

**UNITED STATES OF  
AMERICA BEFORE THE  
FEDERAL ENERGY REGULATORY COMMISSION**

**San Diego Gas & Electric Company**

**Docket No. ER16- -000**

**ANNUAL UPDATES FILING OF THE  
TRANSMISSION REVENUE BALANCING  
ACCOUNT ADJUSTMENT (TRBAA)  
AND TRANSMISSION ACCESS CHARGE  
BALANCING ACCOUNT ADJUSTMENT (TACBAA)**

**December 17, 2015**



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December 17, 2015

The Hon. Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, D.C. 20426

**Re: San Diego Gas & Electric Company, 2016 Annual TRBAA and TACBAA  
Rate Revision, Docket No. ER16-\_\_\_\_-000**

Dear Ms. Bose:

Pursuant to Section 35.13 of the regulations of the Federal Energy Regulatory Commission ("FERC" or "Commission"), 18 C.F.R. § 35.13,<sup>1</sup> San Diego Gas & Electric Company ("SDG&E") submits for filing and acceptance two adjustments to the rates and revenue requirements under its Transmission Owner Tariff ("TO Tariff"). These adjustments, made in accordance with the terms of the TO Tariff, are based on the annual updates to: (1) the Transmission Revenue Balancing Account Adjustment ("TRBAA"); and (2) the Transmission Access Charge Balancing Account Adjustment ("TACBAA").<sup>2</sup>

Specifically, this filing updates: (a) the TRBAA rate for end-use retail customers and the TRBAA to be used by the California Independent System Operator Corporation ("CAISO") in calculating its Transmission Access Charge ("TAC"); and (b) the TACBAA rate. The requested effective date for each of these adjustments is January 1, 2016.<sup>3</sup>

The documents submitted with this filing are detailed in Section VII at p. 6 below.

<sup>1</sup> 16 U.S.C. § 824d; 18 C.F.R. §§ 35, *et seq.* (2014).

<sup>2</sup> Unless otherwise indicated, words with initial capitalization are used as defined in SDG&E's TO Tariff or in the CAISO's FERC tariff.

<sup>3</sup> SDG&E's most recent annual TRBAA and TACBAA update filing was accepted by the Commission effective January 1, 2015, in Docket No. ER15-679-000, by delegation letter order dated February 13, 2015.

## **I. TRBAA RATES AND REVISIONS**

The TRBAA is the ratemaking mechanism designed to ensure that all Transmission Revenue Credits flow through to transmission customers. Section 5.5 of the TO Tariff identifies the items subject to the Transmission Revenue Balancing Account Adjustment and sets forth the procedure for revising the TRBAA rate annually. The TRBAA is based on the recorded balance in the TRBAA as of September 30 of the current year, and a forecast of the Transmission Revenue Credit expected to be received in the following year.

### **A. TRBAA Rate for End-Use Customers (Retail)**

The retail TRBAA rate revision is based on: (a) the recorded TRBAA balance, which includes the principal TRBAA balance as of September 30, 2015; (b) SDG&E's 2016 TRBAA Transmission Revenue Credit forecast; and (c) an adjustment for Franchise Fees and Uncollectible Accounts ("FF&U").

As shown in Statement BK-1 of Attachment C, the TRBAA balance is a credit to End-Use Customers of (\$2,464,403), the forecasted TRBAA Transmission Revenue Credit is a credit of (\$13,309,224), and the FF&U adjustment is a credit of (\$190,072). As a result, the final 2016 retail TRBAA is a credit to End-Use Customers of (\$15,963,699), as compared to the 2015 retail TRBAA revenue requirements which was a credit of (\$11,966,182). The increase in Transmission Revenue Credit was primarily due to the CAISO's distribution of non-refundable interconnection financial security and study deposit amounts related to charge code 8526. To pass through this credit, SDG&E is proposing a 2016 TRBAA rate of (\$0.00081) per kWh, compared to the current rate of (\$0.00060) per kWh.

### **B. TRBAA for Purposes of Calculating the CAISO's TAC (Wholesale)**

The wholesale TRBAA is based on: (a) the recorded TRBAA balance, which includes the principal TRBAA balance as of September 30, 2015; (b) SDG&E's 2016 TRBAA Transmission Revenue Credit forecast; and (c) an adjustment for Franchise Fees. In accordance with CAISO Tariff Section 26.1, SDG&E has allocated the wholesale TRBAA revenue requirement between High and Low Voltage for purposes of calculating CAISO TAC rates. As reflected in Statement BK-2 of Attachment C, the total 2016 TRBAA wholesale revenue requirement for calculating the CAISO's TAC is a credit to customers of (\$15,936,253), which has been allocated to High and Low Voltage at (\$15,731,056) and (\$205,197), respectively.

### **C. Amendment to Section 5.5 of TO Tariff**

SDG&E amends Section 5.5 of its TO Tariff for the term and definition of "U - An adjustment uncollectible accounts expense if applicable". As indicated in Attachments A and B, the Conformed and Redline versions of the TO Tariffs, the amended term and definition will be: "FF&U - An Adjustment for Franchise Fees and Uncollectible Accounts." This amendment conforms the definition to how SDG&E has in fact maintained this balancing account in the past,

and it maintains consistency with the tariff language of the other California investor owned utilities that participate in the CAISO's open access transmission tariff.<sup>4</sup>

## **II. TACBAA RATE AND REVISIONS**

### **A. TACBAA Rate**

The TACBAA is a ratemaking mechanism designed to ensure that the difference in the amount of costs billed to SDG&E as a load-serving entity and the revenues paid to SDG&E as a Participating Transmission Owner under the CAISO Tariff is recovered from or returned to SDG&E's End-Use Customers. Section 5.6 of the TO Tariff describes items to be included in the TACBAA and sets forth the procedure for revising the TACBAA Rate on an annual basis. The 2016 TACBAA rate consists of three components: (1) the projected balance of the TACBAA as of December 31, 2015, including interest, which consists of the recorded balance as of October 31 and the projected change for the remaining months of the period prior to the commencement of the billing cycle implementing a new rate; (2) the forecasted net TACBAA costs for the next rate effective period; and (3) the Franchise Fees and Uncollectible Accounts ("FF&U").

In the combined Statement BK and Statement BL of Attachment D, the total revenue requirements ("RRQ") used in the development of the 2016 TACBAA rate is the sum of the projected year-end balance of the TACBAA of \$67,830,000, a forecast of the TACBAA net costs of (\$237,627,654), and the FF&U adjustment of (\$2,046,062). The derivation of the TACBAA equals (\$171,843,716) and the corresponding TACBAA rate is a credit of (\$0.00870)/kWh. This represents a decrease from the 2015 TACBAA RRQ of (\$270,422,464) and the corresponding rate of (\$0.01359)/kWh. The change in the TACBAA credit was primarily due to an under-forecast of the CAISO's annual TAC billings for 2015.

### **B. Amendments to Section 5.6 of TO Tariff**

In Attachments A and B, the Conformed and Redlined tariffs, SDG&E proposes the following amendments to Section 5.6 of its TO Tariff as follows:

- Br = The balance in the TACBAA, including interest, consisting of the recorded balance and the projected change for the remaining months of the period prior to the commencement of the billing cycle implementing a new rate.
- FF&U = An Adjustment for Franchise Fees and Uncollectible Accounts; and

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<sup>4</sup> See, e.g., *Pacific Gas & Electric Co.* ("PG&E"), Docket No. ER16-487-000, PG&E TO Tariff Sections 5.6 and 5.7; *Southern California Edison* ("SCE"), Docket No. ER11-3248-000, SCE TO Tariff Sections 5.5 and 5.6.

- S = Total Gross Load, in kilowatt-hours measured at the customer meter level, recorded for the most recent twelve-month period prior to the Participating TO's filing with the FERC to revise the TACBAA rate.

SDG&E amends the term "Br" to Section 5.6 of its TO Tariff so that it will consist of the recorded balance in the account, plus the projected account balance change that is expected to occur prior to the date when the new rates become effective. Previously, changes that occurred between September 30 of the current year and the rate effective date, which was a period of three months, were not accounted for in the calculation of the principal TACBAA balance. SDG&E's experience with the TACBAA has shown that the current definition of principal balance has contributed to the under-collection in its TACBAA balancing account. This amendment will result in a TACBAA rate that is more accurate.

SDG&E also amends Section 5.6 of its TO Tariff for the term and definition of "U - An adjustment for uncollectible accounts expense if applicable". Attachments A and B reflect the amended term and definition which will be: "FF&U – An Adjustment for Franchise Fees and Uncollectible Accounts." As with the definition revision for the TRBAA described in the prior section, this amendment conforms the definition to how SDG&E has in fact maintained this balancing account in the past, and it maintains consistency with the tariff language of the other California investor owned utilities that participate in the CAISO's open access transmission tariff.

Lastly, SDG&E amends Section 5.6 of its TO Tariff for the definition of the term "S" to include the total gross load, in kilowatt hours measured at the customer meter level, recorded for the most recent twelve-month period prior to the Participating TO's filing with the FERC to revise the TACBAA rate.

### **III. APPENDIX I REQUIRED PER CAISO TARIFF – SDG&E'S BTRR**

The CAISO uses SDG&E's Base Transmission Revenue Requirement ("BTRR") for the derivation of the CAISO TAC rate. The BTRR is divided into High Voltage ("HV") and Low Voltage ("LV") components. Accordingly, SDG&E has included in Attachment E, Appendix I, its BTRR as required by the CAISO tariff. SDG&E is not requesting the Commission to approve this appendix because the HV and LV BTRR components shown in this appendix are approved by the Commission in a separate docket related to the TO Tariff. The HVTRR reflects the TO4, Cycle 3 BTRR that will go into effect January 1, 2016,<sup>5</sup> and the TRBAA amounts come from the instant filing.

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<sup>5</sup> SDG&E submitted this TO4, Cycle 3 filing on December 1, 2015, which was docketed no. ER16-445-000. "TO4" refers to SDG&E's fourth Transmission Owner formula rate accepted for filing by the Commission in Docket No. ER13-941-000, 144 FERC ¶ 61,078 (July 31, 2013). "Cycle 3" refers to the fact the formula rate contemplates annual filings, and that this represents the third such filing under the fourth formula rate.

#### IV. EFFECTIVE DATE

SDG&E respectfully requests, pursuant to Section 35.11 (18 C.F.R. § 35.11) of the Commission's Regulations, waiver of the 60-day prior notice requirement specified in Section 35.3, and requests the Commission to assign the revised tariff sections an effective date of January 1, 2016. This waiver will permit SDG&E to revise the TACBAA rate based on the most recent BTRR submitted to the Commission,<sup>6</sup> while keeping rate changes pursuant to the TO Tariff with the same effective date of January 1,<sup>7</sup> which is consistent with the TO Tariff and will minimize the customer and cost effects of rate changes.

Such waiver would be consistent with the Commission's policy set forth in *Central Hudson Gas & Electric Corp.*, 60 FERC ¶ 61,089 (1992), that waiver of the 60-day prior notice requirement generally will be appropriate for filings that modify rates when the rate change and its effective date are prescribed by a tariff on file with the Commission, such as annual rate revisions required by an agreement to become effective on a date specified therein. Because the terms of Sections 5.5 and 5.6 of the TO Tariff require SDG&E to update its TRBAA and TACBAA each January, and because a waiver will not affect SDG&E's other rate schedules, a waiver of the 60-day prior notice requirement is appropriate to permit the proposed rate revisions to take effect on January 1, 2016 or as outlined above.

#### V. OTHER MATTERS

No expenses or costs included in the rates tendered herein have been alleged or judged in any administrative or judicial proceeding to be illegal, duplicative or unnecessary costs that are demonstrably the product of discriminatory employment practices.

SDG&E believes that the information contained in this filing provides a sufficient basis upon which to accept this filing. However, SDG&E further requests that the Commission waive its filing requirements contained in Part 35 of its regulations to the extent necessary to permit this filing to be made effective as requested.

SDG&E believes this filing conforms to any rule of general applicability and to any Commission order specifically applicable to SDG&E, and has made copies of this letter and all enclosures available for public inspection in SDG&E's principal office located in San Diego, California. SDG&E has mailed copies to those persons whose names appear on the enclosed service list.

SDG&E has conformed its tariff sections submitted herewith to the format required by Commission Order No. 714.

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<sup>6</sup> In Docket No. ER16-445-000 (filed December 1, 2015).

<sup>7</sup> In addition to the rate changes requested with this filing, annual TO Tariff rate changes take effect on January 1 each year pursuant to (1) the approved formula rate, and for (2) the reliability services balancing account.

## VI. CORRESPONDENCE

SDG&E requests that all correspondence, pleadings and other communications concerning this filing be served upon the following individuals:

E. Gregory Barnes  
Attorney  
San Diego Gas & Electric Company  
8330 Century Park Court, CP32D  
San Diego, California 92123  
Tel. (858) 654-1583  
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Transmission Revenue Manager  
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8315 Century Park Court  
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Fax (858) 654-1788  
[JStein@semprautilities.com](mailto:JStein@semprautilities.com)

## VII. LIST OF DOCUMENTS SUBMITTED

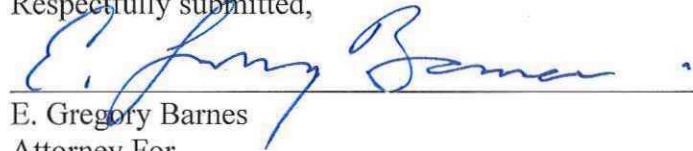
The documents submitted with this electronic filing are this transmittal letter, together with the following attachments:

- A. Revised TO Tariff sections conformed version
- B. Revised TO Tariff sections redline version
- C. TRBAA Cost Statements and Related Work Papers
- D. TACBAA Cost Statements and Related Work Papers
- E. Appendix I Per CAISO Tariff – SDG&E’s Transmission Revenue Requirements
- F. Attestation

## VIII. CONCLUSION

SDG&E respectfully requests that the Commission accepts and approves the rate and tariff changes tendered herewith, effective January 1, 2016.

Respectfully submitted,



E. Gregory Barnes  
Attorney For  
SAN DIEGO GAS & ELECTRIC COMPANY

December 17, 2015

Enclosures

**CERTIFICATE OF SERVICE**

I hereby certify that on this 17th day of December, 2015, I caused the foregoing to be served by overnight delivery upon the following:

Arocles Aguilar  
General Counsel  
California Public Utilities Commission  
505 Van Ness Avenue  
San Francisco, CA 94102

Roger Collanton  
General Counsel  
California Independent System Operator Corporation  
250 Outcropping Way  
Folsom, CA 95630

Dated at San Diego, California, this 17th day of December, 2015.

*/s/ Tamara Grabowski*

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Tamara Grabowski  
Legal Administrative Associate  
SDG&E Law Department  
8330 Century Park Court, CP32D  
San Diego, California 92123  
Phone: (858) 654-1827



San Diego Gas & Electric Company  
2016 TRBAA & TACBAA Filing

Attachment – A  
Revised Transmission Owner (“T.O.”)  
Tariff Sheets Conformed Version

**APPENDIX III**

**Access Charges for End-Use Customers**

**[SEE ATTACHED]**

**Retail  
Transmission Revenue Balancing Account Adjustment Rate  
(TRBAA)**

A Transmission Revenue Balancing Account Adjustment Rate equal to (\$0.00081) per kilowatt-hour shall be applied to all SDG&E End-User Customers bills.

**ISO Wholesale  
Transmission Revenue Balancing Account Adjustment  
TRBAA  
Service Year 2016**

A:	High Voltage TRBAA	\$	(15,731,056)
B.	Low Voltage TRBAA		<u>(205,197)</u>
C.	Total ISO Wholesale TRBAA:	\$	<u>(15,936,253)</u>

**Transmission Access Charge Balancing Account Adjustment Rate  
(TACBAA)**

A Transmission Access Charge Balancing Account Adjustment Rate equal to  
(\$0.00870) per kilowatt-hour shall be billed to all SDG&E End-User Customers.

for information only. In addition, all customers of a Local Publicly Owned Electric Utility that is a Participating TO shall be subject to the Local Regulatory Authority authorized TRBAA, which shall also be submitted to the ISO. The Participating TO's End-User transmission rates, by retail rate schedule, are determined pursuant to the provisions of Appendices VIII and IX hereof. The End-User transmission rates applicable during the Rate Effective Period are available on SDG&E's OASIS, which is shown at [www.sdge.com\toforum](http://www.sdge.com\toforum), or through a link to SDG&E's web page that is accessible through the CAISO's OASIS at [www.caiso.com](http://www.caiso.com). An End-User shall pay the same End-User transmission rate as other similarly situated End-Use Customers of the Participating TO regardless of its energy supplier. End-Users withdrawing power from the Participating TO's transmission or distribution facilities shall not qualify for transmission access under the Wheeling Access Charge if FERC would be prohibited from ordering transmission service for such customer by Section 212(h) of the FPA.

- 5.4. Transmission Revenue Requirement. As set forth in the ISO Tariff, the Transmission Revenue Requirement for each Participating TO shall be used to develop the Access Charges set forth in the ISO Tariff. The Transmission Revenue Requirement, High Voltage Transmission Revenue Requirement, and Low Voltage Transmission Revenue Requirement for the Participating TO are set forth in Appendix I.
- 5.5. Transmission Revenue Balancing Account Adjustment (TRBAA). The Participating TO shall maintain a Transmission Revenue Balancing Account Adjustment ("TRBAA") that will ensure that all Transmission Revenue Credits and the refunds, specified in Sections 6 and 8 of Appendix F. Schedule 3 of the ISO Tariff, associated with transmission service are flowed through to customers taking transmission service from the ISO. The TRBAA shall be equal to:

$$\text{TRBAA} = \text{Cr} + \text{Cf} + \text{I} + \text{FF\&U}$$

Where:

Cr = The principal balance in the TRBAA recorded in FERC Account No. 254 as of September 30 of the year prior to commencement of the January billing cycle. This balance represents the unamortized balance in the TRBAA from the previous period and the difference in the amount of revenues from Transmission Revenue Credits and the amount of such revenues that has been refunded to customers through operation of the TRBAA, adjusted for franchise fees and uncollectible accounts expense;

Cf = The forecast of Transmission Revenue Credits for the following calendar year;

I = The interest balance for the TRBAA, which shall be calculated using the interest rate pursuant to Section 35.19(a) of FERC's regulations under the Federal Power Act (18 CFR Section 35.19(a)). Interest shall be calculated based on the average TRBAA principal balance each month, compounded quarterly; and

FF&U= An adjustment for franchise fees and uncollectible accounts.

Beginning in January of each year, the bills of End-Use Customers of the Participating TO shall include, as a component of the End-User transmission rates, a TRBAA rate per kilowatt-hour (rounded to the nearest \$0.00001) equal to:

$$\frac{\text{TRBAA Rate} = \text{TRBAA}}{S}$$

component of the End- User transmission rates, a TACBAA rate per kilowatt-hour (rounded to the nearest \$0.00001) equal to:

$$\frac{\text{TACBAA Rate} = \text{Br} + \text{Bf} - \text{Rf} + \text{FF\&U}}{\text{S}}$$

Where:

Br = The Balance of the TACBAA, including interest, consisting of the recorded balance and the projected change for the remaining months of the period prior to the commencement of the billing cycle implementing a new rate;

Bf = A forecast of the annual Access Charge billings from the ISO;

Rf = A forecast of the annual revenues disbursed by the ISO to the Participating TO pursuant to Section 26.1.3 of the ISO Tariff;

FF&U = An adjustment for franchise fees and uncollectible accounts; and

S = Total Gross Load, in kilowatt-hours measured at the customer meter level, recorded for the most recent twelve-month period prior to the Participating TO's filing with FERC to revise the TACBAA rate.

The TACBAA shall be revised effective January 1 of each year; however, nothing herein shall preclude the Participating TO from filing with the FERC to revise the TACBAA rate at any other time.

San Diego Gas & Electric Company  
2016 TRBAA & TACBAA Filing

Attachment – B  
Revised Transmission Owner (“T.O.”)  
Tariff Sheets Redline Version



**APPENDIX III**

**Access Charges for End-Use Customers**

**[SEE ATTACHED]**

**Retail  
Transmission Revenue Balancing Account Adjustment Rate  
(TRBAA)**

A Transmission Revenue Balancing Account Adjustment Rate equal to  
(\$0.000~~8160~~) per kilowatt-hour shall be applied to all SDG&E End-User Customers  
bills.

**ISO Wholesale  
Transmission Revenue Balancing Account Adjustment  
TRBAA  
Service Year 201~~6~~5**

A:	High Voltage TRBAA	\$ (15,731,05611,344,773)
B:	Low Voltage TRBAA	-(205,197600,836)
C:	Total ISO Wholesale TRBAA:	\$ (15,936,25311,945,609)

**Transmission Access Charge Balancing Account Adjustment Rate  
(TACBAA)**

A Transmission Access Charge Balancing Account Adjustment Rate equal to

(\$~~0.008704359~~) per kilowatt-hour shall be billed to all SDG&E End-User

Customers.

for information only. In addition, all customers of a Local Publicly Owned Electric Utility that is a Participating TO shall be subject to the Local Regulatory Authority authorized TRBAA, which shall also be submitted to the ISO. The Participating TO's End-User transmission rates, by retail rate schedule, are determined pursuant to the provisions of Appendices VIII and IX hereof. The End-User transmission rates applicable during the Rate Effective Period are available on SDG&E's OASIS, which is shown at [www.sdge.com/toforum](http://www.sdge.com/toforum), or through a link to SDG&E's web page that is accessible through the CAISO's OASIS at [www.caiso.com](http://www.caiso.com). An End-User shall pay the same End-User transmission rate as other similarly situated End-Use Customers of the Participating TO regardless of its energy supplier. End-Users withdrawing power from the Participating TO's transmission or distribution facilities shall not qualify for transmission access under the Wheeling Access Charge if FERC would be prohibited from ordering transmission service for such customer by Section 212(h) of the FPA.

- 5.4. Transmission Revenue Requirement. As set forth in the ISO Tariff, the Transmission Revenue Requirement for each Participating TO shall be used to develop the Access Charges set forth in the ISO Tariff. The Transmission Revenue Requirement, High Voltage Transmission Revenue Requirement, and Low Voltage Transmission Revenue Requirement for the Participating TO are set forth in Appendix I.
- 5.5. Transmission Revenue Balancing Account Adjustment (TRBAA). The Participating TO shall maintain a Transmission Revenue Balancing Account Adjustment ("TRBAA") that will ensure that all Transmission Revenue Credits and the refunds, specified in Sections 6 and 8 of Appendix F. Schedule 3 of the ISO Tariff, associated with transmission service are flowed through to customers taking transmission service from the ISO. The TRBAA shall be equal to:

$$| \quad \text{TRBAA} = \text{Cr} + \text{Cf} + \text{I} + \text{FF\&U}$$

Where:

Cr = The principal balance in the TRBAA recorded in FERC Account No. 254 as of September 30 of the year prior to commencement of the January billing cycle. This balance represents the unamortized balance in the TRBAA from the previous period and the difference in the amount of revenues from Transmission Revenue Credits and the amount of such revenues that has been refunded to customers through operation of the TRBAA, adjusted for franchise fees and uncollectible accounts expense;

Cf = The forecast of Transmission Revenue Credits for the following calendar year;

I = The interest balance for the TRBAA, which shall be calculated using the interest rate pursuant to Section 35.19(a) of FERC's regulations under the Federal Power Act (18 CFR Section 35.19(a)). Interest shall be calculated based on the average TRBAA principal balance each month, compounded quarterly; and

FF&U= An adjustment for franchise fees and uncollectible accounts expense if applicable.

Beginning in January of each year, the bills of End-Use Customers of the Participating TO shall include, as a component of the End-User transmission rates, a TRBAA rate per kilowatt-hour (rounded to the nearest \$0.00001) equal to:

$$\underline{\text{TRBAA Rate}} = \text{TRBAA}$$

frozen retail rates established pursuant to California Assembly Bill 1890, the bills of End-Use Customers of the Participating TO shall include, as a component of the End- User transmission rates, a TACBAA rate per kilowatt-hour (rounded to the nearest \$0.00001) equal to:

$$\frac{\text{TACBAA Rate} = \text{Br} + \text{Bf} - \text{Rf} + \text{FF\&U}}{\text{S}}$$

Where:

Br = The Balance ~~in~~of the TACBAA, including interest, consisting of the recorded balance as of September 30 and the projected change for the remaining months of the of the year period prior to the commencement of the ~~January~~billing cycle implementing a new rate;

Bf = A forecast of the annual Access Charge billings from the ISO;

Rf = A forecast of the annual revenues disbursed by the ISO to the Participating TO pursuant to Section 26.1.3 of the ISO Tariff;

FF&U = An adjustment for franchise fees and uncollectible accounts; expense if applicable; and

S = Total Gross Load, in The total kilowatt-hours of Gross Load measured at the customer meter level, ~~as~~ recorded for the most recent twelve-month period ~~ending September 30 of the year~~ prior to the Participating TO's filing with FERC to revise the TACBAA rate commencement of the January billing cycle.

The TACBAA shall be revised effective January 1 of each year; however, nothing herein shall preclude the Participating TO from filing with the FERC to revise the TACBAA rate at any other time.

