

RULE 20:10:13:98
STATEMENT O WORKPAPER - Tab RD-4 (MTR)
Metering Rate Design
Test Year Ending December 31, 2013
Utility: MidAmerican Energy Company
Docket No. NG14-XXX

Individual Responsible: Charles Rea

Metering Rate Design
Final Model

Current Meter Installed Costs

Line	Meter Size (a)	Installed Cost (b)
1	175	\$ 231
2	200	\$ 231
3	250	\$ 231
4	275	\$ 231
5	400	\$ 629
6	425	\$ 629
7	630	\$ 629
8	675	\$ 629
9	800	\$ 629
10	1,000	\$ 1,171
11	1,100	\$ 1,171
12	1,500	\$ 1,171
13	2,000	\$ 1,171
14	3,000	\$ 3,797
15	4,000	\$ 3,797
16	5,000	\$ 4,954
17	7,000	\$ 5,276
18	11,000	\$ 6,916
19	15,000	\$ 6,916
20	16,000	\$ 7,608
21	18,000	\$ 7,608
22	23,000	\$ 9,124
23	30,000	\$ 9,124
24	38,000	\$ 10,676
25	60,000	\$ 10,676

Lines 1-25 come from Company Books and Records

Metering Billing Units and Total Current Installed Cost

Line	Rate	Class	Size	Class	Group	Number of Customers	Unit Cost	Installed Cost	LSS Out	SSS Out	SVI Out	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
26	LSS	115	23000	3	4	13.0	\$ 9,124.00	\$ 118,612	-13			0.0
27	LT	520	7000	3	3	24.0	\$ 5,276.00	\$ 126,624				24.0
28	LT	520	11000	3	3	96.0	\$ 6,916.00	\$ 663,936				96.0
29	LT	520	16000	3	4	36.0	\$ 7,608.00	\$ 273,888				36.0
30	LT	520	23000	3	4	36.0	\$ 9,124.00	\$ 328,464				36.0

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31	LT	520	30000	3	4	12.0	\$	9,124.00	\$	109,488		12.0
32	LT	520	60000	3	4	24.0	\$	10,676.00	\$	256,224		24.0
33	LVI	510	11000	3	3	0.0	\$	6,916.00	\$	-	24	24.0
34	LVI	510	16000	3	4	0.0	\$	7,608.00	\$	-	9	9.0
35	LVI	510	23000	3	4	13.5	\$	9,124.00	\$	123,046	13	38.5
36	LVI	510	30000	3	4	0.0	\$	9,124.00	\$	-	12	12.0
37	MT	320	800	2	2	24.0	\$	628.69	\$	15,089		24.0
38	MT	320	1000	2	2	49.0	\$	1,170.90	\$	57,374		49.0
39	MT	320	1200	2	2	23.0	\$	1,170.90	\$	26,931		23.0
40	MT	320	1400	2	2	84.0	\$	1,170.90	\$	98,356		84.0
41	MT	320	2300	2	2	36.0	\$	1,170.90	\$	42,152		36.0
42	MT	320	3000	2	2	252.0	\$	3,797.00	\$	956,844		252.0
43	MT	320	5000	2	3	240.0	\$	4,954.00	\$	1,188,960		240.0
44	MT	320	7000	2	3	332.0	\$	5,276.00	\$	1,751,632		332.0
45	MT	320	11000	2	3	184.0	\$	6,916.00	\$	1,272,544		184.0
46	MT	320	16000	2	4	48.0	\$	7,608.00	\$	365,184		48.0
47	MT	320	23000	2	4	12.0	\$	9,124.00	\$	109,488		12.0
48	MT	320	38000	2	4	12.0	\$	10,676.00	\$	128,112		12.0
49	MTM	963	416	2	1	10.0	\$	628.69	\$	6,287		10.0
50	MTM	963	425	2	1	38.0	\$	628.69	\$	23,890		38.0
51	MTM	963	630	2	1	43.0	\$	628.69	\$	27,034		43.0
52	MTM	963	675	2	1	12.0	\$	628.69	\$	7,544		12.0
53	MTM	963	750	2	2	7.0	\$	628.69	\$	4,401		7.0
54	MTM	963	800	2	2	21.0	\$	628.69	\$	13,202		21.0
55	MTM	963	1000	2	2	114.0	\$	1,170.90	\$	133,483		114.0
56	MTM	963	1200	2	2	12.0	\$	1,170.90	\$	14,051		12.0
57	MTM	963	1400	2	2	25.0	\$	1,170.90	\$	29,273		25.0
58	MTM	963	1500	2	2	12.0	\$	1,170.90	\$	14,051		12.0
59	MTM	963	2300	2	2	8.0	\$	1,170.90	\$	9,367		8.0
60	MTM	963	3000	2	2	146.8	\$	3,797.00	\$	557,400		146.8
61	MTM	963	5000	2	3	176.2	\$	4,954.00	\$	873,058		176.2
62	MTM	963	7000	2	3	98.4	\$	5,276.00	\$	519,158		98.4
63	MTM	963	11000	2	3	36.0	\$	6,916.00	\$	248,976		36.0
64	MTM	963	16000	2	4	18.0	\$	7,608.00	\$	136,944		18.0
65	MVF	309	200	2	1	12.0	\$	230.64	\$	2,768		12.0
66	MVF	309	250	2	1	29.3	\$	230.64	\$	6,765		29.3
67	MVF	310	275	2	1	0.0	\$	230.64	\$	-		0.0
68	MVF	309	400	2	1	15.0	\$	628.69	\$	9,430		15.0
69	MVF	309	415	2	1	12.0	\$	628.69	\$	7,544		12.0
70	MVF	309	416	2	1	10.0	\$	628.69	\$	6,287		10.0
71	MVF	309	425	2	1	801.8	\$	628.69	\$	504,084		801.8
72	MVF	309	630	2	1	607.4	\$	628.69	\$	381,866		607.4
73	MVF	309	675	2	1	73.0	\$	628.69	\$	45,894		73.0
74	MVF	309	750	2	2	826.6	\$	628.69	\$	519,654		826.6
75	MVF	309	800	2	2	1119.7	\$	628.69	\$	703,944		1119.7
76	MVF	309	998	2	2	7.0	\$	628.69	\$	4,401		7.0

