Exhibit No.:

Witness: Martin O. Penning

Sponsoring Party: Empire District Electric Type of Exhibit: Direct/Rebuttal

Case Nos: EO-2007-0029 and EE-2007-0030 consolidated

Date Testimony Prepared: November 20, 2006

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

PREPARED TESTIMONY OF Martin O. Penning

> Jefferson City, Missouri November 2006

2	Direct /Rebuttal Testimony for Martin Penning
3	Case Nos. EO-2007-0029 and EE-2007-0030
4	
5	
6	Q. Please state your name and business address.
7	A. Martin Penning; 215 W. Main; Branson, Missouri.
8	Q. By whom and in what capacity are you employed?
9	A. I am the Director of Commercial Operations-Eastern Division of the Empire District Electric Company
10	Q. Please briefly describe your professional experience.
11	A. I received a Bachelors Degree in Electrical Engineering from the University of Missouri-Rolla in 1980
12	after which I began my career at Empire District Electric Company. I have worked in numerous positions
13	at Empire including: engineer, Staff Engineer, Manager of Planning and Protection, Manager of System
14	Planning, Director of Strategic Planning, Director of Planning & Regulatory, Director of Engineering &
15	Line Services and now most recently as the Director of Commercial Operations-Eastern Division. I am a
16	member of the Institute of Electrical and Electronics Engineers and have served on numerous Southwest
17	Power Pool committees and task forces. I have also performed numerous cost-benefit analyses in my
18	career.
19	Q. Does that professional experience entail making estimates and cost projections for the provision of electri
20	service to residential subdivisions?
21	A. I do not personally make these estimates and projections although I am familiar with them. The
22	individuals responsible for making those estimates are under my purview.
23	Q. Are you generally familiar with the terms of Empire's tariff as approved by the
24	Missouri Public Service Commission?
25	A. Yes, I am.
26	Q. Have you previously testified before the Missouri Public Service Commission?
27	A. No.

28	Q On whose behalf are you sponsoring testimony in this proceeding?
29	A. The Empire District Electric Company
30	Q. What is the purpose of your testimony?
31	A. The purpose of my testimony is to provide evidence in support of the application for approval of a
32	proposed territorial agreement jointly filed by Empire and Ozark Electric Cooperative on July 18, 2006,
33	and the accompanying application for variance Empire filed at the same time. In particular, I sponsor the
34	attachments to the application for variance. Although I did not prepare the original documents, I have
35	reviewed them. I agree with the notation in the Staff's recommendation that there is a typographical error
36	in Appendix B where the cost of Empire obtaining the existing Ozark facilities in the subdivision is listed
37	as \$117,921.74. The correct figure should be \$177, 921.74.
38	I will also respond to comments that have been made about the two applications by the Staff of the
39	Missouri Public Service Commission in the memorandum and recommendation that was filed on October
40	10, 2006.
41	My testimony is being presented in conjunction with that of Mike Palmer.
42	In summary, my testimony will be that I believe there is sufficient good cause for the Commission to
43	approve the variance being sought by Empire so that the proposed First Territorial Agreement between
44	Empire and Ozark can be approved and implemented.
45	Q. Have you reviewed what was attached as Appendix B to the variance application filed by Empire?
46	A. Yes, I have. I have checked with Ozark Electric and I have confirmed that a typographical error was
47.	made by Empire when it was originally prepared. As I said, this is the error that was mentioned by the
48.	Staff in its memorandum. The error resulted in an understatement of the cost to purchase the Ozark
49	facilities by \$60,000. I have re-run the spreadsheets with that change and corrected the spelling of the word
50	'Shuyler' only and I have attached the corrected version, identified as Appendix B First Revised, to my
51	testimony.
52	Q. Is Appendix B First Revised, as you have attached it, true and correct to the best of your knowledge,
53	information and belief?
54	A. Yes, it is.