San Diego Gas & Electric Company  
2016 TRBAA Rate Filing

Attachment - C  
Transmission Revenue Balancing  
Account Adjustment (TRBAA)  
Cost Statements

**San Diego Gas & Electric Company  
Annual TRBAA Rate Filing  
Cost Statements  
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# San Diego Gas & Electric Company

## Attachment – C (Cont'd)

### A. Statement BD - Allocation Energy and Supporting Data

ER16-\_\_\_\_-000

**Statement BD**  
**San Diego Gas & Electric Company**  
**2016 - TRBAA Rate Filing**

**Allocation Energy and Supporting Data**

Line No.	Date	(A) Retail Energy Sales @ Meter Level Plus Sale for Resale	(B) Sale for Resale (Escondido Mutual) <sup>1</sup>	(C) = (A) - (B) Retail Energy Sales @ Meter Level Net of Sale for Resale	Reference	Line No.
1	Oct-14	1,818,280,061	4,679	1,818,275,382	Workpaper No. 12; Page 12.1; Lines 30; 29	1
2	Nov-14	1,583,013,782	11,300	1,583,002,482	Workpaper No. 12; Page 12.1; Lines 30; 29	2
3	Dec-14	1,585,803,025	14,983	1,585,788,042	Workpaper No. 12; Page 12.1; Lines 30; 29	3
4	Jan-15	1,665,917,740	7,458	1,665,910,282	Workpaper No. 12; Page 12.1; Lines 30; 29	4
5	Feb-15	1,547,755,994	460	1,547,755,534	Workpaper No. 12; Page 12.1; Lines 30; 29	5
6	Mar-15	1,486,104,093	3,395	1,486,100,698	Workpaper No. 12; Page 12.1; Lines 30; 29	6
7	Apr-15	1,529,443,838	6,764	1,529,437,074	Workpaper No. 12; Page 12.1; Lines 30; 29	7
8	May-15	1,501,105,246	4,492	1,501,100,754	Workpaper No. 12; Page 12.1; Lines 30; 29	8
9	Jun-15	1,443,047,630	574	1,443,047,056	Workpaper No. 12; Page 12.1; Lines 30; 29	9
10	Jul-15	1,746,689,756	1,533	1,746,688,223	Workpaper No. 12; Page 12.1; Lines 30; 29	10
11	Aug-15	1,779,922,387	535	1,779,921,852	Workpaper No. 12; Page 12.1; Lines 30; 29	11
12	Sep-15	1,934,884,408	536	1,934,883,872	Workpaper No. 12; Page 12.1; Lines 30; 29	12
13						13
14						14
15	Total	19,621,967,960	56,709	19,621,911,251	Sum Lines 1 thru 12	15

**Notes:**

<sup>1</sup> Escondido Mutual sales are excluded from the KWh total because they are classified as sales to wholesale customers.

**Statement BD**  
**San Diego Gas & Electric Company**  
**2016 - TRBAA Rate Filing**  
**Allocation Energy and Supporting Data**

Line No.	Date	(A) Retail Energy Sales @ Meter Level Plus Sale for Resale	(B) Sale for Resale (Escondido Mutual) <sup>1</sup>	(C) = (A) - (B) Retail Energy Sales @ Meter Level Net of Sale for Resale	Reference	Line No.
1	Jan-16	1,721,620,279	3,249	1,721,617,031	Workpaper No. 12; Page 12.2; Lines 30; 29	1
2	Feb-16	1,599,010,033	3,068	1,599,006,965	Workpaper No. 12; Page 12.2; Lines 30; 29	2
3	Mar-16	1,559,170,558	3,090	1,559,167,468	Workpaper No. 12; Page 12.2; Lines 30; 29	3
4	Apr-16	1,510,609,164	3,014	1,510,606,150	Workpaper No. 12; Page 12.2; Lines 30; 29	4
5	May-16	1,541,348,309	3,037	1,541,345,272	Workpaper No. 12; Page 12.2; Lines 30; 29	5
6	Jun-16	1,613,144,496	3,149	1,613,141,347	Workpaper No. 12; Page 12.2; Lines 30; 29	6
7	Jul-16	1,781,127,633	3,197	1,781,124,436	Workpaper No. 12; Page 12.2; Lines 30; 29	7
8	Aug-16	1,776,122,022	3,020	1,776,119,002	Workpaper No. 12; Page 12.2; Lines 30; 29	8
9	Sep-16	1,937,642,729	3,179	1,937,639,550	Workpaper No. 12; Page 12.2; Lines 30; 29	9
10	Oct-16	1,694,614,387	3,033	1,694,611,354	Workpaper No. 12; Page 12.2; Lines 30; 29	10
11	Nov-16	1,612,917,043	3,062	1,612,913,981	Workpaper No. 12; Page 12.2; Lines 30; 29	11
12	Dec-16	1,665,936,489	3,177	1,665,933,312	Workpaper No. 12; Page 12.2; Lines 30; 29	12
13						13
14						14
15	Total	20,013,263,143	37,274	20,013,225,869	Sum Lines 1 thru 12	15

Notes:  
<sup>1</sup> Escondido Mutual sales are excluded from the KWh total because they are classified as sales to wholesale customers not retail.  
Forecast sales are used to develop Statements BG and BH, Revenues at Proposed Rates and Revenues at Present Rates.

Statement BD

SAN DIEGO GAS & ELECTRIC COMPANY

2016 - TRBAA Rate Filing

January 2016 - December 2016 <sup>1</sup>

MWH SALES FORECAST @ Transmission Level

Line No.	Months	(a)		(b)	(c) = (a) x (b)		Reference	Line No.
		Retail Energy Sales @ Meter Level	Net of Sale for Resale		Loss Adjustment Factor ER16-445-000 <sup>2</sup>	Retail Energy Sales @ Transmission Level		
1	Jan-16	1,721,617			1,791,448		Worksheet No. 12; Page 12.2; Line 12	1
2	Feb-16	1,599,007			1,663,865		Worksheet No. 12; Page 12.2; Line 12	2
3	Mar-16	1,559,167			1,622,410		Worksheet No. 12; Page 12.2; Line 12	3
4	Apr-16	1,510,606			1,571,879		Worksheet No. 12; Page 12.2; Line 12	4
5	May-16	1,541,345			1,603,864		Worksheet No. 12; Page 12.2; Line 12	5
6	Jun-16	1,613,141			1,678,573		Worksheet No. 12; Page 12.2; Line 12	6
7	Jul-16	1,781,124			1,853,369		Worksheet No. 12; Page 12.2; Line 12	7
8	Aug-16	1,776,119			1,848,161		Worksheet No. 12; Page 12.2; Line 12	8
9	Sep-16	1,937,640			2,016,233		Worksheet No. 12; Page 12.2; Line 12	9
10	Oct-16	1,694,611			1,763,347		Worksheet No. 12; Page 12.2; Line 12	10
11	Nov-16	1,612,914			1,678,336		Worksheet No. 12; Page 12.2; Line 12	11
12	Dec-16	1,665,933			1,733,506		Worksheet No. 12; Page 12.2; Line 12	12
13								13
14	Total	20,013,226		1.04056	20,824,991		Sum Lines 1 thru 12	14
15								15
16	Total Retail MWH Sales @ Transmission Level				20,824,991		Line 14; Column B	16
1	This information is used for CAISO TAC purposes as shown in Statement BL - Wholesale. The sales forecast excludes Sale for Resale.							
2	See Cost Statement BB; Page 1; Line 22; Column B. FERC Docket No. ER16-445-000; TO4-Cycle 3; filed December 1, 2015.							
	The 1.04056 factor is used to convert the retail sales forecast at meter level up to the transmission level.							

# San Diego Gas & Electric Company

## Attachment C – (Cont'd)

### B. Statement BG - Revenue Data to Reflect Changed Rates

ER16-\_\_\_\_-000

Statement BG

SAN DIEGO GAS & ELECTRIC COMPANY

Comparison of Transmission Revenue Balancing Account (TRBAA) Revenues During Rate Effective Period @ Forecast Billing Determinants  
For Rate Effective Period Twelve Months Ending December 31, 2016

(\$000)

Line No.	Customer Classes	(a) (Statement BG) 2016	(b) (Statement BH) 2016	(c) = (a) - (b)	(d) = (c)/(b)	Reference	Line No.
		TRBAA Revenues @ Proposed Rates	TRBAA Revenues @ Present Rates	(\$ Change)	(%) Increase/(Decrease)		
1	Residential Customers	\$ (6,221,916)	\$ (4,608,826)	\$ (1,613,090)	35.00%	Statement BG; Pg.2 of 4; Col.M; Ln.1	1
2						Statement BH; Pg.1 of 3; Col.M; Ln.1	2
3	Small Commercial Customers	(1,559,803)	(1,155,410)	(404,393)	35.00%	Statement BG; Pg.2 of 4; Col.M; Ln.3	3
4						Statement BH; Pg.1 of 3; Col.M; Ln.3	4
5	Medium-Large Commercial Customers	(8,099,045)	(5,999,293)	(2,099,752)	35.00%	Statement BG; Pg.2 of 4; Col.M; Ln.5	5
6						Statement BH; Pg.1 of 3; Col.M; Ln.5	6
7	Agriculture (PA and TOU-PA)	(67,362)	(49,896)	(17,466)	35.00%	Statement BG; Pg.2 of 4; Col.M; Ln.7	7
8						Statement BH; Pg.1 of 3; Col.M; Ln.7	8
9	Agriculture (PA-T-1)	(189,014)	(140,010)	(49,004)	35.00%	Statement BG; Pg.2 of 4; Col.M; Ln.9	9
10						Statement BH; Pg.1 of 3; Col.M; Ln.9	10
11	Street Lighting Customers	(73,574)	(54,500)	(19,074)	35.00%	Statement BG; Pg.2 of 4; Col.M; Ln.11	11
12						Statement BH; Pg.1 of 3; Col.M; Ln.11	12
13	Grand Total	\$ (16,210,714)	\$ (12,007,935)	\$ (4,202,779)	35.00%	Sum Lines 1 through 11	13







Statement BG

SAN DIEGO GAS AND ELECTRIC COMPANY

Transmission Revenue Balancing Account (TRBA) Revenue Data To Reflect Changed Rates

Twelve Months Ending December 31, 2016

Line No.	Customer Classes	(H) Jul-16 Energy (kWh)	(I) Aug-16 Energy (kWh)	(J) Sep-16 Energy (kWh)	(K) Oct-16 Energy (kWh)	(L) Nov-16 Energy (kWh)	(M) Dec-16 Energy (kWh)	(N) Total Energy (kWh)	(O) Reference	Line No.
1	Residential Customers	666,573,134	682,833,044	758,415,886	633,833,086	595,422,269	678,355,670	7,681,377,391	Workpaper No. 12; Page 12.2; Line 23	1
2										2
3	Small Commercial	172,587,689	171,201,558	184,872,950	164,655,053	154,737,034	156,346,731	1,925,682,495	Workpaper No. 12; Page 12.2; Line 24	3
4										4
5	Medium-Large Commercial/Industrial	899,708,532	881,327,324	951,386,527	858,675,091	829,663,454	802,075,681	9,998,822,077	Workpaper No. 12; Page 12.2; Line 25	5
6										6
7	Agriculture (PA and TOU-PA)	9,298,378	9,160,827	9,770,347	8,157,777	6,724,985	5,406,853	83,162,105	Workpaper No. 12; Page 12.2; Line 26	7
8										8
9	Agriculture (PA-T-1)	25,220,539	24,236,237	25,455,368	21,861,203	18,802,814	15,921,635	233,349,370	Workpaper No. 12; Page 12.2; Line 27	9
10										10
11	Street Lighting	7,736,164	7,360,012	7,738,471	7,429,144	7,543,424	7,826,742	90,832,430	Workpaper No. 12; Page 12.2; Line 28	11
12										12
13	TOTAL	1,781,124,436	1,776,119,002	1,937,639,550	1,694,611,354	1,612,913,981	1,665,933,312	20,013,225,869	Sum Lines 1 - 11	13
14										14
15										15
16										16
17										17
18										18
19	Residential Customers	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	Statement BL; Page 1; Line 25	19
20										20
21	Small Commercial	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	Statement BL; Page 1; Line 25	21
22										22
23	Medium-Large Commercial	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	Statement BL; Page 1; Line 25	23
24										24
25	Agriculture (PA and TOU-PA)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	Statement BL; Page 1; Line 25	25
26										26
27	Agriculture (PA-T-1)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	Statement BL; Page 1; Line 25	27
28										28
29	Street Lighting	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	\$ (0.00081)	Statement BL; Page 1; Line 25	29
30										30
31										31
32		Revenues @	Revenues @	Revenues @	Revenues @	Revenues @	Revenues @	Revenues @		32
33		Changed Rates	Changed Rates	Changed Rates	Changed Rates	Changed Rates	Changed Rates	Changed Rates		33
34	Residential Customers	\$ (539,924)	\$ (553,095)	\$ (614,317)	\$ (513,405)	\$ (482,292)	\$ (549,468)	\$ (6,221,916)	Line 1 x Line 19	34
35										35
36	Small Commercial	(139,796)	(138,673)	(149,747)	(133,371)	(125,353)	(126,641)	(1,559,803)	Line 3 x Line 21	36
37										37
38	Medium-Large Commercial	(728,764)	(713,875)	(770,623)	(695,527)	(672,027)	(649,681)	(8,099,045)	Line 5 x Line 23	38
39										39
40	Agriculture (PA and TOU-PA)	(7,532)	(7,420)	(7,914)	(6,608)	(5,447)	(4,380)	(67,362)	Line 5 x Line 25	40
41										41
42	Agriculture (PA-T-1)	(20,429)	(19,631)	(20,619)	(17,708)	(15,230)	(12,897)	(189,014)	Line 5 x Line 27	42
43										43
44	Street Lighting	(6,266)	(5,962)	(6,268)	(6,018)	(6,110)	(6,340)	(73,574)	Line 7 x Line 29	44
45										45
46	TOTAL	\$ (1,442,711)	\$ (1,438,656)	\$ (1,569,488)	\$ (1,372,637)	\$ (1,306,459)	\$ (1,349,407)	\$ (16,210,714)	Sum Lines 34 through 44	46

# San Diego Gas & Electric Company

## Attachment – C (Cont'd)

### C. Statement BH - Revenue Data to Reflect Present Rates

ER16-\_\_\_\_\_-000

Statement BH

SAN DIEGO GAS AND ELECTRIC COMPANY

Transmission Revenue Balancing Account (TRBA) Revenue Data To Reflect Present Rates  
Rate Effective Period - Twelve Months January 1, 2016 through December 31, 2016

Line No.	(A) Jan-16	(B) Feb-16	(C) Mar-16	(D) Apr-16	(E) May-16	(F) Jun-16	(G) Jul-16	(H) Aug-16	(I) Sep-16	(J) Oct-16	(K) Nov-16	(L) Dec-16	(M) Total
1	Residential Customers <sup>1</sup>	\$ (436,452)	\$ (382,075)	\$ (365,960)	\$ (335,062)	\$ (348,471)	\$ (399,944)	\$ (409,700)	\$ (455,050)	\$ (380,300)	\$ (357,253)	\$ (407,013)	\$ (4,608,826)
2													
3	Small Commercial <sup>2</sup>	(96,199)	(92,219)	(91,047)	(88,328)	(94,685)	(103,553)	(102,721)	(110,924)	(98,793)	(92,854)	(93,808)	(1,155,410)
4													
5	Medium-Large Commercial <sup>3</sup>	(484,178)	(469,225)	(462,603)	(465,425)	(501,504)	(539,825)	(528,796)	(570,832)	(515,205)	(497,798)	(481,245)	(5,999,293)
6													
7	Agriculture (PA and TOU-PA) <sup>4</sup>	(2,748)	(2,781)	(2,806)	(3,380)	(4,974)	(5,579)	(5,496)	(5,862)	(4,895)	(4,035)	(3,244)	(49,896)
8													
9	Agriculture (PA-T-1) <sup>5</sup>	(8,654)	(8,603)	(8,587)	(9,780)	(13,672)	(15,132)	(14,542)	(15,273)	(13,117)	(11,282)	(9,553)	(140,010)
10													
11	Street Lighting <sup>6</sup>	(4,739)	(4,501)	(4,497)	(4,389)	(4,580)	(4,642)	(4,416)	(4,643)	(4,457)	(4,526)	(4,696)	(54,500)
12													
13													
14	TOTAL	\$ (1,032,970)	\$ (959,404)	\$ (935,500)	\$ (906,364)	\$ (967,886)	\$ (1,068,675)	\$ (1,065,671)	\$ (1,162,584)	\$ (1,016,767)	\$ (967,748)	\$ (999,559)	\$ (12,007,935)

<sup>1</sup> See pages 2 and 3 for detailed calculation of Residential Customer revenues that reflect changed rates.

<sup>2</sup> See pages 2 and 3 for detailed calculation of Small Commercial Customer revenues that reflect changed rates.

<sup>3</sup> See pages 2 and 3 for detailed calculation of Medium and Large Commercial Customer revenues that reflect changed rates.

<sup>4</sup> See pages 2 and 3 for detailed calculation of Agriculture (PA and TOU-PA) Customer revenues that reflect changed rates.

<sup>5</sup> See pages 2 and 3 for detailed calculation of Agriculture (PA-T-1) Customer revenues that reflect changed rates.

<sup>6</sup> See pages 2 and 3 for detailed calculation of Street Lighting Customer revenues that reflect changed rates.

Statement BH								
SAN DIEGO GAS AND ELECTRIC COMPANY								
Transmission Revenue Balancing Account (TRBA) Revenue Data To Reflect Present Rates								
Twelve Months Ending January 1, 2016 through December 31 2016								
Line No.	(A) Jan-16 Energy (kWh)	(B) Feb-16 Energy (kWh)	(C) Mar-16 Energy (kWh)	(D) Apr-16 Energy (kWh)	(E) May-16 Energy (kWh)	(F) Jun-16 Energy (kWh)	Reference	Line No.
1	727,419,849	636,792,165	609,933,415	558,437,152	552,577,446	580,784,274	Workpaper No. 12; Page 12.2; Line 23	1
2								2
3	160,331,520	153,697,926	151,745,769	147,213,246	150,465,496	157,807,522	Workpaper No. 12; Page 12.2; Line 24	3
4								4
5	806,963,765	782,041,552	771,005,238	775,707,508	804,427,595	835,839,811	Workpaper No. 12; Page 12.2; Line 25	5
6	4,580,174	4,634,909	4,677,383	5,633,199	6,826,506	8,290,769	Workpaper No. 12; Page 12.2; Line 26	6
7								7
8								8
9								9
10	14,423,292	14,338,852	14,310,957	16,299,756	19,692,252	22,786,463	Workpaper No. 12; Page 12.2; Line 27	10
11	7,898,431	7,501,561	7,494,706	7,315,289	7,355,977	7,632,508	Workpaper No. 12; Page 12.2; Line 28	11
12								12
13	1,721,617,031	1,599,006,965	1,559,167,468	1,510,606,150	1,541,345,272	1,613,141,347	Sum Lines 1 thru 11	13
14								14
15								15
16								16
17	\$(kWh)	\$(kWh)	\$(kWh)	\$(kWh)	\$(kWh)	\$(kWh)		17
18	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)		18
19	Residential Customers						Statement BL-Retail; Page 1; Line 23	19
20							FERC Docket No. ER15-679-000	20
21	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	Statement BL-Retail; Page 1; Line 23	21
22							FERC Docket No. ER15-679-000	22
23	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	Statement BL-Retail; Page 1; Line 23	23
24							FERC Docket No. ER15-679-000	24
25	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	Statement BL-Retail; Page 1; Line 23	25
26							FERC Docket No. ER15-679-000	26
27	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	Statement BL-Retail; Page 1; Line 23	27
28							FERC Docket No. ER15-679-000	28
29	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	Statement BL-Retail; Page 1; Line 23	29
30							FERC Docket No. ER15-679-000	30
31								31
32	TRBAA @ Present Rates	TRBAA @ Present Rates	TRBAA @ Present Rates	TRBAA @ Present Rates	TRBAA @ Present Rates	TRBAA @ Present Rates		32
33	\$ (436,452)	\$ (382,075)	\$ (365,960)	\$ (335,062)	\$ (331,546)	\$ (348,471)	Line 1 x Line 19	33
34								34
35	(96,199)	(92,219)	(91,047)	(88,328)	(90,279)	(94,685)	Line 3 x Line 21	35
36								36
37	(484,178)	(469,225)	(462,603)	(465,425)	(482,657)	(501,504)	Line 5 x Line 23	37
38								38
39	(2,748)	(2,781)	(2,806)	(3,380)	(4,096)	(4,974)	Line 7 x Line 25	39
40								40
41	(8,654)	(8,603)	(8,587)	(9,780)	(11,815)	(13,672)	Line 9 x Line 27	41
42								42
43	(4,739)	(4,501)	(4,497)	(4,389)	(4,414)	(4,580)	Line 11 x Line 29	43
44								44
45								45
46	\$ (1,032,970)	\$ (959,404)	\$ (935,500)	\$ (906,364)	\$ (924,807)	\$ (967,886)	Sum Lines 34 through 44	46

Statement BH  
SAN DIEGO GAS AND ELECTRIC COMPANY

Transmission Revenue Balancing Account (TRBA) Revenue Data To Reflect Present Rates  
Twelve Months Ending January 1, 2016 through December 31, 2016

No.	Customer Classes	(G) Jul-16 Energy (kWh)	(H) Aug-16 Energy (kWh)	(I) Sep-16 Energy (kWh)	(J) Oct-16 Energy (kWh)	(K) Nov-16 Energy (kWh)	(L) Dec-16 Energy (kWh)	(M) Total Energy (kWh)	(M) Reference	No.
1	Residential Customers	666,573,134	682,833,044	758,415,886	633,833,086	595,422,269	678,355,670	7,681,377,391	Workpaper No. 12; Page 12.2; Line 23	1
2										2
3	Small Commercial	172,587,689	171,201,558	184,872,950	164,655,053	154,757,034	156,346,731	1,925,682,495	Workpaper No. 12; Page 12.2; Line 24	3
4										4
5	Medium-Large Commercial	899,708,532	881,327,324	951,386,527	858,675,091	829,663,454	802,075,681	9,998,822,077	Workpaper No. 12; Page 12.2; Line 25	5
6										6
7	Agriculture (PA and TOU-PA)	9,298,378	9,160,827	9,770,347	8,157,777	6,724,985	5,406,853	83,162,105	Workpaper No. 12; Page 12.2; Line 26	7
8										8
9	Agriculture (PA-T-1)	25,220,539	24,236,237	25,455,368	21,861,203	18,802,814	15,921,635	233,349,370	Workpaper No. 12; Page 12.2; Line 27	9
10										10
11	Street Lighting	7,736,164	7,360,012	7,738,471	7,429,144	7,543,424	7,826,742	90,832,430	Workpaper No. 12; Page 12.2; Line 28	11
12										12
13	TOTAL	1,781,124,436	1,776,119,002	1,937,639,550	1,694,611,354	1,612,913,981	1,665,933,312	20,013,225,869	Sum Lines 1 thru 11	13
14										14
15										15
16										16
17										17
18										18
19	Residential Customers	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	Statement BL; Page 1; Line 23	19
20									FERC Docket No. ER15-679-000	20
21	Small Commercial	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	Statement BL; Page 1; Line 23	21
22									FERC Docket No. ER15-679-000	22
23	Medium-Large Commercial	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	Statement BL; Page 1; Line 23	23
24									FERC Docket No. ER15-679-000	24
25	Agriculture (PA and TOU-PA)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	Statement BL; Page 1; Line 23	25
26									FERC Docket No. ER15-679-000	26
27	Agriculture (PA-T-1)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	Statement BL; Page 1; Line 23	27
28									FERC Docket No. ER15-679-000	28
29	Street Lighting	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	Statement BL; Page 1; Line 23	29
30									FERC Docket No. ER15-679-000	30
31										31
32		TRBAA @ Present Rates	TRBAA @ Present Rates	TRBAA @ Present Rates	TRBAA @ Present Rates	TRBAA @ Present Rates	TRBAA @ Present Rates	TRBAA @ Present Rates		32
33		\$ (399,944)	\$ (409,700)	\$ (455,050)	\$ (380,300)	\$ (357,253)	\$ (407,013)	\$ (4,608,826)	Line 1 x Line 19	33
34	Residential Customers									34
35										35
36	Small Commercial	(103,553)	(102,721)	(110,924)	(98,793)	(92,854)	(93,808)	(1,155,410)	Line 3 x Line 21	36
37										37
38	Medium-Large Commercial	(539,825)	(528,796)	(570,832)	(515,205)	(497,798)	(481,245)	(5,999,293)	Line 5 x Line 23	38
39										39
40	Agriculture (PA and TOU-PA)	(5,579)	(5,496)	(5,862)	(4,895)	(4,035)	(3,244)	(49,896)	Line 7 x Line 25	40
41										41
42	Agriculture (PA-T-1)	(15,132)	(14,542)	(15,273)	(13,117)	(11,282)	(9,533)	(140,010)	Line 9 x Line 27	42
43										43
44	Street Lighting	(4,642)	(4,416)	(4,643)	(4,457)	(4,526)	(4,696)	(54,500)	Line 11 x Line 29	44
45										45
46	TOTAL	\$ (1,068,675)	\$ (1,065,671)	\$ (1,162,584)	\$ (1,016,767)	\$ (967,748)	\$ (999,559)	\$ (12,007,935)	Sum Lines 34 through 44	46

# San Diego Gas & Electric Company

## Attachment – C (Cont'd)

### D. Statement BK1 - Derivation of Retail Transmission Revenue Balancing Account Adjustment (TRBAA)

ER16-\_\_\_\_\_-000

Statement BK-1		San Diego Gas & Electric Company	
		2016 - TRBAA Rate Filing	
		Total Retail TRBAA Forecast - Including Franchise Fees & Uncollectible Expense	
Line No.	Components	Total Retail - TRBAA	Reference
1	Beginning TRBAA Balance @ 9/30/2015	\$ (2,464,403)	Work paper No. 2; Page 2.4; Line 31
2			
3	<u>Transmission Revenue Credits Forecast:</u>		
4			
5	Wheeling Revenues	(7,381,918)	Work paper No. 5; Page 5.2; Line 23
6			
7	Settlements, Metering and Client Relations	12,000	Work paper No. 6; Page 6.2; Line 24
8			
9	Existing Transmission Contract (ETC) Cost Differentials	(534,545)	Work paper No. 7; Page 7.2; Line 16
10			
11	Other PTO Related Revenue (Credits)/Charges	(5,404,761)	Work paper No. 9; Page 9.2; Line 31
12			
13	Total Transmission Revenue Credits Forecast	\$ (13,309,224)	Sum {Line 5 thru Line 11}
14			
15	Total TRBAA Before Franchise Fees and Uncollectibles	\$ (15,773,627)	Line 1 + Line 13
16			
17	Uncollectibles @ 0.1740 %	(27,446)	Line 15 x 0.1740%
18			
19	Franchise Fees Expense @ 1.0310%	(162,626)	Line 15 x 1.0310%
20			
21	Total Retail TRBAA	\$ (15,963,699)	Sum {Line 15 thru Line 19}

# San Diego Gas & Electric Company

## Attachment – C (Cont'd)

### E. Statement BK2 - Derivation of ISO- Wholesale Transmission Revenue Balancing Account Adjustment (TRBAA)

ER16-\_\_\_\_\_-000



		Statement BK-2			
		San Diego Gas & Electric Company			
		2016 - TRBAA Rate Filing			
		Wholesale Customers - HVTRR & LVTRR Calculation			
Line No.	Components	(1) Total HIGH VOLTAGE Transmission Revenue Requirements	(2) Total LOW VOLTAGE Transmission Revenue Requirements	(3) = (1) + (2) Total Transmission Revenue Requirements	Reference
1	Wholesale Base Transmission Revenue Requirement <sup>1</sup>	\$ 492,206,000	\$ 303,290,000	\$ 795,496,000	See Note 1
2					
3	Beginning TRBAA Balance @ 9/30/2015	(2,432,671)	(31,732)	(2,464,403)	Work paper No. 1; Page 1.1; Line 12
4					
5	<u>Transmission Revenue Credits Forecast:</u>				
6					
7	Wheeling Revenues	(7,381,918)	-	(7,381,918)	Work paper No. 5; Page 5.2; Line 23
8					
9	Settlements, Metering and Client Relations	7,363	4,637	12,000	Work paper No. 6; Page 6.2; Line 24
10					
11	ETC Cost Differentials	(327,980)	(206,565)	(534,545)	Work paper No. 7; Page 7.2; Line 16
12					
13	Other PTO Related Revenue (Credits)/Charges	(5,435,318)	30,557	(5,404,761)	Work paper No. 9; Page 9.2; Line 31
14					
15	Total Transmission Revenue Credits Forecast	\$ (13,137,853)	\$ (171,371)	\$ (13,309,224)	Sum {Line 7 through Line 13}
16					
17	Total Wholesale TRBAA Before Franchise Fees	\$ (15,570,524)	\$ (203,103)	(15,773,627)	Line 3 + Line 15
18					
19	Franchise Fees Expense @ 1.0310%	(160,532)	(2,094)	(162,626)	Line 17 x 1.0310%
20					
21	Total Wholesale TRBAA with Franchise Fees	\$ (15,731,056)	\$ (205,197)	\$ (15,936,253)	Line 17 + Line 19
22					
23	Transmission Standby Revenues <sup>2</sup>	(6,865,590)	(4,230,474)	(11,096,064)	Work paper No. 11; Page 11.1; Line 13
24					
25	Wholesale Transmission Revenue Requirement	\$ 469,609,354	\$ 298,854,329	\$ 768,463,683	Line 1 + Line 21 + Line 23
<b>NOTES:</b>					
<sup>1</sup>	The Wholesale Base TRR information comes from SDG&E's Informational Filing in TO4-Cycle 3, which was filed with the FERC on December 1, 2015, in Docket No. ER16-445-000. See Statement BK2.				
<sup>2</sup>	The Standby Revenue amount of \$11,096,064 comes from Cost Statement BG; Page 1; Column A; Line 24, in FERC Docket No. ER16-445-000; Informational Filing, filed with the FERC on December 1, 2015.				

