Exhibit No.: Issue(s):

Witness/Type of Exhibit: Sponsoring Party: Case No.: Class Cost of Service & Rate Design Meisenheimer/Direct Public Counsel ER-2007-0002

# **DIRECT TESTIMONY**

# OF

# **BARBARA A. MEISENHEIMER**

Submitted on Behalf of the Office of the Public Counsel

## AMERENUE (RATE DESIGN)

CASE NO. ER-2007-0002

December 29, 2006

## **BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI**

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In the Matter of Union Electric Company d/b/a AmerenUE for Authority to File Tariffs Increasing Rates for Electric Service Provided to Customers in the Company's Missouri Service Area.

Case No. ER-2007-0002

#### **AFFIDAVIT OF BARBARA A. MEISENHEIMER**

STATE OF MISSOURI ) ) ss COUNTY OF COLE )

Barbara A. Meisenheimer, of lawful age and being first duly sworn, deposes and states:

1. My name is Barbara A. Meisenheimer. I am Chief Utility Economist for the Office of the Public Counsel.

2. Attached hereto and made a part hereof for all purposes is my direct testimony.

3. I hereby swear and affirm that my statements contained in the attached testimony are true and correct to the best of my knowledge and belief.

Barbara A. Meisenheimer

Subscribed and sworn to me this 29th day of December 2006.



JERENE A. BUCKMAN My Commission Expires August 10, 2009 Cole County Commission #05754036

Jerene A. Buckman Notary Public

My Commission expires August 10, 2009.

#### AmerenUE Class Cost of Service and Rate Design

#### ER-2007-0002

### Direct Testimony of Barbara Meisenheimer

1 **Q.** PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.

A. Barbara A. Meisenheimer, Chief Utility Economist, Office of the Public Counsel,
P. O. 2230, Jefferson City, Missouri 65102. I am also an adjunct instructor for
William Woods University.

#### 5 Q. PLEASE SUMMARIZE YOUR EDUCATIONAL AND EMPLOYMENT BACKGROUND.

A. I hold a Bachelor of Science degree in Mathematics from the University of Missouri-Columbia (UMC) and have completed the comprehensive exams for a
Ph.D. in Economics from the same institution. My two fields of study are
Quantitative Economics and Industrial Organization. My outside field of study is
Statistics. I have taught economics courses for the University of Missouri-Columbia, William Woods University, and Lincoln University, mathematics for
the University of Missouri-Columbia and statistics for William Woods University.

#### 13

#### Q. HAVE YOU TESTIFIED PREVIOUSLY BEFORE THE COMMISSION?

14 A. Yes, I have testified on numerous issues before the Missouri Public Service
15 Commission. (PSC or Commission).

# 1 Q. WHAT IS YOUR PREVIOUS EXPERIENCE IN THE PREPARATION OF CLASS COST OF 2 SERVICE STUDIES?

A. I have prepared and supervised the preparation of cost of service studies on behalf
of Public Counsel for over eight years. These include class cost of service studies
related to natural gas, water and electric utilities, and services cost studies related
to telecommunications carriers.

7 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. The purpose of my direct testimony is to present Public Counsel's Class Cost of
Service (CCOS) study results and preliminary inter-class rate design
recommendations. I have prepared two CCOS studies. The first study uses a
traditional method of allocating production costs. The second CCOS study
illustrates the results of replacing the traditional allocator with a new production
allocator based on Time of Use (TOU), similar to the TOU Demand allocator I
filed in KCP&L Case No. ER-2006-0314.

The results of the traditional study are provided in Schedule DIR BAM 1. The
TOU cost of service study results are provided in Schedule DIR BAM 2. The
costs developed in these studies are one factor in setting rates. Other important
considerations related to setting just and reasonable rates are discussed later in
this testimony.

# 20 Q. HOW DO YOU RECOMMEND THAT THE COMMISSION ACCOMMODATE FACTORS 21 SUCH AS AFFORDABILITY, RATE IMPACT, AND RATE CONTINUITY IN 22 DETERMINING RATE DESIGN?

