Exhibit No.:

Issues: Revenue Requirement

Witness: Michelle Bocklage

Sponsoring Party: MO PSC Staff
Type of Exhibit: Surrebuttal Testimony

Case No.: GR-2014-0086

Date Testimony Prepared: August 8, 2014

## MISSOURI PUBLIC SERVICE COMMISSION

## **REGULATORY REVIEW DIVISION**Tariff, Safety, Economic & Engineering Analysis

SURREBUTTAL TESTIMONY

OF

MICHELLE BOCKLAGE

SUMMIT NATURAL GAS OF MISSOURI, INC.

CASE NO. GR-2014-0086

Jefferson City, Missouri August 2014

> Date 8 19-14 Reporter 45 File No GR-2011-COS6

## BEFORE THE PUBLIC SERVICE COMMISSION

## OF THE STATE OF MISSOURI

In the Matter of Summit Natur Missouri Inc.'s Filing of Revis To Increase its Annual Revo Natural Gas Service	sed Tariffs ) Case No.: GR-2014-0086
AFFIDAV	IT OF MICHELLE BOCKLAGE
STATE OF MISSOURI ) ) s COUNTY OF COLE )	s
the preparation of the followin consisting of <u>3</u> pages of S that the answers in the followin	wful age, on her oath states: that she has participated in g Surrebuttal Testimony in question and answer form, urrebuttal Testimony to be presented in the above case, g Surrebuttal Testimony were given by her; that she has rth in such answers; and that such matters are true to the 3.
	Michelle Bocklage  Michelle Bocklage
Subscribed and sworn to before	me this 7th day of August, 2014.
LAURA BLOCH Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: June 21, 2015 Commission Number: 11203914	Notary Public

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3	$\mathbf{OF}$
4	MICHELLE BOCKLAGE
5	SUMMIT NATURAL GAS OF MISSOURI, INC.
6	CASE NO. GR-2014-0086
7	EXECUTIVE SUMMARY1

1	SURREBUTTAL TESTIMONY
2	$\mathbf{OF}$
3	MICHELLE BOCKLAGE
4	SUMMIT NATURAL GAS OF MISSOURI, INC.
5	CASE NO. GR-2014-0086
6	Q. Please state your name and business address.
7	A. My name is Michelle Bocklage and my business address is Missouri Public
8	Service Commission, P. O. Box 360, Jefferson City, Missouri 65102.
9	Q. Who is your employer and what is your present position?
10	A. I am employed by the Missouri Public Service Commission ("Commission")
11	and my title is Rate & Tariff Examiner III, Tariff/Rate Design Section, Energy Unit, Utility
12	Operations, Regulatory Review Division.
13	Q. Are you the same Michelle Bocklage that filed rebuttal testimony in this case
14	on July 11, 2014?
15	A. Yes.
16	EXECUTIVE SUMMARY
17	Q. What is the purpose of your surrebuttal testimony?
18	A. The purpose of this testimony is to address the rebuttal testimony of Summit
. 19	Natural Gas of Missouri, Inc. ("SNG" or "Company") witness Tyson Porter regarding the
20	weather normalizations performed by Staff.
21	Q. Does Staff agree with Mr. Porter's summary of what he refers to as errors
22	made by Staff concerning the Weather Normalized Average Usage Per Customer?
23	A. No. On page 4 of Mr. Porter's testimony he stated, "Staff uses heating value
24	for some customer classes and volume measurement for others." Staff is unsure what Mr.

Porter is referencing in regard to Staff's use of "heating value" in the weather normalization calculations.

