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	Comparison of Present and Proposed Rates (R-3 Winter)										
Bill Percentile	Therms	Base Rate Present	Base Rate— Proposed	Difference— Revenue	Difference— Percent	Rate w/ CGC— Present	Rate w/ CGC— Proposed	Difference— Revenue	Difference— Percent		
25%	60	\$28.83	\$37.24	\$8.40	29.15%	\$87.47	\$96.54	\$9.07	10.37%		
50%	100	\$38.70	\$48.06	\$9.36	24.19%	\$136.43	\$146.90	\$10.47	7.67%		
75%	175	\$52.64	\$63.35	\$10.71	20.34%	\$223.67	\$236.32	\$12.65	5.66%		
SOURCE:P	MN-RD-4-5,	page 3 of 24	•	,			L	L			

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Average Monthly Natural Gas Bills and Average Number of Rooms by Income (New Hampshire) (2008)								
Income Range	Monthly Gas Bills	Number of Rooms						
\$0 - \$9,999	\$61.50	4.9						
\$10 - \$14,999	\$45.90	4.1						
\$15 - \$19,999	\$56.20	4.4						
\$20 - \$29,999	\$75.00	4.7						
\$30 - \$49,999	\$97.00	4.8						
\$50 - \$74,999	\$122.50	5.3						
\$75 - \$149,999	\$133.90	6.2						
\$150,000 or more	\$158.90	7.8						
SOURCE: 2008 American	Community Survey							

Number of Rooms	Natural Gas Bill	Average Income
1	\$49.30	\$26,112
2	\$29.90	\$38,109
3	\$37.30	\$36,773
4	\$72.60	\$55,914
5	\$112.10	\$62,757
6	\$134.20	\$73,420
7	\$144.90	\$95,442
8	\$157.90	\$130,160
9	\$188.90	\$111,745
10	\$223.50	\$191,139
11	\$304.30	\$128,769
12	\$237.60	\$195,323

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Natural Gas Expenditures by Income (Northeast Region)										
	Total Northeast	Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$19,999	\$20,000 to \$29,999	\$30,000 to \$39,999	\$40,000 to \$49,999	\$50,000 to \$69,999	\$70,000 and more
2005-2006	\$640	\$278	\$319	\$370	\$576	\$533	\$596	\$645	\$723	\$823
2006-2007	\$656	\$217	\$291	\$386	\$554	\$510	\$535	\$647	\$732	\$888
2007-2008	\$690	\$281	\$318	\$420	\$520	\$515	\$548	\$625	\$691	\$965
2008-2009	\$723	\$334	\$399	\$408	\$470	\$565	\$625	\$663	\$683	\$996
SOURCE: US	S Department of	f Labor, Consu	mer Expenditi	ires Tables (2-Y	'ear Tables, Ar	nnual).				

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R-3 Colton	Percentile 25 50 75	Usage 60 100 175	Customer Charge 15.43 15.43 15.43	Block 1 0.3298 0.3298 0.3298	Block 2 0.3298 0.3298 0.3298	Proposed \$35.22 \$48.41 \$73.15	Existing \$28.83 \$38.70 \$52.64	Difference (\$) \$6.39 \$9.71 \$20.51	Difference (%) 22.16% 25.09% 38.95%
Company	25 50 75	60 100 175	21.00 21.00 21.00	0.2706 0.2706 0.2706	0.2039 0.2039 0.2039	\$37.24 \$48.06 \$68.36	\$28.83 \$38.70 \$52.64	\$8.41 \$9.36 \$15.72	29.16% 24.19% 29.85%
D 4	Dereentile	Linoro	Customer	Diask 1	Diack 2	Dranaad	Eviating	Difference	Difference
R-4	Percentile	Usage	Charge	Block 1	Block 2	Proposed	Existing	(\$)	(%)
R-4 Colton	25	70	Charge 6.17	0.1319	0.1319	\$15.41	\$12.52	(\$) \$2.89	(%) 23.04%
		-	Charge			•	-	(\$)	(%)
Colton	25 50 75	70 100 150	Charge 6.17 6.17 6.17	0.1319 0.1319 0.1319	0.1319 0.1319 0.1319	\$15.41 \$19.36 \$25.96	\$12.52 \$15.48 \$19.20	(\$) \$2.89 \$3.88 \$6.76	(%) 23.04% 25.08% 35.19%
	25 50 75 25	70 100 150 70	Charge 6.17 6.17 6.17 8.40	0.1319 0.1319 0.1319 0.1319	0.1319 0.1319 0.1319 0.0816	\$15.41 \$19.36 \$25.96 \$15.97	\$12.52 \$15.48 \$19.20 \$12.52	(\$) \$2.89 \$3.88 \$6.76 \$3.45	(%) 23.04% 25.08% 35.19% 27.59%
Colton	25 50 75	70 100 150	Charge 6.17 6.17 6.17	0.1319 0.1319 0.1319	0.1319 0.1319 0.1319	\$15.41 \$19.36 \$25.96	\$12.52 \$15.48 \$19.20	(\$) \$2.89 \$3.88 \$6.76	(%) 23.04% 25.08% 35.19%

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Natural Gas Consumption by Income (1997 vs. 2005) (MCF)										
2005	<\$10,000	\$10,000- \$14,999	\$15,000- \$19,999	\$20,000- \$29,999	\$30,000- \$39,999	\$40,000- \$49,999	\$50,000- \$74,999	\$75,000- \$99,999	\$100,000 or more	Total
Usage (MCF)	51	49	48	52	45	48	45	54	51	49
1997	<\$10,000	\$10,000 - \$24,999		\$25,000	- \$49,999	\$50,000 or more			Total	
Usage (MCF)	55		60							65
Usage Reduction (MCF)	4	11	12	8	21	18	21	12	15	16
Percent Reduction	7%	18%	20%	13%	32%	27%	32%	18%	23%	25%

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		Natural Ga	s Usage Inten	sity by Incom	ne (1997 vs. 2	.005) (MCF p	er [HDD x HS	SF / 1,000])		
2005	<\$10,000	\$10,000- \$14,999	\$15,000- \$19,999	\$20,000- \$29,999	\$30,000- \$39,999	\$40,000- \$49,999	\$50,000- \$74,999	\$75,000- \$99,999	\$100,000 or more	Total
Intensity	9.959	10.036	8.566	8.332	6.514	6.387	5.701	4.574	4.803	6.283
1997	<\$10,000	\$10,000 - \$24,999		\$25,000	- \$49,999	\$50,000 or more			Total	
Intensity	11.242		9.758		7.0	610	6.406			7.676
Intensity Reduction	1.283	-0.278	1.192	1.426	1.096	1.223	0.705	1.832	1.603	1.39
Percent Reduction	11%	-3%	12%	15%	14%	16%	11%	29%	25%	18%

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2005	<\$10,000	\$10,000- \$14,999	\$15,000- \$19,999	\$20,000- \$29,999	\$30,000- \$39,999	\$40,000- \$49,999	\$50,000- \$74,999	\$75,000- \$99,999	\$100,000 or more	Total
ntensity	1,393	1,430	1,518	1,709	1,937	2,314	2,361	2,939	3,311	2,171

	Low-income	Average Residential
Heating intensity (1997)	11.242	7.676
Housing size (000 SF)	1.5	2.5
HDDs (NH)	6,588	6,588
Use	1,111	1,264
Average price	0.98	0.98
Total revenue	\$1,089	\$1,239
Total number of customers	1,000	1,000
Total customers by income	180	820
Aggregate gas space heatng revenue	\$196,020	\$1,015,980

	Low-income	Non-low-income
Heating intensity (2005)	9.959	6.283
Housing size (000 SF)	1.5	2.5
HDDs (NH)	6,588	6,588
Use	984	1,035
Average price	\$0.980	\$0.980
Total revenue	\$964	\$1,014
Total number of customers	1,000	1,000
Total customers by income	180	820
Aggregate space heating revenue	\$173,520	\$831,480
Lost space heating revenue	\$22,500	\$184,500
Total lost revenue	\$207,000	\$207,000
Average usage	984	1,035
Aggregate usage	177,147	848,544
Total aggregate usage	1,025,691	1,025,691
Lost revenue per kWh	\$0.2018	\$0.2018
Lost revenue paid by income	\$35,751	\$171,249
Excess/(loss) paid by income	\$13,251	(\$13,251)
Total lost revenue paid	\$207,000	\$207,000
	\$13.25	(\$13.25)

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Basic Family Budget by Household Size and Structure (Selected Cities—New Hampshire)

	1-parent/1-child	1-parent/2-children	2-parent/2-children
Manchester	\$41,231	\$50,239	\$55,609
Nashua	\$43,407	\$52,503	\$57,784
Rural	\$37,866	\$46,128	\$51,698
100% of Federal Poverty Level	\$14,000	\$17,600	\$21,200
200% of Federal Poverty Level	\$28,000	\$35,200	\$42,400

SOURCE: Economic Policy Institute: Basic Family Budget Calculator (October 2008).

	Disconnect Nonpayment	Reconnections	Percent Reconnected
Jan-06	14	9	64.3%
Feb-06	15	6	40.0%
Mar-06	9	4	44.4%
Apr-06	246	81	32.9%
May-06	291	78	26.8%
Jun-06	220	32	14.5%
Jul-06	186	31	16.7%
Aug-06	239	50	20.9%
Sep-06	243	79	32.5%
Oct-06	168	88	52.4%
Nov-06	12	3	25.0%
Dec-06	26	15	57.7%
Jan-07	16	6	37.5%
Feb-07	16	9	56.3%
Mar-07	24	12	50.0%
Apr-07	232	81	34.9%
May-07	290	93	32.1%
Jun-07	224	58	25.9%
Jul-07	202	36	17.8%
Aug-07	200	52	26.0%
Sep-07	231	58	25.1%
Oct-07	237	87	36.7%
Nov-07	80	41	51.3%
Dec-07	0	0	
Jan-08	12	5	41.7%
Feb-08	14	5	35.7%
Mar-08	16	8	50.0%
Apr-08	265	87	32.8%
May-08	285	95	33.3%
Totals	4,013	1,209	30.1%

Collection Data: National Grid NH: January 2006 through May 2008

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Schedule RDC-12 Page 1 of 2

ENERGYNORTH NATURAL GAS, INC. d/b/a NATIONAL GRID NH DG 10-017

National Grid NH's Responses to Staff's Data Requests – Set #1

Date Received: May 11, 2010 Request No.: Staff 1-11 Date of Response: May 26, 2010 Witness: Ann E. Leary

REQUEST: For 2002-2009, please provide the average monthly bill (and commodity-related percentage portion of the bill) for each calendar month for the following customer classes:

- a. Residential non-heat (R-1)
- b. Residential heating (R-3)
- c. Non-Residential
- **RESPONSE:** Please see the Company's previous objection to this request. Notwithstanding that objection, and without waiving it, the Company responds as follows:

Please see Attachment Staff 1-11 for the years 2003-2009.

