

**LICKING VALLEY RECC
WEST LIBERTY, KY**

Case No. 2016-00174

COST OF SERVICE STUDY

Test Year -

Twelve Months Ending October 2015

Prepared by: July 2016

J. Adkins

**LICKING VALLEY RECC
CASE NO. 2016-00174**

**Cost of Service Study
Outline**

Schedule

- A Test Year - Actual & Adjusted
- B Test Year Adjustments
- C Functionalization of Expenses
- D Funtionalization Footnotes
- E Rate Base Functionalized
- F Classification of Expenses
- G Determination of Demand & Consumer Related Plant Investments
- H Allocation of Costs
- I Demand & Energy Allocators
- J Consumer Allcators
- K Unbundled Statement of Operations
- L Increase Amounts by Rate Class & Rate Design
- M Rate Base for Each Rate Class

LICKING VALLEY RECC
CASE NO. 2016-00174
ACTUAL TEST YEAR ADJUSTED TEST YEAR

Acct	Description	Actual	Test Year Adjustments										Pro Forma			
			Adjustment 1, 2 & 7	Adjustments 3, 4 & 5	Adjustment 8, 10 & 12	Adjustment 14	Adjustment 15	Adjustment 17	Adjustment 17	Adjustment 17	Adjustment 17	Adjustment 17				
930.3	Misc. General Exp-Other	\$96,976	897	319	29,507											\$127,700
930.4	Annual Meetings	100,658			(37,752)											62,906
930.6	Cash Over or Under	390														390
935	General Plant Maintenance	468,925	11,916													480,841
	Total Admin & General	1,553,619	27,930	319	(10,240)											1,571,628
403	Deprec. Distribution Plant	2,059,864		37,915												2,097,779
403	Deprec. General Plant	129,782														129,782
	Total Depreciation	2,189,646	-	37,915	-											2,227,561
408.1	City Payroll Tax	5,214														5,214
408.6	PSC Assessment	36,000														36,000
426.11	Donations	25,737			(25,737)											(0)
	Total Miscellaneous	66,951	-	-	(25,737)											41,214
	Total Interest on LTD	430,628		(3,672)	-											426,956
	Total Short Term Interest	6,939														6,939
	Total Costs	29,044,822	88,668	66,376	(35,977)	-				(1,597,755)						27,566,134

**LICKING VALLEY RECC
CASE NO. 2016-00174**

TEST YEAR ADJUSTMENTS

		Wages &	Payroll		
		Salaries	Taxes	401 K	Total
Adjustments 1, 2 and 7		<u>1</u>	<u>2</u>	<u>7</u>	
	Distribution - operations	19,384	2,141	1,864	23,388
	Distribution - maintenance	20,371	2,250	1,958	24,579
	Consumer accounts	9,589	1,059	922	11,570
	Customer service	995	110	96	1,200
	Sales	0	0	0	0
	Administrative and general	23,148	2,557	2,225	27,930
	Total operating expenses	73,487	8,116	7,065	88,668
Allocation of Adjustments to Accounts			Wage & Sal.	Percent of	Allocation
			Expenses	Total	Adjustments
580.00	Supervision, operations		49,329	2.6%	2,315
583.00	Overhead line		209,506	11.1%	9,831
586.00	Meter		164,770	8.7%	7,731
587.00	Installations		33,407	1.8%	1,568
588.00	Miscellaneous distribution		41,442	2.2%	1,945
590.00	Supervision, maintenance		49,409	2.6%	2,318
593.00	Maintenance		348,100	18.4%	16,334
597.00	Meters		126,318	6.7%	5,927
598.00	Miscellaneous maintenance		-	0.0%	-
901.00	Supervision		15,141	0.8%	710
902.00	Meter reading		29,298	1.6%	1,375
903.00	Consumer records		202,143	10.7%	9,485
907.00	Supervision Consumer Records		25,577	1.4%	1,200
908.00	Consumer Assistance		-	0.0%	-
913.00	Advertising		-	0.0%	-

LICKING VALLEY RECC
CASE NO. 2016-00174

TEST YEAR ADJUSTMENTS

		Wages & Salaries	Payroll Taxes	401 K	Total
910.00	Misc customer information		-	0.0%	-
920.00	Administrative		322,154	17.0%	15,116
926.00	Employee benefits		197,324	10.4%	9,259
930.00	Miscellaneous		19,126	1.0%	897
935.00	Maintenance general plant		56,622	3.0%	2,657
			1,889,666	100%	88,668
		Depreciation	Property Taxes	Interest Expense	Total
		<u>3</u>	<u>4</u>	<u>5</u>	
Operating Expenses:					
Cost of power:					
	Base rates				
	Fuel and surcharge				
	Distribution - operations	490	30,037		30,527
	Distribution - maintenance	876			876
	Consumer accounts	225			225
	Customer service	186			186
	Sales	-			-
	Administrative and general	319			319
	Depreciation	37,915			37,915
	Taxes - other				-
	Interest on long-term debt			103,067	103,067
	Interest expense - other				-
	Other deductions				-
Total		40,011	30,037	103,067	173,115

LICKING VALLEY RECC
Case No. 2016-00174

Functionalization of Costs

Acct No.	Description	Allocation Basis	Pro Forma \$\$\$\$	Power Supply	Lines	Trans former
	Demand Charges	Direct Assign	3,908,605	3,908,605		
555	Energy Charges	Direct Assign	13,343,356	13,343,356		
	Load Center Charges	Direct Assign	399,003	399,003		
	Total Purchased Power		17,650,964	17,650,964		
580	Super & Eng	Prop. Exp(b)	109,403		57,620	-
583	O/H Line	Plant Bal (a)	957,632		840,428	
584	U/G line	Plant Bal (a)	8,266		7,254	
586	Meter	Direct Assign	428,445			
587	Constr Install Eq	Direct Assign	215,144			
588	Misc Dist Eq	Prop. Exp(b)	163,592		86,160	-
	Total Operations		1,882,482	-	991,462	-
590	Supervision	Prop. Exp©	109,569		85,905	1,252
593.	O/H Lines	Plant Bal (a)	807,958	-	709,072	-
593.1	R-O-W	Plant Bal (a)	130,963		114,934	
593.61	R-O-W Contract	Plant Bal (a)	1,495,505		1,312,470	
593.9	Storm damage	Plant Bal (a)	8,924		7,832	
595	Transformers	Direct Assign	31,260			31,260
597	Meters	Direct Assign	260,378			

