

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
July 2016 Estimated

Under/(Over) collection as of 5/01/16		\$	(19,052)
Forecasted firm therm sales 07/01/2016 - 10/31/2016			
Residential Heat & Non Heat	2,285,082		
HLF Classes	2,289,762		
LLF Classes	1,969,873		
Current recovery rate per therm			
Residential heat & non heat	\$0.3904		
HLF classes	\$0.3540		
LLF classes	\$0.4327		
Total	\$	(2,555,036)	
Forecasted recovered costs at current rates 07/01/2016 - 10/31/2016		\$	(2,555,036)
Actual recovered costs 5/01/2016 - 06/30/2016		\$	(904,319)
Estimated total recovered costs 05/01/2016 - 10/31/2016		\$	(3,459,354)
Revised projected direct gas costs 05/01/16 - 10/31/16 [1]		\$	3,364,670
Revised projected indirect gas costs 05/01/16 - 10/31/16 [2]		\$	137,670
Projected under/(over) collection as of 10/31/16		\$	23,933

Actual gas costs to date 5/01/2016 - 06/30/2016	\$	890,073
Revised projected indirect gas costs 07/01/2016 - 10/31/2016	\$	117,353
Revised projected direct gas costs 07/01/2016 - 10/31/2016	\$	2,869,202
Estimated total adjusted gas costs 05/01/16 - 10/31/16	\$	3,876,628

Under/(over) collection as percent of total gas costs	0.62%
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NOTES

[1] Revised as follows:

- Futures prices as of July 19, 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	Jun-16	(Forecast) Jul-16	(Forecast) Aug-16	(Forecast) Sep-16	(Forecast) Oct-16	Total Summer
Volumes															
Residential Heat & Non Heat											430,469	447,488	489,892	917,233	2,285,082
Sales HLF Classes											431,351	448,404	490,895	919,111	2,289,762
Sales LLF Classes											371,089	385,760	422,315	790,708	1,969,873
Total											1,232,909	1,281,652	1,403,103	2,627,052	6,544,717
Rates															
Residential Heat & Non Heat CGA									\$0.3196	\$0.3430	\$0.3904	\$0.3904	\$0.3904	\$0.3904	
Sales HLF Classes CGA									\$0.2832	\$0.3066	\$0.3540	\$0.3540	\$0.3540	\$0.3540	
Sales LLF Classes CGA									\$0.3619	\$0.3853	\$0.4327	\$0.4327	\$0.4327	\$0.4327	
Revenues															
Residential Heat & Non Heat											\$ (168,055)	\$ (174,699)	\$ (191,254)	\$ (358,088)	\$ (892,096)
Sales HLF Classes											\$ (152,698)	\$ (158,735)	\$ (173,777)	\$ (325,365)	\$ (810,576)
Sales LLF Classes											\$ (160,570)	\$ (166,918)	\$ (182,736)	\$ (342,139)	\$ (852,364)
Total Sales			\$ (38,674)	\$ (32)	\$ 291	\$ 2,260	\$ 7,413	\$ 180	\$ (554,766)	\$ (349,552)	\$ (481,324)	\$ (500,353)	\$ (547,767)	\$ (1,025,593)	\$ (3,459,354)

