.

¹ U.S. Department of Energy; EPAAct Fleet Information & Regulations.

- 1 f) Manage nine mobile fuel tankers to supply gasoline and diesel to support field
2 operations.
- 3 g) Ensure proper training of Fleet Maintenance Technicians regarding hazardous waste
4 disposal requirements of fleet materials.
- 5 h) Evaluate changes in technology, regulation, and operational trends to ensure they are
6 properly incorporated into all fleet-related plans and activities.

7 In addition to this testimony, please also refer to my workpapers, Ex. SDG&E-16-WP for
8 additional information on the activities described herein.

9 **C. Support for Fleet Services Request**

10 SDG&E's forecast of expenses for Fleet Services is needed to support SDG&E's
11 commitment to providing quality, safe, and reliable customer services. The request supports the
12 safety and reliability of SDG&E's system and service by providing appropriate vehicles and
13 work equipment to supervision and work crews that provide gas, electricity, and supporting
14 services while ensuring vehicles are complying with environmental, legal, and regulatory
15 requirements.

16 The design of fleet vehicles and equipment, while enabling productive work, is also
17 fundamental to the safety of our work crews permitting them to restore service, provide services
18 to new customers, and perform routine inspection and maintenance as part of our obligation and
19 commitment to public and employee safety.

20 Included in the Vehicle Servicing & Repair section of this testimony are costs for
21 retrofitting the SDG&E fleet of over-the-road vehicles with backup cameras and backup sensors
22 to try to help prevent the number of backup incidents. The cost is spread from 2014 through
23 2016 to bring the fleet in compliance with (early adoption of) the National Highway Traffic
24 Safety Administration ("NHTSA") standard requiring manufacturers to install rear-view
25 visibility systems in light duty vehicles by 2018.²

26 **II. NON-SHARED COSTS**

27 **A. Introduction**

28 Non-shared costs for Fleet Services include vehicle acquisition and disposition,
29 maintenance and repair, fuel management, and technical services of more than 2,000 vehicles to

² 49 CFR Part 571 (2014).

SDG&E and, on a limited basis, to the parent company Sempra Energy Corporate Center (“Corporate Center”), and other affiliate companies of Sempra Energy.

For TY 2016, Fleet Services requests \$41.085 million, an increase of \$10.430 million above 2013 adjusted-recorded costs. Table CLH-2 below provides a summary of the request.

**TABLE CLH-2
Non-Shared O&M Summary of Costs**

FLEET SERVICES			
Shown in Thousands of 2013 Dollars			
Categories of Management	2013 Adjusted-Recorded	TY2016 Estimated	Change
A. Ownership Costs	10,149	18,249	8,100
B. Maintenance Operations	18,624	20,875	2,251
C. Fleet Management	1,882	1,961	79
Total	30,655	41,085	10,430

B. Ownership Costs

Fleet Services ownership costs are separated into four categories: Amortization, Interest, Salvage, and License Fees, which are summarized in Table CLH-3 below and in the description of costs and underlying activities.

**TABLE CLH-3
Forecast for Ownership Costs**

FLEET SERVICES			
Shown in Thousands of 2013 Dollars			
A. Ownership Costs	2013 Adjusted-Recorded	TY2016 Estimated	Change
1. Amortization	9,255	14,823	5,568
2. Interest	808	2,598	1,790
3. Salvage	-953	-700	253
4. License Fees	1,039	1,528	489
Total	10,149	18,249	8,100

1. Description of Costs and Underlying Activities

Fleet Services acquires, maintains, repairs, and salvages vehicles and related equipment to support the reliable delivery of gas & electricity to SDG&E customers. Fleet Services Operations provides daily support critical to the gas & electric distribution and transmission operating crews, customer services field operations, and the capital construction program.

SDG&E lease finances its vehicles and incurs annual repayment of principal and interest (amortization) for each vehicle over the term of each lease. Replacement scheduling is based on

1 targeted useful lives of vehicles by various classes, and ownership costs for each year are
2 forecasted using a cash-flow model.