**LICKING VALLEY RECC
Case No. 2016-00174**

Functionalization of Costs

Acct No.	Description	Allocation				Cons&Acct	
		Basis	Services	Meters	Services	Lighting	
555	Demand Charges	Direct Assign					
	Energy Charges	Direct Assign					
	Load Center Charges	Direct Assign					
	Total Purchased Power						
580	Super & Eng	Prop. Exp(b)	8,036	29,123		14,624	
583	O/H Line	Plant Bal (a)	117,205				
584	U/G line	Plant Bal (a)	1,012				
586	Meter	Direct Assign		428,445		215,144	
587	Constr Install Eq	Direct Assign				21,868	
588	Misc Dist Eq	Prop. Exp(b)	12,016	43,548		251,636	
	Total Operations		138,268	501,116	-	-	
590	Supervision	Prop. Exp©	11,980	10,431			
593.	O/H Lines	Plant Bal (a)	98,886				
593.1	R-O-W	Plant Bal (a)	16,029				
593.61	R-O-W Contract	Plant Bal (a)	183,035				
593.9	Storm damage	Plant Bal (a)	1,092				
595	Transformers	Direct Assign					
597	Meters	Direct Assign		260,378			

LICKING VALLEY RECC
Case No. 2016-00174

Functionalization of Costs

	Allocation	Pro Forma	Power	Lines	Trans
	Basis	\$\$\$	Supply		former
	Total Distribut Maintenance	2,844,557	-	2,230,213	32,512
		-			-
901	Supervision	30,059			
902	Meter Reading Expense	68,905			
903	Cons Recds & Collections	656,767			
904	Uncollectible Accounts	145,000			
	Total Consumer Accounts	900,730	-	-	-
		-			
907	Supervision, Customer service	1,200			
908	Customer Assist. Expense	49,290			
909	Customer Information Exp	(75,163)			
913	Advertising	37,776			
	Total Customer Service	13,103		-	-
	Total of Above	23,291,837	17,650,964	3,221,676	32,512
		-			
920	Administrative Salaries	639,480		365,226	3,686
0 921	Office Supplies	126,560		72,282	729
923	Outside Services	34,815		19,884	201
928	Regulatory Comm Expenses	-			
925	Injuries & Damages	-			
929	Duplicate Charges	(15,080)		(8,613)	(87)
930.1	Director Fees	50,119		28,625	289
930.2	Dues	63,897		36,493	368

**LICKING VALLEY RECC
Case No. 2016-00174**

Functionalization of Costs

	Allocation	Services	Meters	Cons&Acct	Outdoor
	Basis			Services	Lighting
Total Distribut Maintenance		311,023	270,809	-	-
901 Supervision	Direct Assign			30,059	
902 Meter Reading Expense	Direct Assign			68,905	
903 Cons Recds & Collections	Direct Assign			656,767	
904 Uncollectible Accounts	Direct Assign			145,000	
Total Consumer Accounts		-	-	900,730	-
907 Supervision, Customer service				1,200	
908 Customer Assist. Expense	Direct Assign			49,290	
909 Customer Information Exp	Direct Assign			(75,163)	
913 Advertising	Direct Assign			37,776	
Total Customer Service		-		13,103	-
Total of Above		449,291	771,925	913,833	251,636
920 Administrative Salaries	Prop All Expense	50,934	87,510	103,597	28,527
921 Office Supplies	Prop All Expense	10,080	17,319	20,503	5,646
923 Outside Services	Prop All Expense	2,773	4,764	5,640	1,553
928 Regulatory Comm Expenses	Prop All Expense				
925 Injuries & Damages	Prop All Expense				
929 Duplicate Charges	Prop All Expense	(1,201)	(2,064)	(2,443)	(673)
930.1 Director Fees	Prop All Expense	3,992	6,859	8,119	2,236
930.2 Dues	Prop All Expense	5,089	8,744	10,351	2,850

**LICKING VALLEY RECC
Case No. 2016-00174**

Functionalization of Costs

		Allocation	Pro Forma	Power	Lines	Trans
		Basis	\$\$\$\$	Supply		former
930.3	Misc. General Exp-Other	Prop All Expense	127,700		72,933	736
930.4	Annual Meetings	Prop All Expense	62,906		35,927	363
930.6	Cash Over or Under	Prop All Expense	390		223	2
935	General Plant Maintenance	Prop All Expense	480,841		274,623	2,771
	Total Admin & General		1,571,628	-	897,605	9,058
			-		-	-
403	Deprec. Distribution Plant		2,097,779		1,431,876	288,434
403	Deprec. General Plant		129,782		74,123	748
	Total Depreciation		2,227,561	-	1,505,999	289,182
			-			
408.1	City Payroll Tax	Net Plant	5,214		3,512	662
408.6	PSC Assessment	Net Plant	36,000		24,252	4,571
426.11	Donations		(0)			
	Total Miscellaneous		41,214	-	27,765	5,233
			-		-	-
	Total Interest on LTD	Rate Base	426,956		287,710	54,311
		Rate Base				
	Total Short Term Interest	Rate Base	6,939		4,676	883
			-			
	Total Costs		27,566,134	17,650,964	5,945,430	391,180

LICKING VALLEY RECC
Case No. 2016-00174

Functionalization of Costs

	Allocation	Services		Meters	Cons&Acct		Outdoor
		Services	Basis		Services	Lighting	
930.3	Misc. General Exp-Other	10,171	Prop All Expense	17,475	20,688	5,697	
930.4	Annual Meetings	5,010	Prop All Expense	8,608	10,191	2,806	
930.6	Cash Over or Under	31	Prop All Expense	53	63	17	
935	General Plant Maintenance	38,299	Prop All Expense	65,801	77,897	21,450	
	Total Admin & General	125,179		215,069	254,607	70,109	
		-		-	-	-	
403	Deprec. Distribution Plant	199,540		103,317	-	74,612	
403	Deprec. General Plant	10,337		17,760	21,025	5,790	
	Total Depreciation	209,877		121,077	21,025	80,401	
408.1	City Payroll Tax	490	Net Plant	293	67	189	
408.6	PSC Assessment	3,380	Net Plant	2,025	465	1,306	
426.11	Donations						
	Total Miscellaneous	3,869		2,318	533	1,496	
		-		-	-	-	
	Total Interest on LTD	40,096		23,949	5,403	15,487	
	Total Short Term Interest	652		389	88	252	
	Total Costs	828,963		1,134,728	1,195,488	419,381	

