NEW HAMPSHIRE GAS COST FILING EFFECTIVE MAY 1, 2007 INDEX

- 1. CGA Filing Letter
- 2. Prefiled Testimony of Ronald D. Gibbons
- 3. Prefiled Testimony of Joseph A. Ferro
- 4. Tariff Pages

Thirty-first Revised Page 38

Thirty-first Revised Page 39

- 5. Gas Cost Exhibits
- 6. Forecast Sales Exhibits
- 7. Allocation Exhibits
- 8. Supplier Prices
- 9. Interest on Deferred
- 10. Variance Analysis
- 11. Typical Bill Analysis
- 12. Hedging

en concern a c

- 13. SMBA vs. MBA
- 14. Reconciliation

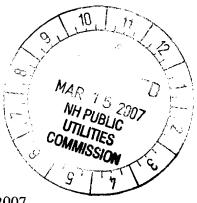


300 Friberg Parkway Westborough, Massachusetts 01581 (508) 836-7394 (508) 836-7039 (facsimile) pfrench@nisource.com

March 15, 2007

VIA ELECTRONIC FILING AND FIRST CLASS MAIL

Ms. Debra Howland Executive Director and Secretary New Hampshire Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, NH 03301



Re: Northern Utilities, Inc., Proposed Cost of Gas Filing for the Summer Period of May 2007 through October 2007

Dear Ms. Howland:

Enclosed please find an original and eight (8) copies of the direct testimony of Ronald D. Gibbons and Joseph A. Ferro pertaining to the Company's 2007 Summer Period Cost of Gas Filing.

Please take note that an electronic version of the filed information in Excel was emailed to Staff.

If you have any questions or need additional information, please do not hesitate to telephone me. Please return one copy of this letter bearing the Commission's receipt stamp in the return envelope, which has been provided for your convenience.

Very truly yours, tricia M. French cia M. French in RDE

Enclosures

cc: Kenneth Traum, Office of Public Advocate Joseph A. Ferro Ronald D. Gibbons

Patricia M. French Lead Counsel

1 2 3 4 5 6 7		NORTHERN UTILITIES, INC. NEW HAMPSHIRE DIVISION SUMMER PERIOD 2007 COST OF GAS ADJUSTMENT FILING PREFILED TESTIMONY OF <u>RONALD D. GIBBONS</u>
8	Q.	Please state your name and business address.
9	A.	Ronald D. Gibbons, 200 Civic Center Drive, Columbus, Ohio 43215.
10		
11	Q.	By whom are you employed?
12	A.	I am employed by NiSource Corporate Services Company ("NCSC"), a management and
13		services subsidiary of NiSource Inc. ("NiSource") and affiliate of Northern Utilities, Inc.
14		("Northern").
5		
16	Q.	What positions have you held during your employment with NiSource and its predecessors?
17	A.	Since my employment in January 1981 by the Columbia Gas System Service Corporation,
18		the predecessor of NCSC, I have held positions of increasing responsibility in the
19		accounting department (1981-1984), as an auditor (1984-1989), and in the regulatory
20		accounting department (1989-present). I was promoted to my present position, Manager of
21		Regulatory Accounting, in May 2006.
22		
23	Q.	What are your present duties and responsibilities as Manager of Regulatory Accounting?
24	А.	Since the merger of Columbia Energy Group and NiSource in November 2000, I have been
25		responsible for coordinating and preparing data and reports required to support the recovery
6		of gas costs as well as assisting in the preparation of rate case data and exhibits for Northern.

1		In my current position as Manager, my responsibilities have increased to include all
2		regulatory accounting activities for Northern, Bay State Gas Company ("Bay State") and
3		Columbia Gas of Maryland. In the past, my work has included gas cost recovery activities
4		and filings for Northern's affiliates Columbia Gas of Kentucky, Columbia Gas of Maryland,
5		Columbia Gas of Pennsylvania and Columbia Gas of Virginia. I also assist the Director of
6		Regulatory Services on various types of regulatory activities.
7		
8	Q.	What is your educational background?
9	A.	I graduated from The Ohio State University in 1980 with a Bachelor of Science degree in
10		Administrative Science. My major was accounting. I have also attended several ratemaking
11		seminars sponsored by universities and trade associations.
2		
13	Q.	Have you previously testified before any regulatory bodies?
14	A.	Yes. I have testified before the Public Service Commission of Kentucky, the Public Service
15		Commission of Maryland, the Maine Public Utilities Commission ("MPUC" or "the
16		Commission") and the New Hampshire Public Utilities Commission ("NHPUC").
17		
18	Q.	Please explain the purpose of your prepared direct testimony in this proceeding.
19	А.	The purpose of my testimony is to explain the calculation of the Cost of Gas ("COG") to be
20		billed by Northern from May 1, 2007 to October 31, 2007. I will explain the derivations of
21		the rates used in the forecast by the Company's gas suppliers and upstream transporters. I
22		will also explain the forecast of sales and resulting sendout requirements for the Summer
23		2007 Period. In addition, I have incorporated the prior period over-collection filing in my
.4		testimony.

1		
2		COST OF GAS ADJUSTMENT
3		
4	Q.	Would you please explain tariff page Proposed Thirty-first Revised Page 38 and Thirty-first
5		Revised Page 39?
6	A.	Proposed Thirty-first Revised Page 38 and Thirty-first Page 39 contain the calculation of the
7		2007 Summer Cost of Gas rate and summarize the Company's forecast of gas SENDOUT [®]
8		and gas costs. The estimated total anticipated cost of gas from May 1, 2007 to October 31,
9		2007 is \$10,356,062.
10		
11		The Gas Cost section presents the forecast commodity and capacity volumes and costs
12		allocated to the New Hampshire Division.
13		
14		To derive the Total Anticipated Period Cost of Gas of \$9,778,934, the following charges,
15		including the indirect gas costs, have been added to the \$10,356,062 Total Anticipated
16		Direct Cost of Gas:
17		1.) Prior Period Over Collection- (\$633,021).
18		2.) Interest Expense- (\$25,124).
19		3.) Total Working Capital Allowance- \$15,449.
20		4.) Total Bad Debt Allowance- \$36,731.
21		5.) Miscellaneous Overhead- \$28,837.
22		
23		
24		
25		The Total Anticipated Cost of Gas Adjustment of \$0.8866 per therm was determined using
. 6		the forecasted firm sales volumes of 11,029,620 therms as well as the direct and indirect
27		anticipated cost of gas as shown on tariff sheet, Page 39.

2

Q. How are you calculating the overall Demand and Commodity COG factors?

Α. Proposed Thirty-first Revised Page 38 and Thirty-first Revised Page 39 details the 3 commodity and demand costs as well as the calculation of the 2007 Summer Period Cost of 4 Gas rate by rate category-residential, low winter and high winter. The costs were assigned 5 to the Summer Period for each of the Company's firm sales customer classes. The 6 assignment of costs between the Winter and Summer Periods and among the customer 7 classes was developed using the Simplified Market Based Allocation Method ("SMBA"). 8 Northern is proposing to implement the SMBA method in place of the "seasonal average 9 rate and ratio" method. The Summer Period Demand and Commodity costs as well as the 10 indirect costs for each customer category were then divided by the forecasted sales volumes 11 12 for each customer category to arrive at class/category specific Summer Period. The change to using the SMBA method is discussed in more depth in separate testimony filed in this - 13 proceeding by Joseph A. Ferro. 14

15

Q. Please explain the basis for allocating the fixed, capacity-related demand cost between the
 Maine Division and New Hampshire Division of Northern.

18 A. These costs are allocated between the divisions based on the Modified Proportional 19 Responsibility ("MPR") methodology, which allocates the fixed capacity-related gas costs based on the demand each division places on the available capacity each month. The MPR 20 methodology was approved by the Commission on December 23, 2005, effective January 1, 21 22 2006, pursuant to the New Hampshire Commission-approved Settlement in DG 05-080 and the Maine Commission-approved Settlement in Docket Nos. 2005-87 and 2005-273. 23 24 Accordingly, the MPR method was used to establish the proportional cost responsibility of 25 Northern's Maine Division and Northern's New Hampshire Division. The workpapers 5 supporting the MPR factors also reflect the settlement reached in DG 05-080 as well as in 27 the Maine Division dockets, Docket Nos. 2005-077 and 2005-473, and are provided in the

Allocation

2

1

.

4		
3	Q.	Are these allocations the same as those determined in the Winter Period 2006-2007 filing?
4	A.	No. While analyzing how the new SMBA method compares with the Market based
5		Allocation (MBA) method for Northern's Maine Division Off-peak Cost of Gas filing, a
6		small error was found in the MPR calculation. Due to a cell reference error, the Maine
7		Division and New Hampshire Division percentages were reversed (50.46% vs. 49.54%) in
8		the Winter Period 2006-2007 calculation. The workpapers in this filing reflect the correct
9		percentages. The correct percentages are also being used to record the actual demand costs
10		between the two divisions for the 2006-2007 Winter Period, beginning for the month of
11		November 2006.
12		
- 13	Q.	What is the basis for allocating the variable gas costs between Northern's Maine and New
14		Hampshire Divisions?
15	А.	The variable gas costs have been allocated between Northern's Maine Division and New
16		Hampshire Division on the basis of each division's percentage of monthly firm SENDOUT [®] .
17		The monthly variable allocation factors are shown in the Allocation section.
18		
19	Q.	How do costs, allocated between the Maine and New Hampshire Divisions and between the
20		Winter and Summer Periods, compare using the proposed SMBA method and the previous
21		methodology?
22	A.	Using the same pricing and dispatch data for the annual period of May 2007 through April
23		2008 that has been used for the proposed Cost of Gas submitted in this filing, I have
24		compared the commodity and demand costs allocated between the Maine and New
25		Hampshire Divisions and between the Summer and Winter periods in a schedule included in

5 the "SMBA vs. MBA" section of the filing.

With respect to commodity costs, under both methods this schedule shows that the New 1 Hampshire Division is being allocated 53.9% of total Northern costs. This schedule also 2 3 shows that there is a very slight shift of costs from the Summer to Winter Period as Northern Summer Period costs are higher by \$29,240, or 0.19%; New Hampshire Division Summer 4 costs are higher by \$17,126, or the same 0.19%. While these cost allocations are based on 5 modeling forecast data (to set COG rates), commodity costs are ultimately allocated based 6 on actual commodity costs and allocated between the Maine and New Hampshire Divisions 7 based on actual firm sendout allocation percentages. 8

10 Q. What does your comparative analysis show with respect to demand costs?

Α. With respect to demand costs the two divisions are being allocated the same percentage of 11 demand costs, on an annual basis, that was allocated in the Winter 2006-2007 COG process. 12 The New Hampshire Division is allocated less demand costs in the Summer Period and - 13 more costs in the Winter Period. This seasonal shift in demand costs is a function of the 14 SMBA allocating capacity costs on a design day basis, while the "seasonal average rate and 15 ratio" method allocates capacity on the basis of using weighted design year monthly 16 allocations, as explained in Mr. Ferro's testimony. The allocation of demand costs, both in 17 the model and for recording actual costs, are based on the Modified PR Allocator set once a 18 year on November 1. The actual demand costs will be seasonally allocated based on the 19 results of the SMBA model, by using the percentage of annual demand costs allocated to 20 each season for each resource category. 21

22

- 23
- •~4
- 25

-		PRIOR PERIOD OVERCOLLECTION
2		
3	Q.	Please explain the prior Summer Period over collection of \$633,021 shown on Thirty-first
4		Revised Page 39.
5	A.	The reconciliation analysis that was filed with the Commission on January 29, 2007, and
6		included in the Reconciliation section of this filing, provides the support for \$611,704 of the
7		over-collection.
8		
9		FORECASTED PURCHASE GAS PRICES
10 11	Q.	Please explain the basis for projecting costs for the purchases of Canadian gas supplies.
12	A.	Northern has firm entitlements of up to approximately 2,400 Dth/day of year-round
. 13		Canadian supplies directly from Northeast Gas Marketing (NEGM). The forecasted price of
14		NEGM was based on the February 28, 2007 NYMEX prices plus a differential. Domestic
15		supplies are forecasted based on NYMEX prices from February 28, 2007, plus the cost to
16		transport the gas to the city gate.
17		
18	Q.	Please explain the basis for the projected costs of the Company's domestic gas supply
19		purchases.
20	A.	The Company will purchase all of its domestic supply on a short-term (monthly, daily) basis
21		for the Summer Period. The commodity forecast for domestic supplies rely on monthly gas
22		indices for which the NYMEX Natural Gas Futures prices of February 28, 2007 were used.
23		The transportation costs are forecasted based on the route the sendout model chooses that
24		the gas will travel. The sendout model provides the forecasted MMBtus transported on each
.5		of the upstream pipelines. The sendout on each pipeline is then multiplied by the

appropriate upstream unit commodity costs and added to the monthly gas indices.

2

Q. Please explain how the Company's hedging activity for gas purchases for May and October
2007 have been reflected in the 2007 Summer period commodity costs.

5 A. The Company has executed hedges for 40% of its natural gas requirements for the months of 6 May and October 2007 at various prices throughout the past twelve months. The aggregate 7 current position (gains or losses) of all executed hedging transactions for May and October 8 is reflected in Proposed Thirty-first Revised Page 38. The hedging transaction "Profit and 9 Loss Statement" showing a projected aggregate loss of \$126,764 for all hedge positions for 10 May and October 2007 based on the respective months February 28, 2006 NYMEX Natural 11 Gas Futures prices is provided in the Hedging section.

12

Q. Has the Company established new price triggers for its hedging program, which was
approved in Commission Order No. 24,037 in Docket No. DG 02-137?

A. Yes. Pursuant to Order No. 24,037 dated August 16, 2002 in Docket No. DG 02-137, 15 Northern has been directed to provide the Commission, in its semi-annual COG 16 17 proceedings, its recommendation for new price targets for the price-triggered component of the hedging program, or alternatively, why the current targets are appropriate. The 18 19 Company typically re-establishes its price targets every six months, prior to each COG season. These price triggers are based on trigger points set at the 65th, 35th and 20th 20 percentiles of a matrix of NYMEX traded futures contracts analyzed by Risk Management 21 Inc. (RMI), an independent consultant retained by the Company. The RMI price matrix is 22 23 adjusted for inflation and weighted, with 20% of the price being attributed to the most recent 24 year (short-term) and 80% being attributed to the last four years (long-term). This scaled 25 distribution gives the matrix a slight bias toward recent prices, allowing for greater market 5 sensitivity to the current environment. This market sensitivity is needed because these 27 weighted prices are broken into deciles for the purposes of developing meaningful buy or

trigger points. The Hedging section of the filing presents the RMI Matrix that sets forth the L updated price triggers per MMBtu of \$7.655, \$6.735 and \$6.24 for the 65th, 35th and 20th 2 percentile, respectively. 3 4 FORECASTED TRANSPORTATION COSTS 5 6 Q. Please explain the basis for the Company's forecasted pipeline reservation and commodity 7 charges for transportation services included in this COG filing. 8 Northern currently has entitlement to firm transportation capacity on eleven (11) interstate 9 Α. pipeline companies: Tennessee Gas Pipeline Company ("Tennessee"), Iroquois Gas 10 Transmission System ("Iroquois"), Algonquin Gas Transmission Company ("Algonquin"), 11 Texas Eastern Transmission Corporation ("Texas Eastern"), Transcontinental Gas Pipe Line 12 Company ("TGP"), Dominion Transmission Corporation ("Dominion"), Granite State Gas 3 14 Transmission, Inc. ("Granite"), TransCanada Pipeline ("TransCanada"), Union Gas ("Union"), Vector Pipeline ("Vector") and Portland Natural Gas Transmission System 15 ("PNGTS"). The Supplier Prices Section reflects the maximum daily transportation quantity 16 (MDTQ) of firm capacity that Northern has with each of the above pipelines. As an 17 18 interstate pipeline, each company is regulated by the Federal Energy Regulatory 19 Commission (FERC) and is required to file tariffs reflecting its rates for transportation services. For purposes of forecasting pipeline reservation and commodity charges, the rates 20 reflected on each pipeline's currently effective tariff sheets have been applied to the 21 applicable contracted MDTQ and to the forecasted transportation quantities, with the 22 23 exception of Granite reservation charges. Granite reservation charges are in accordance 4 with a negotiated contract between Granite and Northern, for the five-year term of

9

- 1		November 1, 2003 through October 31, 2008, for an MDTQ of 100,000 Dth at the
2		discounted monthly rate of \$1.2639 per Dth. This contract was approved by the
3		Commission in Docket No. 2003-762.
4		The Supplier Prices Section contains the currently effective pipelines' tariff sheets and
5		summaries of the pipeline reservation and product demand charges allocated to the New
6		Hampshire Division
7		
8		
9		OTHER SUPPLY COSTS
10		
11	Q.	Please explain how you estimated the rate for the LNG boil-off during the Summer Period.
12	A.	The LNG of \$8.6305 per MMBtu, is the average cost of LNG boil-off to be withdrawn from
3		inventory between May 1, 2007 and October 31, 2007.
14		
15	Q.	Will the Company propose to revise the COG if it receives any new or updated information
16		on supplier or transportation rates?
17	А.	Yes. If the Company receives more accurate or updated information on Northern's
18		forecasted supplier/transportation rates, it will assess whether a revised COG proposal is
19		warranted. If the different rate information materially changes the proposed COG and if
20		time permits before the hearing date, it will then notify all parties to this proceeding and
21		make a revised filing. Such updated rate information will include the latest NYMEX natural
22		gas prices, which the Company will review within reasonable lead-time prior to the hearing.
23		
24		SALES AND SENDOUT FORECAST
_25		
∠6	Q.	Please compare forecasted sales for the COG period with normalized sales for the same

period last year.

2

A. Sales for the COG period are projected to increase by 0.5% for the residential class and
1.5% for C&I. The increases are driven mainly by customer growth, with the residential
growth rate reduced by projected conservation.

6

7 Q. How does the Company forecast firm sales and transportation?

8 A. For the residential and small commercial forecasts, the Company relies upon econometric 9 and time-series techniques for two components: use per meter and the number of meters. 10 Individual forecasts are made for large commercial customers with special contracts. The 11 growth rates for customers and volume from these models are applied to the most recent 12 data normalized for weather.

- 13

14 Q. How does the Company forecast firm sendout?

A. The firm sales and transportation forecast serves as the basis of the sendout forecast. Calendar month firm sales and transportation is converted to a forecast of sendout by applying an unaccounted-for conversion factor that is the average of the most recent four years ending June 30. The unaccounted-for factor reflects the same data that the Company has filed with DOT for each of those four years.

20

21

COG RATE COMPARISON AND BILL IMPACT ANALYSES

22

Q. How does the proposed 2007 Summer COG rate compare with the actual 2006 Summer COG rate?

A. The Variance Analysis Section shows that the difference between the proposed 2007 Summer rate and the average actual cost of gas in the 2006 Summer period to be an increase of \$0.0092 per therm. Of this increase, \$0.0868 per therm can be attributed to an increase in the forecast of commodity prices, which is partially offset by a \$0.0598 per therm decrease in demand costs and a \$0.0154 per therm decrease in the amount of the over/under collection.

- 5 Q. How does the proposed COG rate affect a typical Residential Heating customer's annual and 6 Summer Period bills for the twelve-month and six-month period ended October 2007 7 compared with the twelve-month and six-month period ended October 2006?
- The Typical Bill Analysis Section shows that a typical Residential Heating customer's bill 8 A. for the six months ended October 2007, compared to the six months ended October 2006, 9 10 will decrease by \$34 or 6.6 percent based on typical Summer consumption of 318 therms. This comparison is based on the proposed Summer 2007 residential rate and the actual billed 11 residential rate for each month of the Summer 2006 period. The Typical Bill Analysis 12 - 13 section also details monthly bill comparisons at various consumption levels for a Residential Heating customer and compares those to the average actual gas cost rate calculations for the 14 15 Summer 2006 period. This analysis shows that, based on the average actual gas costs for the Summer 2006 period, the proposed rate is unchanged for the Summer 2007 Summer. 16
 - 17

l

2

3

4

18 Q. Does this conclude your testimony?

19 A. Yes it does.

1 2 3		NORTHERN UTILITIES, INC. NEW HAMPSHIRE DIVISION MODIFICATION OF THE COST OF GAS CALCULATION
4 5		TO A SIMPLIFIED MARKET BASED ALLOCATION ("SMBA") METHOD
6 7 8		PREFILED TESTIMONY OF JOSEPH A. FERRO
9	Q.	Please state your name and business address.
10	A.	Joseph A. Ferro, 300 Friberg Parkway, Westborough, Massachusetts 01581.
11		
12	Q.	What is your position with Northern Utilities, Inc. ("Northern" or the "Company")?
13	А.	My position is Manager, Regulatory Policy.
14		
15	Q.	Please describe your educational background and utility experience.
16	A.	I graduated from the University of Massachusetts/Boston in 1974 with a Bachelor of Arts
17		degree in Mathematics. I later took accounting courses at Massasoit Community College. I
18		have been employed at Bay State Gas Company since 1977, holding various positions in
19		the Customer Relations area before joining the Rate Department in September 1980 as an
20		Associate Rate Analyst. In February 1983 I was promoted to Rate Analyst. In August
21		1987 I was promoted to Senior Rate Analyst. On February 1, 1990 I was promoted to
22		Manager, Gas Costing and Rate Analysis; in 1994 I was promoted to Manager, Rate
23		Services and on August 1, 1998 I was promoted to Director of Pricing Services. On
24		August 16, 1999 I became Director, Revenue Development. Around the completion of the
25		merger between NiSource, Inc. and Columbia Energy Group (around November 1, 2000) I
26		was assigned the position of Manager, Regulatory Policy.

Q. What have been your primary responsibilities in the various positions that you have held
 in the Regulatory Affairs and Rate areas?

Α. My primary responsibilities for Bay State and Northern throughout my years of service 3 4 have included the preparation and support of Cost of Gas Adjustment ("CGA") filings, analyses and forecasting of rates and revenues, supporting adjustments to test year costs as 5 well as determining and sponsoring revenues and billing determinants in Company rate 6 case filings and other rate-related functions. As Director of Pricing Services and Director, 7 Revenue Development, my responsibilities expanded to include directing the analysis and 8 9 filing of rate design proposals including unbundling initiatives, analyzing the feasibility and filing of special rate contracts, administering all rate tariffs, as well as providing the 10 Company with competitive pricing assessments and implementing effective pricing to 11 enhance the Company's ability to retain and profitably grow distribution load. In my 12 current position of Manager, Regulatory Policy, my responsibilities include setting 13 regulatory and pricing policy and carrying out associated Company initiatives. 14

15

16 Q. Are you a member of any industry organizations?

A. Yes. I am a member of the Northeast Gas Association Rates and Planning Group and a
 member of the American Gas Association Rates and Strategic Issues Committee.

19

20 Q. Have you previously testified before any regulatory bodies?

A. Yes. I have testified before the New Hampshire Public Utilities Commission, the
 Massachusetts Department of Telecommunications and Energy (formerly the Department
 of Public Utilities), and the Maine Public Utilities Commission.

• 1

2

Q. Please explain the purpose of your prepared direct testimony.

The purpose of my testimony is to explain the allocation of gas costs using the Simplified 3 Α. Market Based Allocation Method ("SMBA") and associated calculation of Cost of Gas 4 (COG) rates. I will also explain how the COGs using the SMBA compare with the COGs 5 calculated under the current method, which is based on a straight two-season calculation 6 with ratios applied to the average cost of gas to determine the Low Winter and High 7 Winter Use Commercial & Industrial ("C&I") COG rates. The use of these ratios was 8 presented with Northern's 2006 Summer COG filing and approved by the Commission in 9 that proceeding, Docket DG 06-038 in Order No. 24,615 dated April 28, 2006. 10

11

12

CURRENT COST OF GAS CALCULATION

Q. How does Northern currently derive the COG rates for the Residential, C&I Low Winter and C&I High Winter classes?

Northern first calculates a seasonal average cost of gas based on the respective summer 15 Α. (May - October) and winter (November - April) gas costs and associated demand. In the 16 determination of seasonal costs, fixed demand costs incurred in the summer months that 17 are related to providing service in the winter season are deferred to the winter season. 18 19 These deferred costs include a portion of pipeline capacity costs and all underground storage capacity costs. The resulting seasonal average cost of gas is the basis for the 20 Residential COG, while the COGs for the C&I Low Winter and High Winter classes are 21 22 derived by applying load factor based percentages to the average cost of gas.

- 24 Q. How have the ratios been determined?
- A. Pursuant to a Settlement approved by the Commission in Order No. 23,674 dated April 5,

2 2001, in Docket DG 00-046, Northern's Revenue Neutral Rate Redesign, the C&I ratios 2 were first determined based on the Market Based Allocation ("MBA") cost of gas analysis 3 filed in that docket. The Company derived ratios to apply to the system average cost of 4 gas using the MBA-allocated seasonal (Winter/Summer) average cost of gas of each C&I 5 classification. Multiplying each load factor C&I class ratio to the average cost of gas 6 would determine the COG for each respective C&I classification. The ratios resulting 7 from Docket DG 00-046 were as follows:

8		Winter	Summer
9	C&I High Winter	1.07588	1.07584
10	C&I Low Winter	0.72633	0.93833

12 Q. Has Northern continued to use these ratios to determine the C&I COGs?

A. No. Northern proposed to discontinue the use of these ratios in its 2006 Summer COG proceeding, Docket DG 06-038, and the Commission approved its proposal in Order No. 24,615 dated April 28, 2006. Northern's proposal was based on the determination that these ratios in connection with the MBA results of a 1999 test year no longer produced appropriate COG rates.

18

11

19 Q. Please explain why the use of these ratios no longer produces appropriate COG rates.

Since the time of the 1999 test year in Docket DG 00-046, natural gas prices have risen 20 Α. dramatically. These rising gas prices have caused relatively high unit system gas costs 21 over the recent years. Applying the ratios approved in Docket DG 00-046 to these high 22 unit gas costs results in a significant difference between the C&I High Winter and Low 23 24 Winter customer groups. Further, the high natural gas prices are associated with primarily 25 long-haul supplies that meet Northern's base load requirements and the Company's requirements typically dispatched next after satisfying base load. Thus, much of these 26 27 supplies are assigned to high load factor (Low Winter) customer classes. The commodity 28 costs of these supplies have risen at a greater rate than the commodity costs for peaking

supply resources and are certainly much higher than in years past, when these supplies were markedly lower than peaking supplies. In the past, high load factor customers (Low Winter) were assigned a large portion of the low cost long lines supplies and a small portion of the relatively high cost peaking supplies, resulting in a favorable ratio between Low Winter and High Winter customers. However, the higher cost of long lines supplies in today's market causes the unit commodity cost to serve low and high load factor customers to be similar, or even higher for the high load factor customers.

9 The Settlement in Docket DG 00-046 recognized the possibility that these ratios would change over time. One critical item identified as expected to impact the ratios was "the 10 ratio of delivered costs of winter supplies to pipeline delivered supplies." ¹ This ratio, once 11 much greater than unity, has approached unity. In short, the test year ratios do not and 12 should not be applied to the current and on-going calculated unit commodity cost of the · 13 COG. Because of similar unit commodity costs for the two groups of customers, or higher 14 unit costs for the Low Winter group, and the inappropriate application of the ratios to the 15 unit commodity cost, the difference between the overall gas cost rates between the two 16 17 groups of customers should be less than differences in the past. In fact, the Company has 18 seen this in the MBA-based Cost of Gas calculations in other jurisdictions, primarily in 19 Northern's Maine Division and for Bay State. For instance, the MBA-based unit gas costs for Northern-Maine filed the past winter period of 2006-07 and this 2006 Summer period 20 are as follows: 21

22

1

2

3

4

5

6

7

	Unit Demand Cost	Unit Commod Cost	Total Unit Cost
<u>Summer 2006</u>			
LLF (High Winter) *	\$0.1257 / ccf	\$0.8732 / ccf	\$0.9989 / ccf

¹ Settlement Agreement Among the Parties to Docket DG 00-046, Northern Utilities, Inc., pg 11.

HLF (Low Winter)	\$0.0942	\$0.8600	\$0.9542
Difference	\$0.0315	\$0.0132	\$0.0447
<u>Winter 06-07</u>			
LLF (High Winter) *	\$0.4038 / ccf	\$0.9765 / ccf	\$1.3803 / ccf
HLF (Low Winter)	\$0.3421	\$0.9190	\$1.2611
Difference	\$0.0617	\$0.0575	\$0.1192

* Includes Residential.

In contrast the Total Unit Gas Cost for the New Hampshire Division using the existing DG 00-046 ratios resulted in improperly large differences between the LLF and HLF rates. For the 2006 Summer period the C&I LLF COG would have been approximately \$0.14 per therm higher than the HLF COG. The 2005-06 Winter period C&I LLF COG was approximately \$0.46 per therm higher than the HLF COG. These New Hampshire COG differences highlighted that the ratios based on the MBA method run on 1999 test year data and conditions significantly over-stated the load factor unit cost difference of providing gas supply service.

12 Q. How did the Company modify the use of ratios to derive C&I High Winter and Low13 Winter COG rates?

A. The Company derived unit demand cost ratios from its Capacity Allocators calculation
 filed with the Commission once a year with the Company's Winter COG. The resulting
 ratios were:

 • Summer 2006: C&I High Winter - 1.00318; and C&I Low Winter - 0.98199.

• Winter 2006-07: C&I High Winter - 1.0471; and C&I Low Winter - 0.9911.

.0 Q. Does the application of these ratios to the average cost of gas produce cost-based or

market-based gas cost rates for the C&I rate classes?

Although the application of these ratios to the average cost of gas significantly improve 2 Α. the reflection of costs in the load factor rates as compared to rates using the 1999 test year 3 MBA ratios, they do not reflect the allocation of costs of all of the dispatched volumes of 4 Northern's entire system portfolio to meet the load characteristics of the Low Load Factor 5 and High Load Factor classes, including the associated commodity costs. While the use of 6 these ratios applicable only to the unit demand cost safeguards against a significantly 7 inaccurate load-factor differentiation of costs, it essentially ensures only a partial 8 reflection of load factor distinct costs. 9

- 10
- 11
- 12

- 13

14

MARKET BASED ALLOCATION ("MBA") METHOD

Q. Please explain the purpose of using the Market Based Allocation method to derive
 cost of gas rates.

Northern's prior method of calculating COGs, as well as its current method absent 17 Α. any application of ratios, was based on the seasonal average cost of gas for the 18 19 winter season of November through April and summer season of May through October. This average cost of gas approach does not recognize the difference in 20 costs of providing gas supply service to various load characteristics of customers 21 22 or groups of customers. In particular, the annual cost of resources to satisfy the demand of a high load factor load versus a low load factor load, typically 23 temperature-sensitive load, can be quite different. In addition, as Northern 24 !5 unbundled its gas supply service from its distribution service and supplier service

became more available behind Northern's system, it became more appropriate to 1 charge bundled sales customers for gas supply service in a manner that would be 2 similar to how third party unregulated suppliers would offer supply service to 3 Northern's customers. This unregulated supply service offering essentially reflects 4 market conditions. Northern implemented the MBA to allocate gas costs and 5 calculate gas cost rates to reflect the distinction in providing gas service to high 6 load and low load factors loads, reflecting such market conditions as well as 7 Northern's cost of providing gas supply service to all its sales customers. 8

9

•

Q. Please elaborate on how the MBA achieves this market based costing of gas supply
service.

The MBA method identifies the portion of the system load curve that can be served at 12 Α. high annual load factors. In the extreme case of the hypothetical customer with a 100% 13 load factor, i.e., the daily load requirements are the same for the entire annual period, all 14 of such load can be served with relatively low-cost year-round firm supplies. The source 15 16 of these supplies is typically long-haul, or long line, pipeline natural gas. The MBA identifies the least-cost supplies, considering both capacity and commodity costs 17 18 combined, to serve the high load block of load. The MBA then assigns those costs, on average, to the loads of the individual customer classes, which make up the block. For 19 this hypothetical 100% load factor customer or customer class, it would be exclusively 20 21 assigned the cost of the base load supply used to serve its load.

22

23

The MBA defines base load usage as the level of system load that remains constant

throughout the year. In practice, the level of capacity in the base load block is computed 1 • as the average of the normal year firm sendout over the months of July and August. The 2 base load supply block is intended to serve base load requirements of all customers on the 3 system. The supply costs to serve this block are determined by assigning the lowest cost 4 sources available, including capacity and commodity cost considerations. 5 6 The MBA then addresses the allocation of capacity and commodity costs to the portion of 7 the system load curve that remains after this high load factor block is served. These 8 remaining loads are primarily firm winter loads. 9 10 11 Q. Has Northern, or its parent company, Bay State Gas, used the MBA method of calculating 12 cost of gas rates in the past? Α. Yes, both Bay State Gas in Massachusetts and Northern for its Maine Division have 13 14 calculated its cost of gas rates using the MBA method for many years. However, Bay 15 State Gas changed from the more data-intensive MBA to a Simplified MBA ("SMBA") in its last base rate case, D.T.E. 05-27, while Northern-Maine has proposed to change from 16 the MBA to a SMBA method in its current 2007 Summer Cost of Gas filing, coincident 17 18 with Northern's proposal in this proceeding for its New Hampshire Division. 19 20 О. Why has Bay State Gas and Northern-Maine implemented or proposed to implement the 21 SMBA? 22 A. Bay State Gas has changed, and Northern-Maine has proposed to change, from the MBA

to the SMBA method to significantly reduce the volume of data, general level of detail

. 2

1

and the time-consuming modeling necessary to calculate class-specific cost of gas rates, while at the same time generating very similar rates for the load factor class categories as compared to the class-specific rates for those same respective classes.

4

3

Please explain the level of detail used in the MBA's allocations that Northern-Maine has Q. 5 been using? 6

A. The MBA method employs a low level of detail. Each of Northern's supply resources is 7 individually allocated. Monthly dispatching results and associated costs are allocated 8 9 monthly to each rate class. Allocations are performed using separate dispatches for normal year and design year sales requirements. The normal year sales are used to 10 allocate commodity costs while the design year dispatch forms the basis for capacity cost 11 12 allocations. As a result of this level of detail, the development of MBA allocators represents a sizeable commitment for each cost of gas filing. 13

14

15 О. Is the capacity cost allocation development included in the MBA method consistent with the capacity assignment methodology set forth in Northern's Delivery Service Terms and 16 Conditions? 17

No. Capacity assignment is based on class design day demands, while the MBA allocates 18 Α. demand costs using a Proportional Responsibility weighted design year monthly 19 20 allocation. This aspect of the MBA was another reason or incentive to change to the 21 SMBA.

22

?3 О. Is it appropriate to allocate capacity costs using one method in the semi-annual COG

filings and use a different method when capacity is assigned to migrating sales customers?
 A. No. Ideally the two methods should employ identical methods to insure that the capacity related supply costs for migrating sales customers are the same costs charged to them
 when they were sales customers. If not, marketers will be assessed an inequitable cost for
 assigned capacity and the assignment of the remaining capacity costs to sales customers
 through the COGC would also be inequitable.

7

8

SIMPLIFIED MARKET BASED ALLOCATION ("SMBA")

9

Q. What are the major differences between the current MBA method that was the basis for
the C&I load factor ratios pursuant to DG 00-046 and that has been used for NorthernMaine and the simplified version or SMBA?

A. The SMBA uses a single, normal year dispatch for both commodity and capacity. It allocates average pipeline capacity and commodity costs to the base use portion of the load curve and then allocates all remaining supply costs to the remaining load requirements throughout the year. Note though, that the SMBA and MBA identify the base use portion of the load curve in the same manner, as the average of the normal year firm sendout over the months of July and August.

19

The SMBA then allocates the remaining capacity costs on the basis of temperaturesensitive design day demands. While the MBA method requires the ranking of each individual resource by the respective fully loaded (commodity and demand) costs, the SMBA method creates three categories of resources and associated costs: (1) pipeline –

natural gas; (2) underground storage withdrawal; and (3) peaking delivered supplies, including propane and LNG.

3

2

- 1

Finally, the SMBA assigns costs to the requirements of the load profile of the high load 4 factor and low load factor groupings, rather than by each rate class. Note that to adhere to 5 the current provision of deriving the average cost of gas for the COG applicable to the 6 residential rate classes, the residential classes are assigned the average demand and 7 8 commodity costs, and the difference between these average costs and the costs allocated using the SMBA are reallocated to the HLF and LLF classes based on their percentage of 9 allocated costs to total costs. Working with two load factor categories and the residential 10 class is a simplification, especially in that it limits the number of COG rates, that does not 11 [•] 12 result in any material change in the cost assignment of rate classes since the load profiles of the individual rate classes within the high load factor (low winter) and low load factor 13 (high winter) categories are quite similar. Thus, another reason why Bay State Gas has 14 changed to the SMBA, and Northern-Maine has proposed to change to the SMBA, is that 15 16 the SMBA high load factor based rates are quite similar to the MBA class-specific rates for the G-50, G-51 and G-52 classes and the low load factor based rates are quite similar 17 to the G-40, G-41 and G-42 class rates. 18

19

Q. Please explain any changes in the assignment of costs between the Maine and New
 Hampshire divisions and between the Summer and Winter periods as a result from using
 the SMBA method rather than the straight 2-season method for the New Hampshire
 Division and the MBA method for the Maine Division.

A. First and foremost, the allocation of actual and forecast annual costs between the two 1 divisions does not change from changing to the SMBA method from either the straight 2-2 season or MBA methods. In short, costs are allocated between the two divisions before 3 any cost of gas pricing model is applied to either division. In particular, and as has been 4 the case, actual monthly commodity costs will be allocated between the two divisions 5 based on actual monthly firm sendout factors / percentages, while forecast commodity 6 costs through the SMBA (or MBA) modeling is based on the monthly firm sendout 7 volumes of each division. Similarly, the allocation of actual and forecast demand costs 8 between the two divisions will be the same, as demand costs are allocated using the 9 Modified PR Allocator that was instituted pursuant to the New Hampshire Commission 10 order in Docket DG 05-080, as well as in the Maine Commission order in Docket No. 11 2005-87 and Docket No. 2005-273. 12

13

.

With respect to seasonal allocation of costs, once the costs are allocated to each division, 14 there will be some slight shifting of costs between the seasons. There could be only a 15 slight shifting of commodity costs between the two seasons due to using the SMBA 16 method as compared to the straight 2-season allocation. This slight shifting would only be 17 due to the SMBA method costing monthly pipeline requirements at the average cost of 18 19 pipeline, rather than how the straight 2-season method captures the costs of all monthly dispatched pipeline resources needed to satisfy firm demand, at each resource's monthly 20 21 cost. This could result in capturing more or less commodity costs in a particular six-22 month COG season. With respect to demand costs, the SMBA employs a design day "?3 demand allocation of capacity costs that establishes the level of demand costs related to

Remaining Pipeline (above base load level), at that design day demand level, and assigns 1 to each month based on the monthly PR percentages. With respect to the straight 2-season 2 method, the monthly demand costs associated with all pipeline resources incurred and 3 used in the summer period are charged to the summer period. Under both methodologies 4 demand costs associated with storage and peaking resources are assigned to the winter 5 period only. The difference in the seasonal allocation of pipeline demand costs between 6 the two methodologies should result in some shift of demand costs between the two 7 seasons. Schedule JAF-1 presents the Summer period and Winter period commodity and 8 demand costs allocated to each division and to each season under both the SMBA and the 9 straight 2-season methods. (Note that the MBA method used for the Maine Division, 10 before costs are allocated to the two divisions does not impact divisional allocation of 11 costs.) This schedule shows: (1) No shifting of costs between the New Hampshire and · 12 Maine divisions; (2) Extremely minor shifting of commodity costs from summer to winter 13 14 period (approximately \$17,000 or 0.04% for NH); and (3) Approximately \$580,000, or about 4.5%, of demand costs shifted from summer to winter. 15

16

.....

17 Q. How do the COG rates using the SMBA method compare with the current method of deriving COGs, which uses the straight 2-season method and applies the C&I load factor 18 19 ratios based on the load factor unit capacity costs used to derive the Capacity Allocators?

Northern has derived COGs for the 2006-07 Winter and 2007 Summer periods using both 20 Α. the SMBA and current COG method. Schedule JAF-2 shows that the difference between 21 the C&I Low Winter and High Winter COGs is greater using the SMBA as compared to 22 `?3 the current COG method. This difference reflects that the SMBA method is reflecting the

allocation of the demand and commodity costs associated with the dispatching of the
entire portfolio of resources. These SMBA results show that more of the higher cost
resources are needed to satisfy the High Winter (low load factor) customer demand (and
less to satisfy the Low Winter customer demand) as compared to the current COG method,
based on the classes' monthly demand for the forecast period of May 2007 through April
2008.

7

.

Q. Is the SMBA consistent with the capacity assignment method provided in Northern's
Delivery Service Terms and Conditions?

10 A. Yes. The SMBA method is emulating the same method used for capacity assignment in 11 the gas cost allocations, in particular, using design day demand to allocate remaining 12 capacity costs after assigning pipeline capacity costs. In this manner, migrating customers 13 are assigned the same capacity cost, associated with their design day demand, for which 14 they were paying under the COG Clause rates.

- 15
- 16 Q. Please generally describe the SMBA method.

A. The SMBA method identifies two portions of the utility's load duration curve and separately assigns costs to each portion of the curve. For a simple example, Schedule JAF-3 presents a typical load duration curve to meet the New Hampshire Division requirements to demonstrate the SMBA method. The rectangle forming the lower portion of the curve represents the "base use" portion of the curve, which can be served at extremely high annual firm load factors. All of this load can be served with relatively inexpensive resources, typically long line natural gas supplies. The SMBA method

identifies the capacity and commodity costs for both supply and upstream transportation 1 contracts to deliver these low cost supplies to the high load factor block of load. The 2 SMBA assigns these costs, on average, to the loads of the individual customer classes that 3 make up this block. The upper triangle portion of the load duration curve represents the 4 "remaining load". This remaining load is load served by a combination of supplies 5 including the pipeline supplies not serving the base use portion of the curve, winter service 6 contracts, underground storage supplies, peaking supplies and on-system manufactured 7 gas from the LNG and propane facilities. 8

9

The SMBA method defines base use as the level of system firm customer load that 10 remains constant throughout the year. Interruptible loads and storage refill requirements 11 are not considered as part of the base use load since interruptible loads are not firm loads 12 and storage refill does not represent customer load. Instead, customer loads served by 13 14 storage withdrawals and their associated costs are treated as part of remaining load. In practice the level of capacity or the maximum daily quantity of the base use block is 15 computed as the average daily normal year firm sendout over the months of July and 16 August. The base load supply block is intended to serve these requirements throughout 17 18 the year. So, a hypothetical 100% load factor customer would be exclusively assigned the 19 costs of the base load supply used to serve his load. On the other hand, for a customer 20 who only uses gas in the winter period, none of his load is in the base use block of the 21 utility's load duration curve and he would not receive, or be assigned, any of the base load 22 use block of supply.

23

The remainder of the SMBA method addresses the allocation of capacity and commodity costs to the portion of the system load curve that remains after this high load factor block is served. These loads primarily consist of firm loads in the winter period. In the summer period, the remaining loads consist of interruptible load, storage refill, and a minor amount of firm load served on cooler days in the summer period.

6

Q. How is capacity costs allocated for the load remaining after serving the high load factor
block?

9 Α. The SMBA method employs a normal weather year's monthly dispatch of supplies net of the high load factor block already served. The remaining loads to be served are identified 10 as a single block, which is simpler than the MBA method of stratifying the remaining load 11 for each dispatched supply source. Pipeline charges required for summer period storage 12 injections are included in the remaining load category and are assigned primarily to the 13 winter period. The SMBA method allocates the remaining capacity to classes on the basis 14 of their respective design day demand less that portion of their load served by base use 15 16 supplies. Capacity costs are assigned to months using a Proportional Responsibility (PR) allocator based on the system's remaining load in a normal year. The PR allocator is 17 18 applied to the total remaining capacity cost to assign proportionately higher capacity costs 19 to higher load periods. Monthly costs are then allocated to customer classes in proportion 20 to their monthly usage, after deducting load served by the high load factor block.

21

22 Q. How is the commodity costs allocated to the remaining portion of the system load curve?

A. Monthly commodity costs are computed residually after serving the base load use block.

Test year monthly commodity costs by source are reduced for base load commodity. The remaining monthly load was assigned to customer classes in proportion to their remaining usage.

4

2

3

· 1

5 Q. Mr. Ferro, have you provided schedules that show the detailed data that result in the 6 seasonal allocation of costs and the allocation of those costs between the load factor class 7 categories?

