TURN DATA REQUEST
TURN-SDG&E-DR-15
SDG&E 2016 GRC – A.14-11-003
SDG&E RESPONSE
DATE RECEIVED: JUNE 11, 2015
DATE RESPONDED: JUNE 19, 2015

SDG&E-01-R – Policy Overview

1. At page SDD-5, the testimony states that a "typical" residential electric customer (an inland customer with winter usage of 500 kWh) can expect a bill decrease of $0.25 per month (or -0.3%) as compared to estimated 2015 rates. For each of the subparts that follow, please provide the supporting calculations in an Excel spreadsheet, with all formulae intact.
    a. Please describe how the monthly amount of 500 kWh was identified as the "typical" level of usage for a residential electric customer.
    b. Please provide the average monthly amount of kWh used by an inland residential electric customer during the summer.
    c. Please provide the average monthly amount of kWh used by a coastal residential electric customer during the summer.
    d. Please provide the average monthly amount of kWh used by a coastal residential electric customer during the winter.
    e. Please provide the monthly average usage (stated in kWh per month) for the average CARE residential customer in the most recently recorded year.
    f. Please provide workpapers supporting the calculation of the bill increase of negative 0.3%.
    g. Please calculate the bill increase that an average inland residential electric non-CARE customer would see, using SDG&E's calculation but holding all factors other than the GRC revenue requirement equal as between 2015 and 2016. Please provide workpapers supporting the calculation of the bill increase.
    h. Please calculate the bill increase that an average inland residential electric CARE customer would see, using SDG&E's calculation but holding all factors other than the GRC revenue requirement equal as between 2015 and 2016. Please provide workpapers supporting the calculation of the bill increase.

SDG&E Response:

GRC electric rates and bill impact calculations are developed by the Electric Rates witness, Cynthia Fang (Ex. SDG&E-39-R):

a. Average levels of usage can differ from year, so when doing illustrative bill impacts, SDG&E uses a constant level of usage to represent its "typical" residential customer in order to provide a basis to compare rate impacts on customer bills. SDG&E's "typical" electric residential customer is a non-CARE customer using 500 kWh. SDG&E has been using 500 kWh to calculate typical residential bills because average usage for the residential class has consistently been around 500 kWh.

Response to Question 1 (Continued)

b. The 5-year (2010-2014) historical average monthly amount of kWh used by a non-CARE inland residential electric customer during the summer is 567 kWh.
c. The 5-year (2010-2014) historical average monthly amount of kWh used by a non-CARE coastal residential electric customer during the summer is 467 kWh.
d. The 5-year (2010-2014) historical average monthly amount of kWh used by a non-CARE coastal residential electric customer during the winter is 470 kWh.
e. The 2014 average monthly amount of kWh used by the average CARE residential electric customer is 423 kWh.
f. The residential bill impact of -0.3% is based on the Direct Testimony of witness Cynthia Fang (SDG&E-39) filed November 14, 2014, which has been superseded by the Revised Prepared Direct Testimony of witness Cynthia Fang (SDG&E-39-R) filed on March 25, 2015. The revised estimated bill impact is -0.5% and can be found on page CSF-ii of Exhibit SDG&E-39-R, Revised Direct Testimony of Cynthia Fang. The workpapers supporting both of these estimated bill impacts are included in this data request response.
   The development of the 2015 to 2016 bill impact is based on two models: one which compares bills under the then-current 8/1/14 rates to bills under the estimated 2015 rates, and the second which compares bills under the then-current 8/1/14 rates to bills under the proposed 2016 rates. The bill impacts presented in the testimony of Cynthia Fang is then based on the bills under the estimated 2015 rates to the proposed 2016 rates. This model illustrates the residential bill impacts (shown on the first four tabs) based on the present and proposed rates from the "Rate Impact" tab.
   The files "Res Bill Calc Model 8-1-14 as present – 2015 wp.xlsx" and "Res Bill Calc Model 8-1-14 as present 2016 GRC App wp.xlsx" are the workpapers for what was used in the GRC Application. Cell G52 on the "Inland and Coastal" tab will show the estimated rates for 2015 and the proposed rates for 2016 on the two models, respectively, for an inland customer at 500 kWh during the winter. The bill impact is a decrease of 0.3%.
   The files "Res Bill Calc Model 8-1-14 as present –March Revised 2015 wp.xlsx" and "Res Bill Calc Model 8-1-14 as present March Revised 2016 wp.xlsx" are the workpapers for what was used in the March revised filing. Cell G54 on the "Inland and Coastal" tab will show bill for an inland customer with 500 kWh during the winter based on the estimated rates for 2015 and the proposed rates for 2016 on the two models, respectively. The bill impact is a decrease of 0.5%.
g. The files "Res Bill Calc Model 8-1-14 as present – March Revised 2015 wp.xlsx" and "Res Bill Calc Model 8-1-14 as present March Revised 2016 wp.xlsx" are the workpapers that include bill impacts based on the 5-year historical monthly average (524 kWh) for an inland residential electric non-CARE customer winter bill impact. The requested bill impacts calculation is based on the same rates impacts as presented in the March 2015 Revised Testimonies. Cell G55 on the