FUNCTIONALIZATION OF COSTS
FOOTNOTES

(a)		Amount	Percent					
	Plant Balances							
	Poles, Towers & Fixtures	22,591,216						
	Overhead Conductor	19,204,291						
	Underground Conductor	598,232						
	Subtotal	42,393,739	87.8%					
	Services	5,912,174	12.2%					
	Total	48,305,913	100.0%					
(b)		<u>Expense Proportion</u>						
		Lines	Transformers	Services	Meters	Lighting	Total	
583	O/H Line	840,428	-	117,205	-	-	957,632	
584	U/G line	7,254	-	1,012	-	-	8,266	
586	Meter		-		428,445	-	428,445	
587	Constr Install Eq		-			215,144	215,144	
	Total	847,682	-	118,217	428,445	215,144	1,609,488	
	Percent	52.67%	0.00%	7.34%	26.62%	13.37%	100.0%	

LICKING VALLEY RECC
 CASE NO. 2016-00174

FUNCTIONALIZATION OF COSTS
 FOOTNOTES

[c]	Expense Proportion	Lines	Transformers	Services	Meters	Total		
593.	O/H Lines	709,072	-	98,886		807,958		
593.1	R-O-W	114,934	-	16,029	-	130,963		
593.6	R-O-W Contract	1,312,470		183,035		1,495,505		
593.5	Storm damage	7,832		1,092	-	8,924		
595	Transformers		31,260		-	31,260		
597	Meters				260,378	260,378		
	Total Distribut Maintena	2,144,308	31,260	299,042	260,378	2,734,988		
	Percent	78.40%	1.14%	10.93%	9.52%	100.00%		
(d)	Expense Proportion	Lines	Transformers	Services	Meters	Consumer	Lighting	Total
	Total Distribution Oper	991,462	-	138,268	501,116	-	251,636	1,882,482
	Total Distribution Maint	2,230,213	32,512	311,023	270,809	-	-	2,844,557
	Total Consumer Acctg	-	-	-	-	900,730	-	900,730
	Total Customer Service	-	-	-	-	13,103	-	13,103
	Total	3,221,676	32,512	449,291	771,925	913,833	251,636	5,640,873
	Percent	57.11%	0.58%	7.96%	13.68%	16.20%	4.46%	100.00%

LICKING VALLEY RECC
Case No. 2016-00174

NET INVESTMENT RATE BASE

	Description	\$\$\$\$	Lines	Transformers	Services	Meters Consumer	Consumer & Accounting Services	Outdoor Lighting
360	Land & Land Rights							
362	Station eqt	31,442	31,442					
364	Poles, towers	22,591,216	22,591,216					
365	O\H consuctor	19,204,291	19,204,291					-
366	UG conductor	598,232	598,232					
367	Transformers	8,546,043		8,546,043				
368	Services	5,912,174			5,912,174			
369	Meters	1,556,447				1,556,447		
370	AMR meters	1,504,745				1,504,745		
371	Security Lights	2,210,675						2,210,675
	Total Distribution Plant	62,155,266	42,425,181	8,546,043	5,912,174	3,061,193	-	2,210,675
			68.26%	13.75%	9.51%	4.93%	0.00%	3.56%
	Total General Plant	5,390,822	3,078,864	31,071	429,374	737,707	873,324	240,481
			57.1%	0.6%	8.0%	13.7%	16.2%	4.5%

LICKING VALLEY RECC
Case No. 2016-00174

NET INVESTMENT RATE BASE

Description	\$\$\$	Lines	Transformers	Services	Meters Consumer	Consumer & Accounting Services	Outdoor Lighting
Total Utility Plant	67,546,087	45,504,045	8,577,114	6,341,548	3,798,899	873,324	2,451,157
Accum. Depreciation	25,241,298	17,004,407	3,205,182	2,369,773	1,419,611	326,353	915,973
Net Plant	42,304,789	28,499,638	5,371,932	3,971,775	2,379,289	546,972	1,535,184
	68,782,735	67.37%	12.70%	9.39%	5.62%	1.29%	3.63%
CWIP	1,236,648.02	844,096	170,033	117,629	60,906	-	43,984
	43,541,437	29,343,734	5,541,965	4,089,404	2,440,194	546,972	1,579,168
Plus							
Cash Working Capital	906,343	610,580	115,089	85,092	50,974	11,718	32,890
Materials & Supplies	518,267	349,143	65,810	48,657	29,148	6,701	18,807
Prepayments	125,769	84,727	15,970	11,808	7,073	1,626	4,564
Minus: Consumer Advances	282,732	192,984	38,874	26,893	13,925	-	10,056
Net Investment Rate Base	44,809,084	30,195,201	5,699,961	4,208,068	2,513,466	567,017	1,625,373
Percentage		67.39%	12.72%	9.39%	5.61%	1.27%	3.63%

LICKING VALLEY RECC
CASE NO. 2016-00174
CLASSIFICATION OF COSTS

Acct No.	Description	Pro Forma \$\$\$\$	Power Supply		Lines	
			Demand	Energy	Demand	Consumer
555	Demand Charges	3,908,605	3,908,605			
	Energy Charges	13,343,356	-	13,343,356		
	Load Center Charges	399,003			399,003	
	Total Purchased Power	17,650,964	3,908,605	13,343,356	399,003	
580	Super & Eng	109,403			28,248	29,372
583	O/H Line	957,632			412,245	428,182
584	U/G line	8,266			3,326	3,928
586	Meter	428,445				
587	Constr Install Eq	215,144			42,240	43,921
588	Misc Dist Eq	163,592			486,059	505,403
	Total Operations	1,882,482				
		0				
590	Supervision	109,569			42,138	43,767
593.	O/H Lines	807,958			347,813	361,259
593.1	R-O-W	130,963			56,377	58,557
593.61	R-O-W Contract	1,495,505			643,791	668,679
593.9	Storm damage	8,924			3,842	3,990
595	Transformers	31,260				
597	Meters	260,378				
	Total Distribut Maintenance	2,844,557	-	-	1,093,961	1,136,252
901	Supervision	30,059				
902	Meter Reading Expense	68,905				
903	Cons Recds & Collections	656,767				
904	Uncollectible Accounts	145,000				
	Total Consumer Accounts	900,730				
907	Supervision, Customer service	1,200				
908	Customer Assist. Expense	49,290				
909	Customer Information Exp	(75,163)				
913	Advertising	37,776				

