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June 27, 2005

Ms. Blanca S. Bayo, Director
Division of the Commission Clerk and Administrative Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee FL 32399-0870

Dear Ms. Bayo:

Enclosed is Gulf Power Company's 2006 Cost of Service Load Research Plan
which is filed pursuant to Order No. 13026.

Sincerely,

A handwritten signature in cursive script that reads "Susan D. Ritenour".

Enclosure

DOCUMENT NUMBER-DATE

06153 JUN 29 05

FPSC-COMMISSION CLERK

2006 Cost of Service
Load Research Plan
GULF POWER COMPANY
Docket No. 820491-EU
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GULF POWER COMPANY
Cost of Service Load Research Plan
2006

June 2005

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INTRODUCTION

The purpose of this load research plan is to ensure compliance with the Cost of Service Load Research Rule (referred to as the Rule), Docket No. 820491-EU, Order No. 13026, issued 02-23-84 by the Florida Public Service Commission.

This rule requires that all subject utilities shall provide for load research sampling of all rate classes that account for more than one percent of their annual retail sales and that the sampling plan shall be designed to provide estimates of the summer and winter peak demand by class and the averages of the twelve monthly coincident peaks for each class within plus or minus 10 percent relative accuracy at the 90 percent confidence level. However, the Rule was amended January 6, 2004, to change the requirement for Rate GS: "The sampling plan shall be designed to provide estimates of the summer and winter peak demands for the General Service Non-Demand rate class within plus or minus 15 percent at the 90 percent confidence interval." Another revision to the Rule states that each subject utility shall submit a revised sampling plan to the Commission no less than every three years. Previously, the Rule stated that the plan submission must occur every two years.

Provided in Table 1 are Gulf Power's rate classes subject to this rule and their 2003 energy relationship to the total retail energy sales. As shown on this table, rate classes RS, GS, GSD, LP, LPT, RTP, CISR/CSA and SBS meet the Rule's threshold which causes them to be included in the Cost of Service Load Research Plan.

TABLE 1

**GULF POWER COMPANY
Energy By Rate**

<u>Rate</u>	<u>2003 MWh</u>	<u>% of Total Energy</u>
RS	5,058,291	46.66%
GS	277,337	2.56%
GSD	2,413,180	22.26%
LP	578,099	5.33%
LPT	1,434,589	13.23%
RTP	435,038	4.01%
OSI/II	98,502	0.91%
OS-III	25,345	0.23%
OS-IV	4,063	0.04%
PX	87,905	0.81%
SBS	143,435	1.32%
CISR/CSA	284,650	2.63%
TOTAL RETAIL (1)	10,840,434	100.00%

(1) Excludes unbilled, Interdepartmental, company use and losses.

PREVIOUS SAMPLE DESIGN PLAN

The 2003 Load Research Study used the combined ratio estimator methodology for sample size estimates in all rate classes. Sample points were allocated to the various strata using the Neyman allocation procedure. Provided in Table 2 is a summary of the 2003 sample size for each of the applicable rate classes and the strata allocation variable with the strata limits.

The RS rate class, which represents approximately 47 percent of the total Company's annual kWh retail sales, was prestratified into six strata based on housing type and winter peak month usage. The break points were 1000 kWh for multifamily and 1450 and 2500 kWh for single family detached.

The GS rate class sample design was prestratified by kWh into four strata based on winter peak month usage with break points at 650, 1350, and 2250 kWh. The GS class accounts for only 2.5 percent of the Company's annual kWh retail sales.

The GSD rate class, accounting for 22 percent of the Company's annual kWh retail sales, was prestratified on the winter peak month kW demand with strata break points of 20.0 kW, 50.0 kW and 130.0 kW.

The LP rate class was prestratified into two groups. The first stratum contained a random sampling of 30 customers out of the total group of customers whose billing demand during January was lower than 800 kW. The second stratum was a census of all customers whose billing demand was 800 kW or higher. The LP rate

class accounts for 5.3 percent of the Company's annual kWh retail sales.

The LPT rate class was prestratified into two groups. The first stratum contained a random sampling of 20 customers out of the total group of customers whose billing demand during January was lower than 1,000 kW. The second stratum was a census of all customers whose billing demand was 1,000 kW or higher. The LPT rate class accounts for approximately 13 percent of the Company's annual kWh retail sales.

