Q. Describe the billing determinants of what would be, in NLH's opinion, a representative small, medium, and large customer in rate class 2.2D. If necessary to provide an accurate reflection of the customers in 2.2D, further sub-divide the small, medium, and large groups into high and low load factors. Calculate for each representative customer, the annual electric bills for 2004, 2005, and 2006 under NLH's proposed rates.

A. See attached tables. Some examples of high and low load customers are included however there were no customers with high consumption and low load factor. Forfeited discounts are calculated based on a ratio of forfeited discounts to discounts based on 2001 actuals.

Rate 2.2 Isolated General Service 10 kW and over Current Rate

Basic Customer Charge	$18.10/month
Energy Charge – First 700 kilowatt hours per month	9.389¢/kWh
– All kWh over 700 kilowatt hours per month	20.035¢/kWh

Rate 2.2 Isolated General Service 10 kW and over Proposed 2004

Basic Customer Charge	$25.96/month
Demand Charge	$8.10/kW
Energy Charge – First 150 kWh/kW of billing demand	11.840¢/kWh
– All excess kWh	23.36¢/kWh

Rate 2.2 Isolated General Service 10 kW and over Proposed 2005

Basic Customer Charge	$25.96/month
Demand Charge	$10.38/kW
Energy Charge – First 150 kWh/kW of billing demand	13.610¢/kWh
– All excess kWh	20.100¢/kWh

Rate 2.2 Isolated General Service 10 kW and over Proposed 2006

Basic Customer Charge	$25.96/month
Demand Charge	$12.70/kW
Energy Charge – All kilowatt hours per month	16.110¢/kWh

Rate 2.2D Small Customer with low load factor

Month	kWhs	First Block kWhs	Second Block kWhs	Basic Cust Charge @ Current Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Current Rates
01	1960	700	1260	$18.10	$65.72	$252.44	$5.04	$0.00	$331.22
02	2160	700	1460	18.10	65.72	292.51	5.65	5.05	375.74
03	2200	700	1500	18.10	65.72	300.53	5.77	5.65	384.22
04	1960	700	1260	18.10	65.72	252.44	5.04	5.77	336.99
05	2040	700	1340	18.10	65.72	268.47	5.28	5.05	352.05
06	2200	700	1500	18.10	65.72	300.53	5.77	5.28	383.86
07	1640	700	940	18.10	65.72	188.33	4.08	5.78	273.85
08	2120	700	1420	18.10	65.72	284.50	5.52	4.08	366.87
09	2040	700	1340	18.10	65.72	268.47	5.28	5.52	352.53
10	2000	700	1300	18.10	65.72	260.46	5.16	5.29	344.40
11	2440	700	1740	18.10	65.72	348.61	6.49	5.16	431.10
12	1920	700	1220	18.10	65.72	244.43	4.92	6.49	329.82
	24680								$4,262.65

Month	kWhs	First Block kWhs	Second Block kWhs	Demand kW	Basic Cust Charge @ Proposed 2004 Rates	First Block kWh Charge	Second Block kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2004 Rates
01	1960	1920	40	12.8	$25.96	$227.33	$9.34	$103.68	$5.49	$0.00	$360.82
02	2160	2160	0	18.4	25.96	255.74	0.00	149.04	6.46	5.78	430.06
03	2200	2200	0	16.8	25.96	260.48	0.00	136.08	6.34	6.20	422.38
04	1960	1960	0	16.0	25.96	232.06	0.00	129.60	5.81	6.65	388.46
05	2040	2040	0	14.0	25.96	241.54	0.00	113.40	5.71	5.46	380.64
06	2200	2200	0	16.0	25.96	260.48	0.00	129.60	6.24	5.72	415.52
07	1640	1640	0	15.2	25.96	194.18	0.00	123.12	5.15	7.29	345.39
08	2120	2120	0	16.0	25.96	251.01	0.00	129.60	6.10	4.50	404.97
09	2040	840	1200	5.6	25.96	99.46	280.32	45.36	6.77	7.07	451.40
10	2000	2000	0	16.8	25.96	236.80	0.00	136.08	5.98	6.13	398.98
11	2440	2280	160	15.2	25.96	269.95	37.38	123.12	6.85	5.44	455.00
12	1920	1920	0	16.8	25.96	227.33	0.00	136.08	5.84	7.70	391.23
	24680										$4,844.85