The files that Staff utilized for customer count and usage are the Branson-Rogersville Retail Demand, Gallatin-Warsaw Retail Demand, and Missouri Consumption Report provided by SNG in its original response to DR 0001 and DR 0097. The Branson-Rogersville Retail Demand and the Gallatin-Warsaw Retail Demand files provided by SNG do not match the customer usage that SNG also provided in the Missouri Consumption Report for General Service ("GS"), Commercial Service ("CS"), Optional General Service ("OGS") and Large General Service ("LGS") for the test year ending September 30, 2013. Due to the inconsistency in customer usages between the Branson-Rogersville Retail Demand or Gallatin-Warsaw Retail Demand files and the Missouri Consumption Report file provided by SNG, Staff's customer usages were off for the GS, OGS, and LGS classes in the Branson segment of the weather normalization spreadsheet. After Staff's direct filing, Mr. Porter requested that Staff revise the data and Staff agreed to make the revisions for consistency. Staff was satisfied after further review that its revisions were consistent.

With regard to Mr. Porter's rebuttal testimony concerning "errors" regarding the test year data totals, SNG had only provided Staff with eleven months of data to calculate its test year totals. Later, Staff received twelve full months of data. Staff then entered the twelve months of data and modified Staff's formulas. However, not all of the changes reflected a full twelve months data so some of the initial calculations performed were still based on eleven months of data. Upon discovery of this issue, Staff made the necessary corrections to reflect a full twelve months of data in its calculations.

<sup>&</sup>lt;sup>1</sup> SNG provided this report of its total Ccf consumption by month for each of its service areas in response to Staff data request 0097.

Q. Does Staff agree with the "Avg Usage From Staff" that Mr. Porter provided in "Rebuttal Schedule TDP-2 Updated Weather Normalization Average Usages as of 12-31-2014"?

A. No. Mr. Porter's testimony is unclear. Mr. Porter filed "Rebuttal Schedule TDP-2, Updated Weather Normalization Average Usages as of 12-31-2014" including a column titled "Avg Usage From Staff" with a footnote indicating that those values were provided by Staff in "Bocklage — Summit Weather Normalization Spreadsheet updated Bases Sales." However, the values in the "Avg Usage from Staff" volume do not match the values Staff provided in "Bocklage—Summit Weather Normalization Spreadsheet updated Bases Sales." Mr. Porter is unclear in his testimony. On page 4 of Mr. Porter's rebuttal testimony he stated that SNG made corrections to Staff's workpaper to come up with the values in Rebuttal Schedule TDP-2. In response to the issues raised in Mr. Porter's rebuttal testimony, Staff also modified its workpaper. However, Staff's modifications do not match what Mr. Porter alleges that Staff provided as "Avg Usage From Staff" in his Rebuttal Schedule TDP-2. Staff is unclear how Mr. Porter derived the values listed in the column "Avg Usage From Staff." Included as Surrebuttal, Schedule MB-1 reflects Staff's updated Normalized Sales Per Customer.

- Q. Does this conclude your surrebuttal testimony?
- A. Yes, it does.

		Normalized Sa	湖 海線	ier	
Billing	Ccf	Ccf	Ccf		Normal Usage
Month	Actual	Adjustment	Normal	Customers	per Customer
Oct	4,180	-3,975	205	350	0.586
Nov	11,332	1,354	12,686	354	35.799
Dec	17,460	7,286	24,746	363	68.223
Jan	44,804	4,546	49,350	365	135.091
Feb	41,100	-968	40,132	369	108.6615
Mar	39,911	-5,843	34,068	372	91.6599
Apr	27,090	-1,784	25,306	371	68.1470
May	17,281	-1,911	15,370	373	41.2609
Jun	5,495	-241	5,254	368	14.2666
Jul	3,748	39	3,787	358	10.5774
Aug	2,958	77	3,035	352	8.6210
Sep	3,449	1,494	4,943	351	14.0839
	218,808	75	218,883	4,347	50.3568

