

November 2016 PSEP Update

I. Introduction

D.12-04-021 directs Southern California Gas (SoCalGas) and San Diego Gas & Electric (SDG&E) to provide monthly Pipeline Safety Enhancement Plan (PSEP) updates to the Commission's Energy Division and Consumer Protection and Safety Division (now Safety and Enforcement Division) as the plan is implemented.¹ Attached is the update for November 2016.

II. Current Status

SoCalGas and SDG&E have undertaken the following PSEP related activities for the month of November:

Pipelines:

1. No new construction activity for the month of November
2. 15 pipeline projects are in Construction (Stage 5)
3. 13 pipeline projects are in Start Up/Turnover (Stage 6)
4. 33 pipeline projects are in Close-Out (Stage 7)

Valves:

1. New construction activity began on 3 valve projects
 - Haynes (Long Beach)
 - L6916 (San Bernardino)
 - 49-15 Transmission (El Cajun, San Diego, La Mesa)
2. 40 valve projects are in construction/turnover (Stages 5-6)
3. 6 valve projects are in Close-Out (Stage 7)

III. Costs

Actual costs tracked in SoCalGas and SDG&E's respective Regulatory Accounts are provided in Appendix A and Appendix C.

IV. Attachments

- Appendix A – *PSEP - SoCalGas / SDG&E - Active Pipeline Projects List with Cost*
- Appendix B – *PSEP - SoCalGas / SDG&E - Active Valve Projects List with Cost*
- Appendix C – *Records Review and Interim Safety Measure Costs*

¹ D.12-04-021, mimeo., at 7 and 12 (Ordering Paragraph No. 4).

V. **Notes**

- Appendix A, SoCalGas Active Pipeline Projects Table, Footnote 12:
Project "36-9-09 North Section 4" has been separated into 2 projects "36-9-09 North Section 4A" and "36-9-09 North Section 4B."

SoCalGas and SDGE PSEP Project Status Report to the Commission for November 2016

Appendix A Active Projects Listing

Pipeline-SoCalGas							
Pipeline Project	PSEP Filing Priority	Total Miles as Filed	Project Lifecycle Stage for November 2016 ⁽¹⁾	Predominant Vintage	Construction Start Date (Est.) Reported in November 2016	November 2016 Actuals (in \$1,000)	Project-to-Date as of November 2016 (in \$1,000)
2000 ⁽³⁾	1	117.6 ⁽³⁾		1947			
2000-A			Closed		Jun-13	-	22,427
2000-Bridge			3-Project Definition		Jul-17	4	468
2000-West ⁽⁶⁾							
2000-West Section 1,2,3			7-Close-out		Jul-14	4	23,205
2000-West Santa Fe Springs Sta.			5-Construction		Oct-16	1,073	4,211
2001 West ⁽⁴⁾	3	64.10		1950			
2001 West - A			Closed		Apr-14	-	745
2001 West - B ⁽⁶⁾							
2001 West-B Section 10,11,14			7-Close-out		Aug-14	-	11,872
2001 West-B Section 17,18,19			7-Close-out		Aug-15	(546)	4,550
2000-C/2001W - C Desert Bundle ⁽³⁾⁽⁴⁾⁽⁶⁾							
2000-C			4-Detailed Design		Jan-17	(200)	5,504
2001 West - C			4-Detailed Design		Sep-17	3	2,027
2000-D			3-Project Definition		Jun-18	3	1,320
2001 West - D			3-Project Definition		Jun-18	4	619
2000-E	N/A	N/A	2-Selection	N/A	N/A	38	169
2001 West -E	N/A	N/A	2-Selection	N/A	N/A	12	216
1005	4	3.50	Closed	1949	Sep-14	-	5,820
2003 ⁽⁶⁾	6	26.50		1949			
2003			Closed		Aug-14	-	8,817
2003 Section 2			7-Close-out		Jul-15	8	2,682
407	7	6.30	7-Close-out	1951	Mar-14	5	6,370
406 ⁽⁶⁾	9	20.70		1951			
406 Section 1,2,2A,4,5			Closed		Aug-14	-	9,681
406 Section 3			7-Close-out		Jun-16	(246)	2,426
235 West	10	3.10	Closed	1957	Jun-14	-	3,406
1013	11	3.50	Closed	1954	Jul-14	(5)	2,423
1015	12	7.85	Closed	1954	Aug-14	3	2,462
1004	13	19.70	7-Close-out	1944	May-15	46	12,691
404 ⁽⁶⁾	14	37.80		1949			
404 Section 1			7-Close-out		Sep-15	(90)	2,445
404 Section 2			7-Close-out		Sep-15	(24)	3,923
404 Section 2A			4-Detailed Design		Mar-17	21	153
404 Section 3,7&8,8A			7-Close-out		Feb-14	2	8,633
404 Section 3A			6-Start Up/Turnover		Aug-16	553	4,804
404 Section 4&5			7-Close-out		Sep-15	(10)	6,101
404 Section 4A			4-Detailed Design		Jan-18	6	625
404 Section 9			7-Close-out		Jun-16	(15)	1,846
44-137	15	1.00	7-Close-out	1950	Nov-14	(655)	23,865
2000-0.18-BO Crossover Piping ⁽⁵⁾			3-Project Definition		Jul-17		
2000-0.18-BO	23	0.01		1952		-	-
2000-0.18-XO1	43	0.01		1952		-	273
2000-0.18-XO2	16	0.01		1961		-	-
1014	18	0.003	Closed	1959	Oct-14	-	825
43-121 ⁽⁶⁾	22	4.41		1930			
43-121 North			5-Construction		Aug-16	1,371	12,062
43-121 South			6-Start Up/Turnover		Aug-14	576	27,591
33-120 ⁽⁶⁾	24	1.25		1940			
33-120 Section 1			4-Detailed Design		Jun-17	(147)	2,711
33-120 Section 2			Closed		Jun-14	-	7,052
33-120 Section 3			4-Detailed Design		Feb-17	(2)	1,843
45-120 ⁽⁶⁾	25	4.30		1930			
45-120 Section 1			Closed		Mar-14	8	5,827
45-120 Section 2			5-Construction		Sep-14	133	42,767
32-21 ⁽⁶⁾	26	10.23		1948			
32-21 Section 1			7-Close-out		May-15	15	11,036
32-21 Section 2			6-Start Up/Turnover		Jun-16	561	3,726
32-21 Section 3			6-Start Up/Turnover		Sep-16	467	2,335
41-6000-2 ⁽⁹⁾	27	39.95	Various	1948	Various	395	76,112
36-9-09 North ⁽⁶⁾	29	16.02		1932			
36-9-09 North Section 1			6-Start Up/Turnover		May-15	1,914	41,668
36-9-09 North Section 2A			4-Detailed Design		Jul-18	-	86
36-9-09 North Section 2B			Closed		Jun-14	-	2,957
36-9-09 North Section 3			7-Close-out		Dec-14	87	23,982
36-9-09 North Section 4 ⁽¹²⁾						27	8,166
36-9-09 North Section 4A ⁽¹²⁾			4-Detailed Design		Feb-17	59	87
36-9-09 North Section 4B ⁽¹²⁾			7-Close-out		Sep-14	12	21
36-9-09 North Section 5						(84)	8,828
36-9-09 North Section 5A			7-Close-out		Feb-16	1,524	3,326
36-9-09 North Section 5C ⁽⁶⁾			4-Detailed Design		Dec-16	82	406
36-9-09 North Section 6A			Closed		Mar-15	-	2,693
36-9-09 North Section 6B			3-Project Definition		Sep-17	23	1,133
36-9-09 North Section 7A			5-Construction		Sep-16	1,430	4,729
36-9-09 North Section 7B			7-Close-out		May-15	38	23,486