A. Yes. I have included with my testimony many of the same schedules that have been included as exhibits to the testimony of Ronald D. Gibbons in support of Northern's 2007 Summer COG rates. These schedules show the firm sales, associated sendout and resulting cost allocations by the SMBA-designated categories, by month and by rate class rolled up to the high and low load factor groupings, as well as the assignment of the system average demand and commodity costs to the Residential class. These various schedules are presented as follows:

- Schedule JAF-4: Summary of costs by season, by Demand and Commodity, by
 Base Load and above Base Load requirements ("Gas Cost Exhibits" section of
 COG filing);
- <u>Schedule JAF-5</u>: Monthly, seasonal and annual sales and capacity-assigned
 transportation load by rate class ("Sales Exhibits" section of COG filing);
- Schedule JAF-6: Design Day Demands by rate class Temperature sensitive
 Design Day percentages that generate "Remaining Capacity" costs provided in
 "Gas Cost Exhibits" section of COG filing;
- .3
- <u>Schedule JAF-7</u>: Sendout by rate class, by month, by Base and Remaining Load --

• 1	Volumes generating commodity costs in the "Gas Cost Exhibits" section of COG
2	filing;
3	• <u>Schedule JAF-8</u> : Commodity volumes, costs and unit costs by month and by
4	Pipeline, Storage and Peaking and by Base and Remaining load requirements (in
5	"Gas Cost Exhibits" section of COG filing);
6	• <u>Schedule JAF-9</u> : Demand costs by month, by Base Pipeline, Remaining Pipeline
7	and Storage and Peaking demand costs (in "Gas Cost Exhibits" section of COG
8	filing);
9	• <u>Schedule JAF-10</u> : Base Commodity and Capacity/Demand costs by rate class, by
10	month (in "Gas Cost Exhibits" section of COG filing);
11	• <u>Schedule JAF-11</u> : Remaining Commodity and Capacity/Demand costs by rate
.2	class, by month (in "Gas Cost Exhibits" section of COG filing);
13	• <u>Schedule JAF-12</u> : All Costs by Commodity and Capacity, by month, by Base and
14	Remaining requirements (in "Gas Cost Exhibits" section of COG filing)
15	

16 Q. What do these schedules generally illustrate?

A. These schedules illustrate how Northern's capacity and commodity resources and associated costs, through the SMBA method, are assigned by month, by rate class to meet the firm sales and capacity-assigned transportation load. Mr. Gibbons takes these cost allocation results to derive cost of gas rates by the two SMBA rate categories of C&I High Load Factor (low winter) and C&I Low Load Factor (high winter), along with deriving the Residential COG based on the system average cost of gas.

!3

Q. Mr. Ferro, please summarize the merits of implementing the SMBA method to derive
 COG rates.

The SMBA is a method of calculating market based gas cost rates on an ongoing basis Α. 3 without the data intensive requirements or model run time needs that the original MBA 4 required, and without losing any material pricing differential or accuracy in price signals 5 that the original MBA afforded. This method allows for much better commodity price 6 signals for Northern's C&I customers as compared to the current straight 2-season COG 7 method, with the C&I ratio application. The SMBA also allows for consistency between 8 assignment of capacity to transportation customers and capacity costs charged to sales 9 10 customers through the COG. In addition, the SMBA method will be consistent with the cost of gas pricing methodology used by Bay State Gas and Northern-Maine, which 11 allows for consistent market-based pricing for all of the Company's customers, and 12 13 secondarily allows for increased administrative efficiencies for the Company in implementing its cost of gas rates in its three state jurisdictions of New Hampshire, Maine 14 and Massachusetts. 15

16

17 Q. Does this conclude your testimony?

18 A. Yes it does.

Northern Utilities, Inc - New Hampshire Division Comparison of Annual Costs --- Straight 2-Season / MBA vs. SMBA May 2007 through April 2008 Forecast

Allocated Commodity Costs-New Hampshire

	Straight 2-Season / MBA			SMBA				Difference			
	Winter	Summer	Total	%	Winter	Summer	Total	%	Winter	Summer	Total
Maine	\$27,574,465	\$6,522,256	\$34,096,721	46.11%	\$27,574,509	\$6,534,370	\$34,108,879	46.11%	\$44	\$12,114	\$12,158
NH	\$30,730,101	\$9,121,954	\$39,852,055	53.89%	\$30,730,052	\$9,139,080	\$39,869,132	53.89%	(\$49)	\$17,126	\$17,077
Total	\$58,304,566	\$15,644,210	\$73,948,776		\$58,304,561	\$15, <u>673,450</u>	\$73,978,011		(\$5)	\$29,240	\$29,235

.

Allocated Demand Costs

1

		on	SMBA				Difference				
NEW HAMPSHIRE	Winter	Summer	Total		Winter	Summer	Total		Winter	Summer	Total
Direct Costs	\$9,764,044	\$3,615,023	\$13,379,067		\$12,288,837	\$1,090,218	\$13,379,055		\$2,524,793	(\$2,524,805)	(\$12)
Summer Deferred	\$1,942,423	(\$1,942,423)	\$0		\$0	\$0	\$0		(\$1,942,423)	\$1,942,423	\$0
Capacity Release		\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0
SUBTOTAL	\$11,706,467	\$1,672,600	\$13,379,067	50.46%	\$12,288,837	\$1,090,218	\$1 <u>3,379,055</u>	50.46%	\$582,370	(\$582,382)	(\$12)
MAINE		(MBA)									
Direct Costs	\$11,768,822	\$1,370,192	\$13,139,014		\$11,972,298	\$1,162,710	\$13,135,008		\$203,476	(\$207,482)	(\$4,006)
Non-core Margins	(\$3,996)	\$0	(\$3,996)		\$0	\$0	\$0		\$3,996	\$0	\$3,996
SUBTOTAL	\$11,764,826	\$1,370,192	\$13,135,018	49.54%	\$11,972,298	\$1,162,710	\$13,135,008	49.54%	\$207,472	(\$207,482)	(\$10)
Total Northern Allocated Demand Costs			\$26,514,085				\$26,514,063				
									·		
NH (only) Non-allocate	ed:										
Miscellaneous O/H	\$95,460	\$28,837	\$124,297		\$95,460	\$28,837	\$124,297		\$0	\$0	\$0
Production and Storage	\$686,673	\$0	\$686,673		\$686,673	\$0	\$686,673		\$0	\$0	\$0
Total Non-allocated	\$782,133	\$28,837	\$810,970		\$782,133	\$28,837	\$810,970		\$0	\$0	\$ 0
										(4700.000)	
Total N.H.	\$12,488,600	\$1,701,437	\$14,190,037		\$13,070,970	\$1,119,055	\$14,190,025		\$582,370	(\$582,382)	(\$12)

Schedule JAF-1

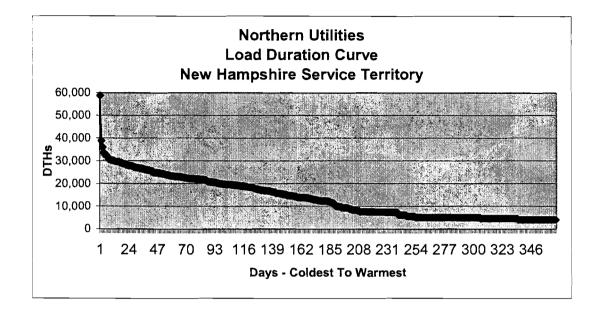
÷

Northern Utilities, Inc. - New Hampshire Division Comparison of Straight 2-season with C&I Ratios and SMBA Load Factor Unit Costs of Gas

.

2007 Summer and 2006-07 Winter Forecast COG Filings

	2007 Summer COG Rates / therm				2006-07 Winter COG Rates / therm			
	Straight 2-	SMBA -			Straight 2-			
	Season w-	Load			Season w-	SMBA -		
	C&I Ratios	Factor	Difference		C&I Ratios	Load Factor	Difference	
Demand				1				
Residential	\$0.1516	\$0.0988	-\$0.0528		\$0.2811	\$0.3073	\$0.0262	
C&I Low Winter	\$0.1500	\$0.0587	-\$0.0913		\$0.2792	\$0.1877	-\$0.0915	
C&I High Winter	\$0.1532	\$0.1427	-\$0.0105		\$0.2950	\$0.3656	\$0.0706	
Commodity								
Residential	\$0.8385	\$0.8401	\$0.0016		\$0.9514	\$0.8632	-\$0.0882	
C&I Low Winter	\$0.8385	\$0.8303	-\$0.0082		\$0.9514	\$0.9033	-\$0.0481	
C&I High Winter	\$0.8385	\$0.8429	\$0.0044		\$0.9514	\$0.8496	-\$0.1018	
Total Unit Cost of Gas								
Residential	\$0.9901	\$0.9389	-\$0.0512		\$1.2325	\$1.1705	-\$0.0620	
C&I Low Winter	\$0.9885	\$0.8890	-\$0.0995		\$1.2306	\$1.0910	-\$0.1396	
C&I High Winter	\$0.9917	\$0.9856	-\$0.0061		\$1.2464	\$1.2152	-\$0.0312	
C&I Differential	\$0.0032	\$0.0966	\$0.0934		\$0.0158	\$0.1242	\$0.1084	



Northern Utilities - NEW HAMPSHIRE DIVISION

Summary of Costs to Winter and Summer Seasons

∟ine No	Description (1)	Nov - Apr (2)	May - Oct (3)	Total (4) = (2)+ (3)
1	DEMAND: Pipeline/Product Charges	\$4,248,510	\$584,464	\$4,832,973
2	Capacity Credits	\$0	\$0	\$ 0
3	Total Pipeline/Product	\$4,248,510	\$584,464	\$4,832,973
4	Base Load Costs	\$338,516	\$338,516	\$677,033
5	Remaining Pipeline	\$3,909,994	\$245,947	\$4,155,941
6	Storage Demand	\$3,833,306	\$505,754	\$4,339,061
7	Peaking Demand	\$4,207,021	\$0	\$4,207,021
8	Off System Credits	\$0	\$0	\$ 0
•.	Total Demand Costs	\$12,288,837	\$1,090,218	\$13,379,055
10	COMMODITY:			
11	Pipeline/Product Commodity Charges	\$13,937,035	\$9,129,849	\$23,066,884
12	Base Load	\$8,111,650	\$7,664,336	\$15,775,986
13	Remaining Pipeline	\$5,825,385	\$1,465,513	\$7,290,898
14	Storage Commodity	\$13,921,699	\$0	\$13,921,699
15	Peaking Commodity	\$2,892,165	\$41,955	\$2,934,119
16	Interruptible Included Above	\$ (20,846)	\$ (32,724)	\$ (53,570)
17	Hedging (Gain)/Loss	\$0	\$126,764	\$126,764
18	Total Commodity (Lines 14 + 18)	\$30,730,052	\$9,265,844	\$39,995,896
.đ 0j				

Northern Utilities - NEW HAMPSHIRE DIVISION Forecasted Sales and Transportation (Volumes in DTH) Winter 2007 - 2008 Period Effective May 2007

Line	1															
<u>No.</u>	<u>Firm Sales</u>	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	Winter	Summer
1	Res Heat	161,765	244,621	283,611	243,924	208,415	131,594	69,679	37,733	37,137	30,809	46,761	100,698	1,596,747	1,273,930	322,817
2	Res General	2,773	3,343	3,612	3,338	3,094	2,565	2,134	1,914	2,145	1,653	1,976	2,348	30,895	18,725	12,170
3	Total Residential	164,538	247,964	287,223	247,262	211,509	134,159	71,813	39,647	39,282	32,462	48,737	103,046	1,627,642	1,292,655	334,987
4	G50 Low Annual-Low Winter	16,565	18,073	18,746	18,061	17,448	16,122	14,481	14,397	14,668	13,974	14,552	14,113	191,200	105,015	86,185
5	G40 Low Annual-High Winter	81,366	127,696	149,498	127,306	107,451	64,495	29,754	11,976	10,507	8,550	17,000	47,016	782,615	657,812	124,803
6	G51 Med Annual-Low Winter	34,834	41,405	44,496	41,349	38,533	32,442	27,343	24,822	25,523	23,427	25,535	29,205	388,914	233,059	155,855
7	G41 Med Annual-High Winter	85,116	131,959	154,004	131,566	111,490	68,058	32,910	14,936	11,074	13,848	20,016	50,364	825,341	682,193	143,148
8	G52 High Annual-Low Winter	31,580	46,717	53,840	46,589	40,102	26,068	14,681	8,873	7,301	8,846	10,515	20,321	315,433	244,896	70,537
9	G42 High Annual-High Winter	22,113	32,072	36,759	31,988	27,720	18,487	10,985	4 <u>,029</u>	28,181	7,691	7,189	14,695	241,909	169,139	72,770
10	Total Comm	271,574	397,922	457,343	396,859	342,744	225,672	130,154	79,033	97,254	76,336	94,807	175,714	2,745,412	2,092,114	653,298
11	Total Sales	436,112	645,886	744,566	644,121	554,253	359,831	201,967	118,680	136,536	108,798	143,544	278,760	4,373,054	3,384,769	988,285
12	Non-Grandfathered T50 Low Annual-Low Winter	1,564	2,322	2,679	2,316	1,991	1,288	717	426	382	391	508	1,000	15,584	12,160	3,424
13	Non-Grandfathered T40 Low Annual-High Winter	4,976	7,634	8,886	7,612	6,473	4,008	2,012	991	951	751	1,280	3,002	48.576	39,589	8,987
14	Non-Grandfathered T51 Med Annual-Low Winter	5,662	6,666	7,138	6,657	6,227	5,297	4,516	4,131	4,451	3,712	4,240	4,492	63,189	37,647	25,542
15	Non-Grandfathered T41 Med Annual-High Winter	23,364	35,168	40,722	35,068	30,010	19,066	10,195	5,665	5,162	4,921	6,946	14,593	230,880	183,398	47,482
16	Non-Grandfathered T52 High Annual-Low Winter	926	1,018	1,164	1,153	1,032	1,051	887	986	1,291	1,176	1,240	1,269	13,193	6,344	6,849
17	Non-Grandfathered T42 High Annual-High Winter	<u> 10,657 </u>	16,051	18,590	16,005	13,694	8,694	4,640	2,571	3,388	1,990	<u>3,155</u>	6,649	106,084	83,691	22,393
18	Total Non-Grandfathered Capacity	<u> </u>	68,859	79,179	68,811	59,427	39,404	22,967	<u>14,770</u>	15,625	12,941	17,369	31,005	477,506	362,829	114,677
19	Total Firm Sales	483,261	714,745	823,745	712,932	613,680	399,235	224,934	133,450	152,161	121,739	160,913	309,765	4,850,560	3,747,598	1,102,962
20	Residential Heat & Non Heat	164,538	247.964	287.223	247.262	211.509	134,159	71,813	39,647	39,282	32,462	48.737	103.046	1,627,642	1,292.655	334.987
21	SALES HLF CLASSES	82,979	106.195	117,082	105,999	96,083	74.632	56,505	48.092	47,492	46.247	50,602	63.639	895,547	582,970	312,577
22	SALES LLF CLASSES	188,595	291.727	340,261	290.860	246.661	151,040	73.649	30,941	49,762	30,089	44,205	112,075	1,849,865	1,509,144	340,721
22	Non-Grandfathered HLF CLASSES	8.152	10.006	10,981	10,126	9,250	7.636	6,120	5,543	6,124	5,279	5.988	6.761	91,966	56,151	35,815
23	Non-Grandfathered LLF CLASSES	38,997	58.853	68,198	58,685	9,230 50,177	31.768	16.847	9,227	9.501	7.662	11.381	24.244	385,540	306.678	78.862
25	Total Firm Sales	483,261	714,745	823,745	712,932	613,680	399.235	224,934	133.450	1 52,161	121.739	160,913	309.765	4,850,560	3.747.598	1,102,962
20		703,201	117,140	020,740	112,932	013,000	333,233	££7,334	155,450	152,101	121,135	100,913	505,705	7,000,000	5,177,590	1,102,302

÷

Northern Utilities - NEW HAMPSHIRE DIVISION SENDOUT FORECAST: Normal Calendar Month Sendout (MMBtu) DESIGN DAY DEMANDS ALL DIVISIONS

1 Sendout for Design Day Calculation

1	Sendout for Design Day Calculation					Excludes Design	n Day Base
2 3 4	Customer Class	Design Day Forecast <u>NH</u>	% of Total <u>Total</u>	Design Day Base <u>NH</u>	% of Total <u>Total</u>	Temperature Sensitive Design Day <u>NH</u>	% of <u>Total</u>
5	5						
6	Res Heat	20,719	36.59%	1,140	24.80%	19,579	37.64%
	Res General	175	0.31%	69	1.50%	106	0.20%
	G50 Low Annual-Low Winter	1,503	2.65%	1,160	25.23%	343	0.66%
9	G40 Low Annual-High Winter	11,296	19.95%	311	6.77%	10,985	21.12%
10	•••••••••	2,639	4.66%	850	18.49%	1,789	3.44%
11		11,231	19.84%	370	8.05%	10,861	20.88%
	G52 High Annual-Low Winter	1,385	2.45%	235	5.11%	1,150	2.21%
13		3,737	6.60%	153	3.33%	3,584	6.89%
14		62	0.11%	9	0.20%	53	0.10%
	Non-Grandfathered T40 Low Annual-High Winter	302	0.53%	20	0.44%	282	0.54%
16	Non-Grandfathered T51 Med Annual-Low Winter	418	0.74%	102	2.22%	316	0.61%
17	Non-Grandfathered T41 Med Annual-High Winter	2,461	4.35%	119	2.59%	2,342	4.50%
18	Non-Grandfathered T52 High Annual-Low Winter	42	0.07%	12	0.26%	30	0.06%
19	Non-Grandfathered T42 High Annual-High Winter	650	1.15%	47	1.02%	603	1.16%
20	Non-Grandfathered Special Contracts	56,620		4,597		52,023	
21							
22	Residential	20,894	36.90%	1,209	26.30%	19,685	37.84%
23	SALES HLF CLASSES	5.527	9.76%	2.245	48.84%	3,282	6.31%
24	SALES LLF CLASSES	26,264	46.39%	834	18.14%	25,430	48.88%
25	Non-Grandfathered HLF CLASSES	522	0.92%	123	2.68%	399	0.77%
26	Non-Grandfathered LLF CLASSES	3,413	6.03%	186	4.05%	3,227	6.20%
27	Grand Total	56.620	100.00%	4,597	100.00%	52,023	100.00%

,

3/14/2007 10:28 AM

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations <u>SENDOUT BY CLASS</u>

Therms

ESTIMATED SENDOUT BY CLASS

2

3 TOTAL Nov-07 Dec-07 Jan-08 Feb-08 Mar-08 Apr-08 May-07 Jun-07 Jul-07 Aug-07 Sep-07 Oct-07 Winter Summer | % in Winter 4 -5 6 Res Heat 1,633,830 2,470,670 2,864,480 2,463,640 2,104,990 1,329,100 703,760 381,110 375,090 311,170 472,290 1.017.050 16,127,180 12,866,710 3,260,470 80% Res General 28,000 33,770 31,250 19.330 21,660 19,960 312.020 189,120 122,900 61% 36,480 33,720 25.900 21.550 16.690 23,710 G50 Low Annual-Low Winter 167,310 176,230 182,540 189 340 162 830 145,410 141.140 146,970 142.550 1.931.140 1.060.670 870.470 55% 182.420 148 250 148,150 10 G40 Low Annual-High Winter 1,289,730 120,960 821 790 1 509 930 1,285,800 1.085.250 651,400 300.510 106.120 86 360 171 700 474 860 7 904 410 6 643 900 1.260.510 84% 11 G51 Med Annual-Low Winter 2,353,910 351.830 418.190 449,410 417,630 389,190 327.660 276,170 250,700 257.790 236.810 257,900 294.970 3.928.050 1.574.140 80% 12 G41 Med Annual-High Winter 859,670 1,332,790 1,555,440 1,328,810 1,126,050 687.380 332,400 150.850 111.850 139,870 202,160 508,670 8,335,940 6,890,140 1,445,800 83% 13 G52 High Annual-Low Winter 318,960 471,840 543,780 470,550 73,740 89,340 205,240 3,185,870 2,473,450 712,420 78% 405,030 263,290 148.280 89.620 106.200 14 G42 High Annual-High Winter 223,340 323,930 371.260 323.080 279,970 186,710 110,940 40.690 284,630 77,680 72.610 148,420 2,443,260 1,708,290 734,970 70% 15 Non-Grandfathered T50 Low Annual-Low Winter 15,790 23,450 23,390 7,240 3,950 10,100 122.810 34,580 78% 27.060 20.110 13.010 4.300 3.850 5.140 157.390 16 Non-Grandfathered T40 Low Annual-High Winter 81% 50.250 77.110 89 740 76 880 20 320 10.010 9.600 7,590 12 930 30,320 399,830 90.770 65 370 40 480 490.600 17 Non-Grandfathered T51 Med Annual-Low Winter 67.320 53,500 42.830 87.240 44.960 37,500 380 230 258 000 60% 57.190 72.090 62.890 45.610 41 730 45.370 838,230 18 Non-Grandfathered T41 Med Annual-High Winter 235,970 355,190 411,300 354,200 303,100 192,560 102,970 57,220 52,140 49,700 70.150 147.380 2,331,880 1.852.320 479.560 79% 19 Non-Grandfathered T52 High Annual-Low Winter 9.350 10.270 11.640 10.430 10.600 8,960 13.040 11,870 12,530 12.820 133.230 64.050 69.180 48% 11.760 9,960 20 Non-Grandfathered T42 High Annual-High Winter 107,640 34,210 31,870 67,160 1,071,450 845,290 226,160 79% 162,120 187.750 181,660 138.320 87,800 46,860 25,960 20,100 21 22 TOTAL 4,880,920 7.218.920 4.032.220 2.271.820 1.347.850 1,536,830 1,229,570 1,625,240 3,128,620 48.990.650 37,850,720 11,139,930 77% 8 319 820 7.200.660 6.198.180 23 1 661 830 1,355,000 400 440 396 750 327,860 492.250 1 040 780 18 439 200 13 055 830 3 383.370 24 Residential 2 504 440 2 900 960 2,497,360 2,138,240 725 310 25 SALES HLF CLASSES 838,100 1.072.570 1,182,530 1.070.600 970,450 753,780 570,700 485,730 479,680 467,090 511,070 642,780 9,045,080 5,888,030 3,157,030 65% SALES LLF CLASSES 312,500 303,910 446,470 1,131,950 18,683,610 15,242,330 3,441,280 82% 26 1,904,800 2,948,450 3.436.630 2,937,890 2,491,270 1,525,490 743,850 502,600 27 Non-Grandfathered HLF CLASSES 82,330 101.040 110.910 93.430 77,110 61.810 61.850 53,320 60.500 88,290 928,850 587.090 361,760 61% 102.270 55.990 3,097,440 28 Non-Grandfathered LLF CLASSES 77,390 114,950 244,860 3,893,930 796.490 393.860 594,420 688,790 592.740 506.790 320.840 170,150 93.190 95,950 80% 29 30 31 BASE SENDOUT BY CLASS - Therms 44,619 32 July Aug Daily Average Dally Base 33 Apr-08 Jul-07 Oct-07 TOTAL WINTER SUMMER 34 Nov-07 Dec-07 Jan-08 Feb-08 Mar-08 May-07 Jun-07 Aug-07 Sep-07 Gas Entitlement 35 36 Res Heat 332.061 343,130 343.130 320.993 343.130 332.061 343,130 332.061 343.130 311.170 332.061 343,130 4.019.188 2.014.505 2.004.683 11.069 111.328 18 556 18 558 18.556 19 175 223 904 112.576 37 Res General 19 175 19 175 17.938 19 175 19 175 18 556 19.175 16.690 619 142,550 38 G50 Low Annual-Low Winter 139.979 144.645 144.645 135,313 144,645 139,979 144.645 139,979 144.645 141,140 139.979 1,702,144 849.206 852,938 4.666 39 G40 Low Annual-High Winter 93,135 96,240 96,240 90,031 96,240 93,135 96,240 93,135 96,240 86,360 93,135 96,240 1,126,373 565,022 561,351 3,105 40 G51 Med Annual-Low Winter 239,226 247,200 247,200 231,252 247,200 239,226 247,200 239.226 247,200 236,610 239.226 247,200 2,907,965 1,451,303 1.456.662 7.974 41 G41 Med Annual-High Winter 121,800 125.860 125.860 117,740 125,860 121,800 125.860 121.800 111.850 125.860 121.800 125.860 1,471,950 738,920 733.030 4.060 42 G52 High Annual-Low Winter 81 540 81 540 81.540 78,910 81 540 78.910 73.740 81.540 78.910 81.540 954.898 478,719 476.179 2.630 78.910 76 279 181,155 77.680 148,420 1,895,050 1.063.555 631,495 43 G42 High Annual-High Winter 175,311 181,155 181.155 169,468 181,155 175,311 110.940 40.690 72.610 5.844 44 Non-Grandfathered T50 Low Annual-Low Winter 3,774 3,900 3,900 3,648 3,900 3,774 3,900 3,774 3,850 3,900 3,774 3,900 45,995 22.897 23.098 126 45 Non-Grandfathered T40 Low Annual-High Winter 8,318 8,595 8 595 8,040 8,595 8.318 8,595 8.318 8,595 7,590 8,318 8,595 100,471 50,461 50,010 277 46 Non-Grandfathered T51 Med Annual-Low Winter 39,900 41,230 41,230 38,570 41,230 39,900 41,230 39,900 41,230 37,500 39,900 41,230 483.050 242,060 240.990 1,330 50,920 50,920 49 277 50 920 49.277 50 920 49,700 49,277 50,920 599,965 298,950 301,015 1.643 47 Non-Grandfathered T41 Med Annual-High Winter 49,277 50.920 47.635 48 Non-Grandfathered T52 High Annual-Low Winter 9.350 10.270 11 760 11.640 10 430 10.600 8.960 9 960 12.455 11.870 12,053 12,455 131.803 64.050 67.753 402 153,804 49 Non-Grandfathered T42 High Annual-High Winter 26,279 27,155 27,155 25,403 27,155 26,279 27.155 25,960 27.155 20,100 26.279 27,155 313.230 159,428 876 50 51 TOTAL 1,335,877 1,381,015 1,382,505 1,293,950 1,381,175 1,337,127 1,309,490 1,201,547 1,361,340 1,207,710 1,235,879 1,348,370 15,775,986 8,111,650 7.664,336 44,619 52 350 618 362 305 362 305 338 930 362.305 350.618 362.305 350.618 362,305 327,860 350,618 362,305 4,243,091 2,127,081 2,116,010 53 Residential 465,585 459,290 458.115 471,290 5.565.007 2.779.228 2,785,779 442,844 458.115 473.385 458,115 54 SALES HLF CLASSES 458.115 473.385 473 385 473.385 55 SALES LLF CLASSES 390,247 403,255 403,255 377,239 403,255 390,247 333.040 255,625 389 245 289 900 287 545 370.520 4 293 373 2.387 497 1 925 876 56.890 54,274 54,090 53,634 57,535 53.270 55,727 57,585 660.848 329.007 331,842 1,858 56 Non-Grandfathered HLF CLASSES 53.024 55,400 53,858 55,560 86,670 77,390 83,874 86,670 1.013.666 508,837 2.796 57 Non-Grandfathered LLF CLASSES 83,874 86.670 86,670 81,078 86,670 83.874 86.670 83.555 504.829

3/14/2007 10:28 AM

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations <u>SENDOUT BY CLASS</u>

÷

1 REMAINING SENDOUT BY CLASS - Therms

3															
4	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
5		_													
6 Res Heat	1,301,769	2,127,540	2,521,350	2,142,647	1,761,860	997,039	360,630	49,049	31,960	-	140,229	673,920	12,107,992	10,852,205	1,255,787
7 Res General	9,444	14,595	17,305	15,782	12,075	7,344	2,375	774	2,485	-	1,404	4,535	88,116	76,544	11,572
9 G50 Low Annual-Low Winter	27,331	37,895	44.695	47,107	31,585	22,851	1,605	5,431	3,505		6,991	-	228,996	211,464	17,532
10 G40 Low Annual-High Winter	728,655	1,193,490	1,413,690	1,195,769	989,010	558,265	204,270	27,825	9,880	-	78,565	378,620	6,778,037	6,078,878	699,159
11 G51 Med Annual-Low Winter	112,604	170,990	202,210	186,378	141,990	88,434	28,970	11,474	10,590	-	18,674	47,770	1,020,085	902,607	117,478
12 G41 Med Annual-High Winter	737,870	1,206,930	1,429,580	1,211,070	1,000,190	565,580	206,540	29,050	-	14,010	80,360	382,810	6,863,990	6,151,220	712,770
13 G52 High Annual-Low Winter	240,050	390,300	462,240	394,271	323,490	184,380	66,740	10,710	-	7,800	27,290	123,700	2,230,972	1,994,731	236.241
14 G42 High Annual-High Winter	48,029	142,775	190,105	153,612	98,815	11,399	-	-	103,475	-	-	-	748,210	644,735	103,475
15 Non-Grandfathered T50 Low Annual-Low Winter	12,016	19,550	23,160	19,742	16,210	9,236	3,340	526	-	50	1,366	6,200	111,395	99,913	11,482
16 Non-Grandfathered T40 Low Annual-High Winter	41,932	68,515	81,145	68,840	56,775	32,162	11,725	1,692	1,005	-	4,612	21,725	390,129	349,369	40,760
17 Non-Grandfathered T51 Med Annual-Low Winter	17,290	26,090	30,860	28,670	21,660	13,600	4,380	1,830	3,730	-	2,930	4,140	155,180	138,170	17.010
18 Non-Grandfathered T41 Med Annual-High Winter	186,693	304,270	360,380	306,565	252,180	143,283	52,050	7,943	1,220	-	20,873	96,460	1,731,915	1,553,370	178,545
19 Non-Grandfathered T52 High Annual-Low Winter	-	-	-	-	-	-	-	-	585	-	477	365	1,427	-	1,427
20 Non-Grandfathered T42 High Annual-High Winter	81,361	134.965	160,595	136.257	111,165	61,521	19,705	-	7,055	-	5,591	40,005	758,220	685,864	72,356
21															
22 TOTAL	3,545,043	5,837,905	8,937,315	5,906,710	4,817,005	2,695,093	962,330	146,303	175,490	21,860	389.361	1,780,250	33,214,664	29,739,070	3,475,594
23	-,,	_,	-,		,										
24 Residential	1.311.212	2,142,135	2,538,655	2,158,430	1,773,935	1,004,382	363,005	49,822	34,445	-	141,632	678.455	12,198,109	10.928.749	1,267,360
25 SALES HLF CLASSES	379,985	599,185	709,145	627,758	497,065	295,665	97,315	27.615	14.095	7,800	52,955	171,470	3,480,053	3,108,802	371,251
26 SALES LLF CLASSES	1,514,553	2,543,195	3,033,375	2,560,451	2,088,015	1,135,243	410.810	56,875	113,355	14,010	158,925	761,430	14,390,237	12,874,833	1,515,404
27 Non-Grandfathered HLF CLASSES	29,306	45,640	54.020	48,412	37.870	22,836	7,720	2,356	4,315	50	4,773	10,705	268,002	238,083	29,918
28 Non-Grandfathered LLF CLASSES	309,988	507,750	602,120	511,662	420,120	236,966	83,480	9,635	9,280	-	31,076	158,190	2,880,264	2,588,603	291,661
29	555,500	567,750	002,120	511,002	420,120	200,000	00,400	5,000	5,200		01,070		2,000,204	2,200,000	201,001
30															
30															

,

Page 2 of 7 Schedule JAF-7

.

3/14/2007 10:29 AM

i

Northern Utilities - NEW HAMPSHIRE DIVISION SImplified Market Based Alloctor (SMBA) Calculations <u>COMMODITY COSTS</u>

-

		Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	 Jun-07		Aug-07	Sep-07	Oct-07	TÖTAL	WINTER	SUMMER
			VSV-V/			1101-00	<u>, pi-00</u>	mayor	Jun-Vi	501-01		000-01	501-07			COMMEN
	Supply Volumes - therms															
2	Total Pipeline	1,824,084	2,353,862	2 411 507	1 104 000	1 000 404	3 665 445	0 000 404	1 360 004	1 540 700	1 220 704	1 634 496	3 145 504	15 400 340	14 100 070	14 040 070
5	Total Storage	2,810,275		2,411,597 4,931,827	2,184,633 4,293,016	1,866,484 3,560,516	3,555,415 351	2,288,194 0	1,360,984 0	1,543,782 0	1,236,704 0	1,634,126 0	3,148,504 0	25,408,349 19,757,767	14,196,076 19,757,767	11,212,273 0
4	Total Peaking	2,810,275		1,013,083	4,293,018 <u>755,2</u> 62	3,360,318 799,470	508,220	7,948	7,780	8,957	8 <u>,180</u>	7,734	8,015	4,144,437	4,095,823	48,614
5	Subtotal	4,914,198		8,356,507	7,232,911	6,226,470	4,063,986	2,296,142	1,368,744	1,552,738	1,244,884	1,641,860	3,156,519	49,310.552	38,049,666	11,260,886
-	Less Interruptible	10,233		0,000,001	7,232,311	0,220,410	12.009	11,452	11,584	7,095	6,480	6,330	11,549	81,493	27,005	54,489
7	Less Company Use	23,040		36,650	32,230	28,280	19,740	12,870	9,310	8,820	8,840	10,290	16,350	238,320	171,840	66,480
8	Total Firm	4,880,925		8,319,857	7,200,681	6,198,190	4.032,238	2,271,820	1,347,850	1,536,824	1,229,564	1,625,240	3,128,620	48,990,739	37.850.821	11,139,918
	Usage (Firm Sales)	4,832,610		8,237,450	7,129,320	6,138,800	3,992,350	2,249,340	1,334,500	1,521,610	1,217,390	1,609,130	3,097,650	48,505,600	37,475,980	11,029,620
	Difference	48,315		82,407	71,361	61,390	39,888	22,480	13,350	15,214	12,174	16,110	30,970	485,139	374,841	110,298
	Percent	19			1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
12	Should be 1% or whatever Gr	esham built i	n for Loss & Un													
13																
14 15	Variable Costs															
	Total Pipeline	\$ 1,707,776	\$ 2,345,486	\$ 2,482,523	\$ 2,249,549 \$	1,872,689	\$ 3,279,013	1.813.832	1,065,377	\$ 1,225,268	\$ 998,433	1,353,459 1	2,873,481	\$ 23,066,884	\$ 13.937.035	\$ 9,129,849
	- · · · · ·	\$ 1,973,272				2,507,141								\$ 13,921,699		
	Total Peaking	\$ 191,260		-	\$ 521,581 \$				6,714		-					\$ 41,955
18		\$ 3,872,308				4,924,005					· · · · · · · · · · · · · · · · · · ·			\$ 39,922,702		
19	Total Interruptible Incl Above				\$ - \$	-										\$ 32,724
	Hedging (Gain)/Loss	\$0		\$0	\$0	\$0	\$0			<u> </u>						S -
20	,		· · · -	\$ 8,752,294	· -	-		1 910 350 9	1072097	\$ 1,232,998	\$ 999,958	1 354 008 4	2 660 500	\$ 39,869,132	-	*
21	iolar (milliout interi)	a 3,003,093	a 5,761,142	9 0,752,294	\$ 5,795,510 4	4,824,000	a 3,014,200 1	1,610,330	1,072,007	J 1,232,990	ø ø 9 9,900 i	1,004,050	2,009,090	a 39,009,132	\$ 30,730,03Z	a a'isa'ngo
22																
	Supply Cost/Therm	includes all va	riable costs, both s	upplier and transp	ortation)											
24																
25	Total Pipeline	\$0.936	\$0.998	\$1.029	\$1.030	\$1.003	\$0.922	\$0.793	\$0.783	\$0.794	\$0.807	\$0.828	\$0.849	\$0.908		
26	Total Storage	\$0.702	\$0.704	\$0.707	\$0.704	\$0.704	\$0.827	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.705		
27	Total Peaking	\$0.683	\$0.686	\$0.771	\$0.691	\$0.681	\$0.682	\$0.883	\$0.863	\$0.863	\$0.863	\$0.863	\$0.863	\$0.708		
28	Subtotal	\$0.788	\$0.797	\$0.808	\$0.801	\$0.791	\$0.892	\$0.793	\$0.783	\$0.794	\$0.808	\$0.828	\$0.849	\$0.810		
29	Interruptible	\$0.900	\$0.000	\$0.000	\$0.000	\$0.000	\$0.969	\$0.903	\$0.000	\$0.000	\$0.854	\$0.953	\$0.938	\$0.657		
30	Total	\$0.791	\$0.801	\$0.812	\$0.805	\$0.794	\$0.898	\$0.797	\$0.795	\$0.802	\$0.813	\$0.833	\$0.853	\$0.814		
31																
32																
33	Commodity Costs															
34																
35	Pipeline Average Cost	\$ 0.936	\$ 0.996	\$ 1.029	\$ 1.030 \$	1.003	\$ 0.922	0.793	0.783	\$ 0.794	\$ 0.807	6 0.828 5	0.849	\$ 0.908	\$ 0.982	\$ 0.814
36	Base Commodity, therms	1,335,877	1,381,015	1,382,505	1,293,950	1,381,175	1,337,127	1.309,490	1,201,547	1,361,340	1,207.710	1,235,879	1,348,370	15,775,986	8,111,650	7,664,336
37																
38	Base Commodity Cost	\$ 1,250,699	\$ 1,376,101	\$ 1,423,165	\$ 1,332,399 \$	1,385,787	\$ 1,233,177	1,038,022	940,584	\$ 1,080,468	\$ 975,026	\$ 1,023,612 \$	5 1,144,938	\$ 14,203,956	\$ 8,001,307	\$ 6,202,649
39																
	Remaining Commodity	\$ 2.612.398	\$ 4,405,042	\$ 5,329,129	\$ 4,462,911 \$	3,538,238	\$ 2,381,028	772,328	131,503	\$ 152,530	\$ 24,932	\$ 330,486 \$	1,524,652	\$ 25,665,177	\$ 22,728,745	\$ 2,936,431
41														_		
42	Total Commodity	\$ 3,863,095	\$ 5,781,142	\$ 6,752,294	\$ 5,795,310 \$	4,924,005	\$ 3,614,208	1,810,350	5 1,072,087	\$ 1,232,998	\$ 999,958	\$ 1,354,098 \$	2,669,590	\$ 39,869,132	\$ 30,730,052	\$ 9,139,080

.

Page 1 of 1

3/14/2007 10:29 AM

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations <u>DEMAND COSTS</u>

4

1 DEVELOPMENT OF BASE AND REMAINING DEMAND COSTS:

2		Tot	al		
3		MDQ	Costs	U	nit Cost
4					
5	Pipeline & Product Demand	31,851	\$4,832,973	\$	151.74
6	Less: Base Use	4,462	\$677,033		
7	Remaining Pipeline Use	27,389	\$4,155,941		
8				•	
9					

10 BASE DEMAND COSTS ALLOCATED BY MONTH:

11		Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	Winter	Summer
12																
	BASE DEMAND COSTS	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$677,033	\$338,516	\$338,516
14 15																
	DETAIL OF TOTAL REMAINING		те,													
	Pipeline - Base			#FC 440	#EC 440	#EC 440	#ER 440	PCC 410	SEC 410	CC 410	CEC 440	FEC 410	¢56 410	\$677,033	\$338.516	\$338,516
		\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419			
	Pipeline - Remaining	\$329,937	\$724,299	\$1,362,314	\$744,909	\$520,435	\$228,101	\$66,759	\$7,869	\$9,617	\$1,091	\$23,853	\$136,758	\$4,155,941	\$3,909,994	\$245,947
	Storage & Peaking	\$678,466	\$1,489,415	\$2,801,398	\$1,531,795	\$1,070,199	\$469,055	\$137,280	\$16,181	\$19,776	\$2,244	\$49,050	\$281,223	\$8,546,082	\$8,040,327	\$505,754
20													A 17 1 100			
	TOTAL	\$1,064,822	\$2,270,133	\$4,220,131	\$2,333,123	\$1,647,054	\$753,575	\$260,459	\$80,469	\$85,813	\$59,755	\$129,323	\$474,400	\$13,379,055	\$12,288,837	\$1,090,218
22		•-														
	Less: Capacity Release	\$0														
24																
25		\$13,379,055														
26																
	Demand Cost Deducts															
	Interuptible Margins	\$0														
	Off System Sales Margins	\$0														
30	Other	\$0														
31		\$0														
32																
33	Grand Total - Capacity	\$13,379,055														

.

÷

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations Base Costs

÷

1 BASE DEMAND COSTS BY CLASS

2

-																					
3	 30)	31	31		29		31	 30	31	30	31		31	30	31	366		182		184
4	Nov-07		Dec-07	Jan-08		Feb-08		Mar-08	Apr-08	May-07	Jun-07	Jul-07	4	Aug-07	Sep-07	Oct-07	TOTAL	٧	INTER	S	UMMER
5					_				<u> </u>					- ·		 					
6 Res Heat	\$ 14,024	\$	14,018	\$ 14,003	\$	13,996	\$	14,016	\$ 14,011	\$ 14,784	\$ 15,592	\$ 14,221	\$	14,537	\$ 15,159	\$ 14,357	\$ 172,719	\$	84,069	\$	88,650
7 Res General	\$ 784	\$	783	\$ 783	\$	782	\$	783	\$ 783	\$ 826	\$ 871	\$ 795	\$	780	\$ 847	\$ 802	\$ 9,619	\$	4,698	\$	4,921
9 G50 Low Annual-Low Winter	\$ 5,912	\$	5,909	\$ 5,903	\$	5,900	\$	5,909	\$ 5.906	\$ 6,232	\$ 6,573	\$ 5,995	\$	6,593	\$ 6,390	\$ 5,965	\$ 73,187	\$	35,439	\$	37,748
10 G40 Low Annual-High Winter	\$ 3,933	\$	3,932	\$ 3,928	\$	3,926	\$	3,931	\$ 3,930	\$ 4,147	\$ 4,373	\$ 3,989	\$	4,034	\$ 4,252	\$ 4,027	\$ 48,401	\$	23,579	\$	24,821
11 G51 Med Annual-Low Winter	\$ 10,103	\$	10,099	\$ 10,088	\$	10,083	\$	10,098	\$ 10,094	\$ 10,651	\$ 11,233	\$ 10,245	\$	11,053	\$ 10,921	\$ 10,344	\$ 125,012	\$	60,566	\$	64,446
12 G41 Med Annual-High Winter	\$ 5,144	\$	5,142	\$ 5,136	\$	5,134	\$	5,141	\$ 5,139	\$ 5,423	\$ 5,719	\$ 4,636	\$	5,880	\$ 5,560	\$ 5,268	\$ 63,320	\$	30,836	\$	32,484
13 G52 High Annual-Low Winter	\$ 3,333	\$	3,331	\$ 3,328	\$	3,326	\$	3,331	\$ 3,330	\$ 3,513	\$ 3,705	\$ 3,056	\$	3,809	\$ 3,602	\$ 3,412	\$ 41,076	\$	19,978	\$	21,098
14 G42 High Annual-High Winter	\$ 7,404	\$	7,401	\$ 7,393	\$	7,389	\$	7,400	\$ 7,397	\$ 4,780	\$ 1,911	\$ 7,508	\$	3,629	\$ 3,315	\$ 6,210	\$ 71,736	\$	44,384	\$	27,352
15 Non-Grandfathered T50 Low Annual-Low Winter	\$ 159	\$	159	\$ 159	\$	159	\$	159	\$ 159	\$ 168	\$ 177	\$ 160	\$	182	\$ 172	\$ 163	\$ 1,978	\$	956	\$	1,022
16 Non-Grandfathered T40 Low Annual-High Winter	\$ 351	\$	351	\$ 351	\$	351	\$	351	\$ 351	\$ 370	\$ 391	\$ 356	\$	355	\$ 380	\$ 360	\$ 4,317	\$	2,106	\$	2,211
17 Non-Grandfathered T51 Med Annual-Low Winter	\$ 1,685	\$	1,684	\$ 1,683	\$	1,682	\$	1,684	\$ 1,684	\$ 1,776	\$ 1,874	\$ 1,709	\$	1,752	\$ 1,821	\$ 1,725	\$ 20,759	\$	10,102	\$	10,657
18 Non-Grandfathered T41 Med Annual-High Winter	\$ 2,081	\$	2,080	\$ 2,078	\$	2,077	\$	2,080	\$ 2,079	\$ 2,194	\$ 2,314	\$ 2,110	\$	2,322	\$ 2,250	\$ 2,131	\$ 25,796	\$	12,476	\$	13,320
19 Non-Grandfathered T52 High Annual-Low Winter	\$ 395	\$	420	\$ 480	\$	508	\$	426	\$ 447	\$ 386	\$ 468	\$ 516	\$	555	\$ 550	\$ 521	\$ 5,671	\$	2,675	\$	2,996
20 Non-Grandfathered T42 High Annual-High Winter	\$ 1,110	\$	1,109	\$ 1,108	\$	1,108	\$	1,109	\$ 1,109	\$ 1,170	\$ 1,219	\$ 1,125	\$	939	\$ 1,200	\$ 1,136	\$ 13,442	\$	6,653	\$	6,789
21																					
22 TOTAL	\$ 56,419	\$	56,419	\$ 56,419	\$	56,419	\$	56,419	\$ 56,419	\$ 56,419	\$ 56,419	\$ 56,419	\$	56,419	\$ 56,419	\$ 56,419	\$ 677,033	\$	338,516	\$	338,516
23																					
24 Residential	\$ 14,808	\$	14,801	\$ 14,785	\$	14,778	\$	14,800	\$ 14,794	\$ 15,610	\$ 16,463	\$ 15,015	\$	15,316	\$ 16,006	\$ 15,160	\$ 182,338	\$	88,767	\$	93,571
25 SALES HLF CLASSES	\$ 19,348	\$	19,339	\$ 19,319	\$	19,309	\$	19,337	\$ 19,330	\$ 20,396	\$ 21,511	\$ 19,296	\$	21,456	\$ 20,913	\$ 19,720	\$ 239,275	\$	115,982	\$	123,292
26 SALES LLF CLASSES	\$ 16,482	\$	16,474	\$ 16,457	\$	16,449	\$	16,472	\$ 16,466	\$ 14,349	\$ 12,003	\$ 16,132	\$	13,543	\$ 13,127	\$ 15,504	\$ 183,457	\$	98,800	\$	84,657
27 Non-Grandfathered HLF CLASSES	\$ 2,239	\$	2,263	\$ 2,322	\$	2,348	\$	2,270	\$ 2,290	\$ 2,330	\$ 2,518	\$ 2,384	\$	2,489	\$ 2,544	\$ 2,410	\$ 28,408	\$	13,732	\$	14,675
28 Non-Grandfathered LLF CLASSES	\$ 3,542	\$	3,541	\$ 3,537	\$	3,535	\$	3,540	\$ 3,539	\$ 3,734	\$ 3,923	\$ 3,592	\$	3,615	\$ 3,829	\$ 3,627	\$ 43,555	\$	21,235	\$	22,320
29																					
30																					
34																					

.

