Exhibit No.: Issues: Demand Allocator and "Unused Energy" Allocator Witness: Erin L. Maloney Sponsoring Party: MO PSC Staff Type of Exhibit: Rebuttal Testimony Case No.: ER-2006-0314 Date Testimony Prepared: September 8, 2006

# **MISSOURI PUBLIC SERVICE COMMISSION**

# **UTILITY OPERATIONS DIVISION**

## **REBUTTAL TESTIMONY**

## OF

# **ERIN L. MALONEY**

## **KANSAS CITY POWER & LIGHT COMPANY**

### CASE NO. ER-2006-0314

Jefferson City, Missouri September 2006

#### **BEFORE THE PUBLIC SERVICE COMMISSION**

### **OF THE STATE OF MISSOURI**

In the Matter of the Application of Kansas ) City Power & Light Company for ) Approval to Make Certain Changes in its ) Charges for Electric Service to Begin the ) Implementation of Its Regulatory Plan )

Case No. ER-2006-0314

#### **AFFIDAVIT OF ERIN L. MALONEY**

STATE OF MISSOURI ) ) ss COUNTY OF COLE )

Erin L. Maloney, of lawful age, on her oath states: that she has participated in the preparation of the following Rebuttal Testimony in question and answer form, consisting of 5 pages of Rebuttal Testimony to be presented in the above case, that the answers in the following Rebuttal Testimony were given by her; that she has knowledge of the matters set forth in such answers; and that such matters are true to the best of her knowledge and belief.

Erin L. Maloney

Subscribed and sworn to before me this day of September, 2006. ARIE R NOTARY SEAL Notary Public ion expires

1	TABLE OF CONTENTS
2 3 4	REBUTTAL TESTIMONY
5	OF
6 7	ERIN L. MALONEY
8 9	KANSAS CITY POWER & LIGHT COMPANY
10 11	CASE NO. ER-2006-0314
12 13	
14 15	Derivation of the Demand Allocator1
16	Derivation of the "Unused Energy" Allocator
10	Derivation of the "Chasea Energy" Antoentor united and

1		<b>REBUTTAL TESTIMONY</b>
2 3		OF
4 5		ERIN L. MALONEY
6 7		Kansas City Power & Light Company
8 9		CASE NO. ER-2006-0314
10 11		
12	Q.	Please state your name and business address.
13	А.	Erin L. Maloney, Missouri Public Service Commission, P.O. Box 360,
14	Jefferson City	y, Missouri, 65102.
15	Q.	Are you the same Commission Staff (Staff) witness Erin L. Maloney that filed
16	direct testime	ony in this case?
17	А.	Yes I am. I filed direct testimony on August 8, 2006, on the issue of losses and
18	jurisdictional	allocation factors.
19	Q.	Why are you filing rebuttal testimony in this case?
20	А.	The purpose of this rebuttal testimony is to respond to the direct testimony of
21	Kansas City	Power & Light's (KCP&L or Company) witness Don A. Frerking on the
22	following two	o issues:
23		(1) Derivation of the Demand Allocator
24		(2) Derivation of KCP&L's "Unused Energy" Allocator
25		<b>Derivation of the Demand Allocator</b>
26	Q.	How do Staff and KCP&L differ in the derivation of the demand allocator?
27	А.	Staff uses a 4 Coincident Peak (4 CP) methodology to calculate the demand
28	allocator and	the Company uses a 12 Coincident Peak (12 CP) methodology.
29	Q.	What is the difference between a 4 CP utility and a 12 CP utility?

A. A 4 CP utility is a utility that has high demand during the four summer months
 and relatively low demands during the off-peak months. A 12 CP utility will have a relatively
 flat load curve with not a lot of statistical variation in peak demand on a month to month
 basis.

Q. Does Mr. Frerking explain the reason for selecting a 12 CP methodology in the
Company's derivation of the demand allocator?

A. Mr. Frerking gives no explanation. He states on page 6, lines 4-6 of his direct
testimony that "The Demand allocator is a 12-month average for the coincident peak demands
for the Missouri and Kansas jurisdictional customers and the firm wholesale FERC
jurisdictional customers."