		Winter						Summer							
Gas Costs and Credits		Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	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											299,589	302,138	347,502	673,103	1,622,332
Pipeline Costs Modeled in Sendout™											\$ 568,272	\$ 589,407	\$ 707,191	\$ 1,611,513	\$ 3,476,383
NYMEX Price Used for Forecast											\$ 1.9960	\$ 2.0460	\$ 2.0650	\$ 2.1070	
NYMEX Price Used for Update											\$ 2.9170	\$ 2.7280	\$ 2.6890	\$ 2.7300	
Increase/(Decrease) NYMEX Price											\$ 0.92	\$ 0.68	\$ 0.62	\$ 0.62	
Increase/(Decrease) in Pipeline Costs											\$ 275,921	\$ 206,058	\$ 216,841	\$ 419,343	\$ 1,118,164
Updated Pipeline Costs											\$ 844,194	\$ 795,465	\$ 924,032	\$ 2,030,857	
Interruptible Volumes - NH											0	0	0	0	
Average Supply Cost (\$/MMBtu)											\$ 2.82	\$ 2.63	\$ 2.66	\$ 3.02	
Interruptible Cost - NH											\$ -	\$ -	\$ -	\$ -	
Total Updated Pipeline Costs											\$ 844,194	\$ 795,465	\$ 924,032	\$ 2,030,857	
New Hampshire Allocated Percentage											41.28%	42.55%	40.55%	39.30%	
NH Updated Pipeline Costs											\$ 348,489	\$ 338,496	\$ 374,690	\$ 798,128	\$ 1,859,803
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	
Option Hedging Gain (Credit)											\$ -	\$ -	\$ -	\$ -	
Tota Northern Hedginf Net Cost											\$ -	\$ -	\$ -	\$ -	\$ -
New Hampshire Allocated Percentage											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										\$ 348,489	\$ 338,496	\$ 374,690	\$ 798,128	\$ 1,859,803
Pipeline Excl Hedging										\$ -	\$ -	\$ -	\$ -	\$ -
Hedging (Gain)/Loss Estimate										\$ -	\$ -	\$ -	\$ -	\$ -
Storage										\$ -	\$ -	\$ -	\$ -	\$ -
Peaking										\$ 8,519	\$ 8,798	\$ 8,158	\$ 8,199	\$ 33,675
Total Commodity Costs		\$ (3,723)	\$ (120)					\$ 339,900	\$ 197,884	\$ 357,008	\$ 347,294	\$ 382,849	\$ 806,328	\$ 2,431,262
Inventory Finance Charge														\$ -
Total Anticipated Direct Cost of Gas		\$ (3,723)	\$ (120)	\$ -	\$ -	\$ -	\$ -	\$ 495,468	\$ 353,452	\$ 512,576	\$ 502,862	\$ 538,417	\$ 961,896	\$ 3,364,670
		Winter							Summer					
	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	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	\$ 373,097	\$ 532,221	\$ 522,507	\$ 558,062	\$ 981,541	\$ 3,482,540
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%	
Working Capital Allowance		\$ (3)	\$ (0)	\$ -	\$ -	\$ -	\$ -	\$ 457	\$ 331	\$ 472	\$ 463	\$ 495	\$ 871	\$ 3,089
Beginning Period Working Capital Balance		\$ (431)	\$ (435)	\$ (437)	\$ (438)	\$ (439)	\$ (440)	\$ (442)	\$ 15	\$ 346	\$ 820	\$ 1,286	\$ 1,786	
End of Period Working Capital Allowance		\$ (434)	\$ (436)	\$ (437)	\$ (438)	\$ (439)	\$ (440)	\$ 15	\$ 346	\$ 818	\$ 1,283	\$ 1,781	\$ 2,657	
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	\$ 346	\$ 820	\$ 1,286	\$ 1,786	\$ 2,663	
Bad Debt														
Projected Bad Debt	\$ -	\$ 1,434	\$ 921	\$ (28)	\$ 628	\$ 335	\$ 401	\$ 327	\$ 994	\$ 3,815	\$ 3,815	\$ 3,815	\$ 3,815	\$ 16,581
Beginning Period Bad Debt Balance		\$ (12,773)	\$ (11,371)	\$ (10,480)	\$ (10,537)	\$ (9,936)	\$ (9,627)	\$ (9,254)	\$ (8,954)	\$ (7,985)	\$ (4,188)	\$ (379)	\$ 3,440	
End of Period Bad Debt Balance		\$ (11,339)	\$ (10,451)	\$ (10,509)	\$ (9,909)	\$ (9,601)	\$ (9,227)	\$ (8,927)	\$ (7,960)	\$ (4,170)	\$ (373)	\$ 3,436	\$ 7,255	
Interest		\$ (33)	\$ (30)	\$ (28)	\$ (28)	\$ (26)	\$ (27)	\$ (27)	\$ (25)	\$ (18)	\$ (7)	\$ 4	\$ 16	\$ (56)
End of Period Bad Debt Balance with Interest	\$ (12,773)	\$ (11,371)	\$ (10,480)	\$ (10,537)	\$ (9,936)	\$ (9,627)	\$ (9,254)	\$ (8,954)	\$ (7,985)	\$ (4,188)	\$ (379)	\$ 3,440	\$ 7,271	
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)	\$ (25,658)	\$ 25,239	\$ 47,498	\$ 57,947	\$ 46,575
Net Costs - Revenues		\$ (42,397)	\$ (152)	\$ 291	\$ 2,260	\$ 7,413	\$ 180	\$ (39,653)	\$ 23,544	\$ 50,898	\$ 22,154	\$ 10,295	\$ (44,052)	\$ 23,186
Ending Balance before Interest		\$ (19,137)	\$ (19,284)	\$ (19,045)	\$ (16,836)	\$ (9,472)	\$ (9,328)	\$ (49,009)	\$ (25,550)	\$ 25,239	\$ 47,393	\$ 57,793	\$ 13,895	\$ 69,761
Average Balance		\$ 2,062	\$ (19,207)	\$ (19,190)	\$ (17,967)	\$ (13,179)	\$ (9,418)	\$ (29,182)	\$ (37,322)	\$ (210)	\$ 36,316	\$ 52,646	\$ 35,921	\$ 58,168
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)	\$ (109)	\$ (1)	\$ 106	\$ 154	\$ 105	\$ 170
Ending Balance Incl Interest Expense	\$ 23,260	\$ (19,131)	\$ (19,336)	\$ (19,097)	\$ (16,885)	\$ (9,508)	\$ (9,356)	\$ (49,094)	\$ (25,658)	\$ 25,239	\$ 47,498	\$ 57,947	\$ 14,000	
Total Over/Under Collection Ending Balance	\$ 10,056	\$ (30,938)	\$ (30,253)	\$ (30,072)	\$ (27,260)	\$ (19,575)	\$ (19,052)	\$ (58,033)	\$ (33,297)	\$ 21,871	\$ 48,406	\$ 63,173	\$ 23,933	
Total Indirect Cost of Gas	\$ 10,056	\$ 1,403	\$ 838	\$ (110)	\$ 551	\$ 272	\$ 344	\$ 20,317	\$ 20,837	\$ 23,915	\$ 24,026	\$ 24,118	\$ 24,458	\$ 137,670
Total Cost of Gas	\$ 6,333	\$ (2,321)	\$ 717	\$ (110)	\$ 551	\$ 272	\$ 344	\$ 515,785	\$ 374,288	\$ 536,492	\$ 526,888	\$ 562,534	\$ 986,353	\$ 3,502,340
Total Interest	\$ -	\$ (28)	\$ (83)	\$ (82)	\$ (78)	\$ (63)	\$ (56)	\$ (112)	\$ (133)	\$ (17)	\$ 102	\$ 162	\$ 127	\$ 130