D:III.	主张·# 1 1953年	Normalized Sa.	ve Harr	er	Named Hear
Billing Month	Ccf Actual	Adjustment -	Ccf Normal	Customers	Normal Usage per Customer
					6 / vid 
Oct	655	-590	65	93	0.696
Nov	2,068	203	2,271	95	23.816
Dec	3,244	1,064	4,308	95	45.228
Jan	6,237	667	6,904	96	71.592
Feb	5,585	-145	5,440	100	54.617
Mar	7,314	-877	6,437	100	64.166
Apr	3,782	-292	3,490	109	31.895
May	2,098	-323	1,775	113	15.698
Jun	568	-41	527	112	4.707
Jul	470	7	477	107	4.443
Aug	496	13	509	111	4.596
Sep	517	267	784	113	6.942
	33,034	-47	32,987	1,246	26.474

Normalized Sales per Customer							
Billing	Ccf	Ccf	Ccf		Normal Usage		
Month	Actual	Adjustment	Normal	Customers	per Customer		
Oct	28,235	-2,546	25,689	158	162,7331		
Nov	37,815	854	38,669	157	245.9173		
Dec	40,973	4,523	45,496	158	287.0726		
Jan	57,423	2,931	60,354	166	364.1257		
Feb	46,150	-633	45,517	170	267.5884		
Mar	53,134	-3,802	49,332	170	289.8240		
Apr	44,602	-1,150	43,452	168	257.9568		
May	38,310	-1,241	37,069	170	217.6907		
Jun	32,821	-158	32,663	170	192,4276		
Jul 🏥	<u>3</u> 0,850	27	30,877	172	179.4078		
Aug	34,710	54	34,764	173	200.5482		
Sep	31,130	1,047	32,177	173	185.9914		
	476,153	-96	476,057	2,007	237,2498		

		(Small Commercial)				
		Normalized Sa	les per Custon	ner		
Billing	Ccf	Ccf	Cef	7.50 500 14 7.50 14	Normal Usage	
Month	Actual	Adjustment	Normal	Customers	per Customer	
Oct	298	-220	78	17	4.463	
Nov	627	77	704	18	39.097	
Dec	1,207	410	1,617	18	88.334	
Jan	2,824	270	3,094	19	159.174.	
Feb	2,875	-62	2,813	21	132.264.	
Mar	2,972	-403	2,569	23	111.875	
Apr	2,439	-150	2,289	28	81.7468	
May	1,650	-186	1,464	33	44.946	
Jun	816	-25	791	34	23.314	
Jul	764	4	768	34	22.546	
Aug	845	8	853	33	25.874	
Sep_	554	157	711	33	21.539	
	17,871	-121	17,750	312	56.909	

