

Worksheet Table 5-1
Pacific Gas and Electric Company
2019 Gas Transmission and Storage Rate Case
Workpapers Supporting Chapter 5, Transmission Pipe
Summary of Expense and Capital Expenditures
in New Cost Model

Worksheet Table 5-1a
Summary of Expenses

Line No.	Description	2012 Recorded	2013 Recorded	2014 Recorded	2015 Recorded	2016 Recorded	2017 Forecast	2018 Forecast	2019 Forecast	2020 Forecast	2021 Forecast	Total 2019-2021
1	In-Line Inspection (ILI)	20,384,043	23,120,223	9,574,690	64,545,872	102,581,302	78,248,709	69,680,541	125,820,110	-	-	660,469,268
2	Direct Assessment (DA)	11,357,214	(48,772,629)	5,289,237	30,957,908	39,378,882	41,177,542	37,242,702	35,106,668	-	-	154,340,705
3	Hydrostatic Testing	118,007,821	125,291,730	127,178,209	110,918,920	136,015,502	146,470,983	177,861,185	155,701,652	-	-	142,580,178
4	Pipe Replacements	5,306,478	4,385,321	3,027,928	5,454,331	3,007,697	7,724,830	4,466,898	4,110,946	-	-	33,833,173
5	Earthquake Fault Crossings	415,035	386,510	221,741	2,003,280	1,409,764	1,038,000	1,183,295	1,372,366	-	-	13,870,162
6	Geo-Hazard Threat Identification and Mitigation	1,101,020	184,576	72,504	2,123,361	1,429,025	3,101,626	2,322,610	2,841,304	-	-	16,907,957
7	Programs to Support Integrity Management (IM)	41,350,296	14,409,350	(4,514,848)	16,446,293	15,084,263	4,774,450	12,433,249	14,247,861	-	-	78,709,806
8	Emergency Response Programs	1,207,843	3,399,085	7,180,259	4,078,605	5,035,755	2,640,499	2,978,201	5,280,814	-	-	28,688,635
9	Class Location Changes	1,988,682	3,408,079	1,795,037	2,175,731	978,134	2,640,499	1,047,134	3,305,377	-	-	12,883,626
10	Shallow and Exposed Pipe (including Water and Levee Crossings)	945,273	285,508	1,457,259	1,422,929	2,371,940	1,682,171	1,179,704	1,060,529	-	-	13,227,222
11	Work Required by Others (WRO)	754,673	223,865	1,858,810	2,582,713	609,676	768,174	628,592	716,158	-	-	16,907,957
12	Pipe Investigation and Field Engineering	2,231,060	7,500,303	8,165,792	5,582,713	11,609,622	6,532,159	7,763,585	8,743,352	-	-	46,470,423
13	Other Transmission Asset Family Expense	542,648	3,189,096	2,866,903	888,935	462,745	4,008,945	4,261,095	-	-	-	28,688,635
14	Total Expenses	205,602,086	136,989,016	164,193,122	249,583,506	319,994,307	298,483,222	323,046,293	358,307,137	465,725,148	464,470,423	1,376,444,288

Worksheet Table 5-1b
Summary of Capital Expenditures

Line No.	Description	2012 Recorded	2013 Recorded	2014 Recorded	2015 Recorded	2016 Recorded	2017 Forecast	2018 Forecast	2019 Forecast	2020 Forecast	2021 Forecast	Total 2019-2021
15	In-Line Inspection	63,400,111	87,339,540	46,693,239	130,790,113	138,599,306	81,704,906	92,619,406	213,536,031	220,234,860	228,705,347	660,469,268
16	Direct Assessment (DA)	89,1210	21,519	16,978	5,182,144	5,182,144	949,921	710,994	49,897,689	51,485,238	59,977,077	154,340,705
17	Hydrostatic Testing	250,829,438	333,653,708	278,502,788	103,959,990	84,849,933	53,659,978	38,953,462	48,897,418	51,878,258	49,866,753	42,580,178
18	Pipe Replacements	91,345,599	47,013,982	36,116,836	98,826,984	103,681,806	130,658,078	38,953,462	47,211,355	12,815,652	15,088,486	33,833,173
19	Earthquake Fault Crossings	1,545,599	7,933,382	3,327,285	1,131,200	684,806	2,100,000	6,200,000	4,487,087	4,638,036	4,784,071	13,870,162
20	Emergency Response Programs	42,027,850	70,824,271	326,761	67,981,094	50,860,344	83,061,659	69,033,496	55,410,110	60,233,394	57,583,717	173,227,222
21	Emergency Response Programs	1,434,467	76,761	6,681,368	15,314,236	4,376,656	14,800,000	14,850,000	5,498,978	5,636,167	5,772,922	16,907,957
22	Shallow and Exposed Pipe (including Water and Levee Crossings)	3,568,120	5,562,687	1,694,524	21,974,036	16,835,190	21,600,000	21,600,000	25,446,442	25,245,953	27,017,412	78,709,806
23	Gas Gathering	215,789	1,433,616	206,604	1,308,695	940,808	4,100,000	2,280,000	3,971,063	4,096,832	4,216,222	12,283,117
24	Work Required by Others	9,478,611	20,436,300	35,484,366	10,414,776	22,000,000	18,600,000	18,600,000	27,866,274	28,741,815	-	86,194,724
25	Other Transmission Asset Family Capital	25,661,631	7,024,041	(3,089,954)	24,653,592	10,414,776	15,509,234	3,141,868	-	-	-	-
26	Total Capital Expenditures	460,091,347	581,246,821	525,735,623	463,964,628	421,395,988	430,974,922	661,000,135	446,248,717	465,725,148	464,470,423	1,376,444,288