LICKING VALLEY RECC
CASE NO. 2016-00174
CLASSIFICATION OF COSTS

Acct	Description	Pro Forma		Power Supply		Lines	
		Energy	Demand	Energy	Demand	Consumer	Consumer
	Total Customer Service	13,103	-	-	-	-	-
	Total of Above	23,291,837	3,908,605	13,343,356	399,003	1,580,020	1,641,655
		-	-	-	-	179,150	186,076
920	Administrative Salaries	639,480	-	-	-	35,456	36,827
921	Office Supplies	126,560	-	-	-	9,753	10,130
923	Outside Services	34,815	-	-	-	-	-
928	Regulatory Comm Expenses	-	-	-	-	-	-
925	Injuries & Damages	-	-	-	-	(4,225)	(4,388)
929	Duplicate Charges	(15,080)	-	-	-	14,041	14,584
930.1	Director Fees	50,119	-	-	-	17,901	18,593
930.2	Dues	63,897	-	-	-	35,775	37,158
930.3	Misc. General Exp-Other	127,700	-	-	-	17,623	18,304
930.4	Annual Meetings	62,906	-	-	-	109	114
930.6	Cash Over or Under	390	-	-	-	134,708	139,915
935	General Plant Maintenance	480,841	-	-	-	440,292	457,313
	Total Admin & General	1,571,628	-	-	-	-	-
		-	-	-	-	656,500	775,376
403	Deprec. Distribution Plant	2,097,779	-	-	-	33,984	40,138
403	Deprec. General Plant	129,782	-	-	-	690,484	815,515
	Total Depreciation	2,227,561	-	-	-	-	-
		-	-	-	-	1,610	1,902
408.1	City Payroll Tax	5,214	-	-	-	11,119	13,133
408.6	PSC Assessment	36,000	-	-	-	-	-
426.11	Donations	(0)	-	-	-	12,730	15,035
0	Total Miscellaneous	41,214	-	-	-	-	-
		-	-	-	-	131,912	155,798
	Total Interest on LTD	426,956	-	-	-	-	-
		-	-	-	-	2,144	2,532
	Total Short Term Interest	6,939	-	-	-	-	-
		-	-	-	-	399,003	3,087,848
	Total Costs	27,566,134	3,908,605	13,343,356	399,003	2,857,582	3,087,848
		-	-	-	-	-	-

LICKING VALLEY RECC
CASE NO. 2016-00174
CLASSIFICATION OF COSTS

Acct	Description	Transformers		Services		Meters		Cons & Acct		Outdoor Lighting
		Demand	Consumer	Consumer	Consumer	Consumer	Consumer	Consumer	Consumer	
	Total Customer Service	-	-	-	-	-	-	13,103	-	-
	Total of Above	24,665	7,847	449,291	771,925	913,833	251,636			
920	Administrative Salaries	2,796	890	50,934	87,510	103,597	28,527			
921	Office Supplies	553	176	10,080	17,319	20,503	5,646			
923	Outside Services	152	48	2,773	4,764	5,640	1,553			
928	Regulatory Comm Expenses	-	-	-	-	-	-			
925	Injuries & Damages	-	-	-	-	-	-			
929	Duplicate Charges	(66)	(21)	(1,201)	(2,064)	(2,443)	(673)			
930.1	Director Fees	219	70	3,992	6,859	8,119	2,236			
930.2	Dues	279	89	5,089	8,744	10,351	2,850			
930.3	Misc. General Exp-Other	558	178	10,171	17,475	20,688	5,697			
930.4	Annual Meetings	275	88	5,010	8,608	10,191	2,806			
930.6	Cash Over or Under	2	1	31	53	63	17			
935	General Plant Maintenance	2,103	669	38,299	65,801	77,897	21,450			
	Total Admin & General	6,872	2,186	125,179	215,069	254,607	70,109			
403	Deprec. Distribution Plant	218,820	69,614	199,540	103,317	-	74,612			
403	Deprec. General Plant	567	181	10,337	17,760	21,025	5,790			
	Total Depreciation	219,388	69,794	209,877	121,077	21,025	80,401			
408.1	City Payroll Tax	502	160	490	293	67	189			
408.6	PSC Assessment	3,468	1,103	3,380	2,025	465	1,306			
426.11	Donations									
0	Total Miscellaneous	3,970	1,263	3,869	2,318	533	1,496			
	Total Interest on LTD	41,203	13,108	40,096	23,949	5,403	15,487			
	Total Short Term Interest	670	213	652	389	88	252			
	Total Costs	296,768	94,411	828,963	1,134,728	1,195,488	419,381			

LICKING VALLEY RECC
Case No. 2016-00174

Determination of Plant Investments as Demand Related or Consumer Related

Account 364 - Poles						
Pole	Investment	Number of Units	Unit Cost	Size		
25.00	2,277,072	11,078	205.55	25.00		
30.00	1,655,607	9,355	176.98	30.00		
35.00	2,287,217	9,238	247.59	35.00		
40.00	6,265,457	12,449	503.29	40.00		
45.00	2,702,622	4,620	584.98	45.00		
50.00	1,445,399	1,796	804.79	50.00		
55.00	441,824	451	979.65	55.00		
60.00	127,074	93	1,366.39	60.00		
65.00	35,833	20	1,791.65	65.00		
70.00	9,428	6	1,571.33	70.00		
75.00	3,768	2	1,884.00	75.00		
Total for Sample	17,251,301	49,108				
X Variable - (Size)	22.25					
Zero Intercept	(452.35)					
Use Minimum Size Pole			176.98			
Number of poles			49,108.00			
Consumer Related Investment			8,690,919.14			
Total Investment for sample			17,251,301.00			
Percent Customer Related			50.38%			
Percent Demand Related			49.62%			

