

NORTHERN UTILITIES, INC.
NEW HAMPSHIRE DIVISION
Calculation of the Projected Over or Under Collection of the
Summer 2016 Period Cost of Gas
DG 16-309
June 2016 Estimated

Under/(Over) collection as of 5/01/16		\$ (19,052)
Forecasted firm therm sales 06/01/2016 - 10/31/2016		
Residential Heat & Non Heat	2,759,027	
HLF Classes	2,764,677	
LLF Classes	2,378,441	
Current recovery rate per therm		
Residential heat & non heat	\$0.3430	
HLF classes	\$0.3066	
LLF classes	\$0.3853	
Total	\$ (2,710,410)	
Forecasted recovered costs at current rates 06/01/2016 - 10/31/2016		\$ (2,710,410)
Actual recovered costs 5/01/2016 - 05/31/2016		\$ (554,766)
Estimated total recovered costs 05/01/2016 - 10/31/2016		\$ (3,265,176)
Revised projected direct gas costs 05/01/16 - 10/31/16 [1]		\$ 3,465,960
Revised projected indirect gas costs 05/01/16 - 10/31/16 [2]		\$ 140,688
Projected under/(over) collection as of 10/31/16		\$ 322,419

Actual gas costs to date 5/01/2016 - 05/31/2016	\$ 515,785	
Revised projected indirect gas costs 06/01/2016 - 10/31/2016	\$ 120,371	
Revised projected direct gas costs 06/01/2016 - 10/31/2016	\$ 2,970,491	
Estimated total adjusted gas costs 05/01/16 - 10/31/16	\$ 3,606,647	

Under/(over) collection as percent of total gas costs	8.94%
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Projected under/(over) collection as of 10/31/16	\$ 322,419
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Adjustment to Cost of Gas	\$ 310,000
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NOTES

[1] Revised as follows:

- Futures prices as of May 20, 2016

[2] Includes: Working Capital Allowance, Bad Debt Allowance, Production and Storage Capacity, Miscellaneous Overheads and Interest

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Analysis, Balances and Interest Calculation