Month         Actual         Adjustment         Normal         Customers         per Customer           Oct         96,636         -4,736         91,900         114         808.9266           Nov         120,964         1,599         122,563         114         1075.1177           Dec         121,356         8,558         129,914         116         1119.6189           Jan         125,825         5,392         131,217         118         1112.0111           Feb         94,856         -1,101         93,755         114         819.2988           Mar         106,383         -6,358         100,025         110         908.1406           Apr         114,665         -1,966         112,699         111         1011.2253	DISTRICT: BRANSON CLASS: CS/LGS						
Month         Actual         Adjustment         Normal         Customers         per Customer           Oct         96,636         -4,736         91,900         114         808.9266           Nov         120,964         1,599         122,563         114         1075.1177           Dec         121,356         8,558         129,914         116         1119.6185           Jan         125,825         5,392         131,217         118         1112.0111           Feb         94,856         -1,101         93,755         114         819.2988           Mar         106,383         -6,358         100,025         110         908.1406           Apr         114,665         -1,966         112,699         111         1011.2253           May         108,164         -2,067         106,097         110         966.9895           Jun         106,328         45         106,373         113         939.3509           Aug         125,164         91         125,255         114         1100.8424           Sep         110,120         1,813         111,933         116         964.9437			Normalized Sa	les per Custom	er		
Oct         96,636         -4,736         91,900         114         808.9266           Nov         120,964         1,599         122,563         114         1075.1177           Dec         121,356         8,558         129,914         116         1119.6189           Jan         125,825         5,392         131,217         118         1112.0111           Feb         94,856         -1,101         93,755         114         819.2988           Mar         106,383         -6,358         100,025         110         908.1406           Apr         114,665         -1,966         112,699         111         1011.2253           May         108,164         -2,067         106,097         110         966.9895           Jul         106,328         45         106,373         113         939.3509           Aug         125,164         91         125,255         114         1100.8424           Sep         110,120         1,813         111,933         116         964.9437	Billing	Ccf	Ccf	Ccf	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Normal Usage	
Nov         120,964         1,599         122,563         114         1075.1177           Dec         121,356         8,558         129,914         116         1119.6189           Jan         125,825         5,392         131,217         118         1112.0111           Feb         94,856         -1,101         93,755         114         819.2988           Mar         106,383         -6,358         100,025         110         908.1406           Apr         114,665         -1,966         112,699         111         1011.2253           May         108,164         -2,067         106,097         110         966.9895           Jun         106,069         -270         105,799         112         942.4624           Jul         106,328         45         106,373         113         939.3509           Aug         125,164         91         125,255         114         1100.8424           Sep         110,120         1,813         111,933         116         964.9437	Month	Actual	Adjustment	Normal	Customers	per Customer	
Nov         120,964         1,599         122,563         114         1075.1177           Dec         121,356         8,558         129,914         116         1119.6189           Jan         125,825         5,392         131,217         118         1112.0111           Feb         94,856         -1,101         93,755         114         819.2988           Mar         106,383         -6,358         100,025         110         908.1406           Apr         114,665         -1,966         112,699         111         1011.2253           May         108,164         -2,067         106,097         110         966.9895           Jun         106,069         -270         105,799         112         942.4624           Jul         106,328         45         106,373         113         939.3509           Aug         125,164         91         125,255         114         1100.8424           Sep         110,120         1,813         111,933         116         964.9437						10 (20) 10 (20) 10 (20) 10 (20)	
Dec         121,356         8,558         129,914         116         1119.6185           Jan         125,825         5,392         131,217         118         1112.0111           Feb         94,856         -1,101         93,755         114         819.2988           Mar         106,383         -6,358         100,025         110         908.1406           Apr         114,665         -1,966         112,699         111         1011.2253           May         108,164         -2,067         106,097         110         966,9895           Jun         106,069         -270         105,799         112         942.4624           Jul         106,328         45         106,373         113         939.3509           Aug         125,164         91         125,255         114         1100.8424           Sep         110,120         1,813         111,933         116         964.9437	Oct	96,636	-4,736	91,900	114	808.9266	
Jan         125,825         5,392         131,217         118         1112.0111           Feb         94,856         -1,101         93,755         114         819.2988           Mar         106,383         -6,358         100,025         110         908.1406           Apr         114,665         -1,966         112,699         111         1011.2253           May         108,164         -2,067         106,097         110         966.9895           Jun         106,069         -270         105,799         112         942.4624           Jul         106,328         45         106,373         113         939.3509           Aug         125,164         91         125,255         114         1100.8424           Sep         110,120         1,813         111,933         116         964.9437	Nov	120,964	1,599	122,563	114	1075.1177	
Feb         94,856         -1,101         93,755         114         819,2988           Mar         106,383         -6,358         100,025         110         908,1406           Apr         114,665         -1,966         112,699         111         1011,2253           May         108,164         -2,067         106,097         110         966,9895           Jun         106,069         -270         105,799         112         942,4624           Jul         106,328         45         106,373         113         939,3509           Aug         125,164         91         125,255         114         1100,8424           Sep         110,120         1,813         111,933         116         964,9437	Dec	121,356	8,558	129,914	116	1119.6189	
Mar         106,383         -6,358         100,025         110         908.1406           Apr         114,665         -1,966         112,699         111         1011.2253           May         108,164         -2,067         106,097         110         966.9895           Jun         106,069         -270         105,799         112         942.4624           Jul         106,328         45         106,373         113         939.3509           Aug         125,164         91         125,255         114         1100.8424           Sep         110,120         1,813         111,933         116         964.9437	Jan	125,825	5,392	131,217	118	1112.0111	
Apr       114,665       -1,966       112,699       111       1011.2253         May       108,164       -2,067       106,097       110       966,9895         Jun       106,069       -270       105,799       112       942.4624         Jul       106,328       45       106,373       113       939.3509         Aug       125,164       91       125,255       114       1100.8424         Sep       110,120       1,813       111,933       116       964.9437	Feb	94,856	-1,101	93,755	114	819.2988	
May         108,164         -2,067         106,097         110         966,9895           Jun         106,069         -270         105,799         112         942,4624           Jul         106,328         45         106,373         113         939,3509           Aug         125,164         91         125,255         114         1100,8424           Sep         110,120         1,813         111,933         116         964,9437	Mar	106,383	-6,358	100,025	110	908.1406	
Jun     106,069     -270     105,799     112     942.4624       Jul     106,328     45     106,373     113     939.3509       Aug     125,164     91     125,255     114     1100.8424       Sep     110,120     1,813     111,933     116     964.9437	Apr	114,665	-1,966	112,699	111	1011.2253	
Jul     106,328     45     106,373     113     939.3509       Aug     125,164     91     125,255     114     1100.8424       Sep     110,120     1,813     111,933     116     964.9437	May	108,164	-2,067	106,097	110	966.9895	
Aug     125,164     91     125,255     114     1100.8424       Sep     110,120     1,813     111,933     116     964.9437	Jun 🥞	106,069	-270	105,799	112	942.4624	
Sep         110,120         1,813         111,933         116         964.9437	Jul 🚆	106,328	45	106,373	113	939,3509	
	Aug	125,164	91	125,255	114	1100.8424	
1,336,530 1,003 1,337,533 1,363 981.5560	Sep	110,120	1,813	111,933	116	964.9437	
		1,336,530	1,003	1,337,533	1,363	981.5560	

