## Commonwealth of Massachusetts Department of Telecommunications and Energy Fitchburg Gas and Electric Light Company

Docket Nos. D.T.E. 02-24/25

Responses to the Division of Energy Resources First Set of Information Requests

## Request No. DOER 1-12 (Gas):

Schedule KMA-3 (Gas) provides the Marginal Cost Customer and Volumetric Components for each rate class. For the last three Company rate cases, please provide, for each customer class, the Company's estimated Marginal Cost Customer and Volumetric Components.

## Response:

For FG&E's Gas Division, the last three rate cases were; D.T.E. 98-51 (filed on May 15, 1998), D.P.U. 84-145 (filed on July 16, 1984), and D.P.U. 1214 (filed on July 16, 1982).

A summary of marginal unit costs used in the design of rates in D.T.E. 98-51, is provided in Attachment DOER 1-12 (Gas).

For D.P.U. 84-145 and D.P.U. 1214, FG&E did not file marginal cost studies.

Person Responsible: Karen M. Asbury

TABLE - 13 FITCHBURG GAS & ELECTRIC COMPANY MARGINAL COST ANALYSIS

Summary of Marginal Unit Costs per Dt

P	Description										
ŝ		8	<u>}</u>	<- Res No⊓ Ht>	^ ¥ □	< Small C&I>	수 당	<- Medium C&I>	<u>م</u>	<- Large C&l ->	^ <del>.</del>
		Reg Ht	ow Inc Ht	Low Inc Ht Reg NonHt Lowinc N-H Hi Winter Lo Winter	WINC N-H	Hi Winter	Lo Winter	HI WINTER LO WINTER	Lo Winter	HI WITTE	Lo winter
-	CUSTOMER CHARGE \$'s per Month						!				
7	Customer Transportation	\$34.55	\$34.56	\$33.74	\$33.72	\$35.83	\$35.47	\$120.93	\$120.16	\$272.32	47.7.4 40.04
m	Customer Supply	20.41	20.40	20.02	20.03	\$1.18		211.63	27.114	00708	2700.30
4 4	Total Customer Charge	23.96	\$34.96	<b>\$33.80</b>	\$33.80	430.93	4.00.4	\$132.70	\$132.14	08:80c¢	\$132.00
O d	MINITED CHADGES										
7 0	Wilder Carolin Cont	\$0.042	CO RAR	\$C 8 0\$	2007	\$1,003	SO 850	\$0.921	\$0.786	\$0.895	\$0.734
٠,		40.04		50.050		80.0	200	\$0.024	0000	\$0.023	61003
<b>x</b> 0 (	Winter I ransponation Pressure Support	40.024	20.022	\$0.05 \$0.00	0.020	20.02					
on ;	Winter Transportation Kelmorcements	20.00	2000	0000	2000	25.5	5.55	3 2	200	473	200
₽:	Winter Transportation Main Ext	\$1.233	90 C	000	600	200	2 6	000	2	2 5	
= :	Winter Commodity - Mains Ext	2000	20.000	00.00	30.00	40.000	0000	40.000	\$0.000 \$1733	\$0.000 \$2.728	63 607
2 9		77.77	27.50	\$5.73 \$6 673	55.14.1	48 084	65 874	ES 883	5 550	55 827	\$5.411
2 3	iotal winter + s per Lt	176.04	60.030	67.07.0	3			200	200		
i ć	Winter Sunoh	\$4.669	\$4.563	54.567	\$4.511	\$4.745	\$4.539	\$4.653	\$4.508	\$4.631	\$4.431
. <del>C</del>	(6 Winter Transportation	\$1.258	\$1,130	\$1,106	\$1.055	\$1,339	\$1.135	\$1.230	\$1,050	\$1.196	\$0.980
7	Total Winter \$'s per Dt	\$5.927	\$5.693	\$5.673	\$5.566	\$6.084	\$5.674	\$5.883	\$5.52	\$5.827	\$5.411
18											
19	Ø			;							
ଷ		\$0.000	\$0.000	\$0.000	20.000	\$0.000	20.000	20.000	20.000		20.000
7	Summer Commodity - Mains Ext	\$0.000	20.00	\$0.000	000	\$0.000	0000	\$0.000	0000	\$0.000	20.000
23	Commodity Charge	\$2.744	\$2,739	\$2.714	22.708	\$2.758	22.707	27.17	7		22.703
ន	Total Summer \$'s per Dt	\$2.744	\$2.739	\$2.714	\$2.708	\$2.738	\$2.707	\$2.772	\$2.71		\$2.703
77											
32	O	(1997-96)		0	200	3	790	7	8	ç	٠
8	Customers	9,816	2 2	2,613	7 6	5 5	707	87-6	8 8	7 7	4 242
27	Design Day Dt	P,041	/96 o	86	3 6	776'-	700	3,440	400	074'	1,313
8		812,543	200	70,70	90,0	20,463	20,33	280,040	65,039	24,972	131,439
2 8	Summer Di	1026.007	85.476	85.051	1 6	182 684	53.966	347.866	168 133	157,302	269 176
3 %		00'00'			;				1		
; e	Annual Design Day Load Factor (30/365/(27)	31%	35%	41%	42%	28%	48%	30%	48%	30%	26%
8	% of Use in Winter	79%	78%	%89	70%	89%	57%	85%	61%	<b>86%</b>	26%
8											
8	Functional Summary of Rates										
36											
37	U	;	;	!	3	•	•		•		0000
88		10.41	\$0.40	70.0	\$0.08	01.14	\$0.04 \$0.04	0.11.60	98.11.46	967.99	\$200.90
3	-	7.669	54.563	<b>3</b> .36	FFC.54	4.45	B. 1.03	200	200	25.02	25.43
육 :	Summer \$'s per MCF	\$2.744	\$2.739	\$2.714	\$2.708	\$2.738	\$2.707	\$2.112	LL/.7.	\$2.782	\$2.703
41											
42	_	33 760	634 EB	633 74	623 73	£35.83	£35 A7	£120 03	4120 18	£272 32	\$471.04
		25.00	200	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	£1 055	41 330	£1 135	£1 230	21050	•	080
<b>4</b> ;		007.14	2 5	90.100		500 C	2	200	96		9000
đ	Summer as per MCF	90.00	90.00	9	8			200			

NOTES:
1 Source: TABLE - 12 revenues divided by calendar month normalized determinants.