Month	kWhs	First Block kWhs	Second Block kWhs	Demand kW	Basic Cust Charge @ Proposed 2005 Rates	First Block kWh Charge	Second Block kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2005 Rates
01	1960	1920	40	12.8	$25.96	$261.31	$8.04	$132.86	$6.42	$0.00	$421.75
02	2160	2160	0	18.4	25.96	293.98	0.00	190.99	7.66	6.85	510.12
03	2200	2200	0	16.8	25.96	299.42	0.00	174.38	7.50	7.34	499.60
04	1960	1960	0	16.0	25.96	266.76	0.00	166.08	6.88	7.87	459.78
05	2040	2040	0	14.0	25.96	277.64	0.00	145.32	6.73	6.43	448.62
06	2200	2200	0	16.0	25.96	299.42	0.00	166.08	7.37	6.75	490.84
07	1640	1640	0	15.2	25.96	223.20	0.00	157.78	6.10	8.64	409.47
08	2120	2120	0	16.0	25.96	288.53	0.00	166.08	7.21	5.32	478.69
09	2040	840	1200	5.6	25.96	114.32	241.20	58.13	6.59	6.89	439.91
10	2000	2000	0	16.8	25.96	272.20	0.00	174.38	7.09	7.26	472.71
11	2440	2280	160	15.2	25.96	310.31	32.16	157.78	7.89	6.27	524.59
12	1920	1920	0	16.8	25.96	261.31	0.00	174.38	6.92	9.13	463.86
	24680										$5,619.94

Month	kWhs	Demand kW	Basic Cust Charge @ Proposed 2006 Rates	kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2006 Rates
01	1960	12.8	$25.96	$315.76	$162.56	$7.56	$0.00	$496.71
02	2160	18.4	25.96	347.98	233.68	9.11	8.15	606.65
03	2200	16.8	25.96	354.42	213.36	8.91	8.71	593.55
04	1960	16.0	25.96	315.76	203.20	8.17	9.34	546.09
05	2040	14.0	25.96	328.64	177.80	7.99	7.63	532.05
06	2200	16.0	25.96	354.42	203.20	8.75	8.02	582.84
07	1640	15.2	25.96	264.20	193.04	7.25	10.26	486.21
08	2120	16.0	25.96	341.53	203.20	8.56	6.32	568.45
09	2040	5.6	25.96	328.64	71.12	6.39	6.67	426.01
10	2000	16.8	25.96	322.20	213.36	8.42	8.62	561.72
11	2440	15.2	25.96	393.08	193.04	9.18	7.30	610.20
12	1920	16.8	25.96	309.31	213.36	8.23	10.85	551.25
	24680							$6,561.73

Rate 2.2D Small Customer with high load factor

Month	kWhs	First Block kWhs	Second Block kWhs	Basic Cust Charge @ Current Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Current Rates
02	4920	700	4220	18.10	65.72	845.48	13.94	0.00	915.36
03	4960	700	4260	18.10	65.72	853.49	14.06	0.00	923.25
04	4160	700	3460	18.10	65.72	693.21	11.66	0.00	765.38
05	4320	700	3620	18.10	65.72	725.27	12.14	11.65	808.61
06	3600	700	2900	18.10	65.72	581.02	9.97	12.14	667.00
07	3400	700	2700	18.10	65.72	540.95	9.37	0.00	615.40
08	3360	700	2660	18.10	65.72	532.93	9.25	0.00	607.50
09	3320	700	2620	18.10	65.72	524.92	9.13	0.00	599.61
10	3520	700	2820	18.10	65.72	564.99	9.73	9.13	648.21
11	3520	700	2820	18.10	65.72	564.99	9.73	9.73	648.81
12	4480	700	3780	18.10	65.72	757.32	12.62	9.72	838.25
	43560								$8,037.38