1 A. Generally, I recommend that the Commission adopt a rate design that balances 2 movement toward cost of service with rate impact and affordability 3 considerations. To reach this balance, I believe that in cases where the existing revenue structure departures greatly from the class cost of service, the 4 5 Commission should impose, at a maximum, class revenue shifts equal to one half 6 of the "revenue neutral shifts" indicated by Public Counsel's Class Cost of 7 Service studies. Revenue neutral shifts are shifts that hold overall company 8 revenue at the existing level but allow for the share attributed to each class to be 9 adjusted to reflect the cost responsibility of the class. In addition to moving half 10 way to the revenue neutral shifts, I recommend that if the Commission determines 11 that an overall increase in revenue requirement is necessary in this case, then no 12 customer class should receive a net decrease as the combined result of: (1) the 13 revenue neutral shift that is applied to that class, and (2) the share of the total 14 revenue increase that is applied to that class. Likewise, if the Commission 15 determines that an overall decrease in revenue requirement is necessary, then no 16 customer class should receive a net increase as the combined result of: (1) the 17 revenue neutral shift that is applied to that class, and (2) the share of the total 18 revenue decrease that is applied to that class.

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#### **Q.** DO YOU ANTICIPATE A NEED TO UPDATE YOUR COST STUDY?

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A. Yes. I understand that the Staff and Company are discussing possible adjustments to the accounting data that may affect class allocations. If the Staff's data changes, I will likely file supplemental direct testimony

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#### 1 I. CLASS COST OF SERVICE STUDY

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#### **Q.** WHAT IS THE MAIN PURPOSE OF PERFORMING A CCOS STUDY?

A. The primary purpose of a CCOS study is to determine the relative class cost
responsibility for each customer class by allocating costs among the classes based
on principles of cost causation. CCOS study results also provide guidance for
determining how rates (e.g., customer charges) should be designed to collect
revenues from customers within a class, depending on customer usage levels and
patterns of use.

# 9 Q. WHAT IS THE RELATIVE IMPORTANCE OF CCOS STUDY RESULTS IN DEVELOPING 10 RATE DESIGN?

A. CCOS study results provide the Commission with a general guide in setting the just and reasonable rate for the provision of service based on costs. In addition, other factors are also relevant considerations when setting rates including the value of a service, affordability, rate impact, rate continuity, etc. A determination as to the particular manner in which the results of a cost of service study and all the other factors are balanced in setting rates can only be determined on a caseby-case basis.

#### 18 **Q.** PLEASE OUTLINE THE BASIC ELEMENTS OF PREPARING A CCOS STUDY.

19 A. A CCOS Study is designed to functionalize, classify, and allocate costs.

Functionalizing costs involves categorizing accounts by the type of electric utility
function(s) with which each account is associated. The categories of accounts
include Production, Transmission, Distribution, Customer Accounts,
Administrative and General, etc.

1 The next step is to classify costs as customer related, demand related, commodity 2 related, or "other" costs. Customer related costs vary in relation to the number of 3 customers. Demand related costs vary with usage during different periods such as 4 peak and average load periods. Commodity related costs vary with annual energy 5 consumption. For example, the cost associated with meter plant, and meter 6 reading expense are considered to be customer-related because they vary 7 primarily based on the number of customers served and might occur whether or 8 not the customer uses any electricity.

9 The final step in the CCOS is to develop and apply allocation factors that 10 apportion a reasonable share of jurisdictional costs to each customer class. 11 Allocation factors should be developed in a manner that is consistent with the 12 functionalization and classification of costs described above. For example, 13 unweighted customer related cost allocation factors are expressed as ratios that 14 reflect the proportion of customers in a particular class to the total number of customers that contribute to the causation of the relevant cost. Likewise, demand 15 16 related allocators should reflect each class's use during specific time periods and 17 commodity related allocators should reflect each class's annual consumption. In 18 simpler terms, if the cost for a particular activity were thought of as a pie, then 19 allocators would represent the size of the slices of the "cost" pie that each class 20 would be assigned.

#### 21 Q. WHICH CUSTOMER CLASSES ARE USED IN YOUR CCOS STUDIES?

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A. For both studies of the AMERENUE system, I used a Residential Class (RG), a Small General Service Class (SGS), a Medium General Service Class (MGS), a

- Large General Service Class (LGS), a Large Power Service Class (LPS), a Special
   Contract Class (SC) and a Lighting Class (Lighting).
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#### Q. ON WHAT DATA ARE YOUR CCOS STUDIES BASED?