55	Q. How many acres are there in a square mile?
56	A. 640
57	Q. How many acres are there in The Lakes at Shuyler Ridge subdivision?
58	A. According to the legal description I saw, approximately 245.
59	Q. How many acres would Empire obtain as an exclusive service territory if the proposed territorial
60	agreement and variance are approved by the Commission?
61	A. The proposed area covers approximately 4.5 square miles, which would be 2,880 acres.
62	Q. Do you agree with the observation in the Staff memo that the area subject to the proposed variance is
63	approximately one-twelfth of the size of the exclusive service territory Empire would obtain under the
64	territorial agreement?
65	A. Yes. If you divide 2,880 acres by 12 you get 240, which is five acres less than that contained in the
66	subdivision.
67	Q. Does the proposed variance apply to the cost of electricity itself?
68	A. No. The variance only applies to the costs of the electrical facilities themselves and to some decorative
69	street lights that the developer of the subdivision requires. There would not be any deviation from the tariff
70	for any locations outside of this one particular 245 acre subdivision. And, that is only necessary so Empire
71	can meet the terms that Ozark Electric Cooperative has contractually agreed to provide to the developer.
72	Q. From the perspective of an electrical engineer, are you aware of any engineering reason why the granting
73	of the variance would be inappropriate?
74	A. No. While it may call for Empire to do things in a different manner than the tariff, it is not that
75	different from what we normally do.
76	Q. From the perspective of an electrical engineer who has done cost/benefit analyses for a public utility, are
77	you aware of any economic reason why the granting of the variance would be inappropriate?
78	A. No. It appears to be a comparatively small price to obtain the exclusive right to serve an area twelve
79	times larger than the subdivision for the indefinite future at the normal tariff rate and terms. It also does not
80	appear unreasonable to me because all Empire is seeking is the ability to match the price of a competitor.
81	That takes place in the non-regulated retail world all the time. I wouldn't call that unreasonable or
82	inappropriate.

83	
84	Q. Does Empire have any tariffs that allow some people to receive a particular service while denying that
85	same service to others who might want it?
86	A. Empire has a program tailored to specific elderly customers to ensure that their bills are handled
87	properly. Some of the special services provided include: allowing them to choose their own payment date,
88:	the option of sending a third party notification if the elderly individual's account becomes delinquent, the
89	waiver of late payment charges, etc.
90	Q. Have you read the Staff's memorandum and recommendation in this case?
91	A. Yes, I have.
92	Q. Do you have any comments on its content?
93	A. Yes. Comments made in the Staff memorandum suggest that Empire believes there is no difference in
94	the outcome of this request versus our normal business practice. That is not the case. Empire fully
95	understands there are differences, but believes that in this special case the request for variance is justified.
96	The projected total cost for the facilities to serve this development is approximately \$1.8M. The projected
97	10-year revenue is \$5.6M. Empire believes this project provides a good return on investment.
98	Q. Do you agree with the observation in the Staff memo that this "appears to be a unique exception that was
99	prompted by the events surrounding the territorial agreement and variance request"?
100	A. Yes, I do. As noted by the Staff, it has not been Empire's policy in the last decade or so to more
101	aggressively compete with rural electric cooperatives for new residential customers. From what I know
102	and have read regarding this situation south of Republic, this is unique and involves a lot of different
103	interests.
104	Empire has to have permission from the Commission to treat this one specific area (the subdivision of The
105	Lakes at Shuyler Ridge) differently from other subdivisions in order to make the deal made by all the
106	parties work. None of the other parties have to seek the permission of any sort of regulatory body to be
107	able to make their agreement take effect.
108	Q. Does this conclude your prepared testimony in this case?

A. Yes.

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111	
112	
113	·
114	A ENERGY A E YEAR
115	AFFIDAVIT
116	
117	STATE OF MISSOURI
118	) ss
119	COUNTY OF JASPER
120	,
121	Martin Penning, of lawful age, on his oath sates that he has participated in the preparation of the preceding prepared testimony; that he has knowledge of the
122	of the preceding prepared testimony; that he has knowledge of the matters set forth therein; and
123	that such matters are true and correct to the best of his knowledge and belief.
124	belief.
125	Martin Q Lat
126	(signature of witness)
127	
128	Subscribed and sworn to before me this 20th day of November, 2006.
129	
130	
131	(notary seal)
132	the A
133	(signature of notary)
	SHAWN M. PINGLETON
	Notary Taney County
	Seal . My Commission Expires
	77,91 M197 March 9, 2007