31 32 BASE COMMODITY COSTS BY CLASS

SE BACE COMMODITI COUTO BI CEACO																						_		
33		Nov-07		Dec-07		Jan-08		Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07		Sep-07		Oct-07		TOTAL	Ŵ	INTER	S	UMMER
34 Res Heat	\$	310,888	\$	341,909	\$	353,222	\$	330,531	\$ 344,271	\$ 306,246	\$ 271,996	\$ 259,941	\$ 272,335	\$ 251,218	\$	275,028	\$	291,361	\$	3,608,947	\$1,	987,067	\$ 1	1,621,880
35 Res General	\$	17,373	\$	19,107	\$	19,739	\$	18,471	\$ 19,239	\$ 17,114	\$ 15,200	\$ 14,526	\$ 15,219	\$ 13,474	\$	15,369	\$	16,282	\$	201,113	\$	111,042	\$	90,071
36 G50 Low Annual-Low Winter	\$	131,054	\$	144,130	\$	148,899	\$	139,334	\$ 145,126	\$ 129,097	\$ 114,659	\$ 109,577	\$ 114,802	\$ 113,947	\$	115,937	\$	121,043	\$	1,527,605	\$	837,640	\$	689,965
37 G40 Low Annual-High Winter	\$	87,197	\$	95,898	\$	99,070	\$	92,706	\$ 96,560	\$ 85,895	\$ 76,289	\$ 72,907	\$ 76,384	\$ 69,721	\$	77,139	\$	81,720	\$	1,011,486	\$	557,326	\$	454,160
38 G51 Med Annual-Low Winter	\$	223,972	\$	246,320	\$	254,470	\$	238,123	\$ 248,022	\$ 220,628	\$ 195,953	\$ 187,268	\$ 196,198	\$ 191,023	\$	198,138	\$	209,904	\$	2,610,021	\$1,	431,536	\$ 1	1,178,485
39 G41 Med Annual-High Winter	\$	114,034	\$	125,412	\$	129,562	\$	121,239	\$ 126,278	\$ 112,331	\$ 99,768	\$ 95,346	\$ 88,773	\$ 101,611	\$	100,880	\$	106,871	\$	1,322,106	\$	728,856	\$	593,250
40 G52 High Annual-Low Winter	\$	73,878	\$	81,250	\$	83,938	\$	78,546	\$ 81,811	\$ 72,775	\$ 64,636	\$ 61,771	\$ 58,526	\$ 65,830	\$	65,357	\$	69,238	\$	857,556	\$	472,198	\$	385,358
41 G42 High Annual-High Winter	\$	164,133	\$	180,510	\$	186,483	\$	174,503	\$ 181,757	\$ 161,682	\$ 87,941	\$ 31,853	\$ 143,779	\$ 62,714	\$	60,139	\$	126,027	\$	1,561,522	\$ 1,	,049,069	\$	512,453
42 Non-Grandfathered T50 Low Annual-Low Winter	\$	3,534	\$	3,886	\$	4,015	\$	3,757	\$ 3,913	\$ 3,481	\$ 3,091	\$ 2,954	\$ 3,056	\$ 3,149	\$	3,126	\$	3,312	\$	41,273	\$	22,585	\$	18,688
43 Non-Grandfathered T40 Low Annual-High Winter	\$	7,787	\$	8,564	\$	8,848	\$	8,279	\$ 8,624	\$ 7,671	\$ 6,813	\$ 6,511	\$ 6,822	\$ 6,128	\$	6,889	\$	7,298	\$	90,235	\$	49,774	\$	40,461
44 Non-Grandfathered T51 Med Annual-Low Winter	\$	37,356	\$	41,083	\$	42,443	\$	39,716	\$ 41,367	\$ 36,798	\$ 32,683	\$ 31,234	\$ 32,723	\$ 30,275	\$	33,047	\$	35,010	\$	433,735	\$	238,763	\$	194,972
45 Non-Grandfathered T41 Med Annual-High Winter	\$	46,135	\$	50,739	\$	52,418	\$	49,050	\$ 51,089	\$ 45,447	\$ 40,364	\$ 38,575	40,414	\$ 40,125	\$	40,814	\$	43,238	\$	538,407	\$	294,878	\$	243,529
46 Non-Grandfathered T52 High Annual-Low Winter	\$	8,754	\$	10,233	\$	12,106	\$	11,986	\$ 10,465	\$ 9,776	\$ 7,103	\$ 7,797	\$ 9,885	\$ 9,583	\$	9,983	\$	10,576	\$	118,246	\$	63,320	\$	54,927
47 Non-Grandfathered T42 High Annual-High Winter	\$	24,603	\$	27,058	\$	27,954	\$	26,158	\$ 27,245	\$ 24,236	\$ 21,526	\$ 20,322	\$ 21,552	\$ 16,227	\$	21,766	\$	23,058	\$	281,705	\$	157,255	\$	124,451
48																								
49 TOTAL	\$1	1,250,699	\$1	1,376,101	-\$1	,423,165	\$1	,332,399	\$ 1,385,767	\$ 1,233,177	\$ 1,038,022	\$ 940,584	\$ 1,080,468	\$ 975,026	\$ 1	,023,612	\$1	1,144,938	\$1	4,203,956	\$8,	001,307	\$ 6	6,202,649
50																								
51 Residential	\$	328,262	\$	361,016	\$	372,960	\$	349,002	\$ 363,509	\$ 323,360	\$ 287,196	\$ 274,467	\$ 287,554	\$ 264,693	\$	290,398	\$	307,643	\$	3,810,060	\$2,	098,109	\$ 1	1,711,951
52 SALES HLF CLASSES	\$	428,904	\$	471,700	\$	487,307	\$	456,003	\$ 474,959	\$ 422,500	\$ 375,248	\$ 358,617	\$ 369,525	\$ 370,801	\$	379,432	\$	400,185	\$	4,995,181	\$2,	741,374	\$ 2	2,253,808
53 SALES LLF CLASSES	\$	365,364	\$	401,820	\$	415,115	\$	388,448	\$ 404,596	\$ 359,908	\$ 263,998	\$ 200,106	308,936	\$ 234,046	\$	238,158	\$	314,619	\$	3,895,114		335,251	\$ 1	,559,863
54 Non-Grandfathered HLF CLASSES	\$	49,643	\$	55,203	\$	58,563	\$	55,459	\$ 55,745	\$ 50,055	\$ 42,877	\$ 41,985	\$ 45,664	\$ 43,007	\$	46,156	\$	48,897	\$	593,254		324,668	\$	268.586
55 Non-Grandfathered LLF CLASSES	\$	78,526	\$	86,362	\$	89,219	\$	83,488	\$ 86,958	\$ 77,354	\$ 68,703	\$ 65,408	\$ 68,788	\$ 62,480	\$	69,468	\$	73,594	\$	910,347	\$	501,906	\$	408,441

.

3/14/2007 10:30 AM

Northern Utilities - NEW HAMPSHIRE DIVISION Simpilfied Market Based Alloctor (SMBA) Calculations Base Costs

.

1 BASE TOTAL COSTS BY CLASS

2			
3			

J															
4	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
5											_				
6 Res Heat	\$ 324,913	\$ 355,927	\$ 367,225	\$ 344,527	\$ 358,287	\$ 320,258	\$ 286,780	\$ 275,533	\$ 286,556	\$ 265,755	\$ 290,187	\$ 305,719	\$ 3,781,666	\$ 2,071,136	\$ 1,710,530
7 Res General	\$ 18,157	\$ 19,890	\$ 20,521	\$ 19,253	\$ 20,022	\$ 17,897	\$ 16,026	\$ 15,398	\$ 16,013	\$ 14,254	\$ 16,216	\$ 17,084	\$ 210,732	\$ 115,740	\$ 94,992
9 G50 Low Annual-Low Winter	\$ 136,965	\$ 150,040	\$ 154,802	\$ 145,234	\$ 151,034	\$ 135,003	\$ 120,891	\$ 116,150	\$ 120,796	\$ 120,541	\$ 122,327	\$ 127,008	\$ 1,600,791	\$ 873,078	\$ 727,713
10 G40 Low Annual-High Winter	\$ 91,130	\$ 99,829	\$ 102,998	\$ 96,632	\$ 100,491	\$ 89,825	\$ 80,435	\$ 77,281	\$ 80,372	\$ 73,756	\$ 81,391	\$ 85,747	\$ 1,059,887	\$ 580,905	\$ 478,982
11 G51 Med Annual-Low Winter	\$ 234,076	\$ 256,419	\$ 264,558	\$ 248,206	\$ 258,120	\$ 230,722	\$ 206,604	\$ 198,501	\$ 206,443	\$ 202,077	\$ 209,059	\$ 220,248	\$ 2,735,033	\$ 1,492,101	\$ 1,242,93
12 G41 Med Annual-High WInter	\$ 119,178	\$ 130,554	\$ 134,698	\$ 126,372	\$ 131,420	\$ 117,470	\$ 105,191	\$ 101,066	\$ 93,409	\$ 107,491	\$ 106,441	\$ 112,137	\$ 1,385,426	\$ 759,692	\$ 625,734
13 G52 High Annual-Low Winter	\$ 77,211	\$ 84,581	\$ 87,266	\$ 81,872	\$ 85,142	\$ 76,105	\$ 68,149	\$ 65,477	\$ 61,582	\$ 69,639	\$ 68,959	\$ 72,650	\$ 898,632	\$ 492,176	\$ 406,456
14 G42 High Annual-High Winter	\$ 171,537	\$ 187,911	\$ 193,876	\$ 181,892	\$ 189,157	\$ 169,080	\$ 92,721	\$ 33,763	\$ 151,287	\$ 66,343	\$ 63,454	\$ 132,238	\$ 1,633,258	\$ 1,093,453	\$ 539,80
15 Non-Grandfathered T50 Low Annual-Low Winter	\$ 3,693	\$ 4,045	\$ 4,174	\$ 3,916	\$ 4,072	\$ 3,640	\$ 3,260	\$ 3,132	\$ 3,215	\$ 3,331	\$ 3,298	\$ 3,475	\$ 43,251	\$ 23,540	\$ 19,710
16 Non-Grandfathered T40 Low Annual-High Winter	\$ 8,139	\$ 8,916	\$ 9,199	\$ 8,630	\$ 8,975	\$ 8,022	\$7,183	\$ 6,902	\$ 7,178	\$ 6,482	\$ 7,269	\$ 7,658	\$ 94,552	\$ 51,879	\$ 42,672
17 Non-Grandfathered T51 Med Annual-Low Winter	\$ 39,041	\$ 42,768	\$ 44,125	\$ 41,398	\$ 43,051	\$ 38,482	\$ 34,459	\$ 33,108	\$ 34,432	\$ 32,027	\$ 34,869	\$ 36,735	\$ 454,494	\$ 248,865	\$ 205,629
18 Non-Grandfathered T41 Med Annual-High Winter	\$ 48,217	\$ 52,819	\$ 54,496	\$ 51,127	\$ 53,169	\$ 47,526	\$ 42,558	\$ 40,889	\$ 42,524	\$ 42,446	\$ 43,063	\$ 45,368	\$ 564,202	\$ 307,354	\$ 256,849
19 Non-Grandfathered T52 High Annual-Low Winter	\$ 9,149	\$ 10,653	\$ 12,586	\$ 12,493	\$ 10,891	\$ 10,223	\$7,489	\$ 8,264	\$ 10,401	\$ 10,138	\$ 10,533	\$ 11,097	\$ 123,917	\$ 65,995	\$ 57,922
20 Non-Grandfathered T42 High Annual-High Winter	\$ 25,713	\$ 28,168	\$ 29,062	\$ 27,266	\$ 28,355	\$ 25,345	\$ 22,696	\$ 21,541	\$ 22,678	\$ 17,166	\$ 22,965	\$ 24,194	\$ 295,148	\$ 163,908	\$ 131,240
21															
22 TOTAL	\$ 1,307,118	\$ 1,432,520	\$ 1,479,584	\$ 1,388,818	\$ 1,442,186	\$ 1,289,597	\$ 1,094,441	\$ 997,003	\$ 1,136,887	\$ 1,031,445	\$ 1,080,032	\$ 1,201,357	\$ 14,880,988	\$8,339,823	\$ 6,541,165
23															
24 Residential	\$ 343,069	\$ 375,817	\$ 387,746	\$ 363,780	\$ 378,309	\$ 338,154	\$ 302,806	\$ 290,931	\$ 302,569	\$ 280,009	\$ 306,404	\$ 322,803	\$ 3,992,398	\$2,186,876	\$ 1,805,522
25 SALES HLF CLASSES	\$ 448,252	\$ 491,040	\$ 506,626	\$ 475,312	\$ 494,296	\$ 441,830	\$ 395,644	\$ 380,128	\$ 388,821	\$ 392,257	\$ 400,345	\$ 419,905	\$ 5,234,456	\$ 2,857,356	\$ 2,377,100
26 SALES LLF CLASSES	\$ 381,845	\$ 418,294	\$ 431,571	\$ 404,897	\$ 421.068	\$ 376,375	\$ 278,347	\$ 212,109	\$ 325,068	\$ 247,589	\$ 251,285	\$ 330,122	\$ 4,078,571	\$2,434,051	\$ 1,644,521
27 Non-Grandfathered HLF CLASSES	\$ 51,883	\$ 57,466	\$ 60,885	\$ 57,807	\$ 58,014	\$ 52,345	\$ 45,207	\$ 44,504	\$ 48,049	\$ 45,495	\$ 48,700	\$ 51,307	\$ 621,662	\$ 338,400	\$ 283,262
28 Non-Grandfathered LLF CLASSES	\$ 82,069	\$ 89,902	\$ 92,756	\$ 87,023	\$ 90,498	\$ 80,893	\$ 72,437	\$ 69,331	\$ 72,380	\$ 66,095	\$ 73,297	\$ 77,220	\$ 953,902	\$ 523,141	\$ 430,761

÷

1	BASE COMMODITY COSTS INCLUDING INT	TER	RUPTIBLE	E BY	CLASS																						
2																											
3																											
4			Nov-07		Dec-07	1	Jan-08		Feb-08		Mar-08	1	Apr-08	May-07	Jun-07	Jul-07	Aug-07		Sep-07	0	Oct-07		TOTAL	٧	VINTER	S	UMMER
5		-																									
6	Res Heat	\$	310.888	\$	341,909	\$	353,222	\$	330.531	\$	344,271	\$	306,246	\$ 274,706	\$ 259,942	\$ 272,335	\$ 252,644	\$	276,650	\$	294,111	\$	3,617,456	\$1	,987,067	\$	1,630,389
7	Res General	\$	17.373	\$	19,107	\$	19,739	\$	18,471	\$	19,239	\$	17,114	\$ 15,351	\$ 14,526	\$ 15,219	\$ 13,551	\$	15,460	\$	16,436	\$	201,585	\$	111,042	\$	90,543
9	G50 Low Annual-Low Winter	\$	131,054	\$	144,130	\$	148,899	\$	139,334	\$	145,126	\$	129,097	\$ 115,801	\$ 109,578	\$ 114,802	\$ 114,594	\$	116,621	\$	122,186	\$	1,531,220	\$	837,640	\$	693,581
10	G40 Low Annual-High Winter	\$	87,197	\$	95,898	\$	99,070	\$	92,706	\$	96,560	\$	85,895	\$ 77,049	\$ 72,908	\$ 76,384	\$ 70,117	\$	77,594	\$	82,491	\$	1,013,869	\$	557,326	\$	456,543
11	G51 Med Annual-Low Winter	\$	223,972	\$	246,320	\$	254,470	\$	238,123	\$	248,022	\$	220,628	\$ 197,906	\$ 187,269	\$ 196,198	\$ 192,108	\$	199,306	\$	211,886	\$	2,616,208	\$1	,431,536	\$ ´	1,184,672
12	G41 Med Annual-High Winter	\$	114,034	\$	125,412	\$	129,562	\$	121,239	\$	126,278	\$	112,331	\$ 100,762	\$ 95,347	\$ 88,773	\$ 102,188	\$	101,475	\$	107,880	\$	1,325,281	\$	728,856	\$	596,425
13	G52 High Annual-Low Winter	\$	73,878	\$	81,250	\$	83,938	\$	78,546	\$	81,811	\$	72,775	\$ 65,280	\$ 61,772	\$ 58,526	\$ 66,204	\$	65,742	\$	69,891	\$	859,613	\$	472,198	\$	387,415
- 14	G42 High Annual-High Winter	\$	164,133	\$	180,510	\$	186,483	\$	174,503	\$	181,757	\$	161,682	\$ 88,817	\$ 31,853	\$ 143,779	\$ 63,070	\$	60,494	\$	127,217	\$	1,564,298	\$1	,049,069	\$	515,229
15	Non-Grandfathered T50 Low Annual-Low Winter	\$	3,534	\$	3,886	\$	4,015	\$	3,757	\$	3,913	\$	3,481	\$ 3,122	\$ 2,954	\$ 3,056	\$ 3,166	\$	3,144	\$	3,343	\$	41,371	\$	22,585	\$	18,786
16	Non-Grandfathered T40 Low Annual-High Winter	\$	7,787	\$	8,564	\$	8,848	\$	8,279	\$	8,624	\$	7,671	\$ 6,881	\$ 6,511	\$ 6,822	\$ 6,162	\$	6,930	\$	7,367	\$	90,447	\$	49,774	\$	40,673
17	Non-Grandfathered T51 Med Annual-Low Winter	\$	37,356	\$	41,083	\$	42,443	\$	39,716	\$	41,367	\$	36,798	\$ 33,008	\$ 31,234	\$ 32,723	\$ 30,447	\$	33,242	\$	35,340	\$	434,758	•	238,763	\$	195,995
18	Non-Grandfathered T41 Med Annual-High Winter	\$	46,135	\$	50,739	\$	52,418	\$	49,050	\$	51,089		45,447	\$ 40,766	\$ 38,575	\$ 40,414	\$ 40,352	\$	41,054	\$	43,646	\$	539,686	\$	294,878	\$	244,808
19	Non-Grandfalhered T52 High Annual-Low Winter	\$	8,754	\$	10,233	\$	12,106	\$	11,986	\$	10,465		9,776	\$ 7,173	\$ 7,797	\$ 9,885	\$ 9,637	\$	10,042	\$	10,676	\$	118,530	\$	63,320	\$	55,210
	Non-Grandfathered T42 High Annual-High Winter	\$	24,603	\$	27,058	\$	27,954	\$	26,158	\$	27,245	\$	24,236	\$ 21,740	\$ 20,322	\$ 21,552	\$ 16,320	\$	21,894	\$	23,276	\$	282,358	\$	157,255	\$	125,103
21																						• •		• •			
22		\$ 1	1,250,699	\$	1,376,101	\$	1,423,165	\$ 1	,332,399	\$	1,385,767	\$	1,233,177	\$ 1,048,363	\$ 940,588	\$ 1,080,468	\$ 980,561	\$ 1	1,029,648	\$ 1,	155,746	\$ 1.	4,236,680	\$8	,001,307	\$ (5,235,373
23																								• •		•	
	SALES HLF CLASSES	\$	446,277	\$	490,807	\$	507,046	\$	474,474	\$	494,197	\$	439,614	\$ 394,338	\$ 373,145	\$ 384,744	\$ 386,456	\$	397,129		420,399	5			,852,416		
	SALES LI.F CLASSES	\$	676,252	\$	743,729	\$	768,336	\$	718,979	5	748,866	\$	666,155	\$ 541,334	\$ 460,049	\$ 581,271	\$ 488,019	\$	516,213	\$	611,700	\$,322,317	\$ 3	3,198.587
	Non-Grandfathered HLF CLASSES	\$	49,643	\$	55,203	\$	58,563	\$	55,459	\$	55,745	\$	50,055	\$ 43,304	\$ 41,986	\$ 45,664	\$ 43,251	\$	46,428	\$	49,359	\$	594,659	•	324,668	5	269,991
	Non-Grandfathered LLF CLASSES	\$	78,526	\$	86,362	\$	89,219	\$	83,488	\$	86,958	\$	77,354	\$ 69,387	\$ 65,408	\$ 68,788	\$ 62,834	\$	69,878	\$	74,289	\$	912,490	\$	501,906	\$	410,584
28																											

- 29 30 **4**9

,

3/14/2007 10:30 AM

ţ

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations Base Costs

÷

31 BASE INTERRUPTIBLE COMMODITY COSTS BY CLASS

32	No	v-07	D	ec-07	Jan	08	Feb-08	Mar-08	Apr-	-08	Ň	lay-07	Jun-0	7	Jul-07	T	Aug-07	Sep	-07	Oct-07		TOTAL	W	INTER	SU	JMMER
33 Res Heat	\$	-	\$	-	\$		\$-	\$ -	\$;	-	\$	2,710	\$	1	\$-	\$	1,426	\$	1,622	\$ 2,75	0\$	8,509	\$	-	\$	8,509
34 Res General	\$	-	\$	-	\$	-	\$-	\$ -	\$;	-	\$	151	\$	0	\$ -	\$	76	\$	91	\$ 15	1 \$	472	\$	-	\$	472
36 G50 Low Annual-Low Winter	\$	-	\$	-	\$	-	\$-	\$ -	\$;	-	\$	1,142	\$	0	\$-	\$	647	\$	684	\$ 1,14	3 \$	3,616	\$	-	\$	3,616
37 G40 Low Annual-High Winter	\$	-	\$	-	\$	-	\$-	\$ -	\$;	-	\$	760	\$	0	\$-	\$	396	\$	455	\$ 77	1 \$	2,382	\$	-	\$	2,382
38 G51 Med Annual-Low Winter	\$	-	\$	-	\$	-	\$-	\$ -	\$;	-	\$	1,952	\$	1	\$-	\$	1,084	\$	1,168	\$ 1,98	1 \$	6,187	\$	-	\$	6,187
39 G41 Med Annual-High Winter	\$	-	\$	-	\$	-	\$-	\$ -	\$;	-	\$	994	\$	0	\$-	\$	577	\$	595	\$ 1,00	9 \$	3,175	\$	-	\$	3,175
40 G52 High Annual-Low Winter	\$	-	\$	-	\$	-	\$-	\$ -	\$;	-	\$	644	\$	0	\$-	\$	374	\$	385	\$ 65	4 \$	2,057	\$	-	\$	2,057
41 G42 High Annual-High Winter	\$	-	\$	-	\$	-	\$-	\$ -	\$;	-	\$	876	\$	0	\$ -	\$	356	\$	355	\$ 1,19	0\$	2,777	\$	-	\$	2,777
42 Non-Grandfathered T50 Low Annual-Low Winter	\$	-	\$	-	\$	-	\$-	\$ -	\$;	-	\$	31	\$	0	\$-	\$	18	\$	18	\$ 3	1 \$	98	\$	-	\$	98
43 Non-Grandfathered T40 Low Annual-High Winter	\$	-	\$	-	\$		\$-	\$ -	\$;	-	\$	68	\$	0	\$ -	\$	35	\$	41	\$ 6	9\$	212	\$	-	\$	212
44 Non-Grandfathered T51 Med Annual-Low Winter	\$	-	\$	-	\$		\$ -	\$ -	\$;	-	\$	326	\$	0	\$-	\$	172	\$	195	\$ 33	0\$	1,023	\$	-	\$	1,023
45 Non-Grandfathered T41 Med Annual-High Winter	\$	-	\$	-	\$	-	\$ -	\$ -	\$;	-	\$	402	\$	0	\$-	\$	228	\$	241	\$ 40	8 \$	1,279	\$	-	\$	1,279
46 Non-Grandfathered T52 High Annual-Low Winter	\$	-	\$	-	\$	-	\$-	\$ -	\$;	-	\$	71	\$	0	\$-	\$	54	\$	59	\$ 10	0\$	284	\$	-	\$	284
47 Non-Grandfathered T42 High Annual-High Winter	\$	-	\$	-	\$	-	\$ -	\$ -	\$ i	-	\$	214	\$	0	\$-	\$	92	\$	128	\$ 21	8\$	653	\$	-	\$	653
48																										
49 TOTAL											\$	10,341	\$	4	\$-	\$	5,535	\$	6,035	\$ 10,80	8\$	32,724	\$	-	\$	32,724
50																										
51 SALES HLF CLASSES	\$	-	\$	-	\$	-	\$-	\$ -	\$;	-	\$	3,890	\$	2	\$ -	\$	2,182		-,	\$ 3,93		12,332		-	\$	12,332
52 SALES LLF CLASSES	\$	-	\$	-	\$	-	\$-	\$ ~	\$;	-	\$	5,340	\$	2	\$-	\$	2,755	\$	3,026	\$ 5,72		16,843	\$	-	\$	16,843
53 Non-Grandfathered HLF CLASSES	\$	-	\$	-	\$	-	ş -	\$ -	\$;	-	\$	427	\$	0	\$-	\$	244	\$	272	\$ 46	2\$	1,405	\$	-	\$	1,405
54 Non-Grandfathered LLF CLASSES	\$	-	\$	-	\$	-	\$-	\$ -	\$;	•	\$	684	\$	0	\$-	\$	355	\$	410	\$ 69	5\$	2,144	\$	-	\$	2,144

.

3/14/2007 10:35 AM

Northern Utilities - NEW HAMPSHIRE DIVISION SImplified Market Based Alloctor (SMBA) Calculations <u>REMAINING COSTS</u>

1

1 Annual Allocation (by class) of Remaining Demand by Component

1	Annual Allocation (by class) of Remaining Demand by Co	m	ponent											
				Allocated	Allocated									
			Allocated	Storage &	Capacity	Allocated		Mocated Off				llocated Net		
			Pipeline	Peaking	Release	Interruptible	S	ystem Sales				Remaining		
2			Demand	Demand	Demand	Margins		Credits	All	located A&G		Demand		
3														
4	Res Heat	\$	1,564,100	\$ 3,216,342	\$ -	\$ -	\$	-	\$	-	\$	4,780,441		
5	Res General	\$	8,468	\$ 17,413	\$ -	\$ -	\$	-	\$	-	\$	25,881		
6	G50 Low Annual-Low Winter	\$	27,401	\$ 56,346	\$ -	\$ -	\$	-	\$	-	\$	83,747		
7	G40 Low Annual-High Winter	\$	877,554	\$ 1,604,562	\$ -	\$ -	\$	-	\$	-	\$	2,682,116		
8	G51 Med Annual-Low Winter	\$	142,917	\$ 293,688	\$ -	\$ -	\$	-	\$	-	\$	436,805		
9	G41 Med Annual-High Winter	\$	867.648	\$ 1,784,192	\$ -	\$ -	\$	-	\$	-	\$	2,651,840		
10	G52 High Annual-Low Winter	\$	91,870	\$ 188,916	\$ -	\$ -	\$	-	\$	-	\$	280,786		
11	G42 High Annual-High Winter	\$	286,314	\$ 588,762	\$ -	\$ -	\$	-	\$	-	\$	875,075		
12	Non-Grandfathered T50 Low Annual-Low Winter	\$	4,234	\$ 8,707	\$ -	\$ -	\$	-	\$	-	\$	12,941		
13	Non-Grandfathered T40 Low Annual-High Winter	\$	22,528	\$ 46,326	\$ -	\$ -	\$	-	\$	-	\$	68,854		
14	Non-Grandfathered T51 Med Annual-Low Winter	\$	25,244	\$ 51,911	\$ -	\$ -	\$	-	\$	-	\$	77,155		
15	Non-Grandfathered 141 Med Annual-High Winter	\$	187.094	\$ 384,732	\$ -	\$ -	\$	-	\$	-	5	571,827		
16	Non-Grandfathered 152 High Annual-Low Winter	\$	2,397	\$ 4,928	\$ -	\$ -	\$	-	\$	-	\$	7,325		
17	Non-Grandfathered T42 High Annual-High Winter	\$	48,172	\$ 99,058	\$ -	\$ -	\$	-	\$	-	\$	147,229		
18														
19	TOTAL	\$	4,155,941	\$ 8,546,082	\$ -	\$ -	\$	-	\$	-	\$	12,702,023		
20														
21	Residential	\$	1,572,568	\$ 3,233,755	\$ -	\$ -	\$	-	\$	-	\$	4,806,323	\$ -	\$
22	SALES HLF CLASSES	\$	262,188	\$ 539,151	\$ -	\$ -	\$	-	\$	-	\$	801,339	\$ -	\$
23	SALES LLF CLASSES	\$	2,031,516	\$ 4,177,515	\$ -	\$ -	\$	-	\$	-	\$	6,209,031	\$ -	\$
24	Non-Grandfathered HLF CLASSES	\$	31,875	\$ 65,546	\$ -	\$ -	\$	-	\$	-	\$	97,421	\$ -	\$
25	Non-Grandfathered LLF CLASSES	\$	257,794	\$ 530,116	\$ -	\$ -	\$	-	\$	-	\$	787,910	\$ -	\$
26														

27 28 Proportional Responsibility (PR) Allocator

29 30 31 32 Remaining Load Remaining CumPR Load Rank %WINTER PR CumPR No Off Peak Rank %WINTER PR 2.450% 8.925% 33 NOV 3,545,043 51.10% 2.450% 7.939% 3,545,043 5 51.10% 5 34 35 4.905% 17.428% 5,837,905 84.15% 4.905% 18.414% 5,837,905 84.15% DEC 3 3 14.856% 33.766% 100.00% JAN 6,937,315 1 100.00% 14.856% 32.780% 6,937,315 1 36 37 5,906,710 2 85.14% 0.496% 17.924% 5,906,710 2 85.14% 0.496% 18.910% FE8 69.44% 4.584% 13.509% MAR 4,817,005 4 6 69.44% 4.584% 12.523% 4,817,005 4 38 39 APR 2,695,093 38.85% 2.198% 5.489% 94.082% 2,695,093 6 38.85% 6.475% 6.475% MAY 962,330 8 13.87% 1.032% 1.606% 40 JUN 146,303 11 2.11% 0.163% 0.189% 41 2.53% 0.042% 0.231% 175,490 10 JUL 0.026% 42 AUG 21,860 12 0.32% 0.026% 43 0.343% 0.574% **SEP** 389,361 9 5.61% 3.291% 25.66% 1.684% 5.918% 44 OCT 1,780,250 7 45 TOTAL 33,214,664 32.780% 100.000% 29,739,070 100.000% 46

Schedule JAF-11

-

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations REMAINING COSTS

.

1 REMAINING COMMODITY COSTS BY CL	LASS		(From Commod	ity tab)	(Allocate to class	es based on Rer	maining Sendout)							
3	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07 Oct-07	TOTAL	WINTER	SUMMER
4		-												
5 TOT REMAINING COMMODITY	\$2,612,396	\$ 4,405,042	\$ 5,329,129	\$ 4,462,911	\$ 3,538,238	\$ 2,381,028	\$ 772,328 \$	131,503 \$	152,530 \$	24,932 \$	330,486 \$ 1,524,	52 \$ 25,665,177	\$ 22,728,745	\$ 2,936,431
6														
7 Res Heat	\$ 959,293	\$ 1,605,354		\$ 1,618,912		\$ 880,852	\$ 289,427 \$	44,087 \$	24,702 \$		119,025 \$ 577,		\$ 8,295,411	\$ 1,058,441
8 Res General	\$ 6,959	\$ 11,013		\$ 11,924		\$ 6,488	\$ 1,906 \$	695 \$	1,921 \$	314 \$		84 \$ 68,458	\$ 58,547	
10 G50 Low Annual-Low Winter	\$ 20,141	\$ 28,594		\$ 35,592		\$ 20,188	\$ 1,288 \$	4,882 \$	2,709 \$		5,934 \$	- \$ 177,305		
11 G40 Low Annual-High Winter	\$ 536,957	\$ 900,558		\$ 903,483		\$ 493,209	\$ 163,939 \$	25,010 \$	7,636 \$	1,248 \$	66,685 \$ 324,			
12 G51 Med Annual-Low Winter	\$ 82,980	\$ 129,022		\$ 140,821	\$ 104,296	\$ 78,129	\$ 23,250 \$	10,313 \$	8,185 \$	1,338 \$	15,850 \$ 40.9		\$ 690,582	
13 G41 Med Annual-High Winter	\$ 543,748	\$ 910,699		\$ 915.044		\$ 499,672	\$ 165,761 \$	26,111 \$	10,828 \$	1,770 \$	68,209 \$ 327,		\$ 4,702,013	
14 G52 High Annual-Low Winter	\$ 176,897	\$ 294,504		\$ 297,898		\$ 162,894	\$ 53,563 \$	9,627 \$	6,029 \$	965 \$	23,164 \$ 105,		\$ 1,524,891	
15 G42 High Annual-High Winter	\$ 35,393	\$ 107.732		\$ 116,064		\$ 10,070	5 - 5	- \$	79,975 \$	13,072 \$	Ψ	\$ 580,925	\$ 487,878	
16 Non-Grandfathered T50 Low Annual-Low Winter	\$ 8,855	\$ 14,752		\$ 14,916		\$ 8,160		473 \$	39 \$	6 \$		10 \$ 86,047	\$ 76.380	
17 Non-Grandfathered T40 Low Annual-High Winter	\$ 30,901	\$ 51.699		\$ 52,013		\$ 28,414		1,521 \$	777 \$	127 \$	3,915 \$ 18,0			
18 Non-Grandfathered T51 Med Annual-Low Winter	\$ 12,741	\$ 19,686		\$ 21,662				1,645 \$	2,883 \$	471 \$		46 \$ 120.268	\$ 105,721	
19 Non-Grandfathered T41 Med Annual-High Winter	\$ 137,577	\$ 229,590	\$ 276,838	\$ 231,630	\$ 185,234	\$ 126,586	\$ 41,773 \$	7,139 \$	943 \$	154 \$	17,716 \$ 82.0		\$ 1,187,454	
20 Non-Grandfathered T52 High Annual-Low Winter	\$ -	\$ -	ş -	5 -	\$ -	5 -	\$	- \$	452 \$	74 \$		13 \$ 1,243	\$ -	\$ 1,243
21 Non-Grandfathered T42 High Annual-High Winter	\$ 59,956	\$ 101,839	\$ 123,366	\$ 102,951	\$ 81,654	\$ 54,352	\$ 15.814 \$	- >	5,453 \$	891 \$	4,746 \$ 34,2	61 \$ 585,284	\$ 524.119	\$ 61,165
22 23 TOTAL	# 3 643 306	\$ 4,405,042	¢ 5 000 400	\$ 4,462,911	¢ 0,500,000	¢ 0.001.000	\$ 772 328 \$	131.503 \$	152,530 \$	24.932 \$	330.486 \$ 1.524.0	52 \$ 25.665.177	\$ 22,728,745	
23 TOTAL 24	\$ 2,612,396	\$ 4,405,042	\$ 5,329,129	\$ 4,462,911	\$ 3,538,238	\$ 2,381,028	\$ 772,328 \$	131,503 \$	152,530 \$	24,932 \$	330,486 \$ 1,524,6	52 \$ 25.005.177	\$ 22.128.145	\$ 2,930,431
24 25 Residential	\$ 966,252	\$ 1.616.367	\$ 1,950,152	\$ 1.630.837	\$ 1.303.010	\$ 887.340	\$ 291.333 \$	44,782 \$	26.622 \$	4,352 \$	120.216 \$ 581.0	46 \$ 9.422.310	\$ 8.353.957	\$ 1.068.352
26 SALES HLF CLASSES	\$ 900.252 \$ 280.017	\$ 1,010,307 \$ 452,120		\$ 474.311	\$ 1,303,010 \$ 365,110	\$ 261,211	\$ 291,333 \$ \$ 78,101 \$	24,822 \$	16,922 \$	4,352 \$ 2,766 \$	44.948 \$ 146.8	· · · · · · · · · · · · · · · · · · ·	\$ 2.377.523	\$ 314,411
27 SALES ILF CLASSES	\$ 1.116.097	\$ 452,120 \$ 1.918.990		\$ 1.934.591	\$ 1,533,711	\$ 1.002.951	\$	51.121 \$	98.439 \$	16.091 \$	134,894 \$ 652.		\$ 9.836.529	\$ 1,282,353
28 Non-Grandfathered HLF CLASSES	\$ 21.596	\$ 1,910,990 \$ 34,438	* =+- *	\$ 36.578		\$ 20.175		2.117 \$	3,374 \$	551 \$		68 \$ 207.558	\$ 9.830.529 \$ 182.101	\$ 1,262,353 \$ 25,457
29 Non-Grandfathered LLF CLASSES	\$ 228,433	\$ 363,127	• ··· ···	\$ 386,594	\$ 308,591	\$ 209,352	\$	8,660 \$	7,172 \$	1.172 \$	26,377 \$ 135,4		\$ 1.978.636	\$ 245.858
30	\$ 220,433	# JUJ,121	₽ 402,009	φ Jou,394	φ 300,391	φ 209,332	φ 00,550 Φ	0,000 P	7,172 Φ	I, I7∠ ⊅	20,311 φ 133.	···· # 2,224,494	ψ 1,510,030	φ 240,000
31														
32 REMAINING PIPELINE DEMAND														
33														
35	N. 07	D 07	(00	F	M 00	A	Mar. 07	L .= 07	1.1.07	Aug. 07	0-107	TOTAL	MINITED	0000000

4

34		Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	A	pr-08	1	May-07	Ju	n-07	Jul	-07	Aug-07		Sep-07	Oct-07		TOTAL	,	WINTER	SUMM	WER
35	-																							
36 MONTHLY PR DEMAND %		7.939%	17.428%	32.780%	17,924%	12.523%		5.489%		1.606%		0.189%		0.231%	0.026	%	0.574%	3.291	%	100.000%		94.082%	5	918%
37																								
38 Res Heat	\$	124,173	\$ 272,592	\$ 512,710	\$ 280,348	\$ 195,867	\$	85,846	\$	25,125	\$	2,961	\$	3,619 \$	5 41	1 \$	8,977	\$ 51,46	9 \$	1,564,100	\$	1,471,537	\$ 9'	2,563
39 Res General	\$	672	\$ 1,476	\$ 2,776	\$ 1,518	\$ 1,060	\$	465	\$	136	\$	16	\$	20 💲	5	2 \$	49	\$27		8,468	\$	7,967	\$	501
40 G50 Low Annual-Low Winter	\$	2,175	\$ 4,775	\$ 8,982	\$ 4,911	\$ 3,431	\$	1,504	\$	440	\$	52	\$	63 \$;	7 \$	157	\$90		27,401	\$	25,780	\$	1,622
41 G40 Low Annual-High Winter	\$	69,668	\$ 152,941	\$ 287,662	\$ 157,292	\$ 109,893	\$	48,165	\$	14,097	\$	1,662	\$	2,031 \$	5 23		5.037	\$ 28,87		877,554	\$	825,621		1,933
42 G51 Med Annual-Low Winter	\$	11,346	\$ 24,908	\$ 46,848	\$ 25,616	\$ 17,897	\$	7,844	\$	2,296	\$	271	\$	331 \$		8 \$	820	\$ 4,70		142,917	\$	134,459	•	8,458
43 G41 Med Annual-High Winter	\$	68,882	\$ 151,214	\$ 284,414	\$ 155,517	\$ 108,653	\$	47,621	\$	13,938	\$	1,643	\$	2,008	5 22		4,980	\$ 28,55		867,648	\$	816,301		1,347
44 G52 High Annual-Low Winter	\$	7,293	\$ 16.011	\$ 30,115	\$ 16,467	\$ 11,505	\$	5,042	\$	1,476	\$	174	\$	213 💲		4 \$	527	\$ 3,02	3 \$	91.870	\$	86,433	\$ 7	5,437
45 G42 High Annual-High Winter	\$	22,730	\$ 49,899	\$ 93,853	\$ 51.319	\$ 35,854	\$	15,714	\$	4,599	\$	542	\$	663 \$	57	5 \$	1,643			286,314	\$	269,370	\$ 10	6,944
46 Non-Grandfathered T50 Low Annual-Low Winter	\$	336	\$ 738	\$ 1,388	\$ 759	\$ 530	\$	232	\$	68	\$	8	\$	10 💲	5	1 \$	24	\$ 13	9\$	4,234	\$	3,983	\$	251
47 Non-Grandfathered T40 Low Annual-High Winter	\$	1,788	\$ 3,926	\$ 7,385	\$ 4,038	\$ 2,821	\$	1,236	\$	362	\$	43	\$	52 💲	5	6\$	129	\$74	1 \$	22,528	\$	21,195		1,333
48 Non-Grandfathered T51 Med Annual I. ow Winter	\$	2,004	\$ 4,400	\$ 8,275	\$ 4,525	\$ 3,161	\$	1,386	\$	406	\$	48	\$	58 \$	5	7 \$	145	\$83		25,244	\$	23,750		1,494
49 Non-Grandfathered T41 Med Annual-High Winter	\$	14,853	\$ 32,607	\$ 61,329	\$ 33,535	\$ 23,429	\$	10,269	\$	3,005	\$	354	\$	433 💲	5 4	9\$	1,074	\$6,15	· •	187.094	\$	176,022	\$ 1	1,072
50 Non-Grandfathered T52 High Annual-Low Winter	\$	190	\$ 418	\$ 786	\$ 430	\$ 300	\$	132	\$	38	\$	5	\$	6 \$	5	1 \$	14		9 \$	2,397	\$	2,255	\$	142
51 Non-Grandfathered T42 High Annual-High Winter	\$	3,824	\$ 8,395	\$ 15,791	\$ 8,634	\$ 6,032	\$	2,644	\$	774	\$	91	\$	111 \$; 1	3 \$	276	\$ 1,58	5\$	48,172	\$	45,321	\$ 1	2,851
52																								
53 TOTAL	\$	329,937	\$ 724,299	\$ 1,362,314	\$ 744,909	\$ 520.435	\$	228,101	\$	66,759	\$	7,869	\$	9,617 \$; 1,09	1 \$	23,853	\$ 136,75	8\$	4.155.941	\$	3,909,994	\$ 24	5,947
54																								
55 Residential	\$	124,845	\$ 274,068	\$ 515,486	\$ 281,866	\$ 196,928	\$	86,311	\$	25,261	\$	2,977	\$	3,639		3 \$	9,026	\$ 51,74		1,572,568	\$	1,479,504		3.064
56 SALES HLF CLASSES	\$	20,815	\$ 45,694	\$ 85,945	\$ 46,994	\$ 32,833	\$	14,390	\$	4,212	\$	496	\$	607 \$		9\$	1,505	\$8,62		262,188	\$	246,672		5,516
57 SALES LLF CLASSES	\$	161,260	\$ 354,053	\$ 665,929	\$ 364,128	\$ 254,400	\$	111,501	\$	32,633	\$	3,846	\$	4,701 \$	53	3 \$	11,660	\$ 66,85		2,031,516	\$	1,911,292		0,224
58 Non-Grandfathered HLF CLASSES	\$	2,531	\$ 5,555	\$ 10,449	\$ 5,713	\$ 3,992	\$	1,749	\$	512	\$	60	\$	74 \$		8 \$	183	\$ 1,04		31.875	\$	29,988		1,886
59 Non-Grandfathered LLF CLASSES	\$	20,466	\$ 44.928	\$ 84,505	\$ 46,207	\$ 32,283	\$	14,149	\$	4,141	\$	488	\$	597 \$	6	8\$	1,480	\$ 8,48	3\$	257,794	\$	242,538	\$ 1!	5,256

Page 2 of 7

.