SoCalGas and SDGE PSEP Project Status Report to the Commission for November 2016

Appendix A Active Projects Listing

Pipeline-SoCalGas								
Pipeline Project	PSEP Filing Priority	Total Miles as Filed	Project Lifecycle Stage for November 2016 ⁽³⁾	Predominant Vintage	Construction Start Date (Est.) Reported in November 2016	November 2016 Actuals (in \$1,000)	Project-to-Date as of November 2016 (in \$1,000)	
1011	36	5.14	Closed	1955	Jul-14	-	2,418	
36-37	38	0.02	Closed	1970	May-14	-	1,044	
42-66-1&2 ⁽¹⁰⁾			Closed		Oct-13			
42-66-1	40	0.04		1947		-	681	
42-66-2	41	0.03		1947		-	-	
37-18 ⁽⁶⁾	45	4.16		1945				
37-18			5-Construction		Oct-14	1,862	37,031	
37-18 Section 5			4-Detailed Design		Mar-17	-	-	
37-18-F	46	2.06	6-Start Up/Turnover	1946	Aug-16	420	5,706	
37-18-K	12	2.85	3-Project Definition	1949	Jun-17	39	261	
30-18 ⁽⁶⁾	47	2.58		1943				
30-18			5-Construction		Jul-14	140	23,339	
30-18 Section 3			5-Construction		Oct-16	412	412	
44-654	50	0.01	Closed	1957	Jun-14	-	1,825	
31-09 ⁽¹³⁾	52	12.81	7-Close-out	1958	Jul-15	10	30	
37-07	53	2.68	7-Close-out	1945	Sep-14	37	26,422	
33-121 (REPL) ⁽¹⁴⁾	59	0.16	3-Project Definition	1955	Jun-17	(16)	1,254	
41-6001-2	63	0.005	3-Project Definition	1967	Mar-17	-	246	
36-1032 (REPL) ⁽¹⁴⁾	64	1.54	Closed	1963	May-14	-	10,008	
36-1032 Section 4	N/A	N/A	4-Detailed Design	1963	Jun-17	(1)	1,344	
41-30-A	80	0.26	Closed	1940	Jul-14	-	431	
41-30 ⁽¹⁵⁾	82	3.95	N/A	1953	N/A	-	66	
38-200	86	0.23	7-Close-out	1948	Apr-16	(7)	7,251	
45-120X01	87	0.01	Closed	1930	Sep-13	-	750	
38-501 ⁽⁶⁾	89	1.98		1952				
38-501 Section 1			7-Close-out		Jun-15	(10)	5,169	
38-501 Section 2			6-Start Up/Turnover		Aug-16	3,547	12,708	
36-1002	96	0.21	7-Close-out	1928	May-15	-	1,755	
44-687	99	0.23	7-Close-out	1946	Sep-14	(14)	5,000	
38-512 ⁽⁶⁾	106	4.78		1939				
38-512			7-Close-out		Mar-15	(124)	27,318	
38-512 Section 3			3-Project Definition		Jun-17	2	215	
44-1008 Section 2B ⁽⁶⁾	107	10.06	4-Detailed Design	1937	Oct-17	(10)	1,209	
35-20-N	113	0.010	Closed	1929	Aug-14	-	231	
38-539	124	12.08	7-Close-out	1964	Oct-14	1	15,478	
38-556	N/A	N/A	3-Project Definition	N/A	N/A	1	661	
36-9-21	126	5.06	3-Project Definition	1950	Sep-17	34	877	
44-720	132	1.17	7-Close-out	1947	Jun-15	(14)	9,619	
41-116	142	0.006	6-Start Up/Turnover	1957	Oct-16	5	18	
225	N/A	N/A	4-Detailed Design	1959	Mar-18	(9)	2,485	
235W Sawtooth Canyon	N/A	N/A	Closed	1957	Oct-14	-	1,884	
38-931	N/A	N/A	4-Detailed Design	1942	Jan-17	50	1,645	
38-504	N/A	N/A	6-Start Up/Turnover	1952	Sep-16	1,673	4,715	
38-514 ⁽⁶⁾	N/A	N/A		1945				
38-514 Section 1			7-Close-out		May-16	27	1,771	
38-514 Section 2			7-Close-out		Feb-16	70	11,399	
36-9-09 South	N/A	N/A	7-Close-out	1951	Apr-16	50	1,999	
36-9-09-JJ	N/A	N/A	6-Start Up/Turnover	1920	Jun-16	171	1,527	
85 ⁽¹³⁾	N/A	N/A	3-Project Definition		TBD	(10)	3,204	
85 South Newhall	N/A	N/A	7-Close-out	1931	Dec-14	1	8,505	
404-406 Somis Station ⁽¹¹⁾	N/A	N/A	4-Detailed Design	1951	Jun-17	88	1,040	
Storage (7)	-	2.83		various				
Playa Del Rey Phase 1&2			Closed		Aug-13	-	648	
Playa Del Rey Phase 5			Closed		Mar-15	-	1,933	
Goleta			4-Detailed Design		Apr-17	94	312	
128-P1B-01			2-Selection		May-17	-	42	
36-1001-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1925	Mar-18	7	138	
36-1032-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1928	May-18	7	285	
PSEP-SL36-1032-P1B-11	N/A	N/A	N/A	N/A	N/A	133	396	
PSEP-SL36-1032-P1B-12	N/A	N/A	N/A	N/A	N/A	125	435	
PSEP-SL36-1032-P1B-13	N/A	N/A	N/A	N/A	N/A	54	373	
PSEP-SL36-1032-P1B-14	N/A	N/A	N/A	N/A	N/A	39	336	
36-37-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1927	May-18	6	181	
PSEP-SL36-37-P1B-11	N/A	N/A	N/A	N/A	N/A	208	1,396	
PSEP-SL36-37-P1B-12	N/A	N/A	N/A	N/A	N/A	39	1,007	
PSEP-SL36-37-P1B-11	N/A	N/A	N/A	N/A	N/A	-	-	
PSEP-SL36-37-P1B-12	N/A	N/A	N/A	N/A	N/A	-	-	
36-1002-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1928	Jun-18	3	782	
PSEP-SL36-1002-P1B-11	N/A	N/A	N/A	N/A	N/A	-	194	
PSEP-SL36-1002-P1B-12	N/A	N/A	N/A	N/A	N/A	-	88	
PSEP-SL36-1002-P1B-13	N/A	N/A	N/A	N/A	N/A	-	77	
PSEP-SL36-1002-P1B-14	N/A	N/A	N/A	N/A	N/A	-	57	