Month	kWhs	First Block kWhs	Second Block kWhs	Demand kW	Basic Cust Charge @ Proposed 2004 Rates	First Block kWh Charge	Second Block kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2004 Rates
02	4920	1680	3240	11.2	25.96	198.91	756.86	90.72	16.09	0.00	1,056.37
03	4960	1560	3400	10.4	25.96	184.70	794.24	84.24	16.34	0.00	1,072.81
04	4160	1440	2720	9.6	25.96	170.50	635.39	77.76	13.64	0.00	895.96
05	4320	1440	2880	9.6	25.96	170.50	672.77	77.76	14.20	13.64	946.42
06	3600	1320	2280	8.8	25.96	156.29	532.61	71.28	11.79	14.35	788.69
07	3400	1560	1840	10.4	25.96	184.70	429.82	84.24	10.87	0.00	713.86
08	3360	1440	1920	9.6	25.96	170.50	448.51	77.76	10.84	0.00	711.89
09	3320	1440	1880	9.6	25.96	170.50	439.17	77.76	10.70	0.00	702.68
10	3520	1440	2080	9.6	25.96	170.50	485.89	77.76	11.40	10.70	759.40
11	3520	1440	2080	9.6	25.96	170.50	485.89	77.76	11.40	11.40	760.10
12	4480	1680	2800	11.2	25.96	198.91	654.08	90.72	14.55	11.21	966.34
	43560										$9,374.52

Month	kWhs	First Block kWhs	Second Block kWhs	Demand kW	Basic Cust Charge @ Proposed 2005 Rates	First Block kWh Charge	Second Block kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2005 Rates
02	4920	1680	3240	11.2	25.96	228.65	651.24	116.26	15.33	0.00	1,006.77
03	4960	1560	3400	10.4	25.96	212.32	683.40	107.95	15.44	0.00	1,014.18
04	4160	1440	2720	9.6	25.96	195.98	546.72	99.65	13.02	0.00	855.29
05	4320	1440	2880	9.6	25.96	195.98	578.88	99.65	13.51	12.97	899.93
06	3600	1320	2280	8.8	25.96	179.65	458.28	91.34	11.33	13.79	757.69
07	3400	1560	1840	10.4	25.96	212.32	369.84	107.95	10.74	0.00	705.33
08	3360	1440	1920	9.6	25.96	195.98	385.92	99.65	10.61	0.00	696.90
09	3320	1440	1880	9.6	25.96	195.98	377.88	99.65	10.49	0.00	688.98
10	3520	1440	2080	9.6	25.96	195.98	418.08	99.65	11.10	10.41	738.99
11	3520	1440	2080	9.6	25.96	195.98	418.08	99.65	11.10	11.10	739.67
12	4480	1680	2800	11.2	25.96	228.65	562.80	116.26	14.00	10.79	930.45
	43560										$9,034.18

Month	kWhs	Demand kW	Basic Cust Charge @ Proposed 2006 Rates	kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2006 Rates
02	4920	11.2	25.96	792.61	142.24	14.41	0.00	946.40
03	4960	10.4	25.96	799.06	132.08	14.36	0.00	942.74
04	4160	9.6	25.96	670.18	121.92	12.27	0.00	805.79
05	4320	9.6	25.96	695.95	121.92	12.66	12.15	843.33
06	3600	8.8	25.96	579.96	111.76	10.77	13.10	720.02
07	3400	10.4	25.96	547.74	132.08	10.59	0.00	695.19
08	3360	9.6	25.96	541.30	121.92	10.34	0.00	678.84
09	3320	9.6	25.96	534.85	121.92	10.24	0.00	672.49
10	3520	9.6	25.96	567.07	121.92	10.72	10.07	714.29
11	3520	9.6	25.96	567.07	121.92	10.72	10.72	714.95
12	4480	11.2	25.96	721.73	142.24	13.35	10.29	886.87
	43560							$8,620.91