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77	MVF	309	1000	2	2	2448.9	\$	1,170.90	\$	2,867,380		2448.9
78	MVF	309	1200	2	2	70.6	\$	1,170.90	\$	82,666		70.6
79	MVF	309	1400	2	2	613.6	\$	1,170.90	\$	718,503		613.6
80	MVF	309	1500	2	2	36.1	\$	1,170.90	\$	42,269		36.1
81	MVF	309	2000	2	2	13.0	\$	1,170.90	\$	15,222		13.0
82	MVF	309	2250	2	2	12.0	\$	1,170.90	\$	14,051		12.0
83	MVF	309	2300	2	2	120.0	\$	1,170.90	\$	140,508		120.0
84	MVF	309	3000	2	2	2392.0	\$	3,797.00	\$	9,082,416		2392.0
85	MVF	309	4800	2	3	12.0	\$	3,797.00	\$	45,564		12.0
86	MVF	309	5000	2	3	1313.2	\$	4,954.00	\$	6,505,593	27	1340.2
87	MVF	309	7000	2	3	617.7	\$	5,276.00	\$	3,258,811	21	638.7
88	MVF	309	11000	2	3	244.9	\$	6,916.00	\$	1,693,728	11	279.9
89	MVF	309	16000	2	4	119.9	\$	7,608.00	\$	911,941	10	129.9
90	MVF	309	23000	2	4	23.0	\$	9,124.00	\$	209,852		23.0
91	SSS	114	425	1	1	15.0	\$	628.69	\$	9,430	-15	0.0
92	SSS	114	630	1	1	47.0	\$	628.69	\$	29,548	-47	0.0
93	SSS	114	750	1	2	1.0	\$	628.69	\$	629	-1	0.0
94	SSS	114	800	1	2	16.0	\$	628.69	\$	10,059	-16	0.0
95	SSS	114	1000	1	2	100.0	\$	1,170.90	\$	117,090	-100	0.0
96	SSS	114	3000	1	2	45.0	\$	3,797.00	\$	170,865	-45	0.0
97	SSS	114	5000	1	3	20.0	\$	4,954.00	\$	99,080	-20	0.0
98	SSS	114	7000	1	3	36.1	\$	5,276.00	\$	190,289	-36	0.0
99	SSS	114	11000	1	3	15.9	\$	6,916.00	\$	109,964	-16	0.0
100	SSS	114	16000	1	4	19.0	\$	7,608.00	\$	144,552	-19	0.0
101	ST	321	800	1	2	12.0	\$	628.69	\$	7,544		12.0
102	ST	321	1000	1	2	12.0	\$	1,170.90	\$	14,051		12.0
103	ST	321	3000	1	2	12.0	\$	3,797.00	\$	45,564		12.0
104	STM	962	175	1	1	28.9	\$	230.64	\$	6,658		28.9
105	STM	962	250	1	1	300.0	\$	230.64	\$	69,192		300.0
106	STM	962	275	1	1	24.0	\$	230.64	\$	5,535		24.0
107	STM	962	425	1	1	268.6	\$	628.69	\$	168,866		268.6
108	STM	962	630	1	1	72.0	\$	628.69	\$	45,266		72.0
109	STM	962	675	1	1	12.0	\$	628.69	\$	7,544		12.0
110	STM	962	750	1	2	36.0	\$	628.69	\$	22,633		36.0
111	STM	962	800	1	2	47.9	\$	628.69	\$	30,114		47.9
112	STM	962	1000	1	2	28.0	\$	1,170.90	\$	32,785		28.0
113	STM	962	3000	1	2	23.0	\$	3,797.00	\$	87,331		23.0
114	STM	962	5000	1	3	9.0	\$	4,954.00	\$	44,586		9.0
115	SVF	105	175	1	1	181840.3	\$	230.64	\$	41,939,648		181840.3
116	SVF	109	175	1	1	7160.0	\$	230.64	\$	1,651,376		7160.0
117	SVF	105	200	1	1	5253.7	\$	230.64	\$	1,211,712		5253.7
118	SVF	109	200	1	1	351.1	\$	230.64	\$	80,978		351.1
119	SVF	105	225	1	1	22037.7	\$	230.64	\$	5,082,782		22037.7
120	SVF	109	225	1	1	883.3	\$	230.64	\$	203,732		883.3
121	SVF	105	240	1	1	6263.4	\$	230.64	\$	1,444,591		6263.4
122	SVF	109	240	1	1	444.0	\$	230.64	\$	102,397		444.0