3 **Amortization** - Annual repayment of principal for the fleet leases is composed of active
4 lease obligations for vehicles in the fleet at year-end 2013 and new lease obligations for
5 replacements or additions to the fleet for business needs. Replacement scheduling is based on
6 targeted useful lives of vehicles by various classes and amortization costs for each year are
7 forecasted for 2014-2016. Fleet Services projected the pay-down of active lease obligations and
8 applied specified lease duration terms and associated interest to new fleet assets scheduled to be
9 placed in service during each forecast year. See Ex. SDG&E-16-WP Amortization and
10 supplemental for further detail.

11 44.67% or \$6.622 million of the 2016 amortization forecast total is for committed
12 financing of existing vehicles and replacements currently under purchase order. 46.0% or \$6.822
13 million of the 2016 amortization forecast total is for replacements scheduled to be purchased in
14 the 2014-2016 time period. 3.63% or \$0.54 million is for incremental Alternative-Fuel Vehicles.
15 3.2% or \$0.474 million is for incremental vehicle additions requested by operating departments;
16 and 2.5% or \$0.364 million is needed for completion of State mandated Diesel Particulate Filter
17 Airborne Toxic Control Measures (“ATCM”) retrofits or replacements.

18 California’s landmark climate change law, the Global Warming Solutions Act (AB 32),
19 set the state on an aggressive path toward significantly reducing greenhouse gas (“GHG”)
20 emissions and improving the environment. The transportation sector accounts for 36% of GHG
21 emissions in California.³ In order to capture the benefits of reducing emissions from the
22 millions of cars and trucks on California’s roads today, the state has taken steps to enable
23 widespread and accelerated adoption of Alternative Fuel Vehicles and the infrastructure to
24 support them.

25 In line with the goals set forth in the Governor’s Zero Emission Vehicle (“ZEV”) Action
26 plan, which quantified the transportation sector’s contribution toward meeting California’s GHG
27 goals and set a key target of putting 1.5 million zero-emission vehicles on California roads by
28 2025, and California state initiatives and regional and multi-agency efforts seeking ozone
29 reductions in the range of 70% to 80% in all sectors, SDG&E is supporting these initiatives to

³ First Update to the Climate Change Scoping Plan, California Air Resources Board, May 2014, p. 46,
http://www.arb.ca.gov/cc/scopingplan/2013_update/first_update_climate_change_scoping_plan.pdf.

1 grow its electric and natural gas fleet by replacing and/or retrofitting traditional gas and diesel
2 vehicles. SDG&E expects to reduce approximately 20,000 metric tonnes of greenhouse gases
3 over 5 years which is the approximate annual output for the entire fleet. See Ex. SDG&E-16-WP
4 Amortization and supplemental for further detail.

5 **Interest** – All replacement and incremental vehicle additions are forecasted to be
6 financed under an operating lease with floating interest rates.

7 **Salvage** - Vehicles are sold for salvage at the end of their useful life. Any net proceeds
8 are credited back to Fleet Services offsetting any incremental acquisition costs for replacement
9 vehicles.

10 **License Fees** - License fees payable to the State of California each year are a function of
11 the age and composition of the fleet during that year, and consist of several components based on
12 vehicle weight, capacities, age, purchase price, and location.

13 **2. Forecast Method**

14 For TY2016, I forecasted \$18.249 million for non-shared Fleet Services costs. My
15 forecasted amount is mostly due to committed financing of existing vehicles and replacement
16 vehicles. Additionally, there is an associated increase in the costs to satisfy CARB
17 environmental requirements related to retrofitting vehicles.⁴ These estimates for the ownership
18 cost categories are derived using a zero-based method, as explained below.

