

**ENERGY NORTH NATURAL GAS, INC,  
d/b/a NATIONAL GRID NH  
Peak 2010 – 2011 Winter Cost of Gas Filing**

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**II RATE SCHEDULES**  
**FIRM RATE SCHEDULES**

	Winter Period				Summer Period			
	Delivery Charge	Cost of Gas Rate Page 87	LDAC Page 94	Total Rate	Delivery Charge	Cost of Gas Rate Page 87	LDAC Page 94	Total Rate
<b>Residential Non Heating - R-1</b>								
Customer Charge per Month per Meter	\$ 10.99			\$ 10.99	\$ 10.99			\$ 10.99
All therms	\$ 0.1695	\$ 0.8220	\$ 0.0641	\$ 1.0556	\$ 0.1695	\$ 0.7084	\$ 0.0410	\$ 0.9189
<b>Residential Heating - R-3</b>								
Customer Charge per Month per Meter	\$ 15.78			\$ 15.78	\$ 15.78			\$ 15.78
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.2774	\$ 0.8220	\$ 0.0641	\$ 1.1635	\$ 0.2774	\$ 0.7084	\$ 0.0404	\$ 1.0262
All therms over the first block per month at	\$ 0.2091	\$ 0.8220	\$ 0.0641	\$ 1.0952	\$ 0.2091	\$ 0.7084	\$ 0.0404	\$ 0.9579
<b>Residential Heating - R-4</b>								
Customer Charge per Month per Meter	\$ 6.31			\$ 6.31	\$ 6.31			\$ 6.31
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.1110	\$ 0.8220	\$ 0.0641	\$ 0.9971	\$ 0.1110	\$ 0.7084	\$ 0.0404	\$ 0.8598
All therms over the first block per month at	\$ 0.0836	\$ 0.8220	\$ 0.0641	\$ 0.9697	\$ 0.0836	\$ 0.7084	\$ 0.0404	\$ 0.8324
<b>Commercial/Industrial - G-41</b>								
Customer Charge per Month per Meter	\$ 39.45			\$ 39.45	\$ 39.45			\$ 39.45
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.3344	\$ 0.8234	\$ 0.0422	\$ 1.2000	\$ 0.3344	\$ 0.7087	\$ 0.0194	\$ 1.0625
All therms over the first block per month at	\$ 0.2175	\$ 0.8234	\$ 0.0422	\$ 1.0831	\$ 0.2175	\$ 0.7087	\$ 0.0194	\$ 0.9456
<b>Commercial/Industrial - G-42</b>								
Customer Charge per Month per Meter	\$ 112.73			\$ 112.73	\$ 112.73			\$ 112.73
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.2971	\$ 0.8234	\$ 0.0422	\$ 1.1627	\$ 0.2971	\$ 0.7087	\$ 0.0194	\$ 1.0252
All therms over the first block per month at	\$ 0.1962	\$ 0.8234	\$ 0.0422	\$ 1.0618	\$ 0.1962	\$ 0.7087	\$ 0.0194	\$ 0.9243
<b>Commercial/Industrial - G-43</b>								
Customer Charge per Month per Meter	\$ 473.45			\$ 473.45	\$ 473.45			\$ 473.45
All therms over the first block per month at	\$ 0.1789	\$ 0.8234	\$ 0.0422	\$ 1.0445	\$ 0.0819	\$ 0.7087	\$ 0.0194	\$ 0.8100
<b>Commercial/Industrial - G-51</b>								
Customer Charge per Month per Meter	\$ 39.45			\$ 39.45	\$ 39.45			\$ 39.45
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.2168	\$ 0.8186	\$ 0.0422	\$ 1.0776	\$ 0.2168	\$ 0.7077	\$ 0.0194	\$ 0.9439
All therms over the first block per month at	\$ 0.1400	\$ 0.8186	\$ 0.0422	\$ 1.0008	\$ 0.1400	\$ 0.7077	\$ 0.0194	\$ 0.8671
<b>Commercial/Industrial - G-52</b>								
Customer Charge per Month per Meter	\$ 112.73			\$ 112.73	\$ 112.73			\$ 112.73
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.1692	\$ 0.8186	\$ 0.0422	\$ 1.0300	\$ 0.1244	\$ 0.7077	\$ 0.0194	\$ 0.8515
All therms over the first block per month at	\$ 0.1148	\$ 0.8186	\$ 0.0422	\$ 0.9756	\$ 0.0716	\$ 0.7077	\$ 0.0194	\$ 0.7987
<b>Commercial/Industrial - G-53</b>								
Customer Charge per Month per Meter	\$ 484.72			\$ 484.72	\$ 484.72			\$ 484.72
All therms over the first block per month at	\$ 0.1222	\$ 0.8186	\$ 0.0422	\$ 0.9830	\$ 0.0585	\$ 0.7077	\$ 0.0194	\$ 0.7856
<b>Commercial/Industrial - G-54</b>								
Customer Charge per Month per Meter	\$ 484.72			\$ 484.72	\$ 484.72			\$ 484.72
All therms over the first block per month at	\$ 0.0399	\$ 0.8186	\$ 0.0422	\$ 0.9007	\$ 0.0216	\$ 0.7077	\$ 0.0194	\$ 0.7487