The SBS rate class customers, the RTP rate class customers, and the CISR/CSA customers were 100 percent metered, thus requiring no sample design.

PREVIOUS STUDY ACCURACY

The relative accuracy of the 2003 load research data based on the sample design described above is provided in Table 3 and the results obtained in this study were used in the design of the 2006 Load Research Study. All rate classes achieved better than ten percent accuracy at the ninety percent confidence interval for the summer and winter peak period as well as for the averages of the twelve monthly coincident peaks.

TABLE 2

GULF POWER COMPANY
2003 Cost of Service Load Research Rule Sample Size

<u>Rate</u>	<u>Strata Allocation</u>	<u>Sample Size</u>	
RS	1) MF GT 1000 kWh	21	
	2) MF 0-1000 kWh	20	
	3) MH	30	
	4) SFD 1451-2500 kWh	52	
	5) SFD GE 2501 kWh	52	
	6) SFD 0-1450 kWh	<u>50</u>	
	TOTAL	225	
GS	1) 0-650 kWh	107	
	2) 651-1350 kWh	95	
	3) 1351-2250 kWh	89	
	4) over 2250 kWh	<u>89</u>	
	TOTAL	380	
GSD	1) 0-20.0 kW	31	
	2) 20.1-50.0 kW	35	
	3) 50.1-130.0 kW	52	
	4) over 130.0 kW	<u>42</u>	
	TOTAL	160	
LP	1) Less than 800 kW	30	
	2) 800 kW and greater	<u>24</u>	(census)
	TOTAL	54	
LPT	1) Less than 1000 kW	20	
	2) 1000 kW and greater	<u>29</u>	(census)
	TOTAL	49	
RTP	1) All customers	7	(census)
SBS	All customers	2	(census)
CISR/CSA	All customers	2	(census)
	TOTAL	<u>879</u>	

Table 3

GULF POWER COMPANY
 Load Research Data
January, 2003 to December, 2003

RATE CLASS RS			RATE CLASS GS		
<u>2003</u>	<u>Estimated CPKW</u>	<u>Relative Accuracy</u>	<u>2003</u>	<u>Estimated CPKW</u>	<u>Relative Accuracy</u>
Winter Peak	1,465,727	7.31%	Winter Peak	54,901	8.89%
Summer Peak	1,037,645	5.29%	Summer Peak	65,023	7.30%
12 Month Avg.	935,610	2.56%	12 Month Avg.	49,541	4.07%

RATE CLASS GSD			RATE CLASS LP		
<u>2003</u>	<u>Estimated CPKW</u>	<u>Relative Accuracy</u>	<u>2003</u>	<u>Estimated CPKW</u>	<u>Relative Accuracy</u>
Winter Peak	328,170	7.31%	Winter Peak	66,376	6.11%
Summer Peak	470,592	3.99%	Summer Peak	108,386	4.21%
12 Month Avg.	378,462	2.87%	12 Month Avg.	83,705	2.96%

RATE CLASS LPT			RATE CLASS CISR/CSA		
<u>2003</u>	<u>Estimated CPKW</u>	<u>Relative Accuracy</u>	<u>2003</u>	<u>Estimated CPKW</u>	<u>Relative Accuracy</u>
Winter Peak	152,142	1.53%	Winter Peak	28,954	0.00%
Summer Peak	219,442	0.60%	Summer Peak	39,495	0.00%
12 Month Avg.	189,640	0.44%	12 Month Avg.	35,956	0.00%

RATE CLASS RTP			RATE CLASS SBS		
<u>2003</u>	<u>Estimated CPKW</u>	<u>Relative Accuracy</u>	<u>2003</u>	<u>Estimated CPKW</u>	<u>Relative Accuracy</u>
Winter Peak	38,856	0.00%	Winter Peak	0	0.00%
Summer Peak	34,966	0.00%	Summer Peak	25,257	0.00%
12 Month Avg.	46,653	0.00%	12 Month Avg.	13,528	0.00%

2006 SAMPLE DESIGN PLAN

This 2006 sample design plan uses the data collected from the 2003 Load Research Study as required by the Cost of Service Load Research Rule, which states that ". . . any new or revised plan shall be developed using data from the utility's most current load research to determine the required sampling plan to achieve the precision required . . .".