SoCalGas and SDGE PSEP Project Status Report to the Commission for November 2016

Appendix A Active Projects Listing

Pipeline-SoCalGas								
Pipeline Project	PSEP Filing Priority	Total Miles as Filed	Project Lifecycle Stage for November 2016 ⁽¹⁾	Predominant Vintage	Construction Start Date (Est.) Reported in November 2016	November 2016 Actuals (in \$1,000)	Project-to-Date as of November 2016 (in \$1,000)	
43-121-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1930	Oct-18	27	317	
45-1001-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1925	Oct-18	46	375	
38-931-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1942	Nov-18	26	75	
36-9-09N-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1920	Mar-18	6	890	
PSEP-SL36-9-09N-P1B-12	N/A	N/A				68	369	
PSEP-SL36-9-09N-P1B-14	N/A	N/A				45	454	
PSEP-SL36-9-09N-P1B-15	N/A	N/A				82	490	
PSEP-SL36-9-09N-P1B-16	N/A	N/A				29	494	
38-101-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1921	Apr-18	147	820	
38-960-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1928	May-18	6	1,511	
44-1008-P1B-01 ⁽¹³⁾	N/A	N/A	2-Selection	1937	May-18	1	3	
38-143-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1939	Nov-18	96	428	
38-1102-P1B-01 ⁽¹³⁾	N/A	N/A	2-Selection	1938	May-18	8	404	
7043-P1B-01 ⁽¹³⁾	N/A	N/A	1-Project Initiation	1930	Mar-18	19	79	
127-P1B-01 ⁽¹³⁾	N/A	N/A	2-Selection	1944	Apr-18	1	219	
1004-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1945	Jul-18	6	422	
38-KWB-P1B-01	N/A	N/A	7-Close-out	Various	Oct-15	-	1,676	
38-514-P1B-01 ⁽¹³⁾	N/A	N/A	3-Project Definition	1945	Mar-18	23	403	
103-P1B-01 ⁽¹³⁾	N/A	N/A	2-Selection	1941	Jan-18	-	35	
41-17	57	3,580	5-Construction	1955	Sep-16	1,040	1,097	
Valves- SCG						3,245	147,613	
Methane Detectors						-	322	
Communications *						(27)	1,083	
Construction *						(184)	2,882	
Engineering *						490	7,647	
Training *						(25)	1,165	
Gas Control *						2	69	
Environmental *						(26)	448	
Supply Management *						372	4,473	
General Administration *						1,061	13,625	
Program Management Office *						(242)	4,036	
Total SoCalGas PSEP Pipeline and Valve Projects						23,962	945,799	

*General Management and Administration (GMA) pools. Dollars accumulated in GMA pools will be distributed to specific PSEP projects as work occurs on those specific projects.

Financial Footnotes:

- (A) Costs reflect actuals for the month of November and project-to-date costs from May 2012 to November 2016.
- (B) Project costs do not reflect year to date actuals. There is some lag time in getting costs posted.
- (C) Costs are in nominal direct dollars.
- (D) Cost recovery will include indirects and applicable loaders.
- (E) As of November 2016, the SCG balance in the Pipeline Safety and Reliability Memorandum Account reflects a balance of \$44,616,281 which includes regulatory account interest and is reduced for costs incurred prior to February 24, 2011 (i.e., the effective date of R.11-02-019), and reflects approximately \$1.9 million of amortization revenues to-date (\$0.6 million monthly).
- (F) As of November 2016, the SDGE balance in the Pipeline Safety and Reliability Memorandum Account reflects a balance of \$83,973 which includes regulatory account interest and is reduced for costs incurred prior to February 24, 2011 (i.e., the effective date of R.11-02-019).
- (G) As of November 2016, the SCG balance in the Safety Enhancement Expense Balancing Account (SEEBA) reflects a balance of \$109,572,958 which includes balancing account interest and reflects approximately \$10.5 million of amortization revenues to-date (\$3.5 million monthly).
- (H) As of November 2016, the SDGE balance in the Safety Enhancement Expense Balancing Account (SEEBA) reflects a balance of \$7,914,538 which includes balancing account interest and approximately \$750k of amortization revenues to-date (\$250K monthly). Pursuant to D.16-08-003, SoCalGas and SDGE are authorized interim rate recovery of 50% of the recorded balances, reduced by amounts currently under review by the Commission, in their SEEBA, Safety Enhancement Capital Cost Balancing Account (SECCBA) and PSRMA.
- (I) As of November 2016, the SCG balance in the Safety Enhancement Capital Cost Balancing Account (SECCBA) reflects a balance of \$67,729,694 which includes balancing account interest and reflects approximately \$3.6 million of amortization revenues to-date (\$1.2 million monthly).
- (J) As of November 2016, the SDGE balance in the Safety Enhancement Capital Cost Balancing Account (SECCBA) reflects a balance of \$11,225,411 which includes balancing account interest and approximately \$600K of amortization revenues to-date (\$200K monthly).

Project Footnotes:

- (1) Stage Categories: - These categories represent seven stages of a pipeline project's lifecycle: Stage 1 Project Initiation, Stage 2 Selection, Stage 3 Project Definition, Stage 4 Detailed Design/Procurement, Stage 5 Construction, Stage 6 Start-up/Turn-over, and Stage 7 Close-out.
- (2) The number shown, e.g. 67% is the stress level of the majority of the pipe segments.
- (3) L-2000, because of its length, will be remediated in four phases. 2000-A, 2000-Bridge, 2000-C and 2000-West. 2000-C has been regrouped with 2001 West-C and will be executed as one project under "2000-C/2001W-C Desert Bundle."
- (4) 2001-West will be remediated as three projects: 2001 West-A, 2001 West-B, and 2001 West-C. This pipeline has been broken up into sections to report schedule progress. Part of the project requires separate planning and execution due to either location, permitting or constructability. 2001 West-C has been regrouped with 2000-C and will be executed as one project under "2000-C/2001W-C Desert Bundle."
- (5) 2000-0.18-XO1, 2000-0.18-XO2, and 2000-0.18-BO have been combined and will be remediated as one project under "2000-0.18-BO Crossover Piping".
- (6) This pipeline has been broken up into separate projects for reporting schedule progress. Part of the project requires separate planning and execution due to either location, permitting or constructability.
- (7) There are numerous storage fields, with too many lines to distinguish predominant pipe diameter, vintage, %SMYS and construction start dates for each Storage line. However Storage field project stage and construction start will only be reported.
- (8) Project 44-1008 has been renamed to project "44-1008 Section 2B".
- (9) Per PSEP filing, the extension of existing L-6914 (6914 Ext) will allow for the abandonment of 41-6000-2. For the purpose of this appendix, both pipelines will be reported under 41-6000-2.
- (10) Projects "42-66-1" and "42-66-2" have been merged as one project "42-66-1&2".
- (11) Project "Somis Station" has been renamed to "404-406 Somis Station".
- (12) Project "36-9-09 North Section 4" has been separated into 2 projects "36-9-09 North Section 4A" and "36-9-09 North Section 4B".
- (13) Construction start dates and lifecycle stages for Phase 1B projects are as of March 2016 and may be forecasted to change pending final CPUC approval.
- (14) Project name has been changed to include "(REPL)" at the end of the project name.
- (15) Project 41-30 is in the process of being descope.

SoCalGas and SDGE PSEP Project Status Report to the Commission for November 2016

Appendix A Active Projects Listing

Pipeline-SDG&E								
Pipeline Project	PSEP Filing Priority	Total Miles as Filed	Project Lifecycle Stage for November 2016 ⁽¹⁾	Predominant Vintage	Construction Start Date (Est.) Reported in November 2016	November 2016 Actuals (in \$1,000)	Project-to-Date as of November 2016 (in \$1,000)	
Line 1600 South	N/A	N/A	N/A	N/A	N/A	-	444	
PSRP Line 1600/3602 ⁽¹⁷⁾	N/A	47.00	4-Detailed Design		TBD	377	17,177	
49-28	1	4.89	5-Construction	1932	Sep-14	118	36,710	
49-17	2	5.812		1948				
49-17 East			5-Construction		Jun-15	5,764	47,587	
49-17 West			5-Construction		Oct-14	871	18,428	
49-25	4	2.278	6-Start Up/Turnover	1960	Aug-14	2	20,983	
49-32 (REPL) ⁽¹⁴⁾	5	0.06	Closed	1950	Jun-14	(2)	3,574	
49-16 ⁽⁶⁾	6	9.590		1955				
49-16 Pipeline			5-Construction		Mar-15	151	10,682	
49-16 4th & Palm			4-Detailed Design		Jun-17	7	452	
49-16 Gate Station			4-Detailed Design		Jun-17	13	303	
49-11	7	6.30	7-Close-out	1969	Jun-15	26	5,199	
49-26	10	2.615	5-Construction	1958	Oct-14	237	29,269	
49-14	14	2.45	Closed	1959	Sep-14	-	4,047	
49-15 ⁽⁶⁾	15	6.60		1950				
49-15 (REPL)			5-Construction		Nov-15	2,147	22,025	
49-15 Transmission			6-Start Up/Turnover		Nov-15	88	6,006	
49-22	16	4.04	Closed	1951	Apr-14	1	4,055	
49-13	18	3.46	6-Start Up/Turnover	1959	Jul-15	109	21,331	
49-32-L	N/A	0.115	5-Construction	1965	Aug-16	438	4,817	
49-20	3	0.040	N/A	N/A	Feb-17	-	-	
Valves						482	5,873	
Methane Detectors						-	104	
Communications *						8	17	
Construction *						(31)	155	
Engineering *						(80)	220	
Training *						-	57	
Gas Control *						-	10	
Environmental *						(2)	41	
Supply Management *						(70)	224	
General Administration *						116	1,207	
Program Management Office *						(108)	188	
Total SDG&E PSEP Pipeline and Valve Projects						10,662	261,184	

*General Management and Administration (GMA) pools. Dollars accumulated in GMA pools will be distributed to specific PSEP projects as work occurs on those specific projects.