		Winter						Summer							
Sales Revenues		Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	(Forecast) Jun-16	(Forecast) Jul-16	(Forecast) Aug-16	(Forecast) Sep-16	(Forecast) Oct-16	Total Summer
Volumes															
Residential Heat & Non Heat										473,945	430,469	447,488	489,892	917,233	2,759,027
Sales HLF Classes										474,916	431,351	448,404	490,895	919,111	2,764,677
Sales LLF Classes										408,568	371,089	385,760	422,315	790,708	2,378,441
Total										1,357,429	1,232,909	1,281,652	1,403,103	2,627,052	7,902,146
Rates															
Residential Heat & Non Heat CGA									\$0.3196	\$0.3430	\$0.3430	\$0.3430	\$0.3430	\$0.3430	
Sales HLF Classes CGA									\$0.2832	\$0.3066	\$0.3066	\$0.3066	\$0.3066	\$0.3066	
Sales LLF Classes CGA									\$0.3619	\$0.3853	\$0.3853	\$0.3853	\$0.3853	\$0.3853	
Revenues															
Residential Heat & Non Heat										\$ (162,563)	\$ (147,651)	\$ (153,488)	\$ (168,033)	\$ (314,611)	\$ (946,346)
Sales HLF Classes										\$ (145,609)	\$ (132,252)	\$ (137,481)	\$ (150,509)	\$ (281,800)	\$ (847,650)
Sales LLF Classes										\$ (157,421)	\$ (142,981)	\$ (148,633)	\$ (162,718)	\$ (304,660)	\$ (916,413)
Total Sales			\$ (38,674)	\$ (32)	\$ 291	\$ 2,260	\$ 7,413	\$ 180	\$ (554,766)	\$ (465,594)	\$ (422,884)	\$ (439,602)	\$ (481,260)	\$ (901,070)	\$ (3,265,176)
			Winter						Summer						
Gas Costs and Credits		Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	(Forecast) Jun-16	(Forecast) Jul-16	(Forecast) Aug-16	(Forecast) Sep-16	(Forecast) Oct-16	Total
Net Demand Costs (Net of Injection Fees & Cap. Assign.)															
Pipeline										\$ 87,648	\$ 87,648	\$ 87,648	\$ 87,648	\$ 87,648	\$ 438,238
Storage										\$ 55,694	\$ 55,694	\$ 55,694	\$ 55,694	\$ 55,694	\$ 278,470
Peaking										\$ 12,226	\$ 12,226	\$ 12,226	\$ 12,226	\$ 12,226	\$ 61,132
Total Demand Costs			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 155,568	\$ 155,568	\$ 155,568	\$ 155,568	\$ 155,568	\$ 155,568	\$ 933,408
Asset Management and Capacity Release															
NUI AMA Revenue															\$ -
PNGTS Litigation Cost															\$ -
NUI Capacity Release															\$ -
NUI AMA Rev & Cap. Release Subtotal															\$ -
NH AMA Revenue															\$ -
NH Capacity Release															\$ -
NH Total Asset Management and Capacity Release			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Demand Costs									\$ 155,568	\$ 155,568	\$ 155,568	\$ 155,568	\$ 155,568	\$ 155,568	\$ 933,408
NUI Commodity Costs															
NUI Total Pipeline Volumes										331,246	299,589	302,138	347,502	673,103	1,953,578
Pipeline Costs Modeled in Sendout™										\$ 613,210	\$ 568,272	\$ 589,407	\$ 707,191	\$ 1,611,513	\$ 4,089,593
NYMEX Price Used for Forecast										\$ 1.9000	\$ 1.9960	\$ 2.0460	\$ 2.0650	\$ 2.1070	
NYMEX Price Used for Update										\$ 1.9630	\$ 2.7470	\$ 2.7770	\$ 2.7950	\$ 2.8430	
Increase/(Decrease) NYMEX Price										\$ 0.06	\$ 0.75	\$ 0.73	\$ 0.73	\$ 0.74	
Increase/(Decrease) in Pipeline Costs										\$ 20,868	\$ 224,991	\$ 220,863	\$ 253,676	\$ 495,404	\$ 1,215,803
Updated Pipeline Costs										\$ 634,078	\$ 793,263	\$ 810,270	\$ 960,867	\$ 2,106,917	
Interruptible Volumes - NH										0	0	0	0	0	
Average Supply Cost (\$/MMBtu)										\$ 1.91	\$ 2.65	\$ 2.68	\$ 2.77	\$ 3.13	
Interruptible Cost - NH										\$ -	\$ -	\$ -	\$ -	\$ -	
Total Updated Pipeline Costs										\$ 634,078	\$ 793,263	\$ 810,270	\$ 960,867	\$ 2,106,917	
New Hampshire Allocated Percentage										41.14%	41.28%	42.55%	40.55%	39.30%	
NH Updated Pipeline Costs										\$ 260,879	\$ 327,465	\$ 344,796	\$ 389,627	\$ 828,020	\$ 2,150,786
Hedging (Gain)/Loss Estimate															
NYMEX Options Contracts															
Number of Contracts										\$ -	\$ -	\$ -	\$ -	\$ -	
Option Contract Price										\$ -	\$ -	\$ -	\$ -	\$ -	
Hedging Expenses										\$ -	\$ -	\$ -	\$ -	\$ -	
NYMEX Option Strike Price										\$ -	\$ -	\$ -	\$ -	\$ -	
NYMEX Price Used for Forecast										\$ -	\$ -	\$ -	\$ -	\$ -	
Strike Price Hit										NA	NA	NA	NA	NA	
Option Hedging Gain (Credit)										\$ -	\$ -	\$ -	\$ -	\$ -	
Tota Northern Hedging Net Cost										\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
New Hampshire Allocated Percentage										41.14%	41.28%	42.55%	40.55%	39.30%	
NH Futures Hedging Net Cost										\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Analysis, Balances and Interest Calculation