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 Nickolas Stavropoulos  
 Title: President

Anticipated Cost of Gas

PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2010 THROUGH APRIL 30, 2011  
(REFER TO TEXT ON IN SECTION 16 COST OF GAS CLAUSE)

(Col 1)	(Col 2)	(Col 3)
<b>ANTICIPATED DIRECT COST OF GAS</b>		
<b>Purchased Gas:</b>		
Demand Costs:	\$ 8,314,931	
Supply Costs:	39,083,750	
<b>Storage Gas:</b>		
Demand, Capacity:	\$ 1,055,525	
Commodity Costs:	7,649,468	
<b>Produced Gas:</b>		
	1,255,498	
<b>Hedged Contract (Saving)/Loss</b>		
Hedge Underground Storage Contract (Saving)/Loss	5,704,479	
	<u>563,657</u>	
<b>Unadjusted Anticipated Cost of Gas</b>		\$ 63,627,308
<b>Adjustments:</b>		
Prior Period (Over)/Under Recovery (as of 10/31/10)	\$ 2,985,736	
Interest	101,158	
Prior Period Adjustments	-	
Broker Revenues	(754,779)	
Refunds from Suppliers	-	
Fuel Financing	130,835	
Transportation CGA Revenues	(31,147)	
Interruptible Sales Margin	-	
Capacity Release and Off System Sales Margins	(730,714)	
Hedging Costs	-	
Fixed Price Option Administrative Costs	40,691	
<b>Total Adjustments</b>	<u>40,691</u>	<u>1,741,780</u>
<b>Total Anticipated Direct Cost of Gas</b>		\$ 65,369,088
<b>Anticipated Indirect Cost of Gas</b>		
<b>Working Capital:</b>		
Total Anticipated Direct Cost of Gas 11/01/10 - 04/30/11)	\$ 63,627,308	
Lead Lag Days	10.18	
Prime Rate	3.25%	
Working Capital Percentage	0.091%	
Working Capital	\$ 57,674	
Plus: Working Capital Reconciliation (Acct 142.20)	<u>(481,137)</u>	
Total Working Capital Allowance		(423,463)
<b>Bad Debt:</b>		
Total Anticipated Direct Cost of Gas 11/01/10 - 04/30/11)	\$ 63,627,308	
Less: Refunds	-	
Plus: Total Working Capital	(423,463)	
Plus: Prior Period (Over)/Under Recovery	<u>2,985,736</u>	
Subtotal	\$ 66,189,582	
Bad Debt Percentage	<u>2.40%</u>	
Bad Debt Allowance	\$ 1,588,550	
Plus: Bad Debt Reconciliation (Acct 175.52)	<u>(20,082)</u>	
Total Bad Debt Allowance		\$ 1,568,468
<b>Production and Storage Capacity</b>		
		\$ 1,749,387
Miscellaneous Overhead (11/01/10 - 04/30/11)	\$ 25,381	
Times Winter Sales	83,088	
Divided by Total Sales	<u>104,919</u>	
<b>Miscellaneous Overhead</b>		<u>20,100</u>
<b>Total Anticipated Indirect Cost of Gas</b>		\$ 2,914,492
<b>Total Cost of Gas</b>		<u>\$ 68,283,580</u>