3/14/2007 10:35 AM

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations <u>REMAINING COSTS</u>

е т	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
5 MONTHLY PR DEMAND %	7.939%	17.428%	32.780%	17.924%	12.523%	5.489%	1.606%	0.189%	0.231%	0.026%	0.574%	3.291%	100.000%	94.082%	5.918%
0 7 Res Heat	\$ 255,343 \$	560,545	\$ 1.054.314 \$	576.495 \$	402.772 \$	176.530 \$	51.666 \$	9 .090	7.443	845	\$ 18.460 \$	105.839	\$ 3.218.342	\$ 3.025.999	\$ 190.342
8 Res General	\$ 1,382 \$	3,035	\$ 5,708 \$	3,121 \$	2,181 \$	956 \$	280 \$	33 \$	40	5	100 \$	573	\$ 17.413	\$ 16.383	1.031
10 G50 Low Annual-Low Winter	\$ 4,473 \$	9,820	\$ 18,470 \$	10,099 \$	7,056 \$	3,093 \$	905 \$	107 \$	130	15	\$ 323 \$	1.854	\$ 58,346	\$ 53,012	\$ 3,335
11 G40 Low Annual+High Winter	\$ 143,263 \$	314.500	\$ 591,534 \$	323,449 \$	225,980 \$	99,044 \$	28,988 \$	3,417 \$	4,176	474	\$ 10.357 \$	59,382	\$ 1.804.562	\$ 1.697.768	\$ 106.793
12 G51 Med Amrual-Low Winter	\$ 23,332 \$	51,219	\$ 96,336 \$	52,676 \$	36,803 \$	16,130 \$	4,721 \$	556 \$	680	11	\$ 1,687 \$	9,671	\$ 293,888	\$ 276,496	\$ 17.392
13 G41 Med Annual-High Winter	\$ 141.645 \$	310,950	\$ 584,856 \$	319,798 \$	223,429	91,926 \$	28,660 \$	3,378 \$	4,129	469	\$ 10.240 \$	58,712	\$ 1.784.192	\$ 1,678,604	\$ 105,588
	\$ 14,998 \$	32,924	\$ 61,927 \$	33,861 \$	23,657 \$	10,369 \$	3,035 \$	358 \$	437	50	\$ 1.084 \$	6,217	\$ 188,916	\$ 177,736	\$ 11,180
15 G42 High Annuel tigh Winter	\$ 46,741 \$	102,610	\$ 192,996 \$	105,529 \$	73,729 \$	32,314 \$	9,458 \$	1,115 \$	1,362	155	3,379 \$	19,374	\$ 588,762	\$ 553,919	\$ 34,843
16 Non-Grandfathered T50 Low Annual-Low Wittler	\$ 691 \$	1,517	\$ 2,854 \$	1,561 \$	1,090 \$	478 \$	140 \$	16 \$	20	2	\$ 20 \$	1 287	\$ 8.707	\$ 8,191	\$ 515
17 Non-Grandfethered T40 Low Annual-High Winter	\$ 3,678 \$	8.074	\$ 15,185 \$	8,303 \$	5,801 \$	2,543 \$	744 \$	88 \$	107 \$	12	\$ 266 \$	1.524	\$ 46,326	\$ 43,584	\$ 2.742
18 Non-Grandfathered T51 Med Annual-Low Winter	\$ 4,121 \$	9,047	\$ 17,016 \$	9.304 \$	6,501 \$	2,849 \$	834 \$	66	120	14	\$ 298 \$	1,708	\$ 51,911	\$ 48,839	\$ 3.072
19 Non-Grandfathered T41 Med Amual-High Winter	\$ 30,544 \$	67,051	\$ 126,115 \$	68,959 \$	48,179 \$	21,116 \$	6,180 \$	728 \$	\$ 068	101	\$ 2.208 \$	12,860	\$ 384,732	\$ 361,964	\$ 22.768
20 Non-Grandfathered 152 High Amual-Low Winter	\$ 391 \$	826	\$ 1,615 \$	883 \$	617 \$	270 \$	\$ 62	6	11	-	\$ 28 \$	162	\$ 4.928	\$ 4.637	\$ 292
21 Non-Grandfathered 142 High Amuel-High Winter	\$ 7,864 \$	17,264	\$ 32,471 \$	17,755 \$	12,405 \$	5,437 \$	1,591 \$	188 \$	229	56	\$ 569 \$	3,260	\$ 99,058	\$ 93,198	\$ 5,862
23 TOTAL	\$ 678,466 \$	\$ 1,489,415 \$ 2,801,398	\$ 2,801,398 \$	\$ 1,531,795 \$	1,070,199 \$	469,055 \$	137,280 \$	16,181 \$	19.776	3,244	\$ 49,050 \$	\$ 281,223	\$ 8,548,082	\$ 8,040,327	\$ 505,754
25 Residential	\$ 256,725 \$	563,580	\$ 1.060.022 \$	579,616 \$	404,953 \$	177.486 \$	51.946 \$	6.123 \$	7.483 5	849	\$ 18.560 \$	106.412	\$ 3.233.755	\$ 3.042.382	\$ 191.373
26 SALES HLF CLASSES	\$ 42,803 \$	93,963	\$ 176.733 \$	96,637 \$	67.516 \$	29.592 \$	8.661 \$	1.021 \$	1.248 5	142	3,094 \$	17.742	\$ 539.151	\$ 507.244	\$ 31.907
27 SALES LLF CLASSES	\$ 331,649 \$	728,059	\$ 1,369,386 \$	748,776 \$	523,137 \$	229,285 \$	67,106 \$	2,909 \$	9.667	1.097	\$ 23,977 \$	137.468	\$ 4.177.515	\$ 3.930.291	\$ 247.224
28 Non-Grandfathered HLF CLASSES	\$ 5,204 \$	11.423	\$ 21,486 \$	11,748 \$	8,208 \$	3,598 \$	1,053 \$	124 \$	152	17 9	\$ 376 \$	2,157	\$ 65,546	\$ 61,667	\$ 3,879
29 Non-Grandfathered LLF CLASSES	\$ 42,085 \$	92.389	\$ 173.771 \$	95.016 \$	66.385 \$	29,096 \$	8516 \$	1 004	1 227	130	2 2043 \$	17 444	¢ 520.116	A09 744	C1212 \$

30 REMAINING CAPACITY RELEASE COSTS BY CLASS 31

32	Nov-07	Dec-07	Jan-08		Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
33																
34 MONTHLY DEMAND % 35	7.939%	% 17.428%		32.780%	17.924%	12.523%	5.489%	1.606%	0.189%	0.231%	0.026%	0.574%	3.291%	100.000%	94.082%	5.918%
36 Res Heat	, \$7	•	*	ده ۱	67	,	•	•	۶۶ ب	•	, ,	•	,	, \$, •	۰ ب
37 Res General	•	•	₩	به	• • ?	1		•	•	•	•	•	,	•	,	•
38 G50 Low Amrual-Low Winter	, •>	•	÷	۰ مە	••	,	•	, \$	•	•	, ,	•			' \$	•
39 G40 Low Annual-High Winter	•	• •	₩	\$	••	,		•	• •	•	•	•	,	•	, •	, • • •
40 G51 Med Annual-Low Winter	، ج	•	₩	₩	• • >	1	•	, ج	•* •	•	•••	•	1	•	•	, \$
41 G41 Med Armuel-High Winter	۰ ج	' ئ	÷	به	47	1		•	•••	•	•	•	'	•	,	, \$
42 G52 High Annual-Low Winter	، ج	، م	₩	به ۱	•			، ج	•	•	•	•	,	•	•	, \$
43 G42 High Annual-High Winter	، ج	' ه	€7	به	• • >	رس ۱	•	•	•	•	• •	••	1	•	•	, \$
44 Non-Grandfathered 150 Low Annual-Low Winter	, م	۰ م	€	به	ب	,	•	•	• •	•	•	•	'	•	' \$, \$
45 Non-Grandfathered 140 Low Annual-High Winter	، ج	۰ ج	₩	به	67	1	•	, •	• •	•	•	•	1 1	•	، ج	, \$
46 Non-Grandfathered T51 Med Annual-Low Winter	۰ ج	' ډ ه	₩	₩ •	ده		•	•	•? •	•	هم ۱	•	,	•	•	, \$
47 Non-Grandfathered T41 Med Annual-High Winter	, \$7	، ج	¢9	ده ,	• • >	,	•	, \$	•	,	ر د د	•	1	، ج	, \$, \$
48 Non-Grandfathered T52 High Amual-Low Winter	م	' ډ ه	€7	₩ ,	• • >	•	•	۰ ج	• •	•	•	•	,	, \$	' \$	' \$
49 Non-Grandfathered T42 High Amnual-High Winter	' \$≯	•	€9	• • •	\$ 9	•		۰ ۶	• • •	,	• •	•	,	, \$	۰ ۲	, \$
50																
51 TOTAL	• \$9	•	€9	• • >	• / >	ر ۍ ۱	•	•	•	•	, , \$	•	•	•	' \$	•
52																
53 Residential	, \$	' ج	€7	به	ب	,	•	، ج	•	•	ر ب	••	1	, \$	' \$, \$
54 SALES HLF CLASSES	، م	•	₩	به	• •	1		•	• • •	•	•	•	1	•	' \$	•
55 SALES LLF CLASSES	م	, •>	÷	به	• •	رس		•	• • •	•	- -	•	'	، د	' •	, \$7
56 Non-Grandfathered HLF CLASSES	, م	•	₩	به	• •	,		, \$	• • •	•		•	'	•	•	, \$
57 Non-Grandfathered LLF CLASSES	' ۶	' ج	€9	• •	رب	'	,	, \$7	ۍ ۲	,	, , \$	•	وس	•	•	•
58																
59																
00																

Page 3 of 7

.

Schedule JAF-11

SMBA-NH_2007_Summer_OffPeak.xls Rennaining

Image: bit is a second of the proper second of th	Normern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations REMAINING COSTS	VISION) Calculation	SL												Sct	Schedule JAF-11
International problem Internation problem International problem <		Y CLASS	50			:	:	:	:	-		-				
Instruction 128 <th< th=""><th></th><th>IN-YON</th><th></th><th>Jan-U8</th><th>Feb-U8</th><th>Mar-08</th><th>Apr-08</th><th>May-07</th><th>Jun-07</th><th>Jul-07</th><th>Aug-07</th><th>Sep-07</th><th>Oct-07</th><th>TOTAL</th><th>WINTER</th><th>SUMMER</th></th<>		IN-YON		Jan-U8	Feb-U8	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
Interfact 1 2		7.939%		32.780%	17.924%	12.523%	5.489%	1.606%	0.189%	0.231%	0.026%	0.574%	3.291%	100.000%	94.082%	5.918%
Minimum Image Minimum		5	\$	•	•	•	•	•	•	•		,	, \$, \$	•	' \$
Internationalizatizationalizationalizationalizationalizationalizationa		, , 		 	•	•	· ·		•	1			, •	, •> •	, •> •	, 69 6
Control S </td <th></th> <td>, , ,</td> <td>, , ,</td> <td></td> <td></td> <td>• • •</td> <td>•••</td> <td>, ,</td> <td>· ·</td> <td>• •</td> <td></td> <td>, , ,</td> <td> </td> <td></td> <td></td> <td>, , A 64</td>		, , ,	, , ,			• • •	•••	, ,	· ·	• •		, , ,	 			, , A 64
Michanie S<		•	•		•			1	•	'		,	,		, ,	
Control Second		, \$	' \$		•			,	1	,	,	•				
model manual manuu manual manua manual manua manual manual manual manual manual manu			, •		•			,	,	,			,		, 	
increationation into introversion into into into into into into into i		, , ,	•					'	•	'			,		, 	
incontantationality (incontantationality		• •		, ,				•	• •						, , , ,	
Constrained (1) (No. S		• •	, , 				· ·			, ,				, ,	, , Perez	
Total control for the formation of				,	'					•					, , ,	, , ,
Merrorandemotionment 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 5 1 3 3 1 3 3 1 3 3 1 3 3 1 3					•					•				,	,	•
TOTAL 5 6 5 <th></th> <td>' \$</td> <td></td> <td>•</td> <td>,</td> <td></td> <td></td> <td></td> <td>•••</td> <td>•</td> <td>,</td> <td>'</td> <td>,</td> <td>•</td> <td>•</td> <td>' \$</td>		' \$		•	,				•••	•	,	'	,	•	•	' \$
SALES INF CARSES 5		•		,	• •	¢7	•		• •	•				•	, \$, \$
Statistic for classics 9																
Microalistic L/AGES Image Image <th></th> <td></td> <td>, 19 1</td> <td>, ,</td> <td></td> <td></td> <td>ю е</td> <td></td> <td>• •</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td>,</td>			, 19 1	, ,			ю е		• •	•					,	,
Non-Conditinationed LIF CASSES F <th< td=""><th></th><td></td><td>, ,</td><td></td><td>• •</td><td></td><td></td><td></td><td>• •</td><td></td><td></td><td></td><td></td><td></td><td> -</td><td>, ,</td></th<>			, ,		• •				• •						 -	, ,
Image: constrained of SYSTEM REVIND Image: constrained of SYSTEM REVIND <thimage: constrained="" of="" revind<="" system="" th=""> Image: con</thimage:>			• • •	•	•				• •	•					, , ,	• •
Monthly below Monolity Decort Janobi Report Junof Junof Auge/1																
MOTHLY DEMAND % 739% 1/4.26% 2.649% 1.80% 1.80% 0.21% 0.26% 0.51% 0.000% 0.602% 0.60		Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
Retitat Second sec		7.939%	17.428%	32.780%	17.924%	12.523%	5.489%	1.606%	0.189%	0.231%	0.026%	0.574%	3.291%	100.000%	94.082%	5.918%
Control S </td <th></th> <td>\$</td> <td>•</td> <td>•</td> <td>\$ '</td> <td>\$ '</td> <td>ده ۲</td> <td>· ·</td> <td>•</td> <td>,</td> <td>'</td> <td>'</td> <td></td> <td>, \$</td> <td>•</td> <td>•</td>		\$	•	•	\$ '	\$ '	ده ۲	· ·	•	,	'	'		, \$	•	•
G0 (ON mutuality) Writer 5 <th></th> <td>•</td> <td>, •</td> <td>•</td> <td>, ,</td> <td></td> <td></td> <td>'</td> <td>•</td> <td>•</td> <td>•</td> <td>,</td> <td></td> <td>, \$</td> <td>•</td> <td>, \$</td>		•	, •	•	, ,			'	•	•	•	,		, \$	•	, \$
Contractively writer 3 - 3 3 3 3 3		,	, 	• •	• ,		• • •	' '	••• •	•	1	,		, •> •		,
Contractivity in the manual high whete Contractin thigh whete Contractivity in the ma			, • •	I					, ,	•					, •••	
G87 High Annati-law Write 5 <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•••</td> <td>•</td> <td>•••</td> <td></td> <td></td> <td></td> <td></td> <td>, , ,</td> <td>, , ,</td> <td>, , ,</td>							•••	•	•••					, , ,	, , ,	, , ,
G2t High Annual High Writer 5<				,				1	1	'	,	,	•			,
Mono-Garactification of the Manual-HQU Market 9 5 </td <th></th> <td>د</td> <td></td> <td>•</td> <td></td> <td>•</td> <td>,</td> <td>•</td> <td></td> <td>•</td> <td></td> <td>,</td> <td>,</td> <td></td> <td>ج</td> <td></td>		د		•		•	,	•		•		,	,		ج	
Monocalaritationeral for Manual Witten S				1 1							• •					
Non-Gardefinered 141 Multi- modared framed 171 Med Armai-High Writer 5 <th< td=""><th></th><td></td><td></td><td></td><td>, ,</td><td>,</td><td></td><td></td><td>• •</td><td>•</td><td></td><td></td><td></td><td></td><td>, , ,</td><td></td></th<>					, ,	,			• •	•					, , ,	
Non-Grantalitatered 12: High Annal-Low Writer 5 - 5 </td <th></th> <td></td> <td></td> <td>ı</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>•</td> <td></td> <td></td> <td>,</td> <td></td> <td>•</td> <td>, •</td>				ı					•	•			,		•	, •
Non-Garactive 5 <				•	ı				•	•	•	'			•	•
TOTAL 5 · 5 <th></th> <td>•</td> <td>,</td> <td>I</td> <td>'</td> <td></td> <td></td> <td>, ,</td> <td>, ,</td> <td>1</td> <td></td> <td></td> <td></td> <td>, A</td> <td>•</td> <td></td>		•	,	I	'			, ,	, ,	1				, A	•	
Residential \$ * <th< td=""><th></th><td>\$</td><td>•</td><td>•</td><td>ده</td><td></td><td>به ب</td><td>,</td><td>•</td><td>,</td><td>'</td><td>•</td><td>•</td><td>\$</td><td>' \$</td><td>•</td></th<>		\$	•	•	د ه		به ب	,	•	,	'	•	•	\$	' \$	•
SALES HIF CLASSES \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		، ج	•	۰ •			ب	· ·	•	•	'	,	,	, \$, \$, \$
Non-Grandflahrend H.F. (ZASSES \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$								• •	 					 	 ათ	• •
									њ. 		· ·				· ·	

Page 4 of 7

3/14/2007 10:3-

	ş
	ς
,	6:01
ł	ģ
	_
ł	5
1	2
į	2
į	3

.

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations <u>REMAINING COSTS</u>

Schedule JAF-11

Page 5 of 7

.

REMAINING A&G BY CLASS

Month Jahr Jahr <t< th=""><th>MOUTHLY DEMNID % 7399% 7399% 7399% 7439% 2730% 7439%</th><th>1.606%</th><th>-</th><th>0.231%</th><th>0.026%</th><th>0.574%</th><th></th><th></th><th></th><th></th></t<>	MOUTHLY DEMNID % 7399% 7399% 7399% 7439% 2730% 7439%	1.606%	-	0.231%	0.026%	0.574%				
Image Image <th< th=""><th>Ret leat Ret leat</th><th></th><th></th><th></th><th></th><th></th><th>3.291%</th><th>100.000%</th><th>94.082%</th><th>5.918%</th></th<>	Ret leat						3.291%	100.000%	94.082%	5.918%
International Internat	The Greening (a) fract Greening (a) fract Greening (b) fract Greening (c) fract Gree			•	,	, •> •		,		
International Internat	Control in the interval in the interval in the interval interval in the interval interva					 • •				
Methodise (with the first sector) S	G1 MA Amustice Whete 5				, ,	, • •	, •	•		
International Internat	Model frameliegh where 5				, ,	, •		,	•	
c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (Oct Tripp, Annuality, When Cot Tripp, Annuality, When <td< td=""><td></td><td></td><td></td><td></td><td> </td><td></td><td></td><td></td><td></td></td<>					 				
Interformer	Operations Operation				, ,	, • •		,	,	
Monoment (10 in Annulywent (10 in Annulywen	Non-Ginandiament (1: Non-Armeal-lign) Writers 5 </td <td></td> <td></td> <td></td> <td>, ,</td> <td>, \$</td> <td>•</td> <td>ı</td> <td>ŀ</td> <td></td>				, ,	, \$	•	ı	ŀ	
Operation (1) Second (1) Seco	Monoclassifies Sector Sector <th< td=""><td>9 69 69 1 1 1</td><td></td><td></td><td>, ,</td><td></td><td></td><td></td><td></td><td></td></th<>	9 69 69 1 1 1			, ,					
Matrix for physical works for the physical wo	Non-Gandifinated 1/2 (ligh Annakity) where 2 2 2 5 2 5					, ,	, ,		,	
Montanework 1 2 2 3 5 <th< td=""><td>Non-Gandialhered 1/2 Flippi Annai-High Writer 5<!--</td--><td>•</td><td>•</td><td>'</td><td></td><td>' \$</td><td>, \$7</td><td>\$</td><td>ı</td><td></td></td></th<>	Non-Gandialhered 1/2 Flippi Annai-High Writer 5 </td <td>•</td> <td>•</td> <td>'</td> <td></td> <td>' \$</td> <td>, \$7</td> <td>\$</td> <td>ı</td> <td></td>	•	•	'		' \$, \$7	\$	ı	
TOTAL 5 <td>TOIAL \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ > ></td> <td>• • •</td> <td>•\$</td> <td>'</td> <td>' \$</td> <td>, \$</td> <td>•</td> <td>•</td> <td>·</td> <td></td>	TOIAL \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ >	• • •	• \$	'	' \$, \$	•	•	·	
Methodistic Since is a constraint of the con	Residential 5 <th< td=""><td>•7</td><td>•</td><td></td><td>, ,</td><td></td><td>, •</td><td>,</td><td></td><td></td></th<>	•7	•		, ,		, •	,		
ALTENIE 2 2 5 </td <td>Residential 5</td> <td>•</td> <td>•</td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td>	Residential 5	•	•			,				
SALE HF CLASSES 5	SALES HIF CLASSES 5	\$ ' \$	•		, ,	•	•	, •	'	
Statistication Statisticatistication Statistication	SALES 5 <td>•••••</td> <td>•••••</td> <td>1</td> <td>, ,</td> <td>,</td> <td></td> <td>, 19 4</td> <td>,</td> <td></td>	•••••	• •• ••	1	, ,	,		, 19 4	,	
Non-Galantiment H- LOASSIS S </td <td>Non-Grandfaithered HLF CLASSES <th< td=""><td>нэ е -</td><td>' '</td><td></td><td></td><td>, ** •</td><td>' *</td><td>, •</td><td>•</td><td></td></th<></td>	Non-Grandfaithered HLF CLASSES S <th< td=""><td>нэ е -</td><td>' '</td><td></td><td></td><td>, ** •</td><td>' *</td><td>, •</td><td>•</td><td></td></th<>	нэ е -	' '			, ** •	' *	, •	•	
TOTAL FRAMMING DEMANDICOTS BY CLASS WONTH MONTH, YPR DEMANDICOTS BY CLASS WONTH MONTH, YPR DEMANDICAT SA PKONTH S 27/30% 1/2/20% 5/2/30% 1/2/20% 6/6/96 MAUPOT JOIAL										

Ņ
10:35 /
2007
3/14/2

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations REMAINING COSTS

Schedule JAF-11

Page 6 of 7

.

REMAINING TOTAL COSTS BY CLASS

REMAINING TOTAL COSTS BY CLASS	10.00		90 	50 H-L		5	50 H	50	50 14	504	5	191-0	TOT AL	14/11/ED	
	10-A0M	10-00	00-1100	Len-00	00-18M	00-1dv	may-ur	In-line	In-Inc	in-finy	In-nac	70-170			
1 Res Heat		\$ 2,438,491	\$ 3,503,883	\$ 2,475,756	\$ 1,892,780	\$ 1,143,228	\$ 366,218	\$ 53,138 \$		ις Γ		2	\$ 14,134,293	\$ 12,792,947	\$ 1.341.346
2 Res General	\$ 9.014	5 15,523 S	\$ 21,777	\$ 16,563 * r0,563	\$ 12,110	\$ 7.908	\$ 2,322	5 744 \$	1,981		1,340 \$	4.736	\$ 94,339 * 764,052	5 82,896 * 740,844	5 11,443
	201,05 ¢	1 367 00R	\$ 1065168	\$ 1 384 274	\$ 1062331	5 640 418				1 957 9		4	\$ 7917532	2 7 170 027	5 747.505
		5 205,149	\$ 298,519	\$ 219.114	\$ 158.996	\$ 102,103							\$ 1.227,236	\$ 1,101,537	\$ 125,698
6 G41 Med Annual-High Whiter	\$ 754,275	\$ 1,372.863	\$ 1.967,450	\$ 1,390,358	\$ 1,066,752	\$ 645,219		\$ 31,132 \$	16,965 \$	2,466 \$	83,429 \$	415,111	\$ 7.954.380	\$ 7,196,917	\$ 757,463
		343,440	\$ 447,126	\$ 348,226 • 373,042	\$ 272,775	\$ 178,305 * F0.000				•			\$ 2,004,984 • 1 4 5 0 0 1	\$ 1,789,060 • 1 311 167	5 215.924 • 444.924
0 G42 High Amuai-High Wither 0 Non-Granifalbarad T50 I cui Amuai-li cui Wieler		200,241	\$ 432,004	4 17 738	3 102,100		100,41 4			-	5 P20'0		4 00.00 A	88 555	10.433
_		63.608	\$ 84 004	5 64 354	\$ 50 375	\$ 32 103		1651 \$					\$ 370.273	\$ 331.842	\$ 38,430
		33,133	\$ 48,998	\$ 35,491	\$ 25.572	\$ 16.250					2,930 \$		\$ 197,423	\$ 178,310	\$ 19,113
	-	\$ 329,248	\$ 464,282	\$ 334,124	\$ 256,842	\$ 157,971		8		304 9	20,998 \$	101,428	\$ 1,909.617	\$ 1,725,440	\$ 184,177
	\$ 582 3	\$ 1,277	\$ 2,401	\$ 1,313	\$ 917	\$ 402	\$ 118	5 14 \$			447 \$	554	\$ 8.568	\$ 6,891	\$ 1,677
14 Non-Grandfathered T42 High Annual-High Winter	\$ 71,645 \$	5 127,498 S	\$ 171,628	\$ 129,340	\$ 100,091	\$ 62,433	\$ 18,179	\$ 279 \$			5,591 \$	39,106	\$ 732,513	\$ 662,635	\$ 69.878
15 TOTAI	\$ 3 620 79B	\$ 6618755 S	\$ 9 497 841	\$ 6739.615	\$ 5128872	\$ 3 078 184	\$ 976.368	\$ 155.557 \$	181.923 \$	28.268	403.389 \$	1 942 633	\$ 38.367.199	\$ 34.679.067	\$ 3.688.133
	\$ 1,347,822			\$ 2,492,319	\$ 1,904,890	\$ 1,151,137			37,744 \$	5,614	147,802 \$		\$ 15,966,251	\$ 14,449,841	\$ 1,516,410
		591,778	807,431		\$ 465,459	\$ 305,193			18,777	2.977			\$ 3,493,272	\$ 3,131,438	\$ 361,834
	1,609.027	3,001,102	4	3.0	\$ 2,311,249	\$ 1,343,737		-	112,807	17,721	170,531 \$	856.426	\$ 31,462,206 * 304,070	\$ 28,471,058	5 2,991,147
21 Non-Grandiamered HLF ULASSES 22 Non-Grandfathered LLF CLASSES	\$ 290,985	5 520,444	\$ 720,815	\$ 527,819	\$ 40,016 \$ 407,258	\$ 252,596	\$ 79,654	\$ 2,302 \$ \$ 10,152 \$	3,996 \$	1,379	30,899 \$	161,405	\$ 3,012,403	\$ 2,719,918	\$ 292,486
23 24															
25 26 TOTAL DEMANING COMMONITY COSTS INCLUDING INTERPLIDIELE					,		Allocate to alocate	(Manda ta dama basad an Bandala da Analisia	Condout)						
					(FIGH CONTRIOURLY LAD)			ILIAN IIO DASPO SE							
28	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
													000 000 10		
30 TUTAL REMAINING	\$ 2,621,610	\$ 4,405,042	\$ 2,329,129	\$ 4,462,911	\$ 3,538,238	\$ 2.392,661	\$ 112,328	\$ 131,503 \$	\$ 099'261	24,932	330,480 \$	700,420,1	\$ 220,000,022	\$ 22,149.591	\$ Z.930,431
32 Res Heat	6	1,605,354	\$ 1,936,859	\$ 1,618,912	\$ 1,294,140	\$ 885,155	\$ 289.427	\$ 44,087 \$	24,702	4,038	119,025 \$	577,162	\$ 9,361,538	\$ 8,303.097	\$ 1.058.441
33 Res General		\$ 11,013	\$ 13,293		\$ 8,869	\$ 6,519	\$ 1,906	\$ 695 \$	1,921	314 9	1,191	3,884	\$ 68.514	\$ 58,603	\$ 9,911
34 G50 Low Amina Low Winter		28,594	\$ 34,334	\$ 35,592	\$ 23,200	\$ 20,287	\$ 1,288	\$ 4,882 \$	2,709	443	5,934 \$		\$ 177,474	\$ 162,219	\$ 15,255
		900,558	\$ 1,085,973		\$ 726,458	\$ 495,619	\$ 163,939	5 25,010 \$		1,248	66,685 \$	324.260	\$ 5,239,719	5 4,650,941	5 588,778
		129,022	\$ 155,334		5 104,296	5 78,510 5 705,110					002.92	40,911	CUL'LA/ \$	5 091,250 1700 274	5 99,848 5 600 578
	5 245,005	910,699	\$ 1,098,1/9	\$ 915,044	\$ 134,51U	\$ 502.113	10/,001 4	20,111 3 6 0,627 6	070'01		00'500 184 8	321,040	4 0,000,099 C 1 705 610	4,700,371 4 1 5 3 3 1 4	
		107 730 4	4 333,003		t 77,683	4 10 100				-			5 581 DOG	4 488 052	27080 \$
40 Non-Grandfathorial TEO I are Aminiki me Winter		14 752	4 17 701		<pre>4 11 007</pre>	\$ 8 100		473 \$		2	1159	5 310	\$ 86.118	\$ 76.451	199.6
		51.699	\$ 62.334	\$ 52.013	\$ 41.703	\$ 28,553			777 \$		3.915	18,606	\$ 301,667	\$ 267,311	\$ 34,356
		19,686	\$ 23,706	\$ 21.662	\$ 15,910	\$ 12.074	\$ 3.515	\$ 1.645 \$	2,883		2,487	3,546	\$ 120,371	\$ 105.825	\$ 14.547
	-	5 229,590	\$ 276,838		\$ 185,234	\$ 127,204	\$ 41,773	\$ 7,139 \$	943 \$		17.716	82,611	\$ 1,338.894	\$ 1,188,558	\$ 150.337
	•		, \$	•	•	•		• •• •	452	74	405	313	\$ 1.243	5	\$ 1.243
45 Non-Grandfathered 142 High Annual-High Winter	\$ 60,168	101,839	\$ 123,366	\$ 102,951	\$ 81,654	\$ 54,617	\$ 15,814	· 3	5,453	891 3	4,746	34,261	\$ 585,781	\$ 524,596	\$ 61,165
46 47 TOTAI	\$ 7 621 610	\$ 4 405 042	\$ 5320120	\$ 4 462 911	\$ 3538238	\$ 2.392 661	\$ 772 328	\$ 131.503 \$	152.530 \$	24.932	330.486 \$	1.524.652	\$ 25,686,022	\$ 22.749.591	\$ 2.936.431
48						Ĩ									
			\$ 1,950,152	\$ 1,630,837	\$ 1.303.010	\$ 891,675	\$ 291.333	\$ 44,782 \$	26,622	4,352	120,216	581,046			
50 SALES HLF CLASSES	\$ 281,005				\$ 365.110	\$ 262,487	\$ 78,101 * 220,700	5 24'822 5	16,922	5 2,766 %	44,948	146,851		#KEFI 4 18 148 467	#KEF!
		066'016'1 4	\$ 2,330,188 \$ A1 AD7	4 36,578	-	512 UC \$	\$ 329,100	2117 5		-	4.051 5	9,168	\$ 207.733		\$ 25.457
53 Non-Grandfathered LLF CLASSES	\$ 229,239	\$ 383,127	\$ 462,539	\$ 386,594	\$ 308,591	\$ 210,375	\$ 66'998	\$ 8,660 \$	7,172	1,172	26,377	135,478	\$ 2,226,322	\$ 1,980,464	\$ 245,858
55															
56															

3/14/2007 10:35 AM

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations REMAINING COSTS

TOTAL REMAINING INTERRUPTIBLE COMMODITY COSTS

TOTAL REMAINING INTERRUPTIBLE COMMODITY COSTS	MMODITY	COSTS				(From C	(From Commodity tab)	(de)	2	Allocate to c	asses based	on Rem	(Allocate to classes based on Remaining Sendout)	ut)											
	Nov-07	1	Dec-07	 	Jan-08	Feb-08	-08	Mar-08		Apr-08	May-07	1	Jun-07	Jul-07		Aug-07	Sep-07	-07	Oct-07		TOTAL	3	WINTER	SUMMER	MER
1 TOTAL REMAINING	°0 \$	9,213 \$		ى	'	€	1		67	\$ 11,633	9									\$	20,846	↔	20,846	€9	,
3 Res Heat	ۍ ج	3.383 \$	'	\$	'	\$,			\$ 4,30	3	ب ب	,	69	۰ ب	•	\$,		↔	7,687	\$	7,687	€	ı
4 Res General	••	25 \$	'	69	•	•••			, 63		2	•	,	••	•••		••	,		\$	56	\$	56	\$	
5 G50 Low Annual Low Whiter	\$	71 \$	•	\$,	\$,		, 63	66	9 9	•••	•	•	•••	•	69	,		••	170	\$	170	\$	
6 G40 Low Annual-High Winter	\$	1,894 \$	'	\$	•	\$	1		1	\$ 2,41	\$ 0	•••		*	•••	,	69	1		\$	4,303	\$	4,303	€9	
7 G51 Med Annual-Low Winter	•	293 \$	'	•	•	•?	,		، جە	38	2 \$	• •	•	•	\$	•	€9			••	674	\$	674	\$	
8 G41 Med Amual-High Winter	\$ 1.	1,918 \$	`	\$	'	ŝ	,		,	2,44	1 \$, ,	'	€	• •	•	€9	,		\$	4,359	\$	4,359	\$9	,
9 G52 High Annual-Low Winter	\$	624 \$	'	•	,	••	,		,	6/ 9	6 \$	• •	•	\$	ده ب	•	\$	1		\$	1,420	\$	1,420	\$,
10 G42 High Anmail-High Winter	\$	125 \$	•	\$,	Ś	,		1	4	\$ 5	•	•	••	•••	•	\$	1		\$	174	\$	174	\$,
11 Non-Grandfathered T50 Low Annual-Low Whiter	\$	31 \$		*	,	\$,		,	4	\$ 0	•	'	€	• •	•	\$	1		*	12	↔	1	\$,
12 Non-Grandfathered 140 Low Annual-High Winter	÷	109 \$		\$	•	\$,		•	13	6 \$, ,	1	••	, \$	•	•>	1		\$	248	↔	248	\$,
13 Non-Grandfathered 151 Med Annual-Low Winter	Ś	45 \$		•>	,	₩	,		,	5	9 8	•	•	€	ب	•	€9	,		•••	104	\$	104	€9	,
14 Non-Grandfathered T41 Med Annual-High Winter	•	485 \$	'	\$	'	€	,		•	61	8 \$	÷	•	\$	ب	•	€9	1		**	1,104	\$	1,104	\$,
15 Non-Grandfathered 152 High Annual-Low Winter	÷	ده ,	'	•	•	•?	,		,	'	÷	•	•	€7	به	•	÷	1		\$	•	•9	ı	\$	
16 Non-Grandfathered T42 High Annual-High Winter	\$	211 \$	•	\$	•	69	,		, ,	5 266	e \$	ŝ	ι	€9	به ۱	•	••	,		\$	477	69	477	\$,
17																									
18 TOTAL 19	5 \$	9,213 \$	•	€		\$	1			11,633	ر ه د	به ب	•	€7	ده ۱	•	\$	•		\$	20,846	\$	20,846	69	,
20 SALES HLF CLASSES	\$ 1,6	012 \$	•	÷	•	69	,		, \$	1,30	8	, •	,	\$	• •	,	63	,		••	2,320	\$	2.320	\$	
21 SALES LLF CLASSES	\$ 7.	319 \$	'	ŝ	,	ŝ	,		•	9,20	3 \$	ب	•	\$	ب	•	\$	1		\$	16,523	\$	16,523	69	,
	\$	76 \$	'	÷	,	\$,		•	66 9	\$ 6	, \$	•	\$	ب ه	,	679	,		••	175	••	175	€9	
23 Non-Grandfathered LLF CLASSES	\$	806 \$	'	€	•	\$,		, •••	1,02	3 \$	¢ ?	•	\$	ده	•	€9	,		↔	1,826	\$	1,828	€9	

Schedule JAF-11 Page 7 of 7

.

V HAMPSHIRE DIVISION d Alloctor (SMBA) Calculations 3/14/2007 1:59 PM Northern Utilitir V HAM Simplified Mar. d Allo Cost Summary

(

Page 1 of 4 Schedule JAF-1;

Summary of Gas Costs

Line	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May.07	1							
1 BASE COMMODITY							in form	10-1000	10-IDC	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
2 Res Heat	\$ 310,888	\$ 341,909	\$ 353.222	\$ 330.531	120 145 \$	\$ 305 JE	000 120 4								
5 CEAL and A		\$ 19,107	\$ 19,739	• • •	19,440	\$ 300,240 \$ 17,114	\$ 2/1,996 \$ 15 200	\$ 259,941	272,335	\$ 251,218	\$ 275,028	\$ 291,361	\$ 3,608,947	\$ 1.987.067	\$ 1601 BRD
	-	\$ 144,130	\$ 148,899	ر ب	145	\$ 129.007	114 CEO	070'41 4	15,219	5 13,474			\$ 201,113	\$ 111.042	
		\$ 95,898	\$ 99,070	\$	\$ 96,560	\$ 85,895	\$ 76,280	110'601 4	76 304	5 113,947	\$ 115,937	\$ 121,043	\$ 1,527,605	\$ 837,640	Ψ.
8 G41 Med Annual-Hinh Winter		\$ 246,320	\$ 254,470	ŝ		\$ 220,628	\$ 195 953	\$ 187 268 6	10,304	69,721			\$ 1,011,486	\$ 557,326	
		\$ 125,412	\$ 129,562	64		\$ 112,331	\$ 99.768	\$ 065346 \$	060,150	191,023		\$ 209,904	\$ 2,610,021	\$ 1,431,536	-
10 G42 High Annual-High Winter	5 151 132 5 151 133	\$ 81,250 \$ 100,510	\$ 83,938	\$		\$ 72,775	\$ 64,636	\$ 61.771 S	58 575	5 65 620	5 100,880	-	\$ 1,322,106	\$ 728,856	
11 Non-Grandfathered 750 Low Annual-Low Winter	=	01000 4	5 186,483	\$ \$	₩	\$ 161,682	\$ 87.941	\$ 31,853 \$	143 770	00,000 5 52 714			\$ 857,556		
	+00'0 +		a 4,015	\$ 3,757		\$ 3,481	\$ 3,091		3.056	3110		120'071	5 1,561,522	,	\$ 512,453
		φ α'304	5 40 440	69 (\$ 7,671	\$ 6,813		6,822	4 0, 143	4 3,120	4 3,312 6 7,000	5 41,273	\$ 22,585	
		5 50 730	5 52 443	به		\$ 36,798	\$ 32,683		32.723	30.275		4 1,298 5 25 010	5 90,235		
15 Non-Grandfathered T52 High Annual-Low Winter		\$ 10.233	\$ 12,416 \$ 12,106	4 48,050 4 14 066		\$ 45,447	\$ 40,364	\$ 38,575 \$	40,414	\$ 40,125	\$ 40,814	\$ 43.238	433,135 \$ 538,407	\$ 238,763	
10 Nor-Grandfathered T42 High Annual-High Winter 17	\$ 24,603	\$ 27,058	\$ 27,954) 69	\$ 27.245	5 74 736	\$ 7,103 \$ 21,526	\$ 767,7 \$	9,885	5 9,583		\$ 10,576	\$ 118,246	5 63.320	5 54 977
18 TOTAL	\$ 1 JED EDD					00212	070'17 4	t 775'N7 t	200'17	\$ 16,227	\$ 21,766	\$ 23,058	\$ 281,705	\$ 157,255	-
	4 1, 2JU, 033	\$ 1,3/6,1UT	\$ 1,423,165	\$ 1,332,399	\$ 1,385,767	\$ 1,233,177	\$ 1,038,022	\$ 940,584 \$	\$ 1,080,468	\$ 975.026	\$1023612	\$ 1 144 038	\$ 11 703 DEC		
20 Residential	\$ 328,262	\$ 361.016	\$ 372 960									÷	¢ 14,2U3,95	\$ 8,001,307	\$ 6,202,645
21 SALES HLF CLASSES		\$ 471,700	\$ 487.307	ə 69	\$ 474 050	\$ 323,360 \$ 422,500	\$ 287,196	\$ 274,467	287,554	\$ 264,693	\$ 290,398	\$ 307,643	\$ 3.810.060	\$ 2 008 100	
	(.)	\$ 401,820) 69					369,525				\$ 4,995,181		106,117,1 \$
	\$ 49,643	\$ 55,203	\$ 58,563	\$	\$ 55.745	\$ 50.055	\$ 42,870	\$ 200,106 \$	308,936		\$ 238,158		\$ 3,895,114	2	
	\$25°'81 \$	\$ 86,362	\$ 89,219		\$ 86,958	\$ 77,354	\$ 68,703	\$ 65.408 \$	40,004 68 788	\$ 62.480	\$ 46,156 * 60,460	\$ 48,897	\$ 593,254	\$ 324,668	\$ 268,586
26 27											20		\$ 910,347		
28 REMAINING COMMODITY															
-	\$ 959 293	\$ 1 605 254	010 JUJ 5												
	\$ 6.959	\$ 11013	3 1,936,859	8.	\$ 1,294,140	\$ 880,852	\$ 289,427	\$ 44,087 \$	24.702	5 4 03A	\$ 110 D75				
		\$ 28.594	5 34 334	A 4	\$ 8,869 5 20,000	\$ 6,488	\$ 1,906	\$ 695	1,921	5 314	-	201,110 \$	5 9,353,851	\$ 8,295,411	1,05
	4,	\$ 900,558	\$ 1.085.973	280'00 \$	\$ 735,200	\$ 20,188	\$ 1,288	4	2,709		5 5,934	+00'r +	4 00,450 4	5 162 040	5 9,91
		\$ 129,022	\$	→ •⁄1	\$ 104 205	\$ 493,209	\$ 163,939		7,636			\$ 324.260	\$ 5.235.416	\$ 4 646 63P	107'CI 4
	\$ 543,748	\$ 910,699	\$	\$		\$ 100 E70	23,250		8,185	\$ 1,338		\$ 40,911	\$ 790.431	5 690 582	
36 G42 High Annual-Low Winter	\$ 176,897	\$ 294,504	69	6		162 804	\$ 100,/51 \$ 52,553	.~	10,828			\$ 327,848	\$ 5,302,540	\$ 4 702 013	4
	5 35,393	\$ 107,732	\$ 146,035	69	\$ 72,583	\$ 10.070	* 00'00 *	ת ת	6,029	!		\$ 105,940	\$ 1,724,199	\$ 1.524,891	
	4 8,855 6,855	5 14,752	\$ 17,791	69		\$ 8,160	\$ 2681	- 472	000	a 13,0/2		, •	\$ 580,925	\$ 487,878	\$ 93.04
39 Non-Grandfathered T51 Med Annual-Low Winter	5 10 70 4	5 10 595	5 62,334	6 7 (\$ 41,703	\$ 28,414	\$ 9,410	\$ 1.521 9	5C 777	0 C C C		5 5,310	\$ 86,047	\$ 76,380	
	-	4 13,000	\$ 23,706	6	\$ 15,910	\$ 12,015	\$ 3,515	1.645		471	212,0 4	3 18,606	5 301,419	\$ 267,063	
	5		4 2/0,038	\$ 231,630	\$ 185,234	\$ 126,586	\$ 41,773		5 943		-	0 10,0 40	120,268 1 227 204 1 227 204 1	\$ 105,721	
42 Non-Grandfathered T42 High Annual-High Winter	\$ 59,956	\$ 101.839	\$ 123 366	4 102 DE1		· · ·	, \$,		\$ 74		\$ 07,011 \$ 313	181,100,1 \$	454,181,1 454	÷
				9	¢ 81,034	\$ 54,352	\$ 15,814	•	5,453		4	\$ 34.261	\$ 585 284	5 574 110	
44 IUIAL 45	\$ 2,612,396	\$ 4,405,042	\$ 5,329,129	\$ 4,462,911	\$ 3.538,238	\$ 2 381 028	906 622 3	201 101				107110	to3'000 +	611' 5 20 ¢	4 61,16
46 Residential						070'1 00'7 4	\$ 117'328	\$ 131,503 \$	\$ 152,530	\$ 24,932	\$ 330,486	\$ 1,524,652	\$25,665,177	\$22,728,745	\$ 2,936.43
	\$ 366,252	\$ 1,616,367	-	\$	\$ 1,303,010	\$ 887,340	\$ 291.333	\$ 44782	26.622						1
	\$ 280,017	\$ 452,120 \$ 1 018 000	5 544,753		\$ 365,110	\$ 261,211	\$ 78,101		20,022	\$ 766	\$ 120,216	\$ 581,046	\$ 9,422,310	\$ 8,353,957	*
	\$ 21,596		5 41 497	\$ 36 591	-	\$ 1,002,951	\$ 329,700	\$ 51,121	98,439	\$ 16,091	5 134,894	652,108	\$ 2,091,934 \$ 11 118 881	\$ 2,377,523 \$ 0,836,520	\$ 314,41
50 NUII-Standrathered LLF CLASSES	\$ 228,433	69) 69)	\$ 462,539	• • •	\$ 308.591	\$ 200 352	\$ 6,196 \$ 66,000		3,374	\$ 551		9,168	\$ 207,558	\$ 182.101	-
52					, 	100,004	¢ 00,330		1,172		\$ 26,377	\$ 135,478	\$ 2,224,494	-	\$ 245,85

57-A

3/14/2007 1:59 PM	'I HAMPSHIF d Alloctor (S	
3/14/2007	Northern Utilitir Simplified Mari Cost Summary	ł

'I HAMPSHIRE DIVISION d Alloctor (SMBA) Calculations

<u>(</u>. .