# San Diego Gas & Electric Company

## Attachment – C (Cont'd)

### F. Statement – BL Retail TRBAA Rate Calculation

ER16-\_\_\_\_\_-000

Statement BL				
San Diego Gas & Electric Company				
2016 - TRBAA Rate Filing				
Retail TRBAA Rate Calculation				
Line No.	Components	Total	Reference	Line No.
1	Beginning TRBAA Balance @ 9/30/2015	\$ (2,464,403)	Work paper No. 2; Page 2.4; Line 31	1
2				2
3	<u>Transmission Revenue Credits Forecast:</u>			3
4				4
5	Wheeling Revenues	(7,381,918)	Work paper No. 5; Page 5.2; Line 23	5
6				6
7	Settlements, Metering and Client Relations	12,000	Work paper No. 6; Page 6.2; Line 24	7
8				8
9	ETC Cost Differentials	(534,545)	Work paper No. 7; Page 7.2; Line 16	9
10				10
11	Other PTO Related Revenue (Credits)/Charges	(5,404,761)	Work paper No. 9; Page 9.2; Line 31	11
12				12
13	Total Transmission Revenue Credits Forecast	(13,309,224)	Sum {Line 5 through Line 11}	13
14				14
15	Total TRBAA Before Franchise Fees and Uncollectibles	\$ (15,773,627)	Line 1 + Line 13	15
16				16
17	Uncollectibles @ 0.1740 %	(27,446)	Line 15 x 0.1740%	17
18				18
19	Franchise Fees Expense @ 1.0310%	(162,626)	Line 15 x 1.0310%	19
20				20
21	Total Retail TRBAA	\$ (15,963,699)	Sum Lines 15; 17; and 19	21
22				22
23	12 Months kWh Ending September 30, 2015	19,621,911,251	Statement BD; Pg. 1 of 3; Col. C; Ln. 15	23
24				24
25	Retail TRBAA Rate (\$/kWh)	\$ (0.00081)	Line 21 / Line 23	25

# San Diego Gas & Electric Company

## Attachment – C (Cont'd)

### G. Statement – BL Wholesale TRBAA Rate Calculation

ER16-\_\_\_\_\_-000



# San Diego Gas & Electric Company

Attachment – C (Cont'd)

H. TRBAA Work Papers

ER16-\_\_\_\_\_-000

Work Paper – 1

Allocation of TRBAA Balance @ 9/30/2015  
Between HV and LV Facilities  
Based on Transmission Revenue Credits  
Forecast

San Diego Gas & Electric Company

2016 - TRBAA Rate Filing

Allocation Of Beginning TRBAA Balance Based on Forecast Balances

Line No.	Components	(a)		(b)	(c)	(d)		Reference	Line No.
		Beginning TRBAA Balance	TRBAA Balance			High Voltage TRBAA	Low Voltage TRBAA		
1	TRBAA Balance @ 9/30/2015	\$	(2,464,403)					Work paper No. 2; Page 2.4; Line 31	1
2									2
3	Forecast - Wheeling Revenues			(7,381,918)	-	(7,381,918)		Work paper No. 5; Page 5.2; Line 23	3
4	Forecast - Settlements, Metering and Client Relations			7,363	4,637	12,000		Work paper No. 6; Page 6.2; Line 24	4
5	Forecast - ETC Cost Differentials			(327,980)	(206,565)	(534,545)		Work paper No. 7; Page 7.2; Line 16	5
6	Forecast - Other PTO Related Revenue (Credits)/Charges			(5,435,318)	30,557	(5,404,761)		Work paper No. 9; Page 9.2; Line 31	6
7									7
8	Forecast 2016 - Net Transmission Revenue Credits			\$ (13,137,853)	\$ (171,371)	\$ (13,309,224)		Sum Lines 3 through 6	8
9									9
10	Allocation Factors Based on Revenue Credit Forecast			98.71%	1.29%	100.00%		Ratios Per Line 8	10
11									11
12	Allocation of Beginning TRBAA Balance <sup>1</sup>			\$ (2,432,671)	\$ (31,732)	\$ (2,464,403)		Column (a) Line 1 x Line 10	12

<sup>1</sup> The beginning TRBAA balance on line 1, Column (a), is allocated between High Voltage and Low Voltage, using the ratios that were developed on line 10, using the the Transmission Revenue Credits forecasts shown on line 8.



Work Paper – 2  
Monthly TRBAA Detailed Activities  
& Related Footnotes

**San Diego Gas Electric Co.**  
**TRBAA Monthly Activities Applicable to BK1 and BK2**  
**For the 12-Month Period Ending September 30, 2015**  
**2016 Annual TRBAA Rate Filing**

Line No.	Description	October 2014	November 2014	December 2014	January 2015
1	Beginning Balance (Overcollection)/Undercollection	\$ (3,660,644)	\$ (2,773,229)	\$ (2,532,031)	\$ (2,318,105)
2					
3	TRBAA Refund				
4	Kwh (Excluding Sales for Resale).	1,818,275,382	1,583,002,482	1,585,788,042	1,665,910,282
5	TRBAA Rate	\$ (0.00047)	\$ (0.00047)	\$ (0.00047)	\$ (0.00054)
6	Total TRBAA Refund Including Franchise Fees & Uncollectibles	\$ (854,589)	\$ (744,011)	\$ (745,320)	\$ (899,592)
7	Franchise Fees & Uncollectible Expense Adjustment <sup>1</sup>	(10,175)	(8,859)	(8,874)	(10,711)
8	TRBAA Refunds/Collections Excluding Uncollectibles	\$ (844,414)	\$ (735,152)	\$ (736,446)	\$ (888,881)
9					
10	PTO Related - ISO Charge Types:				
11	CT 384 - HV Wheeling Revenues Due TO	(576,053)	(619,460)	(693,884)	(839,511)
12	CT 4575 - Settlements, Metering, Client Relations <sup>2</sup>	1,000	1,000	1,000	1,000
13	ETC Cost Differentials <sup>3</sup>	489,630	(5,224)	53,115	(69,441)
14	Other PTO Related Revenue (Credits)/Charges <sup>4</sup>	137,419	136,858	123,986	36,702
15	Sub-Total Monthly Related Activity	\$ 51,996	\$ (486,826)	\$ (515,784)	\$ (871,249)
16					
17	Other Adjustments	-	-	-	-
18	Sub-Total Adjustment	\$ -	\$ -	\$ -	\$ -
19	Total Monthly PTO Charge Types	\$ 51,996	\$ (486,826)	\$ (515,784)	\$ (871,249)
20					
21	Net Monthly Activity (Nets Refunds, Revenues, & Expenses)	\$ 896,410	\$ 248,326	\$ 220,662	\$ 17,632
22					
23	Interest Expense Calculations:				
24	Beginning Balance for Interest Calculation	\$ (3,660,644)	\$ (3,660,644)	\$ (3,660,644)	\$ (2,318,105)
25	Monthly Activity Included in Interest Calculation Basis	448,205	1,020,573	1,255,066	8,816
26	Basis for Interest Expense Calculation	(3,212,439)	(2,640,071)	(2,405,578)	(2,309,289)
27	Monthly Interest Rate	0.28000%	0.27000%	0.28000%	0.28000%
28	Interest Expense	\$ (8,995)	\$ (7,128)	\$ (6,736)	\$ (6,466)
29	Other Adjustments				
30					
31	Ending Balance (Overcollection)/Undercollection	\$ (2,773,229)	\$ (2,532,031)	\$ (2,318,105)	\$ (2,306,939)
32					
33					
34					
35	<b>Franchise Fees &amp; Uncollectible Adjustment:</b>				
36	Franchise Fees Expense Rate	1.0310%	1.0310%	1.0310%	1.0310%
37	Uncollectible Expense Adjustment Rate	0.1740%	0.1740%	0.1740%	0.1740%
38	Combined FF&U Adjustment Rate	1.2050%	1.2050%	1.2050%	1.2050%
39	Total (Refunds)/Collections Including Franchise Fees & Uncollectibles	\$ (854,589)	\$ (744,011)	\$ (745,320)	\$ (899,592)
40	Uncollectibles Included on Line 7 Above:				
41	Total Refunds/Collections Including Franchise & Uncollectible Expense	\$ (854,589)	\$ (744,011)	\$ (745,320)	\$ (899,592)
42	Adjustment Factor to Convert Line 38 Above Before FF&U	1.012050	1.012050	1.012050	1.012050
43	Total Refunds/Collections Before FF&U	\$ (844,414)	\$ (735,152)	\$ (736,446)	\$ (888,881)
44	Combined FF&U Adjustment Rate	1.2050%	1.2050%	1.2050%	1.2050%
45	Franchise Fees & Uncollectible Expense Adjustment <sup>1</sup>	\$ (10,175)	\$ (8,859)	\$ (8,874)	\$ (10,711)
46	Difference	\$ -	\$ -	\$ -	\$ -

**San Diego Gas Electric Co.**  
**TRBAA Monthly Activities Applicable to BK1 and BK2**  
**For the 12-Month Period Ending September 30, 2015**  
**2016 Annual TRBAA Rate Filing**

Line No.	Description	February 2015	March 2015	April 2015	May 2015
1	Beginning Balance (Overcollection)/Undercollection	\$ (2,306,939)	\$ (2,410,942)	\$ (1,997,905)	\$ (1,802,309)
2					
3	TRBAA Refund				
4	Kwh (Excluding Sales for Resale).	1,547,755,534	1,486,100,698	1,529,437,074	1,501,100,754
5	TRBAA Rate	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)
6	Total TRBAA Refund Including Franchise Fees & Uncollectibles	\$ (928,653)	\$ (891,660)	\$ (917,662)	\$ (900,660)
7	Franchise Fees & Uncollectible Expense Adjustment <sup>1</sup>	(11,057)	(10,617)	(10,926)	(10,724)
8	TRBAA Refunds/Collections Excluding Uncollectibles	\$ (917,596)	\$ (881,043)	\$ (906,736)	\$ (889,936)
9					
10	PTO Related - ISO Charge Types:				
11	CT 384 - HV Wheeling Revenues Due TO	(461,359)	(401,630)	(646,690)	(536,281)
12	CT 4575 - Settlements, Metering, Client Relations <sup>2</sup>	1,000	1,000	1,000	1,000
13	ETC Cost Differentials <sup>3</sup>	(500,123)	5,859	(1,044)	34,450
14	Other PTO Related Revenue (Credits)/Charges <sup>4</sup>	(55,243)	(67,106)	(59,283)	(153,370)
15	Sub-Total Monthly Related Activity	\$ (1,015,725)	\$ (461,877)	\$ (706,017)	\$ (654,202)
16					
17	Other Adjustments	-	-	-	-
18	Sub-Total Adjustment	\$ -	\$ -	\$ -	\$ -
19	Total Monthly PTO Charge Types	\$ (1,015,725)	\$ (461,877)	\$ (706,017)	\$ (654,202)
20					
21	Net Monthly Activity (Nets Refunds, Revenues, & Expenses)	\$ (98,129)	\$ 419,166	\$ 200,719	\$ 235,734
22					
23	Interest Expense Calculations:				
24	Beginning Balance for Interest Calculation	\$ (2,318,105)	\$ (2,318,105)	\$ (1,997,905)	\$ (1,997,905)
25	Monthly Activity Included in Interest Calculation Basis	(31,433)	129,086	100,360	318,586
26	Basis for Interest Expense Calculation	(2,349,538)	(2,189,019)	(1,897,545)	(1,679,319)
27	Monthly Interest Rate	0.25000%	0.28000%	0.27000%	0.28000%
28	Interest Expense	\$ (5,874)	\$ (6,129)	\$ (5,123)	\$ (4,702)
29	Other Adjustments				
30					
31	Ending Balance (Overcollection)/Undercollection	\$ (2,410,942)	\$ (1,997,905)	\$ (1,802,309)	\$ (1,571,276)
32					
33					
34					
35	<b>Franchise Fees &amp; Uncollectible Adjustment:</b>				
36	Franchise Fees Expense Rate	1.0310%	1.0310%	1.0310%	1.0310%
37	Uncollectible Expense Adjustment Rate	0.1740%	0.1740%	0.1740%	0.1740%
38	Combined FF&U Adjustment Rate	1.2050%	1.2050%	1.2050%	1.2050%
39	Total (Refunds)/Collections Including Franchise Fees & Uncollectibles	\$ (928,653)	\$ (891,660)	\$ (917,662)	\$ (900,660)
40	Uncollectibles Included on Line 7 Above:				
41	Total Refunds/Collections Including Franchise & Uncollectible Expense	\$ (928,653)	\$ (891,660)	\$ (917,662)	\$ (900,660)
42	Adjustment Factor to Convert Line 38 Above Before FF&U	1.012050	1.012050	1.012050	1.012050
43	Total Refunds/Collections Before FF&U	\$ (917,596)	\$ (881,043)	\$ (906,736)	\$ (889,936)
44	Combined FF&U Adjustment Rate	1.2050%	1.2050%	1.2050%	1.2050%
45	Franchise Fees & Uncollectible Expense Adjustment <sup>1</sup>	\$ (11,057)	\$ (10,617)	\$ (10,926)	\$ (10,724)
46	Difference	\$ -	\$ -	\$ -	\$ -

**San Diego Gas Electric Co.**  
**TRBAA Monthly Activities Applicable to BK1 and BK2**  
**For the 12-Month Period Ending September 30, 2015**  
**2016 Annual TRBAA Rate Filing**

Line No.	Description	June 2015	July 2015	August 2015	September 2015
1	Beginning Balance (Overcollection)/Undercollection	\$ (1,571,276)	\$ (1,454,979)	\$ (1,278,786)	\$ (994,644)
2					
3	TRBAA Refund				
4	Kwh (Excluding Sales for Resale).	1,443,047,056	1,746,688,223	1,779,921,852	1,934,883,872
5	TRBAA Rate	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)	\$ (0.00060)
6	Total TRBAA Refund Including Franchise Fees & Uncollectibles	\$ (865,828)	\$ (1,048,013)	\$ (1,067,953)	\$ (1,160,930)
7	Franchise Fees & Uncollectible Expense Adjustment <sup>1</sup>	(10,309)	(12,478)	(12,716)	(13,823)
8	TRBAA Refunds/Collections Excluding Uncollectibles	\$ (855,519)	\$ (1,035,535)	\$ (1,055,237)	\$ (1,147,107)
9					
10	PTO Related - ISO Charge Types:				
11	CT 384 - HV Wheeling Revenues Due TO	(654,312)	(741,819)	(711,786)	(499,131)
12	CT 4575 - Settlements, Metering, Client Relations <sup>2</sup>	1,000	1,000	1,000	1,000
13	ETC Cost Differentials <sup>3</sup>	(65,893)	(109,112)	(58,644)	(308,117)
14	Other PTO Related Revenue (Credits)/Charges <sup>4</sup>	(15,964)	(5,589)	1,503	(1,805,972)
15	Sub-Total Monthly Related Activity	\$ (735,169)	\$ (855,520)	\$ (767,927)	\$ (2,612,221)
16					
17	Other Adjustments	-	-	-	-
18	Sub-Total Adjustment	\$ -	\$ -	\$ -	\$ -
19	Total Monthly PTO Charge Types	\$ (735,169)	\$ (855,520)	\$ (767,927)	\$ (2,612,221)
20					
21	Net Monthly Activity (Nets Refunds, Revenues, & Expenses)	\$ 120,350	\$ 180,015	\$ 287,310	\$ (1,465,114)
22					
23	Interest Expense Calculations:				
24	Beginning Balance for Interest Calculation	\$ (1,997,905)	\$ (1,454,979)	\$ (1,454,979)	\$ (1,454,979)
25	Monthly Activity Included in Interest Calculation Basis	496,628	90,007	323,670	(265,232)
26	Basis for Interest Expense Calculation	(1,501,277)	(1,364,972)	(1,131,309)	(1,720,211)
27	Monthly Interest Rate	0.27000%	0.28000%	0.28000%	0.27000%
28	Interest Expense	\$ (4,053)	\$ (3,822)	\$ (3,168)	\$ (4,645)
29	Other Adjustments				
30					
31	Ending Balance (Overcollection)/Undercollection	\$ (1,454,979)	\$ (1,278,786)	\$ (994,644)	\$ (2,464,403)
32					
33					
34					
35	<b>Franchise Fees &amp; Uncollectible Adjustment:</b>				
36	Franchise Fees Expense Rate	1.0310%	1.0310%	1.0310%	1.0310%
37	Uncollectible Expense Adjustment Rate	0.1740%	0.1740%	0.1740%	0.1740%
38	Combined FF&U Adjustment Rate	1.2050%	1.2050%	1.2050%	1.2050%
39	Total (Refunds)/Collections Including Franchise Fees & Uncollectibles	\$ (865,828)	\$ (1,048,013)	\$ (1,067,953)	\$ (1,160,930)
40	Uncollectibles Included on Line 7 Above:				
41	Total Refunds/Collections Including Franchise & Uncollectible Expense	\$ (865,828)	\$ (1,048,013)	\$ (1,067,953)	\$ (1,160,930)
42	Adjustment Factor to Convert Line 38 Above Before FF&U	1.012050	1.012050	1.012050	1.012050
43	Total Refunds/Collections Before FF&U	\$ (855,519)	\$ (1,035,535)	\$ (1,055,237)	\$ (1,147,107)
44	Combined FF&U Adjustment Rate	1.2050%	1.2050%	1.2050%	1.2050%
45	Franchise Fees & Uncollectible Expense Adjustment <sup>1</sup>	\$ (10,309)	\$ (12,478)	\$ (12,716)	\$ (13,823)
46	Difference	\$ -	\$ -	\$ -	\$ -

**San Diego Gas Electric Co.**  
**TRBAA Monthly Activities Applicable to BK1 and BK2**  
**For the 12-Month Period Ending September 30, 2015**  
**2016 Annual TRBAA Rate Filing**

Line No.	Description	Total	Reference	Line No.
1	Beginning Balance (Overcollection)/Undercollection	\$ (3,660,644)	Previous Month's Balance	1
2				2
3	TRBAA Refund			3
4	Kwh (Excluding Sales for Resale).	19,621,911,251	Work Paper No. 12; Page 12.1; Line 32	4
5	TRBAA Rate		TRBAA Rates - ER15-679-000	5
6	Total TRBAA Refund Including Franchise Fees & Uncollectibles	\$ (11,024,871)	Line 4 x Line 5	6
7	Franchise Fees & Uncollectible Expense Adjustment <sup>1</sup>	(131,269)	See Line 45 Below	7
8	TRBAA Refunds/Collections Excluding Uncollectibles	\$ (10,893,602)	Line 6 / Line 42	8
9				9
10	PTO Related - ISO Charge Types:			10
11	CT 384 - HV Wheeling Revenues Due TO	(7,381,918)	Work Paper No. 3; Page 3.1-3.2; Line 2	11
12	CT 4575 - Settlements, Metering, Client Relations <sup>2</sup>	12,000	Work Paper No. 3; Page 3.1-3.2; Line 5	12
13	ETC Cost Differentials <sup>3</sup>	(534,545)	Work Paper No. 3; Page 3.1-3.2; Line 8	13
14	Other PTO Related Revenue (Credits)/Charges <sup>4</sup>	(1,726,059)	Work Paper No. 3; Page 3.1-3.2; Line 11	14
15	Sub-Total Monthly Related Activity	\$ (9,630,522)	Sum Lines 11 thru 14	15
16				16
17	Other Adjustments	-	FF&U Rate Adjustment	17
18	Sub-Total Adjustment	\$ -	Sum Line 17	18
19	Total Monthly PTO Charge Types	\$ (9,630,522)	Sum Lines 15; 18	19
20				20
21	Net Monthly Activity (Nets Refunds, Revenues, & Expenses)	\$ 1,263,080	Minus Line 8 + (Line 19)	21
22				22
23	Interest Expense Calculations:			23
24	Beginning Balance for Interest Calculation		Beginning Quarterly Balances	24
25	Monthly Activity Included in Interest Calculation Basis		Interest Calculation Basis	25
26	Basis for Interest Expense Calculation		Line 24 + Line 25	26
27	Monthly Interest Rate		FERC Monthly Rates	27
28	Interest Expense	\$ (66,841)	Line 26 x Line 27	28
29	Other Adjustments	-		29
30				30
31	Ending Balance (Overcollection)/Undercollection	\$ (2,464,403)	Line 1 + Line 21 + Line 28 + Line 29	31
32				32
33				33
34				34
35	<b>Franchise Fees &amp; Uncollectible Adjustment:</b>			35
36	Franchise Fees Expense Rate		Franchise Fees Expense Rate	36
37	Uncollectible Expense Adjustment Rate		Uncollectible Expense Adjustment Rate	37
38	Combined FF&U Adjustment Rate		Line 36 + Line 37	38
39	Total (Refunds)/Collections Including Franchise Fees & Uncollectibles		From Line 6 Above	39
40	Uncollectibles Included on Line 7 Above:			40
41	Total Refunds/Collections Including Franchise & Uncollectible Expense		From Line 39 Above	41
42	Adjustment Factor to Convert Line 38 Above Before FF&U		100% + Line 38	42
43	Total Refunds/Collections Before FF&U		Line 41 / Line 42	43
44	Combined FF&U Adjustment Rate		From Line 38 Above	44
45	Franchise Fees & Uncollectible Expense Adjustment <sup>1</sup>	\$ (131,269)	Line 43 x Line 44	45
46	Difference	\$ -		46

**San Diego Gas Electric Co.**  
**2016 TRBAA Rate Filing**  
**Monthly TRBAA Details for Period Ending September 30, 2015**

Line No.	Line No.
	<b>FOOTNOTES to Monthly TRBAA Balance:</b>
1	1 The Franchise Fees and Uncollectible expense amount adjustment are removed from the amount collected from/(refunded) to customers
2	2 to properly balance in the TRBAA mechanism only the approved revenue credits and CAISO charges.
3	3
4	4 CAISO charge code 4575, Settlements, Metering, Client Relations, was approved to be included as a component of Transmission Revenue
5	5 Credits, in Docket No. ER05-839-000, for expenses incurred starting June 21, 2005. The charge code is applicable to SDG&E as a PTO.
6	6
7	7 Existing Transmission Contract (ETC) Cost Differentials related to APS-IID. (See Work Paper No. 3; Pages 3.1 - 3.2; Line 8)
8	8 Pertains to SDG&E as the Scheduling Coordinator for Arizona Public Service - Imperial Irrigation District ("APS-IID").
9	9
10	10 Other Participating Transmission Owner (PTO) Related (Credits)/Charges include CAISO charge codes 7989, 7999, 8526, and 8999. In prior
11	11 filings, these charges codes were included as part of ETC Cost Differentials related to APS-IID. The segregation of these charges out of the ETC
12	12 Cost Differentials category and classifying them as Other PTO Related (Credits)/Charges enhances reporting transparency.