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123	SVF	105	250	1	1	656759.2	\$	230.64	\$	151,474,947			656759.2
124	SVF	109	250	1	1	44098.5	\$	230.64	\$	10,170,888			44098.5
125	SVF	105	275	1	1	62813.4	\$	230.64	\$	14,487,278			62813.4
126	SVF	109	275	1	1	4195.8	\$	230.64	\$	967,719			4195.8
127	SVF	105	305	1	1	12.0	\$	230.64	\$	2,768			12.0
128	SVF	109	305	1	1	7.7	\$	230.64	\$	1,784			7.7
129	SVF	105	310	1	1	24.0	\$	230.64	\$	5,535			24.0
130	SVF	109	310	1	1	12.0	\$	230.64	\$	2,768			12.0
131	SVF	105	340	1	1	8.0	\$	230.64	\$	1,845			8.0
132	SVF	105	350	1	1	5.0	\$	230.64	\$	1,153			5.0
133	SVF	105	400	1	1	343.7	\$	628.69	\$	216,101			343.7
134	SVF	109	400	1	1	1453.1	\$	628.69	\$	913,570			1453.1
135	SVF	109	401	1	1	12.0	\$	628.69	\$	7,544			12.0
136	SVF	105	402	1	1	10.5	\$	628.69	\$	6,580			10.5
137	SVF	109	402	1	1	8.5	\$	628.69	\$	5,323			8.5
138	SVF	105	415	1	1	144.0	\$	628.69	\$	90,531			144.0
139	SVF	109	415	1	1	337.3	\$	628.69	\$	212,058			337.3
140	SVF	105	416	1	1	418.1	\$	628.69	\$	262,836			418.1
141	SVF	109	416	1	1	345.9	\$	628.69	\$	217,485			345.9
142	SVF	105	425	1	1	5255.1	\$	628.69	\$	3,303,806	15		5270.1
143	SVF	109	425	1	1	21643.2	\$	628.69	\$	13,606,841			21643.2
144	SVF	105	630	1	1	643.5	\$	628.69	\$	404,541	47		690.5
145	SVF	109	630	1	1	5264.6	\$	628.69	\$	3,309,803			5264.6
146	SVF	105	675	1	1	96.0	\$	628.69	\$	60,354			96.0
147	SVF	109	675	1	1	891.7	\$	628.69	\$	560,581			891.7
148	SVF	105	750	1	2	59.9	\$	628.69	\$	37,659	1		60.9
149	SVF	109	750	1	2	1395.5	\$	628.69	\$	877,358			1395.5
150	SVF	105	800	1	2	49.0	\$	628.69	\$	30,806	16		65.0
151	SVF	109	800	1	2	2919.0	\$	628.69	\$	1,835,127			2919.0
152	SVF	109	998	1	2	28.7	\$	628.69	\$	18,022			28.7
153	SVF	105	1000	1	2	87.2	\$	1,170.90	\$	102,141	100	12	199.2
154	SVF	109	1000	1	2	4316.6	\$	1,170.90	\$	5,054,268			4316.6
155	SVF	109	1200	1	2	103.4	\$	1,170.90	\$	121,032			103.4
156	SVF	109	1400	1	2	316.1	\$	1,170.90	\$	370,159		12	328.1
157	SVF	109	1500	1	2	35.8	\$	1,170.90	\$	41,957			35.8
158	SVF	109	2300	1	2	36.0	\$	1,170.90	\$	42,152			36.0
159	SVF	105	3000	1	2	13.0	\$	3,797.00	\$	49,361	45	12	70.0
160	SVF	109	3000	1	2	1031.0	\$	3,797.00	\$	3,914,836			1031.0
161	SVF	105	5000	1	3	-24.0	\$	4,954.00	\$	(118,896)		12	-12.0
162	SVF	109	5000	1	3	197.8	\$	4,954.00	\$	979,896	20		217.8
163	SVF	109	7000	1	3	62.8	\$	5,276.00	\$	331,333	36		98.8
164	SVF	109	11000	1	3	1.1	\$	6,916.00	\$	7,379	5		6.1
165	SVF	109	16000	1	4	16.1	\$	7,608.00	\$	122,740			16.1
166	SVI	106	1000	1	2	12.0	\$	1,170.90	\$	14,051		-12	0.0
167	SVI	106	1400	1	2	12.0	\$	1,170.90	\$	14,051		-12	0.0
168	SVI	106	3000	1	2	12.0	\$	3,797.00	\$	45,564		-12	0.0