LICKING VALLEY RECC
Case No. 2016-00174

Determination of Plant Investments as Demand Related or Consumer Related

Account 365 - Overhead Conductor						
Conductor	Investment	Number of Units	Unit Cost	Amps		
6ACWC	689	12,164	\$ 0.0566	140		
8ACWC	8,355	154,482	\$ 0.0541	100		
4 HD CU	22,935	206,906	\$ 0.1108	170		
6HD CU	8,876	107,987	\$ 0.0822	128		
1/0 ACSR	1,830,598	4,427,885	\$ 0.4134	242		
2/0 ACSR	117,654	527,534	\$ 0.2230	276		
4/0 ACSR	1,598,035	2,199,887	\$ 0.7264	357		
2 ACSR	6,485,603	12,712,740	\$ 0.5102	184		
4 ACSR	2,030,455	6,419,782	\$ 0.3163	140		
#336.4 ACSR	880,426	918,426	\$ 0.9586	519		
3/0 ACSR	23,425	2,259,903	\$ 0.0104	315		
397.5 MCM AL	110	267	\$ 0.4114	576		
Aerial Cable	83,323	72,029	\$ 1.1568	268		
4/0 Aerial Cable	4,242	7,885	\$ 0.5380	268		
Aerial Cable 2	8,106	1,430	\$ 5.6688	128		
2 SP Cable	200	838	\$ 0.2385	128		
1/0 SP Cable	7,470	950	\$ 7.8632	172		
266.8 MCM-CU	9,351	44,109	\$ 0.2120	308		
4/0 SP Cable	70,292	23,880	\$ 2.9436	268		
Total for Sample	13,190,145	30,099,084	\$ 0.4382			
X Variable - (Size)	0.00081					
Zero Intercept	0.25236					
Total Amount of Conductor in Feet		30,099,084				
Use Zero Intercept		0.25236				
Minimum Size Investment -Consumer Related		7,595,792.21		57.59%		
Demand Related		5,594,353		42.41%		
Investment in Conductor		13,190,145		100.00%		

LICKING VALLEY RECC
Case No. 2016-00174

Determination of Plant Investments as Demand Related or Consumer Related

Account 367 - Underground Conductor						
Conductor	Investment	Number of Units	Unit Cost	Amps		
Cable , UG Duplex, 600V	2,769	373	7.42	70		
2 URD Triplex	227,471	53,184	4.28	120		
4 URD Triplex	4,567	570	8.01	90		
350 URD Triplex	156,635	29,635	5.29	320		
1/0 URD Conc	33,664	13,213	2.55	155		
2/0 URD Triplex	882,420	248,394	3.55	180		
4/0 URD Triplex	942,695	292,874	3.22	240		
350 URD Quad	5,462	746	7.32	320		
2 URD CONC	756,273	172,891	4.37	119		
2 URD SOL	56,982	28,826	1.98	168		
Total for Sample	3,068,939	840,706	3.65			
X Variable - (Size)	-0.00386					
Zero Intercept	4.32554					
Total Amount of Conductor in Feet		840,706				
Use Minimum Size		1,97675				
Minimum Size Investment -Consumer Related		1,661,863.38	54.15%			
Demand Related		1,407,075	45.85%			
Investment in Conductor		3,068,938.58	100.00%			
Breakdown of Lines into Demand Related and Consumer Related Components						
	Total Sample Investment	Percent Consumer	Amount Consumer	Percent Demand	Amount Demand	
Underground Conductor	3,068,939	54.15%	1,661,863.38	45.85%	1,407,075	
Overhead Conductor	13,190,145	57.59%	7,595,792.21	42.41%	5,594,353	
Poles	17,251,301	50.38%	8,690,919.14	49.62%	8,560,382	
	20,320,239.58		10,352,782.52		9,967,457.06	
Percentage Allocations For Lines			50.95%		49.05%	

LICKING VALLEY RECC
Case No. 2016-00174

Determination of Plant Investments as Demand Related or Consumer Related

Account 368-Transformers						
Pole	Investment	Number of Units	Unit Cost	Predicted Value	Size	
1.5KVA CSP	22,260	213.00	104.51	1.50		
3.5KVA CSP	73,018	542.00	134.72	3.00		
5KVA CSP	150,249	881.00	170.54	5.00		
7.5KVA CSP	7,132	32.00	222.88	7.50		
10KVA CSP	1,031,822	4,548.00	226.87	10.00		
15KVA CSP	2,552,394	8,743.00	291.94	15.00		
25KVA CSP	2,097,274	4,013.00	522.62	25.00		
50 KVA CSP	279,152	337.00	828.35	50.00		
10 KVA	23,236	60.00	387.26	10.00		
15 KVA	425,502	660.00	644.70	15.00		
25 KVA	184,988	280.00	660.67	25.00		
37.5 KVA	21,794	46.00	473.79	37.50		
50 KVA	328,841	415.00	792.39	50.00		
75 KVA CSP	1,645	2.00	822.71			
500 KVA URD	40,445	8.00	5,055.66			
500 BARE COST	4,610	2.00	2,304.79			
300 KVA URD	15,475	4.00	3,868.82			
1667 KVA AUTO CONV	4,159	3.00	1,386.17			
2000 KVA 3PH PAD MT	16,504	4.00	4,125.96			
75KVA	12,457	13.00	958.27			
100KVA	177,408	132.00	1,344.00			
167 KVA	160,099	87.00	1,840.22			
250 KVA	57,539	22.00	2,615.40			
333 KVA	175,919	51.00	3,449.40			
500 KVA	21,706	3.00	7,235.32			
500 KVA 3PH PAD MT	79,745	11.00	7,249.53			
1500 KVA PAD MT	9,265	1.00	9,265.00			
500 KVA URD	39,937	8.00	4,992.06			
750-1000 KVA 3PH PAD MT	79,109	8.00	9,888.68			
1500 KVA PAD MT	9,265	1.00	9,265.00			
Total Sample Investment	8,102,950	21,130	383.48			
X Variable - (Size)	15.65					
Zero Intercept	67.3766					
Number of Transformers			20,770.00			
Zero Intercept			67.38			
Consumer Related Investment			1,399,412.26			
Demand Related Investment			5,798,250.94			
Percentage of Investment Consumer Related			24.14%			
Percentage of Investment Demand Related			75.86%			