Work Paper – 3

Summary of CAISO Charge Codes -  
SDG&E as PTO and Scheduling Agent to  
Support Activities Shown on  
Work Paper – 2

San Diego Gas Electric Company  
 2016 TRBAA Rate Filing  
 CAISO Charge Types Oct. 2014 - Sep. 2015

Line No.	Description	October 2014	November 2014	December 2014	January 2015	February 2015	March 2015	April 2015	May 2015
1	<b>High Voltage Wheeling Revenues:</b>								
2	CT 384 - HV Wheeling Revenues Due TO	\$ (576,053)	\$ (619,460)	\$ (693,884)	\$ (839,511)	\$ (461,359)	\$ (401,630)	\$ (646,690)	\$ (536,281)
3									
4									
5	CT 4575 - Settlements, Metering, & Client Relations (SDGE-PTO)	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
6									
7									
8	ETC Cost Differentials from CAISO	\$ 489,630	\$ (5,224)	\$ 53,115	\$ (69,441)	\$ (500,123)	\$ 5,859	\$ (1,044)	\$ 34,450
9									
10									
11	Other PTO Related Revenue (Credits)/Charges	\$ 137,419	\$ 136,858	\$ 123,986	\$ 36,702	\$ (55,243)	\$ (67,106)	\$ (59,283)	\$ (153,370)
12									



San Diego Gas Electric Company  
 2016 TRBAA Rate Filing  
 CAISO Charge Types Oct. 2014 - Sep. 2015

Line No.	Description	June 2015	July 2015	August 2015	September 2015	Total	Reference	Line No.
1	<b>High Voltage Wheeling Revenues:</b>							1
2	CT 384 - HV Wheeling Revenues Due TO	\$ (654,312)	\$ (741,819)	\$ (711,786)	\$ (499,131)	\$ (7,381,918)	ISO Charge Type 384	2
3								3
4								4
5	CT 4575 - Settlements, Metering, & Client Relations (SDGE-PTO)	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 12,000	ISO Charge Type 4575	5
6								6
7								7
8	ETC Cost Differentials from CAISO	\$ (65,893)	\$ (109,112)	\$ (58,644)	\$ (308,117)	\$ (534,545)	Work Paper 8; Pages 8.1 - 8.2; Line 34	8
9								9
10								10
11	Other PTO Related Revenue (Credits)/Charges	\$ (15,964)	\$ (5,589)	\$ 1,503	\$ (1,805,972)	\$ (1,726,059)	Work Paper 10; Pages 10.1 - 10.2; Line 5	11
12								12

Work Paper – 4

Summary of Transmission Revenue  
(Credits)/Charges Forecast  
Shown on Work Papers – 5, 6, 7, & 9

**San Diego Gas Electric Co.**  
**Summary of Forecast Transmission Revenue (Credits)/Charges**  
**Shown on Pages 5, 6, 7 and 9**  
**2016 - TRBAA Rate Filing**

Line No.	Notes	Column (1)	Column (2)	Column (3)	Column (4)	Line No.
		Wheeling Revenues <sup>a</sup>	Client Relations Fee CT 4575 <sup>b</sup>	ETC Cost Differentials <sup>c</sup>	Other PTO Related Revenue (Credits)/Charges <sup>d</sup>	
1	Forecast Month					
	Jan-16	\$ (615,160)	\$ 1,000	\$ (44,545)	\$ (450,397)	1
	Feb-16	(615,160)	1,000	(44,545)	(450,397)	2
	Mar-16	(615,160)	1,000	(44,545)	(450,397)	3
	Apr-16	(615,160)	1,000	(44,545)	(450,397)	4
	May-16	(615,160)	1,000	(44,545)	(450,397)	5
	Jun-16	(615,160)	1,000	(44,545)	(450,397)	6
	Jul-16	(615,160)	1,000	(44,545)	(450,397)	7
	Aug-16	(615,160)	1,000	(44,545)	(450,397)	8
	Sep-16	(615,160)	1,000	(44,545)	(450,397)	9
	Oct-16	(615,160)	1,000	(44,545)	(450,397)	10
	Nov-16	(615,160)	1,000	(44,545)	(450,397)	11
	Dec-16	(615,160)	1,000	(44,545)	(450,397)	12
13	<b>Totals</b>	<b>\$ (7,381,918)</b>	<b>\$ 12,000</b>	<b>\$ (534,545)</b>	<b>\$ (5,404,761)</b>	13
14						14
a	From Work paper No. 5; Page 5.1; Column 4; Lines 1 through 12					
b	From Work paper No. 6; Page 6.1; Column 4; Lines 1 through 12					
c	From Work paper No. 7; Page 7.1; Column C; Lines 1 through 12					
d	From Work paper No. 9; Page 9.1; Column D; Lines 1 through 12					

Work Paper – 5

Derivation of Wheeling Revenue Forecast  
and its Allocation Between High Voltage  
and Low Voltage Facilities

**San Diego Gas & Electric Company**  
**2016 TRBAA Rate Filing**  
**Derivation of Wheeling Revenues Forecast**

Line No.	(1) Months	(2)		(3) Date	(4)		Line No.
		TRBAA Recorded High Voltage Wheeling Revenues (CT-384) <sup>a</sup>			TRBAA Forecast High Voltage Wheeling Revenues - Cash Month		
1	Oct-14	\$ (576,053)		Jan-16	\$ (615,160)		1
2	Nov-14	(619,460)		Feb-16	(615,160)		2
3	Dec-14	(693,884)		Mar-16	(615,160)		3
4	Jan-15	(839,511)		Apr-16	(615,160)		4
5	Feb-15	(461,359)		May-16	(615,160)		5
6	Mar-15	(401,630)		Jun-16	(615,160)		6
7	Apr-15	(646,690)		Jul-16	(615,160)		7
8	May-15	(536,281)		Aug-16	(615,160)		8
9	Jun-15	(654,312)		Sep-16	(615,160)		9
10	Jul-15	(741,819)		Oct-16	(615,160)		10
11	Aug-15	(711,786)		Nov-16	(615,160)		11
12	Sep-15	(499,131)		Dec-16	(615,160)		12
13	<b>Total - RECORDED</b>	\$ (7,381,918)			\$ (7,381,918)		13
14	<b>Monthly Average</b>	\$ (615,160)					14
<sup>a</sup>	See Work paper No. 3; Pages 3.1 and 3.2; Line 2						

**San Diego Gas & Electric Company**  
**2016 - TRBAA Rate Filing**  
**Wheeling Revenues Forecast Allocated Between High Voltage and Low Voltage Facilities**

1	<b>Note 1: Forecast of Wheeling Revenues</b>						<b>Reference</b>	1
2								2
3	The forecast of wheeling revenues is based on the 12-month recorded HV wheeling revenues ending 9/30/2015					\$	(7,381,918)	Work paper No. 5; Page 5.3, Column A, Line 25
4								4
5	<b>Note 2: HV-LV Wheeling Revenues Allocation Factors:</b>	(a)	(b)	(c) = (a) + (b)				5
6								6
7	<b>A. Development of Allocation Factors:</b>							7
8								8
9	TO4 Cycle 3 - Recorded Gross Plant Balances; Dollars in (\$000)	High Voltage	Low Voltage	Total				Docket No. ER16-445-000; Vol.1; Stmt BK2; Page 2; Line 14; Informational Filing December 1, 2015
10								10
11	TO4 Cycle 3 - Weighted Forecast Plant Additions; Dollars in (\$000)	\$ 2,787,031	\$ 1,580,474	\$ 4,367,505				Docket No. ER16-445-000; Vol.1; Stmt BK2; Page 2; Line 19; Informational Filing December 1, 2015
12								12
13	Total Recorded & Forecast Gross Plant Balances; Dollars in (\$000)	\$ 171,428	\$ 282,785	\$ 454,213				13
14								14
15	Total Recorded & Forecast Gross Plant Balances; Dollars in (\$000)	\$ 2,958,459	\$ 1,863,259	\$ 4,821,718				Sum Lines 9 and 11
16	High Voltage - Low Voltage Ratios Based on Gross Plant; Per Line 13	61.36%	38.64%	100.00%				Allocation Ratios Based on Line 13
17								16
18	<b>B. Allocation of High Voltage Wheeling Revenues:</b>							17
19	Total High Voltage Wheeling Revenues					\$	(7,381,918)	Work paper No. 5; Page 5.3, Column A, Line 25
20								18
21	HV - Allocation Ratio is NOT Based on Plant as shown on Line 15. <sup>1</sup>	100.00%		100.00%				Work paper No. 5; Page 5.3, Column A, Line 25
22								See Footnote 1 Below
23	<b>C. Total HV-LV Wheeling Revenues:</b>	\$ (7,381,918)		\$ (7,381,918)				Line 19 x Line 21
24								21
								22
								23
								24
	<b>NOTES:</b>							
	Wheeling Revenues are assigned 100% to High Voltage facilities							

San Diego Gas & Electric Company										
2016 - TRBAA Rate Filing										
Wheeling Revenues Forecast										
Line No	Months	(a) High Voltage Wheeling Revenues (384)	(b) Low Voltage Wheeling Revenues (385)	(c) Total	(d) Reference	Line No				
1	Oct-14	\$ (576,053)	\$ -	\$ (576,053)	Work paper No. 3; Page 3.1 and 3.2; Line 2	1				
2						2				
3	Nov-14	(619,460)	-	(619,460)	Work paper No. 3; Page 3.1 and 3.2; Line 2	3				
4						4				
5	Dec-14	(693,884)	-	(693,884)	Work paper No. 3; Page 3.1; Line 3.2; Line 2	5				
6						6				
7	Jan-15	(839,511)	-	(839,511)	Work paper No. 3; Page 3.1 and 3.2; Line 2	7				
8						8				
9	Feb-15	(461,359)	-	(461,359)	Work paper No. 3; Page 3.1 and 3.2; Line 2	9				
10						10				
11	Mar-15	(401,630)	-	(401,630)	Work paper No. 3; Page 3.1; Line 3.2; Line 2	11				
12						12				
13	Apr-15	(646,690)	-	(646,690)	Work paper No. 3; Page 3.1 and 3.2; Line 2	13				
14						14				
15	May-15	(536,281)	-	(536,281)	Work paper No. 3; Page 3.1 and 3.2; Line 2	15				
16						16				
17	Jun-15	(654,312)	-	(654,312)	Work paper No. 3; Page 3.1; Line 3.2; Line 2	17				
18						18				
19	Jul-15	(741,819)	-	(741,819)	Work paper No. 3; Page 3.1 and 3.2; Line 2	19				
20						20				
21	Aug-15	(711,786)	-	(711,786)	Work paper No. 3; Page 3.1 and 3.2; Line 2	21				
22						22				
23	Sep-15	(499,131)	-	(499,131)	Work paper No. 3; Page 3.1; Line 3.2; Line 2	23				
24						24				
25	<b>Total</b>	\$ (7,381,918)	\$ -	\$ (7,381,918)	Sum Lines 1 - 23	25				
26						26				
27	<b>Total Months</b>	12			12-Months Per Year	27				
28						28				
29	<b>Average Per Month</b>	\$ (615,160)			Line 25/Line27	29				
30						30				
31	<b>FORECAST Per Month</b>	\$ (615,160)			See Line 29	31				
32						32				
33	<b>Note 1: Forecast of Wheeling Revenues</b>									
34	Wheeling revenues forecast - average of 12-month recorded HV wheeling revenues @ 9/30/2015 \$ (7,381,918) Line 31; Col. (a) x 12									

## Work Paper – 6

Derivation of Settlements, Metering and  
Client Relations Charges Forecast  
and its Allocation Between High Voltage  
and Low Voltage Facilities



**San Diego Gas & Electric Company**  
**2016 TRBAA Rate Filing**  
**Derivation of ISO Charge Code 4575 - Settlements, Metering and Client Relations Forecast**

Line No.	(1)	(2)	(3)	(4)	Line No.
	Months	TRBAA Recorded Settlements, Metering Client Relations Charge Code - 4575 <sup>a</sup>	Date	TRBAA Forecast Settlements, Metering Client Relations Charge Code - 4575 - Cash Month <sup>b</sup>	
1	Oct-14	\$ 1,000	Jan-16	\$ 1,000	1
2	Nov-14	1,000	Feb-16	1,000	2
3	Dec-14	1,000	Mar-16	1,000	3
4	Jan-15	1,000	Apr-16	1,000	4
5	Feb-15	1,000	May-16	1,000	5
6	Mar-15	1,000	Jun-16	1,000	6
7	Apr-15	1,000	Jul-16	1,000	7
8	May-15	1,000	Aug-16	1,000	8
9	Jun-15	1,000	Sep-16	1,000	9
10	Jul-15	1,000	Oct-16	1,000	10
11	Aug-15	1,000	Nov-16	1,000	11
12	Sep-15	1,000	Dec-16	1,000	12
13	<b>Total</b>	\$ 12,000		\$ 12,000	13
14					14
15	<b>Total Months</b>				15
16					16
17	<b>Average Per Month</b>	\$ 1,000			17
18					18
19	<b>FORECAST Per Month</b>	\$ 1,000			19
20					20
<b>a</b>	See Work paper No. 3; Pages 3.1 and 3.2; Line 5				
<b>b</b>	CAISO Settlements, Metering and Client Relations forecast is based on the recorded new rates under MRTU of \$1,000 per month. This amount represents the amount charged to SDG&E as a PTO. A similar amount is charged to SDG&E as the Scheduling Coordinator for APS-IID where the amount is included as part of ETC Cost Differentials.				

San Diego Gas & Electric Company		2016 - TRBAA Rate Filing	
Charge Code 4575 - Settlements, Metering and Client Relations Allocated Between HV & LV			
1	<u>Note 1: Forecast of Settlements, Metering, &amp; Client Relations Expense</u>		Reference
2			
3	The forecast of Settlements, Metering and Client Relations Expense is Based on Recorded CC4575 Twelve Month Period Ending 9/30/2015	\$ 12,000	Work paper No. 6; Page 6.1, Col. 4, Line 13
4	Adjusted for Known and Measurable Changes.		
5			
6	<u>Note 2: Allocation of Settlements, Metering, &amp; Client Relations</u>	(c) = (a) + (b)	
7			
8	<u>A. Development of Allocation Ratios:</u>	High Voltage	Low Voltage
9		Total	
10	TO4 Cycle 3 - Recorded Gross Plant Balances; Dollars in (\$000)	\$ 2,787,031	\$ 1,580,474
11			
12	TO4 Cycle 3 - Weighted Forecast Plant Additions; Dollars in (\$000)	171,428	282,785
13			
14	Total Recorded & Forecast Gross Plant Balances; Dollars in (\$000)	\$ 2,958,459	\$ 1,863,259
15			
16	High Voltage - Low Voltage Allocation Ratios Based on Gross Plant; Per Line 14	61.36%	38.64%
17			100.00%
18	<u>B. Allocation of Settlements, Metering, &amp; Client Relations:</u>		
19			
20	Total Settlements, Metering, & Client Relations Forecast	\$ 12,000	Work paper No. 6; Page 6.1, Col. 4, Line 13
21			
22	Allocation Ratios Based on Gross Plant Balances; Per Line 14	61.36%	38.64%
23			See Line 16 Above
24	<u>C. Total Settlements, Metering, &amp; Client Relations:</u>	\$ 7,363	4,637
25			Line 20 x Line 22

Work Paper – 7

Derivation of ETC Cost Differentials  
Forecast and  
its Allocation Between High Voltage and  
Low Voltage Facilities

**San Diego Gas & Electric Company**  
**2016 TRBAA Rate Filing**  
**Derivation of ETC Cost Differentials Forecast**

Line No.	(1) Months	(2)		(3) Date	(4)		Line No.
		TRBAA Recorded Existing Transmission Contracts ("ETC") Cost Differentials <sup>a</sup>			TRBAA Forecast Existing Transmission Contracts ("ETC") Cost Differentials <sup>b</sup>		
1	Oct-14	\$	489,630	Jan-16	\$	(44,545)	1
2	Nov-14		(5,224)	Feb-16		(44,545)	2
3	Dec-14		53,115	Mar-16		(44,545)	3
4	Jan-15		(69,441)	Apr-16		(44,545)	4
5	Feb-15		(500,123)	May-16		(44,545)	5
6	Mar-15		5,859	Jun-16		(44,545)	6
7	Apr-15		(1,044)	Jul-16		(44,545)	7
8	May-15		34,450	Aug-16		(44,545)	8
9	Jun-15		(65,893)	Sep-16		(44,545)	9
10	Jul-15		(109,112)	Oct-16		(44,545)	10
11	Aug-15		(58,644)	Nov-16		(44,545)	11
12	Sep-15		(308,117)	Dec-16		(44,545)	12
13	<b>Total</b>	\$	<b>(534,545)</b>		\$	<b>(534,545)</b>	13
14							14
15	<b>Total Months</b>		<b>12</b>				15
16							16
17	<b>Average Per Month</b>	\$	<b>(44,545)</b>				17
18							18
19	<b>FORECAST Per Month</b>	\$	<b>(44,545)</b>				19
20							20
<b>a</b>	See Work paper No. 3; Pages 3.1 and 3.2; Line 8						
<b>b</b>	ETC Cost Differentials Forecast divided by 12 months						

San Diego Gas & Electric Company  
 2016 TRBAA Rate Filing  
 ETC Cost Differentials Forecast  
 Allocated Between HV and LV

	(a)	(b)	(c) = (a) + (b)	
	High Voltage	Low Voltage	Total	
1				
2			\$ (534,545)	Worksheet 7; Page 7.1; Line 13
3				
4			(c) = (a) + (b)	
5				
6				
7				
8	\$ 2,787,031	\$ 1,580,474	\$ 4,367,505	Docket No. ER16-445-000; Vol.1;Strmnt BK2; Page 2; Line 14; Informational Filing December 1, 2015
9				
10	171,428	282,785	454,213	Docket No. ER16-445-000; Vol.1;Strmnt BK2; Page 2; Line 19; Informational Filing December 1, 2015
11				
12	\$ 2,958,459	\$ 1,863,259	\$ 4,821,718	Sum Lines 8 and 10
13				
14	61.36%	38.64%	100.00%	Allocation Ratios Based on Line 12
15				
16	\$ (327,980)	\$ (206,565)	\$ (534,545)	Line 2; Col. C. x Line 14
17				

Work Paper – 8

Details of Monthly CAISO Charge Codes  
Classified as Existing Transmission Contract  
("ETC") Cost Differentials –  
SDG&E "Scheduling Agent" for APS-IID

San Diego Gas & Electric Company  
2016 TRBAA Rate Filing  
Details of Monthly ETC Cost Differentials

Line No.	Charge Type	ETC Cost Differentials Charge Types	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	6460	FMM Instructed Imbalance Energy Settlement	\$ 1,235	\$ (8,741)	\$ (3,770)	\$ (104)	\$ 6,420	\$ 5,668
2	6947	IFM Marginal Losses Surplus Credit Allocation	(108,613)	(68,039)	(78,375)	(98,936)	(63,639)	(120,792)
3	6977	Allocation of Transmission Loss Obligation Charge for Real Time Schedule Under Control Agreement	1	(844)	(353)	12	(3)	105
4	8526	Generator Interconnection Process Forfeited Deposit Allocation					(59,565)	
5		All Other						12
6	0382	High Voltage Wheeling Charge due ISO <sup>a</sup>	390	74,390	72,774	22,349	(281)	
7	0550	FERC Fees	5	624	613	188		
8	1303	Supplemental Reactive Energy Allocation						
9	1592	EP Penalty Allocation Payment						
10	4515	Bid Segment Fee	32	28	31	30	36	44
11	4560	GMC - Market Service Charge	190	3,135	1,595	(70)	(1,370)	(1,584)
12	4561	GMC - System Operations Charge	512	10,215	2,628	246	483	345
13	4563	GMC - Transmission Ownership Rights	28,449	27,229	31,219	33,741	38,252	51,564
14	4575	Settlements, Metering, Client Relations	1,000	1,000	1,000	1,000	1,000	1,000
15	4999	Neutrality Adjustment						
16	6011	Day Ahead Energy Congestion Loss Management	506,853	46,887	2,796	(30,195)	(452,878)	74,157
17	6194	Spinning Reserve Obligation Settlement	(176)	(55)	(50)	(30)	(104)	(47)
18	6294	Non-Spinning Reserve Obligation Settlement	(23)	(2)	(2)	(1)	(4)	(2)
19	6457	Declined Hourly Pre-Dispatched Penalty Allocation	(0)	(791)	(3,908)	(214)	784	2,140
20	6470	Real-Time Instructed Imbalance Energy Settlement	(7,243)	(39,475)	2,802	6,166	(23,128)	12,704
21	6477	Real-Time Imbalanced Energy Offset	1,603	(10,126)	5,128	(1,832)	7,781	(8,548)
22	6678	Real Time Bid Cost Recovery Allocation	(1)	5,013	3,574	(95)	41	(652)
23	6774	Real Time Congestion Offset	(224)	9,593	278	(353)	(287)	(786)
24	6788	Real Time Market Congestion Credit Settlement	60,495	(54,290)	13,911	(1,639)	49,654	(14,475)
25	6790	CRR Balancing Account	(0)	(4,532)	677	842	89	2,768
26	6791	CRR Accrued Interest Allocation	(0)	(1)	(1)	(0)	(0)	(0)
27	6985	Real Time Marginal Losses Offset	2,233	2,881	591	(191)	511	(685)
28	7056	Flexible Ramp Cost Allocation	3,019	424	(11)	103	805	1,429
29	7057	Flexible Ramp Supply Cost Allocation Reversal	(132)	(71)	(1)	(0)	(19)	(91)
30	7058	Monthly Flexible Ramp Supply Cost Allocation	29	163	10	5	(27)	80
31	7989	Invoice Deviation Interest Distribution	(4)	(35)	(54)	(462)	(4,766)	(243)
32	7999	Invoice Deviation Interest Allocation	-	194	11	1	93	3
33	8999	Neutrality Adjustment						1,747
34		<b>Grand Total</b>	\$ 489,630	\$ (5,224)	\$ 53,115	\$ (69,441)	\$ (500,123)	\$ 5,859
35								
36								
37		Adjusted Total ETC Cost Differential - Line 34 above	\$ 489,630	\$ (5,224)	\$ 53,115	\$ (69,441)	\$ (500,123)	\$ 5,859
38		Per TRBAA Schedule; Workpaper 2.1 to 2.4; Line 13	\$ 489,630	\$ (5,224)	\$ 53,115	\$ (69,441)	\$ (500,123)	\$ 5,859
39		Difference	-	-	-	-	-	-
40								

San Diego Gas & Electric Company  
2016 TRBAA Rate Filing  
Details of Monthly ETC Cost Differentials

Line No.	Charge Type	ETC Cost Differentials Charge Types	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Total	Line No.
1	6460	FMM Instructed Imbalance Energy Settlement	\$ 4,593	\$ 1,187	\$ (102,496)	\$ (92,301)	\$ 101,734	\$ (191,379)	\$ (277,954)	1
2	6947	IFM Marginal Losses Surplus Credit Allocation	(97,874)	(97,940)	(143,234)	(131,913)	(147,190)	(183,110)	(1,339,655)	2
3	6977	Allocation of Transmission Loss Obligation Charge for Real Time Schedule Under Control Agreement	2	(0)	(2)	(3)	202	421	(461)	3
4	8526	Generator Interconnection Process Forfeited Deposit Allocation							(59,565)	4
5		All Other							12	5
6	0382	High Voltage Wheeling Charge due ISO <sup>a</sup>	31	397	0	309	18,502	(72,831)	116,029	6
7	0550	FERC Fees	0	3		2	606		2,042	7
8	1303	Supplemental Reactive Energy Allocation	141	(0)	3	(4)		(0)	140	8
9	1592	EP Penalty Allocation Payment				(7,595)			(7,595)	9
10	4515	Bid Segment Fee	36	31	43	40	36	42	430	10
11	4560	GMC - Market Service Charge	266	288	180	2,606	2,248	809	8,294	11
12	4561	GMC - System Operations Charge	289	165	320	582	431	(4,977)	11,239	12
13	4563	GMC - Transmission Ownership Rights	41,294	37,187	48,613	44,705	45,686	59,496	487,434	13
14	4575	Settlements, Metering, Client Relations	1,000	1,000	1,000	1,000	1,000	1,000	12,000	14
15	4999	Neutrality Adjustment				(6)			(6)	15
16	6011	Day Ahead Energy Congestion Loss Management	47,875	87,268	38,656	(8,560)	(168,943)	34,804	178,720	16
17	6194	Spinning Reserve Obligation Settlement	(35)	(20)	(70)	(107)	(100)	(65)	(858)	17
18	6294	Non-Spinning Reserve Obligation Settlement	(3)	(1)	(13)	(15)	(9)	(25)	(101)	18
19	6457	Declined Hourly Pre-Dispatched Penalty Allocation				(0)	6	1,767	(216)	19
20	6470	Real-Time Instructed Imbalance Energy Settlement	(140)	1,902	102,356	77,490	52,123	49,802	235,357	20
21	6477	Real-Time Imbalanced Energy Offset	(72)	35	(33)	164	5,848	5,285	5,233	21
22	6678	Real Time Bid Cost Recovery Allocation	5	(2)	4	12	363	(4,056)	4,206	22
23	6774	Real Time Congestion Offset	(3)	11	6	26	(5,835)	(1,008)	1,417	23
24	6788	Real Time Market Congestion Credit Settlement	(3,543)	1,102	(20,889)	2,796	35,925	(1,537)	67,511	24
25	6790	CRR Balancing Account	17	(1)	29	(19)	(1,540)	4,722	3,051	25
26	6791	CRR Accrued Interest Allocation		(0)		(0)	(1)	1	(2)	26
27	6985	Real Time Marginal Losses Offset	2,752	1,290	8,657	292	2,633	(6,309)	14,657	27
28	7056	Flexible Ramp Cost Allocation	1,847	541	975	1,457	(463)	1,875	12,000	28
29	7057	Flexible Ramp Supply Cost Allocation Reversal	(93)	(44)	(11)	(142)	(93)	(15)	(712)	29
30	7058	Monthly Flexible Ramp Supply Cost Allocation	148	49	9	115	95	98	773	30
31	7989	Invoice Deviation Interest Distribution	(5)	(2)	(2)	(51)	(1,911)	(1,215)	(8,750)	31
32	7999	Invoice Deviation Interest Allocation	429	6	4	10	3	33	787	32
33	8999	Neutrality Adjustment						(1,747)	-	33
34		<b>Grand Total</b>	<b>\$ (1,044)</b>	<b>\$ 34,450</b>	<b>\$ (65,893)</b>	<b>\$ (109,112)</b>	<b>\$ (58,644)</b>	<b>\$ (308,117)</b>	<b>\$ (534,545)</b>	34
35										35
36										36
37		Adjusted Total ETC Cost Differential - Line 34 above	\$ (1,044)	\$ 34,450	\$ (65,893)	\$ (109,112)	\$ (58,644)	\$ (308,117)	\$ (534,545)	37
38		Per TRBAA Schedule, Worksheet 2.1 to 2.4; Line 13	\$ (1,044)	\$ 34,450	\$ (65,893)	\$ (109,112)	\$ (58,644)	\$ (308,117)	\$ (534,545)	38
39		Difference	-	-	-	-	-	-	-	39
40										40