National Grid NH Docket DG 10-017 Attachment Slaff 1-11 Page 1 of 1

2003	R-1 CGA %	<u>Jan</u> \$32.87 54.80%	<u>Feb</u> \$35.49 56.08%	<u>Mar</u> \$32.68 54.51%	<u>Apr</u> \$28.06 51,98%	<u>May</u> \$27.80 54.26%	<u>Jun</u> \$24.21 54.76%	<u>Jul</u> \$22.34 53 49%	<u>Aug</u> \$21.22 51.69%	<u>Sep</u> \$19.93 48.28%	<u>Oct</u> \$23.76 52.19%	<u>Nov</u> \$28.13 54.94%	<u>Dec</u> \$34.96 59.81%
	R-3	\$140.59	\$169.59	\$147.80	\$101.60	\$70.41	\$49.93	\$36.21	\$32.63	\$32.58	\$48.90	\$86.03	\$142.06
	CGA %	64.68%	65.50%	64.97%	61.03%	60.50%	62 14%	55.99%	53.22%	52.54%	60.62%	66.45%	69 30%
	Non Res	\$860.64	\$934.86	\$877 54	\$608.99	\$396.95	\$290.80	\$224.78	\$213.12	\$186.94	\$260.94	\$467.65	\$775.12
	CGA %	65.03%	65.82%	65.79%	62.81%	62.17%	65.42%	62.42%	62.47%	57 80%	62.77%	67.81%	70.27%
2004	R-1 CGA %	<u>Jan</u> \$39.55 61 99%	<u>Feb</u> \$44.56 64.24%	<u>Mar</u> \$37.83 62.35%	<u>Apr</u> \$34.10 60.27%	<u>May</u> \$26.03 54.30%	<u>Jun</u> \$21.94 49.35%	<u>Jul</u> \$20.56 48.97%	<u>Aug</u> \$19.84 48.69%	<u>Sep</u> \$20.06 48.98%	<u>Oct</u> \$22.24 51.27%	<u>Nov</u> \$28.15 57.17%	<u>Dec</u> \$34.78 62.23%
	R-3	\$183.67	\$225 65	\$158.71	\$125.81	\$62.48	\$40.63	\$32 15	\$30 90	\$31.16	\$42.69	\$89.10	\$135 96
	CGA %	71.53%	73.73%	71.17%	68 63%	61.38%	55.30%	50.79%	50 33%	50.53%	57.73%	68.03%	70.89%
	Non Res	\$1.022.91	\$1,293.88	\$976.22	\$680,98	\$351.56	\$220 87	\$186.82	\$181.96	\$196.42	\$237.12	\$476.31	\$747.30
	CGA %	71.97%	72.44%	73 50%	69.02%	61 91%	57.84%	55.33%	56.22%	58.01%	60.32%	69.33%	71.70%
2005	R-1 CGA %	<u>Jan</u> \$40.39 64 14%	<u>Feb</u> \$42.76 64.75%	<u>Mar</u> \$43.01 64.92%	<u>Apr</u> \$34.45 62.72%	<u>May</u> \$31.76 62.08%	<u>Jun</u> \$26.00 56.10%	<u>Jul</u> \$21.71 51.69%	<u>Aug</u> \$20.27 50.91%	<u>Sep</u> \$21.40 52.99%	<u>Oct</u> \$25.25 58,10%	<u>Nov</u> \$34.23 64.69%	<u>Dec</u> \$45.98 69.88%
	R-3	\$182.35	\$207.35	\$183.03	\$129.76	\$79.41	\$52.98	\$34 01	\$31.88	\$33.41	\$44.68	\$101,48	\$193.56
	CGA %	73.18%	74.08%	73.17%	70.99%	68.52%	63.50%	53.47%	52.79%	54.72%	62.48%	73.76%	77.57%
	Non Res CGA %	\$1,009.48 74,12%	\$1,234.06 74.79%		\$766.91 72.11%	\$463.63 69.87%	\$303.85 65.72%	\$194.57 58 50%	\$171.92 56 84%	\$198.33 60.55%	\$273.37 67.09%	\$574.93 74.84%	\$1,056.07 78.00%
2006	R-1 CGA %	<u>Jan</u> \$50.18 70.84%	Feb \$45 72 69.02%	<u>Mar</u> \$44 47 67.33%	<u>Apr</u> \$37.39 64.80%	<u>May</u> \$30.90 61.24%	<u>Jun</u> \$26 90 57.94%	<u>Jul</u> \$22.03 53.19%	<u>Auq</u> \$20.34 50.89%	<u>Sep</u> \$21.97 52 94%	<u>Oct</u> \$24.45 55.50%	<u>Nov</u> \$30.87 60.78%	<u>Dec</u> \$38.21 65.71%
	R-3	\$224.49	\$200.02	\$210.15	\$128 85	\$72.85	\$48.74	\$34 28	\$31.45	\$34.48	\$46.97	\$91.24	\$138.06
	CGA %	78.48%	77.08%	76.54%	72.60%	67.81%	62.74%	54.57%	52.23%	54.74%	61.62%	70.51%	73.36%
	Non Res CGA %	\$1,342.12 78.40%	\$1,187.13 77 24%		\$778.63 73.42%	\$478.93 69.63%	\$305.68 65.49%	\$213.34 60,34%	\$197.56 59.25%	\$222.90 59.51%	\$302.03 65.20%	\$534.73 70.93%	\$780.54 74.36%
2007	R-1 CGA %	<u>Jan</u> \$42.33 67 21%	<u>Feb</u> \$49.60 68 87%	<u>Mar</u> \$47.58 68.74%	<u>Apr</u> \$41,98 67.88%	<u>May</u> \$33.32 63.25%	<u>Jun</u> \$26.35 57.75%	<u>Jul</u> \$26.71 57.75%	<u>Aug</u> \$20.55 51.00%	<u>Sep</u> \$19.81 48.72%	<u>Oct</u> \$21.61 50.86%	<u>Nov</u> \$28.66 59.21%	<u>Dec</u> \$42.25 68.27%
	R-3	\$176.18	\$252.72	\$226.06	\$158.71	\$83.79	\$45.29	\$46.67	\$31.89	\$31.46	\$36.96	\$83.73	\$186.28
	CGA %	75.25%	77.54%	77.14%	75.02%	69.85%	61.40%	61.40%	52.35%	50.81%	54.85%	69.67%	76.82%
	Non Res	\$1,031.90	\$1,445.42	\$1,329.26	\$968.35	\$\$14.38	\$276.37	\$291 80	\$193.11	\$194.44	\$234.60	\$473.43	\$993.83
	CGA %	75.18%	76.96%	77.18%	75.33%	71.05%	64.12%	64.12%	57.34%	55.80%	58.06%	70.30%	76.98%
2008	R-1 CGA %	<u>Jan</u> \$44.88 68.84%	<u>Feb</u> \$45.24 68 82%	<u>Mar</u> \$44.73 68.83%	<u>Apr</u> \$41 79 68.39%	<u>May</u> \$34.08 65.49%	<u>Jun</u> \$29.68 63 05%	<u>Jui</u> \$24.99 61.61%	<u>Auq</u> \$26.03 61.61%	<u>Sep</u> \$22.43 53.72%	<u>Oct</u> \$28.31 56.81%	<u>Nov</u> \$36.58 62.00%	<u>Dec</u> \$46.67 65.75%
	R-3	\$203 09	\$205.98	\$197.71	\$153.43	\$80.39	\$48.95	\$37.50	\$39.16	\$40.51	\$53.06	\$102.56	\$177.85
	CGA %	77.26%	77.26%	77.14%	75.65%	71.47%	65.65%	61.82%	61.82%	58.94%	62.55%	70.90%	73.48%
	Non Res	\$1,171.24	\$1,158.01	\$1,087.91	\$852.06	\$476.71	\$304.24	\$229.94	\$230.30	\$243.64	\$304.04	\$545.20	\$940.05
	CGA %	77 33%	76 68%	75.98%	74.79%	71.15%	68.45%	66.75%	66.75%	64.44%	64.36%	69.53%	70.88%
2009	R-1 CGA %	<u>Jan</u> \$52.56 66.97%	<u>Feb</u> \$51.90 66.60%	<u>Mar</u> \$46.55 64.76%	Apr \$38.75 61.34%	<u>May</u> \$28.68 53 09%	<u>Jun</u> \$22,00 43.06%	<u>Jul</u> \$20.18 40.30%	Aug \$18.75 37.46%	<u>Sep</u> \$18.41 36.22%	<u>Oct</u> \$20.34 39 59%	<u>Nov</u> \$25.61 48.80%	<u>Dec</u> \$34.86 59.95%
	R-3	\$228 95	\$241 94	\$191.73	\$127 94	\$60.89	\$34.51	\$31.03	\$29.22	\$29.40	\$40 11	\$72.80	\$118.31
	CGA %	75 26%	75 51%	73.37%	69.03%	59 05%	44 80%	40.47%	36.67%	36.58%	45.12%	59.50%	68.38%
	Non Res	\$1,182.47	\$1,290.66	\$1,023.24	\$711.09	\$350.76	\$195.01	\$159.77	\$150.64	\$152.82	\$200.26	\$356.83	\$569.86
	CGA %	71.41%	71.77%	69.72%	65.98%	55.29%	45.25%	39.76%	37.74%	36.90%	42.14%	54.47%	64.07%

Average Monthly Bill and Commodity Related Percentage

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PLAIN ENGLISH NOTICE

Low Income Discount Rate

If you feel that you are low income, and you need help paying your gas bill, we have a low income gas discount rate that might help you. This discount could reduce your total bill by up to 20%. If you are interested, please call us at *1-800-LOWBILL*.

You are eligible to receive the discount rate if you show us that you are enrolled in any one of the following programs:

- 1. Fuel Assistance
- 2. Electric Assistance
- 3. Food Stamps (SNAP)
- 4. Public Housing or subsidized (Section 8) housing
- 5. TANF
- 6. Aid to the Permanently and Totally Disabled
- 7. Aid to the Needy Blind
- 8. Old Age Assistance
- 9. School Lunch/School Breakfast
- 10. Head Start
- 11. Supplemental Security Income
- 12. Women, Infants and Children (WIC)
- 13. Commodity Surplus Food

BILL DISCOUNT EXAMPLE:

- \$100 Your current bill
- 20% Low income discount
- \$80 Your bill after receiving discount. You pay this amount.

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APPENDIX A

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Roger D. Colton

BUSINESS ADDRESS:Fisher Sheehan & Colton
Public Finance and General Economics
34 Warwick Road, Belmont, MA 02478
617-484-0597 (voice) *** 617-484-0594 (fax)
roger@fsconline.com (e-mail)
http://www.fsconline.com (www address)

EDUCATION:

J.D. (Order of the Coif), University of Florida (1981)

M.A. (Economics), McGregor School, Antioch University (1993)

B.A. Iowa State University (1975) (journalism, political science, speech)

PROFESSIONAL EXPERIENCE:

Fisher, Sheehan and Colton, Public Finance and General Economics: 1985 - present.

As a co-founder of this economics consulting partnership, Colton provides services in a variety of areas, including: regulatory economics, poverty law and economics, public benefits, fair housing, community development, energy efficiency, utility law and economics (energy, telecommunications, water/sewer), government budgeting, and planning and zoning.

Colton has testified in state and federal courts in the United States and Canada, as well as before regulatory and legislative bodies in more than three dozen states. He is particularly noted for creative program design and implementation within tight budget constraints.

National Consumer Law Center (NCLC): 1986 - 1994

As a staff attorney with NCLC, Colton worked on low-income energy and utility issues. He pioneered cost-justifications for low-income affordable energy rates, as well as developing models to quantify the non-energy benefits (*e.g.*, reduced credit and collection costs, reduced working capital) of low-income energy efficiency. He designed and implemented low-income affordable rate and fuel assistance programs across the country. Colton was charged with developing new practical and theoretical underpinnings for solutions to low-income energy problems.

Community Action Research Group (CARG): 1981 - 1985

As staff attorney for this non-profit research and consulting organization, Colton worked primarily on energy and utility issues. He provided legal representation to low-income persons on public utility issues; provided legal and technical assistance to consumer and labor organizations; and provided legal and technical assistance to a variety of state and local governments nationwide on natural gas, electric, and telecommunications issues. He routinely appeared as an expert witness before regulatory agencies and legislative committees regarding energy and telecommunications issues.