Rate 2.2D Medium Customer with average load factor

Month	kWhs	First Block kWhs	Second Block kWhs	Basic Cust Charge @ Current Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Current Rates
01	6120	700	5420	$18.10	$65.72	$1,085.90	$17.55	$12.37	$1,164.54
02	4920	700	4220	18.10	65.72	845.48	13.94	17.56	932.92
03	5600	700	4900	18.10	65.72	981.72	15.98	13.93	1,063.49
04	5120	700	4420	18.10	65.72	885.55	14.54	15.98	970.81
05	6360	700	5660	18.10	65.72	1,133.98	18.27	14.54	1,214.08
06	6200	700	5500	18.10	65.72	1,101.93	17.79	0.00	1,167.96
07	5680	700	4980	18.10	65.72	997.74	16.22	0.00	1,065.34
08	6360	700	5660	18.10	65.72	1,133.98	18.27	0.00	1,199.54
09	6440	700	5740	18.10	65.72	1,150.01	18.51	18.27	1,233.60
10	6880	700	6180	18.10	65.72	1,238.16	19.83	18.50	1,320.66
11	6880	700	6180	18.10	65.72	1,238.16	19.83	0.00	1,302.16
12	4240	700	3540	18.10	65.72	709.24	11.90	19.84	801.00
	70800								$13,436.10

Month	kWhs	First Block kWhs	Second Block kWhs	Demand kW	Basic Cust Charge @ Proposed 2004 Rates	First Block kWh Charge	Second Block kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2004 Rates
01	6120	4080	2040	27.2	$25.96	$483.07	$476.54	$220.32	$18.09	$12.75	$1,200.56
02	4920	4080	840	27.2	25.96	483.07	196.22	220.32	13.88	17.49	929.18
03	5600	4080	1520	27.2	25.96	483.07	355.07	220.32	16.27	14.18	1,082.34
04	5120	4200	920	28.0	25.96	497.28	214.91	226.80	14.47	15.91	966.39
05	6360	3840	2520	25.6	25.96	454.66	588.67	207.36	19.15	15.24	1,272.74
06	6200	3480	2720	23.2	25.96	412.03	635.39	187.92	18.92	0.00	1,242.38
07	5680	4200	1480	28.0	25.96	497.28	345.73	226.80	16.44	0.00	1,079.33
08	6360	2400	3960	16.0	25.96	284.16	925.06	129.60	20.47	0.00	1,344.30
09	6440	3000	3440	20.0	25.96	355.20	803.58	162.00	20.20	19.94	1,346.49
10	6880	4200	2680	28.0	25.96	497.28	626.05	226.80	20.64	19.26	1,374.71
11	6880	4200	2680	28.0	25.96	497.28	626.05	226.80	20.64	0.00	1,355.45
12	4240	4240	0	29.6	25.96	502.02	0.00	239.76	11.52	19.20	775.42
	70800										$13,969.29

Month	kWhs	First Block kWhs	Second Block kWhs	Demand kW	Basic Cust Charge @ Proposed 2005 Rates	First Block kWh Charge	Second Block kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2005 Rates
01	6120	4080	2040	27.2	$25.96	$555.29	$410.04	$282.34	$19.10	$13.46	$1,267.98
02	4920	4080	840	27.2	25.96	555.29	168.84	282.34	15.49	19.50	1,036.44
03	5600	4080	1520	27.2	25.96	555.29	305.52	282.34	17.54	15.29	1,166.86
04	5120	4200	920	28.0	25.96	571.62	184.92	290.64	16.10	17.69	1,074.74
05	6360	3840	2520	25.6	25.96	522.62	506.52	265.73	19.81	15.77	1,316.79
06	6200	3480	2720	23.2	25.96	473.63	546.72	240.82	19.31	0.00	1,267.82
07	5680	4200	1480	28.0	25.96	571.62	297.48	290.64	17.79	0.00	1,167.91
08	6360	2400	3960	16.0	25.96	326.64	795.96	166.08	19.72	0.00	1,294.92
09	6440	3000	3440	20.0	25.96	408.30	691.44	207.60	20.00	19.74	1,333.04
10	6880	4200	2680	28.0	25.96	571.62	538.68	290.64	21.40	19.97	1,425.47
11	6880	4200	2680	28.0	25.96	571.62	538.68	290.64	21.40	0.00	1,405.50
12	4240	4240	0	29.6	25.96	577.06	0.00	307.25	13.65	22.77	919.39
	70800										$14,676.86