**San Diego Gas & Electric Company  
Details of ETC Cost Differentials**

**Footnote**

Line No.	Footnote	Line No.
	<b>FOOTNOTE to Monthly ETC Cost Differentials Details:</b>	
1	<p><sup>a</sup> During the period of October 2014 through September 2015, SDG&amp;E was charged approximately \$116 thousand in Charge Code 382, High Voltage Wheeling Allocation, at three locations, PVWEST, North Gila, and Imperial Valley (IV), with almost all the Charge Code 382 were for those that occurred at IV. When SDG&amp;E is billed CAISO charge code 382, that same amount is received as corresponding revenue by SDG&amp;E as the PTO, under Charge Code 384, High Voltage Wheeling Revenue Payment, that flows through the TRBAA as wheeling revenue. SDG&amp;E disputed Charge Code 382 because of inadvertent modelling errors introduced by the CAISO in its Full Network Model that took place in the Trade Months of October, November, December of 2014, and July 2015. The CAISO concurred with the disputes and reversed the related charges to Charge Code 382. The disputed amounts for the Trade Months of October and November 2014 were received in August and September 2015. However, the disputed amounts for the Trade Months of December 2014 and July 2015 were received after September 2015. When the Charge Code 382 - High Voltage Wheeling Allocation amount is reversed, there is also a reversal in the same amount for the PTO's Charge Code 384 Wheeling Revenue.</p>	1

Work Paper – 9

Derivation of Other PTO Related Revenue  
(Credits)/Charges Forecast and  
its Allocation Between High Voltage and  
Low Voltage Facilities

**San Diego Gas & Electric Company**  
**2016 TRBAA Filing**  
**Derivation of Other PTO Related Revenue (Credits) / Charges**

Line No.	A	B	C	D	Line No.
	Months	TRBAA Recorded Other PTO Related Revenue (Credits)/Charges <sup>1</sup>	Date	TRBAA Forecast Other PTO Related Revenue (Credits)/Charges - Cash Month <sup>2</sup>	
1	Oct-14	\$ 137,419	Jan-16	\$ (450,397)	1
2	Nov-14	136,858	Feb-16	(450,397)	2
3	Dec-14	123,986	Mar-16	(450,397)	3
4	Jan-15	36,702	Apr-16	(450,397)	4
5	Feb-15	(55,243)	May-16	(450,397)	5
6	Mar-15	(67,106)	Jun-16	(450,397)	6
7	Apr-15	(59,283)	Jul-16	(450,397)	7
8	May-15	(153,370)	Aug-16	(450,397)	8
9	Jun-15	(15,964)	Sep-16	(450,397)	9
10	Jul-15	(5,589)	Oct-16	(450,397)	10
11	Aug-15	1,503	Nov-16	(450,397)	11
12	Sep-15	(1,805,972)	Dec-16	(450,397)	12
13	<b>Total</b>	\$ (1,726,059)	<b>(c)</b>	\$ (5,404,761)	13
14					14
<sup>1</sup>	See WP No. 3; Pages 3.1 and 3.2; Line 11/ WP No. 10; Page 10.2 Total Col. Line 5			\$ (1,726,059)	
	Less: Sept 2015 Charge Code 8526 refund for Generator Interconnection Process Deposit (See WP No. 10; Page 10.2; Sept 2015 Col; Line 3)			1,805,134	(a)
	Add: Oct 2015 Charge Code 8526 refund for Generator Interconnection Process Deposit (See WP No. 9; Page 9.3, Line 13 for detail analysis and CAISO Market Payment Advice copies)			(5,483,836)	(b)
	Net Charge Code 8526 Forecast			\$ (5,404,761)	(c)
<sup>2</sup>	Forecast Per Month = (c) / 12 Months			\$ (450,397)	
	(a) In accordance with the CAISO Tariff Appendix DD, Section 7.6, amounts to be allocated associated with CAISO Charge Code 8526, Generator Interconnection Process Forfeited Deposit Allocation, would be credited to Participating Transmission Owner's (PTO's). In September 22, 2015, SDG&E received \$1,805,134.49, from the CAISO through charge code 8526 and was flowed through the TRBAA. This amount was excluded in developing the 2016 forecast, since it was already included as part of the September 30, 2015 TRBAA balance.				
	(b) In October 6, 2015, SDG&E also received from the CAISO an additional amount totaling \$5,483,836.42 applicable to charge code 8526 that was also flowed through the TRBAA. This amount was included in the 2016 forecast since it's a known amount that will have to be credited back to customers during the 2016 rate effective period.				

San Diego Gas & Electric Company  
2016 - TRBAA Rate Filing

Derivation of Other PTO Related Revenue (Credits)/Charges Allocated Between HV and LV

Line	Description	High Voltage	Low Voltage	Total	Reference
1	<u>Note 1: Forecast of Other PTO Related Revenue (Credits)/Charges</u>	(a)	(b)	(c) = (a) + (b)	
2	Recorded Other PTO Related Revenue (Credits)/Charges For Twelve Month Period Ending 9/30/2015				WP No. 10; Page 10.2, Total Col, Line 5
3	CC 8526 Other PTO Related Revenue (Credits)/Charges received on Sept, 2015				WP No. 10; Page 10.2, Sept 15 Col, Line 3
4	Derived Forecast of Other PTO Related Revenue (Credits)/Charges - to be allocated by gross plant balances (see Note 2)				Line 3 + Line 4
5	CC 8526 - Generator Interconnection Process Forfeited Deposit Allocation Refund Received on Oct, 2015 (See Note 3)				See WP 9.1 footnote (b) explanation for inclusion
6	Total Derived Forecast of Other PTO Related Revenue (Credits)/Charges				Line 5 + Line 7
7	<u>Note 2: Allocation of Other PTO Related Revenue (Credits)/Charges on Line 5</u>				
8	<u>Development of Gross Plant Balances Allocation Ratios:</u>				
9	TO4 Cycle 3 - Recorded Gross Plant Balances; Dollars in (\$000)	\$ 2,787,031	\$ 1,580,474	\$ 4,367,505	Docket No. ER16-445-000; Vol.1; Stmtt BK2; Page 2; Line 14; Informational Filing December 1, 2015
10	TO4 Cycle 3 - Weighted Forecast Plant Additions; Dollars in (\$000)	171,428	282,785	454,213	Docket No. ER16-445-000; Vol.1; Stmtt BK2; Page 2; Line 19; Informational Filing December 1, 2015
11	Total Recorded & Forecast Gross Plant Balances; Dollars in (\$000)	\$ 2,958,459	\$ 1,863,259	\$ 4,821,718	Sum Lines 15 and 17
12	High Voltage - Low Voltage Allocation Ratios Based on Gross Plant; Per Line 19	61.36%	38.64%	100.00%	Allocation Ratios Based on Line 19
13	Net Forecast of Other PTO Related Revenue (Credits)/Charges				See line 5 above
14	Allocation Ratios Based on Gross Plant Balances; Per Line 21	61.36%	38.64%	100.00%	See Line 21 Above
15	<u>Total Allocation of Other PTO Related Revenue (Credits)/Charges on Line 5</u>	\$ 48,518	\$ 30,557	\$ 79,075	Line 23 x Line 25
16	<u>Note 3: Allocation of Other PTO Related Revenue (Credits)/Charges on Line 7</u>				See WP 9.1 footnote (b) explanation assigned to HV per CAISO
17	<u>Total Other PTO Related Revenue (Credits)/Charges HV/LV Allocation</u>	\$ (5,483,836)	\$ 30,557	\$ (5,404,761)	Line 27 + Line 29
18					
19					
20					
21					
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23					
24					
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26					
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28					
29					
30					
31					
32					

San Diego Gas & Electric Company  
 Development Analysis on CAISO Charge Code 8526 - Generator Interconnection Process Forfeited Deposit Allocation  
 For 2016 TRBAA Filing Forecast

Line No	Date	SDG&E Was Paid	Amount	Note	Reference	Line No
1			\$ 1,605,964.19	HVT		1
2			\$ 199,170.30	LVT		2
3	9/22/2015		\$ 1,805,134.49	HVT and LVT Total	Line 1 + Line 2	3
4						4
5			\$ 7,089,800.61	On 9/30/15, CAISO Adjusted the <u>HVT</u> Amount to be		5
6			\$ 5,483,836.42	HVT Amount which should have been on T+12 Invoice	Line 5 - Line 1	6
7						7
8			\$ 199,170.30	Due to an inadvertent error, CAISO included the LTRR Portion in the T+12 HVT Calculation	See Line 2	8
9			\$ 5,284,666.12	As a result, the T+12 Invoice 8526 Amount was this, following the Normal Invoice Process	Line 6 - Line 8	9
10						10
11	10/6/2015	9.3A	\$ 199,170.30	Supplemental Invoice Amount paid on 06Oct2015	See CAISO Payment Advice copy (WP 9.3A)	11
12	10/6/2015	9.3B (1 of 3)	\$ 5,284,666.12	As a result, the T+12 Invoice 8526 Amount was this, following the Normal Invoice Process	See CAISO Payment Advice copy (WP 9.3B Page 1 of 3)	12
13	10/6/2015		\$ 5,483,836.42	Total received on 06Oct2015 under two Invoices, the T+12 and the 2nd being the Supplemental	Line 11 + Line 12; See Line 6	13
14						14
15			\$ 7,089,800.61	Validated Total HVT Amount due T002	Line 1 + Line 13; See Line 5	15



# California ISO

Shaping a Renewed Future

## Market Payment Advice

Date: 30-Sep-15

San Diego Gas & Electric Co.  
101 ASH STREET  
SAN DIEGO CA 92101

Invoice #: 2015093032=195922

BAID: 1188

Invoice Month: September 2015

Due Date: 06-Oct-15

**Please send payment to:**

ABA #122000496  
122000496  
San Diego Gas & Electric Co. 4430000352

**For all inquiries contact:**

California ISO  
250 OUTCROPPING WAY  
FOLSOM CA 95630

**Comments:**

**Charges for Bill Period:** September 01, 2015 to September 30, 2015

Charge Code	Description	Current	Previous	Net
8526	Generator Interconnection Process Forfeited Deposit Allocation	(\$ 199,170.30)	\$ 0.00	(\$ 199,170.30)
	<b>Charge Group Total</b>	(\$ 199,170.30)	\$ 0.00	(\$ 199,170.30)
	<b>Parent Group Total</b>	(\$ 199,170.30)	\$ 0.00	(\$ 199,170.30)
	<b>Bill Period Total:</b>	(\$ 199,170.30)	\$ 0.00	(\$ 199,170.30)
	<b>Invoice Total:</b>			(\$ 199,170.30)

Invoice 2 of 2 received on 10/6/15 in the amount of \$199,170.30

(\$ 199,170.30)

9.3



# California ISO

Shaping a Renewed Future

## Market Payment Advice

Date: 29-Sep-2015

Page: 1 of 3

San Diego Gas & Electric Co.  
101 ASH STREET  
SAN DIEGO CA 92101

Invoice #: 2015092931-30862322

Date: 09/29/2015

BAID: 1188

Invoice Month: September 2015

Due Date: 10/06/2015

### Please send payment to:

ABA #122000496  
122000496  
San Diego Gas & Electric Co. 4430000352  
FOLSOM

For all inquiries contact:

California ISO Settlements Internal Use Only  
250 OUTCROPPING WAY  
FOLSOM CA 95630

### Comments:

Charges for Bill Period: 09/04/2015 to 09/13/2015

Charge Code	Description	Current	Previous	Net
CC7989	Invoice Deviation Interest Distribution	(5,527.90)	(5,527.90)	0.00
CC7999	Invoice Deviation Interest Allocation	2,594.94	2,594.94	0.00
<b>Invoice Deviation Interest Charge Group Total</b>		<b>(\$2,932.96)</b>	<b>(\$2,932.96)</b>	<b>\$0.00</b>
<b>Financial Adjustments Parent Group Total</b>		<b>(\$2,932.96)</b>	<b>(\$2,932.96)</b>	<b>\$0.00</b>
CC8526	Generator Interconnection Process Forfeited Deposit Allocation	(7,089,800.61)	(1,805,134.49)	(5,284,666.12)
<b>GIP Forfeited Deposit Allocation Charge Group</b>		<b>(\$7,089,800.61)</b>	<b>(\$1,805,134.49)</b>	<b>(\$5,284,666.12)</b>
Due to an inadvertent error, the CAISO subtracted all of the 8526 amount received on 9/22/15. Only the initial HVT portion received should have been subtracted, which was \$1,605,964.19		(\$7,089,800.61)	(\$1,805,134.49)	(\$5,284,666.12)
CC6489	Exceptional Dispatch Uplift Allocation	9,301.86	10,280.80	(978.94)
<b>Exceptional Dispatch Charge Group Total</b>		<b>\$9,301.86</b>	<b>\$10,280.80</b>	<b>(\$978.94)</b>
<b>HASP-RT Settlement Parent Group Total</b>		<b>\$9,301.86</b>	<b>\$10,280.80</b>	<b>(\$978.94)</b>

9.3



# California ISO

Shaping a Renewed Future

## Market Payment Advice

Date: 29-Sep-2015

Page: 2 of 3

San Diego Gas & Electric Co.  
101 ASH STREET  
SAN DIEGO CA 92101

Invoice #: 2015092931-30862322  
Date: 09/29/2015  
BAID: 1188  
Invoice Month: September 2015  
Due Date: 10/06/2015

**Please send payment to:**

ABA #122000496  
122000496  
San Diego Gas & Electric Co. 4430000352  
FOLSOM

For all inquiries contact:  
California ISO Settlements Internal Use Only  
250 OUTCROPPING WAY  
FOLSOM CA 95630

**Comments:**

**Charges for Bill Period:** 09/04/2015 to 09/13/2015

Charge Code	Description	Current	Previous	Net
	<b>Bill Period Total:</b>	<b>(\$7,083,431.71)</b>	<b>(\$1,797,786.64)</b>	<b>(\$5,285,645.06)</b>





# California ISO

Shaping a Renewed Future

## Market Payment Advice

Date: 29-Sep-2015

Page: 3 of 3

San Diego Gas & Electric Co.  
101 ASH STREET  
SAN DIEGO CA 92101

Invoice #: 2015092931-30862322  
Date: 09/29/2015  
BAID: 1188  
Invoice Month: September 2015  
Due Date: 10/06/2015

**Please send payment to:**

ABA #122000496  
122000496  
San Diego Gas & Electric Co. 4430000352  
FOLSOM

For all inquiries contact:  
California ISO Settlements Internal Use Only  
250 OUTCROPPING WAY  
FOLSOM CA 95630

**Comments:**

**Charges for Bill Period:** 09/21/2015 to 09/27/2015

Charge Code	Description	Current	Previous	Net
CC7989	Invoice Deviation Interest Distribution	(246.95)	0.00	(246.95)
CC7999	Invoice Deviation Interest Allocation	377.94	0.00	377.94
<b>Invoice Deviation Interest Charge Group Total</b>		<b>\$130.99</b>	<b>\$0.00</b>	<b>\$130.99</b>
<b>Financial Adjustments Parent Group Total</b>		<b>\$130.99</b>	<b>\$0.00</b>	<b>\$130.99</b>
CC6489	Exceptional Dispatch Uplift Allocation	868.72	0.00	868.72
<b>Exceptional Dispatch Charge Group Total</b>		<b>\$868.72</b>	<b>\$0.00</b>	<b>\$868.72</b>
<b>HASP-RT Settlement Parent Group Total</b>		<b>\$868.72</b>	<b>\$0.00</b>	<b>\$868.72</b>
<b>Bill Period Total:</b>		<b>\$999.71</b>	<b>\$0.00</b>	<b>\$999.71</b>
<b>Invoice Total:</b>				<b>(\$5,284,645.36)</b>

Work Paper – 10  
Details of Monthly  
Other PTO Related  
Revenue (Credits)/Charges

San Diego Gas & Electric Company  
 2016 TRBAA Rate Filing  
 Details of Monthly Other PTO Related Revenue (Credits)/Charges

Line No.	Charge Type	Other PTO Related Revenue (Credits)/Charge Types <sup>a</sup>	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
1	7989	Invoice Deviation Interest Distribution	\$ (3,641)	\$ (117)	\$ (36)	\$ (58,570)	\$ (54,799)	\$ (71,514)
2	7999	Invoice Deviation Interest Allocation	141,060	136,975	124,021	95,273	807	4,407
3	8526	Generator Interconnection Process Forfeited Deposit Allocation					(1,251)	
4	8999	Neutrality Adjustment						
5		<b>Grand Total</b>	<b>\$ 137,419</b>	<b>\$ 136,858</b>	<b>\$ 123,986</b>	<b>\$ 36,702</b>	<b>\$ (55,243)</b>	<b>\$ (67,106)</b>
6								
7								
8		Adjusted Total Other PTO Related Revenue (Credits)/Charges - Line 5 above	\$ 137,419	\$ 136,858	\$ 123,986	\$ 36,702	\$ (55,243)	\$ (67,106)
9		Per TRBAA Schedule; Workpaper 2.1 to 2.4; Line 14	\$ 137,419	\$ 136,858	\$ 123,986	\$ 36,702	\$ (55,243)	\$ (67,106)
10		Difference	-	-	-	-	-	-
11								
a		Other Participating Transmission Owner (PTO) Related (Credits)/Charges include CAISO charge codes 7989, 7999, 8526, and 8999. In prior filings, these charges codes were included as part of ETC Cost Differentials related to APS-IID. The segregation of these charges out of the ETC Cost Differentials category and classifying them as Other PTO Related (Credits)/Charges enhances reporting transparency.						

San Diego Gas & Electric Company  
2016 TRBAA Rate Filing  
Details of Monthly Other PTO Related Revenue (Credits)/Charges

Line No.	Charge Type	Other PTO Related Revenue (Credits)/Charge Types <sup>a</sup>	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Total	Line No.
1	7989	Invoice Deviation Interest Distribution	\$ (60,817)	\$ (153,529)	\$ (16,108)	\$ (6,633)	\$ (6,171)	\$ (5,679)	\$ (437,615)	1
2	7999	Invoice Deviation Interest Allocation	1,534	159	144	1,045	7,674	4,841	517,941	2
3	8526	Generator Interconnection Process Forfeited Deposit Allocation						(1,805,134)	(1,806,386)	3
4	8999	Neutrality Adjustment							-	4
5		<b>Grand Total</b>	<b>\$ (59,283)</b>	<b>\$ (153,370)</b>	<b>\$ (15,964)</b>	<b>\$ (5,589)</b>	<b>\$ 1,503</b>	<b>\$ (1,805,972)</b>	<b>\$ (1,726,059)</b>	5
6										6
7										7
8		Adjusted Total Other PTO Related Revenue (Credits)/Charges - Line 5 above	\$ (59,283)	\$ (153,370)	\$ (15,964)	\$ (5,589)	\$ 1,503	\$ (1,805,972)	\$ (1,726,059)	8
9		Per TRBAA Schedule; Workpaper 2.1 to 2.4; Line 14	\$ (59,283)	\$ (153,370)	\$ (15,964)	\$ (5,589)	\$ 1,503	\$ (1,805,972)	\$ (1,726,059)	9
10		Difference	-	-	-	-	-	-	-	10
11										11
<sup>a</sup>		Other Participating Transmission Owner (PTO) Related (Credits)/Charges include CAISO charge codes 7989, 7999, 8526, and 8999. In prior filings, these charges codes were included as part of ETC Cost Differentials related to APS-IID. The segregation of these charges out of the ETC Cost Differentials category and classifying them as Other PTO Related (Credits)/Charges enhances reporting transparency.								

Work Paper – 11

Allocation of Standby Revenues  
Between High Voltage and  
Low Voltage Facilities

San Diego Gas & Electric Company

2016 - TRBAA Rate Filing

Standby Revenues

Line No.				Total	Reference	Line No.
1	<b>Note 1: Standby Revenues:</b>					1
2					TO4-Cycle 3 Informational Filing; Docket No. ER16-445-000	2
3	Total Standby Revenues <sup>1</sup>			\$ 11,096,064	Statement BG; Page 1; Line 24; Col. A	3
4						4
5	<b>Note 2: Allocation of Standby Revenues Between HV-LV:</b>			(c) = (a) + (b)		5
6		(a)	(b)			6
7	<b>A. Development of Allocation Ratios:</b>	High Voltage	Low Voltage	Total		7
8						8
9	TO4-Cycle 3 Informational Filing- Wholesale Base TRR (\$ in 1000)	\$ 492,206	\$ 303,290	\$ 795,496	TO4-Cycle 3 Informational Filing; Docket No. ER16-445-000	9
10						10
11	Allocation Ratios Based on Wholesale Base TRR per Line 9	61.87%	38.13%	100.00%	Ratios Based on Line 9	11
12						12
13	<b>B. Standby Revenues - Allocated Between HV-LV</b>	\$ 6,865,590	\$ 4,230,474	\$ 11,096,064	Line 3 x Line 11	13
14						14

<sup>1</sup> The Standby Revenue amount of \$11,096,064 comes from Cost Statement BG; Page 1; Column A; Line 24, in FERC Docket No. ER16-445-000; Informational Filing, filed with the FERC on December 1, 2015.

Work Paper - 12  
12-Month Recorded Sales Ending 9/30/2015  
& 12-Month Forecast Sales from  
1/1/2016 thru 12/31/2016

Line No.	System Delivery Determinants	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Total
1	Customer Class Deliveries (MWh)													
2	Residential	688,658	559,881	590,713	654,947	535,798	523,755	500,457	505,583	510,494	599,362	654,904	777,855	7,102,407
3	Small Commercial	179,732	165,753	156,408	158,997	145,288	152,623	137,570	148,065	150,826	169,237	171,789	184,437	1,940,764
4	Med. & Large Comm./Ind.	914,543	818,356	809,808	829,206	833,177	780,573	829,206	815,022	751,011	940,849	895,518	937,539	10,164,970
5	Agriculture (PA)	8,811	7,888	5,561	4,831	6,130	5,933	7,997	7,519	7,787	8,937	8,593	9,530	89,515
6	Agriculture (PA-T-1)	20,934	20,879	15,932	12,506	16,555	15,367	19,457	16,045	15,866	19,154	44,309	17,339	234,343
7	Lighting	5,597	10,246	7,366	5,423	10,807	7,851	8,589	4,867	7,063	9,130	4,809	8,163	89,911
8	Sale for Resale	4.7	11.3	15.0	7.5	0.5	3.4	6.8	6.8	0.6	1.5	0.5	0.5	57.9
9	Total System	1,818,280	1,583,014	1,585,803	1,665,918	1,547,756	1,486,104	1,529,444	1,501,105	1,443,048	1,746,690	1,779,922	1,934,884	19,621,968
10	Total System - EXCLUDING Sale for Resale	1,818,275	1,583,002	1,585,788	1,665,910	1,547,756	1,486,101	1,529,437	1,501,101	1,443,047	1,746,688	1,779,922	1,934,884	19,621,911
11														
12														
13														
14	INPUT FROM RECORDED DETERMINANTS:													
15	Medium & Large Details - Deliveries in MWh:													
16	Med & Large C/I (AD)	4,012	3,382	3,119	3,219	3,022	3,064	3,211	3,181	3,038	3,325	3,469	3,744	39,786
17	Med & Large C/I (AL+AY+DGR)	839,632	750,935	745,192	760,858	775,371	714,206	768,825	760,023	713,788	843,724	829,949	876,425	9,378,927
18	Med & Large C/I (AG)	70,899	64,039	61,497	65,129	54,785	63,303	63,332	55,817	34,185	93,800	62,101	57,370	746,257
19	Total	914,543	818,356	809,808	829,206	833,177	780,573	835,368	819,022	751,011	940,849	895,518	937,539	10,164,970
20														
21														
22	System Delivery Determinants													
23	Customer Class Deliveries (kWh)													
24	Residential	688,658,138	559,880,773	590,713,442	654,946,809	535,798,244	523,755,011	500,457,028	505,583,138	510,494,276	599,361,586	654,903,690	777,855,363	7,102,407,498
25	Small Commercial	179,731,896	165,752,621	156,407,691	158,996,758	145,288,076	152,622,698	137,569,514	148,065,197	150,825,939	169,237,114	171,789,464	184,437,379	1,940,764,347
26	Med. & Large Comm./Ind.	914,543,246	818,356,420	809,807,973	829,205,681	833,177,428	780,572,590	835,367,803	819,021,759	751,011,301	940,848,952	895,518,272	937,538,773	10,164,970,098
27	Agriculture (PA)	8,810,844	7,887,915	5,560,685	4,831,195	6,129,852	5,932,939	7,996,627	7,518,836	7,787,178	8,937,155	8,592,521	9,529,687	89,515,434
28	Agriculture (PA-T-1)	20,933,961	20,879,015	15,932,189	12,506,421	16,555,379	15,366,852	19,457,062	16,045,251	15,865,512	19,153,571	44,308,534	17,339,281	234,343,028
29	Lighting	5,597,297	10,245,738	7,366,162	5,423,418	10,806,555	7,850,608	8,589,040	4,866,573	7,062,850	9,129,845	4,809,371	8,163,389	89,910,846
30	Sale for Resale	4,679	11,300	14,983	7,458	460	6,764	4,492	4,492	574	1,533	535	536	56,709
31	Total System	1,818,280,061	1,583,013,782	1,585,803,025	1,665,917,740	1,547,755,994	1,486,104,093	1,529,443,838	1,501,105,246	1,443,047,630	1,746,689,756	1,779,922,387	1,934,884,408	19,621,967,960
32	Total System - EXCLUDING Sale for Resale	1,818,275,382	1,583,002,482	1,585,788,042	1,665,910,282	1,547,755,534	1,486,100,698	1,529,437,074	1,501,100,754	1,443,047,056	1,746,688,223	1,779,921,852	1,934,883,872	19,621,911,251
33														
34	INPUT FROM RECORDED DETERMINANTS:													
35	Medium & Large Details - Deliveries in kWh:													
36	Med & Large C/I (AD)	4,012,371	3,382,250	3,119,207	3,218,862	3,021,594	3,063,845	3,210,851	3,181,481	3,038,164	3,324,696	3,468,662	3,743,913	39,785,896
37	Med & Large C/I (AL+AY+DGR)	839,631,954	750,935,107	745,191,966	760,857,968	775,370,846	714,205,566	768,824,665	760,023,407	713,788,186	843,723,886	829,948,767	876,424,701	9,378,927,019
38	Med & Large C/I (AG)	70,898,921	64,039,063	61,496,700	65,128,851	54,784,988	63,303,179	63,332,287	55,816,871	34,184,951	93,800,370	62,100,843	57,370,159	746,257,183
39	Total	914,543,246	818,356,420	809,807,973	829,205,681	833,177,428	780,572,590	835,367,803	819,021,759	751,011,301	940,848,952	895,518,272	937,538,773	10,164,970,098
40														