PROFESSIONAL AFFILIATIONS:

Coordinator:	BelmontBudget.org (Belmont's Community Budget Forum)
Coordinator:	Belmont Affordable Shelter Fund (BASF)
Member:	Board of Directors, Belmont Housing Trust, Inc.
Chair:	Housing Work Group, Belmont (MA) Comprehensive Planning Process
Past Chair:	Waverley Square Fire Station Re-use Study Committee (Belmont MA)
Past Member:	Belmont (MA) Energy and Facilities Work Group
Past Member:	Belmont (MA) Uplands Advisory Committee
Past Member:	Advisory Board: Fair Housing Center of Greater Boston.
Past Member:	Fair Housing Committee, Town of Belmont (MA)
Past Member:	Aggregation Advisory Committee, New York State Energy Research and
	Development Authority.
Past Member:	Board of Directors, Vermont Energy Investment Corporation.
Past Member:	Board of Directors, National Fuel Funds Network
Past Member:	National Advisory Committee, U.S. Department of Health and Human
	Services, Administration for Children and Families, Performance Goals for
	Low-Income Home Energy Assistance.
Past Member:	Editorial Advisory Board, International Library, <i>Public Utility Law</i> Anthology.
Past Member:	ASHRAE Guidelines Committee, GPC-8, Energy Cost Allocation of
	Comfort HVAC Systems for Multiple Occupancy Buildings
Past Member:	National Advisory Committee, U.S. Department of Housing and Urban
	Development, Calculation of Utility Allowances for Public Housing.
Past Member:	National Advisory Board: Energy Financing Alternatives for Subsidized
	Housing, New York State Energy Research and Development Authority.

PROFESSIONAL ASSOCIATIONS:

National Association of Housing and Redevelopment Officials (NAHRO) Association for Enterprise Opportunity (AEO) Iowa State Bar Association Energy Bar Association Association for Institutional Thought (AFIT) Association for Evolutionary Economics (AEE)

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Society for the Study of Social Problems (SSSO) International Society for Policy Studies Association for Social Economics

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COLTON EXPERIENCE AS EXPERT WITNESS

1988 - PRESENT

CASE NAME	ROLE	CLIENT NAME	ТОРІС	JURIS.	DATE
I/M/O Commonwealth Edison	Witness	Office of Attorney General	Rate design/revenue requirement	Illinois	10
I/M/O National Grid d/b/a Energy North	Witness	NH Legal Assistance	Rate design/revenue requirement	New Hampshire	10
I/M/O Duquesne Light Company	Witness	Office of Consumer Advocate	Low-income program cost recovery	Pennsylvania	10
I/M/O Avista Natural Gas Corporation	Witness	The Opportunity Council	Low-income assistance/rate design	Washington	10
I/M/O Manitoba Hydro	Witness	Resource Conservation Manitoba (RCM)	Low-income program design	Manitoba	10
I/M/O TW Phillips	Witness	Office of Consumer Advocate	Low-income program cost recovery	Pennsylvania	10
I/M/O PECO Energy—Gas Division	Witness	Office of Consumer Advocate	Low-income program cost recovery	Pennsylvania	10
I/M/O PECO Energy—Electric Division	Witness	Office of Consumer Advocate	Low-income program cost recovery	Pennsylvania	10
I/M/O PPL Energy	Witness	Office of Consumer Advocate	Low-income program cost recovery	Pennsylvania	10
I/M/O Columbia Gas Company	Witness	Office of Consumer Advocate	Low-income program design/cost recovery	Pennsylvania	10
I/M/O Atlantic City Electric Company	Witness	Office of Rate Council	Customer service	New Jersey	10
I/M/O Philadelphia Gas Works	Witness	Office of Consumer Advocate	Low-income program cost recovery	Pennsylvania	10
I/M/O Philadelphia Gas Works	Witness	Office of Consumer Advocates	Low-income program design	Pennsylvania	10
I/M/O Xcel Energy Company	Witness	Xcel Energy Company (PSCo)	Low-income program design	Colorado	09
I/M/O Atmos Energy Company	Witness	Atmos Energy Company	Low-income program funding	Colorado	09
I/M/O New Hampshire CORE Energy Efficiency Programs	Witness	New Hampshire Legal Assistance	Low-income efficiency funding	New Hampshire	09
I/M/O Public Service Company of New Mexico (electric)	Witness	Community Action of New Mexico	Rate Design	New Mexico	09
I/M/O UGI Pennsylvania Natural Gas Company (PNG)	Witness	Office of Consumer Advocate	Low-income program	Pennsylvania	09
I/M/O UGI Central Penn Gas Company (CPG)	Witness	Office of Consumer Advocate	Low-income program	Pennsylvania	09
I/M/O PECO Electric (provider of last resort)	Witness	Office of Consumer Advocate	Low-income program	Pennsylvania	08
I/M/O Equitable Gas Company	Witness	Office of Consumer Advocate	Low-income program	Pennsylvania	08
I/M/O Columbia Gas Company	Witness	Office of Ohio Consumers' Counsel	Rate design	Ohio	08
I/M/O Dominion East Ohio Gas Company	Witness	Office of Ohio Consumers' Counsel	Rate design	Ohio	08

CASE NAME	ROLE	CLIENT NAME	TOPIC	JURIS.	DATE
I/M/O Vectren Energy Delivery Company	Witness	Office of Ohio Consumers' Counsel	Rate design	Ohio	08
I/M/O Public Service Company of North Carolina	· Witness	NC Department of Justice	Rate design	North Carolina	08
I/M/O Piedmont Natural Gas Company	Witness	NC Department of Justice	Rate design	North Carolina	08
I/M/O National Grid	Witness	New Hampshire Legal Assistance	Low-income rate assistance	New Hampshire	08
I/M/O EmPower Maryland	Witness	Office of Peoples Counsel	Low-income energy efficiency	Maryland	08
I/M/O Duke Energy Carolinas Save-a-Watt Program	Witness	NC Equal Justice Foundation	Low-income energy efficiency	North Carolina	08
I/M/O Zia Natural Gas Company	Witness	Community Action New Mexico	Low-income/low-use rate design	New Mexico	08
I/M/O Universal Service Fund Support for the Affordability of Local Rural Telecomm Service	Witness	Office of Consumer Advocate	Telecomm service affordability	Pennsylvania	08
I/M/O Philadelphia Water Department	Witness	Public Advocate	Credit and Collections	Philadelphia	08
I/M/O Portland General Electric Company	Witness	Community ActionOregon	General rate case	Oregon	08
I/M/O Philadelphia Electric Company (electric)	Witness	Office of Consumer Advocate	Low-income program	Pennsylvania	08
I/M/O Philadelphia Electric Company (gas)	Witness	Office of Consumer Advocate	Low-income program	Pennsylvania	08
I/M/O Columbia Gas Company	Witness	Office of Consumer Advocate	Low-income program	Pennsylvania	08
I/M/O Public Service Company of New Mexico	Witness	Community Action New Mexico	Fuel adjustment clause	New Mexico	08
I/M/O Petition of Direct Energy for Low-Income Aggregation	Witness	Office of Peoples Counsel	Low-income electricity aggregation	Maryland	07
I/M/O Office of Consumer Advocate et al. v. Verizon and Verizon North	Witness	Office of Consumer Advocate	Lifeline telecommunications rates	Pennsylvania	07
I/M/O Pennsylvania Power Company	Consultant	Office of Consumer Advocate	Low-income program	Pennsylvania	07
I/M/O National Fuel Gas Distribution Corporation	Consultant	Office of Consumer Advocate	Low-income program	Pennsylvania	07
I/M/O Public Service of New MexicoElectric	Witness	Community Action New Mexico	Low-income programs	New Mexico	07
I/M/O Citizens Gas/NIPSCO/Vectren for Universal Service Program	Witness	Citizens Gas & Coke Utility/Northern Indiana Public Service/Vectren Energy	Low-income program design	Indiana	07
I/M/O PPL Electric	Witness	Office of Consumer Advocate	Low-income program	Pennsylvania	07
I/M/O Section 15 Challenge to NSPI Rates	Witness	Energy Affordability Coalition	Discrimination in utility regulation	Nova Scotia	07
I/M/O Philadelphia Gas Works	Witness	Office of Consumer Advocate	Low-income and residential collections	Pennsylvania	07
I/M/O Equitable Gas Company	Witness	Office of Consumer Advocate	Low-income program	Pennsylvania	07
I/M/O Section 11 Proceeding, Energy Restructuring	Witness	Office of Peoples Counsel	Low-income needs and responses	Maryland	06

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CASE NAME	ROLE	CLIENT NAME	TOPIC	JURIS.	DATE
I/M/O Citizens Gas/NIPSCO/Vectren for Universal Service Program	Witness	Citizens Gas & Coke Utility/Northern Indiana Public Service/Vectren Energy	Low-income program design	Indiana	06
I/M/O Public Service Co. of North Carolina	Witness	North Carolina Attorney General/Dept. of Justice	Low-income energy usage	North Carolina	06
I/M/O Electric Assistance Program	Witness	New Hampshire Legal Assistance	Electric low-income program design	New Hampshire	06
I/M/O Verizon Petition for Alternative Regulation	Witness	New Hampshire Legal Assistance	Basic local telephone service	New Hampshire	06
I/M/O Pennsylvania Electric Co/Metropolitan Edison Co.	Witness	Office of Consumer Advocate	Universal service cost recovery	Pennsylvania	06
I/M/O Duquesne Light Company	Witness	Office of Consumer Advocates	Universal service cost recovery	Pennsylvania	06
I/M/O Natural Gas DSM Planning	Witness	Low-Income Energy Network	Low-income DSM program.	Ontario	06
I/M/O Union Gas Co.	Witness	Action Centre for Tenants Ontario (ACTO)	Low-income program design	Ontario	06
I/M/O Public Service of New Mexico merchant plant	Witness	Community Action New Mexico	Low-income energy usage	New Mexico	06
I/M/O Customer Assistance Program design and cost recovery	Witness	Office of Consumer Advocate	Low-income program design	Pennsylvania	06
I/M/O NIPSCO Proposal to Extend Winter Warmth Program	Witness	Northern Indiana Public Service Company	Low-income energy program evaluation	Indiana	05
I/M/O Piedmont Natural Gas	Witness	North Carolina Attorney General/Dept. of Justice	Low-income energy usage	North Carolina	05
I/M/O PSEG merger with Exelon Corp.	Witness	Division of Ratepayer Advocate	Low-income issues	New Jersey	05
Re. Philadelphia Water Department	Witness	Public Advocate	Water collection factors	Philadelphia	05
I/M/O statewide natural gas universal service program	Witness	New Hampshire Legal Assistance	Universal service	New Hampshire	05
I/M/O Sub-metering requirements for residential rental properties	Witness	Tenants Advocacy Centre of Ontario	Sub-metering consumer protections	Ontario	05
I/M/O National Fuel Gas Distribution Corp.	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	05
I/M/O Nova Scotia Power, Inc.	Witness	Dalhousie Legal Aid Service	Universal service	Nova Scotia	04
I/M/O Lifeline Telephone Service	Witness	National Ass'n State Consumer Advocates (NASUCA)	Lifeline rate eligibility	FCC	04
Mackay v. Verizon North	Witness	Office of Consumer Advocate	Lifeline rates—vertical services	Pennsylvania	04
I/M/O PECO Energy	Witness	Office of Consumer Advocate	Low-income rates	Pennsylvania	04
I/M/O Philadelphia Gas Works	Witness	Office of Consumer Advocate	Credit and collections	Pennsylvania	04
I/M/O Citizens Gas & Coke/Vectren	Witness	Citizens Action Coalition of Indiana	Universal service	Indiana	04
I/M/O PPL Electric Corporation	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	04