11

Q. Does the Staff have a foundation for using the 4 CP methodology in this case?

A. Yes, as stated in my direct testimony, the 4 CP methodology is appropriate for
a utility, such as KCP&L, where the monthly peak demands during summer months are
significantly higher then the non-summer monthly peak demands.

Q. Did you present support for the usage of the 4 CP methodology in your directtestimony?

A. Yes, I performed various monthly peak mathmatical tests on the test year data
to make this determination. The Federal Energy Regulatory Commission (FERC) relied upon
and employed these tests in a number of electric utility cases which are cited and attached as
Schedule 1.

21

22

Q. Can you please briefly review the FERC jurisdictional demand allocation methodology tests that you used in your analysis?

Q.

A. I examined the following three tests and comparisons developed and used by the FERC for this determination: 1) the on- and off-peak relative demand test, 2) the average to annual peak demand test, and 3) the low to annual peak demand test. In addition FERC has used another test - the number of occurrences of off-peak months having higher demand than peak months and I have included the results of that test in my rebuttal testimony.

6

What were the results of your analysis?

A. As indicated in my direct testimony, each FERC test and comparison fell
within or below the range of values used by the FERC indicating that the adoption a 4 CP
methodology should be used for KCP&L.

Q. Did you perform any additional analyses using these FERC tests for thepurpose of this rebuttal testimony?

A. Yes. To supplement my earlier analysis of the test year data, I performed the four FERC tests using the Company's monthly peaks reported on FERC Form 1, page 401b 'Monthly Peaks and Output' for each of the years 1999-2004. The results of these tests and the system peaks are contained and attached as Schedule 2.

Q. Which jurisdictional demand allocation methodology would be the most
appropriate for KCP&L, based on these analyses and upon the actual historic pattern of
monthly system peak demands?

A. For each of the seven years of data, the test year (2005) and the years 19992004, without exception, the four tests and comparisons yielded a result that fell in or below
the range established and applied by the FERC when adopting a 4 CP methodology.

22

Q.

Has this issue been raised with the Commission in the past?

3

A. Yes, in Case No. ER-83-49, the last KCP&L rate increase case, the Staff, the
 Department of Energy (DOE) and the Company agreed to use a four coincidental peak
 method to develop the Missouri jurisdictional demand allocation factor. Please see Cary
 Featherstone's rebuttal testimony for a recounting of the history of this issue.

5 6

7

#### **Derivation of the "Unused Energy" Allocator**

Q. What is your understanding of the derivation of the "Unused Energy" allocator?

8 A. The "Unused Energy" allocator is used in a method developed by KCP&L to 9 try to measure the energy that is available for off-system sales. KCP&L first takes the 12 CP 10 demand average for each jurisdiction and multiplies it by 8760 to get a projected amount of 11 total "Available Energy". Then, KCP&L subtracts the actual energy that was used by the individual jurisdictions and calls that the "Unused Energy" per jurisdiction. The "Unused 12 Energy" allocator is derived by dividing each jurisdictions' "Unused Energy" by the total 13 14 amount of "Unused Energy". Please see Lena Mantle's rebuttal testimony regarding the 15 shortcomings of this method and how this allocator favors jurisdictions with lower load 16 factors.

Q. Does the "Available Energy" or "Unused Energy" calculated using KCP&L's
method yield a value that relates to actual energy that was available for disposition or the
actual energy that was sold off-system in the year ending December 31, 2005?

A. No. For the test year (2005), the "Available Energy" calculated using KCP&L's theory was 23,233,216 MWh and the actual total energy available for disposition in the test year was 20,398,545 MWh. The total "Unused Energy" calculated using their theory was 7,545,659 MWh while the actual energy that was sold off-system was only 4,468,707

MWh. Such wide divergence from actual experience demonstrates the complete inadequacy
 of the method for the purpose of setting rates.

3 Q. Is there any other problem with the Company's derivation of the "Unused4 Energy" allocator?

A. Yes, the Company's theory to derive this allocator is based on a 12 CP demand
average. In any case that a demand allocator is being derived I would recommend the use of a
4 CP average not a 12 CP average.