NH Commodity Costs										\$ 260,879	\$ 327,465	\$ 344,796	\$ 389,627	\$ 828,020	\$ 2,150,786
Pipeline Excl Hedging										\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Hedging (Gain)/Loss Estimate										\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Storage										\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Peaking										\$ 8,190	\$ 8,519	\$ 8,798	\$ 8,158	\$ 8,199	\$ 41,865
Total Commodity Costs		\$ (3,723)	\$ (120)					\$ 339,900	\$ 269,069	\$ 335,984	\$ 353,594	\$ 397,785	\$ 836,219	\$ 2,532,552	
Inventory Finance Charge															\$ -
Total Anticipated Direct Cost of Gas		\$ (3,723)	\$ (120)	\$ -	\$ -	\$ -	\$ -	\$ 495,468	\$ 424,637	\$ 491,552	\$ 509,162	\$ 553,353	\$ 991,787	\$ 3,465,960	
		Winter							Summer						
	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	(Forecast) Jun-16	(Forecast) Jul-16	(Forecast) Aug-16	(Forecast) Sep-16	(Forecast) Oct-16	Total Summer	
Working Capital															
Total Anticipated Direct Cost of Gas		\$ (3,723)	\$ (120)	\$ -	\$ -	\$ -	\$ -	\$ 515,113	\$ 424,637	\$ 491,552	\$ 509,162	\$ 553,353	\$ 991,787	\$ 3,485,605	
Working Capital Percentage		0.0887%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	
Working Capital Allowance		\$ (3)	\$ (0)	\$ -	\$ -	\$ -	\$ -	\$ 457	\$ 377	\$ 436	\$ 452	\$ 491	\$ 880	\$ 3,092	
Beginning Period Working Capital Balance		\$ (431)	\$ (435)	\$ (437)	\$ (438)	\$ (439)	\$ (440)	\$ (442)	\$ 15	\$ 392	\$ 830	\$ 1,284	\$ 1,780	\$ 2,659	
End of Period Working Capital Allowance		\$ (434)	\$ (436)	\$ (437)	\$ (438)	\$ (439)	\$ (440)	\$ 15	\$ 391	\$ 828	\$ 1,281	\$ 1,775	\$ 2,659	\$ 2,659	
Interest		\$ (1)	\$ (1)	\$ (1)	\$ (1)	\$ (1)	\$ (1)	\$ (1)	\$ 1	\$ 2	\$ 3	\$ 4	\$ 6	\$ 16	
End of period with Interest	\$ (431)	\$ (435)	\$ (437)	\$ (438)	\$ (439)	\$ (440)	\$ (442)	\$ 15	\$ 392	\$ 830	\$ 1,284	\$ 1,780	\$ 2,666	\$ 2,666	
Bad Debt															
Projected Bad Debt	\$ -	\$ 1,434	\$ 921	\$ (28)	\$ 628	\$ 335	\$ 401	\$ 327	\$ 3,117	\$ 3,815	\$ 3,815	\$ 3,815	\$ 3,815	\$ 18,704	
Beginning Period Bad Debt Balance		\$ (12,773)	\$ (11,371)	\$ (10,480)	\$ (10,537)	\$ (9,936)	\$ (9,627)	\$ (9,254)	\$ (8,954)	\$ (5,858)	\$ (2,054)	\$ 1,760	\$ 5,586	\$ 9,401	
End of Period Bad Debt Balance		\$ (11,339)	\$ (10,451)	\$ (10,509)	\$ (9,909)	\$ (9,601)	\$ (9,227)	\$ (8,927)	\$ (5,836)	\$ (2,043)	\$ 1,761	\$ 5,575	\$ 9,401	\$ 9,401	
Interest		\$ (33)	\$ (30)	\$ (28)	\$ (28)	\$ (26)	\$ (27)	\$ (27)	\$ (22)	\$ (12)	\$ (0)	\$ 11	\$ 22	\$ (27)	
End of Period Bad Debt Balance with Interest	\$ (12,773)	\$ (11,371)	\$ (10,480)	\$ (10,537)	\$ (9,936)	\$ (9,627)	\$ (9,254)	\$ (8,954)	\$ (5,858)	\$ (2,054)	\$ 1,760	\$ 5,586	\$ 9,423	\$ 9,423	
Local Production and Storage Capacity								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Miscellaneous Overhead		\$ -	\$ -	\$ -				\$ 19,645	\$ 19,645	\$ 19,645	\$ 19,645	\$ 19,645	\$ 19,645	\$ 117,870	
Supplier Refund		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Gas Cost Other than Bad Debt and Working Capital Over/Under Collection															
Beginning Balance Over/Under Collection		\$ 23,260	\$ (19,131)	\$ (19,336)	\$ (19,097)	\$ (16,885)	\$ (9,508)	\$ (9,356)	\$ (49,094)	\$ (70,580)	\$ 17,656	\$ 107,042	\$ 199,227	\$ 194,895	
Net Costs - Revenues		\$ (42,397)	\$ (152)	\$ 291	\$ 2,260	\$ 7,413	\$ 180	\$ (39,653)	\$ (21,311)	\$ 88,313	\$ 89,204	\$ 91,738	\$ 110,362	\$ 318,653	
Ending Balance before Interest		\$ (19,137)	\$ (19,284)	\$ (19,045)	\$ (16,836)	\$ (9,472)	\$ (9,328)	\$ (49,009)	\$ (70,405)	\$ 17,733	\$ 106,861	\$ 198,781	\$ 309,589	\$ 513,549	
Average Balance		\$ 2,062	\$ (19,207)	\$ (19,190)	\$ (17,967)	\$ (13,179)	\$ (9,418)	\$ (29,182)	\$ (59,750)	\$ (26,423)	\$ 62,258	\$ 152,911	\$ 254,408	\$ 354,222	
Interest Rate		3.25%	3.25%	3.25%	3.25%	3.25%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	
Interest Expense		\$ 6	\$ (52)	\$ (52)	\$ (49)	\$ (36)	\$ (27)	\$ (85)	\$ (174)	\$ (77)	\$ 182	\$ 446	\$ 742	\$ 1,033	
Ending Balance Incl Interest Expense	\$ 23,260	\$ (19,131)	\$ (19,336)	\$ (19,097)	\$ (16,885)	\$ (9,508)	\$ (9,356)	\$ (49,094)	\$ (70,580)	\$ 17,656	\$ 107,042	\$ 199,227	\$ 310,331	\$ 310,331	
Total Over/Under Collection Ending Balance	\$ 10,056	\$ (30,938)	\$ (30,253)	\$ (30,072)	\$ (27,260)	\$ (19,575)	\$ (19,052)	\$ (58,033)	\$ (76,046)	\$ 16,432	\$ 110,087	\$ 206,592	\$ 322,419	\$ 322,419	
Total Indirect Cost of Gas	\$ 10,056	\$ 1,403	\$ 838	\$ (110)	\$ 551	\$ 272	\$ 344	\$ 20,317	\$ 22,944	\$ 23,809	\$ 24,096	\$ 24,412	\$ 25,110	\$ 140,688	
Total Cost of Gas	\$ 6,333	\$ (2,321)	\$ 717	\$ (110)	\$ 551	\$ 272	\$ 344	\$ 515,785	\$ 447,581	\$ 515,361	\$ 533,258	\$ 577,765	\$ 1,016,898	\$ 3,606,647	
Total Interest	\$ -	\$ (28)	\$ (83)	\$ (82)	\$ (78)	\$ (63)	\$ (56)	\$ (112)	\$ (195)	\$ (87)	\$ 184	\$ 461	\$ 770	\$ 1,021	