CASE NAME	ROLE	CLIENT NAME	TOPIC	JURIS.	DATE
I/M/O Consumers New Jersey Water Company	Witness	Division of Ratepayer Advocate	Low-income water rate	New Jersey	04
I/M/O Washington Gas Light Company	Witness	Office of Peoples Counsel	Low-income gas rate	Maryland	04
I/M/O Washington Gas Light Company	Witness	Office of Peoples Counsel	Low-income gas rate	Maryland	03
Golden v. City of Columbus	Witness	Helen Golden	ECOA disparate impacts	Ohio	02
Huegel v. City of Easton	Witness	Phyllis Huegel	Credit and collection	Pennsylvania	02
I/M/O Universal Service Fund	Witness	Public Utility Commission staff	Universal service funding	New Hampshire	02
I/M/O Philadelphia Gas Works	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	02
I/M/O Washington Gas Light Company	Witness	Office of Peoples Counsel	Rate design	Maryland	02
I/M/O Consumers Illinois Water Company	Witness	Illinois Citizens Utility Board	Credit and collection	Illinois	02
I/M/O Public Service Electric & Gas Rates	Witness	Division of Ratepayer Advocate	Universal service	New Jersey	01
I/M/O Pennsylvania-American Water Company	Witness	Office of Consumer Advocate	Low-income rates and water conservation	Pennsylvania	01
I/M/O Louisville Gas & Electric Prepayment Meters	Witness	Kentucky Community Action Association	Low-income energy	Kentucky	01
I/M/O NICOR Budget Billing Plan Interest Charge	Witness	Cook County State's Attorney	Rate Design	Illinois	01
I/M/O Rules Re. Payment Plans for High Natural Gas Prices	Witness	Cook County State's Attorney	Budget Billing Plans	Illinois	01
I/M/O Philadelphia Water Department	Witness	Office of Public Advocate	Credit and collections	Philadelphia	01
I/M/O Missouri Gas Energy	Witness	Office of Peoples Counsel	Low-income rate relief	Missouri	01
I/M/O Bell Atlantic New Jersey Alternative Regulation	Witness	Division of Ratepayer Advocate	Telecommunications universal service	New Jersey	01
I/M/O T.W. Phillips Gas and Oil Co.	Witness	Office of Consumer Advocate	Ratemaking of universal service costs.	Pennsylvania	00
I/M/O Peoples Natural Gas Company	Witness	Office of Consumer Advocate	Ratemaking of universal service costs.	Pennsylvania	00
I/M/O UGI Gas Company	Witness	Office of Consumer Advocate	Ratemaking of universal service costs.	Pennsylvania	00
I/M/O PFG Gas Company	Witness	Office of Consumer Advocate	Ratemaking of universal service costs.	Pennsylvania	00
Armstrong v. Gallia Metropolitan Housing Authority	Witness	Equal Justice Foundation	Public housing utility allowances	Ohio	00
I/M/O Bell AtlanticNew Jersey Alternative Regulation	Witness	Division of Ratepayer Advocate	Telecommunications universal service	New Jersey	00
I/M/O Universal Service Fund for Gas and Electric Utilities	Witness	Division of Ratepayer Advocate	Design and funding of low-income programs	New Jersey	00
I/M/O Consolidated Edison Merger with Northeast Utilities	Witness	Save Our Homes Organization	Merger impacts on low-income	New Hampshire	00

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CASE NAME	ROLE	CLIENT NAME	TOPIC	JURIS.	DATE
I/M/O UtiliCorp Merger with St. Joseph Light & Power	Witness	Missouri Dept. of Natural Resources	Merger impacts on low-income	Missouri	00
I/M/O UtiliCorp Merger with Empire District Electric	Witness	Missouri Dept. of Natural Resources	Merger impacts on low-income	Missouri	00
I/M/O PacifiCorp	Witness	The Opportunity Council	Low-income energy affordability	Washington	00
I/M/O Public Service Co. of Colorado	Witness	Colorado Energy Assistance Foundation	Natural gas rate design	Colorado	00
I/M/O Avista Energy Corp.	Witness	Spokane Neighborhood Action Program	Low-income energy affordability	Washington	00
I/M/O TW Phillips Energy Co.	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	00
I/M/O PECO Energy Company	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	00
I/M/O National Fuel Gas Distribution Corp.	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	00
I/M/O PFG Gas Company	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	00 -
I/M/O UGI Energy Company	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	00
Re. PSCO/NSP Merger	Witness	Colorado Energy Assistance Foundation	Merger impacts on low-income	Colorado	99 - 00
I/M/O Peoples Gas Company	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	99
I/M/O Columbia Gas Company	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	99
I/M/O PG Energy Company	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	99
I/M/O Equitable Gas Company	Witness	Office of Consumer Advocate	Universal service	Pennsylvania	99
Allerruzzo v. Klarchek	Witness	Barlow Allerruzzo	Mobile home fees and sales	Illinois	99
I/M/O Restructuring New Jersey's Natural Gas Industry	Witness	Division of Ratepayer Advocate	Universal service	Pennsylvania	99
I/M/O Bell Atlantic Local Competition	Witness	Public Utility Law Project	Lifeline telecommunications rates	New Jersey	99
I/M/O Merger Application for SBC and Ameritech Ohio	Witness	Edgemont Neighborhood Association	Merger impacts on low-income consumers	Ohio	98 - 99
Davis v. American General Finnce	Witness	Thomas Davis	Damages in "loan flipping" case	Ohio	98 - 99
Griffin v. Associates Financial Service Corp.	Witness	Earlie Griffin	Damages in "loan flipping" case	Ohio	98 - 99
I/M/O Baltimore Gas and Electric Restructuring Plan	Witness	Maryland Office of Peoples Counsel	Consumer protection/basic generation service	Maryland	98 - 99
I/M/O Delmarva Power and Light Restructuring Plan	Witness	Maryland Office of Peoples Counsel	Consumer protection/basic generation service	Maryland	98 - 99
I/M/O Potomac Electric Power Co. Restructuring Plan	Witness	Maryland Office of Peoples Counsel	Consumer protection/basic generation service	Maryland	98 - 99
I/M/O Potomac Edison Restructuring Plan	Witness	Maryland Office of Peoples Counsel	Consumer protection/basic generation service	Maryland	98 - 99

CASE NAME	ROLE	CLIENT NAME	TOPIC	JURIS.	DATE
VMHOA v. LaPierre	Witness	Vermont Mobile Home Owners Association	Mobile home tying	Vermont	98
Re. Restructuring Plan of Virginia Electric Power	Witness	VMH Energy Services, Inc.	Consumer protection/basic generation service	Virginia	98
Mackey v. Spring Lake Mobile Home Estates	Witness	Timothy Mackey	Mobile home fees	State ct: Illinois	98
Re. Restructuring Plan of Atlantic City Electric	Witness	New Jersey Division of Ratepayer Advocate	Low-income issues	New Jersey	97-98
Re. Restructuring Plan of Jersey Central Power & Light	Witness	New Jersey Division of Ratepayer Advocate	Low-income issues	New Jersey	97-98
Re. Restructuring Plan of Public Service Electric & Gas	Witness	New Jersey Division of Ratepayer Advocate	Low-income issues	New Jersey	97-98
Re. Restructuring Plan of Rockland Electric	Witness	New Jersey Division of Ratepayer Advocate	Low-income issues	New Jersey	97-98
Appleby v. Metropolitan Dade County Housing Agency	Witness	Legal Services of Greater Miami	HUD utility allowances	Fed. court: So. Florida	97 - 98
Re. Restructuring Plan of PECO Energy Company	Witness	Energy Coordinating Agency of Philadelphia	Universal service	Pennsylvania	97
Re. Atlantic City Electric Merger	Witness	New Jersey Division of Ratepayer Advocate	Low-income issues	New Jersey	97
Re. IES Industries Merger	Witness	Iowa Community Action Association	Low-income issues	Iowa	97
Re. New Hampshire Electric Restructuring	Witness	NH Comm. Action Ass'n	Wires charge	New Hampshire	97
Re. Natural Gas Competition in Wisconsin	Witness	Wisconsin Community Action Association	Universal service	Wisconsin	96
Re. Baltimore Gas and Electric Merger	Witness	Maryland Office of Peoples Counsel	Low-income issues	Maryland	96
Re. Northern States Power Merger	Witness	Energy Cents Coalition	Low-income issues	Minnesota	96
Re. Public Service Co. of Colorado Merger	Witness	Colorado Energy Assistance Foundation	Low-income issues	Colorado	96
Re. Massachusetts Restructuring Regulations	Witness	Fisher, Sheehan & Colton	Low-income issues/energy efficiency	Massachusetts	96
Re. FERC Merger Guidelines	Witness	National Coalition of Low-Income Groups	Low-income interests in mergers	Washington D.C.	96
Re. Joseph Keliikuli III	Witness	Joseph Keliikuli III	Damages from lack of homestead	Honolulu	96
Re. Theresa Mahaulu	Witness	Theresa Mahaulu	Damages from lack of homestead	Honolulu	95
Re. Joseph Ching, Sr.	Witness	Re, Joseph Ching, Sr.	Damages from lack of homestead	Honolulu	95
Joseph Keaulana, Jr.	Witness	Joseph Keaulana, Jr.	Damages from lack of homestead	Honolulu	95

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CASE NAME	ROLE	CLIENT NAME	TOPIC	JURIS.	DATE
Re. Utility Allowances for Section 8 Housing	Witness	National Coalition of Low-Income Groups	Fair Market Rent Setting	Washington D.C.	95
Re. PGW Customer Service Tariff Revisions	Witness	Philadelphia Public Advocate	Credit and collection	Philadelphia	95
Re. Customer Responsibility Program	Witness	Philadelphia Public Advocate	Low-income rates	Philadelphia	95
Re. Houston Lighting and Power Co.	Witness	Gulf Coast Legal Services	Low-Income Rates	Texas	95
Re. Request for Modification of Winter Moratorium	Witness	Philadelphia Public Advocate	Credit and collection	Philadelphia	95
Re. Dept of Hawaii Homelands Trust Homestead Production	Witness	Native Hawaiian Legal Corporation	Prudence of trust management	Honolulu	94
Re. SNET Request for Modified Shutoff Procedures	Witness	Office of Consumer Counsel	Credit and collection	Connecticut	94
Re. Central Light and Power Co.	Witness	United Farm Workers	Low-income rates/DSM	Texas	94
Blackwell v. Philadelphia Electric Co.	Witness	Gloria Blackwell	Role of shutoff regulations	Penn. courts	94
U.S. West Request for Waiver of Rules	Witness	Wash. Util. & Transp. Comm'n Staff	Telecommunications regulation	Washington	94
Re. U.S. West Request for Full Toll Denial	Witness	Colorado Office of Consumer Counsel	Telecommunications regulation	Colorado	94
Washington Gas Light Company	Witness	Community Family Life Services	Low-income rates & energy efficiency	Washington D.C.	94
Clark v. Peterborough Electric Utility	Witness	Peterborough Community Legal Centre	Discrimination of tenant deposits	Ontario, Canada	94
Dorsey v. Housing Auth. of Baltimore	Witness	Baltimore Legal Aide	Public housing utility allowances	Federal district court	93
Penn Bell Telephone Co.	Witness	Penn. Utility Law Project	Low-income phone rates	Pennsylvania	93
Philadelphia Gas Works	Witness	Philadelphia Public Advocate	Low-income rates	Philadelphia	93
Central Maine Power Co.	Witness	Maine Assn Ind. Neighborhoods	Low-income rates	Maine	92
New England Telephone Company	Witness	Mass Attorney General	Low-income phone rates	Massachusetts	92
Philadelphia Gas Co.	Witness	Philadelphia Public Advocate	Low-income DSM	Philadelphia	92
Philadelphia Water Dept.	Witness	Philadelphia Public Advocate	Low-income rates	Philadelphia	92
Public Service Co. of Colorado	Witness	Land and Water Fund	Low-income DSM	Colorado	92
Sierra Pacific Power Co.	Witness	Washoe Legal Services	Low-income DSM	Nevada	92
Consumers Power Co.	Witness	Michigan Legal Services	Low-income rates	Michigan	92
Columbia Gas	Witness	Office of Consumer Advocate (OCA)	Energy Assurance Program	Pennsylvania	91
Mass. Elec. Co.	Witness	Mass Elec Co.	Percentage of Income Plan	Massachusetts	91