The combined ratio estimator methodology was used for the sample size estimates for this 2006 sample plan. The formulas for this plan using this method are provided in Table 4. The definitions for the variables for these formulas are provided in Table 5. Stratified random sampling was used within each rate class, except those rate classes which were census-metered, to achieve better accuracy with fewer sample points. The actual calculations for each rate class, which provide sample size determinations based on the Neyman allocation methods, are provided in the description of each rate class within this study plan.

In all rate classes where census metering is not applicable, a new sample will be drawn from the existing population and the recorders deployed to those premises.

A summary of strata allocation and sample size for all rate classes is shown in Table 9.

TABLE 4
 GULF POWER COMPANY
Formulas for Sample Plan

I. Sample Size Estimates Using Combined Ratio Estimator:

$$n = \frac{\left[\sum_{h=1}^L W_h \sqrt{F_h} \right]^2}{\left[\frac{D \left(\frac{\hat{T}_y}{N} \right)}{1.65} \right]^2 + \frac{1}{N} \sum_{h=1}^L W_h F_h}$$

$$F_h = S_{yh}^2 + \left(\hat{R}^2 * S_{xh}^2 \right) - 2 \hat{R} r_h * S_{yh} * S_{xh}$$

$$\hat{T}_y = \hat{R} * T_x$$

$$\hat{R} = \frac{\sum_{h=1}^L W_h \bar{y}_h}{\sum_{h=1}^L W_h \bar{x}_h}$$

II. Neyman Allocation of Sample Points to Strata:

$$n_h = \frac{W_h S_{yh}}{\sum_{h=1}^L W_h S_{yh}} * n$$

TABLE 5

GULF POWER COMPANY
Definitions for Formulas

n	=	Sample Size Estimate
n_h	=	Stratum Sample Size
W_h	=	Stratum Weight
D	=	Percent Relative Accuracy (0.1 or 0.15 for Rate GS)
\hat{T}_y	=	Estimated Population CPKW
N	=	Population Number of Customers
\hat{R}	=	Ratio Estimator
T_x	=	Population kWh
\bar{Y}_h	=	Stratum Average CPKW
S_{yh}	=	Stratum Standard Deviation of CPKW
\bar{X}_h	=	Stratum Average Monthly kWh
S_{xh}	=	Stratum Standard Deviation of Monthly kWh
r_h	=	Stratum Correlation Coefficient between CPKW & Monthly kWh

Subscripts

h	=	Stratum number
y	=	CPKW variable
x	=	Monthly kWh variable

Residential Rate Class

The 2006 RS rate class study will use a similar design to that used in 2003. A two-way sample design was used that incorporated a primary stratification variable of housing type and a secondary stratification variable of kWh for the single-family detached and multifamily housing types only. The only changes to the 2006 study are the breakpoints. The kWh breakpoint for multifamily will be 900 kWh and the two breakpoints for single family detached will be 925 kWh and 1,675 kWh.

The Neyman allocation of sample to strata for the 2006 study is as follows:

STR	PRIMARY	SECONDARY	WINTER		2006 INSTALLED
	STRATA DESCRIPTION	STRATA DESCRIPTION	WSTD CPKW	MIN n	
1	Multifamily	gt 900 kWh	0.31	10	20
2	Multifamily	0-900 Kwh	0.34	11	21
3	Mobile Home		0.53	17	33
4	Single Family Detached	926 to 1675 kWh	0.84	27	53
5	Single Family Detached	ge 1675 kWh	0.78	24	49
6	Single Family Detached	0-925 kWh	0.78	24	49
			3.57	113	225

Additional data and study design calculations for this rate class are provided in Table 6.