### LAKES AT SHUYLER RIDGE

two Elec. pense & mue/5-Year	(587,088.06)	(454,255.20)	(564,004.80)	(429,483.60)	(2,034,831.66)
Difference btwn Elec. Facillies Expense & Generated Revenue/5-Year.	\$ (5	\$ (4	\$ (5		
Total Generated Revenue/5-Year		840,235.20	1,044,844.80	794,883.60 \$	3,915,824.40
Total Generated Revenue/Year	2,672.16 \$ 247,172.16 \$ 1,235,860.80	1,547.04 \$ 168,047.04 \$ 840,235.20	,968.96 \$ 208,968.96	158,976.72 \$	7,664.88 \$ 783,164.88 \$ 3,915,824.40 \$
			1,968.96	1,476.72 \$	
Generated Electricty Generated Lighting Revenue/Year Revenue/Year	3 244,500.00 \$	24,531.00 \$ 166,500.00 \$	\$ 207,000.00 \$	\$ 157,500.00 \$	775,500.00
Cost Difference (Elec.   Facilities & Rebate   Amount)	436,677.00 \$ 109,219.74 \$		30,498.00 \$	23,205.00	187,453.74 \$
Normal Subdy, Rebate Amount	436,677.00	\$ 297,369.00 \$	369,702.00 \$	281,295.00	517.00 \$ 1,385,043.00 \$
Number of Services	163	111	138	105	517.00
Total Electrical Facilities Expense	\$ 648,772.74	\$ 385,980.00	\$ 480,840.00	365,400.00	\$ 1,880,992.74 \$
Lighting Electrical Facilities Expense	\$ 57,000.00	31,080.00 \$ 33,000.00 \$	\$ 42,000.00 \$	31,500.00	\$ 163,500.00 \$ 1,880,99
Service Electrical Facilities Expense	\$ 45,876.00 \$		\$ 38,640.00 \$	\$ 29,400.00	144,996.00
Primary & Secondary Electrical Facilities Expense	\$ 545,896.74 \$	\$ 321,900.00 \$	\$ 400,200.00 \$	\$ 304,500.00 \$	TOTAL S 1,572,496.74 S 144,996.00 S
Development Phases	Phase I	Phase II	Phase III	Phase IV	TOTAL

Residential Annual Revenue Estimate: Normal Subdivision Rebate Amount:	s s	1,500.00 /year 2,679.00 /lot	/year /lot		
Services, Meters, Service Labor, and Meter Labor: Primary & Secondary Facilities:	s so	280.00 /lot 2,900.00 /lot	Aot Aot		
Street Lights:	1 I.	1 light / 5 lots		Phase I	
Empire's Cost Per Street Light: Customer's Cost Per Street Light:	୫୨ ୫୨	1,500.00		Phase II Phase III	
City Cost Per Light:	69	70.32	70.32 /year	Phase VI	

38 22 23 21

Phase I Number Based on Actual Design Cost Estimate and Amount charge by the COOP for Conduit and Trenching

\$ 45,876.00 \$ 367,975.00 \$ 177,921.74	\$ 591,772.74	\$ 60,800.00	\$ 57,000.00	3,800.00
Services, Meters, Service Labor, and Meter Labor: Primary & Secondary Facilities: Ozark Electric CO-OP facilities:	TOTAL	Street Lighting Expenses:	CO-OP Street Lighting Allowance (\$1,500/light):	Amount Due By Developer

### Appendix B First Revised

### Cost/Benefit Study if Territorial Agreement Approved

	YEAR	1	2	·	<b>~</b>		4	5		0	7	8	6	10	TOTAL
	ESTIMATED REVENUE	122,672.16		00.010.47.0	304,219.20	71 001 707	400,100.10	606,188.16	00 707 505	121,004.88	783,164.88	783,164.88	783,164.88	783,164.88	5682264.24
OGE SUBDIVISION	COST TO SERVE	\$ 625,412.74 \$	\$ 22,516.00 \$	\$ 844.00	\$ 376,460.00	\$ 9,520.00	\$ 455,080.00	\$ 22,400.00 \$	\$ 3,360.00	\$ 355,040.00	\$ 10,360.00 \$	\$ -	\$ -	\$	1880992.74
LAKES OF SHUYLER RIDGE SUBDIVISION	ESTIMATED GROWTH (# OF METERS ADDED)	08	08	3	. LL	34	46	08	12	89	3.7	-	-	_	517
	PHASE	I	I	Ι	П	II	III	III	III	VI	VI	-		ı	
	YEAR	1	2	C	c		<del>1</del>	5	,	o	7	8	6	10	TOTAL