19 **Amortization** – A zero-based forecast is appropriate because costs vary according to
20 lease amortization schedules for units currently in the fleet or new units added. Therefore,
21 historical trends or averages will not properly represent the costs. Costs are actually determined
22 based on each vehicle lease schedule. The cost associated with lease amortization for 2014
23 through 2016 is based on year-end 2013 actual vehicles under lease financing plus the planned
24 replacement vehicles scheduled each year and requested incremental vehicle additions each year.
25 The increase in amortization costs in 2016 is due primarily to increasing lease balances of
26 replacement vehicles following the required replacement lifecycles and the requests for
27 incremental vehicles required by other SDG&E business units.

28 I did not use an alternate forecast method(s) or other historical data because neither is
29 appropriate since amortization expenses involve debt retirement and escalation, which are
30 included in the price estimates for new vehicle acquisition.

⁴ See discussion related to the retrofitting on CLH-6.

1 **Interest** - A zero-based forecast is appropriate because interest costs vary according to
2 lease amortization balances for units currently in the fleet or new units added. Therefore,
3 historical trends or averages will not properly represent the costs. Costs are actually determined
4 based on each vehicle lease balance. This method is most appropriate because interest costs in
5 each forecast year are based on monthly outstanding balances multiplied by the London
6 Interbank Offered Rate (“LIBOR”) contained in the Global Insight Forecast for the payment
7 month, then summed for the year.

8 Use of alternate forecast method(s) or certain historical data is not appropriate because
9 interest calculations are tied to the forecasted outstanding balances, and these balances vary year-
10 to-year depending on the number and value of leases.

11 **Salvage** - A zero-based forecast is appropriate because estimates of salvage proceeds for
12 each forecast year are determined by multiplying the number of vehicles expected to be replaced
13 during the year by the salvage received based on the 3-year average per-unit salvage amount.

14 Use of alternate forecast method(s) or certain historical data is not appropriate because
15 the value of the salvage proceeds is directly related to the forecasted number of vehicle
16 replacements.

17 **License Fees**- Historical trends or averages will not properly represent the costs. A zero-
18 based forecast, where the base year ratio of license fees to amortization is used to determine the
19 license fee costs is the most reasonable forecasting method. This methodology is considered
20 reasonable as the calculation to replicate the California Department of Motor Vehicles (“DMV”)
21 formulae⁵ for SDG&E fleet, which is comprised of more than two thousand fleet vehicles, is
22 complex. This estimating method has proven a reasonable approximation. More information is
23 included in my workpaper. See Ex. SDG&E- 16-WP License Fees and supplemental.

24 **3. Cost Drivers**

25 The cost drivers behind this forecast are attributed to the cost and timing of replacement
26 vehicles, future interest rate increases, and environmental and regulatory compliance-related
27 costs associated with the purchase and maintenance of vehicles and equipment. These drivers
28 are supported by the workpapers and supplemental documentation detailing the replacement of
29 vehicles and incremental request for ATCM diesel particulate filter replacements of 68 heavy

⁵ https://www.dmv.ca.gov/pubs/brochures/fast_facts/ffvr34.htm#reg.

1 duty vehicles. See Workpaper Ex. SDG&E-16-WP Amortization and supplemental for further
2 detail.

3 Additionally, as an Alternative Fuel Provider Fleet, 90% of the SDG&E annual light duty
4 vehicle purchases are required under the EAct to be approved alternative-fueled vehicles.⁶ To
5 achieve the 90% annual requirement, SDG&E plans to buy alternative fueled vehicles at a
6 premium. If SDG&E cannot achieve the 90% annual requirement, SDG&E may purchase EAct
7 credits.

8 C. Maintenance Operations

9 Maintenance Operations include: 1) safety inspections and routine maintenance of fleet
10 vehicles; 2) management of automotive fuel inventory (gasoline and diesel) to ensure the
11 availability of fuel to meet operating needs; 3) repair of vehicle damage and replacement of worn
12 and defective parts; and 4) compliance with all applicable Federal, State, and local
13 environmental, safety, and emissions regulations. The Automotive Fuels function of
14 Maintenance Operations involves the management of automotive fuel inventory to ensure the
15 availability of gasoline and diesel to meet operating needs.