Summary of Gas Costs

LINE 1 TOTAL COMMODITY	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aua-07	Sen-07	Oct-07	TOTAL			ļ
2 Res Heat	C 1 770 107	000 210 14								7		10-100	IUIAL	WINIER	VINS	SUMMER
3 Res General	<u>,</u>	5.	22	\$1,0	\$ 1,638,411	\$ 1,187,098		304 028	\$ 207.037							
			л (\$		\$ 23,602	64	15 221			"	\$ 868,523	\$ 12,962,798	10,282	2	680.321
5 G40 Low Annual-High Winter		a 1/2,/24	-	\$	÷	\$ 149,285	- 69	114 450	417 F14			A (\$ 169,589		99 982
			-	64	ф	\$ 579,104		71070				•	\$ 1,704,909	666		05 220
7 G41 Med Annual High Wigton	796'906 ¢		67		ŝ		\$ 210 204	107 501			\$ 143,824	ф		5,203		1 042 938
		÷-			ŝ		• •	700 101				ŝ	\$ 3,400,451			78 222
	\$ 250,775		ŝ	3 \$ 376,444		\$ 735,66D	, 9	000 121	5 51 501		\$ 169,089	ŝ		\$ 5430 868		200,012,1
		\$ 288,242					9 6	1,398				ŝ		1 007	-	011.00
			ŝ		• • ⊌		87,941	31,853	3			G	\$ 2142447			84,665 25 2 2 2 2
			4		, 6	040		3,427								09,500
12 Non-Grandfathered T51 Med Annual-Low Winter		\$ 60 770) 4	• •		\$ 36,085		8,032			10.804) 6				28,355
		· ·	.	A (32,879				9 6				74,817
14 Non-Grandfathered T52 High Annual-Low Winter	-	N	'	59 (~	·		45.714	\$ 41357			A 6	\$ 554,003			09,515
	w.	\$ 128 807	4 12,106	^ 6	\$ 10,465	\$ 9,776	\$ 7,103	\$ 7.797	\$ 10.337	5 9 657	4 00,030 4 10,388		1,876	\$ 1,482,332	ი აი	393,866
16	00010	100'071 +	-	129,109	\$ 108,899			20,322				9 6	* 119,490	63		56,17C
17 TOTAL	\$3,863,095	\$ 5 781 142	100 02 J 4	e								9	4 000'A0A	\$ 681,373	г	85,61E
		741 10104	467'7C''0 ¢	1,05,090,310	\$ 4,924,005	\$3,614,206	\$ 1,810,350	\$ 1,072,087	\$ 1,232,998	\$ 999.958	\$ 1 354 098	\$ 7 660 FOU	C 30 860 130			
	\$1.294.514	¢1077387										٩.	\$ 22,002,132	\$ 30,730,052	49 9	,139,080
	5 708 021			-	\$ 1,666,519	\$ 1,210,700	\$ 578,530	319.250	\$ 314 176							
	\$ 1 AB1 461	170'070 4			67			383 439		* 273 567		A e	\$13,232,370	\$ 10,452,067		780,305
	+ 1 + 0 1 + 0 1 + 1 + 0 1	Ň	\$ 2,745,303	\$ 2	\$ 1,938,307	\$ 1,362,860	\$ 593,698		\$ 407,375	100,010 4	\$ 424,380 \$ 373,050		\$ 7,687,115	\$ 5,118,896	69	68,215
		4 03,041		\$				44 103				A (\$ 15,013,995	4	~	42.216
		408,489	\$ 551,758				\$ 135,700	74 068		4 43,338 6 63 65		69 (\$ 800,812	\$ 506,768		94.04
25								200				9	\$ 3,134,840	2		654,296
	\$ 14 024	\$ 14.018														
29 Res General			4	e e	4	14	\$ 14,784	15,592	\$ 14 221	\$ 14 537	¢ 15150	6				
	5 5 912		4 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	A (\$ 783	\$ 783	\$ 826	\$ 871	\$ 795	082	501.01 \$	4 4	\$ 1/2,719	84		88,65(
31 G40 Low Annual-High Winter	3.022			A (\$ 5,909	ŝ	9	6.573			u					4,92 [.]
	,		,	ю		e	4	4 373								37.74
	-	_	<u>,</u>	.	\$ 10,098	10		11 222				A ·				24 82
								1,400				64		ŝ		64 44
	\$ 3333	\$ 3,331	\$ 3,328	\$			0,470 9,440	0,114					\$ 63.320	69		22 40.
		~		ŝ				2,703				\$		69		07.00.
		\$ 159		4				1.9.1				\$. 64		24 JE:
		\$ 351		- 64				177				Ś				2, 20
20 Non-Orenorathered 151 Med Annual-Low Winter		-	1	• •				391				6	4 317			70'L
			- 65	÷ 4	400'- 4	a 1,684		1,874				- 69	`			2,21
	\$ 395		- 69	.			\$ 2,194	2,314	\$ 2,110	\$ 2,322	\$ 2.250	5 2131	\$ 25,706	4 10, 102 4 10, 102	A (10,65
4.1 Non-Grandfathered T42 High Annual-High Winter			• •	, 6	^ (468				• •				13,32
			7			\$ 1,109		1,219				,				2,99
43 TOTAL	\$ 56419	5 56 410	6	e								9				6,78
				1 4 56,419	\$ 56,419	\$ 56.419	\$ 56,419	\$ 56,419	\$ 56.419	\$ 56419	S 56.410	S 56 110	000 110 8			
45 Kesidential	\$ 14,808	\$ 14.801	S 14 785	u								•	4 0//,U33	338,516	ო თ	338,51
	•		• •					16,463			\$ 16 006	÷,	\$ 107 220			
			÷ 41	9 4				21,511				64				93,57
	\$ 2,239	\$ 2.263	• •7	, 4	4/2	5 16,466	\$ 14,349	\$ 12,003	\$ 16,132	\$ 13,543	\$ 13.127	\$ 15.504	\$ 183 A57		, е	23,29
49 Non-Grandfathered LLF CLASSES	\$ 3,542	\$ 3.541			9 6			2,518				- 69				84,65
00			•	÷	9			3,923				6	\$ 43.555	4 13,732 \$ 31 235		14,67
ō																25,32

57-B

: ; ; ;

-

Image: constraint of the	379,515 833,137 1,567,024 5 2,055 5 4,511 5 8,484 5 5 2,055 5 4,511 5 8,484 5 5 2,055 5 4,511 5 8,484 5 5 2,052 5 4,514 5 8,484 5 5 2,10,527 5 48,935 5 92,041 5 5 2,2291 5 48,935 5 92,041 5 5 5,466 5 12,000 5 22,501 5 24,245 5 5 5,466 5 1,270 5 93,648 1,576,508 5 26,041 5 5 10,6403 5,213,714 5 4,163,711 5,25 5 26,643 5 1,2745 5 1,2145 5 27,445 5 27,445 5 27,445 5 27,445 5 27,445 5 27,445 5 27,445 5 26,669 5 4,61,075 5 <	<pre>598,640 \$ 598,640 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,2,160 \$ 5,35,873 \$ 35,162 \$ 35,162 \$ 16,21 \$ 16,21 \$ 16,62 \$ 5,1590,634 \$ 10,349 \$ 5,1,590,634 \$ 10,349 \$ 5,1,590,634 \$ 36,667 \$ 98,667 \$ </pre>	POPO47-00000001 0 FORF0 000000000 0 FORF0 0000000000000000000000000000000000	1 5 9.051 6 5 9.051 6 5 5.078 8 5 5.078 8 5 5.078 8 5 5.078 8 5 5.073 8 5 5.021 8 5 5.021 8 5 5.021 8 5 1.063 6 5 1.083 6 5 1.083 6 5 1.083 6 5 1.083 7 5 2.194 9 5 1.083 6 5 1.482 7 5 5 7.492 5 1.412	1,062 5 6,074 5 6,137 5 7 1,298 5 7 1,138 5 7 1,298 5 7 1,298 5 7 1,298 5 7 1,138 5 7 1,298 5 7 1,138 5 7 1,138 5 1,138 5 1,13	8 C 2 Z 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	27,437 149 149 15,394 15,394 15,230 15,2000 15,2000 15,2000 15,2000 15,2000000000000000000000	00c-07 157,308 2,756 852 2,756 88,259 14,374 9,240 28,796 28,796 28,796 28,796 28,796 28,796 28,796 28,796 28,796 4,845 417,981		WINTER 4,497,536 24,349 24,349 2,523,389 410,365 2,494,905 2,494,905 2,494,905 2,494,905 2,494,905 64,779 64,779 64,779 138,516 138,516 138,516 138,516 11,950,321 11,950,321	SUN 2 2 1 1 2 2
mem Solution	Ree Heat File Heat State State State State <t< th=""><th><pre>598,640 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,2,470 \$ 5,35,162 \$ 35,162 \$ 1,621 \$ 1,621 \$ 1,622 \$ 1,608 \$ 5,1608 \$ 5,1690,634 \$ 5,1,590,634 \$ 5,1,590,634 \$ 5,1,590,634 \$ 5,1,537 \$ 398,667 \$ </pre></th><th>, 444444 4 4444444444444444444444</th><th> 9,051 9,051 150 153 1,657 5,078 5,07</th><th>11,062 60 60 6,207 1,011 6,137 6,137 6,137 1,011 1,59 1,59 1,323 1,12 29,393 29,393 29,393 1,366 1,366 1,366 1,366 1,366 1,366 1,366 1,366 1,366 1,366 1,366 1,377 1,366 1,377 1,366 1,377 1,376 1,377 1,376 1,377 1,376 1,377 1,376 1,377</th><th>255 77 77 77 704 711 704 71 704 75 75 75 75 75 75 75 75 75 75 75 75 75</th><th>27,437 149 18,481 15,394 15,394 15,200 15,200 15,200 15,200 15,200 395 395 3,282 845 845 27,586 27,586 4506</th><th>157,308 852 852 852 88,259 14,374 87,263 9,240 9,240 28,796 28,796 28,796 28,796 28,796 28,796 4,845 417,981</th><th></th><th>4,497,536 24,349 24,349 2,523,389 2,523,389 410,955 2,494,905 2,494,905 2,494,905 2,494,905 64,779 12,175 64,779 138,516 138,516 11,950,321 11,950,321</th><th></th></t<>	<pre>598,640 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,241 \$ 3,2,470 \$ 5,35,162 \$ 35,162 \$ 1,621 \$ 1,621 \$ 1,622 \$ 1,608 \$ 5,1608 \$ 5,1690,634 \$ 5,1,590,634 \$ 5,1,590,634 \$ 5,1,590,634 \$ 5,1,537 \$ 398,667 \$ </pre>	, 444444 4 4444444444444444444444	 9,051 9,051 150 153 1,657 5,078 5,07	11,062 60 60 6,207 1,011 6,137 6,137 6,137 1,011 1,59 1,59 1,323 1,12 29,393 29,393 29,393 1,366 1,366 1,366 1,366 1,366 1,366 1,366 1,366 1,366 1,366 1,366 1,377 1,366 1,377 1,366 1,377 1,376 1,377 1,376 1,377 1,376 1,377 1,376 1,377	255 77 77 77 704 711 704 71 704 75 75 75 75 75 75 75 75 75 75 75 75 75	27,437 149 18,481 15,394 15,394 15,200 15,200 15,200 15,200 15,200 395 395 3,282 845 845 27,586 27,586 4506	157,308 852 852 852 88,259 14,374 87,263 9,240 9,240 28,796 28,796 28,796 28,796 28,796 28,796 4,845 417,981		4,497,536 24,349 24,349 2,523,389 2,523,389 410,955 2,494,905 2,494,905 2,494,905 2,494,905 64,779 12,175 64,779 138,516 138,516 11,950,321 11,950,321	
memory metroscale 5/3 6/3 7/3	Rise Gamal Solution Solutite Solution Solution	98,640 5 98,640 5 10,421 5 35,873 5 35,873 5 35,873 5 35,873 5 35,873 5 35,109,583 5 35,1622 5 35,1622 5 35,1622 5 35,1623 5 16,617 5 5 16,622 5 16,437 5 16,437 5 16,437 5 16,437 5 16,437 5 10,349 5 100,349 5 177,237 5 96,677 5 98,667	, 	9,051 49 5 5,078 657 5,078 657 5,078 758 5,078 827 5,021 5 1,083 7 1,130 5 2,279 5 2,010 5 2,279 5 2,010 5 2,010 5 2,148 5 1,1756 5 1,1756 5 1,1756	11,062 60 60 6,207 6,137 6,137 6,137 6,137 6,137 1,011 1,59 1,323 1,122 29,393 29,393 29,393	255 7 7 22 22 22 22 74 115 23 23 23 23 23 23 23 23 23 23 23 23 23	27,437 149 149 15,394 15,394 15,220 1,612 5,023 5,023 5,023 395 74 395 845 845 845 72,903 72,586 845 72,903	157,308 852 852 852 88,259 14,374 9,240 9,240 28,796 28,796 28,796 28,796 28,796 28,796 28,796 28,796 4,845 417,981		4,497,536 24,349 24,349 2,523,389 2,591,169 264,169 2,494,905 2,494,905 2,494,905 2,494,905 64,779 64,779 64,779 64,779 64,779 138,516 1,380 6,891 1,360,321 11,950,321	
Construction 5 Cold	GG0 Low Annuel-Low Winter 5 6,649 5 14,556 5 27,452 G40 Low Annuel-High Winter 5 13,527 5 66,49 5 14,516 5 14,516 5 14,3,184 5 G51 Med Annuel-High Winter 5 10,527 5 66,471 5 69,271 5 92,041 5 97,195 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,184 5 143,185 143,185 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,182 141,132 141,182 141	 35,873 35,873 54,700 54,700 54,700 54,700 54,700 54,700 55,162 55,162 56,23 51,590,634 51,590,634 510,349 510,349 59,667 59,667 	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	 5 5	60 194 6,207 6,137 6,137 6,137 6,137 159 159 179 1,323 341 1,328 29,393 29,393	7 704 22 704 696 696 696 74 115 23 23 23 23 23 23 23 23 23 23 23 23 23	149 15, 394 15, 394 15, 2507 15, 220 15, 220 15, 220 5, 023 5, 023 395 5, 243 395 5, 243 395 845 845 845 845 845 845 845 845 845 84	2,756 852 88,259 88,259 87,263 9,2,263 9,2,265 28,796 28,796 28,796 18,817 18,817 4,845 417,981		4,441,536 78,749 78,791 78,791 2,523,389 410,955 2,444,905 2,444,905 2,444,905 2,444,905 2,444,905 537,986 64,779 64,779 72,589 537,986 537,986 11,950,321 11,950,321 11,950,321 7,53,046	
Control 2 2021 6701 7001 <th< td=""><td>G40 Low Annual-High Winter 5 212,331 5 67,440 5 879,195 5 G40 Low Annual-Ligw Winter 5 34,676 76,127 5 899,271 5 G42 High Annual-Low Winter 5 2,2231 5 899,271 5 99,649 5 90,041 5 G42 High Annual-Low Winter 5 2,2231 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 10,000 5 24,01 5 13,411 5,215 94,163 16,27 5 86,261 8 16,27 5 94,165 16,27 5 86,261 5 14,05 5 14,165 5 14,16</td><td> 332,082 54,700 54,700 54,700 54,700 54,700 54,700 54,700 54,700 54,700 56,62 56,63 56,63 56,67 59,667 59,667 </td><td>0 000000000000000000000000000000000000</td><td><pre>\$ 159 \$ 5,078 \$ 5,078 \$ 5,027 \$ 5,027 \$ 5,027 \$ 5,027 \$ 1,657 \$ 1,657 \$ 1,657 \$ 5,021 \$ 5,027 \$ 5,021 \$ 5,027 \$ 5,021 \$ 5,021\$ \$ 5</pre></td><td>194 6,207 6,207 6,137 6,50 2,025 6,50 1,323 1,79 1,323 1,79 1,79 3,303 29,393 29,393 1,112 29,393</td><td>704 704 7115 714 74 74 74 74 73 33 74 75 73 33 74 75 72 33 72 72 72 72 72 72 72 72 72 72 72 72 72</td><td>15,394 15,394 15,394 15,220 15,220 15,122 3,595 845 74 3,282 3,282 3,282 3,282 3,282 3,282 3,282 3,282 3,282 3,282 3,282 3,586 27,586 27,586 5,07 5,07 5,07 5,07 5,07 5,07 5,07 5,07</td><td>2,755 88,259 87,263 97,263 97,263 98,796 28,796 28,796 28,796 28,796 18,817 4,845 4,845 4,845</td><td></td><td>78,349 78,791 2,523,389 410,955 2,494,905 2,494,905 823,4169 823,4169 823,4169 823,4169 823,4169 537,986 6,891 138,516 137,516</td><td></td></th<>	G40 Low Annual-High Winter 5 212,331 5 67,440 5 879,195 5 G40 Low Annual-Ligw Winter 5 34,676 76,127 5 899,271 5 G42 High Annual-Low Winter 5 2,2231 5 899,271 5 99,649 5 90,041 5 G42 High Annual-Low Winter 5 2,2231 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 92,041 5 10,000 5 24,01 5 13,411 5,215 94,163 16,27 5 86,261 8 16,27 5 94,165 16,27 5 86,261 5 14,05 5 14,165 5 14,16	 332,082 54,700 54,700 54,700 54,700 54,700 54,700 54,700 54,700 54,700 56,62 56,63 56,63 56,67 59,667 59,667 	0 000000000000000000000000000000000000	<pre>\$ 159 \$ 5,078 \$ 5,078 \$ 5,027 \$ 5,027 \$ 5,027 \$ 5,027 \$ 1,657 \$ 1,657 \$ 1,657 \$ 5,021 \$ 5,027 \$ 5,021 \$ 5,027 \$ 5,021 \$ 5,021\$ \$ 5</pre>	194 6,207 6,207 6,137 6,50 2,025 6,50 1,323 1,79 1,323 1,79 1,79 3,303 29,393 29,393 1,112 29,393	704 704 7115 714 74 74 74 74 73 33 74 75 73 33 74 75 72 33 72 72 72 72 72 72 72 72 72 72 72 72 72	15,394 15,394 15,394 15,220 15,220 15,122 3,595 845 74 3,282 3,282 3,282 3,282 3,282 3,282 3,282 3,282 3,282 3,282 3,282 3,586 27,586 27,586 5,07 5,07 5,07 5,07 5,07 5,07 5,07 5,07	2,755 88,259 87,263 97,263 97,263 98,796 28,796 28,796 28,796 28,796 18,817 4,845 4,845 4,845		78,349 78,791 2,523,389 410,955 2,494,905 2,494,905 823,4169 823,4169 823,4169 823,4169 823,4169 537,986 6,891 138,516 137,516	
Matrix for the second	G51 Mod AnnuaHugu Winter 34,678 7,61,27 66,127 5,0411	535,873 535,873 532,080 532,080 55 16,21 55 1,621 55 1,608 5 1,608 5 1,608 5 1,608 5 5,1,608 5 5,1,608 5 5,1,608 5 5,1,608 5 5,1,608 5 5,1,608 5 5,1,608 5 5,1,608 5 5,1,608 5 5,1,608 5 5,1,608 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,1,602 5 5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	 5 5,078 8 27 8 27 5 5,32 5 5,32 1,657 5 5,32 1,657 5 3 1,130 5 1,175 	6,207 1,011 6,137 6,137 6,50 2,025 30 1,59 1,59 1,323 341 1,323 29,393 29,393 29,393	704 696 74 74 74 74 78 33 33 33 33 33 33 33 50 50 50 50 50 50 50 50 50 50 50 50 50	15,394 2,507 15,220 15,220 16,12 74 3,95 3,282 3,282 845 845 27,586 4506 27,586 4506	8,259 14,374 9,240 9,240 28,796 28,796 28,796 2,539 18,817 4,845 417,981		2,523,389 4,025 2,494,905 2,494,905 2,849,905 12,175 12,175 6,891 138,516 138,516 138,516 138,516 7,53 046 7,53 046	
Matrix for the function of the function	G41 Med Annual-High Winter \$ 210,527 \$ 462,164 \$ 61,15 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 819,55 \$ 92,041 \$ 817,445 \$ 1,255 \$ 1,217 \$ 1,257 \$ 26,591 \$ 1,217 \$ 25,591 \$ 1,217 \$ 25,501 \$ 81,744 \$ 1,217 \$ 1,217,45 \$ 1,163,711 \$ 22,231 \$ 1,163,711 \$ 22,231 \$ 1,163,711 \$ 22,51 \$ 26,501 \$ 26,501 \$ 26,501 \$ 8,22,508 \$ 26,201 \$ 8,22,508 \$ 26,201 \$ 8,22,501 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,201 \$ 26,202 \$ 26,201 \$ 26,202	 32,700 32,700 332,082 332,082 55 1621 1622 5622 5622 5622 5662 5662 51,590,634 51,590,634 51,537 5667 58,667 58,667 	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	 827 827 5021 5	1,011 6,137 6,137 2,025 30 179 173 1,323 341 1,323 29,393 29,393 29,393	696 74 150 150 33 39 39 210 220 33 39 220 220 220 220 220 220 220 220 220 22	2,507 15,220 1,612 5,023 5,023 5,023 7,612 8,43 8,45 8,45 72,903 72,586 27,586 4,590	44,245 9,240 9,240 28,796 28,796 28,796 2,559 18,817 18,817 4,845 417,981		2,223,389 2,441,055 2,444,905 2,444,169 12,175 64,775 537,986 64,779 64,779 12,175 537,986 6,891 1,38,516 1,38,516 1,38,516 1,38,516 1,38,516 1,38,516 1,38,516 1,38,516 1,38,516 1,32,1886 6,891 1,350,321 1,350,350,350,350,350,350,350,350,350,350	
Git My have wave 5 0,101 0,203	G22 High Annual-Low Winter 5 22.291 5 90.04.11 5 G42 High Annual-High Winter 5 10.75 5 22.55 5 90.04.11 5 Non-Grandfahreed T40 Low Annual-High Winter 5 10.75 5 22.55 5 90.04.11 5 Non-Grandfahreed T40 Low Annual-High Winter 5 10.75 5 22.55 5 42.415 5 Non-Grandfahreed T40 Low Annual-High Winter 5 10.86 5 13.417 5 2.255 5 42.425 Non-Grandfahreed T42 High Annual-High Winter 5 11.688 5 2.513/14 5 4.163,711 52.2 Non-Grandfahreed T42 High Annual-High Winter 5 11.688 5.256.15 4.163,711 52.5 Non-Grandfahreed T42 High Annual-High Winter 5 10.08.403 5.213/14 4,163,711 52.5 Non-Grandfahreed HLF CLASSES 5 43.664 5 43.65 5 3.355 5 SALES LLF CLASSES 5 3.31.57 5 2.661 5 3.33.555 5 5 <t< td=""><td><pre>332,082 5 332,082 5 5 332,082 5 5 162 5 5 162 5 5 162 5 5 162 5 5 162 5 5 162 5 5 162 5 5 164 3 5 18,437 5 5 18,437 5 5 18,437 5 5 10,349 5 5 10,349 5 5 112,200 5 5 99,667 5 </pre></td><td>~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</td><td>5,021 5,021 5,52 5,53 5,53 5,53 5,53 5,53 1,657 1,255 5,146 5,100 5,100 5,100 5,100 5,100 5,117 5,57 5,5</td><td>6,137 650 2,025 30 159 1,323 1,179 1,323 341 1,233 29,393 29,393 11,122 29,393</td><td>696 74 150 150 150 150 150 150 150 150 150 150</td><td>15,200 1,612 5,023 5,023 3,955 3,282 4,2 845 72,903 27,586 4,586 27,586</td><td>14,207 97,263 97,265 28,796 426 2,266 2,266 2,266 2,266 2,266 2,266 4,241 4,845 417,981</td><td></td><td>2,491,955 2,494,905 2,64,169 823,289 64,779 64,779 72,589 537,986 537,986 537,986 138,516 11,950,321 11,950,321 753,016 753,016</td><td>1 2 2 6</td></t<>	<pre>332,082 5 332,082 5 5 332,082 5 5 162 5 5 162 5 5 162 5 5 162 5 5 162 5 5 162 5 5 162 5 5 164 3 5 18,437 5 5 18,437 5 5 18,437 5 5 10,349 5 5 10,349 5 5 112,200 5 5 99,667 5 </pre>	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5,021 5,021 5,52 5,53 5,53 5,53 5,53 5,53 1,657 1,255 5,146 5,100 5,100 5,100 5,100 5,100 5,117 5,57 5,5	6,137 650 2,025 30 159 1,323 1,179 1,323 341 1,233 29,393 29,393 11,122 29,393	696 74 150 150 150 150 150 150 150 150 150 150	15,200 1,612 5,023 5,023 3,955 3,282 4,2 845 72,903 27,586 4,586 27,586	14,207 97,263 97,265 28,796 426 2,266 2,266 2,266 2,266 2,266 2,266 4,241 4,845 417,981		2,491,955 2,494,905 2,64,169 823,289 64,779 64,779 72,589 537,986 537,986 537,986 138,516 11,950,321 11,950,321 753,016 753,016	1 2 2 6
Goldmannerständen solutionen statistichen solutionen statistichen solutionen	G42 High Annuel-High Winter 69,471 515,508 266,849 32,000 Non-Grandfathreed T50 Low Annuel-High Winter 5,125 5,255 5,424 5,500 5,255 4,242 5,500 5,255 5,500 5,255 5,255 5,255 5,255 5,424 5,500 5,255 5,424 5,500 5,255 5,424 5,500 5,255 5,421 5,550 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,2401 5,1,237 5,2656 5,1,237 5,265,518 5,1,237 5,265,518 5,1,237 5,1,003,313 5,1,003,313 5,1,003,315 5,1,003,315 5,1,003,315 5,1,003,315 5,1,003,313 5,1,003,313 5,1,003,313 5,1,003,313 5,1,003,313 5,1,003,313 5,1,003,313 5,1,033 5,1,033 5,1,035 5,1,033 5,1,033 5,1,035 5,1,033 5,1,035 5,1,033 5,1,035 5,1,033 5,1,035 5,1,033 5,1,035 5,1,033 5,1,035 5,1,033 5,1,035	 5, 162 5, 162 5, 105, 583 5, 105, 583 5, 105, 583 5, 1600 5, 177 5, 1800 5, 1900 5, 1600 5,	" ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<pre>\$ 532 \$ 1657 \$ 1657 \$ 1657 \$ 1083 \$ 1,083 \$ 1,083 \$ 24,049 \$ 24,049 \$ 1,566 \$ 1,756 \$ 1,756 \$ 1,492 \$ 1,492</pre>	650 2,025 30 159 1,79 1,79 1,79 341 29,393 29,393 29,393 11,122 29,393	233 233 150 233 233 233 226 233 226 233 226 233 226 233 227 4	7,612 5,023 5,023 395 395 395 3,282 3,282 845 845 845 845 27,586 27,586	9,203 9,240 28,796 2,596 2,536 18,817 2,539 18,817 4,845 4,845 4,845		2,444,905 264,169 264,169 12,175 12,175 72,589 537,986 6,891 138,516 138,516 138,516 138,516 138,516 13,5175 13,516 13,5175 13,516 13,5175 13,516 13,5175 13,5175 13,5175 13,5175 14,517514,5175 14,51755 14,51755 14,5175555 14,5175555	
Monomenent (1) concentration (1) (2)	Non-Grandfahreed TS0 Low Annual-Low Winter 5 1027 5 22.255 2.200, 49 Non-Grandfahreed T41 Med Annual-Low Winter 5 5,397 5,395 5,395 5,2570 5 Non-Grandfahreed T41 Med Annual-Low Winter 5,6165 5 1,277 5,255 4,242 5 Non-Grandfahreed T41 Med Annual-High Winter 5,6165 5 4,8262 2,570 5 1,277 5 2,411 5,225 2,411 5,225 5,241 5 2,411 5,225 5,241 5,2570 5 1,277 5,2570 5 1,277 5,251 5,171 5,225 5,2510 5 1,277 5,256 5,213,711 5,22 5,256 5,213,711 5,22 5 31,934 5,157 5 31,934 5,156 5 1,277 5,256 5,216,76 5 5,216,76 5 5 5,216,76 5 5,163 5,156 5,156 5,156 5,156 5,156 5,156 5,156 5,156 5,156 5,163<	 109,583 109,583 1,621 8,622 9,662 18,437 8,1590,634 8,1590,634 8,100,334 98,667 98,667 	0 ******	1,657 25 5 1,1657 5 1,130 5 1,083 5 1,083 5 24,049 5 9,100 5 1,756 5 1,756 5 1,756 5 1,824	2,025 30 159 179 1,323 341 341 1,122 29,393 29,393 11,122 1,854 11,368	230 230 2310 2310 2310 2310 2310 2310 23	5,023 7,23 7,44 395 3,443 3,282 3,282 8,45 8,45 8,45 72,903 27,586 4,508	28,240 28,796 2,266 2,539 18,817 241 4,845 417,981		264,169 264,169 12,175 64,779 72,589 537,986 6,891 138,516 138,516 11,950,321 11,950,321 753,016	3 5 7
monomenent (1) to control (1) to contro (1) to contro (1) to control (1) to control (1) to control (1)	Non-Grandiathered Tap Low Minuer 5,466 7,2000 2,5291 Non-Grandiathered Tap Red Amurak-Low Winter 6,125 5,125 5,125 5,241 Non-Grandiathered Tap Red Amurak-Low Winter 6,125 5,125 5,125 5,241 Non-Grandiathered Tap Red Amurak-Low Winter 5,125 5,125 5,125 5,2401 Non-Grandiathered Tap Red Amurak-Low Winter 5,116 8 2,565 5,2401 5,2401 Non-Grandiathered Tap Registential 5,100 5,213,714 5,165,711 5,25 Non-Grandiathered Tap Registential 5,1008,403 5,2213,714 5,165,711 5,25 SALES LLF CLASSES 5,1008,403 5,213,714 5,163,711 5,25 SALES LLF CLASSES 5,1008,403 5,213,714 5,163,711 5,25 Non-Grandiathered LLF CLASSES 5,1008,112 5,137,315 5,133,335 5,1 Non-Grandiathered LLF CLASSES 5,262,65 5,137,35 5,282,676 5,131,335 Non-Grandiathered LLF CLASSES 5,262,65 5,137,31 5,282,676 5,131,335 <t< td=""><td> 5 1,621 5 5 1,608 5 5 1,608 5 9,662 5 5 9,667 5 5 1,590,634 5 7 127,203 5 5 98,667 5 </td><td>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</td><td>25 25 1130 1146 5 1083 5 279 6 279 7 279 7 279 7 279 7 279 7 279 7 279 7 279 7 279 8 279 9 100 5 1,517 5 1,517 5 1,1756 5 1,1756</td><td>30 159 1,179 1,179 1,179 341 341 1,122 29,393 29,393 11,122 1,854 11,122</td><td>530 530 530 530 530 530 530 530 530 530</td><td>74 395 395 395 3282 3282 3282 845 845 227,586 27,586 4508</td><td>20,790 426 2,266 2,539 18,817 2,817 4,845 4,845 417,981</td><td></td><td>823,289 823,289 64,275 64,279 72,589 537,986 6,891 13,516 11,950,321 11,950,321 753 016 753 016</td><td>3 7 4</td></t<>	 5 1,621 5 5 1,608 5 5 1,608 5 9,662 5 5 9,667 5 5 1,590,634 5 7 127,203 5 5 98,667 5 	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	25 25 1130 1146 5 1083 5 279 6 279 7 279 7 279 7 279 7 279 7 279 7 279 7 279 7 279 8 279 9 100 5 1,517 5 1,517 5 1,1756 5 1,1756	30 159 1,179 1,179 1,179 341 341 1,122 29,393 29,393 11,122 1,854 11,122	530 530 530 530 530 530 530 530 530 530	74 395 395 395 3282 3282 3282 845 845 227,586 27,586 4508	20,790 426 2,266 2,539 18,817 2,817 4,845 4,845 417,981		823,289 823,289 64,275 64,279 72,589 537,986 6,891 13,516 11,950,321 11,950,321 753 016 753 016	3 7 4
Constraintend (1) Maximum 5 (1) 5 5 (1)	Non-Grand(athread T5) Med Amuai-High Winter 6,125 5,13,447 5,5591 5,517 5,547 5,5591 5,147 5,5591 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,241 5,243 5,108 5,51 5,123 5,123 5,123 5,123 5,123 5,123 5,123 7,11 5,25 5,245 5,11 5,25 5,245 5,11 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,25 5,26 5,26 5,15 5,11 5,25 5,26 5,26 5,15 5,11 5,25 5,26 5,15 5,11 5,26	 59,662 71,608 917 917 917 917 917 51,590,634 501,881 501,881 501,881 501,881 501,349 501,349 501,634 501,534 501,534 501,534 501,534 <li< td=""><td>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</td><td> \$ 130 \$ 1,130 \$ 24,049 \$ 9,100 \$ 1,517 \$ 1,1756 \$ 1,1924 </td><td>159 179 179 179 17 341 29,393 29,393 11,122 14,368 14,368</td><td>150 22162 2333 22162 2333 22162 2333 22162 2335 22162 2335 2335 2335 2335 2355 2355 2355 23</td><td>395 395 443 42 845 845 72,903 27,586 4 598</td><td>2,266 2,539 18,817 2,817 4,845 4,845 417,981</td><td></td><td>12,175 64,779 72,586 537,986 537,986 537,986 138,516 11,950,321 11,950,321 753,016 753,016</td><td>4 4 333 4 751 8 87 284 2 87 367</td></li<>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	 \$ 130 \$ 1,130 \$ 24,049 \$ 9,100 \$ 1,517 \$ 1,1756 \$ 1,1924 	159 179 179 179 17 341 29,393 29,393 11,122 14,368 14,368	150 22162 2333 22162 2333 22162 2333 22162 2335 22162 2335 2335 2335 2335 2355 2355 2355 23	395 395 443 42 845 845 72,903 27,586 4 598	2,266 2,539 18,817 2,817 4,845 4,845 417,981		12,175 64,779 72,586 537,986 537,986 537,986 138,516 11,950,321 11,950,321 753,016 753,016	4 4 333 4 751 8 87 284 2 87 367
monomenane fit in Anis in the fit in Anis Anis	Non-Grandfathred Tat Med Annual-High Winler 45,397 582 5127 5,401 5 Non-Grandfathred Tat High Annual-High Winler 582 1,277 5,401 5 Non-Grandfathred Tat High Annual-High Winler 51,008,403 5,213,714 5,401 5 TOTAL 51,008,403 5,213,714 5,163 6,265 5,401 5 Residential 5,1008,403 5,213,714 5,163,711 5,236 5,401 5,11 Residential 5,316 5,1008,403 5,213,714 5,163,711 5,236 SALES LIF CLASSES 5,316 5,11 5,137,317 5,268,276 5,11 Non-Grandfathreed LIF CLASSES 5,261 5,137,317 5,268,276 5,11 5,266 5,133,313 5,268,276 5,11 Non-Grandfathreed LIF CLASSES 5,261 5,137,317 5,268,276 5,11 5,266 5,133,335 5,11 5,266 5,133,335 5,11 5,266 5,133,335 5,11 5,266 5,133,335 5,126 5,126,315 5,126 5,126,	 5 71,602 5 7 18,437 5 18,437 5 18,437 5 5 1,590,634 5 5 10,349 5 5 10,349 5 5 12,503 5 98,667 5 	, , , , , , , , , , , , , , , , , , ,	 146 1083 1083 1083 1083 24,049 24,049 1,756 1,756 1,492 1,492 1,492 	179 1,323 17 341 29,393 11,122 14,368 14,368	150 233 531 531 532 532 532 532 532 532 532 532 532 532	443 3,282 42 845 845 72,903 4 593	2,539 2,539 18,817 241 4,845 417,981		44,779 537,589 537,589 6,891 138,516 11,950,321 4,521,886 4,521,886	4 4 4 4 4 4 4 4 4 4 4 7 5 1 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 6 7 5 1 8 8 3 6 7 8 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1
mononsententered R1 May Americanoma 3	Mon-Grandfahrered T22 High Annuel-Low Winler 582 1,277 2,401 2,221 7,11 2,221 7,11 2,221 2,401 2,401 2,401 2,401 2,401 2,401 2,401 2,401 2,401 2,401 2,221 2,401	 71,000 51,590,634 51,590,634 501,881 501,881 501,881 5170,349 5170,349 5170,349 598,667 598,667 	, , , , , , , , , , , , , , , , , , ,	 5 1,083 5 2,033 5 2,049 5 1,1756 5 1,1756 5 1,184 5 1,184 	1,323 17 341 29,393 11,122 11,122 14,368	150 335 530 530 530 530 530 530 530 530 5	3,282 42 845 72,903 27,586 4 598	18,817 241 4,845 417,981		537,986 5,891 6,891 138,516 11,950,321 4,521,886 753 916	47 333 88 47 284 284 367
	TOTAL 5 1,688 5 5,559 48,262 5 2 TOTAL 5 1,008,403 5,2/13/714 5,1/13,7/11 5,2/23 2 1 1 1 2 2 2 3 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	 \$ 18,437 \$ 1,590,634 \$ 601,881 \$ 100,349 \$ 712,537 \$ 98,667 \$ 98,667 	•••••••	 24,049 24,049 24,049 1,756 1,756 1,492 1,494 	17 341 29,393 11,122 14,358 14,358	335 335 210 2262 230 2262 230 2262 335	42 845 72,903 27,586 4 599	241 4,845 417,981		6,891 138,516 11,950,321 4,521,886 753 016	3 5 4
	TOTAL \$1,008,403 \$2,213,714 \$4,163,711 \$2,23 Residential \$341,570 \$ 837,648 \$1,575,508 \$ 86 SALES LLF CLASSES \$341,570 \$ 837,648 \$1,575,508 \$ 86 SALES LLF CLASSES \$341,570 \$ 837,648 \$1,575,508 \$ 86 Non-Grandfathered HLF CLASSES \$ 342,300 \$1002,112 \$ 2,053,315 \$ 111 Non-Grandfathered HLF CLASSES \$ 7,734 \$ 16,978 \$ 133,44 \$ 14,914 Non-Grandfathered HLF CLASSES \$ 7,734 \$ 16,978 \$ 13,934 \$ 1,91027 \$ 81 Non-Grandfathered LLF CLASSES \$ 2,5351 \$ 137,317 \$ 2,562,75 \$ 1,541,027 \$ 81 Non-Grandfathered LLF CLASSES \$ 2,213,714 \$ 1,610,27 \$ 81 \$ 2,662,76 \$ 1,41 Rea dama \$ 2,353 \$ 847,155 \$ 1,611,07 \$ 84 \$ 1,610,77 \$ 44 Rea dama \$ 2,561 \$ 2,561 \$ 2,561 \$ 2,5167 \$ 4,401 \$ 5,2325 \$ 4,401 \$ 5,264 \$ 3,2325 \$ 4,401 \$ 4,4	\$1,590,634 \$ \$601,881 \$ 7100,349 \$ 712,537 \$ \$98,667 \$	• • • • • • •	\$ 24.049 \$ 9,100 \$ 1,517 1 ,715 \$ 1,492	29,393 29,393 11,122 14,368 14,368	335 335 335 335 335 335 335 335 335 335	845 72,903 27,586 4 599	4,845 417,981		138,516 11,950,321 4,521,886 753 016	
Relation Statis 1 <	Residential 381.570 \$ 837,648 \$ 1,575,508 \$ 82 SALES HLF CLASSES \$ 381,570 \$ 837,648 \$ 1,575,508 \$ 87 SALES LLF CLASSES \$ 391,570 \$ 837,648 \$ 1,575,508 \$ 87 Non-Grandfathered HLF CLASSES \$ 262,578 \$ 1,937,317 \$ 2,635,315 \$ 1,11 Non-Grandfathered HLF CLASSES \$ 7,734 \$ 16,978 \$ 31,934 \$ 1,137,317 \$ 2,562,776 \$ 1,137,317 \$ 2,562,776 \$ 1,137,317 \$ 2,562,776 \$ 1,137,317 \$ 2,562,776 \$ 1,137,317 \$ 2,562,776 \$ 1,137,317 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 1,137 \$ 2,562,776 \$ 2,1267 \$ 2	\$1,590,634 \$ \$601,881 \$ \$601,881 \$ \$100,349 \$ \$177,537 \$ \$12,200 \$ \$98,667 \$ }	~ ~~~~	 \$ 24,049 \$ 9,100 \$ 11,756 \$ 11,756 \$ 1,492 	29,393 11,122 1,854 14,368	335 262 210 210	72,903 27,586 4 599	417,981		11,950,321 4,521,886 753 016	
Statistication 5 31,57 5 27,60 5 1,70 <	Residential Sal1,570 \$ 837,648 \$ 1,575,508 \$ 88 SALES HLF CLASSES \$ 63,618 \$ 1,99,656 \$ 282,678 \$ 1,575,508 \$ 1,575,508 \$ 1,575,508 \$ 1,575,508 \$ 1,575,508 \$ 1,575,508 \$ 1,575,508 \$ 1,575,508 \$ 1,575,508 \$ 1,581,125 \$ 2,035,315 \$ 1,175 \$ 2,193,317 \$ 2,581,317 \$ 2,581,317 \$ 2,581,317 \$ 2,58,276 \$ 1,17 \$ 2,033,315 \$ 1,581,027 \$ 81 \$ 1,581,027 \$ 81 \$ 1,581,027 \$ 81 \$ 1,581,027 \$ 81 \$ 2,58,216 \$ 1,581,027 \$ 81 \$ 2,58,216 \$ 1,581,027 \$ 81 \$ 2,58,216 \$ 1,581,027 \$ 81 \$ 2,58,216 \$ 1,581,027 \$ 81 \$ 2,58,216 \$ 1,581,027 \$ 81 \$ 2,58,216 \$ 1,581,027 \$ 81 \$ 2,58,216 \$ 1,51,027 \$ 81 \$ 2,58,216 \$ 1,581,027 \$ 81 \$ 2,58,216 \$ 1,581,027 \$ 81 \$ 2,58,216 \$ 1,581,027 \$ 81 \$ 2,58,216 \$ 1,581,027 \$ 81 \$ 2,56,215 \$ 2,56,215 \$ 2,56,215 \$ 2,56,215 \$ 2,56,215 \$	\$ 601,881 \$ \$ 100,349 \$ \$ 777,537 \$ \$ 12,200 \$ \$ 98,667 \$	~~~~~~~~~	\$ 9,100 \$ 11,517 \$ 11,756 \$ 1492	11,122 1,854 14,368	262 630 630	27,586	102 214		11,950,321 4,521,886 753 016	
SALES IF CASSES 5 (3):0 (1):2	SALES ILF CLASSES SALES ILF CLASSES SALES ILF CLASSES Non-Grandfathrered ILF CLASSES Non-Grandfathrered ILF CLASSES Non-Grandfathrered ILF CLASSES Non-Grandfathrered ILF CLASSES S2,551 \$ 137,317 \$ 268,216 \$ 1, 137,317 \$ 268,216 \$ 1, 268,216 \$ 1, 268,1027 \$ 81 2,833 \$ 5,294 \$ 1,501,027 \$ 81 2,833 \$ 5,294 \$ 1,501,027 \$ 81 2,833 \$ 5,294 \$ 1,501,027 \$ 81 2,501 \$ 2,0505 \$ 33,355 \$ 2, 2,501 \$ 1,71,572 \$ 88,31,23 \$ 4, 2,500 \$ 80,3125 \$ 1,501,027 \$ 81 2,500 \$ 80,3125 \$ 1,501,027 \$ 81 2,500 \$ 80,3125 \$ 4,501 \$ 2,500 \$ 5,5	\$ 601,881 \$ \$ 777,537 \$ \$ 12,200 \$ \$ 98,667 \$	••••	 9,100 1,517 1,756 11,756 184 1,492 	11,122 1,854 14,368		27,586 4 500			4	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	SALES LLF CLASSES \$ 492,930 \$ 1,02,112 \$ 2,035,315 \$ 1,11 Non-Grandfathered LLF CLASSES \$ 7,734 \$ 1,6978 \$ 31,934 \$ 1,13 Non-Grandfathered LLF CLASSES \$ 7,734 \$ 1,6978 \$ 2,035,315 \$ 1,11 Non-Grandfathered LLF CLASSES \$ 7,734 \$ 1,6978 \$ 2,035,315 \$ 1,11 TOTAL CAPACITY \$ 82,551 \$ 137,317 \$ 258,276 \$ 1,6 TOTAL CAPACITY \$ 33,553 \$ 847,155 \$ 1,581,027 \$ 81 Rea General \$ 33,355 \$ 2,938 \$ 5,294 \$ 3,3355 \$ 4,8 Rea General \$ 2,0561 \$ 2,0,505 \$ 33,355 \$ 4,7 \$ 4,7 \$ 4,8 \$ 4,7 \$ 4,7 \$ 4,8 \$ 4,7 \$ 4,7 \$ 4,8 \$ 4,7 \$ 4,7 \$ 4,8 \$ 4,7 \$ 4,7 \$ 4,8 \$ 4,7 \$ 5,26 \$ 4,7 \$ 5,26 \$ 4,7 \$ 5,26 \$ 4,7 \$ 5,26 \$ 4,7 \$ 5,26 \$ 4,7 \$ 5,26 \$ 4,7 \$ 5,26 \$ 4,7 \$ 5,26 \$ 4,7 \$ 5,26 \$ 4,7 \$ 5,26 \$ 5,26 \$ 5,26 \$ 5,26 \$ 5,26 \$ 5	\$ 710,349 \$ \$ 777,537 \$ \$ 12,200 \$ \$ 98,667 \$	~~~~	\$ 1,517 \$ 11,756 \$ 184 \$ 1,492	1,854 14,368		4 599	158 160	Crc 300 M	4	
Non-contrantement IL CLASES 5 7/74 5 5 7/74 5 5 7/74 5 5 7/74 5 5 7/74 5 5 7/74 5 5 7/74 5 5 7	Non-Grandfathered HLF CLASSES 7,734 5 16,978 5 31,934 5 Non-Grandfathered LLF CLASSES 5 2551 5 137,317 5 562,276 5 14 TOTAL CAPACITY 8 5 5 31,334 5 15,811,027 8 1 5 15,811,027 8 1 5 15,811,027 8 1 5 15,811,027 8 1 3 33,535 5 29 8 17,1155 5 15,811,027 8 1 3 3 3 5 29 5 29 5 29 5 29 5 29 5 1 3 3 3 5 5 29 5 2 4 7 1 5 1 3 3 5 5 5 2 4 7 1 3 3 5 5 5 5 5 4 7 1 3 3	\$ 12,200 \$ \$ 98,667 \$	~ ~ ~	\$ 11,756 \$ 184 \$ 1,492	14,368			26,369	525,000, 1		
Torrenomment of the constraint 2001 113/317 2.83/215 113/317 2.83/215 113/317 2.83/215 113/317 2.83/215 113/317 2.83/215 113/317 2.83/215 113/317 2.83/215 113/317 2.83/215 113/317 2.83/215 113/317 2.83/215 113/215 2.93/215 113/215 2.93/215 113/215 2.93/215 113/215 2.93/215 2.13/215 2.93/215 2.13/215 2.93/215 2.13/215 2.93/215 2.13/215 2.93/215 2.13/215 2.93/215 2.93/215 2.93/215 2.94/155 2.93/215 2.94/155 2.93/215 2.94/155 2.93/215 2.94/155 2.93/215 2.94/155 2.93/215 2.94/155 2.93/215 2.94/155 2.93/215 2.94/155	TOTAL CAPACITY 52,551 5137,317 258,276 51 TOTAL CAPACITY Res Heat 393,539 847,155 5,594 91,027 81 Res General 5,294 91,027 81 92,66 5 93,555 5 84 61,027 81 Res General 5,294 91,065 5,294 93,555 5 33,355 5 84 737 5 83,123 5 4 84 7 155 5 15,81,027 81 33,355 5 23,335 5 23,335 5 4 7 15 6 23,335 5 4 7 15 5 23,335 5 4 2 4 7 5 2 5 5 2 4 7 5 5 2 4 7 4 7 4 7 4 7 4 7 4 7 4 6 3 4 6 4 4	\$ 98,667 \$	• •	\$ 1,492			35,637	204.318	6.209.031	L.	
Total Solution Solution <t< td=""><td>TOTAL CAPACITY Solution Solution</td><td></td><td>•</td><td>432</td><td>077</td><td></td><td>559</td><td>3,206</td><td>97,421</td><td>)</td><td></td></t<>	TOTAL CAPACITY Solution		•	432	077		559	3,206	97,421)	
TOTAL CAPACITY Total and anomality in the state of the s	TOTAL CAPACITY 5 393,539 847,155 5,581,027 81 Rea General GS0 Low Annuel-Low Winter 5 393,539 847,155 5,581,027 81 GS0 Low Annuel-Low Winter 5 2,838 5,294 9,266 5 GS0 Low Annuel-Low Winter 5 12,561 5,294 9,266 5 G41 Med Annuel-Low Winter 5 216,664 5 130,325 5 433,325 5 433,325 5 433,325 5 433,325 5 433,325 5 433,325 5 433,325 5 433,325 5 433,325 5 433,325 5 4401 5 4401 5 4401 5 4401 5 4401 5 4401 5 4401 5 4401 5 4401 5 4401 5 4401 5 4401 5 4401 5 4401 5 4401 5 4401 5 5 5 5 56,756			-	1,823		4,522		910		
Review 33.5.59 6 47.155 5 15810.5 5 4.613 5 2.203 5 15.72 5 4.931.05 5 4.931.05 5 4.931.05 5 4.931.05 5 4.931.05 5 4.931.05 5 4.931.05 5 4.931.05 5 4.931.05 5 4.931.05 5 4.931.05 5 9.017 5 5.007 5 9.007	Res Heat 5 393,539 5 47,155 5,1581,027 8 Res General 5,294 5,295 5,294 5,295 5,265 5,205 5,33,355 5,25 5,226 5,226 5,33,1355 5,41 4,41 3,41 3,72 5,44 4,417 5,41 5,51 5,22,51 5,131 5,22,21 5,11 5,11 5,131 5,23,21 5,14 5,131 5,131 5,131 5,131 5,131 5,131 5,131 5,131 5,131 5,131 5,131										
And commute Constraint Constraint <thconstraint< th=""> Constraint Constra</thconstraint<>	Real General Golo Low Annual-Low Winter Current Solo Low Annual-Low Winter Solo Solo Solo Solo Solo Solo Solo Solo										
Gold Normatican Nume 1/200 3/200 5/211 5/121 5/203 7/204 5/203 7/204 5/203 7/204 7/203 </td <td>Gol Low Annual-Low Winter 2,501 2,0505 3,355 3,400 Got Low Annual-High Winter 5,1561 2,0,505 3,355 3,355 5 Got Low Annual-High Winter 5,1661 5,0,505 3,355 5 3,355 5 G37 Med Annual-Low Winter 5,1661 5,477 5,883,123 5,4407 5,41 G37 Med Annual-Low Winter 5,216,615 5,617 5,617 5,617 5,47306 5,936,95 5,61 5,47306 5,936,95 5,61 5,47,306 5,936,95 5,61 5,47306 5,936,95 5,61 5,2,267 5,936,95 5,61 5,2,267 5,95,990 5,74,407 5,41 5,401 5,41 5,401 5,401 5,401 5,41 5,401 5,51 5,61 5,2,267 5,363,95 5,61 5,2,267 5,363,95 5,61 5,2,267 5,363,95 5,61 5,2,267 5,54,12 5,61 5,2,267 5,340 5,54 5,561 5,61 5,61 5,2,267 5,61,23 5,61 5,54<!--</td--><td>\$ 612,656 \$</td><td>69</td><td>\$ 24.643</td><td></td><td>-</td><td>40 505</td><td>000 111</td><td></td><td></td><td></td></td>	Gol Low Annual-Low Winter 2,501 2,0505 3,355 3,400 Got Low Annual-High Winter 5,1561 2,0,505 3,355 3,355 5 Got Low Annual-High Winter 5,1661 5,0,505 3,355 5 3,355 5 G37 Med Annual-Low Winter 5,1661 5,477 5,883,123 5,4407 5,41 G37 Med Annual-Low Winter 5,216,615 5,617 5,617 5,617 5,47306 5,936,95 5,61 5,47306 5,936,95 5,61 5,47,306 5,936,95 5,61 5,47306 5,936,95 5,61 5,2,267 5,936,95 5,61 5,2,267 5,95,990 5,74,407 5,41 5,401 5,41 5,401 5,401 5,401 5,41 5,401 5,51 5,61 5,2,267 5,363,95 5,61 5,2,267 5,363,95 5,61 5,2,267 5,363,95 5,61 5,2,267 5,54,12 5,61 5,2,267 5,340 5,54 5,561 5,61 5,61 5,2,267 5,61,23 5,61 5,54 </td <td>\$ 612,656 \$</td> <td>69</td> <td>\$ 24.643</td> <td></td> <td>-</td> <td>40 505</td> <td>000 111</td> <td></td> <td></td> <td></td>	\$ 612,656 \$	69	\$ 24.643		-	40 505	000 111			
Gold unknume 216,861 471,77 6,731 5,131 5,135 5,131 5,135 5,135 5,135 5,136 5,1316 5,136 5,136	G4 Low Mnual-High Winter 5 216,864 \$ 71,372 8 83,123 4 G51 Med Annual-Low Winter 5 24,781 \$ 86,226 533,272 \$ G41 Med Annual-Low Winter 5 215,671 \$ 47,305 \$ 813,407 \$ 48 G42 High Annual-Low Winter 5 215,671 \$ 47,305 \$ 814,407 \$ 48 G42 High Annual-Low Winter 5 215,671 \$ 49,306 \$ 324,242 \$ 44,107 \$ Non-Giandiathered T30 Low Annual-Low Winter 7 1,187 \$ 2,415 \$ 44,015 \$ Non-Giandiathered T30 Low Annual-Low Winter 7,187 \$ 2,415 \$ 4,417 \$ 12,131 \$ 2,2921 \$ 16,9522 \$ 16,9522 \$ 16,9522 \$ 16,9522 \$ 16,9522 \$ 16,9522 \$ 16,913 \$ 16,916 \$ 16,916 \$ 16,916 </td <td>\$ 4,024</td> <td>ŝ</td> <td>\$ 920</td> <td>855</td> <td></td> <td>060,24</td> <td>1/1,000</td> <td>4,953,160</td> <td>4</td> <td>.,</td>	\$ 4,024	ŝ	\$ 920	855		060,24	1/1,000	4,953,160	4	.,
Gi Mandalayawina 5 44,761 5 64,735 5 71,605 5 71,605 5 71,605 5 71,605 7<	Soft Med Annuel-Low Winter 5 44,781 5 65,226 5 53,272 5 G41 Med Annuel-High Winter 5 215,671 5 47,306 5 74,407 5 46,725 5 53,272 5 46,725 5 53,272 5 46,725 5 53,305 5 46,707 5 46,705 5 95,309 5 5 46,725 5 153,272 5 410 5 5 513 5 52921 5 5 5 513 5 52921 5 5 5 5 5 5 5	5 16,396 5	\$	\$ 6,731	6,188	615	6 871	8 704	000'00		
35 3408 516181 51715 561817 51715 561817 57151 57151 57151 57151 57151 57151 57151 57151 57151 57571 57151 57571 57151 57571 57151 57571 57151 57571 57151 57571 57571 57151 57571 57151 57151 57151 57571 57571 57151 57151 57151 57151 57151 57151 57151 57571 57571 57151 57151 57151 5755711 571512 571512 571517 571517 571525	G32 High AnnuaHigh Winter 5 215,671 \$ 467,306 \$ 874,407 \$ 474,607 G32 High AnnuaHigh Winter 5 25,624 \$ 52,267 \$ 95,369 \$ 57,407 \$ 4401 \$ 4607 \$ 466 \$ 56	5 239,804 5	\$	\$ 9,451	10,195		19.646	97.286	100,934	0	
with matchew Winer 5 5 5 5 5 5 7 5 5 5 7 5 5 7 5 5 7 5 5 7 5 7 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 6 8 7 10 5 10 10 10 10 <td>932. rgn/muail-tow Winter 5 25,624 5 52,267 5 95,395 5 64.24 High Annual-Low Winter 7,637 5 95,395 5 16 Non-Giand/dithered T3D Low Annual-Low Winter 7,187 5 15,909 5 294,242 5 16 Non-Giand/dithered T40 Low Annual-Low Winter 1,187 2,415 5 4401 5 Non-Giand/dithered T40 Low Annual-Low Winter 5 1,187 2,415 5 2,931 5 Non-Giand/dithered T40 Low Annual-Low Winter 5 7,818 5 12,351 2,6974 5 Non-Giand/dithered T41 Med Annual-Low Winter 7,718 16,1738 189,5522 5 1 Non-Giand/dithered T2 High Annual-Low Winter 9,76 1,696 2,881 5 1 Non-Giand/dithered T2 High Annual-Low Winter 1,2,798 2,6,769 5 49,370 5 1</td> <td>A 04''AQ A</td> <td>69</td> <td>\$ 12,060</td> <td>11,256</td> <td></td> <td>13.428</td> <td>24 717</td> <td>110,001,2</td> <td>N</td> <td>-</td>	932. rgn/muail-tow Winter 5 25,624 5 52,267 5 95,395 5 64.24 High Annual-Low Winter 7,637 5 95,395 5 16 Non-Giand/dithered T3D Low Annual-Low Winter 7,187 5 15,909 5 294,242 5 16 Non-Giand/dithered T40 Low Annual-Low Winter 1,187 2,415 5 4401 5 Non-Giand/dithered T40 Low Annual-Low Winter 5 1,187 2,415 5 2,931 5 Non-Giand/dithered T40 Low Annual-Low Winter 5 7,818 5 12,351 2,6974 5 Non-Giand/dithered T41 Med Annual-Low Winter 7,718 16,1738 189,5522 5 1 Non-Giand/dithered T2 High Annual-Low Winter 9,76 1,696 2,881 5 1 Non-Giand/dithered T2 High Annual-Low Winter 1,2,798 2,6,769 5 49,370 5 1	A 04''AQ A	69	\$ 12,060	11,256		13.428	24 717	110,001,2	N	-
Torrest Torrest <t< td=""><td>Totak Totak <th< td=""><td>¢ 077'/00 ¢</td><td>به</td><td>\$ 10,740</td><td>10,772</td><td></td><td>20,781</td><td>92.529</td><td>2 715 160</td><td>c</td><td></td></th<></td></t<>	Totak Totak <th< td=""><td>¢ 077'/00 ¢</td><td>به</td><td>\$ 10,740</td><td>10,772</td><td></td><td>20,781</td><td>92.529</td><td>2 715 160</td><td>c</td><td></td></th<>	¢ 077'/00 ¢	به	\$ 10,740	10,772		20,781	92.529	2 715 160	c	
Monocardialitiered To Low Annuel-Hip, Winter 1,187 2,415	ron-Gandiathered T30 Low Annuel-Low Winter 5 1, 187 \$ 2, 415 \$ 4, 401 \$ Non-Grandiathered T40 Low Annuel-High Writer 5 5, 818 \$ 12, 351 \$ 22, 921 \$ 7 Non-Grandiathered T41 Med Annuel-High Writer \$ 7, 810 \$ 15, 131 \$ 26, 974 \$ 100 - Grandiathered T41 Med Annuel-Low Writer \$ 7, 410 \$ 16, 131 \$ 26, 974 \$ 100 - Grandiathered T42 High Annuel-Low Writer \$ 12, 798 \$ 2, 6, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-Low Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-Low Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Annuel-High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 5 Non-Grandiathered T42 High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 8 Non-Grandiathered T42 High Writer \$ 12, 798 \$ 26, 769 \$ 49, 370 \$ 8 Non-Grandiathered T42 High Writer \$ 12, 798 \$ 12, 79	00,4430	A (\$ 4,237	3,706		5.214	12,652	321 862	4	
Mon-Grandstathmed Ti ubu Annual-High Winder 5 5 1 5 1 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 7 5 6 8 5 7 1 5 5 5 7 1 5	Non-Granutamened 140 Low Annuel-High Winter 5, 5, 818 5, 12, 351 2, 22, 921 5 Non-Grandiathreed T51 Med Annuel-Winter 5, 7, 810 5, 13, 13 5, 26, 974 5 Non-Grandiathreed T51 Med Annuel-How Winter 5, 7, 130 5, 13, 13 5, 26, 974 5 Non-Grandiathreed T52 High Annuel-Low Winter 5, 47, 478 5, 10, 17, 38 189, 522 5 1 Non-Grandiathreed T52 High Annuel-Low Winter 5, 976 5, 1696 5, 28, 18 5 26, 753 5 Non-Grandiathreed T42 High Annuel-High Winter 5, 12, 798 5, 26, 769 49, 370 5	1 780	<i>А</i> (\$ 3,567	9,533		8,337	35,006	946.812		
Amontantination 5 7,810 5 15,113 5 5,510 5 1,470 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 66,885 5 73,170 5 76,170 5 76,170 5 76,170 5 76,170 5 76,170 5 76,170 5 76,170 5 76,170 5 76,170 5 76,170 5 76,170 5 76,170 5 76,170 76,170 76,170 76,170 76,170 <td>Among contractive of the second structure s 7,810 \$ 15,131 \$ 26,974 \$ Non-Grandithread T1 Med Amuel-Low Winter \$ 7,810 \$ 101,738 \$ 189,522 \$ 1 Non-Grandithread T22 High Amuel-Low Winter \$ 976 \$ 1,696 \$ 2,881 \$ Non-Grandithread T22 High Amuel-High Winter \$ 12,798 \$ 26,769 \$ 49,370 \$</td> <td>• •</td> <td>А 6</td> <td>\$ 202</td> <td>190</td> <td></td> <td>247</td> <td>589</td> <td>14,919</td> <td></td> <td></td>	Among contractive of the second structure s 7,810 \$ 15,131 \$ 26,974 \$ Non-Grandithread T1 Med Amuel-Low Winter \$ 7,810 \$ 101,738 \$ 189,522 \$ 1 Non-Grandithread T22 High Amuel-Low Winter \$ 976 \$ 1,696 \$ 2,881 \$ Non-Grandithread T22 High Amuel-High Winter \$ 12,798 \$ 26,769 \$ 49,370 \$	• •	А 6	\$ 202	190		247	589	14,919		
Mon-Granditationed T2 High Annuel-Pign Writer 5 1/71 5 2/264 5 4/264 97/914 5 82/697 5 Mon-Granditationed T2 High Annuel-Pign Writer 5 1/206 5 3/345 5 1/371 5 1/371 5 1/371 5 2/345 5 97/61 5 97/62 5 5/346 5 95/67 5 5/346 5 97/914 5 82/697 5 <	Mon-Granditationed 14 Might Annual-High Winter 47,478 5 101,738 5 189,522 5 10 Non-Granditathered T22 High Annual-Low Winter 976 \$ 1,696 \$ 2,881 \$ Non-Granditathered T42 High Annual-Low Winter \$ 12,798 \$ 26,769 \$ 49,370 \$ 7	64	- ~		516		775	2,625	73,170		
Non-Grandtathered T2 High Annual-Hon Writer 976 1,666 2,811 1,273 5,331 5,532 5,532 5,532 5,532 5,532 5,532 5,532 5,532 5,532 5,532 5,532 5,532 5,532 5,532 5,532 5,536 5,536 5,466 5,537 5,556 5,533 5,536 5,1466 5,966 5,967 5,967 5,967 5,967 5,967 5,967 5,966 5,966 5,967 5,966 5,966 5,967 5,176 5,1667 5,166 5,966 5,961 5,1667 5,1667 5,1667 5,1667 5,1667 5,1667 5,171 5,1710 5,171 5,1710 5,1710 5,1170 5,166 5,133 5,1666 5,1666 5,1667 5,1667 5,1667 5,1667 5,1667 5,1170 5,1170 5,1166 5,1131 5,120,133 5,140,051 5,1140,0513 5,113 5,1332 5,1666 5,1666 5,1667 5,1130 5,1130 5,1130 5,1130 5,1130 5,1130 5,1130 5,1130 5,1130 5,11333 5,1130 5,1130	Non-Granditathered 142 High Annual-Low Winter \$ 976 \$ 1,696 \$ 2,881 \$ Non-Granditathered 142 High Annual-High Winter \$ 12,798 \$ 26,769 \$ 49,370 \$ 2	69	• •		1,887		2,264	4,264	97,914		
TOTAL 12,798 26,769 49,370 27,497 51,056 51,056 55,051	2 2 26,769 \$ 49,370 \$ 2	• •	* 578	195,0 4	3,434		5,532	20,948	597,622		
TOTAL \$1,064,822 \$2,270,133 \$4,220,131 \$2,333,123 \$1,647,054 \$7,33,575 \$2,0459 \$8,813 \$5,913 \$1,60,672 \$1,45,170 \$ Residential \$3,963,785 \$2,270,133 \$4,220,131 \$2,333,123 \$1,647,054 \$7,735,575 \$2,60,459 \$8,0,469 \$8,813 \$5,961 \$1,60,672 \$1,4400 \$5,1337,90,555 \$1,238,055 \$1,228,837 \$1,00 Residential \$5,965 \$1,590,724 \$8,7561 \$6,16660 \$2,785,591 \$2,23,128 \$2,6137 \$1,6576 \$4,7400 \$1,379,055 \$1,228,837 \$1,00 SALES HF CLASSES \$8,2966 \$1,590,75 \$1,290,232 \$87,655 \$1,230 \$4,600,53 \$3,310 \$3,312 \$3,3208 \$2,31,75 \$1,6578 \$4,6106,53 \$3,310 \$3,312 \$3,3208 \$2,1,150 \$2,1,1667 \$4,6106,53 \$3,310 \$3,312,53 \$3,3208 \$2,1,350 \$4,6106,53 \$3,310 \$3,320 \$4,610,653 \$3,330 \$4,610,653 \$3,310 \$3,320 \$4,610,653 \$3,310 \$3,320 \$4,610,653 \$3,310 \$5,5513 \$4,610,65<		\$	190 \$	4 4 0 7 4 4 0 2	533		592				
Priver, 0zz, 0zz/0,133 \$ 4,220,131 \$ 2,333,123 \$ 1647,054 \$ 753,575 \$ 260,459 \$ 80,469 \$ 85,813 \$ 59,755 \$ 174,400 \$ 13,379,055 \$ 1,2288,037 \$ 1,00 Residential \$ 396,378 \$ 852,449 \$ 1,590,294 \$ 876,261 \$ 616,680 \$ 278,591 \$ 92,817 \$ 25,553 \$ 26,137 \$ 16,578 \$ 4,3592 \$ 174,400 \$ 13,379,055 \$ 1,00 \$ 1	TOTAL		•	- •			2,045	ŝ			
Heademain \$ 396,378 \$ 852,449 \$ 1,580,294 \$ 876,261 \$ 616,680 \$ 278,591 \$ 22,817 \$ 25,563 \$ 26,137 \$ 16,578 \$ 43,592 \$ 173,320 \$ 4,988,660 \$ 4,610,653 \$ 5,1150 \$ 21,667 \$ 25,513 \$ 4,6,089 \$ 1,040,613 \$ 869,998 13,040,613 \$ 869,938 13,040,613<	# 1,004,022 \$ 2,2/0,133 \$ 4,220,131	\$ 1,647,054	64	\$ 80,469			129 323	000 474			
ALES HI CLASSES \$ 82,966 \$ 158,997 \$ 200,097 \$ 100,000 \$ 20,000 \$ 20,000 \$ 20,000 \$ 25,653 \$ 26,137 \$ 16,578 \$ 43,592 \$ 173,320 \$ 4,986,660 \$ 4,610,653 \$ 5,000 \$ 5,000 \$ 15,000 \$ 1,000,613 \$ 889,898 13% \$ SALES HI CLASSES \$ 5,094,11 \$ 1,098,587 \$ 2,051,771 \$ 1,129,352 \$ 719,686 \$ 6,3,312 \$ 3,3,288 \$ 2,3,228 \$ 21,150 \$ 21,667 \$ 25,513 \$ 46,089 \$ 1,040,613 \$ 889,898 13% \$ Non-Granditureed HIE CLASSES \$ 9,974 \$ 19,242 \$ 3,4256 \$ 19,810 \$ 3,712 \$ 3,3,228 \$ 2,3,150 \$ 2,5,513 \$ 46,089 \$ 1,040,613 \$ 889,898 13% \$ Non-Granditureed HIE CLASSES \$ 9,974 \$ 19,242 \$ 3,4256 \$ 19,810 \$ 14,469 \$ 7,637 \$ 3,496 \$ 2,3,703 \$ 2,5,113 \$ 48,764 \$ 2,1982 \$ 6,392,489 \$ 5,940,383 87% \$ Non-Granditureed LIE CLASSES \$ 6,6094 \$ 140,688 \$ 2,61,813 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 2,514 \$ 3,103 \$ 5,515 \$ 158,82 \$ 158,88 \$ 5,940,383 87% \$ 100-Granditureed LIE CLASSES \$ 6,6094 \$ 140,688 \$ 261,813 \$ 144,760 \$ 102,208 \$ 4,6,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 2,514 \$ 3,103 \$ 5,515 \$ 158,82 \$ 158,88 \$ 5,940,383 87% \$ 100-Granditureed LIE CLASSES \$ 6,5094 \$ 140,688 \$ 261,813 \$ 142,760 \$ 102,208 \$ 4,6,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 5,415 \$ 3,3103 \$ 5,515 \$ 158,82 \$ 153,88 \$ 5,940,383 87% \$ 100-Granditureed LIE CLASSES \$ 0,500 \$ 10,177 \$ 1,203,383 87% \$ 15,910 \$ 100,051 \$ 144,760 \$ 102,208 \$ 4,6,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,516 \$ 2,554 \$ 0,446 \$ 176,85 \$ 156,82 \$ 156,82 \$ 156,82 \$ 156,82 \$ 156,82 \$ 156,82 \$ 156,80 \$ 156,80 \$ 156,80 \$ 156,80 \$ 156,80 \$ 156,80 \$ 156,80 \$ 156,80 \$ 156,80 \$ 156,80 \$ 156,80 \$ 156,80 \$ 156,80 \$ 156,80 \$ 166,94 \$ 166,80 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 5,515 \$ 8,351 \$ 2,554 \$ 0,446 \$ 176,80 \$ 102,208 \$ 16,391 \$ 5,415 \$ 5,415 \$ 5,515 \$ 2,554 \$ 0,446 \$ 156,80 \$ 100,80 \$ 10	Residential \$ 396,378 \$ 852,449 \$ 1590,204 \$						030,041	004'+/+		12,288,837	-
Non-Grandfurburged HE CLASSES \$ 509.411 \$1,129.332 \$ 744,010 \$ 00,512 \$ 23,208 \$ 23,208 \$ 21,607 \$ 25,513 \$ 46,089 \$ 1,000,613 \$ 886,998 13% \$ Non-Grandfurburged HE CLASSES \$ 9,974 \$ 19,226 \$ 19,810 \$ 14,469 \$ 7,637 \$ 3,895 \$ 2,570 \$ 15,173 \$ 48,764 \$ 219,822 \$ 6,392,489 \$ 5,940,383 87% \$ Non-Grandfurburged LE CLASSES \$ 6,6094 \$ 140,688 \$ 261,813 \$ 144,760 \$ 16,734 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,312 \$ 6,351 \$ 2,551 \$ 1,000,513 \$ 886,998 13% \$ Non-Grandfurburged LE CLASSES \$ 9,507 \$ 15,173 \$ 48,764 \$ 19,802,489 \$ 5,940,383 87% \$ Non-Grandfurburged LE CLASSES \$ 9,507 \$ 15,173 \$ 48,764 \$ 19,0502 \$ 5,940,383 87% \$ Non-Grandfurburged LE CLASSES \$ 0,500 \$ 15,173 \$ 48,764 \$ 2,19822 \$ 6,392,489 \$ 5,940,383 87% \$ Non-Grandfurburged LE CLASSES \$ 0,500 \$ 15,173 \$ 44,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 2,514 \$ 3,103 \$ 5,515 \$ 15,518 \$ 15,518 \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540,388 \$ \$ 5,540 \$ \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 5,514 \$ 3,103 \$ 5,515 \$ 15,588 \$ 5,540,388 \$ \$ \$ 5,540,388 \$ \$ \$ 5,540 \$ \$ 103,388 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 102,508 \$ 46,780 \$ \$ 102,208 \$ 46,780 \$ \$ 102,208 \$ \$ 46,780 \$ \$ 103,500 \$ \$ 5,415 \$ \$ 5,541 \$ \$ 3,103 \$ \$ 5,556 \$ \$ 103,660 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,550 \$ \$ 103,500 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,540 \$ \$ 103,580 \$ \$ 5,550 \$ \$ 103,500 \$ \$ 5,540 \$ \$ 103,500 \$ \$ 5,540 \$ \$ 103,500 \$ \$ 5,540 \$ \$ 103,500 \$ \$ 5,540 \$ \$ 103,500 \$ \$ 5,550	SALES HLF CLASSES \$ 82,966 \$ 158,997 \$ 281,997	\$ 110 686 \$	6 7 6	\$ 25,563	26,137		43,592	173,320	4.988.660	Þ	
Non-Grandfabred LLF CLASSES \$ 34.256 \$ 19,810 \$ 14,469 \$ 7,637 \$ 13,000 \$ 25,100 \$ 15,175 \$ 54,54 \$ 219,822 \$ 6,322,489 \$ 5,940,383 87% \$ Non-Grandfabred LLF CLASSES \$ 56,094 \$ 140,658 \$ 261,013 \$ 144,750 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 5,415 \$ 3,322 \$ 8,331 \$ 29,554 \$ 841,465 \$ 700 \$ 2,000 \$ 2,000 \$ 2,514 \$ 3,103 \$ 5,515 \$ 155,388 \$ 5,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 2,516 \$ 5,516 \$ 2,516 \$	Non-Grandfathered HI F CI ACCEC \$ 509,411 \$1,098,587 \$ 2,051,771	\$ 794,010	• •	23,UZB	21,150		25,513	46,089	1,040,613	869,898	
4 44. 45 4 16. 301 4 16. 5 102,208 5 46,784 5 16,391 5 5,415 5 5,415 5 5,415 5 3,515 2 5,515 5 3,515 5 5,515 5 5 5,538 5 5 5,538 5 5 5,538 5 5,555 5 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,55555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,55555 5 5,5555 5 5,5555 5 5,5555 5 5,5555 5 5,55555 5 5,555555	Non-Grandfathered LLF CLASSES S 66 004 C 110 056 C 201256	\$ 14,469	\$	\$ 2.703	2,610		48,764	219,822	6,392,489	5,940,383	
		A	\$	\$ 5,415	5,415		8.351	010'0	125,828 224,621		