San Diego Gas & Electric Forecast Billing Determinants for the 12-Month Period: January 2016 - December 2016													Line No.	
Line No.	System Delivery Determinants	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Total
1	Customer Class Deliveries (MWh)	727,420	636,792	609,933	538,437	552,577	580,784	666,573	682,833	738,416	633,833	595,422	678,356	7,681,377
2	Residential	160,332	153,698	151,746	147,213	150,465	157,808	172,588	171,202	184,873	164,655	154,757	156,347	1,923,682
3	Small Commercial	806,964	782,042	771,005	775,708	804,428	835,840	899,709	881,327	951,387	858,675	829,663	802,076	9,998,822
4	Med. & Large Comm./Ind.	4,580	4,635	4,677	5,633	6,827	8,291	9,298	9,161	9,770	8,158	6,725	5,407	83,162
5	Agriculture (PA)	14,423	14,339	14,311	16,300	19,692	22,786	25,221	24,236	25,455	21,861	18,803	15,922	233,349
6	Agriculture (PA-T-1)	7,898	7,502	7,495	7,315	7,356	7,633	7,736	7,360	7,738	7,429	7,543	7,827	90,832
7	Lighting	3.2	3.1	3.1	3.0	3.0	3.0	3.2	3.0	3.0	3.0	3.1	3.2	37.3
8	Sale for Resale	1,721,620	1,599,010	1,559,171	1,510,609	1,541,348	1,613,144	1,781,128	1,776,122	1,937,643	1,694,614	1,612,917	1,665,936	20,013,263
9	Total System	1,721,617	1,599,007	1,559,167	1,510,606	1,541,345	1,613,141	1,781,124	1,776,119	1,937,640	1,694,611	1,612,914	1,665,933	20,013,226
10	Total System - EXCLUDING Sale for Resale													
11														
12														
13														
14	<b>INPUT FROM FORECAST INFORMATION:</b>													
15	Medium & Large Details - Deliveries in MWh:													
16	Med & Large CI (AD)	2,950	2,922	2,944	2,825	2,916	3,034	3,173	3,208	3,517	3,117	2,884	2,791	36,281
17	Med & Large CI (AL+AY+DGR)	739,542	723,493	716,290	714,398	738,747	773,852	830,532	815,255	878,846	794,380	758,472	733,309	9,217,117
18	Med & Large CI (A6)	64,472	55,627	51,771	58,484	62,765	58,954	66,003	62,864	69,024	61,179	68,307	65,975	745,424
19	Total	806,964	782,042	771,005	775,708	804,428	835,840	899,709	881,327	951,387	858,675	829,663	802,076	9,998,822
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
32														
33														
34	<b>INPUT FROM FORECAST INFORMATION:</b>													
35	Medium & Large Details - Deliveries in kWh:													
36	Med & Large CI (AD)	2,949,549	2,921,750	2,944,397	2,825,445	2,915,875	3,034,062	3,172,918	3,208,262	3,516,575	3,116,800	2,884,310	2,791,130	36,281,074
37	Med & Large CI (AL+AY+DGR)	739,542,416	723,492,779	716,290,337	714,398,097	738,746,887	773,852,170	830,532,471	815,254,755	878,846,228	794,379,691	758,471,881	733,309,323	9,217,117,035
38	Med & Large CI (A6)	64,471,800	55,627,023	51,770,504	58,483,966	62,764,832	58,953,579	66,003,143	62,864,307	69,024,724	61,178,600	68,307,263	65,975,228	745,423,968
39	Total	806,963,765	782,041,552	771,005,238	775,707,508	804,427,595	835,839,811	899,708,532	881,327,324	951,386,527	858,675,091	829,663,454	802,075,681	9,998,822,077
40														

San Diego Gas & Electric Company  
2016 TACBAA Rate Filing

Attachment - D  
Transmission Access Charge Balancing  
Account Adjustment (TACBAA)  
Cost Statements

ER16-\_\_\_\_\_-000

**San Diego Gas & Electric Company  
Annual TACBAA Rate Filing  
Cost Statements  
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# San Diego Gas & Electric Company

## Attachment – D (Cont'd)

### A. Statement BD - Allocation Energy and Supporting Data

ER16-\_\_\_\_\_-000

**Statement BD**  
**San Diego Gas & Electric Company**  
**2016 - TACBAA Rate Filing**

**Allocation Energy and Supporting Data**

Line No.	Date	(A) Retail Energy Sales @ Meter Level Plus Sale for Resale	(B) City of Escondido <sup>1</sup>	(C) = (A) - (B) Retail Energy Sales @ Meter Level Net of Sale for Resale	Reference	Line No.
1	Nov-14	1,583,013,782	11,300	1,583,002,482	Workpaper No. 5; Page 5.1; Lines 30; 29	1
2	Dec-14	1,585,803,025	14,983	1,585,788,042	Workpaper No. 5; Page 5.1; Lines 30; 29	2
3	Jan-15	1,665,917,740	7,458	1,665,910,282	Workpaper No. 5; Page 5.1; Lines 30; 29	3
4	Feb-15	1,547,755,994	460	1,547,755,534	Workpaper No. 5; Page 5.1; Lines 30; 29	4
5	Mar-15	1,486,104,093	3,395	1,486,100,698	Workpaper No. 5; Page 5.1; Lines 30; 29	5
6	Apr-15	1,529,443,838	6,764	1,529,437,074	Workpaper No. 5; Page 5.1; Lines 30; 29	6
7	May-15	1,501,105,246	4,492	1,501,100,754	Workpaper No. 5; Page 5.1; Lines 30; 29	7
8	Jun-15	1,443,047,630	574	1,443,047,056	Workpaper No. 5; Page 5.1; Lines 30; 29	8
9	Jul-15	1,746,689,756	1,533	1,746,688,223	Workpaper No. 5; Page 5.1; Lines 30; 29	9
10	Aug-15	1,779,922,387	535	1,779,921,852	Workpaper No. 5; Page 5.1; Lines 30; 29	10
11	Sep-15	1,934,884,408	536	1,934,883,872	Workpaper No. 5; Page 5.1; Lines 30; 29	11
12	Oct-15	1,951,229,343	525	1,951,228,818	Workpaper No. 5; Page 5.1; Lines 30; 29	12
13						13
14						14
15	Total	19,754,917,242	52,555	19,754,864,687	Sum Lines 1 thru 12	15

Notes:

<sup>1</sup> Escondido Mutual sales are excluded from the KWh total because they are classified as sales to wholesale customers.

**Statement BD**

**San Diego Gas & Electric Company**

**2016 - TACBAA Rate Filing**

**Allocation Energy and Supporting Data**

		(A)	(B)	(C) = (A) - (B)	
		Retail Energy Sales	City of Escondido <sup>1</sup>	Retail Energy Sales	
Line No.	Date	@ Meter Level Plus Sale for Resale		@ Meter Level Net of Sale for Resale	Reference
1	Jan-16	1,721,620,279	3,249	1,721,617,031	Workpaper No. 5; Page 5.2; Lines 30; 29
2	Feb-16	1,599,010,033	3,068	1,599,006,965	Workpaper No. 5; Page 5.2; Lines 30; 29
3	Mar-16	1,559,170,558	3,090	1,559,167,468	Workpaper No. 5; Page 5.2; Lines 30; 29
4	Apr-16	1,510,609,164	3,014	1,510,606,150	Workpaper No. 5; Page 5.2; Lines 30; 29
5	May-16	1,541,348,309	3,037	1,541,345,272	Workpaper No. 5; Page 5.2; Lines 30; 29
6	Jun-16	1,613,144,496	3,149	1,613,141,347	Workpaper No. 5; Page 5.2; Lines 30; 29
7	Jul-16	1,781,127,633	3,197	1,781,124,436	Workpaper No. 5; Page 5.2; Lines 30; 29
8	Aug-16	1,776,122,022	3,020	1,776,119,002	Workpaper No. 5; Page 5.2; Lines 30; 29
9	Sep-16	1,937,642,729	3,179	1,937,639,550	Workpaper No. 5; Page 5.2; Lines 30; 29
10	Oct-16	1,694,614,387	3,033	1,694,611,354	Workpaper No. 5; Page 5.2; Lines 30; 29
11	Nov-16	1,612,917,043	3,062	1,612,913,981	Workpaper No. 5; Page 5.2; Lines 30; 29
12	Dec-16	1,665,936,489	3,177	1,665,933,312	Workpaper No. 5; Page 5.2; Lines 30; 29
13					
14					
15	Total	20,013,263,143	37,274	20,013,225,869	Sum Lines 1 thru 12
Notes:					
<sup>1</sup> Escondido Mutual sales are excluded from the KWh total because they are classified as sales to wholesale customers not retail.					
Forecast sales are included to develop Statements BG and BH, Revenues at Proposed and Present Rates respectively.					

# San Diego Gas & Electric Company

## Attachment D – (Cont'd)

### B. Statement BG - Revenue Data to Reflect Changed Rates

ER16-\_\_\_\_\_-000

Statement BG  
 SAN DIEGO GAS & ELECTRIC COMPANY  
 Comparison of Transmission Access Charge Balancing Account (TACBAA) Revenues During the Rate Effective Period @ Forecast Billing Determinants  
 For Rate Effective Period Twelve Months Ending January 1, 2016 through December 31, 2016  
 (\$000)

Line No.	Customer Classes	(a)	(b)	(c) = (a) - (b)		(d) = (c)/(b)	Reference	Line No.
		(Statement BG) 2016 TACBA Revenues @ Proposed Rates	(Statement BH) 2016 TACBA Revenues @ Present Rates	(\$ Change)		(%) Increase/(Decrease)		
1	Residential Customers	\$ (66,827,983)	\$ (104,389,920)	\$ 37,561,937		35.98%	Statement BG; Page 2 of 4; Line 1	1
2							Statement BH; Page 1 of 3; Line 1	2
3	Small Commercial Customers	\$ (16,753,438)	\$ (26,170,024)	\$ 9,416,586		35.98%	Statement BG; Page 2 of 4; Line 3	3
4							Statement BH; Page 1 of 3; Line 3	4
5	Medium-Large Commercial Customers	\$ (86,989,752)	\$ (135,883,991)	\$ 48,894,239		35.98%	Statement BG; Page 2 of 4; Line 5	5
6							Statement BH; Page 1 of 3; Line 5	6
7	Agriculture (PA and TOU-PA)	\$ (723,512)	\$ (1,130,174)	\$ 406,662		35.98%	Statement BG; Page 2 of 4; Line 7	7
8							Statement BH; Page 1 of 3; Line 7	8
9	Agriculture (PA-T-1)	\$ (2,030,139)	\$ (3,171,218)	\$ 1,141,079		35.98%	Statement BG; Page 2 of 4; Line 9	9
10							Statement BH; Page 1 of 3; Line 9	10
11	Street Lighting Customers	\$ (790,244)	\$ (1,234,413)	\$ 444,169		35.98%	Statement BG; Page 2 of 4; Line 11	11
12							Statement BH; Page 1 of 3; Line 11	12
13	Grand Total	\$ (174,115,068)	\$ (271,979,740)	\$ 97,864,672		35.98%	Sum Lines 1 through 11	13



Statement BG

SAN DIEGO GAS AND ELECTRIC COMPANY

Transmission Access Charge Balancing Account (TACBAA) Revenue Data To Reflect Changed Rates

For the Rate Effective Period - Twelve Months Ending January 1, 2016 through December 31, 2016

Line No.	(A) Jan-16	(B) Feb-16	(C) Mar-16	(D) Apr-16	(E) May-16	(F) Jun-16	(G) Jul-16	(H) Aug-16	(I) Sep-16	(J) Oct-16	(K) Nov-16	(L) Dec-16	(M) Total
1	Residential Customers <sup>1</sup>	\$ (6,328,553)	\$ (5,540,092)	\$ (5,306,421)	\$ (4,858,403)	\$ (4,807,424)	\$ (5,799,186)	\$ (5,940,647)	\$ (6,598,218)	\$ (5,514,348)	\$ (5,180,174)	\$ (5,901,694)	\$ (66,827,983)
2													
3	Small Commercial <sup>2</sup>	(1,394,884)	(1,337,172)	(1,320,188)	(1,280,755)	(1,309,050)	(1,501,513)	(1,489,454)	(1,608,395)	(1,432,499)	(1,346,386)	(1,360,217)	(16,753,438)
4													
5	Medium-Large Commercial <sup>3</sup>	(7,020,585)	(6,803,762)	(6,707,746)	(6,748,655)	(6,998,520)	(7,827,464)	(7,667,548)	(8,277,063)	(7,470,473)	(7,218,072)	(6,978,058)	(86,989,752)
6													
7	Agriculture (PA and TOU-PA) <sup>4</sup>	(39,848)	(40,324)	(40,693)	(49,009)	(59,391)	(80,896)	(79,699)	(85,002)	(70,973)	(58,507)	(47,040)	(723,512)
8													
9	Agriculture (PA-T-1) <sup>5</sup>	(125,483)	(124,748)	(124,505)	(141,808)	(171,323)	(219,419)	(210,855)	(221,462)	(190,192)	(163,584)	(138,518)	(2,030,139)
10													
11	Street Lighting <sup>6</sup>	(68,716)	(65,264)	(65,204)	(63,643)	(63,997)	(67,305)	(64,032)	(67,325)	(64,634)	(65,628)	(68,093)	(790,244)
12													
13	GRAND TOTAL	\$ (14,978,069)	\$ (13,911,362)	\$ (13,564,757)	\$ (13,142,273)	\$ (13,409,705)	\$ (15,495,783)	\$ (15,452,235)	\$ (16,857,465)	\$ (14,743,119)	\$ (14,032,351)	\$ (14,493,620)	\$ (174,115,068)
	Notes:												
1	See pages 3 of 4 and 4 of 4 for detailed calculation of Residential Customer revenues that reflect that changed rates.												
2	See pages 3 of 4 and 4 of 4 for detailed calculation of Small Commercial Customer revenues that reflect that changed rates.												
3	See pages 3 of 4 and 4 of 4 for detailed calculation of Medium and Large Commercial Customer revenues that reflect that changed rates.												
4	See pages 3 of 4 and 4 of 4 for detailed calculation of Agriculture (PA and TOU-PA) Customer revenues that reflect that changed rates.												
5	See pages 3 of 4 and 4 of 4 for detailed calculation of Agriculture (PA-T-1) Customer revenues that reflect that changed rates.												
6	See pages 3 of 4 and 4 of 4 for detailed calculation of Street Lighting Customer revenues that reflect that changed rates.												



Statement BG

SAN DIEGO GAS AND ELECTRIC COMPANY

Transmission Access Charge Balancing Account Adjustment (TACBAA) Revenue Data To Reflect Changed Rates

For the Rate Effective Period Twelve Months Ending January 1, 2016 through December 31, 2016

Line No.	Customer Classes	(H) Jul-16 Energy (kWh)	(I) Aug-16 Energy (kWh)	(J) Sep-16 Energy (kWh)	(K) Oct-16 Energy (kWh)	(L) Nov-16 Energy (kWh)	(M) Dec-16 Energy (kWh)	(N) Total Energy (kWh)	(O) Reference	Line No.
1	Residential Customers	666,573,134	682,853,044	758,415,886	633,833,086	595,422,269	678,355,670	7,681,377,391	Work Paper No. 5; Page 5.2; Line 23	1
2										2
3	Small Commercial	172,587,689	171,201,558	184,872,950	164,655,053	154,757,034	156,346,731	1,925,682,495	Work Paper No. 5; Page 5.2; Line 24	3
4										4
5	Medium-Large Commercial	899,708,532	881,327,324	951,386,527	858,675,091	829,663,454	802,075,681	9,998,822,077	Work Paper No. 5; Page 5.2; Line 25	5
6										6
7	Agriculture (PA and TOU-PA)	9,298,378	9,160,827	9,770,347	8,157,777	6,724,985	5,406,853	83,162,105	Work Paper No. 5; Page 5.2; Line 26	7
8										8
9	Agriculture (PA-T-1)	25,220,539	24,236,237	25,455,368	21,861,203	18,802,814	15,921,635	233,349,370	Work Paper No. 5; Page 5.2; Line 27	9
10										10
11	Street Lighting	7,736,164	7,360,012	7,738,471	7,429,144	7,543,424	7,826,742	90,832,430	Work Paper No. 5; Page 5.2; Line 28	11
12										12
13	TOTAL	1,781,124,436	1,776,119,002	1,937,639,550	1,694,611,354	1,612,913,981	1,665,933,312	20,013,225,869	Sum Lines 1 - 11	13
14										14
15										15
16										16
17										17
18										18
19	Residential Customers	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	Statement BK-BL; Page 1; Line 19	19
20										20
21	Small Commercial	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	Statement BK-BL; Page 1; Line 19	21
22										22
23	Medium-Large Commercial	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	Statement BK-BL; Page 1; Line 19	23
24										24
25	Agriculture (PA and TOU-PA)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	Statement BK-BL; Page 1; Line 19	25
26										26
27	Agriculture (PA-T-1)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	Statement BK-BL; Page 1; Line 19	27
28										28
29	Street Lighting	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	\$ (0.00870)	Statement BK-BL; Page 1; Line 19	29
30										30
31										31
32										32
33										33
34	Residential Customers	\$ (5,799,186)	\$ (5,940,647)	\$ (6,598,218)	\$ (5,514,348)	\$ (5,180,174)	\$ (5,901,694)	\$ (66,827,983)	Line 1 x Line 19	34
35										35
36	Small Commercial	\$ (1,501,513)	\$ (1,489,454)	\$ (1,608,395)	\$ (1,432,499)	\$ (1,346,386)	\$ (1,360,217)	\$ (16,753,438)	Line 3 x Line 21	36
37										37
38	Medium-Large Commercial	\$ (7,827,464)	\$ (7,667,548)	\$ (8,277,063)	\$ (7,470,473)	\$ (7,218,072)	\$ (6,978,058)	\$ (86,989,752)	Line 5 x Line 23	38
39										39
40	Agriculture (PA and TOU-PA)	\$ (80,896)	\$ (79,699)	\$ (85,002)	\$ (70,973)	\$ (58,507)	\$ (47,040)	\$ (723,512)	Line 7 x Line 25	40
41										41
42	Agriculture (PA-T-1)	\$ (219,419)	\$ (210,855)	\$ (221,462)	\$ (190,192)	\$ (163,584)	\$ (138,518)	\$ (2,030,139)	Line 9 x Line 27	42
43										43
44	Street Lighting	\$ (67,305)	\$ (64,032)	\$ (67,325)	\$ (64,634)	\$ (65,628)	\$ (68,093)	\$ (790,244)	Line 11 x Line 29	44
45										45
46	TOTAL	\$ (15,495,783)	\$ (15,452,235)	\$ (16,857,465)	\$ (14,743,119)	\$ (14,032,351)	\$ (14,493,620)	\$ (174,115,068)	Sum Lines 34 through 44	46

# San Diego Gas & Electric Company

## Attachment D – (Cont'd)

### C. Statement BH - Revenue Data to Reflect Present Rates

ER16-\_\_\_\_\_-000

Statement BH

SAN DIEGO GAS AND ELECTRIC COMPANY

Transmission Access Charge Balancing Account Adjustment (TACBAA) Revenue Data To Reflect Present Rates

For the Rate Effective Period - Twelve Months Ending January 1, 2016 through December 31, 2016

Line No.	Customer Class	(A) Jan-16	(B) Feb-16	(C) Mar-16	(D) Apr-16	(E) May-16	(F) Jun-16	(G) Jul-16	(H) Aug-16	(I) Sep-16	(J) Oct-16	(K) Nov-16	(L) Dec-16	(M) Total
1	Residential Customers <sup>1</sup>	\$ (9,885,636)	\$ (8,654,006)	\$ (8,288,995)	\$ (7,589,161)	\$ (7,509,527)	\$ (7,892,858)	\$ (9,058,729)	\$ (9,279,701)	\$ (10,306,872)	\$ (8,613,792)	\$ (8,091,789)	\$ (9,218,854)	\$ (104,389,920)
2		(2,178,905)	(2,088,755)	(2,062,225)	(2,000,628)	(2,044,826)	(2,144,604)	(2,345,467)	(2,326,629)	(2,512,423)	(2,237,662)	(2,103,148)	(2,124,752)	(26,170,024)
3	Small Commercial <sup>2</sup>	(10,966,638)	(10,627,945)	(10,477,961)	(10,541,865)	(10,932,171)	(11,359,063)	(12,227,039)	(11,977,238)	(12,929,343)	(11,669,394)	(11,275,126)	(10,900,208)	(135,883,991)
4		(62,245)	(62,988)	(63,566)	(76,555)	(92,772)	(112,672)	(126,365)	(124,496)	(132,779)	(110,864)	(91,393)	(73,479)	(1,130,174)
5	Medium-Large Commercial <sup>3</sup>	(196,013)	(194,865)	(194,486)	(221,514)	(267,618)	(309,668)	(342,747)	(329,370)	(345,938)	(297,094)	(255,530)	(216,375)	(3,171,218)
6	Agriculture (PA-T-1) <sup>5</sup>	(107,340)	(101,946)	(101,853)	(99,415)	(99,968)	(103,726)	(105,134)	(100,023)	(105,166)	(100,962)	(102,515)	(106,365)	(1,234,413)
7		(23,396,777)	(21,730,505)	(21,189,086)	(20,529,138)	(20,946,882)	(21,922,591)	(24,205,481)	(24,137,457)	(26,332,521)	(23,029,768)	(21,919,501)	(22,640,033)	(271,979,740)
8	Street Lighting <sup>6</sup>													
9														
10														
11														
12														
13	GRAND TOTAL													

Notes:  
<sup>1</sup> See pages 2 of 3 and 3 of 3 for detailed calculation of Residential Customer revenues that reflect that changed rates.  
<sup>2</sup> See pages 2 of 3 and 3 of 3 for detailed calculation of Small Commercial Customer revenues that reflect that changed rates.  
<sup>3</sup> See pages 2 of 3 and 3 of 3 for detailed calculation of Medium and Large Commercial Customer revenues that reflect that changed rates.  
<sup>4</sup> See pages 2 of 3 and 3 of 3 for detailed calculation of Agriculture (PA and TOU-PA) Customer revenues that reflect that changed rates.  
<sup>5</sup> See pages 2 of 3 and 3 of 3 for detailed calculation of Agriculture (PA-T-1) Customer revenues that reflect that changed rates.  
<sup>6</sup> See pages 2 of 3 and 3 of 3 for detailed calculation of Street Lighting Customer revenues that reflect that changed rates.