Financial Footnotes:

(A) Costs reflect actuals for the month of November and project-to-date costs from May 2012 to November 2016.

(B) Project costs do not reflect year to date actuals. There is some lag time in getting costs posted.

(C) Costs are in nominal direct dollars.

(D) Costs recovery will include indirects and applicable loaders.

(E) As of November 2016, the SCG balance in the Pipeline Safety and Reliability Memorandum Account reflects a balance of \$44,616,281 which includes regulatory account interest and is reduced for costs incurred prior to February 24, 2011 (i.e., the effective date of R.11-02-019), and reflects approximately \$1.9 million of amortization revenues to-date (\$0.6 million monthly).

(F) As of November 2016, the SDGE balance in the Pipeline Safety and Reliability Memorandum Account reflects a balance of \$83,973 which includes regulatory account interest and is reduced for costs incurred prior to February 24, 2011 (i.e., the effective date of R.11-02-019).

(G) As of November 2016, the SCG balance in the Safety Enhancement Expense Balancing Account (SEEBA) reflects a balance of \$109,572,958 which includes balancing account interest and reflects approximately \$10.5 million of amortization revenues to-date (\$3.5 million monthly).

(H) As of November 2016, the SDGE balance in the Safety Enhancement Expense Balancing Account (SEEBA) reflects a balance of \$7,914,538 which includes balancing account interest and approximately \$750k of amortization revenues to-date (\$250k monthly). Pursuant to D.16-08-003, SoCalGas and SDG&E are authorized interim rate recovery of 50% of the recorded balances, reduced by amounts currently under review by the Commission, in their SEEBA, Safety Enhancement Capital Cost Balancing Account (SECCBA) and PSRMA.

(I) As of November 2016, the SCG balance in the Safety Enhancement Capital Cost Balancing Account (SECCBA) reflects a balance of \$67,729,694 which includes balancing account interest and reflects approximately \$3.6 million of amortization revenues to-date (\$1.2 million monthly).

(J) As of November 2016, the SDGE balance in the Safety Enhancement Capital Cost Balancing Account (SECCBA) reflects a balance of \$11,225,411 which includes balancing account interest and approximately \$600K of amortization revenues to-date (\$200K monthly).

Project Footnotes:

(6) This pipeline has been broken up into separate projects for reporting schedule progress. Part of the project requires separate planning and execution due to either location, permitting or constructability.

(14) Project name has been changed to include "(REPL)" at the end of the project name.

(17) The Pipeline Safety and Reliability Project (PSRP) (Line 1600/3602) was previously added to Appendix A and is the subject of Application 15-09-013 for a Certificate of Public Convenience and Necessity, which was filed consistent with D. 14-06-007 and is pending Commission review. Line 85 North and Line 85 South have been added and combined in Appendix A as Line 85.

SoCalGas and SDGE PSEP Project Status Report to the Commission for November 2016

Appendix A

Projects Remediated or Removed

Pipeline-SoCalGas		
Pipeline Project	November 2016 Actuals (in \$1,000)	Project-to-Date as of November 2016 (in \$1,000)
Line 36-8-01	-	-
Line 36-8-01-C	-	-
Line 36-8-06	-	-
Line 36-9-06	-	-
Line 36-9-06-A	-	-
Line 37-04	-	-
Line 37-18 J	-	41
Line 38-508	-	-
Line 38-516	-	-
Line 38-523	-	55
Line 38-528	-	22
Line 38-552	-	-
Line 38-959	-	-
Line 41-116BP1	-	8
Line 41-117	-	-
Line 41-181	-	28
Line 41-19	-	32
Line 41-25	-	1
Line 41-201	-	3
Line 41-207BR1	-	76
Line 41-35-1-KST2	-	-
Line 41-80	-	41
Line 44-719	-	1
Line 1003	-	-
Line 1003LT2	-	-
Line 1017BP1	-	-
Line 1017BP2	-	-
Line 1017BP3	-	-
Line 1017BR4	-	-
Line 1017BR5	-	-
Line 1017BR6	-	-
Line 1017BR7	-	-
Line 1018	-	-
Line 1020	-	85
Line 1024	-	2
Line 1025	-	-
Line 1171LT2	-	-
Line 1171LT1BP2	-	-
Line 1172 BP2ST1	-	-
Line 1172 BP2ST2	-	2
Line 1172 BP2ST3	-	-
Line 1172 BP2ST4	-	-
Line 1172 BP3	-	-
Line 1172 ID 2313	-	13
Line 169	-	-
Line 235 East	-	8
Line 247	-	18
Line 2001 East	-	92
Line 3000-261.73-BO	-	-
Line 3000-261.73-BR	-	-
Line 30-02	-	-
Line 30-02-U	-	-
Line 30-09-A	-	-
Line 30-6200	-	-
Line 30-32	-	-
Line 30-6209	-	-
Line 30-6292	-	-
Line 30-6543	-	-
Line 30-6799	-	-
Line 30-6799BR1	-	-
Line 317	-	-
Line 32-90	-	-
Line 35-10	-	-
Line 35-20	-	-
Line 35-20-A	-	15
Line 35-20-A1	-	-
Line 35-22	-	-
Line 35-39	-	-
Line 35-40	-	-
Line 35-6405	-	-
Line 35-6416	-	-
Line 35-6520	-	38
Line 36-1006	-	-
Line 36-6588	-	-
Line 36-7-04	-	-
Line 36-9-21BR1	-	-