Q. By making these observations about the Company's use of a 12 CP average in
the derivation of the "Unused Energy" allocator, are you endorsing the use of this "Unused
Energy" allocator in this case?

A. No, I do not recommend the use of the "Unused Energy" allocator. For further
discussion on the "Unused Energy" allocator, see the rebuttal testimonies of Staff witnesses
Mantle and Featherstone.

14

15

Q. Does this conclude your prepared Rebuttal Testimony?

A. Yes, it does.

#### FERC System Demand Test # 1 - Difference in Average of Peak Months to Non-Peak Months as Percentage of Annual Peak

<b>Company</b> Louisiana Power &	FERC Reference	Year Comment
Light Co.	Opinion No. 813, 59 FPC 968	1977 31% difference 4 CP
Louisiana Power & Light Co.	Opinion No. 110, 14 FERC 61,075	1981 26% difference 4 CP
Lockhart Power Co.	Opinion No. 29, 4 FERC 61,337	1978 18% difference 12 CP
Illinois Power Co.	11 FERC at 65,248	19% difference 12 CP
Commonwealth Edison Co. Southwestern Public	15 FERC at 65,196	16.4%-24.9% differences 4 CP average difference of 22.9%, high of
•	18 FERC at 65,034 Id Test # 2 - Average of the Percentage of the Annual Peak	28.3% 3 CP

Company	FERC Reference	Year Comment
Illinois Power Co.	11 FERC at 65,248-49	81% 12 CP
El Paso Electric Co.	Opinion No. 109, 14 FERC 61,082	1981 84% 12 CP
Lockhart Power Co. Southern California	Opinion No. 29, 4 FERC 61,337	1978 84% 12 CP
Edison Co.	Opinion No. 821, 59 FPC 2167	1977 87.8% 12 CP
Louisiana Power & Light Co.	Opinion No. 110, 14 FERC 61,075	1981 81.2% 4 CP
Commonwealth Edison Co. Southwestern Public	15 FERC at 65,198	79.4%-79.5% 4 CP
Service Co. Delmarisa Power &	18 FERC at 65,035	80.1% 3 CP
Light Co.	17 FERC at 65,202	83.3% 12 CP
•	nd Test # 3 - Lowest Monthly Peak	
as a Percentage of th		
<b>Company</b> Louisiana Power &	FERC Reference	Year Comment
Light Co.	Opinion No. 813, 59 FPC 968	1977 56% 4 CP
Idaho Power Co. Southwestern Electric	Opinion No. 13, 3 FERC 61,108	1978 58% 3 CP
Power Co.	Opinion No. 28, 4 FERC 61,330	1978 55.8% 4 CP

Commonwealth Edison Co.	15 FERC at 65,198	64.6%-67.8% 4 CP
Louisiana Power & Light Co.	Opinion 110, 14 FERC 61,075	1981 61.9% 4 CP
El Paso Electric Co. Carolina Power & Ligh	Opinion No. 109, 14 FERC 61,082 t	1981 71% 12 CP
Co. New England Power	Opinion No. 19, 4 FERC 61,107	1978 72% 12 CP
Co. Southwestern Public	Opinion No. 803, 58 FPC 2322	1977 80% 12 CP
Service Co. Delmarisa Power &	18 FERC at 65,034	on average almost 67% 3 CP
Light Co.	17 FERC at 65,201	71.4% 12 CP