Normalized Sales per Customer							
Billing	Ccf	Ccf	Ccf		Normal Usage		
Month	Actual	Adjustment	Normal	Customers	per Customer		
Oct	65,531	-52,271	13,260	4,577	2.8968		
Nov	197,963	17,848	215,811	4,644	46.4693		
Dec	283,862	96,061	379,923	4,755	79.9078		
Jan	504,928	60,048	564,976	4,797	117.7769		
Feb	495,930	-12,756	483,174	4,841	99.8176		
Mar	525,511	-76,814	448,697	4,858	92.3631		
Apr	397,138	-23,524	373,614	4,869	76.7351		
May	214,730	-24,824	189,906	4,810	39,4813		
Jun	89,627	-3,105	86,522	4,712	18.3602		
Jul	42,085	508	42,593	4,622	9.2142		
Aug	41,208	1,007	42,215	4,587	9.2030		
Sep	47,345	19,652	66,997	4,589	14.5995		
	2,905,858	1,830	2,907,688	56,662	51.3168		

		Normalized Sa	les per Custom	ier -	
Billing	Ccf	Ccf	Ccf		Normal Usage
Month	Actual	Adjustment	Normal	Customers	per Customer
Oct	44,613	-38,442	6,171	4,068	1.517
Nov	139,890	13,134	153,024	4,130	37.053
Dec	216,356	70,977	287,333	4,245	67.685
Jan	375,984	45,101	421,085	4,354	96.716
Feb	382,765	-9,724	373,041	4,459	83.659
Mar	390,152	-58,832	331,320	4,496	73.689
Apr	304,282	-18,096	286,186	4,526	63.232
May	157,709	-19,099	138,610	4,472	30.995
Jun	64,137	-2,391	61,746	4,385	14.080
Jul	29,707	388	30,095	4,268	7.051
Aug	28,584	770	29,354	4,237	6.928
Sep	33,231	15,019	48,250	4,238	11.385
	2,167,410	-1,195	2,166,215	51,878	41.756