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169	SVI	106	5000	1	3	39.0	\$	4,954.00	\$	193,206	-39	0.0
170	SVI	106	7000	1	3	21.0	\$	5,276.00	\$	110,796	-21	0.0
171	SVI	106	11000	1	3	48.0	\$	6,916.00	\$	331,968	-48	0.0
172	SVI	106	23000	1	4	12.0	\$	9,124.00	\$	109,488	-12	0.0
173	SVI	106	30000	1	4	12.0	\$	9,124.00	\$	109,488	-12	0.0

Lines 26-173 are taken from Company books and redcord and reflect movement of customers from rates no longer used to remaining rates.

Class designations map "S" rates to Small, "M" rates to Medium, and "L" rates and CPS to Large

Group designations map meter types to Meter Class 1, 2, 3, and 4 based on meter size.

Column (g) is derived from the lookup table at Lines 1-25 based on the meter size in Column (c).

Column (h) is Column (g) multiplied by Column (f).

Columns (i)-(k) reclassifies customers from rates no longer used to remaining rates.

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Calculation of Metering Charges

Line	Group	Units	Installed Cost	Allocated Cost	Unit Cost	Source
	(a)	(b)	(c)	(d)	(e)	
174	1	1,031,467	\$ 253,383,290	\$ 3,814,413	\$ 3.70	This tables sums total units (Lines 26-173, Column (l)) and total installed cost (Lines 26-173, Column (h)) by meter class. Column (d) is Lines 174-177 Column (c) multiplied by Line 180. Column (e) is Column (d) divided by Column (b).
175	2	19,233	\$ 29,270,194	\$ 440,631	\$ 22.91	
176	3	3,801	\$ 20,428,187	\$ 307,524	\$ 80.90	
177	4	426	\$ 3,557,511	\$ 53,554	\$ 125.57	
178	Total	1,054,928	\$ 306,639,182	\$ 4,616,123	\$ 4.38	
179	Metering Revenue Requirements			\$ 4,616,123		Tab CLS1-1, Line 5, Column (b)
180	Multipliers			0.0151		Line 179 divided by Line 178, Column (c)

	Class	Units	Installed Cost	Unit Cost	Customer Weight	
181	1	1,040,900	\$ 268,226,975	\$ 257.69	1.0000	This section calculates customer weights for the metering revenue requirement by rate class in Tab CLS1-1 (not used in actual meter charge or customer charge calculations)
182	2	13,717	\$ 36,411,924	\$ 2,654.50	10.3012	
183	3	311	\$ 2,000,282	\$ 6,421.74	24.9206	
184	Total	1,054,928	\$ 306,639,182	\$ 290.67		

	Regulators	Installed Cost	Customer Weight	
185	Small	\$ 48.80	1.00000	This section calculates customer weights for Regulators
186	Medium	\$ 351.50	7.20287	
187	Large	\$ 804.25	16.48053	

	Services	Installed Cost	Customer Weight	
188	Small	\$ 990.60	1.00000	This section calculates customer weights for Services
189	Medium	\$ 3,087.00	3.11629	
190	Large	\$ 3,158.00	3.18797	