Exhibit No.:Issue(s):Mains, Meters, and<br/>Service LinesWitness:Claire M. Eubanks, P.E.Sponsoring Party:MoPSC StaffType of Exhibit:Direct Testimony<br/>Case No.:Case No.:GR-2024-0106Date Testimony Prepared:August 1, 2024

# **MISSOURI PUBLIC SERVICE COMMISSION**

# **INDUSTRY ANALYSIS DIVISION**

# **ENGINEERING ANALYSIS DEPARTMENT**

## **DIRECT TESTIMONY**

#### OF

# CLAIRE M. EUBANKS, P.E.

LIBERTY UTILITIES (Midstates Natural Gas) CORP., d/b/a Liberty

# CASE NO. GR-2024-0106

Jefferson City, Missouri August 2024

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1		DIRECT TESTIMONY
2		OF
3		CLAIRE M. EUBANKS, P.E.
4		LIBERTY UTILITIES (Midstates Natural Gas) CORP.,
5		d/b/a Liberty
6		CASE NO. GR-2024-0106
7	Q.	Please state your name and business address.
8	А.	Claire M. Eubanks and my business address is Missouri Public Service
9	Commission,	P.O. Box 360, Jefferson City, Missouri, 65102.
10	Q.	By whom are you employed and in what capacity?
11	А.	I am employed by the Missouri Public Service Commission ("Commission") as
12	the Manager	of the Engineering Analysis Department, Industry Analysis Division.
13	Q.	Describe your educational and work background.
14	А.	Please see Schedule CME-d1.
15	Q.	Have you previously testified in proceedings before the Missouri Public
16	Service Com	nission?
17	А.	Yes. I have provided testimonies in multiple cases before the Missouri Public
18	Service Com	mission. Please see Schedule CME-d1.
10	EVECUTIV	E SUMMADY
19		
20	Q.	What is the purpose of your direct testimony?
21	А.	The purpose of my direct testimony is to sponsor Staff's proposed allocation of
22	certain distrib	oution costs for use in Staff's Class Cost of Service Study. Staff's Class Cost of
23	Service Study	v is sponsored by Staff witness, Michael L. Stahlman.

1	Q.	What are distribution syste	em costs?			
2	А.	The distribution system i	is the portion of the	utility's sys	tem that links	s the
3	transmission	system to customer's homes	s and businesses. Lib	erty Utilities	(Midstates Na	tural
4	Gas) Corp.,	d/b/a Liberty ("Liberty Mic	lstates") distribution	system inclu	des mains, sei	rvice
5	lines, regula	tors, and meters.				
6	Q.	What distributions cost	classifiers and allo	ocators are s	ponsored three	ough
7	your testimo	ny?				
8	А.	I address the classification	n of distribution main	s and allocati	on of service	lines
9	and meters.					
10	Q.	What portion of the costs	associated with distr	ibution mains	, service lines	, and
11	meters shou	ld be classified as customer-	related versus deman	d-related for	Liberty Midst	tates,
12	and how sho	ould these costs be allocated a	mong different custo	mer classes?		
13	А.	Staff's position is that the	he classification and	allocation of	of costs shoul	d be
14	as follows:					
15				1 2		
			WEMO <sup>1</sup> /NEMO <sup>2</sup>	SEMO <sup>3</sup>	Total	
	(	Customer portion of mains:	54%	62%	57%	
16				I		
	<sup>1</sup> Western Miss	souri district ("WEMO")				
	<sup>2</sup> Northeastern	Missouri district ("NEMO")				

<sup>&</sup>lt;sup>3</sup> Southeastern Missouri district ("SEMO")

1

Total	Total	Residential	Small	Medium	Large	Special	Interruptible
Company			General	General	General	Contract	
			Service	Service	Service		
Meters	100.00%	80.83%	11.82%	6.62%	0.60%	0.07%	0.07%
Services	100.00%	62.40%	8.50%	26.90%	1.80%	0.30%	0.10%

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WEMO/NEMO	Total	Residential	Small	Medium	Large	Special	Interruptible
			General	General	General	Contract	
			Service	Service	Service		
Meters	100.00%	81.19%	12.54%	5.54%	0.55%	0.15%	0.02%
Services	100.00%	65.20%	9.10%	22.70%	2.40%	0.50%	0.10%

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SEMO	Total	Residential	Small	Medium	Large	Special	Interruptible
			General	General	General	Contract	_
			Service	Service	Service		
Meters	100.00%	79.71%	11.45%	8.44%	0.37%	0.00%	0.02%
Services	100.00%	58.76%	7.96%	31.81%	1.17%	0.10%	0.20%

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# **CLASSIFICATION OF MAINS**

Q.