Revenue/Cost =

3.02

### Assumptions:

Phase I	Phase II	Phase III	Phase VI
80 lots/year	2000 ft^2	1,500.00	
		∽	
Average Growth Rate:	Size of Homes:	Average Yearly Bill:	

lots

163 111 138 105 517

		LAKES OF SHUYLER RIDGE SUBDIVISION	DGE SUBDIVISION		
YEAR	PHASE	ESTIMATED GROWTH (# OF METERS ADDED)	COST TO SERVE	ESTIMATED REVENUE	YEAR
1	I		\$	-	1
2	I	80	\$ 298,319.68	\$ 121,336.08	2
6	I	3	\$ 840.00	6	,
3	II	77	\$ 376,460.00	\$ 242,883.12	3
~	П	34	\$ 9,520.00	000000000000000000000000000000000000000	
<b>†</b>	III	46	\$ 455,080.00	364,832.08	4
5	III	08	\$ 22,400.00	\$ 484,852.08	5
7	Ш	12	\$ 3,360.00		
O	IV	89	\$ 355,040.00	\$ 606,328.80	9
7	IV	37	\$ 10,360.00	\$ 661,828.80	7
8	-	1	1	\$ 661,828.80	8
6	ı	ı		\$ 661,828.80	6
10	-	ī	1	\$ 661,828.80	10
TOTAL		437	\$ 1,531,379.68	\$ 4,467,567.36	TOTAL

Revenue/Cost =

2.92

### Assumptions:

Phase I	Phase II	Phase III	Phase VI	
		80 lots/year	2000 ft^2	1,500.00
				<del>∽</del>
CO-OP Serves Year I	Annexation after Year I	Average Growth Rate:	Size of Homes:	Average Yearly Bill:

lots

163 111 138 105 517

		LAKES OF SHUYLER RIDGE SUBDIVISION	DGE SUBDIVISION		
YEAR	PHASE	ESTIMATED GROWTH (# OF METERS ADDED)	COST TO SERVE	ESTIMATED REVENUE	YEAR
1	I	ı	- -	<del>ده</del>	
2	I	•	<b>.</b>	·	2
r,	I	3	\$ 11,040.00	6	
C	П	77	\$ 376,460.00	\$ 120,070.32	m
_	II	34.	\$ 9,520.00		
++	III	46	\$ 455,080.00	\$ 241,617.36	4
5	III	08	\$ 22,400.00	\$ 361.617.36	5
7	III	12	\$ 3,360.00	6	
O	Ŋ	89	\$ 355,040.00	483,094.08	9
7	IV	37	\$ 10,360.00	\$ 538,594.08	7
∞	-	_	-	\$ 538,594.08	8
6		ı		\$ 538,594.08	6
10	I .	ı	-	\$ 538,594.08	10
TOTAL		357	\$ 1,243,260.00	\$ 3,360,775.44	TOTAL

Revenue/Cost =

2.70

### Assumptions:

lots			lots
163	111 138	105	517
Phase I	Phase II Phase III	Phase VI	
	80 lots/year	2000 ft^2	1,500.00
2			<del>69</del>
CO-OP Serves Year 1 & 2	Annexauton after 1 ear 2 Average Growth Rate:	Size of Homes:	Average Yearly Bill:

Γ	<u> </u>	1	T	Τ		T			Γ			Τ	Ţ		Τ	
	YEAR	-	7	7	3		4	5	,	9	7	8	6	10		TOTAL
	ESTIMATED REVENUE						122,461.20	242 461 20		363,937.92	419,437.92	419,437.92	419,437.92	419,437.92		2,406,612.00
		S	جئ ا	-	<b>6</b>	,	<u>~</u>	8	,	<u>~</u>	ક્ક	S	\$	\$		<del>\$9</del>
R SUBDIVISION	COST TO SERVE					118,620.00	455,080.00	22,400.00	3,360.00	355,040.00	10,360.00	-	J	1		964,860.00
LAKES OF SHUYLER RIDGE SUBDIVISION	H.	↔	69	89	S	€>	643	8	€>	<del>\$</del>	S		_			<del>69</del>
	ESTIMATED GROWTH (# OF METERS ADDED)		ľ			34	46	08	12	89	37	I.		1		277
	PHASE	I	I	I	II	П	Ш	III	Ш	IV	IV			f .		
	YEAR	1	2	~	C		r	5	<u>.</u>	D.	7	8	6	10		TOTAL

Revenue/Cost =

2.49

### Assumptions:

lots				lots
163	111	138	105	517
Phase I	Phase II	Phase III	Phase VI	
		80 lots/year	2000 ft^2	1,500.00
& 3				€9
CO-OP Serves Year 1, 2, & 3	Annexation after Year 3	Average Growth Rate:	Size of Homes:	Average Yearly Bill:

Revenue/Cost =

2.39

### Assumptions:

163	138	105	517
Phase I Phase II	Phase III	Phase VI	
	80 lots/year	2000 ft^2	1,500.00
CO-OP Serves Year I, 2, 3, & 4 Annexation after Year 4	Average Growth Rate:	Size of Homes:	Average Yearly Bill: \$

lots