		Normalized So	iles per Custom	10T	
Billing	Ccf	Ccf	Ccf		Normal Usage
Month	Actual	Adjustment	Normal	Customers	per Customer
100 mg					
Oct	67,952	-32,070	35,882	1,055	33.9986
Nov	147,732	10,950	158,682	1,071	148.1911
Dec	203,141	58,915	262,056	1,096	239.1301
Jan	362,976	36,963	399,939	1,110	360.3965
Feb	338,376	-7,855	330,521	1,120	295.0586
Mar	388,055	-47,157	340,898	1,121	304.1530
Apr	275,021	-14,462	260,559	1,125	231.6265
May	156,244	-15,394	140,850	1,121	125.6508
Jun	83,209	-1,924	81,285	1,098	74.0533
Jul	59,838	313	60,151	1,070	56.2047
Aug	62,242	619	62,861	1,059	59.3624
Sep	62,807	11,999	74,806	1,053	71.0407
	2,207,593	897	2,208,490	13,098	168.6069

		Normalized Sa	les per Custon	1er				
Billing	Ccf	Ccf	Ccf		Normal Usage			
Month	Actual	Adjustment	Normal	Customers	per Customer			
152.7 152.7 152.7								
Oct	5,729	-4,393	1,336	298	4.4872			
Nov	13,574	1,477	15,051	297	50.6162			
Dec	23,882	8,019	31,901	307	103.8697			
Jan	43,931	5,194	49,125	321	152.9941			
Feb	47,139	-1,130	46,009	332	138.6996			
Mar	50,699	-6,975	43,724	341	128.0932			
Apr	39,439	-2,177	37,262	349	106.8953			
May	18,423	-2,342	16,081	351	45.7886			
Jun	8,272	-299	7,973	351	22.6864			
Jul	6,218	50	6,268	350	17.8989			
Aug	4,674	99	4,773	348	13.7058			
Sep	5,246	1,970	7,216	356	20.2703			
	267,226	-507	266,719	4,002	66.6475			

Normalized Sales per Customer						
Billing	Ccf	Cef	Ccf		Normal Usage	
Month	Actual	Adjustment	Normal	Customers	per Customer	
	72.22	02.224	45.557	02	540.050.	
Oct Nov	73,331 145,512	9,705	45,557	83	548.8784 1801.1502	
Dec	207,200	52,615	155,217 259,815	89	2923.5036	
Jan	274,115	33,861	307,976	92	3336.2279	
Feb	280,942	-7,544	273,398	98	2798.7040	
Mar	269,350	-46,072	223,278	99	2245,4061	
Apr	191,538	-14,274	177,264	101	1758.1619	
May	107,469	-15,508	91,961	103	896.7574	
Jun	51,553	-2,004	49,549	104	477.4348	
Jul	28,550	330	28,880	103	281.3331	
Aug	35,530	632	36,162	98	368.2478	
Sep	39,202	12,298	51,500	98	525.5058	
	1,704,292	-3,736	1,700,556	1,153	1474.264	

Normalized Sales per Customer					
Billing	Ccf	Ccf	Ccf		Normal Usage
Month	Actual	Adjustment	Normal	Customers	per Customer
	1942 1941 — — 1942				
Oct_	24,922	-9,352	15,570	1,241	12.545
Nov	76,245	13,429	89,674	1,267	70.763.
Dec	104,093	21,081	125,174	1,297	96.479
Jan_	167,495	19,066	186,561	<u>1,3</u> 17	141.709
Feb_	181,687	-4,677	177,010	1,324	133.680
Mar	149,917	-30,546	119,371	1,324	90.186.
Apr	98,811	-20,700	78,111	1,322	59.0935
May	60,820	-9,008	51,812	1,319	39.2780
Jun	13,701	-1,520	12,181	1,291	9.4373
Jul	7,579	0	7,579	1,257	6.029
Aug	7,874	292	8,166	1,240	6.585
Sep	8,066	6,197	14,263	1,224	11.6528
	901,210	-15,738	885,472	15,423	57.4138