57-C

V HAMPSHIRE DIVISION Jd Alloctor (SMBA) Calculations

Northern Utilitir Simplified Marı <u>Cost Summary</u>

3/14/2007 1:59 PM

Y HAMPSHIRE DIVISION d Alloctor (SMBA) Calculations 3/14/2007 1:59 PM Northern Utiliti Simplified Mark Cost Summary

(

Summary of Gas Costs

	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aun-07	Con 07	2010	11		
TOTAL COMMODITY AND CAPACITY									0.00	In-Rev	In-dae	Oct-U/	TOTAL	WINTER	SUMMER
Ras Heat Res General GS0 Low Annuai-Low Winter GS0 Low Annuai-Low Winter G30 Low Annuai-High Winter G31 Med Annuai-High Winter G32 High Annuai-High Winter Mon-Grandfathered T30 Low Annuai-High Winter Non-Grandfathered T30 Low Annuai-High Winter Non-Grandfathered T31 Med Annuai-High Winter Non-Grandfathered T32 High Annuai-High Winter	\$1,663,721 \$27,171 \$163,755 \$41,018 \$351,735 \$351,735 \$351,735 \$351,733 \$276,399 \$27,358 \$351,730 \$27,908 \$3,730 \$7,358 \$37,358 \$7,358	\$2,794,418 \$3,413 \$1,86,418 \$1,467,828 \$1,467,828 \$1,569,417 \$481,152 \$2,1503,417 \$481,152 \$75,901 \$75,901 \$1,5566 \$155,666 \$155,666			251,067 32,132 142,722 142,822 142,827 145,823 37,917 357,917 357,917 359,300 59,300 59,300 111,808 111,808 128,446	\$ 1,463,486 \$ 1,463,486 \$ 159,788 \$ 159,788 \$ 332,825 \$ 332,825 \$ 12,510 \$ 227,179 \$ 12,510 \$ 227,179 \$ 227,170 \$ 226,496 \$ 24,712 \$ 205,496 \$ 205,406 \$ 205,406 \$ 205,406 \$ 205,406 \$ 205,406 \$ 207,107 \$ 207	<pre>652.998 5 123.524 5 5 123.524 5 5 123.524 5 5 236.87.458 5 5 236.87.458 5 5 136.778 5 106.778 5 5 106.778 5 5 312.200 5 5 312.148 5 5</pre>	328,671 16,142 16,142 107,369 107,369 107,369 107,369 107,369 132,198 35,535 35,535 35,555 35,555 35,555 35,5555 35,55555 35,55555555	322,320 17,994 17,994 12,5638 215,638 215,638 215,638 215,638 215,638 2114 3,284 3,2	271,048 5 121,005 5 121,005 5 203,529 5 70,698 5 70,696 5 70,696 5 70,635 5 70,636 5 70,636 5 70,535 6627 3,341 5 3,551 5 3,551 5 3,551 5 5,510 5 3,511 7 10,213 5 10,213 5 10,213 5 10,213	 \$ 436,650 \$ 17,556 \$ 17,556 \$ 133,470 \$ 133,470 \$ 133,470 \$ 133,734 \$ 133,779 \$ 11,579 \$ 64,065 \$ 11,579 \$ 64,065 \$ 11,579 \$ 1	0 \$1,040,189 6 \$ 21,820 6 \$ 21,820 2 \$ 129,764 6 \$ 275,536 6 \$ 277,249 6 \$ 161,034 6 \$ 162,035 6 \$ 163,035 6 \$ 164,035 6 \$ 164	 \$17,915,956 \$15,915,956 \$305,072 \$1,861,843 \$9,577,419 \$3,9977,419 \$3,992,759 \$1,023,616 \$3,039,259 \$1,422,286 \$464,824 \$464,824 \$651,916 \$2,473,820 \$1,027,661 \$1,027,661 	<pre>\$14,864,082 \$ 198,637 \$ 1,113,919 \$ 7,750,933 \$ 2,750,933 \$ 2,281,236 \$ 7,956,610 \$ 2,404,620 \$ 2,404,620 \$ 2,404,620 \$ 383,772 \$ 383,775 \$ 2,032,794 \$ 2,032,794 \$ 2,032,794</pre>	 3,051,876 3,051,876 106,435 747,924 747,924 1,226,466 1,366,630 1,366,630 1,333,196 684,639 682,630 1,333,196 622,380 622,380 622,380 644,639 524,742 524,742 544,026 544,026 524,742 535 544,026 544,026
			•		\$ 6,571,058	\$ 4,367,781	\$ 2,070,809 \$	\$ 1,152,555	\$ 1,318,810	\$ 1,059,713	\$ 1,483,421	1 \$ 3,143,990	\$ 53,248,188	\$43,018,890	\$ 10,229,298
SALES HLF CLASSES SALES LLF CLASSES Non-Grandfathered HLF CLASSES Non-Grandfathered LLF CLASSES	\$ 1,090,872 \$ 1,990,872 \$ 1,990,872 \$ 313,053 \$ 373,053	\$ 2,829,831 \$ 1,082,818 \$ 3,419,397 \$ 108,883 \$ 610,347 \$	\$ 3,913,406 \$ 1,314,057 \$ 4,797,074 \$ 134,316 \$ 813,571	\$2,856,099 \$1,093,255 \$3,452,391 \$111,847 \$614,842	\$2,283,200 \$ 959,755 \$2,732,317 \$ 98,031 \$ 497,757	\$ 1,489,291 \$ 747,023 \$ 1,720,111 \$ 77,867 \$ 333,489 \$ 333,489	<pre>\$ 671.346 \$ \$ 486.618 \$ \$ 486.618 \$ \$ 707,786 \$ \$ 52,968 \$ \$ 152,091 \$ </pre>	344,813 406,467 274,986 46,806 79,483	8 340,314 6 407,598 6 437,875 51,648 81,376	<pre>\$ 285.623 \$ 395,233 \$ 265,310 \$ 46,072 \$ 67,474</pre>	 \$ 454,206 \$ 449,893 \$ 421,816 \$ 53,310 \$ 104,197 	6 \$1.062,009 3 \$ 593,126 6 \$1,186,549 0 \$ 63,680 7 \$ 238,626	\$ 18,221,030 \$ 8,727,728 \$ 21,406,484 \$ 926,640 \$ 3,966,305	\$15,062,719 \$5,988,794 \$18,112,162 \$612,156 \$3,243,058	 \$ 3,158,311 \$ 2,738,934 \$ 3,294,322 \$ 3,14,48 \$ 723,247

N.H.P.U.C No.10 NORTHERN UTILITIES, INC.

Thirty-first Revised Page 38 Superseding Thirtieth Revised Page 38

CALCULATION OF COST OF GAS ADJUSTMENT New Hampshire Division

Period Covered: May 1, 2007 - October 31 2007 Anticipated Cost of Delivered and Produced Gas

Delivered;	Therms	Rate	Amount
Product: - Commodity			
Granite State Supply	4,962,687	\$0.858	\$4,257,406
Domestic Supply	6,249,585	\$0.780	\$ 4,872,443
Storage Withdrawals	0	\$0.000	\$ -
Peaking Supply	48,614	\$0.863	\$ 41,955
Hedging (Gain)/Loss			\$126,764
Interruptible Included Above			\$ (32,724)
Product: - Demand			
Granite State and Others			\$52,365
Pipeline Reservation			
Granite State and Others			\$532,099
Storage & Peaking Demand			
Tennessee and Others			\$505,754
Capacity Release			\$0
Less: Unaccounted For, Company Use & Interruptible Volumes	(231,266)		\$0
TOTAL Anticipated Cost of Gas	11,029,620	\$0.9389	\$10,356,062
			_

Issued: March 15, 2007 Effective Date: May 1, 2007 Authorized by NHPUC Order No. In Case No. dated

• • •

1 Se ephen H. Bryant issued by:C President

Calculation of Anticipated Indirect Cost of Gas-New Hampshire Division

Working Capital Calculation	
Total Anticipated Direct Cost of Gas-Commodity	\$9,265,844
Total Anticipated Direct Cost of Gas-Demand	\$1,090,218
Interruptible Profits	
LESS Anticipated Direct Costs assigned to Non-Grandfathered Transportatic_	(\$1,046,908)
Total Direct Cost of Gas	\$9,309,154
Total Direct gas Costs	\$9,309,154
Working Capital Percentage (NHPUC No. 10 Section 4.06.1)	0.19%
Working Capital Allowance (NHPUC No. 10 Section 4.06.1)	\$17,687
Plus: Working Capital Reconciliation	(\$2,238)
Total Working Capital Allowance	\$15,449
Pad Daht Calculation	
Bad Debt Calculation	CO 200 154
Total Anticipated Direct Cost of Gas Plus: Total Working Capital	\$9,309,154 \$15,449
Subtotal	\$9,324,603
Bad Debt Percentage (NHPUC No. 10 Section 4.06.1)	0.45%
Total Bad Debt Allowance	\$41,961
Plus: Bad Debt Reconciliation	(\$5,230)
Total Bad Debt Allowance	\$36,731
	<i>tee, ee</i>
	<u>\$\$</u>
Working Capital Allowance	\$15,449
Bad Debt Allowance	\$36,731
Miscellaneous Overhead-23.2% Allocated to Summer Season	\$28,837
Production and Storage Capacity	\$0
Prior Period Under/(Over) Collection	(\$633,021)
Refunds	\$0
Interest	(\$25,124)
Total Anticipated Indirect Cost of Gas	(\$577,128)
Total Anticipated Direct Cost of Gas-Commodity	\$9,265,844
Total Anticipated Direct Cost of Gas-Demand	\$1,090,218
Total Anticipated Period Cost of Gas	\$9,778,934
Foregoted Of Deck Decid Therese First	0.000.050
Forecasted Off-Peak Period Therms-Firm	9,882,850
Forecasted Non-Grandfathered Therms	1,146,770
	11,029,620

	Residential	C&I Low Winter	C&I High Winter
Forecasted Summer Season Cost of Gas Rate:			
COGs-Commodity	\$0.8401	\$0.8303	\$0.8429
COGs-Demand	\$0.0988	\$0.0587	\$0.1427
COGs-Indirect	(\$0.0584)	(\$0.0584)	(\$0.0584)
COGs-Total	\$0.8805	\$0.8306	\$0.9272

Issued: March 15, 2007 Effective: With Service Rendered On and After May 1, 2007

Stephen H. Bryant President \checkmark issued by: Title:

Northern Utilities - NEW HAMPSHIRE DIVISION Calculation of Summer Period Gas Cost Factor Effective May 2007

Line		R-1 & R-2	G-50,51, 52 Low Winter	G-40,41,42 High Winter	Non- Grandfathered	
<u>No.</u>	Firm Sales Service	Residential	Classes	Classes	Transp.	<u>Total</u>
1	Summer Demand Costs -	\$331,116	\$183,568	\$486,144	\$89,389	\$1,090,218
2	Forecasted Sales (MMBtu)	3,349,870	3,125,770	3,407,210	1,146,770	11,029,620
3	Unit Summer Demand Cost (Ln 1 divided by Ln 2) COGs-Demand	\$0.0988	\$0.0587	\$0.1427		\$0.0988
4	Summer Commodity Costs -	\$2,775,683	\$2,570,412	\$2,844,643	\$948,342	\$9,139,080
5	Hedging (Gain)/Losses	\$38,500	\$25,014	\$27,266	\$9,177	\$126,764
6	Total Commodity	\$2,814,183	\$2,595,426	\$2,871,909	\$957,519	\$9,265,844
5	Forecasted Sales (MMBtu) -	3,349,870	3,125,770	3,407,210	1,146,770	11,029,620
6	Unit Summer Commodity Cost (Ln 4 divided by Ln 5) COGs-Commodity	\$0.8401	\$0.8303	\$0.8429		\$0.8401
7	Indirect Gas Costs					-\$577,128
8	Forecasted Sales (MMBtu) -					9,882,850
9	Indirect Cost of Gas (Ln 7 divided by Ln 8) COGs-Indirect	(\$0.0584)	(\$0.0584)	(\$0.0584)		-\$0.0584
10	Total Cost of Gas (COGs)	\$0.8805	\$0.8306	\$0.9272		\$9,652,170

Northern Utilities - NEW HAMPSHIRE DIVISION

Summary of Costs to Winter and Summer Seasons

Э		New Arra	Mary Oat	Tetel
No	Description (1)	Nov - Apr (2)	May - Oct (3)	Total (4) = (2)+ (3)
1	DEMAND: Pipeline/Product Charges	\$4,248,510	\$584,464	\$4,832,973
1	ripenne/rioddol Charges	ψ+,2+0,010	ψυυτ,τυτ	ψ4,002,070
2	Capacity Credits	\$0	\$0	\$0
3	Total Pipeline/Product	\$4,248,510	\$584,464	\$4,832,973
4	Base Load Costs	\$338,516	\$338,516	\$677,033
5	Remaining Pipeline	\$3,909,994	\$245,947	\$4,155,941
6	Storage Demand	\$3,833,306	\$505,754	\$4,339,061
7	Peaking Demand	\$4,207,021	\$0	\$4,207,021
8	Off System Credits	(\$543,565)	(\$34,191)	(\$577,756)
_9	Total Demand Costs	\$11,745,273	\$1,056,026	\$12,801,299
10	COMMODITY:			
11	Pipeline/Product Commodity Charges	\$13,937,035	\$9,129,849	\$23,066,884
12	Base Load	\$8,111,650	\$7,664,336	\$15,775,986
13	Remaining Pipeline	\$5,825,385	\$1,465,513	\$7,290,898
14	Storage Commodity	\$13,921,699	\$0	\$13,921,699
15	Peaking Commodity	\$2,892,165	\$41,955	\$2,934,119
	Interruptible Included Above	\$ (20,846)	\$ (32,724)	\$ (53,570)
16	Hedging (Gain)/Loss	\$126,764	\$0	\$126,764
17	Total Commodity (Lines 14 + 18)	\$30,856,816	\$9,139,080	\$39,995,896
18	Total Demand and Commodity	\$42,602,089	\$10,195,106	\$52,797,196

	Σ
	-
	2
1	<u>e</u>
1	3:00
	-
	-
i	-
i	ā
1	007
1	5
2	=
	5

Page 1 of 1

.

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations COMMODITY COSTS

COMMODITY COSTS															
	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
1 Supply Volumes - therms															
2 Total Pipeline	1,824,084	2.353,862	2.411.597	2.184.633	1.868.484	3.555.415	2.288.194	1.360.964	1.543.782	1.236.704	1.634.126	3 148.504	25 408 349	14, 196, 076	11 212 273
Total Storage	2,810,275	4	4,931,827	4,293.016	3,560,516	351	0	0	0	0	0	0	19,757,767	19,757,767	0
4 Total Peaking	279,839		1.013.083	755,262	799,470	508,220	7,948	7,780	8,957	8,180	7.734	8.015	4.144.437	4,095,823	48,814
5 Supportation	4,914,198	1,2	8,356,507 î	7,232,911	6,226,470 î	4,063,988	2,296,142	1,368.744	1,552,738	1,244,884	1,641,860	3,156,519	49,310,552	38.049,666	11,260,886
. –	000 86	31 000	16 650	0000.000	0 000 00	600'21	11,452	015 0	GEU, 1	6,48U	6,330	11,549	81,493	COU.12	24,489 66,400
8 Total Firm	4.880.925	1.7	8.319.857	7 200 681	6 108 190	4 032 238	2 271 820	1 347 850	0,020 1 536 82A	0.040	1 625 240	3 128 620	052,062 087 000 AA	37 850 821	11 139.918
	4,832,610		8,237,450	7,129,320	6,136,800	3,992,350	2,249,340	1,334,500	1,521,610	1,217,390	1,609,130	3,097,650	48,505,600	37,475,960	11,029,620
	48,315	71,480	82,407	71,361	61,390	39,888	22,480	13,350	15,214	12,174	16,110	30,970	485,139	374,841	110,298
11 Percent 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	1% Asham huilt in	s 1% 1% 1%	1% counted For	1%	1%	1%	1%	1%	1%	4 %	1%	1%	1%	1%	1%
			counted For												
14 Variable Costs															
15 16 Total Pineline	\$ 1.707 776	\$ 2 345 4RG	\$ 2 482 523 \$	2 240 540 6	1 872 680 6	3 270 013 6	1 813 837 6	1 065 377	1 225 268 6	008 433 €	1 353 450 €	101 673 0	2 73 066 884	C 13 037 035	C 0 120 840
•		\$ 2.928.033	3 488 783	3 024 180							-	10101017	13 021 600	13 021 600	
Total Peaking			780,989		544.175 \$	346.535 \$	6.859 \$	6.714 \$	2.730 \$	7.060 \$	6.674 \$	6.917	2.934.119	\$ 2.892.165	41.955
	6	\$ 5.781,142	\$ 6.752.294 \$	20	4.924.005 \$	3.625.839 \$	1.820.691 \$	1.072.091 \$	1.232.998 \$	1.005.493 \$	1.360.134 \$	2,680,398	39.922.702	\$ 30.750.898	\$ 9.171.804
19 Total Interruptible Incl Above		، ج	I			11,633 \$	10,341 \$	4		5,535 \$	6,035 \$	10,808	53,570	\$ 20,846	32,724
Hedging (Gain)/Loss	0\$	0\$	0 \$	0 \$	\$0	\$,		•
20 Total (Without Interr)	\$ 3,863,095	\$ 5,781,142	\$ 6,752,294 \$	5,795,310 \$	4,924,005 \$	3,614,208 \$	1,810,350 \$	1,072,087 \$	1,232,998 \$	999,958 \$	1,354,098 \$	2,669,590	\$ 39,869,132	\$ 30,730,052	\$ 9,139,080
21															
Supply Cost/Therm	(Includes all var	(includes all variable costs, both supplier and transportation)	pller and transpor	tation)											
24 25 Total Pineline	6 0.036	\$0 008	61 020	61 030	£1 003	¢0.023	60 703	¢0 783	60 704	\$0 807	¢0.070	¢0 010	000 U 3		
· –	\$0.702		\$0.707	\$0 704	\$0.704	\$0.827	\$0.000	\$0.703	\$0.000	\$00.00	870.000 8,0000	610.0¢	\$0.908		
-	\$0.683		\$0.771	\$0.691	\$0.681	\$0.682	\$0.863	\$0.883	\$0.863	\$0.863	\$0.863	\$0.863	\$0.708		
	\$0.788		\$0.808	\$0.801	\$0.791	\$0.892	\$0.793	\$0.783	\$0.794	\$0.808	\$0.828	\$0.849	\$0.810		
	\$0.900		\$0.000	\$0.000	\$0.000	\$0.969	\$0.903	\$0.000	\$0.000	\$0.854	\$0.953	\$0.936	\$0.657		
30 IOIAI 31	\$0.791	\$0.801	\$0.812	\$0.805	\$0.794	\$0.896	\$0.797	\$0.795	\$0.802	\$0.813	\$0.833	\$0.853	\$0.814		
33 Commodity Costs															
34 36 Binding Augusto Cod													000 0		
36 Base Commodity, thems		\$ 0.990 \$	1,382,505	1.030 \$	1.381,175	0.922 \$ 1,337,127	0.793 \$	0.783 \$ 1,201,547	0.794 \$	0.807 \$	0.826 \$	0.649	15,775,986	8,111,650	\$ 0.814 7,664,336
36 Base Commodity Cost	\$ 1.250.699	\$ 1.376.101 \$	1.423.165 \$	1 332 399 \$	1.385.767 \$	1.233.177 \$	1.038.022 \$	940.584 \$	1.080.468 \$	975.026 \$	1.023.612 \$	1.144.938	\$ 14.203.956	\$ 8.001.307	\$ 6.202.649
				000' 7 00'							1000701			100100010	
40 Remaining Commodity	\$ 2.612,396	\$ 4,405,042 \$	5,329,129 \$	4,462,911 \$	3,538,238 \$	2,381,028 \$	772,328 \$	131,503 \$	152,530 \$	24,932 \$	330,486 \$	1,524,652	\$ 25,665,177	\$ 22,728,745	\$ 2,936,431
42 Total Commodity	\$ 3,863,095 \$	\$ 5,781,142 \$	6,752,294 \$	5,795,310 \$	4,924,005 \$	3,614,208 \$	1,810,350 \$	1,072,087 \$	1,232,998 \$	999'B28 \$	1,354,098 \$		2,669,590 \$ 39,869,132 \$ 30,730,052		\$ 9,139,080

3/13/2007 9:34 AM

Page 1 of 1

.....