Northern Utilities, Inc.
Price Risk Management
Profit and Loss Statement
May 2016

Account # 53325

Current

ACB	\$196,784.86
TE	\$196,784.86
LV	\$311,693.86

ACTIVITY - Purchase Cost and Profit and Loss	Expense	Profit and Loss
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Date	Description	State	Contracts	Option Premium	Strike Price	Option Purchase Cost	
05/02/16	Nov17 Options	Both	12	\$0.230		\$27,600.00	(\$27,600.00)
05/26/16	Dec17 Options	Both	20	\$0.237		\$47,400.00	(\$47,400.00)
	<i>Net P&L</i>						(\$75,000.00)

TRANSACTION COSTS	Subtotal	Total
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Transaction Cost-Enter Options	Both	32	\$6.93		(\$221.72)	
Transaction Cost-Exit Options		0			\$0.00	
<i>Total New Transaction Costs</i>						(\$221.72)

OPEN CALL OPTION POSITIONS-Expense and Open Trade Equity	Total	Total
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	State	QTY	Actual Option Premium	Option Purchase Cost	Strike Price	05/31/16 Futures Price	Current Open Trade Equity
04/28/15	Nov16 Options	18	0.077	\$13,860.00	\$4.800	\$2.722	\$0.00
05/27/15	Dec16 Options	31	0.085	\$26,350.00	\$5.250	\$2.997	\$0.00
06/26/15	Jan17 Options	45	0.103	\$46,350.00	\$6.000	\$3.126	\$0.00
07/29/15	Feb17 Options	46	0.099	\$45,540.00	\$6.250	\$3.121	\$0.00
08/27/15	Mar17 Options	37	0.080	\$29,600.00	\$6.300	\$3.079	\$0.00
05/02/16	Nov17 Options	12	0.230	\$27,600.00	\$3.500	\$3.057	\$0.00
05/26/16	Dec17 Options	20	0.237	\$47,400.00	\$4.000	\$3.201	\$0.00
<i>Total Expense, Open Trade Equity</i>				\$236,700.00			\$0.00