Statement BH

SAN DIEGO GAS AND ELECTRIC COMPANY

Transmission Access Charge Balancing Account Adjustment (TACBAA) Revenue Data To Reflect Present Rates  
For the Rate Effective Period - Twelve Months Ending January 1, 2016 through December 31, 2016

Line No.	(A) Jan-16 Energy (kWh)	(B) Feb-16 Energy (kWh)	(C) Mar-16 Energy (kWh)	(D) Apr-16 Energy (kWh)	(E) May-16 Energy (kWh)	(F) Jun-16 Energy (kWh)	(F) Reference	Line No.
1	727,419,849	636,792,165	609,933,415	558,437,152	552,577,446	580,784,274	Work Paper No. 5, Page 5.2; Line 23	1
2	160,331,520	153,697,926	151,745,769	147,213,246	150,465,496	157,807,522	Work Paper No. 5, Page 5.2; Line 24	2
3	806,963,765	782,041,552	771,005,238	775,707,508	804,427,595	835,839,811	Work Paper No. 5, Page 5.2; Line 25	3
4	4,580,174	4,634,909	4,677,383	5,633,199	6,826,506	8,290,769	Work Paper No. 5, Page 5.2; Line 26	4
5	14,423,292	14,338,852	14,310,957	16,299,756	19,692,252	22,786,463	Work Paper No. 5, Page 5.2; Line 27	5
6	7,898,431	7,501,561	7,494,706	7,315,289	7,355,977	7,632,508	Work Paper No. 5, Page 5.2; Line 28	6
7	1,721,617,031	1,599,006,965	1,559,167,468	1,510,606,150	1,541,345,272	1,613,141,347	Sum Lines 1 - 11	7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29								29
30								30
31								31
32								32
33								33
34								34
35								35
36								36
37								37
38								38
39								39
40								40
41								41
42								42
43								43
44								44
45								45
46								46
Customer Classes								
Residential Customers								
Small Commercial								
Medium-Large Commercial								
Agriculture (PA and TOU-PA)								
Agriculture (PA-T-1)								
Street Lighting								
TOTAL								
Residential Customers								
Small Commercial								
Medium-Large Commercial								
Agriculture (PA and TOU-PA)								
Agriculture (PA-T-1)								
Street Lighting								
TOTAL								
Revenues @ Present Rates								
Residential Customers								
Small Commercial								
Medium-Large Commercial								
Agriculture (PA and TOU-PA)								
Agriculture (PA-T-1)								
Street Lighting								
TOTAL								
Revenues @ Present Rates								
Residential Customers								
Small Commercial								
Medium-Large Commercial								
Agriculture (PA and TOU-PA)								
Agriculture (PA-T-1)								
Street Lighting								
TOTAL								



# San Diego Gas & Electric Company

## Attachment – D (Cont'd)

### D. Statement BK & Statement BL (Combined Statements) Retail TACBAA Rate Calculation

ER16-\_\_\_\_\_-000



Statement BK & Statement BL (Combined Statements)			
SAN DIEGO GAS & ELECTRIC COMPANY			
2016 - TACBAA Rate Filing			
Transmission Access Charge Balancing Account Adjustment (TACBAA) Rate Calculation			
Line No.	Components	(a)	Reference
1	Recorded TACBAA Balance @ 10/31/15	\$ 69,525,863	Workpaper No. 1; Pages 1.4; Line 28
2			
3	TACBAA Forecast (Nov and Dec 2015)	(1,695,863)	Workpaper No. 2; Page 2.1; Total Col; Line 31
4			
5	Br = TACBAA Balance @ 12/31/15	67,830,000	Line 1 + Line 3
6			
7	Forecasted Net TACBAA Costs	(237,627,654)	Workpaper No. 3; Page 3.1; Col. 6; Line 3
8			
9	Total TACBAA Before FF&U	\$ (169,797,654)	Line 5 + Line 7
10			
11	FF: Franchise Fees @ 1.0310 %	(1,750,614)	Line 9 x 1.0310%
12			
13	U: Uncollectibles @ 0.1740%	(295,448)	Line 9 x 0.1740%
14			
15	Total TACBAA	\$ (171,843,716)	Sum Lines {9 thru 13}
16			
17	S: 12 Months kWh Ending October 31, 2015	19,754,864,687	Statement BD; Page 1 of 2; Column C; Line 15
18			
19	TACBAA Rate (\$/kWh)	\$ (0.00870)	Line 15 / Line 17

# San Diego Gas & Electric Company

## Attachment – D (Cont'd)

### E. Work Papers Applicable to TACBAA Retail Rate Calculation

ER16-\_\_\_\_\_-000

Work Paper – 1  
Monthly TACBAA Detailed Activities

**San Diego Gas & Electric Company**  
**TACBAA Monthly Activities Applicable**  
**For the 12-Month Period Ending October 31, 2015**  
**2016 TACBAA Rate Filing**

Line No.	Description	November 2014	December 2014	January 2015	February 2015
1	Beginning Balance (Overcollection)/Undercollection	\$ 55,421,826	\$ 64,593,040	\$ 74,735,936	\$ 85,719,554
2					
3	TACBAA Refund				
4	Kwh	1,583,002,482	1,585,788,042	1,665,910,282	1,547,755,534
5	TACBAA Rate	\$ (0.01073)	\$ (0.01073)	\$ (0.01216)	\$ (0.01359)
6	Total TRBAA Refund Including Franchise Fees & Uncollectibles	\$ (16,985,617)	\$ (17,015,506)	\$ (20,257,469)	\$ (21,033,998)
7	Franchise Fees & Uncollectible Expense Adjustment	(202,240)	(202,596)	(241,196)	(250,442)
8	Total TACBAA Refund	\$ (16,783,377)	\$ (16,812,910)	\$ (20,016,273)	\$ (20,783,556)
9					
10	Monthly ISO Charge Types (Revenues=Cr.)/Expenses=Dr.:				
11	CT 372 - HVAC Due ISO - Expense	\$ 13,773,893	\$ 11,834,932	\$ 12,353,103	\$ 13,381,417
12					
13	CT 374 - HVAC Due PTO - Revenues	(21,547,479)	(18,698,890)	(21,610,083)	(25,152,298)
14					
15	Total Monthly Related (Revenues)/Expenses:	\$ (7,773,586)	\$ (6,863,958)	\$ (9,256,979)	\$ (11,770,881)
16					
17					
18	Net Monthly Activity (Net of Refunds, Revenues, & Expenses)	\$ 9,009,791	\$ 9,948,952	\$ 10,759,294	\$ 9,012,675
19					
20	Interest Expense Calculations:				
21	Beginning Balance for Interest Calculation	\$ 44,920,366	\$ 44,920,366	\$ 74,735,936	\$ 74,735,936
22	Monthly Activity Included in Interest Calculation Basis	14,866,073	24,345,444	5,379,647	15,265,631
23	Basis for Interest Expense Calculation	59,786,439	69,265,810	80,115,583	90,001,567
24	Monthly Interest Rate	0.27000%	0.28000%	0.28000%	0.25000%
25	Interest Expense	\$ 161,423	\$ 193,944	\$ 224,324	\$ 225,004
26	Other Adjustments:				
27					
28	<b>Ending Balance (Overcollection)/Undercollection</b>	<b>\$ 64,593,040</b>	<b>\$ 74,735,936</b>	<b>\$ 85,719,554</b>	<b>\$ 94,957,233</b>
29					
30					
31	<b>Franchise Fees &amp; Uncollectible Adjustment:</b>				
32	Franchise Fees Expense Rate	1.0310%	1.0310%	1.0310%	1.0310%
33	Uncollectible Expense Adjustment Rate	0.1740%	0.1740%	0.1740%	0.1740%
34	Combined FF&U Adjustment Rate	1.2050%	1.2050%	1.2050%	1.2050%
35	Total (Refunds)/Collections Including Franchise Fees & Uncollectibles	\$ (16,985,617)	\$ (17,015,506)	\$ (20,257,469)	\$ (21,033,998)
36	Uncollectibles Included on Line 7 Above:				
37	Total Refunds/Collections Including Uncollectible Expense	\$ (16,985,617)	\$ (17,015,506)	\$ (20,257,469)	\$ (21,033,998)
38	Adjustment Factor to Convert Line 34 Above Before Uncollectible	1.012050	1.012050	1.012050	1.012050
39	Total Refunds/Collections Before Uncollectible Expense	\$ (16,783,377)	\$ (16,812,910)	\$ (20,016,273)	\$ (20,783,556)
40	Uncollectible Rate	1.2050%	1.2050%	1.2050%	1.2050%
41	Uncollectible Adjustment	\$ (202,240)	\$ (202,596)	\$ (241,196)	\$ (250,442)
42	Difference	\$ -	\$ -	\$ -	\$ -

**San Diego Gas & Electric Company**  
**TACBAA Monthly Activities Applicable**  
**For the 12-Month Period Ending October 31, 2015**  
**2016 TACBAA Rate Filing**

Line No.	Description	March 2015	April 2015	May 2015	June 2015
1	Beginning Balance (Overcollection)/Undercollection	\$ 94,957,233	\$ 95,352,068	\$ 80,743,929	\$ 77,069,812
2					
3	TACBAA Refund				
4	Kwh	1,486,100,698	1,529,437,074	1,501,100,754	1,443,047,056
5	TACBAA Rate	\$ (0.01359)	\$ (0.01359)	\$ (0.01359)	\$ (0.01359)
6	Total TRBAA Refund Including Franchise Fees & Uncollectibles	\$ (20,196,108)	\$ (20,785,050)	\$ (20,399,959)	\$ (19,611,009)
7	Franchise Fees & Uncollectible Expense Adjustment	(240,465)	(247,478)	(242,893)	(233,499)
8	Total TACBAA Refund	\$ (19,955,643)	\$ (20,537,572)	\$ (20,157,066)	\$ (19,377,510)
9					
10	Monthly ISO Charge Types (Revenues=Cr.)/Expenses=Dr.:				
11	CT 372 - HVAC Due ISO - Expense	\$ 12,473,666	\$ 17,307,776	\$ 14,932,082	\$ 15,672,988
12					
13	CT 374 - HVAC Due PTO - Revenues	(32,299,278)	(52,690,896)	(38,983,232)	(37,360,248)
14					
15	Total Monthly Related (Revenues)/Expenses:	\$ (19,825,612)	\$ (35,383,120)	\$ (24,051,150)	\$ (21,687,260)
16					
17					
18	Net Monthly Activity (Net of Refunds, Revenues, & Expenses)	\$ 130,031	\$ (14,845,548)	\$ (3,894,084)	\$ (2,309,750)
19					
20	Interest Expense Calculations:				
21	Beginning Balance for Interest Calculation	\$ 74,735,936	\$ 95,352,068	\$ 95,352,068	\$ 95,352,068
22	Monthly Activity Included in Interest Calculation Basis	19,836,984	(7,422,774)	(16,792,590)	(19,894,507)
23	Basis for Interest Expense Calculation	94,572,920	87,929,294	78,559,478	75,457,561
24	Monthly Interest Rate	0.28000%	0.27000%	0.28000%	0.27000%
25	Interest Expense	\$ 264,804	\$ 237,409	\$ 219,967	\$ 203,735
26	Other Adjustments:				
27					
28	<b>Ending Balance (Overcollection)/Undercollection</b>	<b>\$ 95,352,068</b>	<b>\$ 80,743,929</b>	<b>\$ 77,069,812</b>	<b>\$ 74,963,797</b>
29					
30					
31	<b>Franchise Fees &amp; Uncollectible Adjustment:</b>				
32	Franchise Fees Expense Rate	1.0310%	1.0310%	1.0310%	1.0310%
33	Uncollectible Expense Adjustment Rate	0.1740%	0.1740%	0.1740%	0.1740%
34	Combined FF&U Adjustment Rate	1.2050%	1.2050%	1.2050%	1.2050%
35	Total (Refunds)/Collections Including Franchise Fees & Uncollectibles	\$ (20,196,108)	\$ (20,785,050)	\$ (20,399,959)	\$ (19,611,009)
36	Uncollectibles Included on Line 7 Above:				
37	Total Refunds/Collections Including Uncollectible Expense	\$ (20,196,108)	\$ (20,785,050)	\$ (20,399,959)	\$ (19,611,009)
38	Adjustment Factor to Convert Line 34 Above Before Uncollectible	1.012050	1.012050	1.012050	1.012050
39	Total Refunds/Collections Before Uncollectible Expense	\$ (19,955,643)	\$ (20,537,572)	\$ (20,157,066)	\$ (19,377,510)
40	Uncollectible Rate	1.2050%	1.2050%	1.2050%	1.2050%
41	Uncollectible Adjustment	\$ (240,465)	\$ (247,478)	\$ (242,893)	\$ (233,499)
42	Difference	\$ -	\$ -	\$ -	\$ -

**San Diego Gas & Electric Company**  
**TACBAA Monthly Activities Applicable**  
**For the 12-Month Period Ending October 31, 2015**  
**2016 TACBAA Rate Filing**

Line No.	Description	July 2015	August 2015	September 2015	October 2015
1	Beginning Balance (Overcollection)/Undercollection	\$ 74,963,797	\$ 75,601,827	\$ 73,719,306	\$ 71,093,122
2					
3	TACBAA Refund				
4	Kwh	1,746,688,223	1,779,921,852	1,934,883,872	1,951,228,818
5	TACBAA Rate	\$ (0.01359)	\$ (0.01359)	\$ (0.01359)	\$ (0.01359)
6	Total TRBAA Refund Including Franchise Fees & Uncollectibles	\$ (23,737,493)	\$ (24,189,138)	\$ (26,295,072)	\$ (26,517,200)
7	Franchise Fees & Uncollectible Expense Adjustment	(282,631)	(288,009)	(313,083)	(315,728)
8	Total TACBAA Refund	\$ (23,454,862)	\$ (23,901,129)	\$ (25,981,989)	\$ (26,201,472)
9					
10	Monthly ISO Charge Types (Revenues=Cr.)/Expenses=Dr.:				
11	CT 372 - HVAC Due ISO - Expense	\$ 16,721,042	\$ 18,609,279	\$ 20,039,998	\$ 20,050,482
12					
13	CT 374 - HVAC Due PTO - Revenues	(39,748,371)	(44,601,098)	(48,842,275)	(48,015,803)
14					
15	Total Monthly Related (Revenues)/Expenses:	\$ (23,027,329)	\$ (25,991,819)	\$ (28,802,277)	\$ (27,965,322)
16					
17					
18	Net Monthly Activity (Net of Refunds, Revenues, & Expenses)	\$ 427,533	\$ (2,090,690)	\$ (2,820,288)	\$ (1,763,850)
19					
20	Interest Expense Calculations:				
21	Beginning Balance for Interest Calculation	\$ 74,963,797	\$ 74,963,797	\$ 74,963,797	\$ 71,093,122
22	Monthly Activity Included in Interest Calculation Basis	213,767	(617,812)	(3,073,301)	(881,925)
23	Basis for Interest Expense Calculation	75,177,564	74,345,985	71,890,496	70,211,197
24	Monthly Interest Rate	0.28000%	0.28000%	0.27000%	0.28000%
25	Interest Expense	\$ 210,497	\$ 208,169	\$ 194,104	\$ 196,591
26	Other Adjustments:				
27					
28	<b>Ending Balance (Overcollection)/Undercollection</b>	<b>\$ 75,601,827</b>	<b>\$ 73,719,306</b>	<b>\$ 71,093,122</b>	<b>\$ 69,525,863</b>
29					
30					
31	<b>Franchise Fees &amp; Uncollectible Adjustment:</b>				
32	Franchise Fees Expense Rate	1.0310%	1.0310%	1.0310%	1.0310%
33	Uncollectible Expense Adjustment Rate	0.1740%	0.1740%	0.1740%	0.1740%
34	Combined FF&U Adjustment Rate	1.2050%	1.2050%	1.2050%	1.2050%
35	Total (Refunds)/Collections Including Franchise Fees & Uncollectibles	\$ (23,737,493)	\$ (24,189,138)	\$ (26,295,072)	\$ (26,517,200)
36	Uncollectibles Included on Line 7 Above:				
37	Total Refunds/Collections Including Uncollectible Expense	\$ (23,737,493)	\$ (24,189,138)	\$ (26,295,072)	\$ (26,517,200)
38	Adjustment Factor to Convert Line 34 Above Before Uncollectible	1.012050	1.012050	1.012050	1.012050
39	Total Refunds/Collections Before Uncollectible Expense	\$ (23,454,862)	\$ (23,901,129)	\$ (25,981,989)	\$ (26,201,472)
40	Uncollectible Rate	1.2050%	1.2050%	1.2050%	1.2050%
41	Uncollectible Adjustment	\$ (282,631)	\$ (288,009)	\$ (313,083)	\$ (315,728)
42	Difference	\$ -	\$ -	\$ -	\$ -

**San Diego Gas & Electric Company**  
**TACBAA Monthly Activities Applicable**  
**For the 12-Month Period Ending October 31, 2015**  
**2016 TACBAA Rate Filing**

Line No.	Description	Total	Reference	Line No.
1	Beginning Balance (Overcollection)/Undercollection	\$ 55,421,826	Previous Month's Balance	1
2				2
3	TACBAA Refund			3
4	Kwh	19,754,864,687	Work Paper No. 5; Page 5.1; Line 32	4
5	TACBAA Rate		TACBAA Rates; ER15-679-000	5
6	Total TRBAA Refund Including Franchise Fees & Uncollectibles	\$(257,023,619)	Line 4 x Line 5	6
7	Franchise Fees & Uncollectible Expense Adjustment	(3,060,260)	See Line 41 Below	7
8	Total TACBAA Refund	\$(253,963,359)	Line 6 / Line 38	8
9				9
10	Monthly ISO Charge Types (Revenues=Cr.)/Expenses=Dr.:			10
11	CT 372 - HVAC Due ISO - Expense	\$ 187,150,658	CT 372 - HVAC Due ISO	11
12				12
13	CT 374 - HVAC Due PTO - Revenues	(429,549,951)	CT 374 - HVAC Due PTO	13
14				14
15	Total Monthly Related (Revenues)/Expenses:	\$(242,399,293)	Sum Lines 11 through 13	15
16				16
17				17
18	Net Monthly Activity (Net of Refunds, Revenues, & Expenses)	\$ 11,564,066	Minus Line 8 + Line 15	18
19				19
20	Interest Expense Calculations:			20
21	Beginning Balance for Interest Calculation		Beginning Quarterly Balances	21
22	Monthly Activity Included in Interest Calculation Basis		Interest Calculation Basis	22
23	Basis for Interest Expense Calculation		Line 21 + Line 22	23
24	Monthly Interest Rate		FERC Monthly Rates	24
25	Interest Expense	\$ 2,539,971	Line 23 x Line 24	25
26	Other Adjustments:	-	Adjustment	26
27				27
28	<b>Ending Balance (Overcollection)/Undercollection</b>	<b>\$ 69,525,863</b>	Line 1 + Line 18 + Line 25 + Line 26	28
29				29
30				30
31	<b><u>Franchise Fees &amp; Uncollectible Adjustment:</u></b>			31
32	Franchise Fees Expense Rate			32
33	Uncollectible Expense Adjustment Rate			33
34	Combined FF&U Adjustment Rate		Franchise Fees & Uncollectible Rate	34
35	Total (Refunds)/Collections Including Franchise Fees & Uncollectibles		See Line 6 Above	35
36	Uncollectibles Included on Line 7 Above:			36
37	Total Refunds/Collections Including Uncollectible Expense		See Line 35 Above	37
38	Adjustment Factor to Convert Line 34 Above Before Uncollectible		100% + Line 34	38
39	Total Refunds/Collections Before Uncollectible Expense		Line 37 / Line 38	39
40	Uncollectible Rate		See Line 34 Above	40
41	Uncollectible Adjustment	\$ (3,060,260)	Line 39 x Line 40	41
42	Difference	\$ -		42

Work Paper – 2  
Projected Change for the Remaining  
Months of the Year  
(November & December 2015)



**San Diego Gas & Electric Company**  
**2016 TACBAA Rate Filing**  
**Projected Change for the Remaining Months of the Year (November & December 2015)**

Line No.	Description	Forecast			Reference	Line No.
		November 2015	December 2015	Total		
1	Beginning Balance (Overcollection)/Undercollection	\$ 69,525,863	\$ 66,379,657	\$ 69,525,863	Previous Month's Balance	1
2						2
3	TACBAA Refund					3
4	Kwh	1,695,441,449	1,670,341,779	3,365,783,228	Forecast Sales in Nov & Dec 2015 from 2014 TACBAA ER15-679 filing; WP 4; Page 2; Line 32 / Page 2.2	4
5	TACBAA Rate	\$ (0.01359)	\$ (0.01359)		TACBAA Rates; ER15-679-000	5
6	Total TRBAA Refund Including Franchise Fees & Uncollectible	\$ (23,041,049)	\$ (22,699,945)	\$ (45,740,994)	Line 4 x Line 5	6
7	Franchise Fees & Uncollectible Expense Adjustment	(274,339)	(270,277)	(544,616)	See Line 44 Below	7
8	Total TACBAA Refund	\$ (22,766,710)	\$ (22,429,668)	\$ (45,196,378)	Line 6 / Line 41	8
9						9
10	Monthly ISO Charge Types (Revenues=Cr.)/Expenses=Dr.:					10
11	CT 372 - HVAC Due ISO - Expense	\$ 18,718,633	\$ 16,300,000	\$ 35,018,633	Estimated CT 372 - HVAC Due ISO	11
12						12
13	CT 374 - HVAC Due PTO - Revenues	(44,814,244)	(37,465,895)	(82,280,139)	Estimated CT 374 - HVAC Due PTO	13
14						14
15	Total Monthly Related (Revenues)/Expenses:	\$ (26,095,611)	\$ (21,165,895)	\$ (47,261,506)	Sum Lines 11 through 13	15
16						16
17						17
18	Net Monthly Activity (Net of Refunds, Revenues, & Expenses)	\$ (3,328,901)	\$ 1,263,773	\$ (2,065,128)	Minus Line 8 + Line 15	18
19						19
20	Interest Expense Calculations:					20
21	Beginning Balance for Interest Calculation	\$ 71,093,122	\$ 71,093,122		Beginning Quarterly Balances	21
22	Monthly Activity Included in Interest Calculation Basis	(3,428,300)	(4,460,864)		Interest Calculation Basis	22
23	Basis for Interest Expense Calculation	67,664,822	66,632,258		Line 21 + Line 22	23
24	Monthly Interest Rate	0.27000%	0.28000%		FERC Monthly Rates	24
25	Interest Expense	\$ 182,695	\$ 186,570	\$ 369,265	Line 23 x Line 24	25
26	Other Adjustments:			-	Adjustment	26
27						27
28	<b>Estimated Ending Balance (Overcollection)/Undercollection Forecast</b>	<b>\$ 66,379,657</b>	<b>\$ 67,830,000</b>	<b>\$ 67,830,000</b>	Line 1 + Line 18 + Line 25 + Line 26	28
29						29
30						30
31	<b>Net Monthly Activity Forecast</b>	<b>\$ (3,146,206)</b>	<b>\$ 1,450,343</b>	<b>\$ (1,695,863)</b>	Line 18 + Line 25	31
32						32
33						33
34	<b>Franchise Fees &amp; Uncollectible Adjustment:</b>					34
35	Franchise Fees Expense Rate	1.0310%	1.0310%			35
36	Uncollectible Expense Adjustment Rate	0.1740%	0.1740%			36
37	Combined FF&U Adjustment Rate	1.2050%	1.2050%		Franchise Fees & Uncollectible Rate	37
38	Total (Refunds)/Collections Including Franchise Fees & Uncollectible	\$ (23,041,049)	\$ (22,699,945)		See Line 6 Above	38
39	Uncollectibles Included on Line 7 Above:					39
40	Total Refunds/Collections Including Uncollectible Expense	\$ (23,041,049)	\$ (22,699,945)		See Line 38 Above	40
41	Adjustment Factor to Convert Line B Above Before Uncollectible	1.012050	1.012050		100% + Line 37	41
42	Total Refunds/Collections Before Uncollectible Expense	\$ (22,766,710)	\$ (22,429,668)		Line 40 / Line 41	42
43	Uncollectible Rate	1.2050%	1.2050%		See Line 37 Above	43
44	Uncollectible Adjustment	\$ (274,339)	\$ (270,277)	\$ (544,616)	Line 42 x Line 43	44
45	Difference	\$ -	\$ -	\$ -		45

Line No.	System Delivery Determinants	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
1	Customer Class Deliveries (MWh)	729,926	638,937	611,731	559,979	553,684	581,798	667,872	684,171	738,524	693,907	595,886	678,987	7,695,401
2	Residential	160,920	154,282	152,343	147,795	151,066	158,444	173,277	171,880	185,635	165,367	155,471	157,136	1,933,615
3	Small Commercial	808,069	783,347	772,638	777,216	806,130	837,856	901,764	883,250	955,447	862,089	832,554	805,053	10,025,413
4	Med. & Large Comm./Ind.	4,566	4,620	4,663	5,616	6,806	8,267	9,272	9,135	9,743	8,135	6,706	5,392	82,920
5	Agriculture (PA)	14,372	14,290	14,260	16,240	19,621	22,703	25,128	24,147	25,364	21,785	18,738	15,865	232,513
6	Agriculture (PA-T-1)	7,990	7,592	7,588	7,404	7,444	7,722	7,828	7,445	7,828	7,512	7,628	7,909	91,891
7	Lighting	3.2	3.1	3.1	3.0	3.0	3.1	3.2	3.0	3.0	3.0	3.1	3.2	37.3
8	Sale for Resale	1,725,846	1,603,071	1,563,226	1,514,253	1,544,754	1,616,793	1,785,145	1,780,029	1,942,544	1,698,799	1,616,986	1,670,345	20,061,791
9	Total System	1,725,842	1,603,068	1,563,223	1,514,250	1,544,751	1,616,790	1,785,142	1,780,026	1,942,541	1,698,796	1,616,983	1,670,342	20,061,784
10	Total System - EXCLUDING Sale for Resale													
11	INPUT FROM FORECAST:													
12	Medium & Large Details - Deliveries in MWh													
13	Med & Large CI (AD)	3,186	3,156	3,181	3,053	3,149	3,277	3,425	3,460	3,783	3,350	3,100	2,997	39,115
14	Med & Large CI (AL+AY+DGR)	741,628	725,591	718,633	716,756	741,382	776,715	833,549	818,079	883,913	798,693	762,428	737,323	9,254,692
15	Med & Large CI (A6)	63,255	54,600	50,824	57,408	61,595	67,864	64,790	61,711	67,751	60,046	67,026	64,732	731,606
16	Total	808,069	783,347	772,638	777,216	806,130	837,856	901,764	883,250	955,447	862,089	832,554	805,053	10,025,413
17														
18														
19														
20														
21	System Delivery Determinants													
22	Customer Class Deliveries (MWh)	729,926	638,937	611,731	559,979	553,683	581,798	667,871	684,170	738,523	693,906	595,885	678,987	7,695,400
23	Residential	160,919	154,281	152,343	147,794	151,065	158,444	173,277	171,879	185,634	165,367	155,470	157,135	1,933,615
24	Small Commercial	808,068	783,346	772,638	777,216	806,130	837,855	901,764	883,249	955,447	862,089	832,554	805,052	10,025,413
25	Med. & Large Comm./Ind.	4,566	4,620	4,662	5,616	6,805	8,267	9,272	9,134	9,742	8,134	6,705	5,391	82,920
26	Agriculture (PA)	14,371	14,289	14,259	16,240	19,621	22,703	25,127	24,147	25,364	21,785	18,737	15,864	232,512
27	Agriculture (PA-T-1)	7,990	7,592	7,587	7,403	7,444	7,721	7,828	7,444	7,828	7,512	7,628	7,909	91,891
28	Lighting	3,249	3,068	3,090	3,014	3,037	3,149	3,197	3,020	3,033	3,179	3,062	3,177	37,273
29	Sale for Resale	1,725,845	1,603,071	1,563,226	1,514,252	1,544,754	1,616,793	1,785,144	1,780,029	1,942,543	1,698,798	1,616,985	1,670,344	20,061,790
30	Total System	1,725,842	1,603,068	1,563,223	1,514,250	1,544,751	1,616,790	1,785,142	1,780,026	1,942,541	1,698,796	1,616,983	1,670,342	20,061,784
31	Total System - EXCLUDING Sale for Resale													
32	INPUT FROM FORECAST:													
33	Medium & Large Details - Deliveries in MWh													
34	Med & Large CI (AD)	3,155	3,155	3,180	3,052	3,148	3,276	3,425	3,459	3,783	3,350	3,100	2,997	39,115
35	Med & Large CI (AL+AY+DGR)	741,628	725,590	718,633	716,756	741,382	776,715	833,548	818,078	883,913	798,693	762,428	737,323	9,254,692
36	Med & Large CI (A6)	63,254	54,600	50,824	57,407	61,599	67,864	64,790	61,711	67,750	60,046	67,026	64,732	731,605
37	Total	808,068	783,346	772,638	777,216	806,130	837,855	901,764	883,249	955,447	862,089	832,554	805,052	10,025,413
38														
39														
40														

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12/18/2014

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Work Paper – 3  
CAISO TAC (Benefit) / Burden Calculation

**San Diego Gas & Electric Co.**  
**January 1, 2016 Estimated TAC (Benefit)/Burden Calculations**  
**Based on Filed Annual TRR/TRBA and Load Data**