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations DEMAND COSTS

- c	DEVELOPMENT OF BASE AND REMAINING DEMAND COSTS.	REMAINING DI	EMAND COS	ŝ		
7		1 0131				
e		MDQ	Costs	Unit Cost		
4						
2	Pipeline & Product Demand	31,851	\$4,832,973	\$ 151.74		
9	Less: Base Use	4.462	\$677,033			
~	Remaining Pipeline Use	27,389	\$4,155,941			
8						
6						
10	BASE DEMAND COSTS ALLOCATED BY MONTH:	ATED BY MON	ΞH			
=	I	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08
12						
13	BASE DEMAND COSTS	\$56,419	\$56.419	\$56.419	\$56.419	\$56.419
14						
15						
16	DETAIL OF TOTAL REMAINING DEMAND COSTS:	DEMAND COS	TS:			
17	Pipeline - Base	\$56,419	\$56,419	\$56,419	\$56,419	\$56,419
18	Pipeline - Remaining	\$329,937	\$724,299	\$1,362,314	\$744,909	\$520,435
19	Storage & Peaking	\$678,466	\$1,489,415	\$2,801,398	\$1,531,795	\$1,070,199
20						
21	TOTAL	\$1,064,822	\$2,270,133	\$4,220,131	\$2,333,123	\$1,647,054
22						
23	Less: Capacity Release	\$0				
24						
25	Total for Working Capital	\$13,379,055				
26						
27	Demand Cost Deducts					
28	Interuptible Margins	\$0				
29	Off System Sales Margins	\$0				
8	Other	\$0				
3	TOTAL DEDUCTS	\$0				
32						
33	Grand Total - Capacity	\$13,379,055				

\$338,516 \$245,947 \$505,754

\$338,516 \$3,909,994 \$8,040,327

\$677,033 \$4,155,941 \$8,546,082

\$56,419 \$136,758 \$281,223

\$56,419 \$23,853 \$49,050

\$56,419 \$1,091 \$2,244

\$56,419 \$9,617 \$19,776

\$56,419 \$7,869 \$16,181

\$56,419 \$66,759 \$137,280

\$56,419 \$228,101 \$469,055

\$474,400 \$13,379,055 \$12,288,837 \$1,090,218

\$129,323

\$59,755

\$85,813

\$80,469

\$260,459

\$753,575

\$338,516

\$338,516 Winter

\$677,033 TOTAL

\$56,419 Oct-07

\$56,419 Sep-07

\$56,419

\$56,419 Jul-07

\$56,419 Jun-07

\$56,419 May-07

\$56,419

Apr-08

Aug-07

Summer

SMBA-NH_2007_Summer_OffPeak.xls Demand

.

Northern Utilities - NEW HAMPSHIRE DIVISION SENDOUT FORECAST: Normal Calendar Month Sendout (MMBtu) DESIGN DAY DEMANDS ALL DIVISIONS

-	Sendout for Design Day Calculation					Excludes Design Day Base	n Day Base
2		Design Day	% of	Design Day	% of	Sensitive	
e		Forecast	Total	Base	Total	Design Day	% of
4	Customer Class	HN	Total	HN	Total	퓐	Total
ŋ							
ø	Res Heat	20,719	36.59%	1,140	24.80%	19,579	37.64%
2	Res General	175	0.31%	69	1.50%	106	0.20%
æ	G50 Low Annual-Low Winter	1,503	2.65%	1,160	25.23%	343	0.66%
6	G40 Low Annual-High Winter	11,296	19.95%	311	6.77%	10,985	21.12%
9	G51 Med Annual-Low Winter	2,639	4.66%	850	18.49%	1,789	3.44%
5	G41 Med Annual-High Winter	11.231	19.84%	370	8.05%	10,861	20.88%
12	G52 High Annual-Low Winter	1,385	2.45%	235	5.11%	1,150	2.21%
13	G42 High Annual-High Winter	3,737	6.60%	153	3.33%	3,584	6.89%
14	Non-Grandfathered T50 Low Annual-Low Winter	62	0.11%	6	0.20%	53	0.10%
15	Non-Grandfathered T40 Low Annual-High Winter	302	0.53%	20	0.44%	282	0.54%
16	Non-Grandfathered T51 Med Annual-Low Winter	418	0.74%	102	2.22%	316	0.61%
17	Non-Grandfathered T41 Med Annual-High Winter	2,461	4.35%	119	2.59%	2,342	4.50%
8	Non-Grandfathered T52 High Annual-Low Winter	42	0.07%	12	0.26%	30	0.06%
19	Non-Grandfathered T42 High Annual-High Winter	650	1.15%	47	1.02%	603	1.16%
20	Non-Grandfathered Special Contracts	56,620		4,597		52,023	
21							
22	Residential	20,894	36.90%	1,209	26.30%	19,685	37.84%
33		5,527	9.76%	2,245	48.84%	3,282	6.31%
24	SALES LLF CLASSES	26.264	46.39%	834	18.14%	25,430	48.88%
25	Non-Grandfathered HLF CLASSES	522	0.92%	123	2.68%	399	0.77%
26	Non-Grandfathered LLF CLASSES	3.413	6.03%	<u>186</u>	4.05%	3,227	6.20%
27	Grand Totai	56,620	100.00%	4,597	100.00%	52,023	100.00%

1	Northern Utilities - NEW HAMPSHIRE DIVISION
2	

Summary of Demand and Supply Forecast	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Total	
I. Gas Volumes	ing of	oun of		, tug ti				
A. Firm Demand Volumes (Therms)	0.040.070	4 4 9 9 9 9 9		4 000 000	4 405 440		0.000.050	
Firm Gas Sales Lost Gas (Unaccounted For)	2,019,670 22,480	1,186,800 13,350	1,365,360 15,214	1,087,980 12,174	1,435,440	2,787,600 30,970	9,882,850 110,298	
Company Use	12,870	9,310	8,820	8,840	16,110 10,290	16,350	66,480	
interruptible	11,452	11,584	7,095	6,480	6,330	11,549	54,489	
Non-Grandfathered Transportation	229,670	147,700	156,250	129,410	173,690	310,050	1,146,770	
Unbilled Therms	Q	Q	Q	Q	Q	Q	0	
Total Firm Demand Volumes	2,296,142	1,368,744	1,552,738	1,244,884	1,641,860	3,156,519	11,260,886	
B. Supply Volumes (Net Therms)								
Pipeline Gas: GSGT PNGTS Deliveries	180.069	170 005	202.923	105 005	475 047	181.588	1 404 200	
GSGT TGP Niagra	539,603	176,265 192,868	199,006	185,336 8,480	175,217 387,917	522,430	1, 1 01,398 1,850,304	
GSGT TGP Niagra via Chicago	391,195	382,924	440,845	402,637	380,647	394,494	2,392,742	
AGT FT Deliveries via Chicago	558,194	608,912	701.007	640,251	576,430	552,164	3,636,958	
AGT FT Deliveries	130,467	0	0	D	49,192	101,087	280,746	
TGP Gulf Coast	488,667	(6)	D	0	64,723	1,396,740	1,950,125	
Tennessee @ Dracut	0	0	0	0	0	0	0	
Hubline	0	0	0	0	0	0	0	
Subtotal Pipeline Volumes	2,288,194	1,360,964	1,543,782	1,236,704	1,634,126	3,148,504	11,212,273	
Storage TGP FS Stg	0	0	0	0	0	0	D	
TETCO Stg (SS1, FSS)	0	o	0	0	0	0	0	
MCN Stg	ů 0	0 0	õ	õ	ő	ő	ő	
Other	õ	õ	ŏ	õ	õ	õ	ŏ	
Other	Ō	ō	ō	Ō,	ŏ	Ō	õ	
Other	0	0	0	0	0	0	0	
Other	0	0	0	0	0	0	0	
Subtotal Storage Volumes	0	0	0	0	0	0	0	
Peaking Domac	0	0	D	D	0	0	0	
LNG (includes boiloff)	7,948	7,780	8,957	8,180	7,734	8.015	48,614	
Propane	7,940	7,780	0,957	0,180	7,734	8,015	40,014	
Duke	õ	ŏ	õ	õ	õ	ŏ	ŏ	
Other	0	0	0	0	0	0	0	
Other	0	0	0	0	0	0	0	
Subtotal Peaking Volumes	7,948	7,780	8,957	8,180	7,734	8,015	48,614	
Total Floor Data (Data data b) (aligned								
Total Firm Sales/Sendout Volumes	2,296,142	1,368,744	1,552,738	1,244,884	1,641,860	3,156,519	11,260,886	Shouid be Z
Pipeline/Supply Related Demand Costs Granite PNGTS Algonquin Iconupis							\$52,365 \$19,849 \$23,187	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL							\$19,849	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other							\$19,849 \$23,187 \$30,245 \$188,855 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$0 \$0	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage							\$19,849 \$23,187 \$30,245 \$188,855 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$0 \$584,464	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs							\$19,849 \$23,187 \$30,245 \$188,855 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$0 \$0	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$138,536 \$59,359 \$0 \$584,464 \$9,327	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other							\$19,849 \$23,187 \$30,245 \$188,855 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$58,464	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other							\$19,849 \$23,187 \$30,245 \$188,855 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other							\$19,849 \$23,187 \$30,245 \$188,855 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$58,464	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Other Other Other Other							\$19,849 \$23,187 \$30,245 \$188,855 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other							\$19,849 \$23,187 \$30,245 \$188,855 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Other Subtotal Storage Demand Costs Peaking							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN							\$19,849 \$23,187 \$30,245 \$188,855 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$248,970	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$134,325 \$248,970 \$33,994	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Other Other Subtotal Storage Demand Costs							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$28,465 \$134,325 \$248,970 \$33,994 \$0 \$0 \$134,325	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Other Other Other Other Other Other Other Subtotal Storage Demand Costs							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$248,970 \$93,994 \$0 \$0 \$0 \$24,77,289 \$0	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Other Other Subtotal Storage Demand Costs							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$28,465 \$134,325 \$248,970 \$33,994 \$0 \$0 \$134,325	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Other Other Other Subtotal Paking Demand Costs Capacity Release Off System Credits							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$248,970 \$93,994 \$0 \$477,289 \$0 \$0 \$0 \$477,289 \$0 \$0 \$0 \$0 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$0 \$20 \$10 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$2	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Other Other Other Subtotal Pipeline Demand Costs							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$248,970 \$93,994 \$0 \$0 \$0 \$24,77,289 \$0	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TCP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Subtotal Pipeline Demand Costs Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other							\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$248,970 \$93,994 \$0 \$477,289 \$0 \$0 \$0 \$477,289 \$0 \$0 \$0 \$0 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$0 \$20 \$10 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$2	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Other Other Other Subtotal Papeling Demand Costs Capacity Release Off System Credits	56.97%	57.63%	64 21%	58 64%	57 29%	57 46%	\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$248,970 \$93,994 \$0 \$477,289 \$0 \$0 \$0 \$477,289 \$0 \$0 \$0 \$0 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$0 \$20 \$10 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$2	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Other Subtotal Pipeling Demand Costs Capacity Release Off System Credits Total Demand Costs NH Allocation Factors Pipeline Purchases	56.97%	57.63%	64.21%	58.64%	57.29%	57.46%	\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$248,970 \$93,994 \$0 \$477,289 \$0 \$0 \$0 \$477,289 \$0 \$0 \$0 \$0 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$0 \$20 \$10 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$2	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Other Subtotal Pipeline Demand Costs Capacity Release Off System Credits Total Demand Costs B. Supply Commodity Costs NH Allocation Factors Pipeline Purchases GSGT PNGTS Deliveries	56.97% \$124,978	57.63% \$124.150	64.21% \$145,354	58.64% \$134.497	57.29% \$128.279		\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$28,465 \$134,325 \$246,970 \$93,994 \$0 \$134,325 \$246,970 \$93,994 \$0 \$134,325 \$246,970 \$93,994 \$0 \$134,325 \$246,970 \$93,994 \$0 \$134,325 \$246,970 \$0 \$30 \$1,090,218	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastem Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Subtotal Peaking Demand Costs Capacity Release Off System Credits Total Demand Costs B. Supply Commodity Costs NH Allocation Factors Pipeline PNGTS GSGT PNGTS Deliveries GSGT TGP Niagra						57.46% \$134,784 \$449,773	\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$248,970 \$93,994 \$0 \$477,289 \$0 \$0 \$0 \$477,289 \$0 \$0 \$0 \$0 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$0 \$20 \$10 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$0 \$20 \$2	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastem Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Other Other Other Other Subtotal Pipeling Demand Costs Capacity Release Off System Credits Total Demand Costs B. Supply Commodity Costs NH Allocation Factors Pipeline Purchases GSGT TGP Niagra ia Chicago	\$124,978 \$438,041 \$307,388	\$124,150 \$146,739 \$304,769	\$145,354 \$151,733 \$356,050	\$134,497 \$6,496 \$328,910	\$128,279 \$333,455 \$313,350	\$134,784 \$449,773 \$328,661	\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$246,970 \$93,994 \$0 \$1,34,325 \$246,970 \$0 \$1,990,218 \$792,042 \$1,526,237 \$1,939,127	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Other Subtotal Paking Demand Costs Capacity Release Off System Credits Total Demand Costs B. Supply Commodity Costs NH Allocation Factors Pipeline Purchases GSGT TGP Niagra GSGT GSGT GSG GSGT TGP Niagra GSGT GSG G	\$124,978 \$438,041 \$307,388 \$443,210	\$124,150 \$146,739 \$304,769 \$489,718	\$145,354 \$151,733 \$356,050 \$572,131	\$134,497 \$6,496 \$328,910 \$528,531	\$128,279 \$333,455 \$313,350 \$479,539	\$134,784 \$449,773 \$328,661 \$464,908	\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$284,465 \$134,325 \$28,465 \$134,325 \$28,465 \$134,325 \$248,970 \$33,994 \$0 \$1,090,218 \$792,042 \$1,526,237 \$1,939,127 \$2,978,037	
Granite PNGTS Algonquin Iroquois Tennessee Texas Eastern Trans Canada Transco Vector Union Domac Duke Other TCPL Subtotal Pipeline Demand Costs Storage TGP FS Stg TETCO Stg (SS1, FSS) Granite Stg Other Other Other Other Other Subtotal Storage Demand Costs Peaking Trans Canada PNGTS MCN Other Other Other Other Subtotal Pipeling Demand Costs Capacity Release Off System Credits Total Demand Costs B. Supply Commodity Costs NH Allocation Factors Pipeline Purchases GSGT TGP Niagra GSGT TGP Niagra	\$124,978 \$438,041 \$307,388	\$124,150 \$146,739 \$304,769	\$145,354 \$151,733 \$356,050	\$134,497 \$6,496 \$328,910	\$128,279 \$333,455 \$313,350	\$134,784 \$449,773 \$328,661	\$19,849 \$23,187 \$30,245 \$188,855 \$4,395 \$20,725 \$579 \$36,115 \$9,253 \$139,536 \$59,359 \$0 \$584,464 \$9,327 \$206 \$18,932 \$0 \$0 \$28,465 \$134,325 \$246,970 \$93,994 \$0 \$1,34,325 \$246,970 \$0 \$1,990,218 \$792,042 \$1,526,237 \$1,939,127	

4			May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Total
95	Tennessee @ Dracut		\$0	\$0	\$0	\$0	\$0	\$0	\$0
96	Hubline		\$0	\$0	\$0	\$0	\$0	\$0	\$0
97	Total Pipeline Purchase \$\$	S	1,813,832	\$1,065,377	\$1,225,268	\$998,433	\$1,353,459	\$2,673,481	\$9,129,849
98									
99	Storage Withdrawais								
100	TGP FS Stg		\$0	\$0	\$0	\$0	\$0	\$0	\$0
101	TETCO Stg (SS1, FSS)		\$0	\$0	\$0	\$0	\$0	\$0	\$0
102	MCN Stg		\$0	\$0	\$0	\$0	\$0	\$0	\$0
103	Other		\$0	\$0	\$0	\$0	\$0	\$0	\$0
104	Other		\$0	\$0	\$0	\$0	\$0	\$0	\$0
105	Total Storage Withdrawal \$\$		\$0	\$0	\$0	\$0	\$0	\$0	\$0
106									
107	Peaking								
108	Domac		\$0	\$0	\$0	\$0	\$0	\$0	\$0
109	LNG		\$6,859	\$6,714	\$7,730	\$7,060	\$6,674	\$6,917	\$41,955
110	Propane		\$0	\$0	\$0	\$0	\$0	\$0	\$0
111	Duke		\$0	\$0	\$0	\$0	\$0	\$0	\$0
112	Other		\$0	\$0	\$0	\$0	\$0	\$0	\$0
113	Other		\$0	\$0	\$0	\$0	\$0	\$0	\$0
114	Total Peaking \$\$		\$6,859	\$6,714	\$7,730	\$7,060	\$6,674	\$6,917	\$41,955
115			-						
116	Interruptible included above	\$	(10,341)	\$ (4)	s -	\$ (5,535)	\$ (6.035)	\$ (10,808)	\$ (32,724)
117				. ,					
118	Hedging (Gain)/Loss		\$41,930	\$0	\$0	\$0	\$0	\$84,834	\$126,764
119									
120	Total Commodity Costs	\$	1,852,280	\$1,072,087	\$1,232,998	\$999,958	\$1,354,098	\$2,754,424	\$9,265,844
121									
122	Total Direct Costs								\$10,356,062

Page 1 of 7 .

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations <u>REMAINING COSTS</u>

1 Annual Allocation (by class) of Remaining Demand by Component

Storage & capacity Storage & capacity Demand Capacity Demand Demand Demand Release Demand Release S6:346 5 S8 533.755 S8 533.755	•	 Annual Allocation (by class) of Remaining Demand by Component 	emand by com	Ineno	R	Allocated	Allocated	ted					1				
Priorition Prediction Returning Freemand Returning Married Returning Allocated ASIS Returning Allocated ASIS Returning Allocated ASIS Returning Allocated ASIS \$ 1564:100 \$ 3.715:43 \$ 17.413 \$ 2.813:46 \$ 17.813 \$ 2.823:16 \$ 17.813 \$ 1254:115 \$ 17.841:102 \$ 3.715:43 \$ 1.904.905 \$ 2.823:16 \$ 2.823:16 \$ 2.823:16 \$ 1254:115 \$ 12.841:102 \$ 3.716:12 \$ 2.863:16 \$ 2.863:16 \$ 2.863:16 \$ 2.863:16 \$ 2.863:14 \$ 5.86,102 \$ 2.853:16 \$ 2.863:16 \$ 2.863:16 \$ 2.863:16 \$ 2.863:16 \$ 2.863:16 \$ 2.863:16 \$ 2.863:16 \$ 2.863:16 \$ 2.863:16 \$ 2.863:16 \$ 2.873:26 \$ 2.873:26 \$ 2.873:26 \$ 2.873:26 \$ 2.873:26 \$ 2.873:26 \$ 2.873:26 \$ 2.873:26 \$ 2.873:26 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 \$ 2.853:16 >				Allocated	ซึ่	orage &	Capa	city	Allocated	Allocate	HO Pi		5	ocated Net			
Unitarial Longaria				Pipeline	<u> </u>	eaking	Relea	ise	Interruptible	System		Allocated AP/		Company			
1564.100 3.216.342 5 5 4.106 3.216.342 5 4.106 4.102				Demand		emano	nem	DUE	Margins	nain		NOCALED ANY					
8 7.401 5 <td></td> <td>es Heat</td> <td>\$</td> <td>1,564,100</td> <td>€</td> <td>1,216,342</td> <td>€9</td> <td>,</td> <td>' \$</td> <td>\$</td> <td>,</td> <td></td> <td>\$</td> <td>4,780,441</td> <td></td> <td></td> <td></td>		es Heat	\$	1,564,100	€	1,216,342	€9	,	' \$	\$,		\$	4,780,441			
8 72/401 5.6.346 5 5 5 5 5 5 6.3.47 5 14.2317 5 10.317 5 10.317 5 2.862.146 5 14.2317 5 10.301 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7		es General	69	8.468	€	17,413	\$,	' •	\$,	, •	••	25,881			
8 77.564 7,100,450 5		50 Low Annual-Low Winter	\$	27,401	⇔	56,346	\$,	•	\$,	' •	••	83,747			
8 877.640 5 </td <td></td> <td>40 Low Amnual-High Winter</td> <td>\$</td> <td>877,554</td> <td>\$</td> <td>,804,562</td> <td>\$</td> <td>,</td> <td>' \$</td> <td>\$</td> <td>1</td> <td>' •</td> <td>••</td> <td>2,682,116</td> <td></td> <td></td> <td></td>		40 Low Amnual-High Winter	\$	877,554	\$,804,562	\$,	' \$	\$	1	' •	••	2,682,116			
5 1754/15 7 15 17 55 5 5 5 7 15 17 15 5 16 7 15 17 15 16 17 15 17 15 17 15 17 15 17 15 16 17 15 16 17 15 17 15 16 17 15 17 15 17 15 17 15 17 15 16 17 15 16 17 15 16 17 16 17 16 17 17 12 16 17 17 12 16 17 16 17 16 17 16 17 16 17 16 17 16 16 17 <t< td=""><td></td><td>51 Med Armual-Low Winter</td><td>\$</td><td>142,917</td><td>€</td><td>293,888</td><td>\$</td><td>,</td><td>' \$</td><td>€</td><td>,</td><td>' •</td><td>••</td><td>436,805</td><td></td><td></td><td></td></t<>		51 Med Armual-Low Winter	\$	142,917	€	293,888	\$,	' \$	€	,	' •	••	436,805			
2 01/370 189.916 5 7 15 7 155 5 15 17 5 1 2 9 1 2 9 1		41 Med ArrnaH1lgh Winter	\$	867,648	\$,784,192	\$,	' \$	€9	,	' •	•	2,651,840			
2 266,714 5 5 5 5 5 77,155 5 77,155 5 77,155 5 77,155 5 77,155 5 77,155 5 77,155 5 77,155 5 77,155 5 77,155 5 77,165 5 77,165 5 77,165 5 77,165 5 77,165 5 77,165 5 77,165 5 77,185 5 77,185 5 77,185 77,185 5 77,185 77,185 77,185 77,185 77,185 77,185 77,185 77,185 77,185 77,239 5 77,239 5 77,239 5 77,239 5 77,219 5 77,219 5 77,219 5 77,219 5 77,219 5 77,219 5 77,219 5 77,219 5 77,219 5 77,219 5 77,219 5 77,219 5 77,219 5 77,219 5 77,219 <td></td> <td>52 High Annuat-Low Winter</td> <td>\$</td> <td>91,870</td> <td>€</td> <td>188,916</td> <td>\$</td> <td>,</td> <td>, •</td> <td>€9</td> <td>,</td> <td>' •</td> <td>••</td> <td>280,786</td> <td></td> <td></td> <td></td>		52 High Annuat-Low Winter	\$	91,870	€	188,916	\$,	, •	€9	,	' •	••	280,786			
5 4/2.34 6/3/01 5 5 5 5 5 5 5 12,341 5 2/2.268 5 6/3/12 5 5 5 5 7/155 5 7/155 5 2/30/4 5 3/3/12 5 5 5 5 7 7/155 5 4/15.041 8/640.02 5 5 5 5 5 7/125 5 4/15.5041 8/546.02 5 5 5 5 6 7/125 5 4/317.515 5 5 5 5 5 6 7/235 5 157/260 5 3/23.755 5 5 5 7/35 5 1/17.203 5 157/260 5 3/23.755 5 5 5 7/31 5 1/17.203 5 1/17.203 5 1/17.203 5 5/110% 5 5/110% 5 5/110% 5 5/110% 5 5/110% 5 5/110% 5 5/110% 5 5/110% 5/		42 High Annual-High Winter	\$	286,314	€	588,762	\$,	' \$	€	,	، د	••	875,075			
5 2.22:08 5 6:3.06 5 5 5 5 5 5 5 5 5 5 5 77,155 5 71,1755 5 71,1755 5 71,17		on-Grandfathered 150 Low Annual-Low Winter	\$	4,234	€	8,707	\$,	' \$	€	•	، د	••	12,941			
5 25.244 5 51.911 5 5 5 77,155 5 2.397 5 384.722 5 5 5 5 7 </td <td></td> <td>on-Grandfathered 140 Low Amnual-High Winter</td> <td>\$</td> <td>22,528</td> <td>⇔</td> <td>46,326</td> <td>\$</td> <td>,</td> <td>' \$</td> <td>\$</td> <td>,</td> <td>, •</td> <td>••</td> <td>68,854</td> <td></td> <td></td> <td></td>		on-Grandfathered 140 Low Amnual-High Winter	\$	22,528	⇔	46,326	\$,	' \$	\$,	, •	••	68,854			
5 137/004 5 384/72 5 5 5 5 5 5 5 5 5 5 5 71,827 5 4,155,941 5 9,4928 5 5 5 5 5 7,4723 5 4,155,941 5 8,346,082 5 5 5 5 4,1723 5 4,1723 5 4,1723 5 7,827 5 4,1723 5 1,1725 5 1,1725 5 5 4,1723 5 5 1,1725 5 1,1725 5 5 5 5 5 1,1725 5 </td <td></td> <td>on-Grandfathered 151 Med Annual-Low Winter</td> <td>\$</td> <td>25,244</td> <td>⇔</td> <td>51,911</td> <td>€?</td> <td>,</td> <td>' \$</td> <td>€</td> <td>,</td> <td>' ~</td> <td>••</td> <td>77,155</td> <td></td> <td></td> <td></td>		on-Grandfathered 151 Med Annual-Low Winter	\$	25,244	⇔	51,911	€?	,	' \$	€	,	' ~	••	77,155			
\$ 2.397 \$ 4,928 \$ - 5 \$ 5 \$ 7,325 \$ 4,155,941 \$ 8,546,082 \$ - 5 \$ - 5 \$ 147,229 \$ 4,155,941 \$ 8,546,082 \$ - 5 \$ - 5 \$ 147,229 \$ 1,572,568 \$ 3,233,755 \$ - 5 \$ - 5 \$ 147,229 \$ 1,572,568 \$ 3,233,755 \$ - 5 \$ - 5 \$ 01,339 \$ - 5 \$ 282,188 \$ 539,151 \$ - 5 \$ - 5 \$ - 5 \$ 01,339 \$ - 5 \$ 282,188 \$ 539,151 \$ - 5 <td></td> <td>on-Grandfathered 141 Med Ammal-High Winter</td> <td>\$</td> <td>187,094</td> <td>⇔</td> <td>384,732</td> <td>69</td> <td>'</td> <td>, \$</td> <td>€</td> <td>•</td> <td>' •</td> <td>•</td> <td>571,827</td> <td></td> <td></td> <td></td>		on-Grandfathered 141 Med Ammal-High Winter	\$	187,094	⇔	384,732	69	'	, \$	€	•	' •	•	571,827			
\$ 45.172 \$ 99.058 \$ - \$ - \$ - \$ 147,229 \$ 4,155,941 \$ 8,546,082 \$ - <td>-</td> <td>on-Grandfathered 152 High Annual-Low Winter</td> <td>\$</td> <td>2,397</td> <td>€</td> <td>4,928</td> <td>\$</td> <td>,</td> <td>•</td> <td>€</td> <td>,</td> <td>' </td> <td>~</td> <td>7,325</td> <td></td> <td></td> <td></td>	-	on-Grandfathered 152 High Annual-Low Winter	\$	2,397	€	4,928	\$,	•	€	,	' 	~	7,325			
\$ 4,155,941 \$ 8,546,082 \$ - \$ 5<	-	on-Grandfathered 142 High Amwat-High Winter	\$	48,172	⇔	99,058	€9	,	' •	69	,	' •	~	147,229			
\$ 4,155,941 \$ 8,546,062 \$ - \$ 5 \$ 4,966,323 \$ - \$ 157,768 \$ 3,233,755 \$ - \$ 5 \$ 4,066,323 \$ - \$ 5 \$ 4,066,323 \$ - \$ - \$ 5 \$ 4,066,323 \$ - \$ - \$ 5 \$ 157,768 \$ 3,233,755 \$ - \$ 5 \$ - \$ 5 \$ 4,066,323 \$ - \$ - \$ 5 \$ 001,339 \$ - \$ - \$ 5 \$ 001,339 \$ - \$ - \$ 5 \$ 001,339 \$ - \$ - \$ 5 \$ 001,339 \$ - \$ - \$ 5 \$ 001,339 \$ - \$ - \$ 5 \$ 001,339 \$ - \$ - \$ 5 \$ 001,339 \$ - \$ - \$ 5 \$ 001,339 \$ - \$ - \$ 5 \$ 001,339 \$ - \$ - \$ 5 \$ 001,339 \$ - \$ 5 \$ 001,339 \$ - \$ - \$ 5 \$ 001,339 \$ - \$ 5 \$ 001,339 \$ - \$ 5 \$ 001,339 \$ - \$ 5 \$ 001,339 \$ - \$ 5 \$ 001,339 \$ - \$ 5 \$ 001,339 \$ - \$ 5 \$ 001,339 \$ 001,339 \$ 001,339 \$ 001,													ŀ				
\$ 1572,568 \$ 3,233,755 \$ 5 \$ 5 \$ 4,806,323 \$ - 5 \$ 4,806,323 \$ - 5 \$ 2,09,031 \$ - 5 \$ - 5 \$ 6,09,031 \$ - 5 \$ - 5 \$ 6,09,031 \$ - 5 \$ - 5 \$ 6,09,031 \$ - 5 - 5 \$ - 5 - 5 - 5 5 - 5 - 5 5 - 5 - 5 5 - 5 5 - 5 - 5 5 - 5 - 5 - 100 0 - 5 - 5 - 100 0 - 5 - 5 - 100 0 - 5 - 5 - 100 0 - 5 - 5 - 100 0 - 5 - 5 <td></td> <td>OTAL</td> <td>\$</td> <td>4,155,941</td> <td>₩ •••</td> <td>,546,082</td> <td>€9</td> <td>•</td> <td>, ∽</td> <td>69</td> <td>,</td> <td>•</td> <td>•</td> <td>12,702,023</td> <td></td> <td></td> <td></td>		OTAL	\$	4,155,941	₩ •••	,546,082	€9	•	, ∽	69	,	•	•	12,702,023			
\$ 157.268 \$ 3.233.755 \$ 5 \$ 5 \$ 5.2138 \$ 5.323.755 \$ 5.309,031 \$ 5 \$ 257.794 \$ 530,116 \$ 5 \$ 5 \$ 787,910 \$ 107,515 \$ 100,005 \$ 100,515 \$ 100,005 \$ 100,005 \$ 107,515 \$ 100,005													•				
\$ 262.188 5 359.151 \$ 5 5 5 5 6 601.339 \$ 5 5 801.339 \$ 5 5 5 801.339 \$ 5 5 801.339 \$ 5 5 801.339 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 787.910 \$ 5 5 5 787.910 \$ 5 5 5 5 5 5 </td <td></td> <td>tesidential</td> <td>\$</td> <td>1,572,568</td> <td></td> <td>3,233,755</td> <td>ŝ</td> <td>,</td> <td>, \$</td> <td>\$</td> <td>,</td> <td>' •</td> <td>\$</td> <td>4,806,323</td> <td>÷</td> <td>•</td> <td>A (</td>		tesidential	\$	1,572,568		3,233,755	ŝ	,	, \$	\$,	' •	\$	4,806,323	÷	•	A (
\$ 2.07/516 \$ 177,515 \$ 5 5 5 5 5.020,013 \$ 787,910 \$ 78,910,910 <		ALES HLF CLASSES	6	262,188	€	539,151	€9	•	•	•		' 	₩ (801,339	•	•	به و
\$ 257,794 \$ 530,116 \$ 5 \$ 5 \$ 787,910 \$ - \$ 97,421 \$ - \$ 97,421 \$ - \$ 10,001 \$ 10,001 \$ 10,001 \$ 10,001 \$ 10,001 \$ 10,001 \$ 10,001 \$ 10,001 \$ 10,001 \$ 10,001 \$ 10,001 \$ 10,001 \$ 10,000		ALES LLF CLASSES	\$	2,031,518	⇔	1,177,515	€	•	' \$	••	,	, ,	5	6,209,031	÷ •	•	÷ •
\$ 257,794 5 30,116 5 5 5 5 7 7 7		Ion-Grandfathered HLF CLASSES	÷	31,875	\$	65,546	€	•	, •	69	•	' •	6	97,421	به	•	به ا
Remaining Load Remaining Load Remaining Load Joad Rank WNINTER PR CumPR No Off Peak Rank WW 3545,043 5 51,10% 2,450% 7,939% 3,545,043 5 4,005 17,428 5,837,905 5 1		Ion-Grandfathered LLF CLASSES	€	257,794	€	530,116	ю	,	' \$	\$	•	' •	₽	787,910	\$	•	\$
Remaining Load Remaining Load Remaining Load Remaining Load Remaining Load No Off Peak Rank WW Joad Rank WMIER PR CumPR No Off Peak Rank WW 5337.905 5 51.10% 2.450% 7.939% 5.545.043 5 5 %W %W 5337.905 3 84.15% 0.496% 17.293% 5.937.315 1 1 1 1 1 1 %W																	
Remaining Load Ramaining Load Remaining Load Remaining Load Remaining Load Remaining Load Remaining Load NU Off Peak Rank WM J.545.043 5 511.10% 2.450% 7.339% 3.545.043 5 3.545.043 5 3.545.043 5 5 100.00% 5 3.545.043 5 5 5 100.00% 1.436% 7.7339% 3.545.043 5 5 5 5 5 3.355.043 5 5 3.337.043 5 5 3.357.043 5 5 5 3.357.043 5 5 3.357.043 5 5 3.357.043 5 5 3.357.043 5 5 3.357.043 5 5 3.357.043 5 5 3.357.043 5 5 3.357.043 5 5 3.357.043 5 5 3.357.043 5 5 3.466.710 2 2 4 4 4 4 4 4 4 4 4																	
Remaining Load Rank %WNTER PR CumPR Remaining Load Rank %W J.545.043 5 51.10% 2.456% 7.939% 3.545.043 5 %W J.545.043 5 51.10% 2.456% 7.939% 3.545.043 5 %W J.545.043 5 51.10% 2.456% 7.939% 3.545.043 5 %W J.545.043 5 5.100% 14.856% 32.780% 6.937.315 1 1 5.906.710 2 84.15% 4.905% 17.428% 5.837.905 5 3 4.917.003 4 4.817.003 1 1 100.00% 14.856% 32.780% 94.082% 5.837.315 1 1 1 4.817.003 1 1 1.7224% 5.489% 94.082% 2.695.093 6 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1		roportional Responsibility (PR) Allocator															
Load Rank %WITER PR CumPR No Off Peak Rank %WI 3.545.03 5 51.10% 2.450% 7.939% 3.545.043 5 5.337.905 5 5.337.905 5 5.337.905 5 5.337.905 5 5.337.905 5 5.337.905 5 5.337.905 5 5.337.905 5 5.337.905 5 5.337.905 5 5.337.905 5 5.337.905 5 5.337.905 5 5.337.305 5 3 4.417.002 5.489% 34.48% 7.7324% 5.066.710 2 4.417.002 4 5.489% 94.082% 5.489% 94.082% 5.489% 94.082% 5.489% 94.082% 5.996.710 2 2 2 1			Remaining									Remaining Lo	pad				
3.545,043 5 51,10% 2.450% 7.939% 3.545,043 5 5.837,905 3 84,15% 4.905% 17,428% 5.837,905 5 5.837,905 3 84,15% 4.905% 17,428% 5.837,905 5 5.837,905 3 84,15% 4.905% 17,428% 5.837,905 5 5.906,710 2 85,14% 0.486% 17,924% 5,906,710 2 4.817,005 4 6,44% 0.486% 17,924% 5,906,710 2 2.995,093 6 38,85% 2.198% 5,499% 94,082% 2,695,093 6 2.865,033 18 1.317% 0.103% 0.199% 4,817,005 4 146,303 11 2.11% 0.133% 0.189% 4,817,005 4 175,490 10 2.53% 0.042% 0.231% 5,918% 389,361 1 26,6% 1.60% 3.231% 5,918% 33,214,664 2.56% 1.60% 3.21% 5,918% 33,214,664 3.2780% 100.000% 29,739,070			Load	Rank	∿%	VINTER	Ъ	~	CumPR			No Off Peak		Rank	%۷	VINTER	
5,837,905 3 84,15% 4,905% 17,428% 5,837,905 3 6,837,315 1 1000% 14,856% 3,2780% 6,937,315 1 1 5,906,710 2 85,14% 0,466% 17,428% 5,337,905 3 4 4,817,005 4 69,44% 4,584% 12,524% 5,906,710 2 4,817,005 4 6,346% 12,524% 5,695,093 6 2,895,093 6 38,85% 2,188% 5,489% 94,082% 2,695,093 6 2,895,033 6 38,85% 2,188% 0,139% 6,940% 4,817,005 4 146,303 11 1,322% 0,189% 94,082% 2,695,093 6 21,860 10 2,53% 0,189% 0,21% 5,91% 5,91% 21,860 10 2,53% 0,026% 0,24% 3,21% 5,91% 21,860 10 2,53% 0,33% 6 3,31% 5		NON	3.545.043	5		51.10%	2	450%	7.9399	0		3,545,04;	 m	5		51.10%	
6.937,315 1 100.00% 14.856% 32.780% 6.937,315 1 1 5.906,710 2 85.14% 0.496% 17.924% 5.906,710 2 5.906,710 2 5.906,710 2 5.906,710 2 8.917,905 4 4.917,005 4 5.489% 94.082% 5.906,710 2 2 95.14% 0.496% 17.524% 5.906,710 2 2 95.14% 0.496% 1.553% 4.917,005 4 17 2 962,303 6 38.85% 2.198% 5.489% 94.082% 2.695,093 6 36.53% 16.07% 0.234% 0.534% 0.189% 175,400 12 0.193% 0.199% 5.918% 0.234% 5.918% 5.918% 3.2736% 5.918% 5.918% 3.2739,070 3.2736% 5.918% 5.918% 5.918% 5.918% 5.918% 5.918% 5.918% 5.918% 5.918% 5.918% 5.918% 5.918% 5.918% 5.918% 5.739,070 5.739,070 5.		DEC	5.837.905	0		84.15%		905%	17.4289			5,837,90	5	e		84.15%	
5.906.710 2 85.14% 0.496% 17.924% 5.906.710 2 4.817,005 4 69.44% 4.584% 12.523% 5.908.710 2 4.817,005 4 69.44% 4.584% 12.523% 5.908.710 2 4.817,005 4 69.45% 5.489% 94.082% 5.908.093 6 962.303 8 13.87% 10.32% 0.169% 4.817.005 4 146.303 11 2.11% 0.163% 0.189% 4.082% 2.695.093 6 27.180 10 2.53% 0.042% 0.231% 5.91% 2.695.093 6 27.180 10 2.33% 0.042% 0.21% 5.91% 5.918% 27.180 1.700.250 7 2.566% 1.684% 3.291% 5.918% 3.3214,664 3.321% 5.918% 3.291% 5.918% 29.739,070		IAN	6.937.315	-		100.00%	-	.856%	32.780%			6,937,31	ß	-		100.00%	
4,817,005 4 69,44% 4.584% 12.523% 4.817,005 4 2,995,033 6 3.85% 2.189% 5.489% 94.082% 2.895,033 6 962,330 8 1.387% 1.032% 1.606% 2.695,033 6 146,303 11 2.11% 0.103% 0.189% 34.082% 2.695,033 6 175,490 10 2.33% 0.042% 0.231% 3.231% 5.918% 6 21,860 10 2.53% 0.028% 0.028% 5.918% 5.918% 389,361 9 2.66% 1.684% 3.291% 5.918% 5.918% 33,214,664 3.3214% 3.291% 5.918% 5.913% 29,739,070		FEB	5.906.710	.0		85.14%		.496%	17.9249	.0		5,906,71	0	2		85.14%	
2,095,093 6 38,85% 2.198% 5,489% 94.082% 2,695,093 6 962,330 8 13,17% 1,032% 1,600% 2,695,093 6 148,303 11 2.11% 0,132% 0,199% 2,695,093 6 175,490 10 2.14% 0,132% 0,199% 2,695,093 6 175,490 10 2.53% 0,042% 0.231% 2,138 3,14% 21,860 12 0,337% 0,026% 0,026% 0,254% 3,291% 5,918% 3,291% 5,918% 3,214,664 2,32,700 2,32,700 29,739,070 29,739,070		MAR	4,817,005	4		69.44%		.584%	12.5239			4,817,00	5	4		69.44%	
962.330 8 13.87% 1.032% 1.606% 145,033 11 2.11% 0.1693% 0.189% 145,490 10 2.53% 0.042% 0.231% 21,860 12 0.323% 0.026% 0.231% 33,214,664 7 25.66% 0.323% 0.517% 5.918% 33,214,664 7 25.66% 3.2780% 100.000% 5.918%		APR	2,695,093	9		38.85%		.198%	5.4899		.082%	2,695,09		9		38.85%	
146,303 11 2.11% 0.163% 0.189% 115,490 10 2.55% 0.042% 0.231% 21,860 12 2.55% 0.026% 0.026% 389,361 9 5.61% 0.343% 0.574% 1,780,250 7 25.66% 1.684% 3.291% 33,214,664 32.780% 100.000% 5.918%		MAY	962,330	80		13.87%		.032%	1.6069								
175,490 10 2.53% 0.042% 0.231% 21,860 12 0.33% 0.042% 0.26% 399,361 9 5.61% 0.343% 0.51% 1,780,250 7 25.66% 1.684% 3.291% 5.918% 33,214,664 7 25.66% 1.684% 3.291% 5.918%		NUL	146,303	£		2.11%		.163%	0.1899								
21,860 12 0.32% 0.026% 0.026% 399,361 9 5.61% 0.343% 0.574% 1,780,250 7 25.66% 1.684% 3.291% 5.918% 33,214,664 7 22.66% 3.2780% 100.000%		JUL	175,490	10		2.53%		.042%	0.2319	.0							
389,361 9 5.61% 0.343% 0.574% 1,780,250 7 25,86% 1.684% 3.291% 5.918% 33,214,664 32.780% 100,000%		AUG	21,860	12		0.32%		.026%	0.0265								
1,780,250 7 25,86% 1.684% 3.291% 5.918% 33,214,664 32.780% 100,000%		SEP	389,361	0		5.61%		.343%	0.5749								
33,214,664 32.780% 100.000%		001	1,780,250	~		25.66%		.684%	3.2919	_	.918%						
		TOTAL	33,214,664				32	.780%	100.000%			29,739,07	Б				

8.925% 18.414% 33.766% 18.910% 13.509% 6.475%

2.450% 4.905% 0.496% 4.584% 6.475%

CumPR

Ы

.

100.000%

.

Page 2 of 7

...