	ERC analyses:						
-	ks and Output 99			Monthly Pea	k		
		Monthly Non-Requi	romonte				
	Total Monthly	Sales for Resale &	ements		Day of		
Month	Energy	Associated Losses		MW	Month	н	our
January	1,563,152		356,251	2,171		4	600 600
February	1,176,684		177,812			22	600
March	1,246,938		161,520			8	2300
April	1,105,152		99,204			8	1300
May	1,258,442		188,468			28	1500
June	1,415,667		107,956			7	1,600
July	1,791,349		99,463			29	1,500
August	1,612,177		98,252			12	1,500
September	1,349,442		178,662			2	1,600
October	1,300,729		237,845			12	1,400
November	1,243,383		207,853			30	1,800
December	1,383,488		212,097			21	1,800
Demand in P		0.92			4 CP Ra 26-31%	nge:	
FERC Syster	n Demand Test #2·	Average of Monthly	Peak				
Demands as	Percentage of Ann						
	2,300	0.70	7397724	70.74%	78-81%		
-	n Demand Test #3 of Annual Peak	- Lowest Monthly Pe	ak as				
-	1,778	0.54	6908643	54.69%	55-60%		
FERC System Demand Test #4 - What extent do peak Demand in non-peak months never exceed demand in peak months.							
	Peak Demands:		2,766	Non_Peak De	e 2,	171	
			3,251		1,	954	
			3,087			859	
			2,961			778	
					1,	910	
						963	
						812	
					2	005	

2,085

20	00			Monthly Pea	k	
		Monthly Non-Requir	ements			
	Total Monthly	Sales for Resale &			Day of	
Month	Energy	Associated Losses		MW	Month	Hour
January	1363574		175338	2026	27	180
ebruary	1217835		145679	1937	1	190
March	1246474		163401	1776	2	180
April	1141485		129583	1885	19	160
May	1358703		139379	2936	31	150
June	1463360		134527	2958	1	150
July	1741886		137847	3230	10	160
August	1868379		111742	3374	28	150
September	1477478		128947	3269	11	150
October	1250220		120744	2352	3	150
November	1260585		115162	2045	20	
December	1422641		86139			
FERC Syster	2,167 n Demand Test #2-	0.64 • Average of Monthly	2375519 <b>Peak</b>			
-	Percentage of Anr					
	2,514	0.74	5159059	74.52%	78-81%	
-	n Demand Test #3 of Annual Peak	- Lowest Monthly Pe	ak as			
	1,776	0.52	6378186	52.64%	55-60%	
-		<ul> <li>What extent do pea</li> <li>ever exceed demand</li> </ul>		months.		
	Peak Demands:		2958	Non_Peak De	e 2026	;
			3230		1937	,
			3374		1776	;
			3269		1885	;
					2936	5
					2352	
					2045	
					0000	

2382

Monthly Peak	s and Output						
200	-			Monthly Pea	k		
		Monthly Non-Requi	rements				
	Total Monthly	Sales for Resale &			Day of		
Month	Energy	Associated Losses		MW	Month	Hour	
January	1,422,218		158,181	2,233		2	1,800
February	1,221,389		99,089	2,147	•	2	1,900
March	1,247,236		137,941	1,981		1	1,800
April	1,294,726		261,422	1,988		27	1,500
Мау	1,352,380		200,288	2,579		16	1,900
June	1,583,570		269,618	2,858		11	1,600
July	1,939,234		234,086	3,304		30	1,600
August	1,865,699		259,262	3,352		9	1,500
September	1,587,205		431,511	2,722		4	1,600
October	1,572,350		504,867	1,920	)		1,600
November	1,486,552		455,401	1,988			1,800
December	1,569,545		419,798	1,934		26	1,800
	18,142,104						
	eak months and A ercentage of Annua 3,059 2,096	0.91	2589499 25372912	28.72%	4 CP Rang 26-31%	ge:	
-	n Demand Test #2- Percentage of Anr 2,417		• <b>Peak</b> 21111774	72.11%	78-81%		
-	n Demand Test #3 f Annual Peak	- Lowest Monthly Pe	ak as				
	1,920	0.57	2792363	57.28%	55-60%		
FERC System Demand Test #4 - What extent do peak Demand in non-peak months never exceed demand in peak months							
	Peak Demands:		2,858	Non_Peak De	e 2,2:	33	
			3,304	_	2,14		
			3,352		1,98		
			2,722		1,98		
			-		2,5		
					1,92		
					1,98		
					4,00		