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CALCULATION OF FIRM SALES COST OF GAS RATE  
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2010 THROUGH APRIL 30, 2011  
(Refer to Text in Section 16 Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 65,369,088	
Projected Prorated Sales (11/01/10 - 04/30/11)	83,071,582	
<b>Direct Cost of Gas Rate</b>		\$ 0.7869 per therm
<b>Demand Cost of Gas Rate</b>	\$ 9,370,456	\$ 0.1128 per therm
<b>Commodity Cost of Gas Rate</b>	54,256,852	\$ 0.6531 per therm
<b>Adjustment Cost of Gas Rate</b>	<u>1,741,780</u>	<u>\$ 0.0210 per therm</u>
<b>Total Direct Cost of Gas Rate</b>	\$ 65,369,088	\$ 0.7869 per therm
Total Anticipated Indirect Cost of Gas	\$ 2,914,492	
Projected Prorated Sales (11/01/10 - 04/30/11)	83,071,582	
<b>Indirect Cost of Gas</b>		\$ 0.0351 per therm
<b>TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/10</b>		<b>\$ 0.8220 per therm</b>
<b>RESIDENTIAL COST OF GAS RATE - 11/01/10</b>		
	<b>COGwr</b>	<b>\$ 0.8220 /therm</b>

Maximum (COG + 25%) \$ 1.0275

<b>COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/10</b>	<b>COGwl</b>	<b>\$ 0.8186 /therm</b>
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Average Demand Cost of Gas Rate Effective 11/01/10	\$ 0.1128		
Times: Low Winter Use Ratio (Winter)	0.9641	Maximum (COG + 25%)	\$ 1.0233
Times: Correction Factor	<u>1.00630</u>		
Adjusted Demand Cost of Gas Rate	<u>\$ 0.1094</u>		
Commodity Cost of Gas Rate	\$ 0.6531		
Adjustment Cost of Gas Rate	\$ 0.0210		
Indirect Cost of Gas Rate	<u>\$ 0.0351</u>		
Adjusted Com/Ind Low Winter Use Cost of Gas Rate	<u>\$ 0.8186</u>		

<b>COM/IND HIGH WINTER USE COST OF GAS RATE -11/01/10</b>	<b>COGwh</b>	<b>\$ 0.8234 /therm</b>
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Average Demand Cost of Gas Rate Effective 11/01/10	\$ 0.1128		
Times: High Winter Use Ratio (Winter)	1.0063	Maximum (COG + 25%)	\$ 1.0293
Times: Correction Factor	<u>1.0063</u>		
Adjusted Demand Cost of Gas Rate	<u>\$ 0.1142</u>		
Commodity Cost of Gas Rate	\$ 0.6531		
Adjustment Cost of Gas Rate	\$ 0.0210		
Indirect Cost of Gas Rate	<u>\$ 0.0351</u>		
Adjusted Com/Ind High Winter Use Cost of Gas Rate	<u>\$ 0.8234</u>		

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II. RATE SCHEDULES  
CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE  
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2010 THROUGH APRIL 30, 2011  
(Refer to Text in Section 17(A) Fixed Price Option Program)

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 65,369,088	
Projected Prorated Sales (11/01/10 - 04/30/11)	83,071,582	
<b>Direct Cost of Gas Rate</b>		\$ 0.7869 per therm
<b>Demand Cost of Gas Rate</b>	\$ 9,370,456	\$ 0.1128 per therm
<b>Commodity Cost of Gas Rate</b>	54,256,852	\$ 0.6531 per therm
<b>Adjustment Cost of Gas Rate</b>	<u>1,741,780</u>	<u>\$ 0.0210 per therm</u>
<b>Total Direct Cost of Gas Rate</b>	\$ 65,369,088	\$ 0.7869 per therm
Total Anticipated Indirect Cost of Gas	\$ 2,914,492	
Projected Prorated Sales (11/01/10 - 04/30/11)	83,071,582	
<b>Indirect Cost of Gas</b>		\$ 0.0351 per therm
<b>TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 40483</b>		<b>\$ 0.8220</b>
<b>FPO Risk Premium</b>		<b>\$ 0.0200</b>
<b>TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE 40483</b>		<b>\$ 0.8420</b>

<b>RESIDENTIAL COST OF GAS RATE - 11/01/10</b>	<b>COGwr</b>	<b>\$ 0.8420 /therm</b>
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<b>COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/10</b>	<b>COGwl</b>	<b>\$ 0.8386 /therm</b>
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Average Demand Cost of Gas Rate Effective 40483	\$ 0.1128
Times: Low Winter Use Ratio (Winter)	\$ 0.9641
Times: Correction Factor	<u>1.0063</u>
<b>Adjusted Demand Cost of Gas Rate</b>	<b>\$ 0.1094</b>
Commodity Cost of Gas Rate	\$ 0.6531
Adjustment Cost of Gas Rate	\$ 0.0210
Indirect Cost of Gas Rate	<u>\$ 0.0351</u>
<b>Adjusted Com/Ind Low Winter Use Cost of Gas Rate</b>	<b>\$ 0.8186</b>
FPO Risk Premium	<u>\$ 0.0200</u>
	<b>\$ 0.8386</b>