- A. My CCOS studies are based primarily on data provided by the Company and Staff
  including data related to investments, expenses and revenues, peak demand,
  customer counts and energy use.
- 9 Q. HOW IS INTANGIBLE PLANT ALLOCATED?
- A. Intangible Plant (FERC Account No. 301) pertains to organization cost. It
  includes all fees paid to federal or state governments for the privilege of
  incorporation along with related expenditures. Generally, it should be allocated to
  each customer class according to the benefits each receives from the existence of
  this business, or according to the extent to which each class contributes to the
  overall cost of conducting the business. In this case, I have applied a Gross Plant
  Allocator to Intangible Plant.

#### 17 Q. HOW IS PRODUCTION PLANT ALLOCATED?

A. Production Plant includes the cost of land, structures and equipment used in
connection with power generation. Both demand and energy characteristics of a
system's loads are important determinants of production plant costs. One of my
production allocators assigns Production Plant according to a composite allocator
that has (1) a demand related component and (2) an energy related component.

1		The traditional method creates a weighted 3CP and average demand allocator.
2		The second allocation method is a time of use method which assigns demand
3		related fixed plant investments and depreciation reserve to each hour. The
4		method then sums each class' share of hourly investments based on only those
5		hours when the class actually used the system.
6	Q.	DO YOU BELIEVE THIS IS CONSISTENT WITH THE METHOD DESCRIBED BY NARUC
7		IN ITS 1992 ELECTRIC COST MANUEL?
8	A.	Yes it is. The following is a describtion method from the NARUC manuel which
9		is consistent with the method I used to develop the time of use allocation.
10 11		4. Probability of Dispatch Method
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26		The probability of dispatch (POD) method is primarily a tool for analyzing cost of service by time periods. The method requires analyzing an actual or estimated hourly load curve for the utility and identifying the generating units that would normally be used to serve each hourly load. The annual revenue requirement of each generating unit is divided by the number of hours in the year that it operates, and that "per hour cost" is assigned to each hour that it runs. In allocating production plant costs to classes, the total cost for all units for each hour is allocated to the classes according to the KWH use in each hour. The total production plant cost allocated to each class is then obtained by summing the hourly cost over all hours of the year. These costs may then be recovered via an appropriate combination of demand and energy charges. It must be noted that this method has substantial input data and analysis requirements that may make it prohibitively expensive for utilities that do not develop and maintain the required data.
27	Q.	HOW DID YOU ALLOCATE TRANSMISSION PLANT?
28	A.	Transmission Plant includes the cost of land, structures and equipment used in
29		connection with transmission operations. Transmission facilities are installed to
30		provide reliable service throughout the year including periods of scheduled
31		maintenance. It can also, at times, substitute for generation and can minimize the
32		cost of generation facilities through the sales or purchases of power. Therefore,

Transmission Plant costs can be equitably allocated on the same basis as the Production Plant. Accordingly, I chose to use the same that I used for Production Plant to allocate Transmission Plant.

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#### 6 Q. HOW DID YOU ALLOCATE DISTRIBUTION PLANT?

7 A. Distribution Plant includes the cost of land, structures and equipment used in 8 connection with distribution operations. Distribution plant equipment reduces 9 high-voltage energy from the transmission system to lower voltages, delivers it to 10 the customer and monitors the amounts of energy used by the customer. Many of 11 the distribution costs associated with providing service to electric utility 12 customers are not directly associated with or reasonable assignable to a particular 13 class with precision. For example, with the exception of service drops and 14 meters, most of the facilities between the utility customer's point-of-service and 15 the distribution substation are shared facilities. Since no portion of such facilities 16 are directly related to the number of customers, the associated costs are best 17 classified as demand related, rather than customer related.