9/8/2006

1,934

200	ks and Output 02			Monthly Peal	k	
		Monthly Non-Require	ments			
	Total Monthly	Sales for Resale &			Day of	
Month	Energy	Associated Losses		MW	Month	Hour
January	1,508,893	3	335,406	2,105	2	1800
February	1,249,993	2	223,083	2,095	26	1900
March	1,371,497	2	251,567	2,036	4	
April	1,284,996	2	243,342	2,131		
May	1,480,099	3	376,185	2,779	31	
June	1,769,785	3	320,952	3,083	26	
July	1,958,303	2	264,713	3,335	26	
August	1,925,955	3	313,545	3,333		
September	1,794,163	2	46,543	3,139	6	
October	1,788,701	6	674,415	2,665	1	
November	1,798,934		714,958	1,957	25	
December	1,858,111	6	673,956	2,055	3	1800
	19,789,430					
	ercentage of Annua		_	20.02%	4 CP Range	:
Months as pe	ercentage of Annua 3,223 2,228	al Peak 0.966 0.668	1_Peak 266867 028486	29.82%	4 CP Range 26-31%	:
Months as pe FERC Systen	ercentage of Annua 3,223 2,228 n Demand Test #2-	al Peak 0.966 0.668 Average of Monthly F	1_Peak 266867 028486	29.82%	-	:
Months as pe FERC Systen	ercentage of Annua 3,223 2,228	al Peak 0.966 0.668 Average of Monthly F ual Peak	1_Peak 266867 028486		-	:
Months as pe FERC Systen Demands as FERC Systen	ercentage of Annua 3,223 2,228 n Demand Test #2- Percentage of Ann 2,559 n Demand Test #3	al Peak 0.966 0.668 Average of Monthly F ual Peak	n_Peak 266867 028486 Peak 441279		26-31%	:
Months as pe FERC Systen Demands as FERC Systen	ercentage of Annua 3,223 2,228 n Demand Test #2- Percentage of Ann 2,559 n Demand Test #3 of Annual Peak	al Peak 0.966 0.668 Average of Monthly F ual Peak 0.767 - Lowest Monthly Peal	n_Peak 266867 028486 Peak 441279 k as	76.74%	26-31% 78-81%	:
Months as pe FERC System Demands as FERC System Percentage o	ercentage of Annua 3,223 2,228 n Demand Test #2- Percentage of Ann 2,559 n Demand Test #3 of Annual Peak 1,957	al Peak 0.966 0.668 Average of Monthly F Jual Peak 0.767 - Lowest Monthly Peal 0.586	n_Peak 266867 028486 Peak 441279 k as 806597	76.74%	26-31%	:
Months as pe FERC Systen Demands as FERC Systen Percentage o FERC Systen	ercentage of Annua 3,223 2,228 n Demand Test #2- Percentage of Ann 2,559 n Demand Test #3 of Annual Peak 1,957 n Demand Test #4	al Peak 0.966 0.668 Average of Monthly F ual Peak 0.767 - Lowest Monthly Peal	n_Peak 266867 028486 Peak 441279 k as 806597	76.74% 58.68%	26-31% 78-81%	:
Months as pe FERC Systen Demands as FERC Systen Percentage o FERC Systen	ercentage of Annua 3,223 2,228 n Demand Test #2- Percentage of Ann 2,559 n Demand Test #3 of Annual Peak 1,957 n Demand Test #4	al Peak 0.966 0.668 Average of Monthly F ual Peak 0.767 - Lowest Monthly Peal 0.586 - What extent do peak	n_Peak 266867 028486 Peak 441279 k as 806597 n peak i 3,083	76.74% 58.68%	<b>26-31%</b> <b>78-81%</b> <b>55-60%</b> 2,105	
Months as pe FERC Systen Demands as FERC Systen Percentage o FERC Systen	ercentage of Annua 3,223 2,228 n Demand Test #2- Percentage of Ann 2,559 n Demand Test #3 of Annual Peak 1,957 n Demand Test #4 on-peak months ne	al Peak 0.966 0.668 Average of Monthly F ual Peak 0.767 - Lowest Monthly Peal 0.586 - What extent do peak	n_Peak 266867 028486 Peak 441279 k as 806597 n peak 3,083 3,335	76.74% 58.68% months	<b>26-31% 78-81% 55-60% 2</b> ,105 2,095	
Months as pe FERC Systen Demands as FERC Systen Percentage o FERC Systen	ercentage of Annua 3,223 2,228 n Demand Test #2- Percentage of Ann 2,559 n Demand Test #3 of Annual Peak 1,957 n Demand Test #4 on-peak months ne	al Peak 0.966 0.668 Average of Monthly F ual Peak 0.767 - Lowest Monthly Peal 0.586 - What extent do peak	n_Peak 266867 028486 Peak 441279 k as 806597 n peak n 3,083 3,335 3,333	76.74% 58.68% months	<b>26-31%</b> <b>78-81%</b> <b>55-60%</b> 2,095 2,036	
Months as pe FERC Systen Demands as FERC Systen Percentage o FERC Systen	ercentage of Annua 3,223 2,228 n Demand Test #2- Percentage of Ann 2,559 n Demand Test #3 of Annual Peak 1,957 n Demand Test #4 on-peak months ne	al Peak 0.966 0.668 Average of Monthly F ual Peak 0.767 - Lowest Monthly Peal 0.586 - What extent do peak	n_Peak 266867 028486 Peak 441279 k as 806597 n peak 3,083 3,335	76.74% 58.68% months	<b>26-31% 78-81% 55-60% 2</b> ,105 <b>2</b> ,095 <b>2</b> ,036 <b>2</b> ,131	
Months as pe FERC Systen Demands as FERC Systen Percentage o FERC Systen	ercentage of Annua 3,223 2,228 n Demand Test #2- Percentage of Ann 2,559 n Demand Test #3 of Annual Peak 1,957 n Demand Test #4 on-peak months ne	al Peak 0.966 0.668 Average of Monthly F ual Peak 0.767 - Lowest Monthly Peal 0.586 - What extent do peak	n_Peak 266867 028486 Peak 441279 k as 806597 n peak n 3,083 3,335 3,333	76.74% 58.68% months	<b>26-31% 78-81% 55-60% 2</b> ,105 <b>2</b> ,036 <b>2</b> ,131 <b>2</b> ,779	
Months as pe FERC Systen Demands as FERC Systen Percentage o FERC Systen	ercentage of Annua 3,223 2,228 n Demand Test #2- Percentage of Ann 2,559 n Demand Test #3 of Annual Peak 1,957 n Demand Test #4 on-peak months ne	al Peak 0.966 0.668 Average of Monthly F ual Peak 0.767 - Lowest Monthly Peal 0.586 - What extent do peak	n_Peak 266867 028486 Peak 441279 k as 806597 n peak n 3,083 3,335 3,333	76.74% 58.68% months	<b>26-31% 78-81% 55-60% 2</b> ,105 2,095 2,036 2,131 2,779 2,665	
Months as pe FERC Systen Demands as FERC Systen Percentage o FERC Systen	ercentage of Annua 3,223 2,228 n Demand Test #2- Percentage of Ann 2,559 n Demand Test #3 of Annual Peak 1,957 n Demand Test #4 on-peak months ne	al Peak 0.966 0.668 Average of Monthly F ual Peak 0.767 - Lowest Monthly Peal 0.586 - What extent do peak	n_Peak 266867 028486 Peak 441279 k as 806597 n peak n 3,083 3,335 3,333	76.74% 58.68% months	<b>26-31% 78-81% 55-60% 2</b> ,105 <b>2</b> ,036 <b>2</b> ,131 <b>2</b> ,779	

