

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY &
SAN DIEGO GAS & ELECTRIC COMPANY FOR AUTHORITY TO REVISE THEIR
NATURAL GAS RATES AND IMPLEMENT STORAGE PROPOSALS EFFECTIVE
JANUARY 1, 2020 IN THE TRIENNIAL COST ALLOCATION PROCEEDING**

(A.18-07-024)

(DATA REQUEST TURN-SEU-03) SDG&E

DATA RECEIVED: 2-6-19

DATE RESPONDED: 2-21-19

FIRST SUPPLEMENTAL DATE RESPONDED: 3-4-19

QUESTION 1:

Do the capital costs and/or installation costs of meters for SDG&E presented in the marginal cost study include the costs of Automatic Meter Infrastructure (AMI)? If so, what are those extra AMI costs in dollars per meter by customer class and for each type of meter?

RESPONSE 1:

No. The meter costs presented do include the costs of the AMR module purchased with the meter, but they do not include any costs or allocation of costs for the AMI infrastructure (system wide equipment and operating costs for operating the AMR modules).

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY &
SAN DIEGO GAS & ELECTRIC COMPANY FOR AUTHORITY TO REVISE THEIR
NATURAL GAS RATES AND IMPLEMENT STORAGE PROPOSALS EFFECTIVE
JANUARY 1, 2020 IN THE TRIENNIAL COST ALLOCATION PROCEEDING**

(A.18-07-024)

(DATA REQUEST TURN-SEU-03) SDG&E

DATA RECEIVED: 2-6-19

DATE RESPONDED: 2-21-19

FIRST SUPPLEMENTAL DATE RESPONDED: 3-4-19

QUESTION 3:

Please provide the following information on main and service replacement for SDG&E:

- a) Number of miles of gas distribution mains that have been replaced in each year from 2015-2017 and that have been replaced in 2018 through the latest available month, and that are projected to be replaced in each year from 2017 to the end of the TY 2020 GRC cycle. Divide by size and type of pipe. Separately identify (a) plastic mains replaced with plastic mains; (b) steel mains replaced with steel mains, and (c) steel mains replaced with plastic mains.
- b) Total cost of main replacement in each year from 2015-2020, divided into O&M and capital using recorded and projected data from subsection (a) above.
- c) Number and number of miles of gas services that have been replaced in each year from 2015-2017, that have been replaced in 2018 through the latest available month, and that are projected to be replaced in each year from 2015 to the end of the TY 2016 GRC cycle. Divide by size and type of pipe of original installation Separately identify by size of pipe (a) plastic services replaced with plastic services; (b) steel services replaced with steel services, and (c) steel services replaced with plastic services.
- d) Total cost of service replacement in each year from 2015-2020, divided into O&M and capital using recorded and projected data from subsection (c) above.

RESPONSE 3:

- a) The number of feet of gas distribution main replaced by size and material for the years 2015 to 2017 and 2018 is presented in the table below. Lengths of replacement main are not projected for future years separately or in this format, and therefore are not available. In addition, the data to answer the request for what pipe material replaces another pipe material for the main replacements is not available. [Note: Data is presented in feet rather than miles to avoid the loss of presented values in rounding mileage data.]

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY &
SAN DIEGO GAS & ELECTRIC COMPANY FOR AUTHORITY TO REVISE THEIR
NATURAL GAS RATES AND IMPLEMENT STORAGE PROPOSALS EFFECTIVE
JANUARY 1, 2020 IN THE TRIENNIAL COST ALLOCATION PROCEEDING**

(A.18-07-024)

(DATA REQUEST TURN-SEU-03) SDG&E

DATA RECEIVED: 2-6-19

DATE RESPONDED: 2-21-19

FIRST SUPPLEMENTAL DATE RESPONDED: 3-4-19

SDG&E Gas Distribution Main Replacement					
Footage by Year					
	2015	2016	2017	2018	Totals
Size:	Plastic				
1/2"	0	0	20	5	25
1"	17	246	14	5	282
1 1/4"	5	16	21	16	58
2"	24,983	74,756	95,953	75,721	271,413
3"	8,013	20,878	31,696	29,218	89,805
4"	4,577	13,127	2,038	1,841	21,583
6"	6,281	6,224	5,493	5,242	23,240
8"	0	4,312	0	0	4,312
Size:	Steel				
1"	4	13	0	0	17
1 1/2"	6	4	18	20	48
2"	1,084	1,781	945	413	4,223
3"	34	30	34	77	175
4"	126	203	173	24	526
6"	337	27	748	518	1,630
8"	6	1,384	0	0	1,390
10"	0	0	94	24	118
12"	28	4	8	0	40

- b) The main replacement expense is collected together with other main maintenance expenses such as main repairs and are found in various O&M and Capital accounts. In addition, these expenses are not separated by pipeline size or material. Because of the way these expenses are accounted for, replacement expenses alone separated by size and material cannot be accurately determined. In addition, replacement main costs are not projected for future years separately or in this format; therefore, they are also not available.
- c) The number of feet of gas distribution services replaced by size and material for the years 2015 to 2017 and 2018 is presented in the table below. Lengths of replacement main are not projected for future years separately or in this format, and therefore are not available. In addition, the data to answer the request for what pipe material replaces another pipe material for the service replacements is not available. [Note: Data is presented in feet rather than miles to avoid the loss of presented data in rounding mileage data.]