In the functionalization and allocation of Distribution Plant, my studies reflect that distribution facilities provide service at two voltage levels: primary and secondary, and that some large industrial customers may choose to take service at primary voltages because of their large electrical requirements. Different allocation factors were used for allocating costs at different levels of the distribution system. I am seeking additional information from the Company and

	Case N	lo. ER-2007-0002														
1		may revise t	he allocation weights used to appor	tion the primary and secondary												
2		plant costs fo	or FERC Accounts 364-368.													
3	Q.	HOW DID YO	HOW DID YOU ALLOCATE METER RELATED FACILITIES?													
4	A.	Meter facilit	ies costs are generally related to e	ach individual customer. New												
5		investment o	ccurs when a new customer is added	to the system. Therefore, meter												
6		costs are usu	ally classified as customer related. I	allocated meter costs based on a												
7		version of the Company's meter allocator.														
8	Q.	HOW DID YOU ALLOCATE SERVICE RELATED FACILITIES?														
9		Service facilities are classified as customer related. The Company conducted a														
10		study of serv	ice costs.													
11		The function	al categories and classifications for D	Distribution Plant are as follows:												
12		360-3	62 Distribution Substations	Demand at Primary Station												
13 14		364	Poles Towers and Fixtures	Demand at Primary and Customer and Demand at												
15 16		365	Overhead Conductors & Devices	Secondary Demand at Primary and												
17 18				Customer and Demand at Secondary												
19 20		366	Underground Conduit	Demand at Primary and Customer and Demand at												
21		0.67		Secondary												

30 31

Q.

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HOW DID YOU ALLOCATE GENERAL PLANT?

Services

Meters

Line Transformers

367

368

369

370

Underground Conductors & Devices Demand at Primary and

Customer and Demand at

Transformer Demand

Services Study Results

Meter Study Results

Secondary

1	А.	General Plant includes land, structures and equipment used in support of
2		Production, Transmission and Distribution Plant. Therefore, it was allocated
3		using a composite allocator based on previously allocated gross non-general plant.
4		
5		
6	Q.	PLEASE DISCUSS THE METHODS THAT YOU USED TO ALLOCATE EXPENSES.
7	A.	For the expenses that could not be directly assigned, consistent with the principle
8		that "expenses follow plant", the allocators that were applied to the expenses
9		accounts were the same as those applied to the Production, Transmission, and
10		Distribution Plant accounts to which the expenses are related.
11	Q.	HOW DID YOU ALLOCATE POWER PRODUCTION EXPENSES?
12	A.	Power Production Expenses were broken down into demand-related and energy-
13		related production and purchased power costs. The demand-related expenses
14		were allocated based on the demand related allocators in my studies. The energy-
15		related expenses were allocated based on class kWhs at generation.
16	Q.	HOW WERE TRANSMISSION EXPENSES ALLOCATED?
17	A.	Transmission Expenses were allocated according to the "expenses follow plant"
18		principle. The allocators applied to transmission expenses were the same as those
19		I applied to transmission plant.
20	Q.	HOW WERE DISTRIBUTION EXPENSES ALLOCATED?
21	A.	Distribution Expenses were allocated according to the "expenses follow plant"
22		principle. The allocators applied to distribution expenses were the same as those I

applied to the plant associated with those expenses. For expenses that are not associated with any particular category of distribution plant, such as supervision and engineering, I used an aggregate distribution expense allocator based on the sum of the primary portion of Accounts 364-367.

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#### 6 Q. HOW DID YOU ALLOCATE CUSTOMER ACCOUNTS EXPENSES?

7 A. I allocated some Account Expense Accounts to all customer classes based on 8 unweighted customer numbers. I used weighted meter reading allocators for 9 Meter Reading (Account 902). I used total cost of service to allocate 10 Uncollectible Accounts (Account 904) consistent with uncollectibles being a 11 normal cost of doing business which is discussed as one position recognized in 12 the NARUC Electric Cost Allocation manual. The rest I allocated based on a 13 composite customer account allocator.

#### 14 Q. HOW DID YOU ALLOCATE CUSTOMER SERVICE EXPENSES AND SALES EXPENSES?

- 15 Customer Service and Sales Expenses including Accounts 907, 908, 909 and 910 A. 16 were 911, 912, 913 and 916 were allocated based on customers, weighted 17 customers or a composite allocator.
  - Q. HOW ARE ADMINISTRATIVE AND GENERAL (A & G) EXPENSES ALLOCATED?
- 18
- 19 A. Property Insurance expense (Account 924) was allocated on the basis of non 20 general gross plant or cost of services. The remaining A & G accounts were 21 allocated on payroll.
- 22 Q. **HOW DID YOU ALLOCATE PROPERTY TAXES?**

- 1 A. I allocated property taxes on the basis of allocated total gross plant.
- 2 Q. HOW DID YOU ALLOCATE STATE AND FEDERAL INCOME TAXES?