16 SDG&E's fleet consists of over 2,000 vehicles and equipment. The fleet is divided into
17 over 125 individual vehicle classifications, which can be summarized into the following major
18 types shown in Table CLH-4:

19 **TABLE CLH-4**
20 **SDG&E Vehicle Types**
21 **(Year-End 2013)**

VEHICLE TYPES	No. of Units
Automobiles	105
Compact Trucks and Vans	453
Light Duty Trucks and Vans	717
Medium Duty Trucks and Vans	371
Heavy Duty Trucks and Vans	234
Subtotal over-the-road (OTR)	1,880
Trailers	241
Construction Equipment	101
Subtotal non-over-the-road (Non-OTR)	342
TOTAL	2,222

22

⁶ U.S. Department of Energy; EAct Fleet Information & Regulations.

In 2013, SDG&E vehicles were serviced at 11 fleet maintenance garages, including satellite facilities. SDG&E maintains a wide variety of vehicles to meet new construction requirements for customer growth, as well as gas and electricity distribution and transmission and customer service maintenance activities.

**TABLE CLH-5
Forecast for Maintenance Operations**

FLEET SERVICES			
Shown in Thousands of 2013 Dollars			
Maintenance Operations	2013 Adjusted-Recorded	TY2016 Estimated	Change
Vehicle Servicing & Repairs	11,931	13,673	1,742
Automotive Fuels	6,693	7,202	509
Total	18,624	20,875	2,251

1. Description of Costs and Underlying Activities

For TY 2016, Fleet Services’ Maintenance Operations requests \$20.875 million, an increase of \$2.251 million above 2013 adjusted-recorded costs, as summarized in Table CLH-5 above.

Vehicle Servicing & Repairs - Vehicle servicing and repair activities are carried out in 11 garage locations disbursed throughout SDG&E’s service territory. Primary cost drivers include costs to replace three units to comply with the Portable Diesel Engines Airborne Toxic Control Measures (“ATCM”), one full-time employee (“FTE”) to support SDG&E’s compliance with San Diego City fire code requirements for qualified operators of mobile fueling operations, and one full-time employee to support technician training. Details can be found in Ex. SDG&E - 16-WP Vehicle Servicing & Repairs and supplemental.

Automotive Fuels – The cost of fuel is a function of both price and quantity consumed. SDG&E attempts to reduce the financial impact of increasing prices through ongoing hedging activities. While improved fuel economy units will likely have a beneficial impact on fuel costs, the price will remain the dominant factor.

2. Forecast Method

Vehicle Servicing & Repairs - I have forecasted vehicle maintenance costs and fleet services maintenance and operations based on a 3-year historical average. The use of multi-year averaging is generally recognized as a reasonable and valid methodology where costs fluctuate

1 from year to year. Costs in this area are prone to fluctuations because of the volatility in
2 commodity prices. SDG&E cannot predict the changes in commodity prices, and must therefore
3 rely on averaging to arrive at a reasonable cost estimate. SDG&E did not use a five-year
4 historical average because the year 2009 was an anomaly as the nation recovered from a
5 recession.⁷ More information is included in my workpaper. See Ex. SDG&E-16-WP Vehicle
6 Servicing & Repairs and supplemental.

7 **Automotive Fuels** - I have forecasted automotive fuel using the 3-year average. The use
8 of multi-year averaging is generally recognized as a reasonable and valid methodology where
9 costs fluctuate from year to year. Costs in this area are prone to fluctuations because of the
10 volatility of fuel prices due to political, social, and economic concerns. The use of alternate
11 forecast method(s) is not applicable because of the fluctuations in the price of fuel. Such
12 volatility makes predicting the cost of fuel over an extended historical time difficult. As a result,
13 SDG&E must rely on averaging to arrive at a reasonable estimate. More information is included
14 in my workpaper. See Ex. SDG&E-16-WP Automotive Fuels.