TABLE 6

**RATE CLASS RS
 STRATIFIED ON 2005 PREMISE TYPE AND JANUARY KWH
 SIX STRATA**

01/2003 PEAK

STRATUM	WEIGHT	S.S.	]=====CPKW DATA=====]				]=====KWH DATA=====]				(F)	CORR.
			AVERAGE	WGT AVG	STD DEV	WGT STD	AVERAGE	WGT AVG	STD DEV	WGT STD		
MF-GT900	0.103310	18	4.65	0.48	2.97	0.31	1310.67	135.40	456.66	47.18	0.20	0.791092
MF-LE900	0.163534	23	2.05	0.33	2.07	0.34	516.78	84.51	253.35	41.43	0.30	0.464857
MOBILE	0.092847	28	4.29	0.40	5.69	0.53	983.29	91.30	837.18	77.73	0.32	0.846963
SF- 925*1675	0.220025	53	5.47	1.20	3.84	0.84	1333.00	293.29	240.27	52.86	0.80	0.330793
SF-GE1676	0.221794	67	8.65	1.92	3.50	0.78	2516.63	558.17	675.70	149.87	0.81	0.301074
SF-LE925	0.198490	29	2.25	0.45	3.94	0.78	470.31	93.35	280.70	55.72	0.74	0.321807
=====												
TOTAL				4.78		3.57		1256.0295936			3.17	

RATIO R_HAT = 0.00381
 POP. # CUST.:337182 POP. ENERGY : 435351716
 POP. CPKW : 1656922 POP. KW/C 4.91

ESTIMATES FOR 90% C.I., 10% RELATIVE ACCURACY
 MEAN PER UNIT SAMPLE SIZE ESTIMATE = 151.30
 RATIO METHOD SAMPLE SIZE ESTIMATE = 112.67

07/2003 PEAK

STRATUM	WEIGHT	S.S.	]=====CPKW DATA=====]				]=====KWH DATA=====]				(F)	CORR.
			AVERAGE	WGT AVG	STD DEV	WGT STD	AVERAGE	WGT AVG	STD DEV	WGT STD		
MF-GT900	0.103310	17	3.04	0.31	2.36	0.24	1677.53	173.31	960.63	99.24	0.21	0.574179
MF-LE900	0.163534	22	1.69	0.28	1.08	0.18	1192.36	194.99	635.06	103.85	0.09	0.894855
MOBILE	0.092847	26	2.07	0.19	2.02	0.19	934.69	86.78	751.74	69.80	0.12	0.768012
SF- 925*1675	0.220025	54	3.65	0.80	1.86	0.41	1813.81	399.08	696.70	153.29	0.33	0.602667
SF-GE1676	0.221794	67	4.30	0.95	2.20	0.49	2217.30	491.78	873.17	193.66	0.32	0.753115
SF-LE925	0.198490	30	2.91	0.58	1.94	0.38	1330.70	264.13	779.66	154.75	0.24	0.780082
=====												
TOTAL				3.12		1.89		1610.0796879			1.31	

RATIO R_HAT = 0.00194
 POP. # CUST.:341637 POP. ENERGY : 564399308
 POP. CPKW : 1093198 POP. KW/C 3.20

ESTIMATES FOR 90% C.I., 10% RELATIVE ACCURACY
 MEAN PER UNIT SAMPLE SIZE ESTIMATE = 99.48
 RATIO METHOD SAMPLE SIZE ESTIMATE = 45.32

GENERAL SERVICE (NON-DEMAND) RATE CLASS

The 2003 study contained a total of 380 sample points stratified on winter peak month energy with strata break points at 650, 1,350, and 2,250 kWh. The resulting accuracy did meet the target accuracy of 10 percent at the 90 percent confidence level during both winter and summer peaks. Since the target accuracy was met, the basic sample design will be kept for 2006 with minor changes in the breakpoints. The number of sample points will be reduced to 300 because of the change in the Cost of Service Load Research Rule, amended January 6, 2004, which states: "The sampling plan shall be designed to provide estimates of the summer and winter peak demands for the General Service Non-Demand rate class within plus or minus 15 percent at the 90 percent confidence interval." The 2006 GS rate class is prestratified into four strata with breakpoints at 300, 1,075, and 1,875 kWh of the average of January and February energy.

Shown below is the Neyman allocation of sample to strata for the 2006 study.

<u>STR</u>	WINTER		<u>INSTALLED</u> n
	<u>WSTD</u> <u>CPKW</u>	<u>MIN</u> n	
1	0.63	34	80
2	0.60	32	76
3	0.57	31	73
4	<u>0.56</u>	<u>30</u>	<u>71</u>
	2.36	127	300

Additional data and study design calculations for this rate class are provided in Table 7.