Monthly Peaks	s and Output						
200	-			Monthly Pea	k		
		Monthly Non-Requi	rements				
	Total Monthly	Sales for Resale &			Day of		
Month	Energy	Associated Losses		MW	Month	Hour	
January	1,844,970		585,013			22 1,800	
February	1,577,368		458,006			24 1,900	
March	1,538,134		412,935			5 1,900	
April	1,356,318		307,688			30 1,600	
Мау	1,624,735		512,862			30 1,600	
June	1,791,114		491,717			24 1,500	
July	2,135,605		376,884			1,600	
August	2,131,679		403,757			21 1,500	
September	1,749,402		582,026			1,500	
October	1,627,619		533,886			20 1,500	
November	1,475,096		373,006			24 1,800	
December	1,843,091		606,748	2,186	; 1	1,800	
Months as per FERC System	centage of Annua 3,191 2,162	0.88 0.59 Average of Monthly	- 33795014 98788089	28.50%	4 CP Rang 26-31%	ge:	
	2,505	0.69	93790397	69.38%	78-81%		
FERC System Demand Test #3 - Lowest Monthly Peak as Percentage of Annual Peak 1,994 0.552354571 55.24% 55-60% FERC System Demand Test #4 - What extent do peak							
Demana in NO	n-peak months h	ever exceed demand	in peak	monuis			
	Peak Demands:		3,109 3,426 3,610 2,617		e 2,26 2,16 2,09 2,01 2,55 2,01 1,99 2,18	85 95 11 56 18 94	

