

**Public Service Company of Colorado
Gas Labor Productivity
From 2010 to 2020**

**Hearing Exhibit 120, Attachment APF-12
Proceeding No. 22AL-___G
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Year	(Note 1)	(Note 2)	Gas Output / Labor Input	Annual % Change	Annual	Annual	Annual
	Weather Normalized Billed Gas Sales (Dth)	Gas Labor Expense (@ 2020 dollars)			Compounded % Rate from 2010	Compounded % Rate from 2014	Compounded % Rate from 2017
2010	238,294,237	116,015,245	2.05399				
2011	234,244,837	120,537,705	1.94333	-5.39%	-1.37%		
2012	234,728,513	126,030,399	1.86248	-4.16%	-1.94%		
2013	247,135,955	128,618,339	1.92147	3.17%	-1.11%		
2014	248,164,083	127,358,693	1.94854	1.41%	-0.75%		
2015	247,130,111	137,766,867	1.79383	-7.94%	-1.68%	-4.41%	
2016	253,288,695	126,351,000	2.00464	11.75%	-0.27%	-0.61%	
2017	262,547,125	125,147,785	2.09790	4.65%	0.21%	0.42%	
2018	294,567,516	129,287,285	2.27840	8.60%	1.30%	1.74%	5.84%
2019	328,513,004	135,984,640	2.41581	6.03%	1.82%	2.34%	5.89%
2020	326,238,976	141,087,339	2.31232	-4.28%	1.19%	1.49%	3.77%

Note 1 Source: Gas Databank file provided by Energy and Demand Forecasting (Billed Gas Sales per Month totals)

Note 2 Source: FERC Form 1 "Distribution of Salaries and Wages" applicable to the Electric System, and FERC Form 1 "Electric Operations and Maintenance Expenses" with respect to Pension and Benefit amounts.

Year	Total Gas Operation and Maintenance (page 355, In 62(b), FERC Form 1)	Construction Gas Plant (page 355, In 69(b), FERC Form 1)	Plant Removal Gas Plant (page 355, In 74(b), FERC Form 1)	Gas Pension and Benefits (Appendix A, IS Detial FERC Act 926)	Total Gas Labor Costs	CPI (BASE = 2020) (1)	Total Gas Labor Costs (2020 Dollars)
2010	\$62,056,683	\$16,250,959	\$656,970	\$18,778,232	\$97,742,844	0.84250	\$116,015,245
2011	\$65,292,580	\$16,793,786	\$610,280	\$22,062,673	\$104,759,319	0.86910	\$120,537,705
2012	\$66,355,869	\$18,353,697	\$896,880	\$26,195,121	\$111,801,567	0.88710	\$126,030,399
2013	\$72,045,583	\$18,759,985	\$941,164	\$24,022,635	\$115,769,367	0.90010	\$128,618,339
2014	\$71,368,147	\$23,150,048	\$987,833	\$20,988,969	\$116,494,997	0.91470	\$127,358,693
2015	\$77,612,186	\$24,129,063	\$1,086,159	\$23,339,489	\$126,166,897	0.91580	\$137,766,867
2016	\$80,784,928	\$11,885,630	\$1,054,430	\$23,440,294	\$117,165,282	0.92730	\$126,351,000
2017	\$85,401,051	\$10,620,557	\$848,993	\$21,656,866	\$118,527,467	0.94710	\$125,147,785
2018	\$88,624,793	\$12,554,882	\$1,416,992	\$22,837,857	\$125,434,524	0.97020	\$129,287,285
2019	\$94,042,183	\$16,783,959	\$1,156,163	\$22,343,322	\$134,325,627	0.98780	\$135,984,640
2020	\$97,682,223	\$18,625,428	\$936,377	\$23,843,311	\$141,087,339	1.00000	\$141,087,339

(1) Derived from Attachment No. APF-12, page 3 of 3.

CPI-All Urban Consumers (Current Series)
Original Data Value

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Series Id: CUUR0000SA0
Not Seasonally Adjusted
Series Title: All items in U.S. city average, all urban consumers,
Area: U.S. city average
Item: All items
Base Period: 1982-84=100
Years: 2000 to 2020

Year	1982-84=100	2019=1.0
2000	172.2	0.6654
2001	177.1	0.6843
2002	179.9	0.6951
2003	184.0	0.7109
2004	188.9	0.7299
2005	195.3	0.7546
2006	201.6	0.7789
2007	207.342	0.8011
2008	215.303	0.8319
2009	214.537	0.8289
2010	218.056	0.8425
2011	224.939	0.8691
2012	229.594	0.8871
2013	232.957	0.9001
2014	236.736	0.9147
2015	237.017	0.9158
2016	240.007	0.9273
2017	245.120	0.9471
2018	251.107	0.9702
2019	255.657	0.9878
2020	258.811	1.0000

