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

FILED²

JAN 2 5 2007

Missouri Public Service Commission

Jefferson City, Missouri November 2006

e___Exhibit No. 7.04 200 Case No 2007-

1 2	Direct /Rebuttal Testimony for Martin Penning
3	Case Nos. EO-2007-0029 and EE-2007-0030
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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 electric
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.

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Q On whose behalf are you sponsoring testimony in this proceeding?

A. The Empire District Electric Company

- 30 O. 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.

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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?
7 4	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.

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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?
109	A. Yes.

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114	AFFIDAVIT
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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
122	of the preceding prepared testimony; that he has knowledge of the pretters set forth therein; and
123	that such matters are true and correct to the best of his knowledge and belief.)
124	
125	Martin & Jaf
125	(signature of witness)
120	(signature of Wintess)
127	Subscribed and sworn to before me this 20th day of November, 2006.
120	Subscribed and Sword to beinte ine this 20th day of redvender, 2000.
130	
130	(notary seal)
131	(notary scal)
132	(signature of notary)
125	(signature of hotary)
	Notary ** Taney Gounty
	Seal . Se
	March 9, 2007
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LAKES AT SHUYLER RIDGE

Development Phases	Primary & Secondary Electrical Facilities Expense	Service Electrical Facilities Expense	Lighting Electrical Facilities Expense	Total Electrical Facilities Expense	Number of Services	Normal Subdy. Rebate Amoust	Cost Difference (Élec. Facilities & Robate Amauni)	Generated Electricity Rovenue/Year	Generated Lighting Revenue/Year	Total Generated Revence/Year	Total Generated Revenue/S-Year	Difference biwn Elec. Facillies Expense & Generated Revenue/5-Year
Phase I	\$ 545,896.74	\$ 45,876.00	\$ \$7,000.00	\$ 648,772.74	163	\$ 436,677.00	\$ 109,219.74	<u>\$</u> 244,500.00	\$ 2,672.16	<u>\$</u> _247,172.16	\$ 1,235,860.80	
Phase II	\$ 321,900.00	\$ 31,080.00	\$ 33,000.00	<u>\$</u> 385,980.00	111	\$ 297,369.00	<u>\$</u> 24,531.00	\$ 166,500.00	\$ 1,547.04	5 168,047.04	\$ \$40,235.20	\$ (454,255.20)
Phase []]	\$ 400,200.00	\$ 38,640.00	<u>\$</u> 42,000.00	\$ 480,840,00	138	\$ 369,702.00	\$ 30,498.00	\$ 207,000.00	\$ 1,968.96	\$ 208,968.96	S 1,044,844.80	\$ (564,004.80)
Phase IV	\$ 304,500.00	\$ 29,400.00	\$ 31,500.00	\$ 365,400.00	105	\$ 281,295.00	\$ 23,205.00	\$ 157,500.00	\$ I,476.72	\$ 158,976.72	5 794,883.60	\$ (429,483.60)
TOTAL	\$ 1,572,496.74	\$ 144,996.00	\$ 163,500.00	<u>\$</u> 1,880,992.74	\$517.00	\$ 1,385,043.00	<u>\$ 187,453.74</u>	\$ 775,500.00	\$ 7,664.88	5 783,164.88	\$ 3,915,824.40	\$ (2,034,831.66)

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s	1,500.00	/year		
\$	2,679.00	/lot		
5	280.00	Лог		
\$	2,900.00	Лot		
1 6	ght / 5 lots		Phase I	38
5	1,500.00		Phase II	22
\$	100.00		Phase III	28
\$	70.32	/year	Phase V1	21
	5 5 5 1 II 5 5 5	\$ 2,679.00 \$ 280.00 \$ 2,900.00 L light / S lots \$ 1,500.00 \$ 100.00	\$ 2,679.00 /lot \$ 280.00 /lot \$ 2,900.00 /lot l light / \$ lots \$ 1,500.00 \$ 100.00	\$ 2,679.00 Aot \$ 280.00 Aot \$ 2,900.00 Aot I light / 5 lots Phase I \$ 1,500.00 Phase II \$ 100.00 Phase III

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

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

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		LAKES OF SHUYLER RI	IDGE SUBDIVISION			
YEAR	PHASE	ESTIMATED GROWTH (# OF METERS ADDED)	COST TO SERVE		ESTIMATED REVENUE	YEAR
1	I	80	\$ 625,412.74	\$	122,672.16	. 1
2	Ι	80	\$ 22,516.00	\$	242,672.16	2
3	I II	3	\$ 844.00 \$ 376,460.00	- \$	364,219.20	3
4	II III	34 46	\$ 9,520.00 \$ 455,080.00	- \$	486,188.16	4
5	III	80	\$ 22,400.00	S	606,188.16	5
6	III IV	<u>12</u> 68	\$ 3,360.00 \$ 355,040.00	- \$	727,664.88	6
7	IV	37	\$ 10,360.00	\$	783,164.88	7
8	_	-	-	\$	783,164.88	8
9	-	- .	-	\$	783,164.88	9
10		-	-	\$	783,164.88	10
TOTAL	· · · · · · · ·	517	1880992.74	+	5682264.24	TOTAL

Cost/Benefit Study if Territorial Agreement Approved

Revenue/Cost = 3.02

Assumptions:

Average Growth Rate:		80 lots/year	Phase I	163	lots
Size of Homes:		2000 ft^2	Phase II	111	
Average Yearly Bill:	\$	1,500.00	Phase III	138	
			Phase VI	105	
All numbers calculated ba	ased on curr	ent prices.		517	lots

YEAR	PHASE	LAKES OF SHUYLER R ESTIMATED GROWTH (# OF METERS	I.	UBDIVISION ST TO SERVE		ESTIMATED REVENUE	YEAR
	<u> </u>	ADDED)					
1	I	<u> </u>	\$		\$		1
2	<u> </u>	80	\$	29 <u>8,319.</u> 68	_\$	121,336.08	2
3	I	3	\$	840.00	c	242,883.12	2
3	II	. 77	\$	376,460.00	¢	242,003.12	
	II	34	\$	9,520.00	•	364,852.08	4
4	III	46	\$	455,080.00	¢	304,832.08	
5	III	80	\$	22,400.00	\$	484,852.08	5
	III	12	\$	3,360.00	¢	606,328.80	
6	IV	68	\$	355,040.00	3	000,328.80	6
7	IV	37	\$	10,360.00	\$	661,828.80	7
8		-		-	\$	661,828.80	8
9	-	~		-	\$	661,828.80	9
10				-	\$	661,828.80	10
TOTAL		437	<u>s</u>	1,531,379.68	\$	4,467,567.36	TOTAL

Cost/Benefit Study if Territorial Agreement "Not" Approved

Revenue/Cost = 2.92

Assumptions:

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

All numbers calculated based on current prices.

		LAKES OF SHUYLER R	IDGE SI	JBDIVISION			
YEAR	PHASE	ESTIMATED GROWTH (# OF METERS ADDED)	1	ST TO SERVE		ESTIMATED REVENUE	YEAR
1	I	~	\$		\$		1
2	I		\$	-	\$		2
	I	3	\$	11,040.00	e	120 070 22	2
3	II	77	\$	376,460.00	3	120,070.32	5
	II	34	\$	9,520.00	e	241,617.36	4
4	III	46	\$	455,080.00	3		
5	Ш	80	\$	22,400.00	\$	361,617.36	5
	III	12	\$	3,360.00	¢	492 004 09	
6	IV	68	\$	355,040.00	3	483,094.08	6
7	IV	37	\$	10,360.00	\$	538,594.08	7
8		-	1		\$	538,594.08	8
9	-	-		-	\$	538,594.08	9
10					\$	538,594.08	10
TOTAL		357	\$	1,243,260.00	\$	3,360,775.44	TOTAL

Cost/Benefit Study if Territorial Agreement "Not" Approved

Revenue/Cost = 2.70

Assumptions:

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

All numbers calculated based on current prices.

	· · · · · · · · · · · · · · · · · · ·	LAKES OF SHUYLER		UBDIVISION					
YEAR	PHASE	ESTIMATED GROWT (# OF METERS ADDED)	(# OF METERS COST TO SERVE		ESTIMATED REVENUE				YEAR
1	I	-	\$		\$		1		
2	<u> </u>		\$		\$				
2	I		\$						
	II	-	\$		\$	-	3		
4	II	34	\$	118,620.00			4		
+ 	III	46	\$	455,080.00	\$	122,461.20			
5	III	80	\$	22,400.00	s	242,461.20	<u>-</u> -		
6	III	12	\$	3,360.00		363,937.92			
	IV	68	\$	355,040.00	\$		6		
7	IV	37	\$	10,360.00	S	419,437.92	7		
8	<u> </u>	-		-	S	419,437.92			
9				-	S	419,437.92	0		
10	*			-	\$	419,437.92	10		
TOTAL		277	\$	964,860.00	s	2,406,612.00	TOTA		

Cost/Benefit Study if Territorial Agreement "Not" Approved

Revenue/Cost = 2.49

Assumptions:

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

All numbers calculated based on current prices.

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		LAKES OF SHUYLER R		UBDIVISION			
YEAR	PHASE	ESTIMATED GROWTE (# OF METERS ADDED)		COST TO SERVE		ESTIMATED REVENUE	
1	I		\$		\$		1
2	<u>I</u>	-	\$	-	\$		2
3	· I	-	\$	-		-	3
~ 	II		\$	<u> </u>	15		
4	II		\$	<u> </u>		_	
	III		\$		18		4
5	III	80	\$	281,400.00	\$	121,265.76	5
6	III	12	\$	3,360.00			
0	IV	68	\$	355,040.00	5	242,742.48	6
7	IV	37	\$	10,360.00	\$	298,242.48	7
8		-	1	-	\$	298,242.48	
9	-	-	1		\$	298,242.48	9
10	*				\$	298,242.48	10
TOTAL		197	<u> </u>	650,160.00	\$	1,556,978.16	TOTAL

Cost/Benefit Study if Territorial Agreement "Not" Approved

Revenue/Cost = 2.39

Assumptions:

CO-OP Serves Year 1, 2,	3, & 4		Phase I	163 16	ots
Annexation after Year 4			Phase II	111	
Average Growth Rate:		80 lots/year	Phase III	138	
Size of Homes:		2000 ft^2	Phase VI	105	
Average Yearly Bill:	\$	1,500.00		517 10	ots

All numbers calculated based on current prices.

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