TAC Components:										
Line No	Filed Annual TRR (\$)	Filed Annual Gross Load (MWh)	HV Utility Specific Rate (\$/MWh)	TAC Rate (\$/MWh)	TAC Amount (\$)	Net TAC (Benefit)/Burden Amount (\$)	Line No			
	[1]	[2]	[3]	[4]	[5]	[6]				
			= [1] / [2]	= total [1] / total [2]	= ([2]) * [4]	= ([5] - [1])				
1	\$ 607,131,854	90,445,937	6.7126	11.1396	\$ 1,007,529,952	\$ 400,398,098	1			
2	\$ 1,004,417,227	90,511,765	11.0971	11.1396	\$ 1,008,263,250	\$ 3,846,023	2			
3	\$ 469,609,354	20,824,991	22.5503	11.1396	\$ 231,981,700	\$ (237,627,654)	3			
4	\$ 29,423,297	2,507,620	11.7336	11.1396	\$ 27,933,839	\$ (1,489,458)	4			
5	\$ 2,347,630	257,416	9.1200	11.1396	\$ 2,867,507	\$ 519,877	5			
6	\$ 1,077,216	144,652	7.4469	11.1396	\$ 1,611,363	\$ 534,147	6			
7	\$ 14,324,992	1,231,980	11.6276	11.1396	\$ 13,723,743	\$ (601,249)	7			
8	\$ 32,665,860	2,180,985	14.9776	11.1396	\$ 24,295,262	\$ (8,370,598)	8			
9	\$ 2,973,458	1,181,728	2.5162	11.1396	\$ 13,163,956	\$ 10,190,498	9			
10	\$ 25,407,824	-	-	11.1396	\$ 0	\$ (25,407,824)	10			
11	\$ 3,587,536	-	-	11.1396	\$ 0	\$ (3,587,536)	11			
12	\$ 120,771,273	-	-	11.1396	\$ 0	\$ (120,771,273)	12			
13	\$ 11,783,984	-	-	11.1396	\$ 0	\$ (11,783,984)	13			
14	\$ 2,888,500	372,179	7.7611	11.1396	\$ 4,145,919	\$ 1,257,419	14			
15	\$ 13,177,224	544,970	24.1797	11.1396	\$ 6,070,738	\$ (7,106,486)	15			
16	\$ 2,341,587,229	210,204,223			\$ 2,341,587,229	\$ 0	16			
17							17			

Work Paper – 4  
CAISO PTO HVTRR Input Form

<b>San Diego Gas &amp; Electric Co.</b>			
<b>2016 Estimated TAC (Benefit)/Burden TRR Inputs</b>			
<b>HIGH VOLTAGE AND LOW VOLTAGE COMPONENTS</b>			<b>Info Only</b>
<b>PTO</b>	<b>Total HV Filed TRR</b>	<b>Total LV Filed TRR</b>	<b>Combined TRR</b>
Base TRR	692,203,501	810,562,618	1,502,766,119
TRBAA	(81,334,295)	(36,872,336)	(118,206,631)
Standby Credit	(3,737,352)	(4,383,032)	(8,120,384)
Total	607,131,854	769,307,250	1,376,439,104
<b>PG&amp;E</b>			
Gross Load	90,445,937	90,445,937	90,445,937
Utility Specific Access Charges (\$/MWh)	6.7126	8.5057	15.2184
TRR - Eff. Date - Docket#	10/1/2015 ER16-42 (TO17)		
TRBA - Eff. Date - Docket#	1/1/2016 ER16-42		
Base TRR	1,045,086,301	40,917,028	1,086,003,329
TRBAA	(30,781,387)	(288,901)	(31,070,288)
Standby Credit	(9,887,687)	(387,121)	(10,274,808)
Total	1,004,417,227	40,241,006	1,044,658,233
<b>SCE</b>			
Gross Load	90,511,765	90,511,765	90,511,765
Utility Specific Access Charges (\$/MWh)	11.0971	0.4446	11.5417
TRR - Eff. Date - Docket#	1/1/2016 ER11-3697 (TO10)		
TRBA - Eff. Date - Docket#	1/1/2016 ER16-175		
Base TRR	492,206,000	303,290,000	795,496,000
TRBAA	(15,731,056)	(205,197)	(15,936,253)
Standby Credit	(6,865,590)	(4,230,474)	(11,096,064)
Total	469,609,354	298,854,329	768,463,683
<b>SDG&amp;E</b>			
Gross Load	20,824,991	20,824,991	20,824,991
Utility Specific Access Charges (\$/MWh)	22.5503	14.3508	36.9010
TRR - Eff. Date - Docket#	1/1/2016 - ER16-445		
TRBA - Eff. Date - Docket#	1/1/2016 - ER16-XXX		
Base TRR	2,973,047		2,973,047
TRBAA	411		411
Standby Credit	-		-
Total	2,973,458		2,973,458
<b>Vernon</b>			
Gross Load	1,181,728		1,181,728
Utility Specific Access Charges (\$/MWh)	2.5162		2.5162
TRR - Eff. Date - Docket#	1/1/2016 NJ16-1		
TRBA - Eff. Date - Docket#	1/1/2016 NJ16-1		
Base TRR	30,000,000		30,000,000
TRBAA	(576,703)		(576,703)
Standby Credit	-		-
Total	29,423,297		29,423,297
<b>Anaheim</b>			
Gross Load	2,507,620		2,507,620
Utility Specific Access Charges (\$/MWh)	11.7336		11.7336
TRR - Eff. Date - Docket#	7/1/2011 ER11-3594		
TRBA - Eff. Date - Docket#	1/1/2015 NJ15-5		

<b>San Diego Gas &amp; Electric Co.</b>			
<b>2016 Estimated TAC (Benefit)/Burden TRR Inputs</b>			
<b>HIGH VOLTAGE AND LOW VOLTAGE COMPONENTS</b>			<b>Info Only</b>
<b>PTO</b>	<b>Total HV Filed TRR</b>	<b>Total LV Filed TRR</b>	<b>Combined TRR</b>
<b>Azusa</b>	Base TRR	2,348,028	2,348,028
	TRBAA	(398)	(398)
	Standby Credit	-	-
	<b>Total</b>	<b>2,347,630</b>	<b>2,347,630</b>
<b>Banning</b>	Gross Load	257,416	257,416
	Utility Specific Access Charges (\$/MWh)	9.1200	9.1200
	TRR - Eff. Date - Docket#	1/1/2015 NJ15-10	
	TRBA - Eff. Date - Docket#	1/1/2015 NJ15-10	
<b>Pasadena</b>	Base TRR	1,075,918	1,075,918
	TRBAA	1,298	1,298
	Standby Credit	-	-
	<b>Total</b>	<b>1,077,216</b>	<b>1,077,216</b>
<b>Riverside</b>	Gross Load	144,652	144,652
	Utility Specific Access Charges (\$/MWh)	7.4469	7.4469
	TRR - Eff. Date - Docket#	1/1/2015 NJ15-8	
	TRBA - Eff. Date - Docket#	1/1/2015 NJ15-8	
<b>DATC Path 15</b>	Base TRR	14,818,984	14,818,984
	TRBAA	(493,992)	(493,992)
	Standby Credit	-	-
	<b>Total</b>	<b>14,324,992</b>	<b>14,324,992</b>
<b>Pasadena</b>	Gross Load	1,231,980	1,231,980
	Utility Specific Access Charges (\$/MWh)	11.6276	11.6276
	TRR - Eff. Date - Docket#	09/1/2011 ER11-4375	
	TRBA - Eff. Date - Docket#	1/1/2015 NJ15-6	
<b>Riverside</b>	Base TRR	32,939,969	32,939,969
	TRBAA	(274,109)	(274,109)
	Standby Credit	-	-
	<b>Total</b>	<b>32,665,860</b>	<b>32,665,860</b>
<b>DATC Path 15</b>	Gross Load	2,180,985	2,180,985
	Utility Specific Access Charges (\$/MWh)	14.9776	14.9776
	TRR - Eff. Date - Docket#	1/1/2016 NJ16-2	
	TRBA - Eff. Date - Docket#	1/1/2016 NJ16-2	
<b>DATC Path 15</b>	Base TRR	25,925,000	25,925,000
	TRBAA	(517,176)	(517,176)
	Standby Credit	-	-
	<b>Total</b>	<b>25,407,824</b>	<b>25,407,824</b>
<b>DATC Path 15</b>	Gross Load	-	-
	Utility Specific Access Charges (\$/MWh)	0.0000	0.0000
	TRR - Eff. Date - Docket#	05/17/2014 ER14-1332	
	TRBA - Eff. Date - Docket#	1/1/2016 ER16-205	

<b>San Diego Gas &amp; Electric Co.</b>			
<b>2016 Estimated TAC (Benefit)/Burden TRR Inputs</b>			
<b>HIGH VOLTAGE AND LOW VOLTAGE COMPONENTS</b>			<b>Info Only</b>
<b>PTO</b>	<b>Total HV Filed TRR</b>	<b>Total LV Filed TRR</b>	<b>Combined TRR</b>
Base TRR	3,658,708		3,658,708
TRBAA	(71,172)		(71,172)
Standby Credit	-		-
Total	3,587,536		3,587,536
Gross Load	-		-
Utility Specific Access Charges (\$/MWh)	0.0000		0.0000
TRR - Eff. Date - Docket#	1/1/2016 ER16-335		
TRBA - Eff. Date - Docket#	1/1/2016 ER16-335		
Base TRR	121,823,486	9,310,514	131,134,000
TRBAA	(1,052,213)	1,537	(1,050,676)
Standby Credit	-	-	-
Total	120,771,273	9,312,051	130,083,324
Gross Load	-	30,442,937	-
Utility Specific Access Charges (\$/MWh)	0.0000	0.1030	0.0000
TRR - Eff. Date - Docket#	12/17/2013 ER13-2412		
TRBA - Eff. Date - Docket#	1/1/2015 ER15-744		
Base TRR	11,986,382	-	11,986,382
TRBAA	(202,398)	-	(202,398)
Standby Credit	-	-	-
Total	11,783,984	-	11,783,984
Gross Load	-	-	-
Utility Specific Access Charges (\$/MWh)	0.0000	0.0000	0.0000
TRR - Eff. Date - Docket#	6/1/2015 ER15-1795		
TRBA - Eff. Date - Docket#	1/1/2016 ER16-143		
Base TRR	2,897,086	-	2,897,086
TRBAA	(8,586)	-	(8,586)
Standby Credit	-	-	-
Total	2,888,500	-	2,888,500
Gross Load	372,179	-	372,179
Utility Specific Access Charges (\$/MWh)	7.7611	0.0000	7.7611
TRR - Eff. Date - Docket#	1/1/2015 NJ15-9		
TRBA - Eff. Date - Docket#	1/1/2015 NJ15-9		
Base TRR	10,886,590	3,413,410	14,300,000
TRBAA	2,290,634	-	2,290,634
Standby Credit	-	-	-
Total	13,177,224	3,413,410	16,590,634
Gross Load	544,970	544,970	544,970
Utility Specific Access Charges (\$/MWh)	24.1797	6.2635	30.4432
TRR - Eff. Date - Docket#	1/1/2013 ER13-49		
TRBA - Eff. Date - Docket#	1/1/2015 ER15-761		



<b>San Diego Gas &amp; Electric Co.</b>				
<b>2016 Estimated TAC (Benefit)/Burden TRR Inputs</b>				
<b>HIGH VOLTAGE AND LOW VOLTAGE COMPONENTS</b>			<b>Info Only</b>	
<b>PTO</b>	<b>Total HV Filed TRR</b>	<b>Total LV Filed TRR</b>	<b>Combined TRR</b>	
	For Information Only			
<b>Total CAISO Grid</b>	Base TRR	2,490,829,000	1,167,493,570	3,658,322,570
	TRBAA	(128,751,142)	(37,364,897)	(166,116,039)
	Standby Credit	(20,490,629)	(9,000,627)	(29,491,256)
	Total	2,341,587,229	1,121,128,046	3,462,715,275
	Gross Load	210,204,223		
	Utility Specific Access Charges (\$/MWh)	11.1396		

Work Paper – 5  
12-Month Recorded Sales Ending  
10/31/2015  
& 12-Month Forecast Sales from  
1/1/2016 thru 12/31/2016

San Diego Gas & Electric Recorded Billing Determinants for the 12-Month Period: November 2014 - October 2015														
Line No.	System Delivery Determinants	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Total
1	Customer Class Deliveries (MWh)													
2	Residential	559,881	590,713	654,947	535,798	523,755	500,457	505,583	510,494	599,362	654,904	777,855	721,103	7,134,832
3	Small Commercial	165,753	156,408	158,997	145,288	152,623	157,570	148,065	150,826	169,237	171,789	184,457	179,856	1,940,889
4	Med. & Large Comm./Ind.	818,356	809,808	829,206	833,177	780,573	835,368	819,022	751,011	940,849	895,518	937,539	1,010,557	10,260,983
5	Agriculture (PA)	7,888	5,561	4,831	6,130	5,933	7,997	7,519	7,787	8,937	8,593	9,530	8,554	89,259
6	Agriculture (PA-T-1)	20,879	15,932	12,506	16,555	15,367	19,457	16,045	15,866	19,154	44,309	17,339	25,995	239,404
7	Lighting	10,246	7,366	5,423	10,807	7,851	8,589	4,867	7,063	9,130	4,309	8,163	5,164	89,478
8	Sale for Resale	11.3	15.0	7.5	0.5	3.4	6.8	4.5	0.6	1.5	0.5	0.5	0.5	53
9	Total System	1,583,014	1,585,803	1,665,918	1,547,756	1,486,104	1,529,444	1,501,105	1,443,048	1,746,690	1,779,922	1,934,884	1,951,229	19,754,917
10	Total System - EXCLUDING Sale for Resale	1,583,002	1,585,788	1,665,910	1,547,756	1,486,101	1,529,437	1,501,101	1,443,047	1,746,688	1,779,922	1,934,884	1,951,229	19,754,865
11														
12														
13														
14	INPUT FROM RECORDED SALES FILE:													
15	Medium & Large C/I (AD+PA-T-1)	3,382	3,119	3,219	3,022	3,064	3,211	3,181	3,038	3,325	3,469	3,744	3,664	39,437
16	Med & Large C/I (AL+AY+DGR)	750,935	745,192	760,858	775,371	714,206	768,825	760,023	713,788	843,724	829,949	876,425	925,738	9,465,053
17	Med & Large C/I (A6)	64,039	61,497	65,129	54,785	63,303	63,332	55,817	34,185	93,800	63,101	57,370	81,135	756,493
18	Total	818,356	809,808	829,206	833,177	780,573	835,368	819,022	751,011	940,849	895,518	937,539	1,010,557	10,260,983
19														
20														
21	System Delivery Determinants													
22	Customer Class Deliveries (kWh)													
23	Residential	559,880,773	590,713,442	654,946,809	535,798,244	523,755,011	500,457,028	505,583,138	510,494,276	599,361,586	654,903,690	777,855,363	721,102,994	7,134,832,354
24	Small Commercial	165,752,621	156,407,691	158,996,758	145,288,076	152,622,698	157,569,514	148,065,197	150,825,939	169,237,114	171,789,464	184,457,379	179,856,350	1,940,888,801
25	Med. & Large Comm./Ind.	818,356,420	809,807,873	829,205,681	833,177,428	780,572,590	835,367,803	819,021,759	751,011,301	940,848,952	895,518,272	937,538,773	1,010,556,624	10,260,983,476
26	Agriculture (PA)	7,887,915	5,560,685	4,831,195	6,129,852	5,932,939	7,996,627	7,518,836	7,787,178	8,937,155	8,592,521	9,529,687	8,554,037	89,258,627
27	Agriculture (PA-T-1)	20,879,015	15,932,189	12,506,421	16,555,379	15,366,852	19,457,062	16,045,251	15,865,512	19,153,571	44,308,534	17,339,281	25,994,810	239,403,877
28	Lighting	10,245,738	7,366,162	5,423,418	10,806,555	7,850,608	8,589,040	4,866,573	7,062,850	9,129,845	4,309,371	8,163,389	5,164,003	89,477,552
29	Sale for Resale	11,300	14,983	7,458	460	3,395	6,764	4,492	574	1,533	535	536	525	52,555
30	Total System	1,583,013,782	1,585,803,025	1,665,917,740	1,547,755,994	1,486,104,093	1,529,443,838	1,501,105,246	1,443,047,630	1,746,689,756	1,779,922,387	1,934,884,408	1,951,229,343	19,754,917,242
31	Total System - EXCLUDING Sale for Resale	1,583,002,482	1,585,788,042	1,665,910,282	1,547,755,534	1,486,100,698	1,529,437,074	1,501,100,754	1,443,047,056	1,746,688,223	1,779,921,852	1,934,883,872	1,951,228,818	19,754,864,687
32														
33														
34	INPUT FROM FORECAST:													
35	Medium & Large Details - Deliveries in kWh:													
36	Med & Large C/I (AD)	3,382,250	3,119,207	3,218,862	3,021,594	3,063,845	3,210,851	3,181,481	3,038,164	3,324,696	3,468,662	3,743,913	3,663,858	39,437,383
37	Med & Large C/I (AL+AY+DGR)	750,935,107	745,191,966	760,857,968	775,370,846	714,203,566	768,824,665	760,023,407	713,788,186	843,723,886	829,948,767	876,424,701	925,737,732	9,465,052,797
38	Med & Large C/I (A6)	64,039,063	61,496,700	65,128,851	54,784,988	63,303,179	63,332,287	55,816,871	34,184,951	93,800,370	62,100,843	57,370,159	81,135,034	756,493,296
39	Total	818,356,420	809,807,873	829,205,681	833,177,428	780,572,590	835,367,803	819,021,759	751,011,301	940,848,952	895,518,272	937,538,773	1,010,556,624	10,260,983,476
40														

San Diego Gas & Electric Forecast Billing Determinants for the 12-Month Period: January 2016 - December 2016														
Line No.	System Delivery Determinants	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Total
1	Customer Class Deliveries (MWh)													
2	Residential	727,420	636,792	609,933	558,437	552,577	580,784	666,573	682,833	758,416	633,833	595,422	678,356	7,681,377
3	Small Commercial	160,332	153,698	151,746	147,213	150,465	157,808	172,588	171,202	184,873	164,655	154,757	156,347	1,925,682
4	Med. & Large Comm./Ind.	806,964	782,042	771,005	775,708	804,428	835,840	899,709	881,327	951,387	858,675	829,663	802,076	9,998,822
5	Agriculture (PA)	4,580	4,635	4,677	5,633	6,827	8,291	9,298	9,161	9,770	8,158	6,725	5,407	83,162
6	Agriculture (PA-T-1)	14,423	14,339	14,311	16,300	19,692	22,786	25,221	24,236	25,455	21,861	18,803	15,922	233,349
7	Lighting	7,898	7,502	7,495	7,315	7,356	7,633	7,736	7,360	7,738	7,429	7,543	7,827	90,832
8	Sale for Resale	3.2	3.1	3.1	3.1	3.0	3.0	3.2	3.0	3.0	3.0	3.1	3.2	37.3
9	Total System	1,721,620	1,599,010	1,559,171	1,510,609	1,541,348	1,613,144	1,781,128	1,776,122	1,937,643	1,694,614	1,612,917	1,665,936	20,013,263
10	Total System - EXCLUDING Sale for Resale	1,721,617	1,599,007	1,559,167	1,510,606	1,541,345	1,613,141	1,781,124	1,776,119	1,937,640	1,694,611	1,612,914	1,665,933	20,013,226
11														
12														
13														
14	INPUT FROM FORECAST:													
15	Medium & Large C/I - Deliveries in MWH:													
16	Med & Large C/I (AD)	2,950	2,922	2,944	2,825	2,916	3,034	3,173	3,208	3,517	3,117	2,884	2,791	36,281
17	Med & Large C/I (AL+AY+DGR)	739,542	723,493	716,290	714,398	738,747	773,852	830,532	815,255	878,846	794,380	758,472	733,309	9,217,117
18	Med & Large C/I (A6)	64,472	55,627	51,771	58,484	62,765	58,954	66,003	62,864	69,024	61,179	68,307	65,975	745,424
19	Total	806,964	782,042	771,005	775,708	804,428	835,840	899,709	881,327	951,387	858,675	829,663	802,076	9,998,822
20														

San Diego Gas & Electric Forecast Billing Determinants for the 12-Month Period: January 2016 - December 2016														
Line No.	System Delivery Determinants	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Total
21	Customer Class Deliveries (kWh)													
22	Residential	727,419,849	636,792,165	609,933,415	558,437,152	552,577,446	580,784,274	666,573,194	682,833,044	758,415,886	633,833,086	595,422,269	678,355,670	7,681,377,391
23	Small Commercial	160,331,520	153,697,926	151,745,769	147,213,246	150,465,496	157,807,522	172,587,689	171,201,558	184,872,950	164,655,033	154,757,034	156,346,731	1,925,682,495
24	Med. & Large Comm./Ind.	806,963,765	782,041,532	771,005,238	775,707,508	804,427,595	835,839,811	899,708,532	881,327,324	951,386,527	858,675,091	829,663,454	802,075,681	9,998,822,077
25	Agriculture (PA)	4,580,174	4,634,909	4,677,383	5,633,199	6,826,506	8,290,769	9,298,378	9,160,827	9,770,347	8,157,777	6,724,985	5,406,853	83,162,105
26	Agriculture (PA-T-1)	14,423,292	14,338,832	14,310,957	16,299,756	19,692,252	22,786,463	25,220,539	24,236,237	25,455,368	21,861,203	18,802,814	15,921,635	233,349,370
27	Lighting	7,898,431	7,501,561	7,494,706	7,315,289	7,355,977	7,632,508	7,736,164	7,360,012	7,738,471	7,429,144	7,543,424	7,826,742	90,832,430
28	Sale for Resale	3,249	3,068	3,090	3,014	3,037	3,149	3,197	3,020	3,179	3,033	3,062	3,177	37,274
29	Total System	1,721,620,279	1,599,010,033	1,559,170,558	1,510,609,164	1,541,348,309	1,613,144,496	1,781,127,633	1,776,122,022	1,937,642,729	1,694,614,387	1,612,917,043	1,665,936,489	20,013,263,143
30	Total System - EXCLUDING Sale for Resale	1,721,617,031	1,599,006,965	1,559,167,468	1,510,606,150	1,541,345,272	1,613,141,347	1,781,124,436	1,776,119,002	1,937,639,550	1,694,611,354	1,612,913,981	1,665,933,312	20,013,225,869
31														
32														
33														
34	INPUT FROM FORECAST:													
35	Medium & Large C/I - Deliveries in kWh:													
36	Med & Large C/I (AD)	2,949,549	2,921,750	2,944,397	2,825,445	2,915,875	3,034,062	3,172,918	3,208,262	3,516,575	3,116,800	2,884,310	2,791,130	36,281,074
37	Med & Large C/I (AL+AY+DGR)	739,542,416	723,492,779	716,290,337	714,398,097	738,746,887	773,852,170	830,532,471	815,254,755	878,846,228	794,379,691	758,471,881	733,309,323	9,217,117,035
38	Med & Large C/I (A6)	64,471,800	55,627,023	51,770,504	58,483,966	62,764,832	58,953,579	66,003,143	62,864,307	69,024,724	61,178,600	68,307,263	65,975,228	745,423,968
39	Total	806,963,765	782,041,532	771,005,238	775,707,508	804,427,595	835,839,811	899,708,532	881,327,324	951,386,527	858,675,091	829,663,454	802,075,681	9,998,822,077
40														

San Diego Gas & Electric Company  
2016 TRBAA-TACBAA Filing

Attachment – E  
Appendix I  
SDG&E's Wholesale Transmission  
Revenue Requirements  
Per CAISO Tariffs

**APPENDIX - I**  
**SDG&E's Transmission Revenue Requirement**  
**Annual TRBAA Rate Filing Per Docket No. ER16-\_\_\_\_-000**  
**Effective January 1, 2016**

1. **Wholesale Customers:** For purposes of the CAISO's calculation of Transmission Access Charges:
  - a. The Wholesale Transmission Revenue Requirement shall be **\$768,463,683<sup>1</sup>**, which is equal to the Wholesale Base Transmission Revenue Requirement of \$795,496,000, reduced by the Wholesale TRBAA of \$15,936,253 and reduced by Standby Transmission Revenue of \$11,096,064.
  - b. The High Voltage Transmission Revenue Requirement shall be \$469,609,354.
  - c. The Low Voltage Transmission Revenue Requirement shall be \$298,854,329.
  - d. Gross Load consistent with the High Voltage Transmission Revenue Requirement shall be 20,824,991 megawatt hours.
2. **Effective Date:** The amounts in (1) shall be effective January 1, 2016, or until amended by the Participating TO or modified by FERC.

**NOTE (1):** Transmission Revenue Requirements consist of the following:

BTRR TO4-Cycle 3 Informational Filing Docket ER16-445-000	=\$795,496,000
TRBAA per FERC Order in Docket ER16-____-000	= (15,936,253)
Standby Revenues TO4-Cycle 3 Informational Filing ER16-445-000	= (11,096,064)
<b>TOTAL</b>	<b>= <u>\$768,463,683</u></b>

**NOTE (2):** The Appendix-I HV-TRR information contains the Wholesale HV-BTRR and HV-Standby Revenues from the Informational Filing in FERC Docket No. ER16-445-000 filed on December 1, 2015. The Wholesale TRBAA for the 2016 calendar year rate effective period comes from the instant TRBAA filing.

San Diego Gas & Electric Company  
2016 TRBAA-TACBAA Filing

Attachment – F  
Attestation Form

**ATTESTATION RE SAN DIEGO GAS & ELECTRIC'S  
2016 ANNUAL TRBAA AND TACBAA RATE REVISIONS  
(18 CFR § 35.13 (d)(7))**

I, Lee Schavrien, attest that I am Chief Administrative Officer of San Diego Gas & Electric ("SDG&E") and Southern California Gas ("SCG"), and to the best of my knowledge and belief, the cost of service statements and supporting data submitted as part of this filing are true, accurate, and current representations of SDG&E's books and other corporate documents.

December 17, 2015

  
Lee Schavrien

.....

**California All-Purpose Acknowledgement**

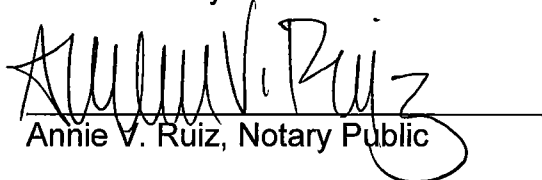
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California            )  
  )  
County of San Diego         )

On December 17, 2015 before me, Annie V. Ruiz, a Notary Public, personally appeared **Lee Schavrien**, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

  
Annie V. Ruiz, Notary Public