TABLE 7

RATE CLASS GS
ONE-WAY STRATIFICATION ON AVERAGE of JAN AND FEB KWH
in 2005 with 15% RELACC

01/2003 PEAK

STRATUM	WEIGHT	S.S.	]-----CPKW DATA-----]				]-----KWH DATA-----]				(F)	CORR.
			AVERAGE	WGT AVG	STD DEV	WGT STD	AVERAGE	WGT AVG	STD DEV	WGT STD		
0- 300	0.428015	69	0.49	0.21	1.47	0.63	101.87	43.60	98.42	42.13	0.63	0.121638
301-1075	0.288723	95	1.56	0.45	2.07	0.60	682.81	197.14	219.95	63.50	0.59	0.177986
1076-1875	0.169677	78	3.81	0.65	3.34	0.57	1416.50	240.35	227.76	38.65	0.56	0.158079
1876- UP	0.113585	100	7.67	0.87	4.94	0.56	2679.18	304.31	847.75	96.29	0.52	0.377002
=====												
TOTAL				2.18		2.36		785.40693635			2.30	

RATIO R_HAT = 0.00277
 POP. # CUST.: 29296 POP. ENERGY : 23656661
 POP. CPKW : 65609 POP. KW/CUST.: 2.24

ESTIMATES FOR 90% C.I., 15% RELATIVE ACCURACY
 MEAN PER UNIT SAMPLE SIZE ESTIMATE = 140.67
 RATIO METHOD SAMPLE SIZE ESTIMATE = 127.04

07/2003 PEAK

STRATUM	WEIGHT	S.S.	]-----CPKW DATA-----]				]-----KWH DATA-----]				(F)	CORR.
			AVERAGE	WGT AVG	STD DEV	WGT STD	AVERAGE	WGT AVG	STD DEV	WGT STD		
0- 300	0.428015	65	0.37	0.16	0.79	0.34	188.05	80.49	219.91	94.13	0.29	0.505685
301-1075	0.288723	97	2.43	0.70	2.44	0.70	1049.65	303.06	626.97	181.02	0.54	0.645107
1076-1875	0.169677	76	4.06	0.69	2.98	0.51	1854.26	314.63	906.04	153.73	0.45	0.501913
1876- UP	0.113585	98	6.28	0.71	4.14	0.47	2679.27	304.32	1299.70	147.63	0.33	0.704827
=====												
TOTAL				2.26		2.02		1002.4946823			1.61	

RATIO R_HAT = 0.00226
 POP. # CUST.: 29715 POP. ENERGY : 30233527
 POP. CPKW : 68253 POP. KW/CUST.: 2.30

ESTIMATES FOR 90% C.I., 15% RELATIVE ACCURACY
 MEAN PER UNIT SAMPLE SIZE ESTIMATE = 95.55
 RATIO METHOD SAMPLE SIZE ESTIMATE = 59.42

GENERAL SERVICE - DEMAND RATE CLASS

Since the 2003 sample design provided very accurate load research results, no change is being proposed for the 2006 sample design. The stratification variable will be January kW billing demand with break points at 20 kW, 50 kW and 130 kW. The total number of sample points is to be 160, which is the same sample size as the 2003 study.

The Neyman allocation of sample to strata for the new study is as follows:

<u>STR</u>	WINTER		<u>INSTALLED</u>
	<u>WSTD</u> <u>CPKW</u>	<u>MIN</u> <u>n</u>	
1	1.53	7	31
2	3.80	16	32
3	6.21	27	52
4	<u>5.40</u>	<u>23</u>	<u>45</u>
	16.94	73	160

Additional data and study design calculations for this rate class are provided in Table 8.

Table 8

RATE CLASS GSD
 STRATIFIED ON JANUARY 2005 KW (NCF)

01/2003 PEAK

STRATUM	WEIGHT	S.S.	]=====CPKW DATA=====]				]=====KWH DATA=====]				(F)	CORR.
			AVERAGE	WGT AVG	STD DEV	WGT STD	AVERAGE	WGT AVG	STD DEV	WGT STD		
0 - 20	0.359435	22	6.41	2.30	4.26	1.53	2838.59	1020.29	1600.84	575.40	1.46	0.444139
20.1- 50	0.410325	35	17.18	7.05	9.27	3.80	8926.86	3662.91	4531.78	1859.50	3.42	0.598645
50.1-130	0.173800	37	52.24	9.08	35.71	6.21	23940.54	4160.87	16011.43	2782.79	4.17	0.759743
130.1-UP	0.056440	30	158.62	8.95	95.73	5.40	78168.80	4411.85	40830.37	2304.47	4.27	0.653618
=====												
TOTAL				27.38		16.94			13255.914598		13.32	