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY &
SAN DIEGO GAS & ELECTRIC COMPANY FOR AUTHORITY TO REVISE THEIR
NATURAL GAS RATES AND IMPLEMENT STORAGE PROPOSALS EFFECTIVE
JANUARY 1, 2020 IN THE TRIENNIAL COST ALLOCATION PROCEEDING**

(A.18-07-024)

(DATA REQUEST TURN-SEU-03) SDG&E

DATA RECEIVED: 2-6-19

DATE RESPONDED: 2-21-19

FIRST SUPPLEMENTAL DATE RESPONDED: 3-4-19

SDG&E Gas Distribution Service Replacement Footage by Year					
	2015	2016	2017	2018	Totals
Size:	Plastic				
1/2"	17,619	28,060	27,753	9,104	82,536
1"	29,459	110,063	131,378	100,509	371,409
1 1/4"	2	11	20	45	78
2"	1,883	1,720	2,442	2,031	8,076
3"	392	165	10	3	570
4"	76	292	81	0	449
Size:	Steel				
3/4"	414	667	347	157	1,585
1"	17	103	25	5	150
1 1/4"	1	0	0	2	3
1 1/2"	0	0	12	0	12
2"	0	0	17	0	17
4"	8	0	5	0	13

- d) The service replacement expense is collected together with other service maintenance expenses such as service line repairs and are found in various O&M and Capital accounts. In addition, these expenses are not separated by pipeline size or material. Because of the way these expenses are accounted for, replacement expenses alone separated by size and material cannot be accurately determined. In addition, replacement service costs are not projected for future years separately or in this format; therefore, they are also not available.

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY &
SAN DIEGO GAS & ELECTRIC COMPANY FOR AUTHORITY TO REVISE THEIR
NATURAL GAS RATES AND IMPLEMENT STORAGE PROPOSALS EFFECTIVE
JANUARY 1, 2020 IN THE TRIENNIAL COST ALLOCATION PROCEEDING**

(A.18-07-024)

(DATA REQUEST TURN-SEU-03) SDG&E

DATA RECEIVED: 2-6-19

DATE RESPONDED: 2-21-19

FIRST SUPPLEMENTAL DATE RESPONDED: 3-4-19

QUESTION 4:

Please provide the following information on cathodic protection for SDG&E:

- a) Identify total costs in Account 887 in 2016 and 2017 and state costs of cathodic protection separately from other costs in Account 887.
- b) Identify the number of miles of mains and services under cathodic protection at the end of 2016 and 2017. To the extent possible, for each year divide the estimate between mains and services, between high pressure and low-pressure mains, and by the size of pipe.

RESPONSE 4:

- a) Total recorded direct O&M costs in FERC account 887 for the years 2016 and 2017 are shown in the table below. Shown separately are cathodic protection costs (FERC account 887.3).

FERC Account 887 Expense - 2016 and 2017

(Direct expense - \$(000) of year of dollars)

Year	FERC Account	Description	Total Expense \$(000)
2016	887	All other 887 expense - maintenance of gas distribution mains; repairing leaks in mains	\$6,316
2016	887.3	Cathodic Protection expense (only) - surveys, CP system troubleshooting	\$1,367
2017	887	All other 887 expense - maintenance of gas distribution mains; repairing leaks in mains	\$5,105
2017	887.3	Cathodic Protection expense (only) - surveys, CP system troubleshooting	\$1,337

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY &
SAN DIEGO GAS & ELECTRIC COMPANY FOR AUTHORITY TO REVISE THEIR
NATURAL GAS RATES AND IMPLEMENT STORAGE PROPOSALS EFFECTIVE
JANUARY 1, 2020 IN THE TRIENNIAL COST ALLOCATION PROCEEDING**

(A.18-07-024)

(DATA REQUEST TURN-SEU-03) SDG&E

DATA RECEIVED: 2-6-19

DATE RESPONDED: 2-21-19

FIRST SUPPLEMENTAL DATE RESPONDED: 3-4-19

- b) The number of miles of mains and services under cathodic protection at the end of 2016 and 2017 are presented below. These values are drawn from the Annual Report for Calendar Year 2016 and 2017 – Gas Distribution System, Form PHMSA F 7100.1-1 (rev 01-2011) submitted by SDG&E to the DOT annually. The division by total number of miles of pipe between high pressure and medium-pressure mains through the end of 2018 is presented in the response for Question 2(j) in the first line of that table (for steel pipe).