SoCalGas and SDGE PSEP Project Status Report to the Commission for November 2016

Appendix A

Projects Remediated or Removed

Pipeline-SoCalGas		
Pipeline Project	November 2016 Actuals (in \$1,000)	Project-to-Date as of November 2016 (in \$1,000)
Line 37-49	-	-
Line 37-6180	-	-
Line 38-351	-	-
Line 408XO1	-	-
Line 41-04-I	-	8
Line 41-05	-	4
Line 41-05-A	-	-
Line 41-101	-	-
Line 41-128	-	-
Line 41-141	-	-
Line 41-17-A2	-	4
Line 41-17-F	-	-
Line 41-17-FST1	-	-
Line 41-198	-	-
Line 41-199	-	-
Line 41-25-A	-	-
Line 41-55	-	-
Line 41-83	-	-
Line 41-84	-	-
Line 41-84-A	-	-
Line 41-90	-	-
Line 41-6045	-	48
Line 41-6501	-	34
Line 42-12	-	-
Line 42-46	-	-
Line 42-46-F	-	-
Line 42-57	-	-
Line 43-1106	-	-
Line 43-34	-	-
Line 45-163	-	1
Line 53	-	-
Line 6100	-	-
Line 765-8.24-BO	-	-
Line 765BR4	-	-
Line 775	-	-
Line 775BO1	-	-
Line 8107	-	-
Line 4000	-	-
Total SoCalGas PSEP Pipeline Projects - Remediated or Removed	-	679

SoCalGas and SDGE PSEP Project Status Report to the Commission for November 2016

Appendix A

Projects Remediated or Removed

Pipeline-SDG&E		
Pipeline Project	November 2016 Actuals (in \$1,000)	Project-to-Date as of November 2016 (in \$1,000)
Line 49-18	-	-
Line 49-19	-	-
Line 49-27	-	-
Line 49-32 (Test)	-	-
Total SDG&E PSEP Pipeline Projects - Remediated or Removed	-	-

SoCalGas and SDGE PSEP Project Status Report to the Commission for November 2016

Appendix B - Active Valve Projects List					
Valve Projects	Oct-16 No. of Valves ⁽¹⁾	November-16 Project Lifecycle Stage ⁽²⁾	Construction Start Date (Est.) Reported in November-16	November-16 Total (in \$1,000)	Project-To-Date Total (in \$1,000)
Valves-SoCalGas					
Bain Street Station	2	Closed	Dec-13	-	883
Chino Station	5	Closed	Dec-13	-	997
Moreno Small	2	Closed	Jan-14	-	710
Prado Station	5	Closed	Jan-14	-	1,207
Haskell Station	2	Closed	Jan-14	-	698
Moreno Large	1	Closed	Jan-14	-	505
Whitewater Station	3	Closed	Mar-14	-	702
Santa Fe Springs	3	Closed	Mar-14	-	723
Arrow & Haven	1	Closed	May-14	-	965
235 - 335 Palmdale	6	Closed	Jun-14	18	6,771
Puente Station	2	Closed	Jan-14	-	16
Brea Station-1013	1	Closed	Oct-14	-	240
Newhall Station	7	Stage 5-6 Construction / Turnover	Jan-15	141	12,476
407 Sullivan Canyon-P1B ^{(7),(12)}	2	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Feb-18	1	1,089
Victoria Station	4	Closed	Dec-14	-	1,532
Alhambra Station	3	Stage 7 Close-out / Reconciliation	Apr-15	(1)	3,035
Pixley Station	3	Closed	Nov-14	-	1,339
2001W Seg 10-11-P1B ⁽¹²⁾	1	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Mar-17	-	491
SGV	3	Stage 7 Close-out / Reconciliation	Feb-15	-	5,037
Lampson	4	Stage 5-6 Construction / Turnover	Apr-15	63	7,755
Blythe ⁽³⁾					
Blythe (Cactus City)-P1B ⁽¹²⁾	1	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Aug-18	-	841
Blythe Station 2	2	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Jul-18	(40)	369
Banning Airport	2	Stage 7 Close-out / Reconciliation	Apr-15	1	2,160
Orange	3	Stage 5-6 Construction / Turnover	Apr-15	231	4,837
Palowalla-P1B ⁽¹²⁾	3	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Jan-18	(140)	2,033
L 1020	1	Stage 5-6 Construction / Turnover	Mar-15	13	1,194
New Desert	7	Stage 5-6 Construction / Turnover	Oct-14	42	8,988
El Segundo	6	Stage 5-6 Construction / Turnover	Apr-15	(61)	6,933
404-406 Valley	7	Stage 5-6 Construction / Turnover	Sep-15	(73)	2,631
Indio ⁽⁴⁾					
Indio 2014	4	Stage 5-6 Construction / Turnover	May-15	8	2,200
Indio 2016-P1B ⁽¹²⁾	6	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Mar-18	2	742
235-198.20 ⁽⁶⁾	N/A	N/A	N/A	-	1
L1004 MP 15.27 Carpinteria-P1B ⁽¹²⁾	1	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Jun-18	-	101
Santa Barbara - 1005 ⁽¹⁰⁾	1	Closed	Mar-15	1	403
L4000 MP 45.36 ⁽⁹⁾	1	Stage 5-6 Construction / Turnover	Sep-16	486	882
L4000 MP 53.00 ⁽⁸⁾	3	Stage 7 Close-out / Reconciliation	May-15	0	1,838
L4000 MP 69.00 MLV-P1B ⁽¹²⁾	1	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Sep-17	1	574
L4000 MP 80.08 MLV	3	Stage 7 Close-out / Reconciliation	May-15	-	1,239
L4002 MP 67.00 MLV ⁽⁶⁾	N/A	N/A	N/A	-	437
L1014 Brea	6	Stage 5-6 Construction / Turnover	Nov-15	389	6,402
L1014 Olympic	6	Stage 5-6 Construction / Turnover	Feb-16	255	6,502
L2003 East	7	Stage 5-6 Construction / Turnover	Sep-15	(28)	2,705
Banning 2001	6	Stage 5-6 Construction / Turnover	Apr-16	55	1,680
Questar Taps	6	Stage 5-6 Construction / Turnover	Sep-15	(8)	3,070
Quigley Station ⁽⁶⁾	N/A	N/A	N/A	-	29
Riverside 2001	5	Stage 5-6 Construction / Turnover	Oct-15	(99)	1,767
Aviation	10	Stage 5-6 Construction / Turnover	May-16	14	7,480
404 Ventura	4	Stage 5-6 Construction / Turnover	Feb-16	36	3,671
406 Ventura	5	Stage 5-6 Construction / Turnover	Nov-15	30	3,384
Honor Ranch - L225	5	Stage 5-6 Construction / Turnover	May-16	386	2,269
Los Alamitos ⁽⁶⁾	N/A	N/A	N/A	0	239
Haynes Station	3	Stage 5-6 Construction / Turnover	11/14/2016	75	542
Fontana MLVs 4000-4002	3	Stage 5-6 Construction / Turnover	Oct-16	264	1,191
Fontana Bundle - L4002	1	Stage 7 Close-out / Reconciliation	Jul-15	4	1,038
SL45-120 Section 2-P1B ^{(5),(12)}	1	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Sep-17	17	199
235-335 East	2	Stage 5-6 Construction / Turnover	Oct-16	(343)	883
L1017-P1B ⁽¹²⁾	3	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Apr-17	46	359
L1018-P1B ⁽¹²⁾	10	Stage 5-6 Construction / Turnover	Oct-16	355	1,045
L2000 Beaumont Riverside ⁽¹¹⁾					
L2000 Beaumont 2015 ⁽¹⁸⁾	3	Stage 5-6 Construction / Turnover	Aug-15	38	2,738
L2000 Beaumont 2016 ⁽¹⁸⁾	4	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Mar-17	-	-
L7000-P1B ⁽¹²⁾	9	Stage 5-6 Construction / Turnover	Sep-16	254	1,843
Taft-P1B ⁽¹²⁾	6	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Mar-17	53	832