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CASE NAME	ROLE	CLIENT NAME	TOPIC	JURIS.	DATE
AT&T	Witness	TURN	Inter-LATA competition	California	91
Generic Investigation into Uncollectibles	Witness	Office of Consumer Advocate	Controlling uncollectibles	Pennsylvania	91
Union Heat Light & Power	Witness	Kentucky Legal Services (KLS)	Energy Assurance Program	Kentucky	90
Philadelphia Water	Witness	Philadelphia Public Advocate (PPA)	Controlling accounts receivable	Philadelphia	90
Philadelphia Gas Works	Witness	PPA	Controlling accounts receivable	Philadelphia	90
Mississippi Power Co.	Witness	Southeast Mississippi Legal Services Corp.	Formula ratemaking	Mississippi	90
Kentucky Power & Light	Witness	KLS	Energy Assurance Program	Kentucky	90
Philadelphia Electric Co.	Witness	PPA	Low-income rate program	Philadelphia	90
Montana Power Co.	Witness	Montana Ass'n of Human Res. Council Directors	Low-income rate proposals	Montana	90
Columbia Gas Co.	Witness	Office of Consumer Advocate	Energy Assurance Program	Pennsylvania	90
Philadelphia Gas Works	Witness	PPA	Energy Assurance Program	Philadelphia	89
Southwestern Bell Telephone Co.	Witness	SEMLSC	Formula ratemaking	Mississippi	90
Generic Investigation into Low-income Programs	Witness	Vermont State Department of Public Service	Low-income rate proposals	Vermont	89
Generic Investigation into Dmnd Side Management Measures	Consultant	Vermont DPS	Low-income conservation programs	Vermont	89
National Fuel Gas	Witness	Office of Consumer Advocate	Low-income fuel funds	Pennsylvania	89
Montana Power Co.	Witness	Human Resource Develop. Council District XI	Low-income conservation	Montana	88
Washington Water Power Co.	Witness	Idaho Legal Service Corp.	Rate base, rate design, cost-allocations	Idaho	88

APPENDIX B

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NATIONAL GRID - NII Comparison of Present and Proposed Rates Winter Season Residential Heating Rate R-3

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					Officience		Presen	<u>u R</u> ate	Propos	ed Rate	Difference	
	Preser	uLRate [®]	Propose	alBate	Revenues	Percent	With CGC	Revenues	With CGC	Revenues	With CGC I	Revenues
Sales	Base	Revenues	Base	Revenues	Base	Base		Revenues		Revenues	Revenues	Percent .
therm	Rate	Per therm	Rate	Per therm	Rate	Rate	Rate	Per therm	Rate	Per therm	Rate	Rate
0	\$14.03	NA	\$21.00	NΛ	\$6.97	49.68%	\$14.03	NA	\$21.00	NA	\$6.97	49.68%
10	16.50	1.650	23.71	2.371	7.21	43.70%	26.27	2.627	33.59	3.359	7.32	27.86%
25	20,20	0,808	27.77	1.111	7.57	37.47%	44.63	1,785	52.48	2.099	7.85	17.58%
50	26,37	0.527	34,53	0.691	· 8.17	30.97%	75,23	1.505	83,95	1.679	11.72	11.59%
75	32.53	0.434	41.30	0.551	8.76	26.93%	105.03	1.411	115.43	1.539	9,60	9.07%
100	38.70	0.387	48.06	0.481	9.36	24.19%	136.43	1.364	146.90	1.469	10.47	7.67%
125	43.35	0,347	53.16	0.425	9.81	22.63%	165.51	1.324	176.71	1.414	11.20	6.77%
150	48.00	0.320	58.26	0,308	10.26	21.38%	194.59	1,297	206.52	1.377	11.93	6.13%
175	52.64	0.301	63,35	0.362	10.71	20.34%	223.67	1.278	236.32	1.350	12.65	5.66%
200	57.29	0.286	68.45	0.342	11.16	19.48%	252.75	1.264	266.13	1.331	13.38	5.29%
225	61.94	0.275	73,55	0.327	11.61	18.74%	281.83	1.253	295.94	1.315	14.11	5.01%
250	66.59	0,266	78,65	0,315	12.06	18.11%	310.91	1.244	325.75	1,303	14,84	4,77%
275	71.23	0.259	83,74	0.305	12.51	17.56%	339.99	1,236	355,55	1.293	15.56	4.58%
300	75.80	0.253	88.84	0.296	12.96	17.08%	369.07	1.230	305.36	1.285	16.29	4.41%
350	85.18	0.243	99.04	0.283	13.86	16.27%	127,23	1.221	444.98	1.271	17.75	4.15%
400	94.47	0,236	109.23	0.273	14.76	15.62%	485.39	1.213	504.59	1.261	19,20	3.96%
450	103.77	0.231	119.43	0.265	15.66	15.09%	543.55	1.208	564.21	1,254	20,66	3.80%
500	113.06	0.226	129.62	0.259	16.56	14.65%	601.71	1,203	623.82	1.248	22.11	3.67%
750	159.54	0.213	180.60	0.241	21.06	13.20%	892.51	1.190	921.90	1.229	29.39	3.29%
1,000	206.01	0,206	231,57	0.232	25,56	12.41%	1,183.31	1,183	1,219,97	1.220	36.66	3.10%
Estimated Bill P	ercentile - 251	16										
60	28.83	0.481	37.24	0.621	8.40	29.15%	87.47	1.458	96.54	1.609	9.07	10.37%
Bill Percentile -	50%											
100	38.70	0.387	48.06	0.481	9.36	24,19%	136.43	1.364	146,90	1.469	10.47	7.67%
Estimated Bill P	ercentile - 759	%										
175	52.64	0.301	63.35	0.362	10,71	20.34%	223.67	1,278	236.32	1.350	12.65	5.66%
	Equiva	lent_DRY_Therm_	Eresent Rate Block	11-3				Ľ	toposed Raig Block	R-3		
			therm	Poto					thatm	Role		

returk and the true	enurgeen nous	11-12		,	modelines and a	
	Block				Block	
	therm	Rate	_		therm	Rate
Customer Charge	-	\$14.03	/Customer	Customer Charge	-	\$21.00 /Customer
First	100	\$0,2467	/therm	First	100	\$0,2706 /therm
Over	190	\$0,1859	/therm	Over	100	\$0.2039 /therm
TOTAL CGC & LDAC		\$0.9773	/therm	TOTAL CGC & LDAC		\$0,9804 /therm
CGC		\$0.9369		CGC		\$0.9480 /therm
LUAC		\$0,0404		LDAC		\$0,0404 /therm

NOTE: The present CGC rate reflects approved rates. All present rates are restated to bry therms to allow comparison with proposed rates (also in dry therms).

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Attachment PMN-RD-4-5 National Grid N11 DG 10-017 Page 4 of 24

NATIONAL GRID - NII Comparison of Present and Proposed Rates Summer Season Residential Heating Rate R-3

Present_Rate					Differ			nt.Bate		ed Rate		Difference	
			Propose		Revenues	Percent	With CGt	Revenues	With CGC	Revenues	With CGC		
Sales	Base	Revenues	Base	Revenues	Base	Base		Revenues		Revenues	Revenues	Percent	
therm	Rate	Pertherm	Rate	Per therm	Rate	Rate	Rate	Per therm	Kate	Per therm	Rate	Rate	
0	\$14.03	NΛ	\$21.00	NA	\$6.97	49.68%	\$14.03		\$21.00		\$6.97	49.689	
10	16.50	1.650	23.71	2.371	7.21	43.70%	23.10	2.310	30.35	3.035		31.409	
25	19,89	0,796	27.43	1.097	7,54	37.89%	36.39	1,456	44.04	1.761	7.64	21,009	
50	24.54	0,491	32.53	0.651	7,99	32.55%	57,54	1,151	65.74	1,315	8,20	14.255	
75	29.19	0.309	37.63	0.502	8.44	28.91%	78,69	1.049	87.44	1.166	8.76	11.139	
100	33.84	0.338	42.72	0.427	8.89	26.27%	99.83	0.458	1(19.14	1.091	9.31	9.339	
125	38.48	0,308	47.82	0,383	9,34	24,26%	120.90	0.968	130,85	1.047	9,87	8,165	
150	43.13	0.208	52.92	0.353	9,79	22.69%	142.13	0.948	152.55	1.017	10.42	7.33	
175	47.78	0.273	58.02	0.332	10.24	21.43%	163.27	0.933	174.25	0.996	10.98	6.729	
200	52,43	0.262	63.11	0.316	10.69	20.39%	184.42	0.922	195.95	0.900	11.53	6,25%	
225	57.07	0.254	68.21	0.303	11.14	19.52%	205.57	0.914	217.66	0.967	12.09	5.889	
250	61.72	0.247	73.31	0.293	11.59	18.77%	226.71	0.907	239,36	0.957	12.65	5,585	
275	66.37	0.241	78.41	0.205	12,04	18.14%	247.86	0,901	261.06	0,949	13.20	5.339	
300	71.02	0.237	83.50	0.278	12.49	17.50%	269.01	0.897	282.76	0.943	13.76	5,119	
350	80.31	0.229	93.70	0,268	13.39	16.67%	311.30	0,889	326.17	0.932	14.87	4.785	
400	89,61	0,224	103.89	0.260	14.29	15.95%	353.59	0.884	369,57	0.924	15.98	4,529	
450	98,90	0,220	114.09	0.254	15.19	15,36%	395.89	0.880	412.98	0.918	17,09	4.329	
500	108.20	0.216	124.28	0.249	16.09	14.87%	438,18	0.876	456.38	0.913	18,20	4.159	
750	154.67	0.206	175.26	0.234	20.59	13.31%	649.65	0.866	673.41	0,898	23.76	3.66%	
1,000	201.15	0.201	226.23	0.226	25.09	12.47%	861.12	0,861	890,43	0,890	29,32	3.40	
		•											
istimated Bill P	ercentile - 25%	6											
12	16.99	1.416	24.25	2.021	7.26	42.71%	24.91	2.076	32.22	2.685	7.31	29,349	
- Bill Percentile	50%												
20	18,96	0,948	26.41	1.321	7,45	39.27%	32.16	1.608	39,70	1,985	7.53	23.429	
	ercentile - 75%	5			•								
30	20.82	0.694	28.45	0.948	7.63	36.63%	40.62	1.354	40.30	1.613	7.75	19.09	
	Equival	ent.DRY.Therm.	Present Rate	R-3					Proposed Rate	R-3			
			Block						Block				
			therm	Rate					therm	Rate			
	Customer Char		-	\$14.03	/Cuslomer	с	ustomer Chr	rge	-	\$21.00	/Customer		
	First	-	20	\$0,2467		F	irst		20	\$0,2706	/therm		
	Over		20	\$0,1859	-		ver		20	\$0,2039			
	TUTAL CGC & I	.DAC		\$0,6600			OTAL CGC &	LDAC		\$0.6642	-		
	CGC			\$0.6196			6C			\$0.6238	•		
	LDAC			\$0.0404			DAC			\$0.0404	•		

NOTE: The present CGC rate reflects approved rates. All present rates are restated to Dry therms to allow comparison with proposed rates (also in dry therms).