Month	kWhs	Demand kW	Basic Cust Charge @ Proposed 2006 Rates	kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2006 Rates
01	6120	27.2	$25.96	$985.93	$345.44	$20.36	$14.35	$1,351.32
02	4920	27.2	25.96	792.61	345.44	17.46	21.99	1,168.54
03	5600	27.2	25.96	902.16	345.44	19.10	16.65	1,271.11
04	5120	28.0	25.96	824.83	355.60	18.10	19.89	1,208.19
05	6360	25.6	25.96	1,024.60	325.12	20.64	16.42	1,371.47
06	6200	23.2	25.96	998.82	294.64	19.79	0.00	1,299.63
07	5680	28.0	25.96	915.05	355.60	19.45	0.00	1,277.16
08	6360	16.0	25.96	1,024.60	203.20	18.81	0.00	1,234.95
09	6440	20.0	25.96	1,037.48	254.00	19.76	19.51	1,317.19
10	6880	28.0	25.96	1,108.37	355.60	22.35	20.85	1,488.43
11	6880	28.0	25.96	1,108.37	355.60	22.35	0.00	1,467.58
12	4240	29.6	25.96	683.06	375.92	16.27	27.14	1,095.81
	70800							$15,551.38

Rate 2.2D Large Customer with high load factor

Month	kWhs	First Block kWhs	Second Block kWhs	Basic Cust Charge @ Current Rates	First Block kWh Charge	Second Block kWh Charge	Discount	Forfeited Discount	Total Revenue @ Current Rates
01	11391	700	10691	$18.10	$65.72	$2,141.94	$33.39	$0.00	$2,192.38
02	11115	700	10415	18.10	65.72	2,086.65	32.56	0.00	2,137.91
03	11352	700	10652	18.10	65.72	2,134.13	33.27	0.00	2,184.68
04	11936	700	11236	18.10	65.72	2,251.13	35.02	33.27	2,333.21
05	11535	700	10835	18.10	65.72	2,170.79	33.82	0.00	2,220.80
06	11970	700	11270	18.10	65.72	2,257.94	35.13	0.00	2,306.64
07	12351	700	11651	18.10	65.72	2,334.28	36.27	0.00	2,381.83
08	12391	700	11691	18.10	65.72	2,342.29	36.39	36.27	2,425.99
09	12357	700	11657	18.10	65.72	2,335.48	36.29	36.39	2,419.41
10	11731	700	11031	18.10	65.72	2,210.06	34.41	36.29	2,295.77
11	11181	700	10481	18.10	65.72	2,099.87	32.76	0.00	2,150.94
12	12773	700	12073	18.10	65.72	2,418.83	37.54	0.00	2,465.11
	142083								$27,514.67