Rainbow Bundle ⁽¹⁷⁾					
Rainbow ⁽¹⁷⁾	10	Stage 5-6 Construction / Turnover	May-16	(70)	3,699
Rainbow 2017 ⁽¹⁷⁾	2	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Apr-17	3	24
L2003 West	6	Stage 5-6 Construction / Turnover	Oct-15	225	3,108
Cabazon-P1B ⁽¹²⁾	3	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Nov-18	-	9
Banning 5000	2	Stage 5-6 Construction / Turnover	Oct-15	118	2,185
L85 Templin Highway MP 137.99-P1B ⁽¹²⁾	1	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Mar-18	-	84
43-121-P1B ⁽¹²⁾	2	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Aug-17	6	293
Adelanto-P1B ^{(12), (13)}	4	N/A	Sep-17	-	4
Apple Valley-P1B ⁽¹²⁾	1	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Dec-17	1	172
Burbank & Lindley-P1B ⁽¹²⁾	3	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Jul-19	-	27
Blythe COMMS-P1B ⁽¹²⁾	0	Stage 1 Project Initiation	Jun-18	-	3
Del Amo Station-P1B ^{(12), (13)}	6	N/A	Sep-18	1	8
Del Amo / Wilmington-P1B ⁽¹²⁾	1	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Jul-18	3	167
Haskell Station FM-P1B ^{(12), (13)}	1	N/A	Feb-18	-	5
L2002-P1B ⁽¹²⁾	0	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Dec-16	-	5
L4000 Victorville-P1B ⁽¹²⁾	13	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Jan-19	2	8
L6916-P1B ⁽¹²⁾	7	Stage 5-6 Construction / Turnover	11/8/2016	161	426
Needles COMMS-P1B ⁽¹²⁾	1	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Jul-17	-	3
Pico-P1B ^{(12), (13)}	8	N/A	May-18	-	87
Wilmington-P1B ^{(12), (13)}	5	N/A	Dec-18	1	217
L4002 MP 72.70-P1B ^{(12), (13)}	1	N/A	Sep-19	-	4
Brea Hacienda Bundle-P1B ⁽¹²⁾	10	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Oct-18	3	17
L4002 MP 86.44-FM-P1B ^{(12), (13)}	1	N/A	Jul-18	-	14
Yorba Station-P1B ^{(12), (13)}	1	N/A	Jan-19	-	2
Lampson Check Valves-P1B ⁽¹³⁾	1	Stage 1 Project Initiation	Aug-18	-	4
L324 Bundle-P1B ⁽¹³⁾	7	N/A	Mar-19	-	5
235-335 West Bundle-P1B ⁽¹³⁾	7	N/A	Mar-19	-	22
Glendale Bundle-P1B ⁽¹³⁾	10	N/A	Dec-18	2	7
Western/Del Rey Bundle-P1B ⁽¹³⁾	9	N/A	May-19	-	7
L8109 Bundle-P1B ⁽¹³⁾	6	N/A	May-19	-	3
Sepulveda Station-P1B ⁽¹⁵⁾	2	Stage 5-6 Construction / Turnover	Sep-16	192	455
Victorville COMMS-P1B ⁽¹²⁾	2	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Oct-17	17	135
Ventura Station Bundle-P1B ^{(12), (13), (16)}	6	N/A	Jun-17	-	3
Chestnut & Grand-P1B ⁽¹³⁾	4	N/A	Mar-18	-	5
L247 Goleta-P1B ⁽¹²⁾	1	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Sep-17	2	16
404-406 Ventura 2016 Bundle	3	Stage 5-6 Construction / Turnover	Oct-16	48	317
L225 Bundle-P1B ⁽¹²⁾	5	Stage 5-6 Construction / Turnover	Aug-16	-	-
SB County Bundle-P1B ⁽¹²⁾	3	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	May-17	34	474
Spence Station-P1B ⁽¹²⁾	4	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Jul-17	6	22
Carpenteria Bundle-P1B ^{(12), (16)}	2	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Aug-18	1	29
Santa Barbara Bundle-P1B ⁽¹²⁾	2	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Jan-19	1	28
Goleta Bundle-P1B ⁽¹²⁾	7	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Jan-19	2	67
L115 Bundle-P1B ⁽¹³⁾	12	N/A	Mar-18	-	1
Total SoCalGas Valves				3,243	147,613