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Bill Impacts.xls

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TOTAL CGC & LDAC

CGC

LDAC

NATIONAL GRID - NII Comparison of Present and Proposed Rates Winter Season Low Income Residential Heating Rate R-4

\$0.9884 /therm

\$0.9480 /therm

\$0,0404 /therm

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					Differ	chase	Lisse	nt.Bate	Cropes	ed Rate	Differ	ence
	Presen	LRate	Propose	al Rate	Revenues	Percent	With CGC	Revenues	With CG	With CGC Revenues		Revenues
Sales	Base	Revenues	Base	Revenues	Base	Base		Revenues		Revenues	Revenues	Percent
therm	Rale	Pertherm	Rate	Per therm	Itate	Rate	Rate	Per therm	Rate	Per therm	Rate	Rate
0	\$5.61	NΛ	\$8.40	NA	\$2.79	49.73%	\$5.61	NA	\$8.40	NA	\$2.79	49.73%
10	• 6.60	0.660	9,48	0.946	2.89	43.73%	16.37	1.637	19.37	1.937	3.00	18.30%
25	8,08	0,323	11.11	0.444	3.03	37.48%	32.51	1.300	35.82	1,433	3.31	10.17%
50	10.55	0.211	13.81	0.276	3.27	30,96%	59.41	1,108	63,23	1.265	3.82	6.43%
75	13.01	0,174	16.52	0.220	3.50	26.92%	86.31	1.151	90.65	1.209	4.33	5.02%
100	15,48	0.155	19.22	0.192	3.74	24.16%	113.21	1.132	118.06	1.181	4.05	4.28%
125	17.34	0.139	21.26	0,170	3.92	22.61%	139,50	1.116	144.83	1.158	5.31	3.80%
150	19,20	0.128	23.30	0.155	4.10	21.35%	165.80	1.105	171,56	1.144	5.77	3.48%
175	21.06	0,120	25.34	0.145	4.28	20.32%	192.09	1,098	198.31	1.133	6.22	3.24%
200	22.92	0.115	27,38	0,137	1.16	19.46%	Z18.38	1.092	225.06	1.125	6,68	3.06%
225	24.78	0.110	29.42	0.131	4.64	10.72%	244.67	1.087	251.81	1.119	7.14	2.92%
250	26.64	0,107	31.46	0.126	4.82	18,09%	270.97	1,084	278.56	1.114	7.60	2.80%
275	28.50	0,104	33,50	0,122	5.00	17.54%	297.26	1.081	305.31	1.110	8.05	2.7136
300	30.36	0.101	35.54	0.118	5.18	17.06%	323.55	1.079	332.06	1.107	8.51	2.63%
350	34.08	0.097	39.62	0.113	5.54	16.26%	376.14	1.075	305.56	1.102	9.43	2.51%
400	37.80	0.095	43.70	0,109	5.90	15.61%	428.72	1.072	439,06	1.098	10,34	2.41%
450	41.52	0.092	47.78	0,106	6.26	15.08%	401.31	1.070	492,56	1,095	11.26	2,34%
500	45.24	0.090	51.86	0.104	6.6Z	14.63%	533.89	1.068	546.06	1.092	12.17	2.20%
750	63.84	0.085	72.26	0.096	8.42	13.19%	796.82	1.062	813.56	1.085	16.75	2.10%
1,000	82.44	0.082	92.66	0.093	10.22	12.40%	1,059,74	1.060	1,081.06	1.081	21.32	2,01%
Estimated Bill P	orcontilo - 250	14										
70	12.52	0.179	15.97	0.228	3.46	27.60%	80.93	1.156	85.16	1.217	4.23	5.23%
Bill Percentile -												
100	15.48	0.155	19.22	0,192	3.74	24.16%	113.21	1.132	118.06	1,181	4.85	4,28%
Estimated Bill P					•							
150	19.20	0.128	23.30	0,155	4.10	21.35%	165.00	1.105	171.56	1.144	5.77	3.48%
	Equiva	ient.DRY.Therm.		11-4					Proposed Bats	: R-4		
			Block						Block	Data		
		-	therm	Rate			Customer Chr		therm	Rate	- /Customer	
	Customer Chai	Ea	•		/Customer			n Be	- 100			
	First		100	\$0.0987			First					
(Over		100	\$0,0744	/therm		Over		100	\$0,0816	/ merm	

TOTAL CGC & LDAC

cac

LDAC

NOTE: The present GGC rate reflects approved rates. All present rates are restated to Dry therms to allow comparison with proposed rates (also in dry therms).

\$0.9773 /therm

\$0.9369

\$0,0404

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Attachment PMN-RD-4-5 National Grid NH DG 10-017 Page 6 of 24

NATIONAL GRID - NH Comparison of Present and Proposed Rates Summer Season Low Income Residential Heating Rate R-4

					Differ	ençe	Prese	nt_Batg	Propos	ed.Rate	Diffe	
	Eresen	t Rate	Propose	ditate	Revenues	Percent	With CG	Revenues	With CGC	With CGC Revenues		Revenues
Sales	Base	Revenues	Base	Revenues	Base	Base		Revenues		Revenues	Revenues	Percent
therm	Rate	Per therm	Rate	Per therm	Rate	Rate	Rate	Per therm	Rate	Per therm	Rate	Rate
0	\$5.61	NΛ	\$8.40	NA	\$2.79	49.73%	\$5.61		\$8,40		\$2.79	49.73%
10	6.60	0,660	9.48	0.940	2.89	43.73%	13.20	1.320	16.12	1.612	2.93	22.18%
25	7.96	0.318	10.97	0,439	3.02	37.91%	24.46	0.978	27,58	1.103	3.12	12.76%
50	9,82	0.196	13,01	0.260	3.20	32.56%	42.81	0.856	46.22	0.924	3.41	7,96%
75	11.68	0.156	15.05	0.201	3,38	28.91%	61.17	0.816	64.87	0.865	3.69	6.04%
100	13.54	0.135	17.09	0.171	3.56	26.27%	79.53	0,795	83.51	0.835	3.98	5.00%
125	15.40	0,123	19,13	0,153	3.74	24.27%	97,89	0.783	102.16	0.817	4.26	4,36%
150	17.26	0.145	21.17	0.141	3.92	22.69%	116.25	0,775	120.80	0.805	4,55	3.91%
175	19,12	0.109	23.21	0.133	4.10	21.43%	134.61	0.769	139.45	0.797	4.84	3.59%
200	20.98	0.105	25.25	0.126	4.28	20.39%	152.97	0.765	158.09	0.790	5.12	3.35%
225	22.84	0.101	27.29	0.121	4.46	19.51%	171.33	0.761	176.74	0.785	5.41	3.16%
250	24,70	0,099	29.33	0,117	4.64	18,77%	189.69	0.759	195.30	0,782	5.69	3.00%
275	26.56	0.097	31.37	0.114	4.82	18.14%	208.05	0.757	214.03	0,778	5.98	2.87%
300	28.42	0.095	33.41	0.111	5.00	17.58%	226.41	0.755	232.67	0.776	6.26	2.77%
350	32.14	0.092	37.49	0,107	5.36	16.67%	263.13	0.752	269.96	0.771	6.84	2.60%
400	35.86	0,090	41.57	0.104	5.72	15.94%	299,84	0.750	307.25	0.768	7.41	2.47%
450	39,58	0.008	45.65	0.101	6.08	15.35%	336.56	0,748	344,54	0.766	7,98	z.37%
500	43,30	0.007	49.73	0.099	6.44	14.87%	373,20	0.747	381.83	0.764	8.55	2.29%
750	61.90	0.003	70.13	0.094	8,24	13.31%	556.87	0.742	568.28	0.758	11.41	2.05%
1,000	80.50	0.080	90,53	0.091	10,04	12.47%	740.47	0.740	754,73	0.755	14.26	1.93%
		÷										
Estimated Bill P	ercentile - 254	ía -										
14	6.99	0.499	9.91	0,708	2.92	41.81%	16.23	1.159	19.21	1.372	2.90	10.37%
Bill Percentile -	50%											
25	7.96	0.318	10.97	0,439	3.02	37.91%	24,46	0.978	27,58	1.103	3,12	12,76%
Estimated Bill F	ercentile - 75	ю			•							
40	9.07	0.227	12.20	0.305	3.12	34.44%	35.47	0.887	30.76	0.969	3.29	9.28%
	Equiva	lent,DRY.Therm.		R-4					Proposed Rate	R-4		
			Block						Block			
		-	therm	Rate	-				therm	Rate	-	
	Customer Char	ge	-		/Customer		ustomer Ch	urge	•		/Customer	
	First		20	\$0,0987			hst		20		/therm	
	Over		20	\$0.0744	-		ver		20		/therm	
	TOTAL CGC & I	LDAC		\$0.6600	/therm		OTAL CUC 8	LDAC			/therm	
	CGC			\$0,6196			GC				/therm	
1	LDAC			\$0.0404	westernel to Day		DAC			\$0,0404	/therm	

NOTE: The present CGC rate reflects approved rates. All present rates are restated to Dry therms to allow comparison with proposed rates (also in dry therms).

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APPENDIX C

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UTILITY CREDIT AND COLLECTIONS AND THE LOW-INCOME CONSUMER

Presentation to: Credit and Collections Working Group National Grid—New Hampshire

July 15, 2009

Critical findings (collections):

- When National Grid states that it is going to pursue more intense collections efforts directed toward payment-troubled customers, those more intense collections efforts will be disproportionately directed toward low-income customers. When the Company reports that it expects to disconnect an additional 2,845 R-3 customers per year for each of the next three years, it is reasonable to expect that a substantial proportion of those customers will be low-income customers who are disconnected because they cannot afford to pay their bills.
- While the R-4 rate discount addresses the concerns for participating customers, the R-4 discount reaches only 35% of the Company's income-eligible customer base. Compared to the highest R-4 participation rate experienced by the Company (4,925 customers), based on the number of customers identified by the Company for each community it serves, and the penetration of low-income persons (below 175% of Federal Poverty Level) in each community, the Company has at least 13,812 customers with income at or below 175% of the Federal Poverty Level.
- 175% of the Federal Poverty level does not adequately delineate the population that cannot afford their natural gas bills. The basic family needs budgets in New Hampshire do not simply exceed 175% of the Federal Poverty Level, they fall into a range around 250% of the Federal Poverty Level.
- Contrasted to this known adverse impact on low-income customers, the Company cannot provide data on any positive impact to the utility (and its ratepayers).
 - The Company does not maintain any evaluation or analysis that considers when it is <u>cost-effective</u> to disconnect service for nonpayment. (NHLA-3-14). The Company has not developed specific criteria by which to measure either the effectiveness of its collection activities (NHLA-3-23) or the cost-effectiveness of its collection activities (NHLA-3-25).
 - The Company was asked to provide any written study it had within its custody or control that assesses the extent to which the following activities <u>reduce</u>

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<u>residential bad debt</u>: (1) cash security deposits; (2) deferred payment agreements; (3) disconnections for nonpayment; (4) field collection; (5) call center collection calls; or (6) late payment charges. The Company could provide no such information. (NHLA-3-30).

- The Company was asked to provide any written study it had within its custody or control that assesses the extent to which the following activities <u>reduce</u> <u>residential arrears</u>: (1) cash security deposits; (2) deferred payment agreements; (3) disconnections for nonpayment; (4) field collection; (5) call center collection calls; or (6) late payment charges. The Company could provide no such information. (NHLA-3-31).
- When asked to provide any study within its custody or control regarding the relationship between the rate at which a utility issues disconnect notices and the reduction in bad debt, the Company could not provide any such analysis. (NHLA-3-27).
- The Company could not provide information that assesses the relationship between the rate at which a utility issues disconnect notices and the control of arrears. (NHLA-3-28).
- The Company could not provide information that assesses the relationship between the rate at which a utility issues disconnect notices and any increase in residential payments. (NHLA-3-29).
- > The disconnection of service has a serious long-term impact on the affected customer.
 - The Company is collecting its smaller arrears rather than its larger arrears. As examples, while 40% of the accounts that were 30 days in arrears in April 2006 were still in arrears in June, 52% of the dollars were. While 32% of the accounts that were in arrears in August 2007 were still in arrears in October 2007, 50% of the dollars were.
 - Disconnections are not routinely followed by reconnections. During the 30month time period January 2006 through May 2008, only 30% of all disconnected customers were reconnected.

Recommendations:

#1. Increase penetration of Budget Billing.