Normalized Sales per Customer						
Billing	Ccf	Ccf	Ccf	1400 1600 1600 1600	Normal Usage	
Month	Actual	Adjustment	Normal	Customers	per Customer	
			194. 194.			
Oct	5,657	-2,004	3,653	191	19.1613	
Nov	13,546	2,803	16,349	190	86.2098	
Dec	21,138	4,355	25,493	192	132.6811	
Jan	37,232	3,886	41,118	192	213.7832	
Feb	41,563	-955	40,608	194	209.4875	
Mar	34,770	-6,276	28,494	195	146.1475	
Apr	22,574	-4,266	18,308	195	93.7554	
May	14,291	-1,864	12,427	196	63.5153	
Jun	4,264	-317	3,947	193	20.4265	
Jul	3,194	0	3,194	190	16.8105	
Aug	3,432	62	3,494	189	18.4872	
Sep	3,471	1,342	4,813	190	25.3311	
22/2014 PART - 124	205,132	-3,235	201,897	2,307	87.5261	

		Normaliz <u>ed</u> Sa	les per Custon	ier .		
Billing	Ccf	Ccf	Ccf		Normal Usage	
Month	Actual	Adjustment	Normal	Customers	per Customer	
1 64 Ay Web you Garage			<u> </u>		35 ( 75) 100 ( 75) 100 ( 75) 100 ( 75) 100 ( 75)	
Oct	13,409	-4,239	9,170	51	181.450	
Nov	37,973	6,016	43,989	51	862.533	
Dec	41,263	9,225	50,488	51	989.9583	
Jan	69,074	8,222	77,296	51	1515.6111	
Feb	79,651	-2,005	77,646	51	1522.4626	
Mar	63,260	-13,102	50,158	51	983.4904	
Apr	45,364	-8,855	36,509	51	718.7872	
May	26,749	-3,801	22,948	50	458.9580	
Jun	6,538	-655	5,883	50	117.6528	
Jul 3	4,278	0	4,278	50	85.5600	
Aug	4,774	131	4,905	50	98.101	
Sep	8,580	2,818	11,398	50	227.961	
	400,913	-6,245	394,668	606	650.913	

Normalized Sales per Customer							
Billing	Ccf	Ccf	Ccf		Normal Usage		
Month	Actual	Adjustment	Normal	Customers	per Customer		
Oct	12,566	-5,295	7,271	774	9.3982		
Nov	37,490	24	37,514	789	47.5496		
Dec	47,327	10,427	57,754	801	72.1380		
Jan	82,040	4,277	86,317	820	105.3240		
Feb	82,933	-4,106	78,827	834	94.5340		
Mar	74,666	-16,937	57,729	838	68.9002		
Apr	46,915	-8,076	38,839	836	46.4789		
May	29,198	-3,954	25,244	830	30.4278		
Jun	7,744	-514	7,230	815	8.8737		
Jul	4,894	87	4,981	800	6.2233		
Aug	5,069	144	5,213	796	6.5509		
Sep	5,106	2,275	7,381	799	9.2379		
	435,948	-21,651	414,297	9,730	42.5812		

	Normalized Sales per Customer						
Billing	Ccf	Ccf	Ccf		Normal Usage		
Month	Actual	Adjustment	Normal	Customers	per Customer		
Oct	6,563	-2,022	4,541	197	23.0507		
Nov	16,124	9	16,133	198	81.3049		
Dec	21,592	3,919	25,511	201	127.1514		
Jan	36,604	1,581	38,185	202	188,9738		
Feb	34,898	-1,486	33,412	201	166.0213		
Mar	31,646	-6,151	25,495	203	125.6562		
Apr	18,824	-2,933	15,891	202	78.5205		
May	11,285	-1,447	9,838	202	48,6013		
Jun	6,334	-187	6,146	198	31.0025		
Jul	5,059	32	5,091	196	25.9834		
Aug	4,914	53	4,967	193	25.7337		
Sep	5,379	833	6,212	195	31.8553		
	199,222	-7,801	191,420	2,389	80.1179		