Number of MILES of MAINS under protection at end of year							
Pipe Type	Unknown	2" or Less	Over 2" thru 4"	Over 4" thru 8"	Over 8" thru 12"	Over 12"	Total
2016	0	2603	500	334	114	41	3592
2017	0	2599	502	334	100	38	3573

Number of MILES of SERVICES under protection at end of year							
Pipe Type	Unknown	2" or Less	Over 2" thru 4"	Over 4" thru 8"	Over 8" thru 12"	Over 12"	Total
2016	0	2494	31	1	--	0	2526
2017	0	3518	47	1	--	0	3566

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY &
SAN DIEGO GAS & ELECTRIC COMPANY FOR AUTHORITY TO REVISE THEIR
NATURAL GAS RATES AND IMPLEMENT STORAGE PROPOSALS EFFECTIVE
JANUARY 1, 2020 IN THE TRIENNIAL COST ALLOCATION PROCEEDING**

(A.18-07-024)

(DATA REQUEST TURN-SEU-03) SDG&E

DATA RECEIVED: 2-6-19

DATE RESPONDED: 2-21-19

FIRST SUPPLEMENTAL DATE RESPONDED: 3-4-19

QUESTION 5:

Please identify the total number of gas meters replaced by SDG&E in each year from 2015 to 2018, separated into the number of meters required to be replaced in order to install AMI, and the number of other meters replaced.

RESPONSE 5:

SDG&E's AMI system was fully implemented by 2015, therefore, no meters are characterized as "required to be replaced in order to install AMI".

	Replacements
2018	13,910
2017	13,990
2016	14,041
2015	12,749

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY &
SAN DIEGO GAS & ELECTRIC COMPANY FOR AUTHORITY TO REVISE THEIR
NATURAL GAS RATES AND IMPLEMENT STORAGE PROPOSALS EFFECTIVE
JANUARY 1, 2020 IN THE TRIENNIAL COST ALLOCATION PROCEEDING**

(A.18-07-024)

(DATA REQUEST TURN-SEU-03) SDG&E

DATA RECEIVED: 2-6-19

DATE RESPONDED: 2-21-19

FIRST SUPPLEMENTAL DATE RESPONDED: 3-4-19

QUESTION 6:

Regarding Measurement and Regulator Stations (Account 378), Exhibit SDG&E-4, page GOM 50 in the 2019 TY GRC indicates that there are 481 regulator stations in the SDG&E Gas service territory. Approximately what percentage of regulator stations are at the interface between transmission and high-pressure distribution, what percentage are at the interface between high pressure distribution and medium pressure distribution, and what percentage are at other interfaces (e.g., transmission to medium pressure distribution or to step down pressure on the medium pressure system)?

RESPONSE 6:

The portion of total gas distribution regulator stations that provide pressure regulation at the various interfaces between pressure systems are shown in the table below:

SDG&E Gas Distribution Regulator Stations
Interface Between Pressure Systems

Regulator Station Interface	% of Total Regulator Stations
Transmission to High Pressure Distribution	10.0%
High Pressure Distribution to Medium Pressure Distribution	60.6%
Transmission to Medium Pressure Distribution	25.8%
Other Interfaces	3.6%

Total -> 100%

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY &
SAN DIEGO GAS & ELECTRIC COMPANY FOR AUTHORITY TO REVISE THEIR
NATURAL GAS RATES AND IMPLEMENT STORAGE PROPOSALS EFFECTIVE
JANUARY 1, 2020 IN THE TRIENNIAL COST ALLOCATION PROCEEDING**

(A.18-07-024)

(DATA REQUEST TURN-SEU-03) SDG&E

DATA RECEIVED: 2-6-19

DATE RESPONDED: 2-21-19

FIRST SUPPLEMENTAL DATE RESPONDED: 3-4-19

QUESTION 12:

Please provide the amount of revenue from Smart Meter Opt-Out customers in 2016 and 2017 recorded.

RESPONSE 12:

As preliminary matter, SDG&E would object to this question on the basis of relevance. Subject to and without waiving this objection, SDG&E responds as follows. SDG&E collected the following Smart Meter Opt-Out fees in the years requested:

2017: \$37,757

2016: \$49,721

**APPLICATION OF SOUTHERN CALIFORNIA GAS COMPANY &
SAN DIEGO GAS & ELECTRIC COMPANY FOR AUTHORITY TO REVISE THEIR
NATURAL GAS RATES AND IMPLEMENT STORAGE PROPOSALS EFFECTIVE
JANUARY 1, 2020 IN THE TRIENNIAL COST ALLOCATION PROCEEDING**

(A.18-07-024)

(DATA REQUEST TURN-SEU-03) SDG&E

DATA RECEIVED: 2-6-19

DATE RESPONDED: 2-21-19

FIRST SUPPLEMENTAL DATE RESPONDED: 3-4-19

QUESTION 13:

Please provide the amount of revenue received in 2016 and 2017 recorded from Service Establishment Charges, Reconnection charges, Residential Parts, Commercial Parts, Appliance Connection, and Returned Check Charges.

RESPONSE 13:

- Service Establishment Charges,
2017: \$1,158,825
2016: \$1,183,384

- Reconnection charges,
2017: \$31,858
2016: \$42,543

- Residential Parts,
2017: \$88,080
2016: \$17,708

- Commercial Parts,
Not Applicable to SDG&E

- Appliance Connection,
Not Applicable to SDG&E

- Returned Check Charges
2017: \$63,637
2016: \$46,185