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

Account # 53325

Current

ACB	(\$50,203.58)
TE	\$208,004.00
LV	\$157,800.42

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	
06/28/16	Jan18 Options	Both	29	\$0.2475		\$71,775.00	(\$71,775.00)
	Net P&L						(\$71,775.00)

TRANSACTION COSTS	Subtotal	Total
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Transaction Cost-Enter Options	Both	29	\$7.36		(\$213.44)	
Transaction Cost-Exit Options		0			\$0.00	
Total New Transaction Costs						(\$213.44)

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	06/30/16 Futures Price	Current Open Trade Equity
04/28/15	Nov16 Options	Both	18	0.0770	\$13,860.00	\$4.800	\$3.085	\$0.00
05/27/15	Dec16 Options	Both	31	0.0850	\$26,350.00	\$5.250	\$3.319	\$0.00
06/26/15	Jan17 Options	Both	45	0.1030	\$46,350.00	\$6.000	\$3.446	\$0.00
07/29/15	Feb17 Options	Both	46	0.0990	\$45,540.00	\$6.250	\$3.429	\$0.00
08/27/15	Mar17 Options	Both	37	0.0800	\$29,600.00	\$6.300	\$3.368	\$0.00
05/02/16	Nov17 Options	Both	12	0.2300	\$27,600.00	\$3.500	\$3.146	\$0.00
05/26/16	Dec17 Options	Both	20	0.2370	\$47,400.00	\$4.000	\$3.279	\$0.00
06/28/16	Jan18 Options	Both	29	0.2475	\$71,775.00	\$4.300	\$3.385	\$0.00
Total Expense, Open Trade Equity					\$308,475.00			\$0.00

OPEN CALL OPTION POSITIONS- Long Option Value	Total
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				Current Option Premium	Current Option Value	Strike Price
		State	QTY			
04/28/15	Nov16 Options	Both	18	0.0094	\$1,692.00	\$4.800
05/27/15	Dec16 Options	Both	31	0.0197	\$6,107.00	\$5.250
06/26/15	Jan17 Options	Both	45	0.0272	\$12,240.00	\$6.000
07/29/15	Feb17 Options	Both	46	0.0397	\$18,262.00	\$6.250
08/27/15	Mar17 Options	Both	37	0.0519	\$19,203.00	\$6.300
05/02/16	Nov17 Options	Both	12	0.2789	\$33,468.00	\$3.500
05/26/16	Dec17 Options	Both	20	0.2244	\$44,880.00	\$4.000
06/28/16	Jan18 Options	Both	29	0.2488	\$72,152.00	\$4.000
06/30/16	Total Long Option Value				\$208,004.00	

MARGIN CASH BALANCE	Subtotal	Total
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06/01/16	Beginning Balance-carried forward from last month		\$196,784.86
	Interest Credit		\$0.00
	Net Deposit to Margin Account		(\$175,000.00)
	Option Premiums of new activity		(\$71,775.00)
	Monthly Transaction Costs		(\$213.44)
	Total Monthly Cash Adjustment		(\$246,988.44)
06/30/16	Ending Balance (ACB)		(\$50,203.58)

NORTHERN UTILITIES, INC.
DETERMINATION OF INVENTORY FINANCING FROM MONEY POOL
June 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
June	\$7,775,720.99	\$7,561,599.44	\$7,561,599.44	1.73%	\$10,901.31	\$4,624.33	\$6,276.97

Inventory
ACCT #

		MMBTU	AMOUNT
	LNG		
515152	Inventory - Liquified Natural Gas		
	NATURAL GAS	10,012	\$91,262.95
515114&115	Natural Gas Underground - SS-1 and FSS-1		
515116	Natural Gas Underground - SSNE	94,526	\$122,515.52
515113	Natural Gas Underground - MCN	2,588,155	\$7,561,942.52
516525	Washington 10 prepaid	-	

Total Inventory	<u><u>\$7,775,720.99</u></u>
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