How did Staff classify distribution mains?

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A. Distribution mains are designed to provide customers access to the natural gas system and also to meet peak demand requirements. Staff classified distribution mains into customer and demand based on two methods. The minimum system method and the zero-intercept method.

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Q. What is the minimum system method?

A. The minimum system method as applied to gas distribution mains involves
 determining the cost of a theoretical system constructed only of the minimum size main.
 This theory assumes there is a minimum size main necessary to connect a customer to the
 system.<sup>4</sup> A ratio of the cost of the theoretical minimum system to the actual total main system
 represents the customer portion.

6

7

Q. What is the zero-inch or zero-intercept method as applied to the classification of gas distribution mains?

- A. The zero-inch or zero-intercept method as applied to gas distribution mains is a
  regression analysis that examines the relationship between main sizes and average cost.
  The zero-intercept method uses regressions to extend a curve representing the relationship
  between main sizes and average cost through the intercept simulating a zero-sized main.
  The regression analysis produces an intercept that represents a distribution main that serves no
  demand (i.e., classified as customer).
  - Q. What data and information did Staff use to perform these analyses?

A. Staff utilized the Company's continuing property records ("CPR") for the distribution mains (FERC accounts 376, 376.2, and 376.3) to determine the average cost of mains by diameter and material and the corresponding footage installed.<sup>5</sup> The Company's CPR differentiates between plant installed in the historic rate districts. Staff's analysis is presented as total company and as WEMO/NEMO combined with SEMO separate.

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14

Q. What minimum-size main did Staff select to determine the theoretical minimum system cost for the minimum system method?

<sup>&</sup>lt;sup>4</sup> NARUC Gas Distribution Rate Design Manual, NARUC Staff Subcommittee on Gas, June 1989.

<sup>&</sup>lt;sup>5</sup> For purposes of this case, to minimize differences between Staff and the Company, Staff adjusted historical costs to reflect 2023 costs using the Handy-Whitman index.

A. Liberty Midstate's system, according to its property records, includes iron, steel and plastic mains of various diameters from <sup>3</sup>/<sub>4</sub>" to 24". In the past 10-years plastic has been the predominately installed material. For mains less than 2", the Company's retirement units for mains include ranges of mains sizes, for example less than 1" or less than 2". Therefore, Staff calculated the cost of mains less than or equal to 2" to determine the unit cost of the minimum-size main. This unit cost was multiplied by the total footage installed to determine a theoretical minimum system cost.

8

Q. Please present the results of the minimum system method.

9 A. The customer-portion of the mains account using the minimum method is
10 presented in the table below:

	WEMO/NEMO	SEMO	Total
Min system	78%	71%	72%

11 12

Q. Please present the results of the zero-intercept method.

A. The customer-portion of the mains account using the zero-intercept method is
presented in the table below. Schedule CME-d2 contains additional details regarding the
regression analysis.

16

	WEMO/NEMO	SEMO	Total
Plastic - Footage	1,236,445	1,947,975	3,184,420
Plastic - Cost/Unit	\$ 8.16	\$ 4.30	\$ 6.93
	\$ 10,092,351.42	\$ 8,378,429.78	\$ 22,061,914.98
Steel - Footage	2,359,640	3,420,303	5,779,943
Steel - Cost/Unit	\$ 8.34	\$ 14.58	\$ 11.59
	\$ 19,673,786.13	\$ 49,882,615.95	\$ 66,978,160.24
Zero-Intercept System Costs	\$ 29,766,137.55	\$ 58,261,045.73	\$ 89,040,075.23
Total Cost	\$ 100,763,454.16	\$ 109,639,282.56	\$ 210,402,736.72
Zero intercept	30%	53%	42%

17

What is Staff's recommendation regarding the classification of distribution 1 Q. 2 system mains?