ALLOCATION OF COSTS TO EACH RATE CLASS

	A	B	C	D	E	F
					Schedule A	Schedule B
1						
2		Category		Enviro	Resid. Church	Commercial
3			Amount	Watts	Halls & Prepay	Small Power.
4		Purchased Power Costs			75.91%	4.60%
5		Demand	3,908,605		2,967,132	179,625
6		Load Center Charges	399,003		292,405	15,734
7		Total Purchased Power Demand	4,307,608		3,259,537	195,359
8						
9		Energy	13,343,356	746	9,983,821	514,305
10						
11		Distribution Costs				
12		Demand Related				
13		Lines	2,857,582		2,094,148	112,683
14		Transformers	296,768		217,483	11,702
15		Total Demand Related	3,154,350		2,311,631	124,386
16						
17		Consumer Related				
18		Lines	3,087,848		2,866,459	158,950
19		Transformers	94,411		78,976	10,088
20		Services	828,963		647,495	35,905
21		Meters	1,134,728		1,047,609	58,092
22		Consumer Svc				
23		& Accouting	1,195,488		719,361	46,516
24		Total Consumer Related	6,341,439		5,359,900	309,551
25						
26		Outdoor Lighting	419,381			
27						
28		Total Costs	27,566,134	746	20,914,889	1,143,601
29						
30						
31		Purchased Power Demand Costs	4,307,608		3,259,537	195,359
32		Purchased Power Energy Costs	13,343,356	746	9,983,821	514,305
33		Distribution Demand Costs	3,154,350		2,311,631	124,386
34		Distribution Consumer Costs	6,341,439		5,359,900	309,551
35		Distribution Outdoor Lighting	419,381			
36						
37		Total Costs	27,566,134	746	20,914,889	1,143,601

ALLOCATION OF COSTS TO EACH RATE CLASS

	B	C	G	H	I	J
1			Schedule LP	Schedule LPR	Schedule SL	
2	Category		Large Power	Large Power	Security	
3		Amount	Service	Rate	Lights	Total
4	Purchased Power Costs		15.69%	3.14%	0.66%	100.00%
5	Demand	3,908,605	613,251	122,680	25,917	3,908,605
6	Load Center Charges	399,003	70,574	12,975	7,315	399,003
7	Total Purchased Power Demand	4,307,608	683,826	135,655	33,232	4,307,608
8						
9	Energy	13,343,356	1,865,397	642,616	336,471	13,343,356
10						
11	Distribution Costs					
12	Demand Related					
13	Lines	2,857,582	505,440	92,924	52,387	2,857,582
14	Transformers	296,768	52,491	9,650	5,441	296,768
15	Total Demand Related	3,154,350	557,931	102,574	57,827	3,154,350
16						
17	Consumer Related					
18	Lines	3,087,848	38,177	892	23,370	3,087,848
19	Transformers	94,411	3,674	784	890	94,411
20	Services	828,963	125,419	2,212	17,932	828,963
21	Meters	1,134,728	27,894	1,133	-	1,134,728
22	Consumer Svc					
23	& Accounting	1,195,488	56,159	2,111	371,342	1,195,488
24	Total Consumer Related	6,341,439	251,323	7,131	413,533	6,341,439
25						
26	Outdoor Lighting	419,381			419,381	419,381
27						
28	Total Costs	27,566,134	3,358,477	887,977	1,260,445	27,566,134
29						
30						
31	Purchased Power Demand Costs	4,307,608	683,826	135,655	33,232	4,307,608
32	Purchased Power Energy Costs	13,343,356	1,865,397	642,616	336,471	13,343,356
33	Distribution Demand Costs	3,154,350	557,931	102,574	57,827	3,154,350
34	Distribution Consumer Costs	6,341,439	251,323	7,131	413,533	6,341,439
35	Distribution Outdoor Lighting	419,381			419,381	419,381
36						
37	Total Costs	27,566,134	3,358,477	887,977	1,260,445	27,566,134

LICKING VALLEY RECC
CASE NO. 2016-00174
ENERGY AND DEMAND ALLOCATORS

Demand Related Costs and Energy Related Costs Allocators

Allocation of Purchased Power Costs is proportional on actual sales to end use customers													
A. Energy Sales	Farm & Home Residential		Small Commercial		Large Power Service		Large Power Rate		Security Lights SL		Enviro Watts		Total
	A	B	A	B	A	B	A	B	A	B	A	B	
Month													
November	19,479,006	872,143	2,967,861	1,188,972	534,578	0	25,042,560						
December	21,475,812	896,682	2,998,942	1,121,716	537,829	0	27,030,981						
January	21,790,125	936,422	3,278,849	1,172,608	528,886	0	27,706,890						
February	23,939,832	929,206	3,148,429	1,015,496	536,100	0	29,569,063						
March	13,820,038	743,111	2,683,485	861,444	529,709	0	18,637,787						
April	11,189,134	689,511	2,731,333	900,476	534,511	0	16,044,965						
May	12,627,440	803,806	3,049,455	1,037,336	534,664	0	18,052,701						
June	13,791,019	787,808	2,769,486	955,236	534,909	0	18,838,458						
July	15,960,391	906,528	3,247,570	1,104,456	535,066	0	21,754,011						
August	13,875,454	800,999	3,164,184	1,072,644	534,263	0	19,447,544						
September	10,132,626	699,757	2,780,145	895,716	534,031	0	15,042,275						
October	12,066,908	728,548	2,705,198	911,988	533,270	0	16,945,912						
Total	-	190,147,785	9,794,521	35,524,937	12,238,088	6,407,816	254,113,147						
Percent		74.83%	3.85%	13.98%	4.82%	2.52%	100.00%						
Used to allocate purchased power energy costs to retail rate classes. Wholesale energy costs for rate classes LP1 And LP2 are directly assigned.													

LICKING VALLEY RECC
 CASE NO. 2016-00174
 ENERGY AND DEMAND ALLOCATORS

Demand Related Costs and Energy Related Costs Allocators

Month	Farm & Home Residential		Small Commercial		Large Power Service		Large Power Rate		Security Lights SL		Enviro Watts		Total
	A	B	A	B	A	B	A	B	A	B	A	B	
November	45,288	3,572	11,779		2,228		1,239						64,106
December	43,250	2,700	10,173		2,089		1,258						59,470
January	57,136	3,000	11,472		2,030		1,201						74,839
February	73,120	2,501	11,313		1,995		1,154						90,083
March	54,588	1,729	11,377		2,010		1,197						70,901
April	35,646	2,296	10,936		2,091		1,170						52,139
May	42,015	2,228	12,114		2,149		1,145						59,651
June	42,985	2,089	10,964		2,259		1,131						59,428
July	42,603	2,392	11,999		2,281		1,205						60,480
August	43,366	2,612	12,203		2,229		1,196						61,606
September	49,485	3,117	12,790		2,188		1,177						68,757
October	40,277	2,422	10,396		1,733		1,180						56,008
Total	569,759	30,658	137,516		25,282		14,253						777,468
Percent	73.28%	3.94%	17.69%		3.25%		1.83%						100.00%
Used to allocate distribution demand related costs to appropriate rate classes													