RATIO R_HAT = 0.00207
 POP. # CUST.: 14879 POP. ENERGY : 185138542
 POP. CPKW : 382453 POP. KW/CUST.: 25.70

ESTIMATES FOR 90% C.I., 10% RELATIVE ACCURACY
 MEAN PER UNIT SAMPLE SIZE ESTIMATE = 103.60
 RATIO METHOD SAMPLE SIZE ESTIMATE = 72.70

07/2003 PEAK

STRATUM	WEIGHT	S.S.	]=====CPKW DATA=====]				]=====KWH DATA=====]				(F)	CORR.
			AVERAGE	WGT AVG	STD DEV	WGT STD	AVERAGE	WGT AVG	STD DEV	WGT STD		
0 - 20	0.359435	22	7.50	2.70	4.85	1.74	3787.23	1361.26	2806.25	1008.66	0.89	0.891581
20.1- 50	0.410325	35	23.33	9.57	14.44	5.92	11229.31	4607.67	6649.70	2728.54	3.96	0.756910
50.1-130	0.173800	38	65.88	11.45	36.48	6.34	33909.26	5893.43	21612.98	3756.34	3.16	0.902989
130.1-UP	0.056440	30	177.89	10.04	88.90	5.02	96760.53	5461.16	50956.46	2875.98	2.50	0.895428
=====												
TOTAL				33.76		19.03			17323.524857		10.50	

RATIO R_HAT = 0.00195
 POP. # CUST.: 15026 POP. ENERGY : 244935609
 POP. CPKW : 477323 POP. KW/CUST.: 31.77

ESTIMATES FOR 90% C.I., 10% RELATIVE ACCURACY
 MEAN PER UNIT SAMPLE SIZE ESTIMATE = 85.94
 RATIO METHOD SAMPLE SIZE ESTIMATE = 29.58

LARGE POWER RATE CLASS

The 2003 study design provided a very accurate estimate of demand for this class. The 2006 sample design will retain the 2003 sample design which is two strata with census metering of all LP rate customers whose billing demand during January was 800 kW or higher and a random sampling of 30 customers of the remaining customers.

LARGE POWER TOU RATE CLASS

The 2003 study design provided a very accurate estimate of demand for this class. The 2006 sample design will retain the 2003 sample design which is two strata with census metering of all LPT rate customers whose billing demand during January was 1,000 kW or higher and a random sampling of 20 customers of the remaining customers.

RTP, CISR/CSA, SBS RATES

All customers being billed on these three rate classes have a recorder installed, thus no sample design is necessary. The number of customers on these rate classes as of May 2005 are as follows:

RTP Rate	- 19 customers
CISR/CSA Rate	- 1 customer
SBS Rate	- 3 customers

Table 9
GULF POWER COMPANY
2006 Cost of Service Load Research Rule Sample Size

<u>Rate</u>	<u>Strata Allocation</u>	<u>Sample Size</u>	
RS	1) MF-GT900	20	
	2) MF-LE900	21	
	3) MOBILE	33	
	4) SF-925*1675	53	
	5) SF-GE1676	49	
	6) SF-LE925	49	
	TOTAL	225	
GS	1) 0- 300	80	
	2) 301-1075	76	
	3) 1076-1875	73	
	4) 1876- UP	71	
	TOTAL	300	
GSD	1) 0 - 20	31	
	2) 20.1- 50	32	
	3) 50.1-130	52	
	4) 130.1- UP	45	
	TOTAL	160	
LP	1) 0 LT 800	30	
	2) 800- UP	25	(census)
	TOTAL	55	
LPT	1) Less than 1000 kW	20	
	2) 1000 kW and greater	33	(census)
	TOTAL	53	
RTP	1) All customers	19	(census)
CISR/CSA	1) All customers	1	(census)
SBS	1) All customers	3	(census)
	TOTAL	816	