OPEN CALL OPTION POSITIONS- Long Option Value	Total
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	State	QTY	Current Option Premium	Current Option Value	Strike Price
04/28/15	Nov16 Options	18	0.0067	\$1,206.00	\$4.800
05/27/15	Dec16 Options	31	0.0117	\$3,627.00	\$5.250
06/26/15	Jan17 Options	45	0.0178	\$8,010.00	\$6.000
07/29/15	Feb17 Options	46	0.0288	\$13,248.00	\$6.250
08/27/15	Mar17 Options	37	0.0354	\$13,098.00	\$6.300
05/02/16	Nov17 Options	12	0.2650	\$31,800.00	\$3.500
05/26/16	Dec17 Options	20	0.2196	\$43,920.00	\$4.000
05/31/16	<i>Total Long Option Value</i>			\$114,909.00	

MARGIN CASH BALANCE	Subtotal	Total
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05/01/16	Beginning Balance-carried forward from last month		\$272,006.58
	Interest Credit	\$0.00	
	Net Deposit to Margin Account	\$0.00	
	Option Premiums of new activity	(\$75,000.00)	
	Monthly Transaction Costs	(\$221.72)	
	<i>Total Monthly Cash Adjustment</i>		(\$75,221.72)
05/31/16	Ending Balance (ACB)		\$196,784.86

NORTHERN UTILITIES, INC.
DETERMINATION OF INVENTORY FINANCING FROM MONEY POOL
May 2016

	Total Inventory	Average bal beg + end / 2	Internally Financed	Money Pool Interest Rate	Interest to Defer	NH	ME
January 2015	\$10,398,644.45	\$12,704,155.00	\$12,704,155.00	1.56%	\$16,515.40	\$7,872.89	\$8,642.51
February	\$5,906,333.53	\$8,152,488.99	\$8,152,488.99	1.57%	\$10,666.17	\$5,084.56	\$5,581.61
March	\$3,816,219.24	\$4,861,276.38	\$4,861,276.38	1.57%	\$6,360.17	\$3,031.89	\$3,328.28
April	\$4,853,845.91	\$4,335,032.58	\$4,335,032.58	1.58%	\$5,707.79	\$2,720.90	\$2,986.89
May	\$5,845,033.55	\$5,349,439.73	\$5,349,439.73	1.58%	\$7,043.43	\$3,357.60	\$3,685.83
June	\$6,981,986.40	\$6,413,509.97	\$6,413,509.97	1.58%	\$8,444.45	\$4,025.47	\$4,418.98
July	\$8,083,382.82	\$7,532,684.61	\$7,532,684.61	1.58%	\$9,918.03	\$4,727.93	\$5,190.11
August	\$9,191,271.89	\$8,637,327.36	\$8,637,327.36	1.58%	\$11,372.48	\$5,421.26	\$5,951.22
September	\$10,272,808.68	\$9,732,040.28	\$9,732,040.28	1.48%	\$12,002.85	\$5,721.76	\$6,281.09
October	\$11,382,175.37	\$10,827,492.03	\$10,827,492.03	1.46%	\$13,173.45	\$6,279.78	\$6,893.67
November	\$11,243,809.57	\$11,312,992.47	\$11,312,992.47	1.48%	\$13,952.69	\$5,918.73	\$8,033.96
December	\$11,245,520.69	\$11,244,665.13	\$11,244,665.13	1.63%	\$15,274.00	\$6,479.23	\$8,794.77
January 2016	\$8,349,188.69	\$9,797,354.69	\$9,797,354.69	1.70%	\$13,879.59	\$5,887.72	\$7,991.87
February	\$6,881,382.39	\$7,615,285.54	\$7,615,285.54	1.71%	\$10,851.78	\$4,603.33	\$6,248.46
March	\$6,466,038.05	\$6,673,710.22	\$6,673,710.22	1.71%	\$9,510.04	\$4,034.16	\$5,475.88
April	\$6,932,113.54	\$6,699,075.80	\$6,699,075.80	1.71%	\$9,546.18	\$4,049.49	\$5,496.69
May	\$7,347,477.88	\$7,139,795.71	\$7,139,795.71	1.72%	\$10,233.71	\$4,341.14	\$5,892.57

Inventory
ACCT #

		MMBTU	AMOUNT
515152	LNG Inventory - Liquified Natural Gas NATURAL GAS	10,518	\$94,968.85
515114&115	Natural Gas Underground - SS-1 and FSS-1		
515116	Natural Gas Underground - SSNE	71,051	\$94,657.51
515113	Natural Gas Underground - MCN	2,385,205	\$7,157,851.52
516525	Washington 10 prepaid	-	

Total Inventory

\$7,347,477.88