3 A. Staff recommends classifying distribution mains as 57% customer related 4 (Total Company), 62% customer related (SEMO), and 54% customer related (WEMO and 5 NEMO) which is an average of the results using the two methods discussed above.

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		WEMO/NEMO	SEMO	Total
	Zero intercept	30%	53%	42%
	Min system	78%	71%	72%
7	Average	54%	62%	57%

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## **ALLOCATION OF SERVICE LINES AND METERS**

Q. What data and information did Staff use to allocate service lines to the customer classes?

A. Staff utilized the Company's CPR for the Services account (FERC account 380), 2022 year-end meter counts, and the service line diameter associated with each meter type provided by the Company in its workpapers.<sup>6</sup> Staff's analysis is presented as total company 14 and as WEMO/NEMO combined with SEMO separate.

15

Q. Describe the method Staff used to develop the service line allocator.

Liberty Midstate's service lines, according to its property records, range in size 16 A. 17 from <sup>3</sup>/<sub>4</sub>" to 6". Staff calculated the historic cost of installing service lines by meter count. 18 For example, if the CPR indicates there is \$50,000 in 2" service lines and there are 400 meters 19 that utilize a 2" service line the cost would be \$125 per meter. Using the actual year-end 2022

<sup>6</sup> WP (Allocators) – Meters and Services

meter counts by rate class, Staff calculated the cost of service lines for each class and developed
 the allocation factor as a percent contribution to the total cost.

3 Q. What data and information did Staff use to allocate meters to the 4 customer classes?

A. Staff utilized the Company's CPR for the Meters account (FERC account 381)
and 2022 year-end meter count provided by the Company in response to Staff Data
Request 0302.1. Staff's analysis is presented as total company and as WEMO/NEMO
combined with SEMO separate.

9

Q.

Describe the method Staff used to develop the meter allocator.

A. Staff calculated the unit cost of meters by meter classification using the data contained in the Company's CPR.<sup>7</sup> Similar to the service line allocator, Staff used the actual year-end 2022 meter counts by rate class to develop the allocation factor as a percent contribution to the total cost. Where costs were not identified by meter classification or service type in the Company's CPR Staff allocated these costs based on meter counts.

15 Staff's recommended meter and service allocation factors by rate class are presented below:

16

Total	Total	Residential	Small	Medium	Large	Special	Interruptible
Company			General	General	General	Contract	_
			Service	Service	Service		
Meters	100.00%	80.83%	11.82%	6.62%	0.60%	0.07%	0.07%
Services	100.00%	62.40%	8.50%	26.90%	1.80%	0.30%	0.10%
1							

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<sup>&</sup>lt;sup>7</sup> Company response to DR 0337 provided the meter codes as used in response to DR 0302.1 and the meter classification as used in the company's CPR.

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WEMO/NEMO	Total	Residential	Small	Medium	Large	Special	Interruptible
			General	General	General	Contract	_
			Service	Service	Service		
Meters	100.00%	81.19%	12.54%	5.54%	0.55%	0.15%	0.02%
Services	100.00%	65.20%	9.10%	22.70%	2.40%	0.50%	0.10%

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SEMO	Total	Residential	Small	Medium	Large	Special	Interruptible
			General	General	General	Contract	
			Service	Service	Service		
Meters	100.00%	79.71%	11.45%	8.44%	0.37%	0.00%	0.02%
Services	100.00%	58.76%	7.96%	31.81%	1.17%	0.10%	0.20%

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- Q. Does this conclude your direct testimony?
- A. Yes it does.

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

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

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In the Matter of the Request of Liberty Utilities (Midstates Natural Gas) Corp. d/b/a Liberty to Implement a General Rate Increase for Natural Gas Service in the Missouri Service Areas of the Company

Case No. GR-2024-0106

#### AFFIDAVIT OF CLAIRE M. EUBANKS, PE

SS.