LICKING VALLEY RECC
Case No. 2016-00174

Consumer Related Costs Allocators

A. Lines (poles and conduit)		Number of Consumers	Allocation Percent	Combined
Schedule I - Residential	16,022	92.56%	92.83%	
Schedule I - Prepay	46	0.27%		
Small Commercial	891	5.15%	5.15%	
Large Power Primary	209	1.21%	1.24%	
Large Power	5	0.029%		
Large Commercial	2	0.012%	0.03%	
LPR Large Power	3	0.02%		
Lights	131	0.76%	0.76%	
	17,309	100.0%		
B. Transformers		Minimum Transformer Cost	Relative Weight	Weight
Rate Class	Number of Consumers	Allocation Percent	Combined	
Schedule I - Residential	16,022	83.411%	83.65%	
Schedule I - Prepay	46	0.239%		
Small Commercial	891	10.685%	10.69%	
Large Power Primary	209	3.800%	3.89%	
Large Power	5	0.091%		
Large Commercial	2	0.332%	0.83%	
LPR Large Power	3	0.498%		
Lights	131	0.942%	0.94%	
	17,309	100.0%		

Consumer Related Costs Allocators

C. Services	# of Consumers	Minimum Service Cost	Relative Cost	Weight	Allocation Percent	Combined
Schedule I - Residential	16,022	26.00	0.04	585.53	77.89%	78.11%
Schedule I - Prepay	46	26.00	0.04	1.68	0.22%	
Small Commercial	891	26.00	0.04	32.56	4.33%	4.33%
Large Power Primary	209	234.00	0.33	68.74	9.14%	15.13%
Large Power	5	234.00	9.00	45.00	5.99%	
Large Commercial	2	711.45	1.00	2.00	0.27%	0.27%
LPR Large Power	3	1.40	0.00	0.01	0.00%	
Lights	8,264	1.40	0.00	16.26	2.16%	2.16%
				751.78	1.00	
	25,442					
D. Meters		Minimum Meter Cost	Relative Cost	Weight	Allocation Percent	Combined
Rate Class	# of Consumers					
Schedule I - Residential	16,022	132.58	1.00	16,022.00	92.06%	92.32%
Schedule I - Prepay	46	132.58	1.00	46.00	0.26%	
Small Commercial	891	132.58	1.00	891.00	5.12%	5.12%
Large Power Primary	209	265.06	2.00	417.84	2.40%	2.46%
Large Power	5	265.06	2.00	10.00	0.06%	
Large Commercial	2	460.71	3.47	6.95	0.04%	0.10%
LPR Large Power	3	460.71	3.47	10.42	0.06%	
Lights	131	36.00	0.27	-	0.00%	
	-	-	-	-		
	17,309			17,404.21	1.00	

LICKING VALLEY RECC
CASE NO. 2016-00174
UNBUNDLED STATEMENT OF OPERATIONS

	Total	Enviro Watts	Farm & Home		Small		Large	
			Residential A	Commercial B	Power Service	Power Rate		
Normalized Revenue from Rates	\$26,103,763	864	\$19,588,169	1,041,363	3,547,808	947,984		
Wholesale Demand Costs								
Generation	3,908,605		2,967,132	179,625	613,251	122,680		
Distribution Substation	399,003		292,405	15,734	70,574	12,975		
Total Wholesale Demand	4,307,608	-	3,259,537	195,359	683,826	135,655		
Wholesale Energy Costs	13,343,356	746	9,983,821	514,305	1,865,397	642,616		
Total Wholesale Costs	17,650,964	746	13,243,357	709,664	2,549,223	778,271		
Gross Margin	8,452,798	118	6,344,812	331,699	998,585	169,712		
Distribution Demand Costs								
Lines	2,857,582		2,094,148	112,683	505,440	92,924		
Transformers	296,768		217,483	11,702	52,491	9,650		
Total Distribution Demand	3,154,350		2,311,631	124,386	557,931	102,574		
Distribution Consumer								
Lines	3,087,848		2,866,459	158,950	38,177	892		
Transformers	94,411		78,976	10,088	3,674	784		
Services	828,963		647,495	35,905	125,419	2,212		
Meters	1,134,728		1,047,609	58,092	27,894	1,133		
Consumer Services	1,195,488	-	719,361	46,516	56,159	2,111		
Lighting	419,381		-					
Total Distribution Consumer	6,760,820	-	5,359,900	309,551	251,323	7,131		
Total Distribution Costs	9,915,170	-	7,671,532	433,937	809,254	109,705		
Margin before Other Revenue	(1,462,372)	118	(1,326,720)	(102,238)	189,331	60,007		
Allocation of Other Elec. Revenue	432,197	0	391,814	20,830	-	-		
Net Margin	(1,030,174)	118	(934,906)	(81,408)	189,331	60,007		

LICKING VALLEY RECC
CASE NO. 2016-00174
UNBUNDLED STATEMENT OF OPERATIONS

	Security	
	Lights	Total
	SL	
Normalized Revenue from Rates	977,576	26,103,763
Wholesale Demand Costs		
Generation	25,917	3,908,605
Distribution Substation	7,315	399,003
Total Wholesale Demand	33,232	4,307,608
Wholesale Energy Costs	336,471	13,343,356
Total Wholesale Costs	369,703	17,650,964
Gross Margin	607,872	8,452,798
Distribution Demand Costs		
Lines	52,387	2,857,582
Transformers	5,441	296,768
Total Distribution Demand	57,827	3,154,350
Distribution Consumer		
Lines	23,370	3,087,848
Transformers	890	94,411
Services	17,932	828,963
Meters	-	1,134,728
Consumer Services	371,342	1,195,488
Lighting	419,381	419,381
Total Distribution Consume	832,914	6,760,820
Total Distribution Costs	890,742	9,915,170
Margin before Other Revenue	(282,869)	(1,462,372)
Allocation of Other Elec. Revenue	19,554	432,197
Net Margin	(263,315)	(1,030,174)