Response to Question 1 (Continued)

h. "Inland and Coastal" tab presents the bill for an Inland customer with 524 kWh during the winter based on estimated rates for 2015 and proposed 2016 on the two models, respectively. The bill impact is a decrease of 0.7%.

i. The files "Res CARE Bill Calc Model 8-1-14 as present –March Revised 2015 wp.xlsx" and "Res CARE Bill Calc Model 8-1-14 as present March Revised 2016 wp.xlsx" are the workpapers that include bill impacts based on the 5-year historical monthly average (459 kWh) inland residential electric CARE customer winter bill impact. The requested bill impacts calculation is based on the same rate impacts as presented in the March 2015 Revised Testimonies. Cell G54 on the "Inland and Coastal" tab presents the bill of an Inland CARE customer with 459 kWh during the winter based on estimated rates for 2015 and proposed rates for 2016 on the two models, respectively. The bill impact is a decrease of 1.0%.

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2. At page SDD-5, the testimony states that an typical residential gas customer (using 28 therms per month) can expect a bill decrease of $0.32 per month (or -0.8%) as compared to estimated 2015 rates. For each of the subparts that follow, please provide the supporting calculations in an Excel spreadsheet, with all formulae intact.
    a. Please describe how the monthly average that appears in the SDG&E testimony was calculated, including but not limited to the period of usage reflected in the average.
    b. Please provide the monthly average usage (stated in therms per month) for the average residential customer in the most recently recorded year.
    c. Please provide the monthly average usage (stated in therms per month) for the average non-CARE residential customer in the most recently recorded year.
    d. Please provide the monthly average usage (stated in therms per month) for the average CARE residential customer in the most recently recorded year.
    e. Please provide workpapers supporting the calculation of the bill increase of negative 0.8%.
    f. Please calculate the bill increase that an average inland residential gas non-CARE customer would see, using SDG&E's calculation but holding all factors other than the GRC revenue requirement equal as between 2015 and 2016. Please provide workpapers supporting the calculation of the bill increase.
    g. Please calculate the bill increase that an average inland residential gas CARE customer would see, using SDG&E's calculation but holding all factors other than the GRC revenue requirement equal as between 2015 and 2016. Please provide workpapers supporting the calculation of the bill increase.

SDG&E Response:

GRC gas rates and bill impacts are developed by the Gas Rates witness, Sharim Chaudhury (Ex. SDG&E-40-R):

a. The monthly average of 28 therms/month is a historical rolling five-year average (2008-2012) of average residential usage, as shown in the first tab, "Response 2a", of the attached excel file.
b. The requested information is provided in the attached excel file, second tab, "Response 2b".
c. The requested information is provided in the attached excel file, third tab, "Response 2c".
d. The requested information is provided in the attached excel file, fourth tab, "Response 2d".
e. The attached workpaper supports the calculation of 0.9% bill decrease. This 0.9% bill decrease reflects the Revised Direct Testimony of SDG&E (Ex. SDG&E-40-R).

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Response to Question 2 (Continued)

f. The "inland" climate zone designation applies to SDG&E's electric customers; on the gas side, this is not applicable. For gas customers, SDG&E has calculated gas bill impacts for its whole service territory. Further, in estimating bill impacts, SDG&E has used current rates (effective January 1, 2015) and the proposed GRC 2016 rates as shown in the March 2015 Revised Testimonies. The requested information is provided in the attached excel file in the first tab, "Response 2f".

g. The "inland" classification applies to SDG&E's electric customers; on the gas side, this is not applicable. For gas customers, SDG&E has calculated gas bill impacts for its whole service territory. Further, in estimating bill impacts, SDG&E has used current rates (effective January 1, 2015) and the proposed GRC 2016 rates as shown in the March 2015 Revised Testimonies. The requested information is provided in the attached excel file above, second tab, "Response 2g".