STATE OF MISSOURI	)
	)
COUNTY OF COLE	)

**COMES NOW CLAIRE M. EUBANKS, PE,** and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing *Direct Testimony of Claire M. Eubanks, PE*; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

hie m Erbanco-

#### JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this  $2b^{m}$  day of July 2024.

DIANNA L. VAUGHT Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: July 18, 2027 Commission Number: 15207377

Dianne L. Vaurt Notary Public

### CLAIRE M. EUBANKS, PE

#### **PRESENT POSITION:**

I am the Manager of the Engineering Analysis Department, Industry Analysis Division of the Missouri Public Service Commission.

### EDUCATIONAL BACKGROUND AND WORK EXPERIENCE:

I received my Bachelor of Science degree in Environmental Engineering from the University of Missouri – Rolla, now Missouri University of Science and Technology, in May 2006. I am a licensed professional engineer in the states of Missouri and Arkansas. Immediately after graduating from UMR, I began my career with Aquaterra Environmental Solutions, Inc., now SCS Aquaterra, an engineering consulting firm based in Overland Park, Kansas. During my time with Aquaterra, I worked on various engineering projects related to the design, construction oversight, and environmental compliance of solid waste landfills. I began my employment with the Commission in November 2012 and was promoted to my current position in April 2020.

Currently, I am the co-chair of the NARUC Staff subcommittee on Electric Reliability & Resilience.

Case Number	Utility	Туре	Issue	
EA-2012-0281	Ameren	Rebuttal	Certificate of Convenience and Necessity	
EC-2013-0379 EC-2013-0380	KCP&L KCP&L GMO	Rebuttal	RES Compliance	
EO-2013-0458	Empire	Memorandum	RES Compliance Plan & Report	
EO-2013-0462	Ameren	Memorandum	RES Compliance Report	
EO-2013-0503	Ameren	Memorandum	RES Compliance Plan	
EO-2013-0504	KCPL	Memorandum	RES Compliance Plan & Report	
EO-2013-0505	GMO	Memorandum	RES Compliance Plan & Report	
ET-2014-0059	KCP&L GMO	Rebuttal	RES Retail Rate Impact	
ET-2014-0071	KCP&L	Rebuttal	RES Retail Rate Impact	
ET-2014-0085	Ameren	Rebuttal	RES Retail Rate Impact	
ER-2014-0258	Ameren	Cost of Service Report, Surrebuttal	RES, In-Service	

# **CASE HISTORY:**

Case Number	Utility	Туре	Issue	
EO-2014-0151	KCP&L GMO	Memorandum	RESRAM	
EO-2014-0357	Electric	Memorandum	Solar Rebates Payments	
EO-2014-0287	KCPL	Memorandum	RES Compliance Plan	
EO-2014-0288	GMO	Memorandum	RES Compliance Plan	
EO-2014-0289	KCPL	Memorandum	RES Compliance Report	
EO-2014-0290	GMO	Memorandum	RES Compliance Plan	
ER-2014-0370	KCP&L	Cost of Service Report	RES	
EX-2014-0352	N/A	Live Comments	RES rulemaking	
EC-2015-0155	GMO	Memorandum	Solar Rebate Complaint	
EO-2015-0260	Empire	Memorandum	RES Compliance Plan & Report	
EO-2015-0263	KCPL	Memorandum	<b>RES</b> Compliance Report	
EO-2015-0264	GMO	Memorandum	RES Compliance Report	
EO-2015-0265	KCPL	Memorandum	RES Compliance Plan	
EO-2015-0266	GMO	Memorandum	RES Compliance Plan	
EO-2015-0267	Ameren	Memorandum	RES Compliance Plan & Report	
EO-2015-0252	GMO	Staff Report	Integrated Resource Plan – Renewable Energy Standard	
EO-2015-0254	KCPL	Staff Report	Integrated Resource Plan – Renewable Energy Standard	
EA-2015-0256	KCP&L GMO	Live Testimony	Greenwood Solar CCN	
EO-2015-0279	Empire	Memorandum	RES Compliance Plan & Report	
ET-2016-0185	KCP&L	Memorandum	Solar Rebate Tariff Suspension	
EO-2016-0280	KCPL	Memorandum	RES Compliance Report	
EO-2016-0281	GMO	Memorandum	RES Compliance Report	
EO-2016-0282	KCPL	Memorandum	RES Compliance Plan	
EO-2016-0283	GMO	Memorandum	RES Compliance Plan	
EO-2016-0284	Ameren	Memorandum	RES Compliance Plan & Report	
ER-2016-0023	Empire	Report	RES	
ER-2016-0156	KCP&L GMO	Rebuttal	RESRAM Prudence Review	