National Grid should increase the penetration of Budget Billing as an arrearage prevention technique. Levelized Budget Billing plans help customers avoid the "peak" in utility bills that

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often accompanies winter heating load. Increasing the use of Budget Billing could occur in three ways:

- First, National Grid should remove barriers to participation in Budget Billing programs. A common barrier, for example, is the requirement that a customer not be in arrears at the time he or she enters the Budget Billing program. Indeed, Budget Billing may be most beneficial to those customers that *are* in arrears. It is the fact of arrearages that evidences the need to address the high winter bills with which to begin.
- Second, National Grid should use Budget Billing to incentivize payment behavior. Many utilities, for example, do not allow customers to enter Budget Billing during the winter months. An alternative decision-rule might be that a customer could enter a Budget Billing program during cold weather months if the account is current immediately before the first cold weather month (or if certain minimum payments have been made) (*e.g.*, if you paid 75% of your winter bills to date, you will be allowed to levelize the remainder of your winter bills over a longer period of time).
 - Note the Tennessee approach that makes Budget Billing <u>mandatory</u> for natural gas accounts in arrears during the winter months. Tennessee approach resulted in substantial reduction in shutoffs and improved collections during time of sharply increasing gas prices.
- Third, National Grid should incentivize the use of Budget Billing. For example, the offer of a 10-month Budget Billing plan, allowing a customer to "skip" making payments in two months of the customer's choice, might be attractive to customers who do not wish to make utility payments in months with high amounts of competing expenses (*e.g.*, holiday expenses, back-to-school expenses).

#2. Seasonal Budget Billing as an arrearage management technique.

In addition to incentivizing (as well as removing barriers to) participation in Budget Billing, National Grid should offer an alternative Budget Billing option. Experience counsels that many low-income natural gas customers do not wish to enter into Budget Billing that significantly increases their warm weather month bills. Even though the whole purpose of Budget Billing is to time-shift part of a bill, the realization that the elimination of the high winter bill <u>also</u> means the corresponding elimination of the low summer bill (assuming a natural gas customer, that is) creates a barrier to Budget Billing enrollment.

Given this recognition, National Grid should offer something other than an <u>annual</u> Budget Billing plan. A "seasonal" Budget Billing plan would help guard against the high winter bills while also preserving the low-cost summer months for the customer. The data clearly shows that many customers in arrears are simply engaging in short-term time-shifting of high winter bills without the structure of a Budget Billing plan. To allow customers to move some of that time-- Colton Page 116 - shifting *forward* rather than having it merely be *backward* would be consistent with the desire to keep bills paid, and the demonstrated inability to make that happen in the high cost winter months.

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To move some of those January through March dollars forward to the lower cost months immediately preceding winter should help lower arrears without running afoul of the customers' desires to retain their low-cost summer bills.

#3. Understanding "no reconnect" accounts.

National Grid should develop a better understanding of its <u>disconnected</u> accounts that do not <u>reconnect</u> to the system. There is a substantial population of accounts that do not appear to reconnect to the utility system after service has been disconnected for nonpayment.

National Grid should inquire into what happens when an account is not reconnected. Is the account reconnected in a different name? Does the customer go without utility service? Does the disconnected customer change residences and be replaced with another customer at the disconnected service address? Is the home completely abandoned? The utility need not track the specific customer in order to determine what happens at the service address.

Finally, National Grid should emulate Pennsylvania is requiring utilities to engage in a prewinter termination survey. This survey involves checking each service address that has had service disconnected but not reconnected since the beginning of the last winter heating season²⁰ to determine whether someone is living at that service address, whether that resident is taking service unlawfully, whether the resident remains without utility service entering the winter heating season, or whether the housing unit has been abandoned. This winter survey occurs immediately before the start of each winter heating season.

#4. Targeted EITC outreach as an arrears management technique.

National Grid should engage in outreach for the federal Earned Income Tax Credit (EITC) targeted specifically to winter month payment-troubled customers. Little question exists but that high winter bills pose an affordability problem for low-income National Grid customers.

Targeting EITC outreach to payment-troubled customers meeting a minimum level of arrears would help address this problem. If a "trigger" amount for such outreach is appropriately set, it is likely that the account in arrears would be low-income. There is a significant increase in average past-due balances for the total residential customer base during the winter heating season. If EITC outreach is targeted to accounts with an average arrears noticeably higher than

²⁰ One need not consider whether service was reconnected to the same customer, for purposes of the winter survey, but only what happens with the service at a particular address where service had been terminated for nonpayment.
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the total residential average (e.g., \$300), it is more likely than not that the account will be low-income.

Engaging in EITC outreach targeted to customers in arrears is likely to have a positive impact for both the customers and the company. The average EITC benefit nationwide is \$2,000. Onequarter of <u>all</u> households that receive an EITC benefit use that benefit to pay a past-due utility bill. The proportion of those households that are in arrears that use the EITC to help pay their bills is thus likely to be much higher. To the extent that customers are substantially in arrears during the months of January and/or February, assisting them to claim any EITC benefits to which they are entitled would be a financial benefit.

#5. Incentivize/decrease barriers to deferred payment arrangements.

National Grid should focus increased attention on enrolling customers with arrears in deferred payment arrangements. A fraction of residential customers in arrears enroll in a deferred payment arrangement as a mechanism to help retire those arrears. Not all arrears *should* be subject to payment plans, of course. Accounts that have either small (or short-term) arrears do not necessarily merit deferred payments.

At a minimum, additional inquiry should be made into why low-income customers in substantial arrears are not entering into deferred payment arrangements. The reason for this phenomenon might be that barriers exist that affirmatively impede such payment plans. Such barriers might include downpayment requirements that are too high or payment plan terms that are too short (making monthly payments impossible to meet). The reason might be that the higher arrearage amounts for low-income customers are more likely to have resulted in a shutoff and that, accordingly, payment plan pre-requisites involve the payment of reconnect fees and/or deposits that serve as barriers to entering into a deferred payment plan for the underlying arrears.

The remedy for the failure to enroll low-income customers in arrears in deferred payment plan agreements depends, of course, on the underlying cause for the failure. Smaller downpayments and longer terms may well be merited. One remedy, also, might address those arrears that have escalated beyond a range that might involve any reasonable opportunity to retire. In those instances, National Grid should consider entering into payment plans for less than the entire outstanding arrears. If a low-income customer owes \$2,000, in other words, the utility might reasonably enter into a payment plan for \$600.²¹

National Grid should create incentives for a low-income customer to enter into a deferred payment plan for some portion of a large and unretirable arrears. For example, an agreement to waive late payment fees on the portion of the arrears not subject to the payment plan so long as

²¹ In this regard, one can be mindful of the baseball team that is down three-games-to-none in a seven game League Championship Series. The team is well-served by the attitude that they do not need to "win four games" to win the series. They need only win "tomorrow." Taking it "one game at a time" may be a cliché, but it is accurate nonetheless. That first \$600 in arrears is the equivalent to Game Four in that seven game series.

the payment plan is current might be an effective incentive. On an arrears that is large enough to qualify for such a split payment plan, waiving such fees could deliver real dollars of benefit to the customer.

#6. Sharpen the criteria for issuing notices of disconnection for nonpayment.

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National Grid should sharpen the criteria it uses for issuing notices of disconnection of service for nonpayment. The utility appears to send far more notices warning of the disconnection of service for nonpayment than it is either willing or able to actually implement. When a utility consistently threatens the disconnection of service if payment of an outstanding bill is not made by a date certain, with no follow-through on that warning, customers eventually learn that the notices of disconnection are a false threat that can be safely ignored without consequence.

National Grid issues a high percentage of "false" warnings of an impending disconnection for nonpayment each month. The problem with issuing disconnect notices that do not lead to the disconnection of service is that the notices eventually destroy the efficacy of their "message" that "consequences will flow if you do not make a payment." Indeed, in many ways, "over-noticing" customers may well lead to an <u>increase</u> in the number of ultimate service disconnections. Moreover, a series of shutoff notices that do <u>not</u> lead to such disconnections lead some customers to ignore notices that they should not. There is no way for a customer to tell the difference between a notice issued when the utility "really <u>means</u> it, this time" from one that is not issued under such circumstances.

The problem was addressed by the courts in an Ohio case involving Columbia Gas. In referring to a "flood of final notices" that was not followed up by an actual service disconnection for nonpayment, an Ohio federal judge referred to the company's practice of "a wolf kind of notice which does not conform to the constitutional requirements that notice be truly informative and be given at a meaningful time." Quite aside from the legal implications, the over-issuance of disconnect notices impedes the collection efficacy of these notices. National Grid should investigate its ability to better define the circumstances under which a service disconnection is likely to occur and restrict the issuance of disconnect notices to customers falling within those circumstances.

#7. Create a dedicated Low-Income Customer Assistance Unit.

An early identification program directed toward payment-troubled natural gas customers has as its fundamental objective not merely the recognition of a payment troubled customer, but the recognition of certain attributes of that customer useful for purposes of targeting an appropriate utility response. An early identification program builds on a customer segmentation analysis, which in turn, counsels that not all instances of nonpayment could, or should, be treated alike. A prompt and effective resolution of potential payment troubles depends upon appropriately

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characterizing the nature of the difficulty, the ability of the customer to respond, and thus the appropriate utility response.

Accordingly, National Grid should create a dedicated staff unit specifically assigned the responsibility of addressing the customer service and bill payment needs of low-income customers. The dedicated staff unit should be trained as specialists in understanding and addressing the unique needs of low-income customers. These specialized staff can generate additional resources to be applied to low-income bills to the advantage of both the low-income customer base and the utility.

A dedicated low-income customer assistance unit (LICAU) would accomplish the following three objectives:

- Generating additional external resources in response to understanding the needs of, and opportunities available to, low-income customers;
- Reducing potential collection initiatives among low-income customers through an understanding of low-income circumstances; and
- Generating increased payment success through an understanding of low-income circumstances.

An LICAU would consist of the following action steps on the part of National Grid:

- Implementation of an "early identification program" (EIP). The efficacy of a Low-Income Customer Assistance Unit depends upon the ability of the utility to identify its low-income customers. Utilities frequently note that "we don't now who our low-income customers are." While that may be true, it <u>need</u> not be true. Responding to payment troubles of residential customers can be enhanced through a process of specialized training for customer service representatives. The representatives benefiting from such education include any individual that might have personal contact with a customer on behalf of the utility. Early identification involves more than noticing an arrears when it appears on a customer's bill. It involves "hearing" indicators of financial distress on the part of the customer during normal day-to-day customer contacts.
- The second component of an Early Identification Program is to archive objective information in the customer service system indicating whether a customer received some type of low-income assistance. Receipt of a pledge from a LIHEAP agency or other energy assistance agency would indicate low-income status. Participation in the R-4 program would indicate low-income status. The customer service system should mark certain transactions as "high priority," and move those high priority items to a "red flag" basis and to the top of the customer service screen. Through such a

process, the customer service representative can identify a customer as a low-income customer.

- Creation of a process of special "skills-based routing" for low-income customers is the third step. Having identified a low-income customer, the next step in implementing a LICAU would be the transfer of customers to staff having received specialized training in responding to low-income payment troubles. The specialized skills-based training would not only allow these dedicated staff to identify particular problems, and to respond in a culturally-appropriate way, but would involve knowing what assistance might be available to respond to the problem.
- Finally, charging LICAU staff with the responsibility of developing the National Grid presence within the network of low-income service providers, including both energy and non-energy assistance providers. The "best" way to respond to an inability to pay by a low-income customer is not necessarily through energy assistance. The LICAU staff should know when, where, how and through whom to access such assistance.

Roger Colton Fisher, Sheehan & Colton Public Finance and General Economics

> ON BEHALF OF: New Hampshire Legal Assistance

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APPENDIX D

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USING EARNED INCOME TAX CREDIT AS "ENERGY ASSISTANCE" (PREPARED FOR TACOMA PUBLIC UTILITIES: JUNE 2009)

Problem Statement #2

Low-income customers have insufficient resources to pay their utility bill. As a result, they incur arrears, experience collections, shoulder additional fees, and sometimes face the disconnection of service for nonpayment. This process of collection is expensive to both the utility and to the customer. The federal government provides assistance designed to help pull people out of poverty. In an overwhelming proportion of cases, those dollars of federal benefit are used by households to pay past-due bills. Much of this federal aid, however, is left on the table, being available but unclaimed.