<b>COM/IND HIGH WINTER USE COST OF GAS RATE -11/01/10</b>	<b>COGwh</b>	<b>\$ 0.8434 /therm</b>
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Average Demand Cost of Gas Rate Effective 40483	\$ 0.1128
Times: High Winter Use Ratio (Winter)	\$ 1.0063
Times: Correction Factor	<u>1.0063</u>
<b>Adjusted Demand Cost of Gas Rate</b>	<b>\$ 0.1142</b>
Commodity Cost of Gas Rate	\$ 0.6531
Adjustment Cost of Gas Rate	\$ 0.0210
Indirect Cost of Gas Rate	<u>\$ 0.0351</u>
<b>Adjusted Com/Ind Low Winter Use Cost of Gas Rate</b>	<b>\$ 0.8234</b>
FPO Risk Premium	<u>\$ 0.0200</u>
	<b>\$ 0.8434</b>

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II. RATE SCHEDULES

Calculation of Firm Transportation Cost of Gas Rate  
 PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2010 THROUGH APRIL 30, 2011  
 (Refer to text in Section 16(Q) Firm Transportation Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)	(Col 4)
ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES:			
PROPANE	\$ 824,271		
LNG	<u>431,227</u>		
TOTAL ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES	1,255,498		
ESTIMATED PERCENTAGE USED FOR PRESSURE SUPPORT PURPOSES	<u>12.4%</u>		
ESTIMATED COST OF LIQUIDS USED FOR PRESSURE SUPPORT PURPOSES	<u>\$ 155,682</u>		
PROJECTED FIRM THROUGHPUT (THERMS):			
FIRM SALES	83,088,481	70.6%	
FIRM TRANSPORTATION SUBJECT TO FTCCG	<u>34,607,498</u>	<u>29.4%</u>	
TOTAL FIRM THROUGHPUT SUBJECT TO COST OF GAS CHARGE	117,695,979	100.0%	
TRANSPORTATION SHARE OF SUPPLEMENTAL GAS SUPPLIES	29.4%	x	\$ 155,682 = \$ 45,777
PRIOR (OVER) OR UNDER COLLECTION			<u>(13,665)</u>
NET AMOUNT TO COLLECT FROM (RETURNED TO) TRANSPORTATION CUSTOMERS			\$ 32,112
PROJECTED FIRM TRANSPORTATION THROUGHPUT			34,607,498
FIRM TRANSPORTATION COST OF GAS ADJUSTMENT			\$0.0009

**Environmental Surcharge - Manufactured Gas Plants**

**Manufactured Gas Plants**

Required annual increase in rates	\$0
Estimated weather normalized firm therms billed for the twelve months ended 10/31/10 - sales and transportation	158,020,633 therms
Surcharge per therm	<u>\$0.0000</u> per therm
<b><u>Total Environmental Surcharge</u></b>	<u>\$0.0000</u>

Rate Case Expense/Temporary Rate Reconciliation (RDE) Factor Calculation

Rate Case Expense Factors for Residential Customers

Rate Case Expense	\$	-
Temporary Rate Reconciliation		-
Rate Case Expense Reconciliation Adjustment		-
Total Rate Case Expense/Temporary Rate Reconciliation Recoverable	\$	-

Forecasted Annual Throughput Volumes for Residential Customer (A:VOLres)	60,288,480
Forecasted Annual Throughput Volumes for Commercial/Industrial Customer (A:VOLc&i)	97,732,153
Total Volumes	158,020,633
Rate Case Expense Factor	\$ -

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**Local Distribution Adjustment Charge Calculation**

**Residential Non Heating Rates - R-1**

Energy Efficiency Charge	\$0.0525	
Demand Side Management Charge	0.0000	
Conservation Charge (CCx)	<u>0.0000</u>	\$0.0525
Relief Holder and pond at Gas Street, Concord, NH	0.0000	
Manufactured Gas Plants	<u>0.0000</u>	
Environmental Surcharge (ES)		0.0000
DG 06-107 Merger Emergency Response Incentive		0.0000
Interruptible Transportation Margin Credit (ITMC)		0.0000
Rate Case Expense Factor (RCEF)		0.0000
Residential Low Income Assistance Program (RLIAP)		<u>0.0116</u>
<b>LDAC</b>		<b>\$0.0641 per therm</b>