Case Number	Utility	Туре	Issue	
EA-2016-0208	Ameren	Rebuttal	Certificate of Convenience and Necessity	
ER-2016-0285	KCPL	Cost of Service Report	In-Service, Greenwood Solar	
ER-2016-0179	Ameren	Rebuttal	In-Service, Labadie Landfill	
EW-2017-0245	Electric	Report	Working Case on Emerging Issues in Utility Regulation	
EO-2017-0268	Ameren	Memorandum	RES Compliance Plan & Report	
EO-2017-0269	KCPL	Memorandum	RES Compliance Report	
EO-2017-0271	KCPL	Memorandum	RES Compliance Plan	
GR-2017-0215 & GR-2017-0216	Spire	Rebuttal & Surrebuttal	CHP for Critical Infrastructure	
GR-2018-0013	Liberty Utilities (Midstates Natural Gas)	Rebuttal	CHP Outreach Initiative for Critical Infrastructure Resiliency	
EO-2018-0287	Ameren	Memorandum	RES Compliance Plan & Report	
EO-2018-0288	KCPL	Memorandum	RES Compliance Report	
EO-2018-0290	KCPL	Memorandum	RES Compliance Plan	
EA-2016-0207	Ameren	Memorandum	Certificate of Convenience and Necessity	
ER-2018-0146	GMO	Cost of Service Report	RESRAM Prudence Review	
ER-2018-0145 ER-2018-0146	KCPL GMO	Class Cost of Service Report, Rebuttal	Solar Subscription Pilot Rider, Standby Service Rider	
EA-2018-0202	Ameren	Staff Report	Certificate of Convenience and Necessity	
EE-2019-0076	Ameren	Memorandum	Variance Request – Reliability Reporting	
EA-2019-0021	Ameren	Staff Report	Certificate of Convenience and Necessity	
EA-2019-0010	Empire	Staff Report	Certificate of Convenience and Necessity	
EX-2019-0050	N/A	Live Comments	Renewable Energy Standard	

Case Number	Utility	Туре	Issue	
EO-2019-0315	KCPL	Memorandum in Response to Commission Questions	Renewable Energy Standard	
EO-2019-0316	GMO	Memorandum	Renewable Energy Standard	
EO-2019-0317	KCPL	Memorandum in Response to Commission Questions	Renewable Energy Standard	
EO-2019-0318	GMO	Memorandum	Renewable Energy Standard	
ER-2019-0335	Ameren	Cost of Service Report	Renewable Energy Standard, In- Service Criteria	
EA-2019-0371	Ameren	Staff Report	Certificate of Convenience and Necessity	
EO-2020-0329	Evergy Missouri Metro	Memorandum	Renewable Energy Standard	
EO-2020-0330	Evergy Missouri West	Memorandum	Renewable Energy Standard	
EE-2021-0237	Evergy Missouri Metro	Memorandum	Cogeneration Tariff	
EE-2021-0238	Evergy Missouri West	Memorandum	Cogeneration Tariff	
EE-2021-0180	Ameren Missouri	Memorandum	Electric Meter Variance	
ET-2021-0151 and 0269	Evergy	Memorandum, Rebuttal Report	Transportation Electrification	
AO-2021-0264	Various	Staff Report	February 2021 Cold Weather Event	
EW-2021-0104	n/a	Staff Report	RTO Membership	
EW-2021-0077	n/a	Staff Report	FERC Order 2222	
EO-2021-0339	Evergy Missouri West	Memorandum	Territorial Agreement	
GR-2021-0108	Spire	Rebuttal	Automated Meter Reading Opt-out Tariff	
EA-2021-0087	ATXI	Rebuttal Report	Certificate of Convenience and Necessity	