A. These taxes were allocated on the basis of rate base since a utility company's
income taxes will be a function of the size of its rate base, and thus each class
should contribute revenues for income taxes in proportion with the amount of rate
base that is necessary to serve it.

7 Q. PLEASE DESCRIBE THE RESULTS OF PUBLIC COUNSEL'S CLASS COSS STUDY.

8 A. Schedule DIR BAM 1.1 and Schedule DIR BAM 1.1 show the results of Public 9 Counsel's Class COS Studies. Since a CCOS study is designed to determine the 10 relative cost responsibility of customer classes, the results are based on the 11 assumption that total company revenues remain constant. Line 11 of each 12 schedule shows the current revenue percentage by class. Line 36 of each schedule 13 shows the change in class revenue percentage to achieve equalized rates of return. 14 The study results show that the Residential class is from 1.7%-5.5% to a few 15 percent above cost of service. The SGS and LGS are above costs, the SPS and 16 LTS are near cost, LPS is significantly below cost. The SC, LP and Lighting 17 classes, on the other hand, are below cost of service.

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   Q.
   DID YOU PERFORM ANY ANALYSIS OF THE CUSTOMER-RELATED COSTS THAT ARE

   19
   ATTRIBUTABLE TO THE TYPICAL RESIDENTIAL CUSTOMER?
  - A. Yes, I did. I included costs that are related to services, meters, meter installations,
     and customer accounts expenses. The costs associated with services, meters, and
     meter installations include the return on rate base for the relevant plant accounts,
     distribution operation and maintenance expenses associated with services, meters,

and meter installations, plus the depreciation expense, payroll benefits, and
 property taxes associated with services, meters, and regulators. Generally, these
 costs are used to recommend customer charge changes. Since the Staff indicates
 the Company is over, I am not recommending changes to the customer charge in
 this testimony.

#### 6 **Q.** DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

7 A. Yes.

35 COS INDICATED REVENUE NEUTRAL SHIFT 36 % REVENUE NEUTRAL RATE INCREASE 37 CLASS % OF REVENUE AFTER REVENUE SHIFT	33 COS LESS OFFSETTING REVENUES 34		28 Allocation of difference between 29 current revenue and recommended revenue 30 MARCIN REVENUE REQUIRED	25 TOTAL COST OF SERVICE 26 CLASS % of COS 27	22 REQUIRED OPERATINC INCOME 23 Equalized (OPC) Rates of Return 24	20 EQUAL RATE OF RETURN 21	18 IMPLICIT RATE OF RETURN	16 TOTAL RATE BASE 17	14 OPERATING INCOME 15	11 TOTAL CURRENT REVENUE 12 CLASS % OF CURRENT REVENUE 13	11 Total Offsetting Revenues 12	9 Reveue Credits 10	7 CURRENT RATE REVENUE 8 OFFSETTING REVENUES:	5 TOTAL EXPENSES AND TAXES	1 0 & M EXPENSES 2 DEPREC. & AMORT. EXPENSE 3 TAXES 4	OPC CCOS Study Summary ***** ######
(0) 0.00% 100.00%	2,040,378,586	2,663,354,950	0	2,663,354,950 100.00%	506,433,173	9.87%	9.87%	5,129,974,972	506,433,173	2,663,354,950 100.00%	622,976,364	622,976,364	2,040,378,586	2,156,921,777	1,485,173,603 289,611,658 382,136,516	
48,650,571 5.51% 45.69%	932,223,249	1,192,260,879	o	1,192,260,879 44.77%	231,593,255	9.87%	7.80%	2,345,951,382	182,942,685	1,143,610,308 42.94%	260,037,630	260,037,630	883,572,678	960,667,624	643,404,203 139,511,890 177,751,530	RES
(11,306,592) - <b>4.73%</b> 11.17%	227,938,772	294, 166,810	o	294,166,810 11.04%	56,942,353	9.87%	11.83%	576,804,329	68,248,945	305,473,402 11.47%	66,228,038	66,228,038	239,245,364	237,224,457	158,505,474 35,229,144 43,489,839	**************************************
(41,424,149) -9.46% 19.43%	396,364,497	525,423,086	0	525,423,086 19.73%	100,595,185	9.87%	13.94%	1,018,990,870	142,019,333	566,847,235 21.28%	129,058,589	129,058,589	437,788,646	424,827,901	294,534,985 55,367,624 74,925,292	ros
(4,032,293) -2.18% 8.88%	181,215,806	240,411,699	0	240,411,699 9.03%	43,610,627	9.87%	10.78%	441,759,025	47,642,920	244,443,993 9.18%	59,195,893	59,195,893	185,248,100	196,801,072	140,956,254 23,205,483 32,639,336	SPS
17,475,485 11.00% 8.64%	176,346,970	234,605,691	0	234,605,691 8.81%	43,085,469	9.87%	5.87%	436,439,372	25,609,984	217,130,206 8.15%	58,258,721	58,258,721	158,871,485	191,520,223	137,328,766 22,472,824 31,718,633	LCS SPS LPS LTS
(9,363,022) - <b>6.90%</b> 6.19%	126,289,291	176,486,784	o	176,486,784 6.63%	30,606,285	9.87%	12.89%	310,029,995	39,969,307	185,849,806 6.98%	50,197,493	50,197,493	135,652,313	145,880,500	110,443,921 13,824,692 21,611,886	LTS