LICKING VALLEY RECC
CASE NO. 2016-00174

SUMMARY OF INCREASE BY RATE CLASS

	Farm & Home		Small		Large		Security		
	Enviro	Residential	Commercial	Power	Power	Lights	Power	Lights	
	Watts	A	B	Service	Rate	SL	Rate	SL	
Total								Total	
Revenue Requirements									
Total Costs	746	20,914,889	1,143,601	3,358,477	887,977	1,260,445	27,566,134		
Plus Margin Requirements	-	423,922	24,275	49,956	7,405	28,136	533,695		
Revenue Requirements	746	21,338,811	1,167,876	3,408,433	895,381	1,288,581	28,099,829		
Minus Revenue from Rates	864	19,588,169	1,041,363	3,547,808	947,984	977,576	26,103,763		
Increase Amount	(118)	1,750,642	126,513	(139,374)	(52,602)	311,005	1,996,066		
Less: Other Revenue	-	391,814	20,830	-	-	19,554	432,197		
Net Increase Amount	(118)	1,358,829	105,683	(139,374)	(52,602)	291,451	1,563,869		
Less: Increase amount	0	\$1,372,032	\$88,193	\$53,112	\$527	\$48,795	1,562,659		
Under (Over) Recovery	(118)	(13,203)	17,490	(192,486)	(53,130)	242,657	1,210		
State of Oper with Increase									
Revenue from Rates	864	19,588,169	1,041,363	3,547,808	947,984	977,576	26,103,763		
Rate Increase	\$0	\$1,372,032	\$88,193	\$53,112	\$527	\$48,795	\$1,562,659		
Total Rate Revenue	864	20,960,201	1,129,556	3,600,920	948,511	1,026,370	27,666,422		
Purchased Power Costs	746	13,243,357	709,664	2,549,223	778,271	369,703	17,650,964		
Gross Margins	118	7,716,844	419,892	1,051,697	170,240	656,667	10,015,457		
Distribution Costs	-	7,671,532	433,937	809,254	109,705	890,742	9,915,170		
Margins before Other Rev.	118	45,312	(14,045)	242,443	60,534	(234,075)	100,287		
Plus Other Revenue	-	391,814	20,830	-	-	19,554	432,197		
Net Margins with Increase	118	437,126	6,785	242,443	60,534	(214,521)	532,485		
Interest Expense		423,922	24,275	49,956	7,405	28,136	533,695		
TIER	-	2.29	1.35	7.07	11.22	(8.53)	2.25		
OTIER	-	1.11	0.42	5.85	9.18	(7.32)	1.19		
Rate Base		35,927,833	2,038,240	3,941,459	575,269	2,326,283	44,809,084		
Return on Rate Base	0.00%	2.40%	1.52%	7.42%	11.81%	-8.01%	2.38%		

LICKING VALLEY RECC
Case No. 2016-00174
Unbundled Rate Base

Function Classification	Amount	Schedule A		Schedule B		Schedule LP		Schedule LPR		Schedule SL	
		Resid. Church Halls & Prepay	Commercial Small Power.	Large Power Service	Large Power Rate	Security Lights	Total				
Lines											
	30,195,201										
Demand Consumer	14,811,310	10,854,308	584,056	2,619,776	481,640	271,530	14,811,310				
	15,383,891	14,280,915	791,903	190,199	4,444	116,430	15,383,891				
Transformer	5,699,961										
Demand Consumer	4,324,271	3,693,266	182,282	352,865	63,027	32,831	4,324,271				
	1,375,690	1,150,777	146,997	53,530	11,420	12,966	1,375,690				
Services											
Demand Consumer	4,208,068	3,286,884	182,264	636,666	11,228	91,026	4,208,068				
Meters											
Demand Consumer	2,513,466	2,320,494	128,676	61,787	2,509	-	2,513,466				
Consumer Acct & Serv.	567,017	341,191	22,062	26,636	1,001	176,126	567,017				
Outdoor Lighting	1,625,373					1,625,373	1,625,373				
Total	44,809,084	35,927,833	2,038,240	3,941,459	575,269	2,326,283	44,809,084				

SUMMARY OF INCREASE BY RATE CLASS

	Total	Enviro		Farm & Home		Small		Large		Large		Security	
		Watts	A	Residential	Commercial	B	Power Service	Power Rate	Lights SL	Total			
Revenue Requirements													
Total Costs	27,566,134	746	20,914,889	1,143,601	3,358,477	887,977	1,260,445	27,566,134					
Plus Margin Requirements	533,695	-	423,922	24,275	49,956	7,405	28,136	533,695					
Revenue Requirements	28,099,829	746	21,338,811	1,167,876	3,408,433	895,381	1,288,581	28,099,829					
Minus Revenue from Rates	26,103,763	864	19,588,169	1,041,363	3,547,808	947,984	977,576	26,103,763					
Increase Amount	1,996,066	(118)	1,750,642	126,513	(139,374)	(52,602)	311,005	1,996,066					
Less: Other Revenue	432,197	-	391,814	20,830	-	-	19,554	432,197					
Net Increase Amount	1,563,869	(118)	1,358,829	105,683	(139,374)	(52,602)	291,451	1,563,869					
Less: Increase amount	\$1,562,659	0	\$1,372,032	\$88,193	\$53,112	\$527	\$48,795	1,562,659					
Under (Over) Recovery	1,210	(118)	(13,203)	17,490	(192,486)	(53,130)	242,657	1,210					
State of Oper with Increase													
Revenue from Rates	26,103,763	864	19,588,169	1,041,363	3,547,808	947,984	977,576	26,103,763					
Rate Increase	\$1,562,659	\$0	\$1,372,032	\$88,193	\$53,112	\$527	\$48,795	\$1,562,659					
Tota Rate Revenue	27,666,422	864	20,960,201	1,129,556	3,600,920	948,511	1,026,370	27,666,422					
Purchased Power Costs	17,650,964	746	13,243,357	709,664	2,549,223	778,271	369,703	17,650,964					
Gross Margins	10,015,457	118	7,716,844	419,892	1,051,697	170,240	656,667	10,015,457					
Distribution Costs	9,915,170	-	7,671,532	433,937	809,254	109,705	890,742	9,915,170					
Margins before Other Rev.	100,287	118	45,312	(14,045)	242,443	60,534	(234,075)	100,287					
Plus Other Revenue	432,197	-	391,814	20,830	-	-	19,554	432,197					
Net Margins with Increase	532,485	118	437,126	6,785	242,443	60,534	(214,521)	532,485					
Interest Expense	533,695		423,922	24,275	49,956	7,405	28,136	533,695					
TIER	2.25	-	2.29	1.35	7.07	11.22	(8.53)	2.25					
OTIER	1.19	-	1.11	0.42	5.85	9.18	(7.32)	1.19					
Rate Base	44,809,084		35,927,833	2,038,240	3,941,459	575,269	2,326,283	44,809,084					
Return on Rate Base	2.38%	0.00%	2.40%	1.52%	7.42%	11.81%	-8.01%	2.38%					