Case Number	Utility	Туре	Issue	
ER-2021-0240	Ameren Missouri	Cost of Service Report Rebuttal	In-Service Bat Mitigation	
ER-2021-0312	Empire	Cost of Service Report	Construction Audit – Engineering Review, In-service	
EO-2022-0061	Evergy Missouri West	Surrebuttal	Special Rate/ Renewable Energy Standard	
EA-2022-0099	ATXI	Rebuttal	Certificate of Convenience and Necessity	
EA-2022-0234	NextEra Energy Transmission	Rebuttal	Certificate of Convenience and Necessity	
ER-2022-0129	Evergy Missouri West	Direct Rebuttal	Advanced Metering Infrastructure, Reliability, Transmission & Distribution Investment, PISA reporting, Misc. Tariff issues	
ER-2022-0130	Evergy Missouri Metro	Direct Rebuttal Surrebuttal/True-Up	Advanced Metering Infrastructure, Reliability, Transmission & Distribution Investment, PISA reporting, Misc. Tariff issues	
EE-2022-0329	Ameren Missouri	Memorandum	Variance Request	
GR-2022-0179	Spire Missouri	Direct Rebuttal	Metering Infrastructure	
ER-2022-0337	Ameren Missouri	Direct Rebuttal Surrebuttal/True-Up	Rush Island, Smart Energy Plan, High Prairie	
EA-2023-0017	Grain Belt	Rebuttal	Certificate of Convenience and Necessity	
ET-2023-0250	Empire	Memorandum	Cogeneration/ Net Metering Tariff	
. GE-2023-0196	Empire District Gas Company	Memorandum	Variance Request	
EO-2023-0423 EO-2023-0424	Evergy	Memorandum	Solar Subscription Program	
EC-2024-0108	Ameren Missouri	Staff Report	Complaint	
EA-2024-0147	ATXI	Memorandum	Certificate of Convenience and Necessity	
EO-2024-0231	Ameren Missouri	Memorandum	Renewable Energy Standard	

Case Number	Utility	Туре	Issue
EF-2024-0021	Ameren Missouri	Rebuttal Surrebuttal	Securitization
ER-2024-0189	Evergy Missouri West	Direct	In-service



Plastic - WEMO/NEMO				
X-Variable	0.3503	2.10	Intercept	\$ 8.16
X-Variable SE	0.12	0.57	Intercept SE	
R-Square	66.83%	0.72	Model SE	
F	8.06	4	df	
SumSq (reg)	4	2	SumSq (resid)	
X-variable t-stat	2.84	3.66	Intercept t-stat	
Plastic - SEMO				
X-Variable	0.4267	1.46	Intercept	\$ 4.30
X-Variable SE	0.07	0.25	Intercept SE	
R-Square	92.65%	0.27	Model SE	
F	37.83	3	df	
SumSq (reg)	3	0	SumSq (resid)	
X-variable t-stat	6.15	5.79	Intercept t-stat	
Plastic - Total Company				
X-Variable	0.3560	1.94	Intercept	\$ 6.93
X-Variable SE	0.08	0.38	Intercept SE	
R-Square	82.92%	0.47	Model SE	
F	19.42	4	df	
SumSq (reg)	4	1	SumSq (resid)	
X-variable t-stat	4.41	5.15	Intercept t-stat	



Steel - WEMO/NEMO				
X-Variable	0.2772	2.12	Intercept	\$ 8.34
X-Variable SE	0.03	0.14	Intercept SE	
R-Square	97.30%	0.13	Model SE	
F	107.92	3	df	
SumSq (reg)	2	0	SumSq (resid)	
X-variable t-stat	10.39	15.65	Intercept t-stat	
Steel - SEMO				
X-Variable	0.2482	2.68	Intercept	\$ 14.58
X-Variable SE	0.02	0.13	Intercept SE	
R-Square	97.64%	0.16	Model SE	
F	165.41	4	df	
SumSq (reg)	4	0	SumSq (resid)	
X-variable t-stat	12.86	20.58	Intercept t-stat	
Steel - Total Company				
X-Variable	0.2458	2.45	Intercept	\$ 11.59
X-Variable SE	0.04	0.20	Intercept SE	
R-Square	93.15%	0.19	Model SE	
F	40.79	3	df	
SumSq (reg)	1	0	SumSq (resid)	
X-variable t-stat	6.39	12.53	Intercept t-stat	