Month	kWhs	First Block kWhs	Second Block kWhs	Demand kW	Basic Cust Charge @ Proposed 2004 Rates	First Block kWh Charge	Second Block kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2004 Rates
01	11391	4500	6891	30.0	$25.96	$532.80	$1,609.74	$243.00	$36.17	$0.00	$2,375.33
02	11115	4665	6450	31.1	25.96	552.34	1506.72	251.91	35.05	0.00	2,301.87
03	11352	4515	6837	30.1	25.96	534.58	1597.12	243.81	36.02	0.00	2,365.45
04	11936	4545	7391	30.3	25.96	538.13	1726.54	245.43	38.04	36.14	2,534.15
05	11535	4290	7245	28.6	25.96	507.94	1692.43	231.66	36.87	0.00	2,421.12
06	11970	4485	7485	29.9	25.96	531.02	1748.50	242.19	38.22	0.00	2,509.45
07	12351	4245	8106	28.3	25.96	502.61	1893.56	229.23	39.77	0.00	2,611.59
08	12391	3975	8416	26.5	25.96	470.64	1965.98	214.65	40.16	40.02	2,677.09
09	12357	4020	8337	26.8	25.96	475.97	1947.52	217.08	40.00	40.11	2,666.64
10	11731	3855	7876	25.7	25.96	456.43	1839.83	208.17	37.96	40.03	2,532.47
11	11181	4185	6996	27.9	25.96	495.50	1634.27	225.99	35.73	0.00	2,345.99
12	12773	4785	7988	31.9	25.96	566.54	1866.00	258.39	40.75	0.00	2,676.14
	142083										$30,017.29

Month	kWhs	First Block kWhs	Second Block kWhs	Demand kW	Basic Cust Charge @ Proposed 2005 Rates	First Block kWh Charge	Second Block kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2005 Rates
01	11391	4500	6891	30.0	$25.96	$612.45	$1,385.09	$311.40	$35.02	$0.00	$2,299.88
02	11115	4665	6450	31.1	25.96	634.91	1296.45	322.82	34.20	0.00	2,245.93
03	11352	4515	6837	30.1	25.96	614.49	1374.24	312.44	34.91	0.00	2,292.22
04	11936	4545	7391	30.3	25.96	618.57	1485.59	314.51	36.67	34.84	2,442.81
05	11535	4290	7245	28.6	25.96	583.87	1456.25	296.87	35.44	0.00	2,327.50
06	11970	4485	7485	29.9	25.96	610.41	1504.49	310.36	36.77	0.00	2,414.45
07	12351	4245	8106	28.3	25.96	577.74	1629.31	293.75	37.90	0.00	2,488.86
08	12391	3975	8416	26.5	25.96	541.00	1691.62	275.07	38.00	37.88	2,533.51
09	12357	4020	8337	26.8	25.96	547.12	1675.74	278.18	37.91	38.01	2,527.11
10	11731	3855	7876	25.7	25.96	524.67	1583.08	266.77	36.01	37.98	2,402.44
11	11181	4185	6996	27.9	25.96	569.58	1406.20	289.60	34.37	0.00	2,256.97
12	12773	4785	7988	31.9	25.96	651.24	1605.59	331.12	39.21	0.00	2,574.70
	142083										$28,806.38

Month	kWhs	Demand kW	Basic Cust Charge @ Proposed 2006 Rates	kWh Charge	Demand Charge	Discount	Forfeited Discount	Total Revenue @ Proposed 2006 Rates
01	11391	30.0	$25.96	$1,835.09	$381.00	$33.63	$0.00	$2,208.42
02	11115	31.1	25.96	1,790.63	394.97	33.17	0.00	2,178.38
03	11352	30.1	25.96	1,828.81	382.27	33.56	0.00	2,203.48
04	11936	30.3	25.96	1,922.89	384.81	35.00	33.26	2,331.91
05	11535	28.6	25.96	1,858.29	363.22	33.71	0.00	2,213.76
06	11970	29.9	25.96	1,928.37	379.73	35.01	0.00	2,299.05
07	12351	28.3	25.96	1,989.75	359.41	35.63	0.00	2,339.49
08	12391	26.5	25.96	1,996.19	336.55	35.38	35.26	2,358.58
09	12357	26.8	25.96	1,990.71	340.36	35.36	35.46	2,357.13
10	11731	25.7	25.96	1,889.86	326.39	33.63	35.47	2,244.06
11	11181	27.9	25.96	1,801.26	354.33	32.72	0.00	2,148.83
12	12773	31.9	25.96	2,057.73	405.13	37.33	0.00	2,451.49
	142083							$27,334.58