**Residential Heating Rates - R-3, R-4**

Energy Efficiency Charge	\$0.0525	
Demand Side Management Charge	0.0000	
Conservation Charge (CCx)	<u>0.0000</u>	\$0.0525
Relief Holder and pond at Gas Street, Concord, NH	0.0000	
Manufactured Gas Plants	<u>0.0000</u>	
Environmental Surcharge (ES)		0.0000
DG 06-107 Merger Emergency Response Incentive		0.0000
Rate Case Expense Factor (RCEF)		0.0000
Residential Low Income Assistance Program (RLIAP)		<u>0.0116</u>
<b>LDAC</b>		<b>\$0.0641 per therm</b>

**Commercial/Industrial Low Annual Use Rates - G-41, G-51**

Energy Efficiency Charge	\$0.0306	
Demand Side Management Charge	0.0000	
Conservation Charge (CCx)	<u>0.0000</u>	\$0.0306
Relief Holder and pond at Gas Street, Concord, NH	0.0000	
Manufactured Gas Plants	<u>0.0000</u>	
Environmental Surcharge (ES)		0.0000
DG 06-107 Merger Emergency Response Incentive		0.0000
Gas Restructuring Expense Factor (GREF)		0.0000
Rate Case Expense Factor (RCEF)		0.0000
Residential Low Income Assistance Program (RLIAP)		<u>0.0116</u>
<b>LDAC</b>		<b>\$0.0422 per therm</b>

**Commercial/Industrial Medium Annual Use Rates - G-42, G-52**

Energy Efficiency Charge	\$0.0306	
Demand Side Management Charge	0.0000	
Conservation Charge (CCx)	<u>0.0000</u>	\$0.0306
Relief Holder and pond at Gas Street, Concord, NH	0.0000	
Manufactured Gas Plants	<u>0.0000</u>	
Environmental Surcharge (ES)		0.0000
DG 06-107 Merger Emergency Response Incentive		0.0000
Gas Restructuring Expense Factor (GREF)		0.0000
Rate Case Expense Factor (RCEF)		0.0000
Residential Low Income Assistance Program (RLIAP)		<u>0.0116</u>
<b>LDAC</b>		<b>\$0.0422 per therm</b>

**Commercial/Industrial Large Annual Use Rates - G-43, G-53, G-54**

Energy Efficiency Charge	\$0.0306	
Demand Side Management Charge	0.0000	
Conservation Charge (CCx)	<u>0.0000</u>	\$0.0306
Relief Holder and pond at Gas Street, Concord, NH	0.0000	
Manufactured Gas Plants	<u>0.0000</u>	
Environmental Surcharge (ES)		0.0000
DG 06-107 Merger Emergency Response Incentive		0.0000
Gas Restructuring Expense Factor (GREF)		0.0000
Rate Case Expense Factor (RCEF)		0.0000
Residential Low Income Assistance Program (RLIAP)		<u>0.0116</u>
<b>LDAC</b>		<b>\$0.0422 per therm</b>

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### III DELIVERY TERMS AND CONDITIONS

NHPUC NO. 6 – GAS  
NATIONAL GRID NH

Second Revised Page 155  
Superseding *First Revised* Page 155

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#### ATTACHMENT B

#### Schedule of Administrative Fees and Charges

- |      |                            |  |
|------|----------------------------|--|
| I.   | Supplier Balancing Charge: | \$0.11 per MMBtu of Daily Imbalance Volumes*                       |
| II.  | Capacity Mitigation Fee    | 15% of the Proceeds from the Marketing of Capacity for Mitigation. |
| III. | Peaking Demand Charge      | \$18.48 MMBTU of Peak MDQ.   |

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### III DELIVERY TERMS AND CONDITIONS

NHPUC NO. 6 – GAS  
NATIONAL GRID NH

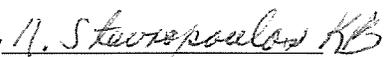
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ATTACHMENT C

CAPACITY ALLOCATORS

Rate Class		Pipeline	Storage	Peaking	Total
G-41	Low Annual / High Winter Use	38.0%	21.0%	41.0%	100.0%
G-51	Low Annual / Low Winter Use	50.0%	17.0%	33.0%	100.0%
G-42	Medium Annual / High Winter	38.0%	21.0%	41.0%	100.0%
G-52	High Annual / Low Winter Use	50.0%	17.0%	33.0%	100.0%
G-43	High Annual / High Winter	38.0%	21.0%	41.0%	100.0%
G-53	High Annual / Load Factor < 90%	50.0%	17.0%	33.0%	100.0%
G-54	High Annual / Load Factor < 90%	50.0%	17.0%	33.0%	100.0%

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Issued: By   
Nickolas Stavropoulos  
Title: President

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