15 **3. Cost Drivers**

16 The cost drivers behind this forecast are primarily due to the environmental, regulatory,
17 and safety requirements. In particular, there are costs are related to CARB's Portable Diesel
18 Engines Airborne Toxic Control Measures to ensure portable engines meet the stringent
19 emissions standards in 2017.⁸ The specifics of the environmental regulatory policy for the
20 ATCM is discussed in the testimony of SDG&E witness Mr. R. Scott Pearson (Ex. SDG&E-18).
21 Additionally, the costs to retrofit backup camera and sensor safety devices on over-the-road
22 vehicles in the fleet are included in this forecast.

23 In addition to incremental vehicles which also impact the cost of fuel, the cost of fuel has
24 been volatile due to global issues which impact fuel sources.⁹ For example, the cost of diesel has
25 increased 58% in the last five years and reformulated gasoline increased by 45%¹⁰. These cost
26 drivers are further described in in my workpaper, Ex. SDG&E-16-WP Automotive Fuels.

⁷ The National Bureau of Economic Research reported that the recession ended in June 2009.
<http://www.nber.org/cycles/sept2010.html>.

⁸ <http://www.arb.ca.gov/portable/portable.htm>.

⁹ http://www.eia.gov/dnav/pet/pet_pri_gnd_dcus_r50_a.htm.

¹⁰ *Id.*

1 contact between the customer and the Company. The quality of our fleet maintenance &
2 equipment, while enabling productive work, is also fundamental to the safety of our work crews
3 permitting them to restore service, provide services to new customers, and perform routine
4 inspection and maintenance. My requested forecast for Fleet Services is essential to the
5 continuation of our efforts and commitment to public and employee safety.

6 SDG&E requests that the Commission adopt the O&M forecasts presented in this
7 testimony. The forecasts were carefully developed and represent a prudent level of funding for
8 the critical activities to take place in this GRC term. The amounts requested for TY 2016 for
9 Fleet Services are necessary to meet the needs of utility operations and customer service. They
10 are based on an evaluation of 2009-2013 cost trends adjusted for known incremental increases
11 and decreases, and then forecasted for the 2014 through 2016 period.

12 This concludes my prepared direct testimony.
13

1 **IV. WITNESS QUALIFICATIONS**

2 My name is Carmen L. Herrera. My business address is 8101 S. Rosemead Blvd., Pico
3 Rivera, CA 90660. I am employed by Southern California Gas Company (“SCG”), as the
4 Director of Support Services responsible for overseeing Fleet Services for SoCalGas and
5 SDG&E, and Facility Operations and Capital Programs for SoCalGas. I have been in this
6 position since 2011.

7 I received a Bachelor’s of Science in Business Administration from the University of
8 Southern California and hold an inactive Certified Public Accountant license. I have been
9 employed by SCG, SDG&E, and/or Sempra Energy in various positions and responsibilities
10 since 2001. My experience is in numerous areas including Financial Planning, Supplier
11 Diversity, Facilities Maintenance, Construction, and Land management services.

12 I have not previously testified before the California Public Utilities Commission.
13

APPENDIX A - GLOSSARY OF ACRONYMS

AFV	Alternative Fuel Vehicle
ATCM	Airborne Toxic Control Measure
CARB	California Air Resources Board
EPA	United States Environmental Policy Agency
EPAct	Energy Policy Act of 1992
FTEs	Full Time Equivalents
NGV	Natural Gas Vehicle
NHTSA	National Highway Traffic Safety Administration
Non-OTR	Non-over-the-road vehicles such as trailers and forklifts
O&M	Operations and Maintenance
OSHA	Occupational Safety and Health Administration
OTR	Over-the-Road vehicles such as automobiles and trucks