OPC Rate Design Summary

35 COS INDICATED REVENUE NEUTRAL SHIFT 36 % REVENUE NEUTRAL RATE INCREASE 37 CLASS % OF REVENUE AFTER REVENUE SHIFT	33 COS LESS OFFSETTING REVENUES 34		28 Allocation of difference between 29 current revenue and recommended revenue 30 MARGIN REVENUE REQUIRED	25 TOTAL COST OF SERVICE 26 CLASS % of COS 27		20 EQUAL RATE OF RETURN 21							7 CURRENT RATE REVENUE 8 OFFSETTING REVENUES:	5 TOTAL EXPENSES AND TAXES 6	1 0 & M EXPENSES 2 DEPREC. & AMORT. EXPENSE 3 TAXES 4	OPC CCOS Study Summary ****** ######
(0) 0.00% 100.00%	2,040,378,586	2,663,354,950	0	2,663,354,950 100.00%	506,433,173	9.87%	9.87%	5,129,974,972	506,433,173	2,663,354,950 100.00%	622,976,364	622,976,364	2,040,378,586	2,156,921,777	1,485,173,603 289,611,658 382,136,516	TOTAL
15,216,984 1.72% 44.05%	898,789,662	1,132,033,036	o	1,132,033,036 42.50%	214,180,899	9.87%	9.17%	2,169,570,856	198,963,915	1,116,816,052 41.93%	233,243,374	233,243,374	883,572,678	917,852,137	621,001,910 131,416,087 165,434,140	RES
(15,106,622) - <b>6.31%</b> 10.99%	224,138,741	287,321,369	o	287,321,369 10.79%	54,963,281	9.87%	12.59%	556,757,080	70,069,903	302,427,992 11.36%	63,182,628	63,182,628	239,245,364	232,358,088	155,959,250 34,308,983 42,089,856	SCS
(33,766,468) -7.71% 19.80%	404,022,177	539,217,764	0	539,217,764 20.25%	104,583,337	9.87%	13.06%	1,059,389,337	138,349,806	572,984,232 21.51%	135,195,586	135, 195, 586	437,788,646	434,634,426	299,666,041 57,221,899 77,746,486	LCS
3,328,771 1.80% 9.24%	188,576,870	253,672,048	0	253,672,048 9.52%	47,444,301	9.87%	9.18%	480,592,680	44,115,530	250,343,277 9.40%	65,095,178	65,095,178	185,248,100	206,227,747	145,888,561 24,987,934 35,351,252	LGS SPS LPS LTS
27,937,324 17.58% 9.16%	186,808,809	253,451,829	0	253,451,829 9.52%	48,534,039	9.87%	4.19%	491,631,315	20,596,716	225,514,505 8.47%	66,643,020	66,643,020	158,871,485	204,917,790	144,338,758 25,006,114 35,572,918	LPS
2,390,012 1.76% 6.77%	138,042,325	197,658,904	0	197,658,904 7.42%	36,727,315	9.87%	9.23%	372,033,704	34,337,303	195,268,892 7.33%	59,616,578	59,616,578	135,652,313	160,931,588	118,319,083 16,670,641 25,941,865	 LTS

**OPC Rate Design Summary**