Monthly Peak	s and Output					
200	)4			Monthly Pea	k	
		Monthly Non Borni	romonto			
	Total Monthly	Monthly Non-Requi Sales for Resale &	rements		Day of	
Month	Energy	Associated Losses		MW	Month	Hour
January	1,916,295		615,155			5 1800
February	1,656,914		479,027			2 1800
March	1,709,685		587,935			4 1800
April	1,682,482		632,680			6 1500
May	1,759,348		500,885			1700
June	1,779,498		462,669			4 1600
July	1,975,562		452,171			3 1600
August	1,893,856		461,970			3 1600
September	1,810,414		506,981			4 1600
October	1,726,793		623,132			9 1400
November	1,672,085		555,063			0 1800
December	1,872,856		590,503			2 1800
-		Difference in Averag				
		verage Demand in N	on_Peak			
Months as pe	rcentage of Annua			/	4 CP Rang	je:
	3,161		34027778		26-31%	
	2,192	0.64	17864953			
FERC System	Demand Test #2-	Average of Monthly	Peak			
-	Percentage of Anr					
	2,515		3252561	74.33%	78-81%	
FERC System	Demand Test #3	- Lowest Monthly Pe	ak as			
Percentage of	f Annual Peak					
	1,858	0.54	9054374	54.91%	55-60%	
FERC System	Demand Test #4	- What extent do pea	ak			
Demand in no	on-peak months n	ever exceed demand	l in peak	months		
	De els Demondes		2 000	New Deals D	- 0.00	-
	Peak Demands:			Non_Peak De		
			3,384		2,23	
			3,376		1,85	
			2,874		1,89	
					2,73	
					1,97	
					2,12	
					2,37	0

<b>Monthly Peak</b>	s and Output							
200	5		Monthly Pea	k				
		<b>. .</b>						
		Monthly Non-Requirements						
	Total Monthly	Sales for Resale &		Day of				
Month	Energy	Associated Losses	MW	Month	Hour			
January	1,823,646				1900			
February	1,489,763				1800			
March	1,476,585				1900			
April	1,467,612				1600			
May	1,504,975				1700			
June	1,841,312		,		1500			
July	2,055,089				1600			
August	1,971,721				1600			
September	1,646,712				1700			
October	1,771,963				1600			
November	1,649,130			28	1800			
December	1,700,067	326,961	2,563	7	1800			
	20,398,575	4,468,707						
Demand in Pe Months as pe FERC System	eak Months and A rcentage of Annua 3,321 2,336	0.94554385 0.665041287 Average of Monthly Peak	28.05%	4 CP Range 26-31%	:			
	2,664	0.758542141	75.85%	78-81%				
Percentage of FERC System	FERC System Demand Test #3 - Lowest Monthly Peak as Percentage of Annual Peak 2,003 0.570330296 57.03% 55-60% FERC System Demand Test #4 - What extent do peak							
Demand in no	on-peak months n	ever exceed demand in peak	months					
	Peak Demands:	3,338 3,512 3,426 3,007	i	2,313 2,186 2,003 2,042 2,615 2,754 2,209 2,563				