Strategy

Increase energy assistance to moderately low-income "working poor."

Objectives

1. Generate additional external financial resources specifically for payment-troubled customers.

2. Increase arrears retirement within low-income customer base at times of high arrears.

Tactics

1. Provide EITC outreach targeted specifically to paymenttroubled customers.

 Fund EITC free tax preparation clinics by local nonprofit agencies. Convene local business Task Force to generate matching funding for free tax preparation clinics. Designed to free EITC recipients from paid tax preparers and Refund Anticipation Loans (RALs).

- 3. Convene local business roundtable designed to increase EITC claims by 5% in Pierce County.
- Add EITC outreach to existing utility processes. Add an EITC page to the TPU web site. Add EITC outreach message to "hold message" on TPU phone system.

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DISCUSSION IN SUPPORT OF USING EARNED INCOME TAX CREDIT (EITC) AS "ENERGY ASSISTANCE"

Little question exists but that low-income households frequently do not have sufficient household resources to consistently pay their utility bills in a full and timely fashion. Bill payment assistance resources are available to low-income customers through the federal Low-Income Home Energy Assistance Program (LIHEAP). LIHEAP, however, is constrained to paying only home energy bills. Moreover, LIHEAP is often budget constrained, thus limiting the time it is available, the population defined to be eligible for assistance, and the level of grants that are provided.

Tacoma Public Utilities can redress many of these shortcomings by LIHEAP by targeting specific programs to assist the working poor in Pierce County. There can be little question today but that the inability to pay for home utility bills, whether they be water/sewer, energy or trash, is increasingly reaching into the middle class.

RECOGNIZING THE INABILITY-TO-PAY IN THE MIDDLE CLASS

The Table below shows the basic family needs budget for households living in Tacoma for a variety of family sizes and types. The data considers the basic needs budget for households ranging from a two-person household (one parent/one-child: 1P1C) to a four-person household with two parents and two children (2P2C). The table shows how the budget required to meet basic family needs now reaches 250% of the Federal Poverty Level and more.

Moreover, the Table documents how the gross household income is not necessarily the best measure of the low-income status of a household. While, for example, a two-parent/two-child family has a basic family need budget of more than \$14,000 higher than a one-parent/one-child family, the ratio of income to the Federal Poverty Level for the larger household is actually somewhat less (248% vs. 269%).

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Family Type	Housing	Food	Childcare	Transport- ation	Health care	Other Necessities	Taxes	Monthly Total	Annual Total	Federal Poverty Level (2007)
1P1C	\$845	\$317	\$757	\$339	\$220	\$279	\$316	\$3,074	\$36,883	269%
1P2C	\$845	\$465	\$1,211	\$339	\$322	\$315	\$319	\$3,816	\$45,786	267%
2P1C	\$845	\$514	\$757	\$482	\$294	\$327	\$335	\$3,554	\$42,642	248%
2P2C	\$845	\$643	\$1,211	\$482	\$396	\$358	\$331	\$4,266	\$51,194	248%
Economic	Policy Institute	: (May 2009)							

THE *IM*PROPRIETY OF RATE DISCOUNTS FOR THE MIDDLE CLASS

Despite the inadequacy of income for these high-range poverty households in Tacoma to meet their basic family needs budget, it is not appropriate for Tacoma Public Utilities to offer rate discounts in response to their income shortfall. The general standard for energy affordability is 6% of income. If home energy bills are less than or equal to this benchmark, they are considered "affordable" from the utility's perspective. Water/sewer bills are considered to be "affordable" if they fall within a range of 2% of household income.

Given these two benchmarks for affordability, home energy bills in Tacoma would be <u>un</u>affordable only if they exceed a range of \$2,213 (1-parent/1-child) to nearly \$3,100 (2-parents/2-children). Water/sewer bills would be unaffordable only if they fell within a range of roughly \$750 (1-parent/1-child) to more than \$1,000 (2-parent/2-children). Typical TPU bills do not fall within these bill ranges, particularly for low-income households.

USING THE EARNED INCOME TAX CREDIT (EITC) AS UTILITY BILL PAYMENT ASSISTANCE

Despite the conclusion that TPU should not extend its rate discounts to serve the middle class, there are specific steps that TPU can and should take to respond to the lack of sufficient household resources to meet basic home energy needs.²² Even should the "unaffordability" relate primarily to housing costs, for example, those unaffordable household expenses may manifest themselves in unpaid utility bills as households make trade-offs on which bills they will pay in any given month.

Helping income-eligible households claim their entire federal Earned Income Tax Credit (EITC) is one initiative that TPU should pursue for its high range poverty households. The EITC is the nation's primary anti-poverty program. In Pierce County (WA) alone:

- In 2006,²³ 46,704 households claimed a total of \$83,939,215 in Federal EITC credits (an average credit of \$1,797);
- In 2005, 45,907 households claimed a total of \$80,471,821 in Federal EITC credits (an average credit of \$1,753);
- In 2004, 45,630 households claimed a total of \$77,955,414 in Federal EITC credits (an average credit of \$1,708);
- In 2003, 43,977 households claimed a total of \$73,255,919 in Federal EITC credits (an average credit of \$1,666).

The EITC tends to serve more moderate income populations. According to the Center on Budget and Policy Priorities (CBPP), the Washington D.C.-based organization operating the national EITC Outreach Campaign, working families with children that have annual incomes below about

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²² For ease of reference, this section refers to "energy" needs. By this reference, the term "energy needs" is intended to include all five utility services offered by TPU.

²³ 2006 is the last year for which data is available.

\$34,000 to \$41,000 (depending on marital status and the number of children in the family) generally are eligible for the EITC. Also, poor workers without children that have incomes below about \$13,000 (\$16,000 for a married couple) can receive a very small EITC.

THE BENEFITS TO TPU FROM THE EITC

EITC claims directly benefit TPU. According to a study of EITC recipients in New York, performed by faculty at Colgate University, 40% of the households reporting using their EITC to pay bills used those benefits to pay utility bills, a higher percentage than those using the EITC to pay for rent (31%), credit cards (28%), car payments (22%), and groceries (21%).²⁴ More than two-thirds of EITC recipients use their credits to pay for basic needs, while half use their credits to pay off a debt. Another study found that 65% of EITC recipients have a "making ends meet" use for their credits, with the payment of utility bills and rent the most important uses, followed by the purchase of food and clothing.²⁵

Moreover, an Edison Electric Institute (EEI) staffperson reported that a 1994 study of EITC recipients in New Jersey found that one-third of all EITC recipients used their EITC to pay pastdue bills, and one-quarter of all recipients used their EITC benefits to pay past-due *utility* bills.²⁶

One benefit of the EITC is that it can reach beyond merely serving the objective of helping lowincome customers pay their home utility bills. One study in San Antonio, for example, found that every \$1 in EITC benefits received in that city generated \$1.58 in local economic activity. The San Antonio study found further that every \$37,000 in local economic activity would generate one additional permanent job. According to the Brooking Institute, the EITC generates a concentrated infusion into local economies, in many cities, more than \$1.0 million per square mile. One study in Cuyahoga County (OH) found that the EITC benefits claimed in the early months of 2003 exceeded all the wages and benefits paid in the local hotel industry in that quarter.

ACTION STEPS BY TACOMA PUBLIC UTILITIES REGARDING EITC CLAIMS

TPU can generate substantial new "energy assistance" benefits for its high-range poverty households by supporting efforts to promote the Earned Income Tax Credit. The view frequently articulated is that few jurisdictions exist that cannot, with a reasonable amount of effort, increase the penetration of income-eligible households claiming their EITC by at least five percent. In Pierce County, alone, a five percent (5%) increase in the number of EITC claims would result in more than 2,300 households newly receiving the EITC, generating an additional \$4.2 million in benefits flowing to Pierce County.

Given these benefits, TPU should take the following action steps:

²⁴ Simpson, et al. (October 2006). The Efficacy of the EITC: Evidence from Madison County (New York), Colgate University Department of Economics.

²⁵ Timothy Smeeding, et al. (December 2000). The EITC: Expectation, Knowledge, Use and Economic and Social Mobility," National Tax Journal, 53(4): 1187, 1198. Smeeding is with the Center for Policy Research, The Maxwell School, Syracuse University (NY).

²⁶ Since this data is based on generic EITC outreach directed to the population as a whole, should outreach be focused on payment-troubled customers, it would be expected that these percentages would increase.

- TPU should direct targeted EITC outreach to customers in arrears. Indeed, combining the "Early Identification Program" recommended elsewhere in this report, TPU could direct EITC outreach to payment-troubled customers that the utility has previously identified as being low-income.
- TPU should fund outreach efforts targeted toward populations that under-utilize the EITC. Rather than doing generic outreach campaigns, TPU could help fund "gap-filling" outreach. According to the national EITC Outreach Campaign, women fill a disproportionate number of part-time and low-wage jobs. Newly employed women, in particular, are less likely to file for EITC benefits. Moreover, Hispanic parents are much less likely to file for EITC benefits. An Urban Institute study found that only 32% of low-income Hispanic parents knew about the EITC, and only 20% of such parents claimed their EITC. TPU should direct funding to specific community-based organizations that can document their ability to reach these under-served populations.
- TPU should refer payment-troubled customers to free tax preparation clinics (called Volunteer Income Tax Assistance, or "VITA," sites). Customers who contact the utility during the tax preparation season who have received energy assistance in the past, are currently receiving the low-income discount, or have otherwise been identified as "low-income" through the proposed Early Identification Program, can be directed toward VITA sites in addition to being directed toward energy assistance agencies. Information on VITA sites can be included with shutoff notices, with written confirmation of payment plan terms, or in other collection initiatives. According to EITC outreach specialists, the primary problem with VITA sites is that not enough people use them. Most people do not know about VITA sites; those that do often find it difficult to find them. Unfortunately, the local IRS telephone assistance lines through which people might obtain information on the location of VITA sites are often busy.
- TPU should add EITC outreach to its existing contacts with its customers. Adding an EITC information message during the call-center hold time would be helpful. Adding EITC outreach materials to the TPU web site would reach a different population. Including EITC outreach with shutoff notices would provide an opportunity for payment-troubled customers to seek additional financial resources.
- In addition to EITC outreach efforts, TPU should financially support the provision of free tax preparation clinics designed to help income-eligible households claim their EITC. In Pierce County, of the 46,704 low-income households claiming the EITC in 2006, 28,241 (61%) used paid tax preparers, while 13,248 (29%) received "tax anticipation loans." In these circumstances, the cost of the tax preparation, according to one Brooking Institution study, is \$150, with an additional cost of \$130 for the Refund Anticipation Loan (RAL), \$280 total. The Brookings Institution found that low-income households receiving such Refund Anticipation Loans pay an annual percentage rate of 171% in interest. These two processes (i.e., the use of paid tax preparers and the use of RALs) pulled \$6.0 million out of the low-income community in Tacoma in 2006 alone. Efforts providing on-site mobile free tax preparation in Pierce County have been extraordinarily successful through SSOS.

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Finally, while this report recommends specific action steps for TPU to take as the local utility, not all steps need be funded and advanced by TPU. Increasing the number of EITC claims in Pierce County would benefit the community as a whole, including the business community. Using the 1.58x multiplier effect described above, and the previous research documenting that each \$37,000 in benefits supports one fulltime job, a 5% increase in EITC claims in Pierce County would generate \$6.7 million in economic activity in Tacoma and 180 new fulltime jobs. Accordingly, TPU should convene a business roundtable in Tacoma, along with appropriate leadership within the nonprofit community, to develop and implement plans specific to Pierce County for EITC outreach above and beyond that outreach that TPU directs to its own low-income, payment-troubled population.

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