Source: Bureau of Labor Statistics

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 Workpaper

Sales & Del WN Billing Total		
Month	Year	
Jan	2008	38,936,106
Feb	2008	35,423,471
Mar	2008	28,153,788
Apr	2008	24,129,382
May	2008	16,628,343
Jun	2008	12,463,153
Jul	2008	11,337,481
Aug	2008	11,530,010
Sep	2008	11,397,936
Oct	2008	14,299,676
Nov	2008	20,041,984
Dec	2008	29,730,541
Jan	2009	36,540,630
Feb	2009	31,330,335
Mar	2009	27,739,110
Apr	2009	23,754,168
May	2009	17,910,955
Jun	2009	12,746,596
Jul	2009	10,658,955
Aug	2009	11,108,377
Sep	2009	11,111,602
Oct	2009	13,187,167
Nov	2009	19,910,442
Dec	2009	30,340,830
Jan	2010	36,883,739
Feb	2010	32,769,246
Mar	2010	29,809,340
Apr	2010	22,612,581
May	2010	14,322,550
Jun	2010	12,434,407
Jul	2010	10,888,380
Aug	2010	10,858,157
Sep	2010	10,565,032
Oct	2010	11,620,741
Nov	2010	17,652,050
Dec	2010	27,878,013
Jan	2011	34,273,177
Feb	2011	31,682,628

Mar	2011	28,284,764
Apr	2011	20,906,077
May	2011	15,579,896
Jun	2011	13,694,122
Jul	2011	10,181,811
Aug	2011	11,588,097
Sep	2011	10,405,135
Oct	2011	11,343,524
Nov	2011	17,897,813
Dec	2011	28,407,792
Jan	2012	37,174,456
Feb	2012	30,923,054
Mar	2012	27,701,775
Apr	2012	19,428,391
May	2012	15,052,750
Jun	2012	12,319,924
Jul	2012	10,438,015
Aug	2012	11,123,213
Sep	2012	10,924,642
Oct	2012	12,770,902
Nov	2012	18,237,374
Dec	2012	28,634,017
Jan	2013	37,269,797
Feb	2013	32,888,985
Mar	2013	26,230,465
Apr	2013	23,923,170
May	2013	18,448,556
Jun	2013	12,723,952
Jul	2013	11,839,637
Aug	2013	11,028,256
Sep	2013	11,016,605
Oct	2013	13,821,489
Nov	2013	19,023,381
Dec	2013	28,921,664
Jan	2014	38,631,659
Feb	2014	30,984,857
Mar	2014	28,969,285
Apr	2014	24,199,476
May	2014	15,366,173
Jun	2014	13,281,814
Jul	2014	10,503,493
Aug	2014	10,667,153

Sep	2014	10,475,598
Oct	2014	13,914,200
Nov	2014	18,419,429
Dec	2014	32,750,945
Jan	2015	37,068,038
Feb	2015	30,965,364
Mar	2015	27,602,431
Apr	2015	21,869,056
May	2015	15,857,957
Jun	2015	13,333,684
Jul	2015	10,831,017
Aug	2015	11,356,483
Sep	2015	12,107,898
Oct	2015	14,198,320
Nov	2015	19,214,947
Dec	2015	32,724,918
Jan	2016	36,316,793
Feb	2016	33,099,672
Mar	2016	30,555,430
Apr	2016	23,090,751
May	2016	18,118,563
Jun	2016	14,492,350
Jul	2016	12,321,592
Aug	2016	13,163,874
Sep	2016	12,599,374
Oct	2016	13,037,194
Nov	2016	18,442,562
Dec	2016	28,050,539
Jan	2017	38,734,812
Feb	2017	33,991,216
Mar	2017	30,303,253
Apr	2017	21,132,694
May	2017	17,335,951
Jun	2017	14,643,493
Jul	2017	11,982,241
Aug	2017	14,050,230
Sep	2017	13,314,022
Oct	2017	16,073,831
Nov	2017	22,030,073
Dec	2017	28,955,308
Jan	2018	39,695,327
Feb	2018	34,218,609

Mar	2018	33,254,800
Apr	2018	24,160,662
May	2018	18,599,641
Jun	2018	15,651,466
Jul	2018	14,438,919
Aug	2018	16,408,028
Sep	2018	18,223,117
Oct	2018	19,303,348
Nov	2018	25,529,754
Dec	2018	35,083,845
Jan	2019	43,925,698
Feb	2019	38,580,207
Mar	2019	35,542,798
Apr	2019	29,239,930
May	2019	22,933,608
Jun	2019	19,799,539
Jul	2019	14,302,653
Aug	2019	15,706,047
Sep	2019	19,413,628
Oct	2019	20,603,178
Nov	2019	32,002,904
Dec	2019	36,462,815
Jan	2020	44,177,944
Feb	2020	36,941,703
Mar	2020	38,013,477
Apr	2020	28,820,587
May	2020	24,127,981
Jun	2020	19,414,507
Jul	2020	17,909,171
Aug	2020	17,627,546
Sep	2020	18,833,299
Oct	2020	19,759,958
Nov	2020	25,770,020
Dec	2020	34,842,783