Normalized Sales per Customer						
Billing	Ccf	Ccf	Ccf		Normal Usage	
Month	Actual	Adjustment	Normal	Customers	per Customer	
(1)						
Oct	22,802	-4,945	17,857	40	446.4245	
Nov	31,029	22	31,051	40	776.2640	
Dec	33,438	9,173	42,612	39	1092.6035	
Jan	80,647	3,770	84,417	40	2110.4195	
Feb	62,114	-3,736	58,379	42	1389.9691	
Mar	76,009	-15,334	60,675	42	1444.6464	
Apr	50,546	-7,506	43,040	43	1000.9251	
May	42,965	-3,702	39,263	43	913.0884	
Jun	19,281	-490	18,792	43	437.0131	
Jul	12,348	84	12,432	43	289.1186	
Aug	9,817	141	9,957	43	231.5674	
Sep	9,286	2,211	11,497	43	267.3813	
	450,282	-20,311	429,971	501	858.2250	

		Normalized Sa	les per Custom	er	
Billing	Ccf	Ccf	Ccf		Normal Usage
Month	Actual	Adjustment	Normal	Customers	per Customer
(20-1-10) 	r1				1
Oct			- Table		#DIV/0!
Nov		0		0	#DIV/0!
Dec	- B	0		0	#DIV/0!
Jan J		0	- 46	0	#DIV/0!
Feb		0		0	#DIV/0!
Mar	19,069	-4,307	14,762	244	60.501
Apr	16,867	-4,253	12,614	504	25.027
May	11,570	-2,797	8,773	672	13.055
Jun	5,369	-418	4,951	760	6.513
Jul	4,725	78	4,803	824	5.828
Aug	4,723	155	4,878	979	4.982
Sep	6,589	2,929	9,518	1,178	8.079
	68,912	-8,613	60,299	5,161	11.683

		Normalized Sa	les per Custon	ier	
Billing	Ccf	Ccf	Ccf		Normal Usage
Month	Actual	Adjustment	Normal	Customers	per Customer
Oct		0			#DIV/0!
Nov				0	#DIV/0!
Dec	-	0	- 1	0	#DIV/0!
Jan		0		0	#DIV/0!
Feb	- 2	0		0	#DIV/0!
Mar	5,226	-999	4,227	29	145.7669
Apr	5,314	-1,004	4,310	61	70.6487
May	5,095	-642	4,453	79	56.3729
Jun	4,470	-99	4,371	92	47.5126
Jul	3,711	18	3,729	96	38.8410
Aug	4,509	33	4,542	108	42.0591
Sep	5,164	616	5,780	127	45.5124
	33,489	-2,076	31,413	592	53.0619

		Normalized Sa	les per Custo	mer	
Billing	Cof	Ccf	Ccf		Normal Usage
Month	Actual	Adjustment	Normal	Customers	per Customer
Oct		0		0	#DIV/0!
Nov		0		0	#DIV/0!
Dec	- ·	0		0	#DIV/0!
Jan	- 4	0	- 1	0	#DIV/0!
Feb	-	0	- 3	<u>.</u> 이용	#DIV/0!
Mar	558	-277	281	2	140.5085
Apr	1,905	-265	1,640	4	410.0363
May	1,763	-131	1,632	4	408.0945
Jun	2,102	-17	2,085	4	521.1798
Jul 4	2,161	4	2,165	6	360.9094
Aug	2,198	9	2,207	7	315.2429
Sep	2,201	176	2,377	9	264.0620
evantina cean	12,888	-501	12,387	36	344.0828