Valve Projects	Valves ⁽¹⁾	October-16 Project Lifecycle Stage ⁽²⁾	Date (Est.) Reported	(in \$1,000)	Total
3010 Bundle	0	Stage 5-6 Construction / Turnover	Dec-14	-	126
1600 Bundle	0	Stage 5-6 Construction / Turnover	Dec-14	-	232
3600 Bundle	12	Stage 5-6 Construction / Turnover	Mar-15	6	3,893
49-11	1	Stage 5-6 Construction / Turnover	Sep-16	164	570
49-15 Transmission	2	Stage 5-6 Construction / Turnover	Nov-15	-	-
49-16 RCV ⁽¹⁴⁾	7	Stage 2-4 Engineering & Planning / Contract Bidding & Procurement	Mar-17		
49-16 RCV (4th & Palm)				1	11
49-16 RCV (La Mesa Gate)				1	13
49-16 RCV (Mass&Main)				1	152
49-32-L RCV	1	Stage 5-6 Construction / Turnover	Aug-16	(6)	507
49-28	1	Stage 5-6 Construction / Turnover	Oct-16	202	247
3011 and 2010	2	Stage 5-6 Construction / Turnover	Oct-16	114	122
Total SDG&E Valves				482	5,873

Footnotes:

- (1) Number subject to change based on design and constructability. Backflow Prevention (BFP2) and Flow Meters (FM) are for check valves and reg. station modifications. Counts do not include BFP1 (regulator station modification) projects and communications only projects.
- (2) Stage Categories: categories represent the stage of a valve project's lifecycle. Stage 1 Project Initiation, Stage 2-4 Engineering & Planning/ Contract Bidding & Procurement, Stage 5-6 Construction/ Turnover, and Stage 7 Close-out/ Reconciliation.
- (3) The original Blythe Bundle included 4 valves. Due to permit constraints, this original bundle has been regrouped into Blythe (Cactus City) and Blythe Station 2. Each new bundle will have separate schedules.
- (4) The original Indio Bundle included 12 valves. Due to permit constraints, this original bundle has been regrouped into Indio 2014 and Indio 2016. Each new bundle will have separate schedules.
- (5) Valve Bundle "33-120 Fault Isolation" has been renamed to "SL45-120 Section 2".
- (6) Valve Project is in the process of being descope from PSEP. Final costs are being adjusted accordingly.
- (7) Valve Bundle "407 San Vicente" has been renamed to "407 Sullivan Canyon".
- (8) Valve "4000 MP 57.00" has been renamed to "L4000 MP 53.00".
- (9) Valve "4000 MP 41.72" has been renamed to "L4000 MP 45.36".
- (10) Valve "1005-18.04-0" has been renamed to "Santa Barbara Bundle - 1005".
- (11) Valve Bundle "L2000 Beaumont Riverside" has been regrouped into two projects: "L2000 Beaumont Riverside 2015" and "L2000 Beaumont Riverside 2016".
- (12) Projects have been moved to Phase 1B and have been renamed to include "P1B".
- (13) New valve bundle is currently being initiated, with information about project scope, stage, and/or construction start date available at a later time.
- (14) Valve Bundles "49-16 RCV (4th & Palm)", "49-16 RCV (La Mesa Gate)", and "49-16 RCV (Mass&Main)" have been regrouped as one valve bundle "49-16 RCV".
- (15) Valve bundle "Willow Station" has been renamed to "Sepulveda Station" bundle.
- (16) Valve bundle "Carpenteria Bundle-P1B" has been renamed to "Carpenteria Bundle-P1B" bundle. Valve bundle "Ventura Bundle-P1B" has been renamed "Ventura Station Bundle-P1B".
- (17) Valve Project "Rainbow" has been split to "Rainbow Bundle" & "Rainbow Bundle 2017". "Rainbow Bundle" and "Rainbow Bundle 2017" now have separate scope, cost and schedule for each of these projects.
- (18) The number of valves has changed due to change in project requirements.
- (19) Minor variances in Total balance of SoCalGas' Valves from Appendix A and B are due to rounding.

SoCalGas and SDGE PSEP Project Status Report to the Commission for November 2016
Appendix C - Records Review and Interim Safety Measure Costs

SCG	(in \$1,000)	
	-	Project-To-Date Total
Leak Survey and Pipeline Patrol	-	684
Records Review	-	14,707
Pressure Protection Equipment	-	196
Other Remediation	-	447
Total SCG Records Review and Interim Safety Measure Costs	-	16,035

SDGE	(in \$1,000)	
	-	Project-To-Date Total
Leak Survey and Pipeline Patrol	-	70
Records Review	-	1,098
Pressure Protection Equipment	-	3
Other Remediation	-	1
Total SDGE Records Review and Interim Safety Measure Costs	-	1,172

Footnotes:

(A) Costs reflect actuals for the month of November and project-to-date costs from May 2012 to November 2016.

(B) Project costs do not reflect year to date actuals. There is some lag time in getting costs posted.

(C) Costs are in nominal direct dollars.

(D) Cost recovery will include indirects and applicable loaders.

(E) As of November 2016, the SCG balance in the Pipeline Safety and Reliability Memorandum Account reflects a balance of \$44,616,281 which includes regulatory account interest and is reduced for costs incurred prior to February 24, 2011 (i.e., the effective date of R.11-02-019), and reflects approximately \$1.9 million of amortization revenues to-date (\$0.6 million monthly).

(F) As of November 2016, the SDGE balance in the Pipeline Safety and Reliability Memorandum Account reflects a balance of \$83,973 which includes regulatory account interest and is reduced for costs incurred prior to February 24, 2011 (i.e., the effective date of R.11-02-019).