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations <u>REMAINING COSTS</u>

1 REMAINING COMMODITY COSTS BY CLASS	(SS	_													
	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
5 TOT REMAINING COMMODITY	\$ 2,612,396 \$	4,405,042	\$ 5,329,129 \$	4,462,911 \$	3,538,238 \$	2,381,028 \$	772,328 \$	131,503 \$	152,530	\$ 24,932	\$ 330,486 \$	\$ 1,524,652	\$ 25,665,177	\$ 22,728,745	\$ 2,936,431
	\$ 959,293 \$	1,605,354 \$	1,936,859 \$	1.618,912 \$	1,294,140 \$	880,852 \$	289,427 \$	44,087 \$	24,702	\$ 4,038	\$ 119,025 \$	\$ 577,162	\$ 9,353,851	\$ 8,295,411	1,058,441
0 Res General 10 G50 Low Annual-Low Winter	\$ 20.141 \$	28,594 5	5 34334 \$	35,502 4	8,869 \$	6.488 \$	1,906 \$	695 \$	1.921	5 314 3 5 443 6	5 1,191 5 5 5 034 6	3,884	\$ 68.458 < 177.305	\$ 58,547 \$ 162,040	5 9,911 5 15,255
	\$ 536,957 \$	900,558 \$	1.085.973 \$	903,483 \$	726,458 \$	493,209 \$	163.939 \$	25,010 \$	7,636	\$ 1,248	\$ 66,685 \$	324,260	\$ 5.235,416	\$ 4,646,638	588,778
12 G51 Med Annual-Low Winter 13 G41 Med Annual Heat Mideo	5 82,980 5 c c42 748 c	129.022 \$	5 155,334 \$	140,821 \$	104,296 \$	78,129 \$	23,250 \$		8,185	\$ 1,338 1,338	\$ 15.850 \$	40,911	\$ 790,431	\$ 690,582	99,848
	\$ 176,897 \$	294.504 \$	355.085 \$	297.898 \$	237.613 \$	162.894 \$	53,563 \$	9.627 \$	6.029	5 17/10 585	5 23164 5	105 940	\$ 1.724.199	\$ 1.524.891	5 199.307
	\$ 35,393 \$	107,732 \$	146,035 \$	116,064 \$	72,583 \$	10,070 \$	• • •		79,975	\$ 13,072			•	\$ 487,878	
16 Non-Grandfathered T50 Low AnnualLow Winter	\$ 8,855 \$	14,752 \$	17.791 \$	14,916 \$	11,907 \$	8.160 \$	2,681 \$		39	9 9	\$ 1,159 \$	5,310	\$ 86,047	\$ 76,380	
18 Non-Grandiativered 140 Low Annual-Ligh Winter 18 Non-Grandiathered 151 Med Annual-Low Winter	\$ 12.741 \$	219.686 S	23 706 5	21662 \$	41,/03 \$	28,414 \$	3,615 \$		711	471	\$ C19.5 \$	3 546		\$ 105 721	34,350
	\$ 137,577 \$	229,590 \$	276,838 \$	231.630 \$	185,234 \$	126,586 \$	41,773 \$	7,139 \$	943	154 5	\$ 17,716 \$	82,611	\$ 1.337.791	\$ 1,187,454	-
20 Non-Grandfathered 152 High Annual-Low Winter 21 Non-Grandfathered 142 High Annual-High Winter	\$ 59,956 \$	101,839 \$	5 - \$ 123,366 \$	102,951 \$	- \$ 81,654 \$	- \$ 54,352 \$	- \$ 15,814 \$, , •• ••	452 5.453	5 74 3 8 91 3	\$ 405 \$ \$ 4,746 \$	313 34,281	\$ 1,243 \$ 585,284	\$ 524,119	5 1.243 61,165
22 23 TOTAL	\$ 2,612,396 \$	4,405,042 \$	5	4	3,5	2,381,028 \$	772,328 \$	131,503 \$	152,530	\$ 24,932	\$ 330,486 \$	1,5	\$ 25,665,177		\$ 2,936,431
24 25. Residential	¢ DRG 757 ¢	1 616 367 \$	1 nen 1en		1 202 010	4 010 L00	÷	÷ 001 FF			9 910 0CF 4	501 040	0100000	0 252 053	1060 257
	\$ 280,017 \$	452.120 \$			365,110 \$	261,211 \$		44,782 \$	16,922	5 2,766 9	\$ 120.216 \$	0 146.851		\$ 2,377,523	
27 SALES LLF CLASSES 28 Non-Grandfathered HI F CI ASSES	\$ 1,116,097 \$	1,918,990 \$	2,330,188 \$	1,934,591 \$	1,533,711 \$	1,002,951 \$		51,121 \$	98,439	\$ 16,091	\$ 134,894 §	652,108	\$ 11,118,881 * 707 FEB	\$ 9,836,529 • 102,101	\$ 1,282,353 F 25,453
	\$ 228,433 \$	383,127 \$			308,591 \$		0,190 \$	8,660 \$	7,172	\$ 1,172 9	\$ 26.377 \$	9,100 135,478	\$ 2,224,494	\$ 1,978,636	245,858
31 32 REMAINING PIPELINE DEMAND															
33 34	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Anr-08	Mav-07	Jun-07	.lul-07	A110-07	Sen-07	Oct-07	TOTAL	WINTER	SUMMER
35										2					
36 MONTHLY PR DEMAND % 37	7.939%	17.428%	32.780%	17.924%	12.523%	5.489%	1.606%	0.189%	0.231%	0.026%	0.574%	3.291%	100.000%	94.082%	5.918%
38 Res Heat	\$ 124,173 \$	272,592 \$	512.710 \$	280,348 \$	195,867 \$	85,846 \$	25,125 \$	2,961 \$	3,619 \$	\$ 411 5	\$ 210.8	51,469	\$ 1,564,100	\$ 1,471,537	92
		1,476 \$	2,776 \$	1,518 \$	1,060 \$				20	2	\$ 49 \$	5 279		\$ 7,967	
40 G50 Low Annual-Low Winter 41 G40 Low Annual Litch Wiston	5 2,175 5 5 80,660 6	4,775 \$	8,982 \$	4,911 \$	3.431 \$				63	2 000	5 157 1 F E 037 4	902		\$ 25,780 * Pre 21	1,622
	\$ 11,346 \$	24,908 \$	46.848 \$	25.616 \$	17.897 \$				331	38 23	5 3,037 4	4.703	\$ 142,917	\$ 134,459	
43 G41 Med Annual High Winter		151,214 \$	284,414 \$	155,517 \$	108,653 \$			1,643 \$	2,008	\$ 228	\$ 4,980 \$	28,551	\$ 867,648	\$ 816.301	LC)
44 G52 High Armual-Low Winter 45 G43 triat Armust Liter Witane	5 7,293 5	16,011 \$	30,115 \$	16,467 \$	11,505 \$		1,476 \$		213	5 24	527 5 527 5	3.023	\$ 91,870 • 786,344	\$ 86.433 * 260.270	5,437 5,437
	\$ 336 \$	738 \$	1,388 \$	759 \$	530 \$	232 \$	68 68	\$ 8 \$	10		24 5 24 5	139	•	\$ 3,983	5 251
	\$ 1,788 \$	3,926 \$	7,385 \$	4.038 \$	2,821 \$				22	9	\$ 129 \$	5 741	\$ 22,528	\$ 21,195	
	\$ 2,004 \$	4,400 \$	8.275 \$	4,525 \$	3,161 \$	1.386 \$	406 \$	48 \$	28	~ ç	5 145 5 145 5	631	\$ 25,244 \$ 487,004	\$ 23,750 * 176,022	1.494
49 Non-Grandramered 141 Med Annual-High Winner 50 Non-Grandfathered 152 High Annual-Low Winner	\$ 14,000 \$	418 \$	786 5	430 5	300 \$	132 \$	38 38	504 55	6 6 1	64 	5 1.074 5	101'0 1	\$ 2.397	\$ 2.255	
	\$ 3.824 \$	8,395 \$	15,791 \$	8.634 \$	6,032 \$	2,644 \$	774 \$	91 \$	11,	5 13	\$ 276 \$	1,585	\$ 48,172	\$ 45,321	2,851
53 TOTAL	\$ 329,937 \$	724,299 \$	1,362,314 \$	744,909 \$	520,435 \$	228,101 \$	66,759 \$	7,869 \$	9,617	\$ 1,091 \$	\$ 23,853 \$	136,758	\$ 4,155,941	\$ 3,909,994	\$ 245,947
	\$ 124,845 \$	274.068 \$	515,486 \$	281,866 \$	196,928 \$		25,261 \$	2,977 \$	3,639	5 413 3	\$ 9,026 \$	51,748		\$ 1,479,504	5 93,064
56 SALES HLF CLASSES			85,945 \$	46.994 \$	32,833 \$	14,390 \$		496 \$	607 9	\$ 69 G	\$ 1.505 \$	8,628 6,628	\$ 262,188 * 2,031,516	\$ 246,672	5 15,516 120,224
	\$ 2,531 \$	5,555 \$	10,449 \$	5,713 \$	3.992 \$		512 \$	9040 2	144		\$ 183 \$	1,049	\$ 31,875	\$ 29,988	1,886
59 Non-Grandfathered LLF CLASSES	\$ 20.466 \$	44,928 \$	84,505 \$	46,207 \$	32,283 \$	14,149 \$	4,141 \$	488 \$	265	\$ 68	\$ 1,480 \$	8,483	\$ 257,794	\$ 242,538	5 15,256

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations REMAINING COSTS

1 PEAKING AND STORAGE DEMAND

	/n-AON	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
4 5 MONTHLY PR DEMAND %	7.939%	17.428%	32.780%	17.924%	12.523%	5.489%	1.606%	0.189%	0.231%	0.026%	0.574%	3.291%	100.000%	94.082%	5.918%
7 Res Heat	\$ 255,343 \$	560.545 \$	\$ 1.054.314 \$	576.495 \$	402.772 \$	176.530 \$	51.666 \$	£.090.8	5 6443	845 3	18 460	\$ 105.839	\$ 3.216.342	\$ 3.025.999	\$ 190.342
8 Res General	\$ 1,382 \$	3,035 \$	5.708 \$	3.121 \$	2.181 \$	3 956	280 \$	SEE	40	2	100	\$ 573	\$ 17.413	\$ 16.383	\$ 1.031
10 G50 Low Annual-Low Whiter	\$ 4,473 \$	9,820 \$	18,470 \$	10,099 \$	7,056 \$	3.093 \$	902 \$	107 \$	130 5	15.5	323	\$ 1.854	\$ 56.346	\$ 53.012	\$ 3.335
11 G40 Low Annual High Whiter	\$ 143,263 \$	314,500 \$	591,534 \$	323,449 \$	225,980 \$	99.044 \$	28,988 \$	3,417 \$	4.176 \$	474 5	10.357	\$ 59.382	\$ 1.804.562	\$ 1.697.768	\$ 106,793
12 G51 Med Annual-Low Witner	\$ 23,332 \$	51,219 \$	96,336 \$	52,676 \$	36,803 \$	16,130 \$	4.721 \$	556 \$	680 \$	12	1.687	\$ 9,671	\$ 293,888	\$ 276,496	\$ 17,392
13 G41 Med Annual-High Winter	\$ 141,645 \$	310,950 \$	584,856 \$	319,798 \$	223,429 \$	97,926 \$	28,660 \$	3,378 \$	4,129 \$	469 5	10,240	\$ 58,712	\$ 1,784,192	\$ 1,678,604	\$ 105,588
14 G52 High Annual-Low Winter	\$ 14,998 \$	32,924 \$	61,927 \$	33,861 \$	23,657 \$	10,369 \$	3,035 \$	358 \$	437 \$	50	1,084	\$ 6,217	\$ 188,916	\$ 177,736	\$ 11,180
15 G42 High Amnual-High Witner	\$ 46,741 \$	102,610 \$	192,996 \$	105,529 \$	73,729 \$	32,314 \$	9,458 \$	1.115 \$	1,362 \$	155 \$	3,379	\$ 19.374	\$ 588,762	\$ 553,919	\$ 34,843
16 Non-Grandfathered T50 Low Annual-Low Winter	\$ 691 \$	1,517 \$	2,854 \$	1.561 \$	1,090 \$	478 \$	140 \$	16 \$	20	2	20	\$ 287	\$ 8,707	\$ 8,191	\$ 515
17 Non-Grandfathered 140 Low Annual-High Whiter	\$ 3,678 \$	8,074 \$	15,185 \$	8,303 \$	5,801 \$	2.543 \$	744 \$	88 \$	107 \$	12	266	\$ 1,524	\$ 46,326	\$ 43,584	\$ 2.742
18 Non-Grandfathered T51 Med Annual-Low Whiter	\$ 4,121 \$	9,047 \$	17,016 \$	9,304 \$	6,501 \$	2,849 \$	834 \$	38	120 \$	14 \$	298	\$ 1,708	\$ 51.911	\$ 48,839	\$ 3,072
19 Non-Grandfathered 141 Med Annual-High Winter	\$ 30,544 \$	67,051 \$	126,115 \$	68,959 \$	48,179 \$	21,116 \$	6,180 \$	728 \$	890 \$	101 \$	2.208	\$ 12,660	\$ 384,732	\$ 361,964	\$ 22.768
20 Non-Grandfathered 152 High Annual-Low Winter	\$ 391 \$	859 \$	1,615 \$	883 \$	617 \$	270 \$	\$ 62	\$ 6	11 \$	-	28	\$ 162	\$ 4,928	\$ 4,637	\$ 292
21 Non-Grandfathered 142 High Annual-High Whiter	\$ 7,864 \$	17,264 \$	32,471 \$	17.755 \$	12,405 \$	5,437 \$	1,591 \$	188 \$	229 \$	26 \$	269	\$ 3,260	\$ 99,058	\$ 93,196	\$ 5,862
23 TOTAL 24	\$ 678.466 \$	1,489,415 \$	\$ 1,489,415 \$ 2,801,398 \$ 1,531,795	1,531,795 \$	1,070,199 \$	469,055 \$	137,280 \$	16,181 \$	19,776 \$	2,244 \$	49,050	\$ 281,223	\$ 8,546,082	\$ 8,040,327	\$ 505,754
25 Residential	\$ 256,725 \$	563,580 \$	1.060.022 \$	579.616 \$	404.953 \$	177.486 \$	51.946 \$	6.123 \$	7.483 \$	849 \$	18,560	\$ 108.412	\$ 3.233.755	69	\$ 191.373
26 SALES HLF CLASSES	\$ 42,803 \$	93,963 \$	176.733 \$	96,637 \$	67,516 \$	29,592 \$	8,661 \$	1.021 \$	1.248 \$	142 \$	3,094	\$ 17.742	\$ 539,151	\$ 507.244	\$ 31,907
27 SALES LLF CLASSES	\$ 331,649 \$	728,059 \$	1,369,386 \$	748.776 \$	523,137 \$	229.285 \$	67.106 \$	\$ 606.2	9.667	1.097	23,977	\$ 137.468	\$ 4,177,515	•	\$ 247.224
28 Non-Grandfathered HLF CLASSES	\$ 5,204 \$	11,423 \$	21,486 \$	11,748 \$	8,208 \$	3,598 \$	1.053 \$	124 \$	152 \$	17 \$	376	\$ 2.157	\$ 65.546	•	\$ 3.879
29 Non-Grandfathered LLF CLASSES	\$ 42,085 \$	92,389 \$	173,771 \$	95,018 \$	66,385 \$	29,096 \$	8,516 \$	1.004 \$	1.227 \$	139 \$	3,043	\$ 17,444	\$ 530,116	•••	\$ 31.372

30 REMAINING CAPACITY RELEASE COSTS BY CLASS 31

3000 1120% 230% 17.20% 2.00% 1.20% 0.20% 0.21% 0.00%	32	Nov-07		Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
MONTEL/DEMAND(3, 1248, 1248, 1248, 1248, 1248, 1248, 1248, 1666, 0196, 0216, 0216, 0216, 0216, 0216, 0106, 0214, 0006, 0214, 0006, 0106, 0	33		į														
0 0	34 MUNTHLY DEMAND % 35	1.935	%6	17.428%	32.780%	17.924%	12.523%	5.489%	1.606%	0.189%	0.231%	0.026%	0.574%	3.291%	100.000%	94.082%	
30 30<		• •>	÷	,	•9 •	•	, ,			5 '	• •	,	, ,	, ,	,	•	•
30 600 (a.h. vontation whete 5	37 Res General	•	••		• • •	•	1	•		· • •	· •/>	,	, ,	· •*)	,	•	•
0. 00000000000000000000000000000000000		۰ ج	69	,	• •	, ,	, 1	•		· •	,	'	, ,	1	,	•	•
0 0		•	69	رہ ی ۱		, ,	- 1 97	•		• •	, ,		, ,	, 69	,	•	•
11 Columnation 9 <t< td=""><th></th><td>, 2</td><td>\$</td><td>ودی ۱</td><td>• •</td><td>•</td><td>1</td><td>•</td><td></td><td>• • • •</td><td>ч ч</td><td>,</td><td>•</td><td>رہے۔ ۱</td><td>'</td><td>, ,</td><td>•</td></t<>		, 2	\$	ود ی ۱	• •	•	1	•		• • • •	ч ч	,	•	رہ ے۔ ۱	'	, ,	•
3. C 631/Hy/houndle/wite/ (Minimulation/wit		•	•>	,	•••	•		•		• • •	, ,	,	· • •		,	•	•
		, *>	\$	1	•	•		•	•	\$	•	1	•		,	•	•
44 Non-canditinent 180 (or Annall light) White 5		•	÷	,	\$,	•		,	•	\$ - \$	•		•		•	' ₽	••
45 Non-Gardialeneer 1 (10 Lew Annual-High Write 5 <td< td=""><th></th><td>•</td><td>\$</td><td>,</td><td>•</td><td>•</td><td>1</td><td></td><td></td><td>•</td><td>· •</td><td></td><td>•</td><td></td><td>,</td><td>•</td><td>•</td></td<>		•	\$,	•	•	1			•	· •		•		,	•	•
46 Non-Gandinature 15, Med Annel Low Write 5 - 5		•	69	, ,	•	•	-	,		•	• •	ر ی ۱	•	, ,	•	•	•
47 Non-Gardial field (11) Med Amaui High Write 5	46 Non-Grandfathered 151 Med Annual-Low Winter	۰ هم	\$			•	1	•	-	•	• •	,	ч	,	'	۰ ج	•
	47 Non-Grandfathered 141 Med Annual High Winter	' ج	÷	•	• •	•	•		- -	ک	•	,	•	, ,	'	, t	•
		' \$	••	1	•	•	•		•	د ۲	•		• •	שא י	'	' \$	م
		•	\$	-	• •	•	•	•	•	•	•		•	,	'	\$	••
	_																
		•	*	1	•	•	чэ ,		•	\$ · \$	ده	-	•	и)	,	، ډ	•
	52																
		•	÷	•••	••	•	, ,	•	•	• •	ب	,	•	-	•	, t	\$
		•	••	رہ ۱	•		1	•	,	• •	- 67	,	ب	وی	•	, \$	••
		•	69	, 1	•	-	1	•		•	,			رس ۱	'	' \$	•
		•	••	, 1	,	•		,		• •	, ,	,	•	,	•	•	••
59		, \$	••	, 1	•	•	-			\$ '	\$°	-	¢ 9	, 1	,	, \$	• •
	58																
69	23																
	60																

Page 3 of 7

.~...

Page 4 of 7

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations <u>REMAINING COSTS</u>

-	REMAINING INTERRUPTIBLE MARGINS BY	Y CLASS							
2									
e		Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	-un P

3	Nov-07	5	Dec-07	Jan-08		Feb-08	Mar-08		Apr-08	May-07		Jun-07	Jul-07	Au	Aug-07	Sep-07	Oct-07	TOTAL		WINTER	SUMMER
4 5 MONTHLY P&S Totat	7.9	7.939%	17.428%		32.780%	17.924%	12.523%	3%	5.489%		1.606%	0.189%	0.231%	%	0.026%	0.574%	3.291%		100.000%	94.082%	5.918%
7 Ren Heat 8 Res General 9 GSI Low Annual-liph Winder 10 GSI Low Annual-liph Winder 11 GSI Med Annual-liph Winder 12 GH Med Annual-liph Winder 13 GS2 High Annual-liph Winder 14 GR2 High Annual-liph Winder 15 Non-Gaandfathered T51 Low Annual-Low Winder 16 Non-Gaandfathered T51 Mod Annual-Low Winder 17 Non-Gaandfathered T51 Hob Annual-Low Winder 18 Non-Gaandfathered T51 Hob Annual-Low Winder 19 Non-Gaandfathered T31 Hob Annual-Low Winder 10 Non-Gaandfathered T31 High Annual-Low Winder 10 Non-Gaandfathered T31 High Annual-Low Winder 20 Sandfathered T31 High Annual-Low Winder 21 TOTAL 22 SALES LLF CLASSES 23 SALES LLF CLASSES 24 SALES LLF CLASSES 25 SALES LLF CLASSES 26 Non-Grandfathered LLF CLASSES 27 Non-Grandfathered LLF CLASSES 28 Non-Grandfathered LLF CLASSES	**	••••••••••••••••		***			•••••••••••••••••••••••••••••••••••••••	****		ຑຑຑຑຑຑຑຑຑຑຑຑຑຑຑ ຑຑຑ				•••••••••••••••••••••••••••••••••••••••					•••••••••••••••••		
20 REMAINING OFF SYSTEM REVENUES 31 32	Nov-07	-	Dec-07	Jan-08		Feb-08	Mar-08		Apr-08	May-07		Jun-07	70-lut	Au	Aug-07	Sep-07	Oct-07	TOTAL		WINTER	SUMMER
33 34 MONTHLY DEMAND % 36 Dee Loot	7.9. A	7.939%	17.428%	32.7	32.780% 	17.924%	12.523% ¢	₽ %E	5.489%	•	1.606%	0.189%	0.231%	*	0.026%	0.574%	3.291%		100.000%	94.082%	5.918%
	, w w w w w w w w w w w w w w w w w w w	*****					~~~~~~	*****************		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~											

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations REMAINING COSTS

REMAINING A&G BY CLASS

	Nov-07		Dec-07	Jan-08	Fe	Feb-08	Mar-08	ą	Apr-08	May-07	Jun-07	ŋ	Jul-07	Aug-07	Sep-07	-07	Oct-07	TOTAL		WINTER	SUMMER
1 MONTHLY DEMAND %	7.939%	%6	17.428%	32.780%		17.924%	12.523%		5.489%	1.606%	0.189%	%6	0.231%	0.026%		0.574%	3.291%	100.000%	%0(94.082%	5.918%
3 Res Heat 4 Rea General 5 G50 Low Annusi-Low Winter 6 G40 Low Annusi-Low Winter 6 G40 Low Annusi-Low Winter 7 G51 Med Annusi-Ligh Winter 8 G41 Mgh Annusi-Ligh Winter 9 G51 High Annusi-Ligh Winter 10 G42 High Annusi-Ligh Winter 11 Non-Cannadithered T50 Low Annusi-Ligh Winter 12 Non-Cannadithered T51 Low Annusi-Ligh Winter 13 Non-Cannadithered T51 Low Annusi-Ligh Winter 14 Non-Cannadithered T51 Low Annusi-Ligh Winter 15 Non-Cannadithered T51 Low Annusi-Ligh Winter 16 Non-Cannadithered T51 Head Annusi-Ligh Winter 16 Non-Cannaditahreed T42 High Annusi-Ligh Winter	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		· · · · · · · · · · · · · · · · ·	សសសសសសសសសសសស 	ស ស ស ស ស ស ស ស ស ស ស ស ស ស						«»»				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	•••••••••••••••••••••••••••••••					
10 19 19 20 Residential 21 SALES HLF CLASSES 22 SALES HLF CLASSES 23 Non-Grandfathered HLF CLASSES 24 Non-Grandfathered LLF CLASSES	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ 		• • • • • • • •	የ) የንቀን የአቀን የአቀን የአቀን የአቀን የአቀን የአቀን የአቀን			<u></u>	• • • • • • • • •		~~~~	<u> </u>	•••••••••••		\$\$ \$\$ \$\$ \$\$ \$\$ \$\$, , , , , , , , , , , , , , , , , , ,	
25 TOTAL REMAINING DEMAND COSTS BY CLASS BY MONTH 28 MONTHLY PR DEMAND % 7.939% 29 MONTHLY PR DEMAND % 7.939% 29 MONTHLY PR DEMAND % 7.939% 29 State least 7.939% 31 Ras least 7.939% 32 Res cleanert 5.705% 33 GSU tow Annual-High writer 5 34 GAI where mile low writer 5 35 GSI with Annual-Low writer 5 36 GAI where mile low writer 5 37 GSI sigh Annual-Low Writer 5 38 GAI thy Annual-Low Writer 5 39 Non-Grandfahreed TSU cow Annual-High writer 5 30 Non-Grandfahreed TSU cow Annual-High writer 5 31 Res least Annual-Low Writer 5 32 Non-Grandfahreed TSU work annual-High writer 5 33 Non-Grandfahreed TSU work annual-High writer 5 41 Non-Grandfahreed TSU work annual-High writer 5 42 Non-Grandfahreed TSU work annual-High writer 5 43 Non-Grandfahreed TSU work annual-High writer 5 44 Non-Grandfahreed TSU work annual-High writer 5 44 Non-Grandfahr	CLASS BY MG Nov-07 7.939% 5 379.515 5 2.055 5 2.055 5 2.055 5 2.055 5 2.055 5 45.397 5 45.3975557 5 45.3975575757575757575757575757575757575757		Dec.07 17.428% 17.428% 833.137 8.33.137 4.511 9.45.14 76.140 76.140 76.140 76.125 51.153 99.658 51.255 99.658 51.217 99.658 51.77 137.317 51.73 137.317 51.73	Jan-08 Jan-08 32.780% 32.780% \$ 1,567,024 \$ 8,484 \$ 8,484 \$ 9,2041 \$ 8,484 \$ 2401 \$ 143,184 \$ 2,201 \$ 143,184 \$ 2,401 \$ 143,184 \$ 2,221 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,401 \$ 2,521 \$ 2,401 \$ 2,525 \$ 2,525 \$ 1,555,508 \$ 1,555,508 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,355,578 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,525,578 \$ 2,526	 B C 	Feb-08 17.924% 866.844 866.844 17.924% 866.844 15.011 78.293 78.293 78.293 15.011 78.293 78.293 78.293 78.293 78.293 78.293 78.293 78.293 73.19 73.19 73.319 73.319 73.319 712.494 13.829 72.319 72.319 71.12.903 861.483 861.483 141.225	Mar-08 12.523% 12.523% 3,241 109,583 109,583 11,590,634 11,590,53411,590,500,500,500,500,500,500,500,500,500	A 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Apr-08 5.489% 5.489% 1.4205 1.4205 1.4205 1.4205 1.4205 1.4205 1.4205 1.4205 1.4205 1.4205 1.4205 3.1285 3.1285 8.0615 8.	May-07 1.606% 1.606% 1.345 4.510 4.510 4.510 1.106 1.208 9.186 9.186 9.186 1.206 1.206 1.206 1.205 1.265 1.565 1.2657	Jun-07 Jun-07 0.189% \$ 9.051 \$ 9.051 \$ 5.021 \$ 5.021 \$ 5.023 \$ 1.667 \$ 1.667 \$ 25 1.663 \$ 25 1.664 \$ 25 1.663 \$ 263 \$ 2	~	Jul-07 0.231% 0.231% 0.231% 11,062 5 650 5 65107 5 65107 5 61017 5 61307 5 61307 5 1011 5 11,011 5 12025 5 305 5 1793 5 1793 5 1793 5 1793 5 1793 5 1793 5 2025 5 303 5 21,73 5 1793 5 1793 5 1793 5 1793 5 1793 5 1793 5 1793 5 1793 5 1793 5 1793 5 1793 5 1793 <td< th=""><th>Aug-07 0.026% 1,255 1156 696 696 696 1150 1150 3335 3335 3335 11,262 1,262 1,262 1,262 1,262 1,262 1,262 1,263 1,2</th><th></th><th>P07 0.574% 27,437 149 149 15,207 15,207 15,207 5,023 5</th><th>Oct-07 3.291% 3.291% 157,308 157,308 852 8.62 2.636 14,374 9,240 9,263 9,240 14,374 8,252 14,374 9,266 14,374 426 14,374 9,266 12,536 28,356 18,17 426 18,17 417,981 158,160 26,336 26,336 3,206 26,336 26,327 26,316 26,316</th><th>TOTAL 100.000% 100.000% 25,881 25,881 261,800 261,800 261,800 261,800 261,800 261,800 261,800 271,827 77,155 571,827 51,229 61,7299 71,729 51,220</th><th>••••••••••••••••••••••••••••••••••••••</th><th>WINTER 94.082% 94.082% 24.349 24.349 24.349 24.4136 2523.791 2523.791 26.4169 27.175 823.289 21.175 823.289 12.175 823.289 12.175 823.289 12.175 823.289 12.175 823.289 823.289 12.175 823.289 823.289 823.289 923.289 93.618 5.41.591 5.41.583 5.41.586 5.41.586 5.41.581 5.41.581 5.41.581 5.41.581 5.41.581 5.41.581 5.41.581</th><th>5.918% 5.918% 5.918% 2.82,905 1.532 1.532 1.532 1.532 1.532 1.532 16.6135 16.6135 16.6135 16.6135 16.6135 3.841 2.545 3.841 7.51,702 2.54,437 7.51,702 2.54,437 7.51,702 2.54,437 7.51,702 2.54,437 7.51,702 2.54,437 40,628</th></td<>	Aug-07 0.026% 1,255 1156 696 696 696 1150 1150 3335 3335 3335 11,262 1,262 1,262 1,262 1,262 1,262 1,262 1,263 1,2		P07 0.574% 27,437 149 149 15,207 15,207 15,207 5,023 5	Oct-07 3.291% 3.291% 157,308 157,308 852 8.62 2.636 14,374 9,240 9,263 9,240 14,374 8,252 14,374 9,266 14,374 426 14,374 9,266 12,536 28,356 18,17 426 18,17 417,981 158,160 26,336 26,336 3,206 26,336 26,327 26,316 26,316	TOTAL 100.000% 100.000% 25,881 25,881 261,800 261,800 261,800 261,800 261,800 261,800 261,800 271,827 77,155 571,827 51,229 61,7299 71,729 51,220	••••••••••••••••••••••••••••••••••••••	WINTER 94.082% 94.082% 24.349 24.349 24.349 24.4136 2523.791 2523.791 26.4169 27.175 823.289 21.175 823.289 12.175 823.289 12.175 823.289 12.175 823.289 12.175 823.289 823.289 12.175 823.289 823.289 823.289 923.289 93.618 5.41.591 5.41.583 5.41.586 5.41.586 5.41.581 5.41.581 5.41.581 5.41.581 5.41.581 5.41.581 5.41.581	5.918% 5.918% 5.918% 2.82,905 1.532 1.532 1.532 1.532 1.532 1.532 16.6135 16.6135 16.6135 16.6135 16.6135 3.841 2.545 3.841 7.51,702 2.54,437 7.51,702 2.54,437 7.51,702 2.54,437 7.51,702 2.54,437 7.51,702 2.54,437 40,628

Page 5 of 7

ΡM
3:55
202
13/2
3/1

•

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations REMAINING COSTS

REMAINING TOTAL COSTS R

Feb-08 Mar-08 Apr-08 May-07 Jun-07 Jul-07 Åug-07 Sep-07 Oct-07 TOTAL WINTER SUMMER	\$ 2475,756 \$ 1,992,780 \$ 1,143,228 \$ \$ 16,563 \$ 12,110 7,908 \$ \$ 50,003 \$ 33,688 \$ 24,785 \$ \$ 1384,224 \$ 1062,331 \$ 640,418 \$ \$ 1384,224 \$ 1062,331 \$ 640,418 \$ \$ 1,384,224 \$ 1062,331 \$ 640,418 \$ \$ 1,380,358 \$ 212,114 \$ 158,996 \$ 102,103 \$ \$ 1,390,358 \$ 1066,752 \$ 645,219 \$ \$ \$ \$ 348,226 \$ 2,27,2175 \$ 178,305 \$ <	1 5 6,730,615 5 5,126,872 5 376,5562 5 181,923 5 26,268 5 4,03,389 5 1,942,633 5 3,667,169 5 3,668,133 5 3,668,133 5 3,668,133 5 3,668,133 5 3,668,133 5 3,668,133 5 3,668,133 5 5,6164,10 5 3,668,133 5 3,6164,10 5 3,688,133 5 3,6164,10 5 3,688,133 5 3,6164,10 5 3,688,133 5 3,6164,10 5 3,618,133 5 3,6164,10 5 3,618,133 5 3,6164,10 5 3,618,133 5 3,618,133 5 3,618,133 5 3,618,133 5 3,618,133 5 3,618,133 5 3,618,133 5 3,618,133 5 3,618,133 5 5,618,133 5 3,618,133 5 5,618,133 5 3,618,134 5 1,518,133 5 3,618,134 5 1,518,134 5 1,518,134 5 1,518,134 5 1,518,134 5 1,518,134	Feb-08Mar-01Ap-07Jun-0
Σ	••••••••••••••••••••••••••••••••••••••	6,739,615 2,492,319 617,943 3,047,494 54,040 527,819	Feb-08 Ma 4.462.911 5.3.5 1.618.912 5.1.3 1.618.912 5.1.5 35.562 5.903.483 35.562 5.903.483 915,044 5 915,044 5 915,044 5 915,044 5 915,044 5 915,044 5 915,044 5 140.821 5 21,606 5 22,013 5 231,605 5 21,605 5 21,606 5 143,916 5 102,951 5 102,951 5 1,630,837 5 1,634,591 5 386,594 5
Nov-07 Dec-07 Jar	\$1,338,808 \$2,438,491 \$3,5 \$2,014 \$15,523 \$2,5 \$2,5749 \$3,190 \$1,5 \$5,743,808 \$1,307,908 \$1,9 \$5,743,808 \$1,307,908 \$1,9 \$5,743,808 \$1,307,908 \$1,9 \$5,743,808 \$1,307,908 \$1,9 \$5,744,057 \$2,051,449 \$4,21 \$5,1372,805 \$3,33,440 \$4,21 \$5,100,806 \$3,33,440 \$4,40 \$5,100,806 \$5,1372,805 \$4,21 \$5,007 \$5,33,440 \$4,40 \$5,007 \$5,33,440 \$4,40 \$5,007 \$5,33,440 \$4,40 \$5,007 \$5,33,440 \$4,40 \$5,007 \$5,33,33 \$5,33,33 \$5,007 \$5,33,33 \$5,33,33 \$5,007 \$5,33,33 \$5,33,33 \$5,007 \$5,33,33 \$5,33,33 \$5,007 \$5,33,33 \$5,33,33 \$5,007 \$5,33,33 \$5,33,33 \$5,007 \$5,33,33 \$5,33,33 \$5,007 \$5,33,33 \$5,33,3	လ လု န တ က န	Nov-07 Dec-07 Jan \$ \$2,621,610 \$ 4,405,042 \$ 5,3 \$ \$92,677 \$ 1,605,35,43 \$ 1,0 \$ \$ \$6,984 \$ 11,013 \$ 1,0 \$ \$ \$53,685 \$ 900,558 \$ 1,0 \$ \$ \$545,685 \$ 910,699 \$ 1,0 \$ \$ \$545,685 \$ 910,699 \$ 1,0 \$ \$ \$545,685 \$ 910,699 \$ 1,0 \$ \$ \$175,221 \$ \$ 294,504 \$ 3 \$ \$ \$ 17,521 \$ \$ 294,504 \$ 3 \$ \$ \$ 10,10 \$ \$ 14,722 \$ 14,722 \$ \$ \$ \$ 10,100 \$ \$ \$ 14,722 \$ 1,3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
REMAINING TOTAL COSTS BY CLASS	Rea Heat Geo General GSO Low AmmarLow Winfer GSO Low AmmarLow Winfer G40 Low AmmarLow Winfer G40 Low AmmarLow Winfer G32 High AmmarLigh Winfer G32 High AmmarLigh Winfer G32 High AmmarLigh Winfer G32 High AmmarLigh Winfer Mon-Gamfalthered T51 High AmmarLow Winfer Non-Gamfalthered T31 High AmmarLow Winfer	Total \$3,620,799 \$6,618,755 17 Residential \$1,347,822 \$2,454,014 18 Residential \$1,347,822 \$2,454,014 19 SALES HLF CLASSES \$3,43,632,733 \$3,01,102 21 Non-Grandfathered HLF CLASSES \$1,569,027 \$3,001,102 21 Non-Grandfathered HLF CLASSES \$2,930 \$5,1,417 22 Non-Grandfathered LLF CLASSES \$2,90,985 \$5,0,444 23 Son-Grandfathered LLF CLASSES \$2,90,985 \$5,0,444 24 Son-Grandfathered LLF CLASSES \$2,90,985 \$5,0,444 25 Son-Grandfathered LLF CLASSES \$2,90,985 \$5,0,444 26 Son-Grandfathered LLF CLASSES \$2,90,985 \$5,0,444 27 Son-Grandfathered LLF CLASSES \$2,0,985 \$5,0,444 27 Son-Grandfathered LLF CLASSES \$2,90,985 \$5,0,444 28 Son-Grandfathered LLF CLASSES \$2,90,985 \$5,0,444 27 Son-Grandfathered LLF CLASSES \$2,90,985 \$5,0,444	TOTAL REMAINING Rev Heat Res General GSD Low Annual-Ling Winter GSD Low Annual-Ling Winter GSD Low Annual-Ling Winter GSD Low Annual-Ling Winter GST MpA Annual-Ling Winter GST MpA Annual-Ling Winter Mon-Gamdiathered T3 Ling Annual-Ling Winter Non-Gamdiathered T3 Ling Annual-Ling Winter Non-Gamdiathered T3 Ling Annual-Ling Winter Non-Gamdiathered T3 Ling Annual-Ling Winter Non-Gamdiathered T2 Ling Annual-Ling Winter Non-Gamdiathered LILF CLASSES SALES LLF CLASSES

Μ
3:55
2007
3/13/

.

Northern Utilities - NEW HAMPSHIRE DIVISION Simplified Market Based Alloctor (SMBA) Calculations REMAINING COSTS

TOTAL REMAINING INTERRUPTIBLE COMMODITY COSTS	MMODITY C	OSTS			0	(From Commodity tab)	odity tab	•	(Alloc	ate to classe	(Allocate to classes based on Remaining Sendout)	Remaini	ng Sendout)											
	Nov-07		Dec-07	Jai	Jan-08	Feb-08	Σ	Aar-08	◄	Apr-08	May-07		Jun-07	Jul-07	Aug-07		Sep-07	Oct-07		TOTAL	Ň	WINTER	SUMMER	Ш
1 TOTAL REMAINING	\$ 9,213	13 \$	•	69	,	• •	\$		ŧ	11,633									69	20,846	\$ 9	20,846	"	
3 Res Heat	\$ 3,383	33 \$		÷		•	÷		÷	4,303		÷		, ,	6 9	69		€	• •	7,68	7 \$	7,687		
4 Res General	5	25 \$	'	69		•	\$	•	\$	32		•••	,	, ,	•	•	,	•••	,	ŝ	8 8	56		
5 G50 Low Annual-Low Winter	\$	71 \$	•	••	,	' \$	*9	•	5	66	,	49	,	,	\$	•	'	59	, ,	11	\$	170	\$	
6 G40 Low Annual High Winter	\$ 1,894	94 \$	•	**	•	•	*	•	÷	2,410 \$		69		, ,	\$	• •	,	\$9	• ?	4,303	3 \$	4,303	\$	
7 G51 Med Annual-Low Winter	\$ 293	93 \$	•	••	,	' \$	••	,	÷	382	' *	•9		' *	•	• •	•	\$	به	67	4	674	\$	
8 G41 Med Annual-High Winter	\$ 1,91	18 \$	•	÷	,	•	÷	•	÷	2,441	, ,	v		•	- 67	• •	'	69	• •	4,35	9 8 6	4,359	\$,
9 G52 High AmmaHLow Winter	\$ 624	24 \$	'	÷	,	, \$	÷	'	÷	1962	' مر	••		' *	•	• •	•	••	••	1,42	• •	1,420	\$	
10 G42 High Annual High Winter	\$ 12	25 \$		69	'	•	÷	•	\$	49 \$	' ب	÷	,	, *	•9	• • •	•	÷	ب ه ۱	17	4 \$	174	€	
11 Non-Grandfathered T50 Low Annual-Low Winter	€ •	31 \$	•	Ś	,	•	Ś	•	ŝ	40 \$	1	*	,	•	•9	ده ,	•	••	,	2	- -	11	•	
12 Non-Grandfathered 140 Low Annuel-High Winter	\$ 10	109 \$	•	••		' \$	Ś	'	÷	139 \$, ,	*	'	,	¢	۰ ۶	•	••	, ,	24	8 8	248		
13 Non-Grandfathered 151 Med Annual-Low Winter	\$	45 \$	•	**	,	•	*	'	\$	59 \$	۰ ۲	÷	,	•	••	, ••	'	\$, •	9	4	104	\$	
14 Non-Grandfathered T41 Med Annuel High Winter	\$ 48	35 \$,	\$,	•	\$	'	••	618 \$, ,	÷			••	• •	'	•9	ب	1,10	4 \$	1,104	\$	
15 Non-Grandfathered T52 High Annual-Low Winter	•	••	•	÷	,	' \$	÷	'	••	ъЯ 1	•	÷		, *	÷	به	•	\$	ب	•	69	,	\$	
16 Non-Grandfathered 142 High Annual-High Winter	\$ 21	211 \$	•	69	,	•	÷	,	÷	266 \$		69	,	, *	÷	, ••	,	\$	به	47	7\$	477	6	
17 18 TOTAI	\$ 9.713	5		÷			÷		÷	11633 \$		÷	,		¥				•	20.846	••	20.846		,
19		2		•			•		,	0000		•			•	•		•	•		•		,	
20 SALES HLF CLASSES	\$ 1,01	12 \$		\$,	•	69	•	₩	1,308 \$	•	*	,	, **	••	• •	•	\$	ہ	2,32	\$ 0	2,320	\$	
21 SALES LLF CLASSES	\$ 7,319	19 \$	•	\$,	, *	\$	•	₩	9,203 \$	۰ ۲	ŝ	1	' *	••	ب ه		\$	ب ه ۱	16,52	3 8 E	16,523	\$	
22 Non-Grandfathered HLF CLASSES	\$	± 92	,	\$, \$	••		v ?	\$ 66	•	¢		, *	÷	• •	•	\$	÷	175	2 2	175	"	,
23 Non-Grandfathered LLF CLASSES	\$ 80	806 \$,	69	1	ج	€9	•	€	1,023	•	€9		, \$	69	• •		\$	• •	1,82	8 8	1,828	*	

Page 7 of 7

-•

...

		#	## #	## #		
## ###	### ##	###	# ###	# ###	####	## ##
##	# ##	#	## #	## #	# #	## #
# #	# # # #	# #	# # # #	# # # #	# # # #	# # # #
# #	# # # ##	#	## #	# # ## #	# # # #	# #
#####	"### # #	#####	## ###	## ###	"####"	### ###
	####					

Job : 833 Date: 3/13/2007 Time: 3:55:22 PM

. .

....

·	lorthern Utilities -
3/13/2007 9:2	Northern Utilities - N Simplified Market Baseu <u>Cost Summary</u>

Summary of Gas Costs

Matrix Matrix<	Control Control <t< th=""><th>Line</th><th>Nov-07</th><th>Dec-07</th><th>Jan-08</th><th>Feb-08</th><th>Mar-08</th><th>Apr-08</th><th>May-07</th><th>Jun-07</th><th>70-Inf</th><th>Aug-07</th><th>Sep-07</th><th>Oct-07</th><th>TOTAL</th><th>WINTER</th><th>SUMMER</th></t<>	Line	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	70-Inf	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
meth 3323 33234 32324 3	Image: Section (Section (Sectin (Section (Sectin (Section (Section (Section (Section (Section (Se	1 BASE COMMODITY															
International 1/10 0/10	International constraints 17/13 16/13 17/14 17	2 Ras Heat	\$ 310.888	\$ 341.909	\$ 353.222	\$ 330.531	\$ 344.271	306 246 \$	\$ 271996 \$			\$ 251.218	\$ 275.028	-	\$ 3.608.947	\$ 1.987.067	\$ 1.621.
Optimization Constraint Const	Control Contro Control Control <th< td=""><td>3 Res General</td><td>\$ 17.373</td><td>\$ 19.107</td><td>\$ 19.739</td><td>\$ 18.471</td><td>19.239</td><td>17,114 5</td><td>15 200 \$</td><td>-</td><td></td><td>13.474</td><td>\$ 15,369</td><td></td><td>• •4</td><td>\$ 111.042</td><td>30</td></th<>	3 Res General	\$ 17.373	\$ 19.107	\$ 19.739	\$ 18.471	19.239	17,114 5	15 200 \$	-		13.474	\$ 15,369		• •4	\$ 111.042	3 0
Circle constraints Circle constra Circle constraints Circle cons	Control Contro <thcontrol< th=""> <thcontrol< th=""> <thco< td=""><td>5 G50 Low Annual-Low Winter</td><td>\$ 131.054</td><td>\$ 144.130</td><td>5 148 899</td><td>139 334</td><td>\$ 145 126</td><td>129.097</td><td>114 659 \$</td><td></td><td></td><td>113 947</td><td>\$ 115 937</td><td>-</td><td>•</td><td>\$ 837,640</td><td>\$ 689</td></thco<></thcontrol<></thcontrol<>	5 G50 Low Annual-Low Winter	\$ 131.054	\$ 144.130	5 148 899	139 334	\$ 145 126	129.097	114 659 \$			113 947	\$ 115 937	-	•	\$ 837,640	\$ 689
Control Contro Control Control <th< td=""><td>Control Control <t< td=""><td>6 CAD I ow Apprile Light Winter</td><td>C 87 107</td><td>C OF ROB</td><td>000000</td><td>C 02 706</td><td>DE RED</td><td>DE BOF</td><td>76 280 6</td><td>70007</td><td>VE 3D</td><td>60 701</td><td>C 77 120</td><td>•</td><td>•••</td><td>¢ 557 376</td><td>¢ 454</td></t<></td></th<>	Control Control <t< td=""><td>6 CAD I ow Apprile Light Winter</td><td>C 87 107</td><td>C OF ROB</td><td>000000</td><td>C 02 706</td><td>DE RED</td><td>DE BOF</td><td>76 280 6</td><td>70007</td><td>VE 3D</td><td>60 701</td><td>C 77 120</td><td>•</td><td>•••</td><td>¢ 557 376</td><td>¢ 454</td></t<>	6 CAD I ow Apprile Light Winter	C 87 107	C OF ROB	000000	C 02 706	DE RED	DE BOF	76 280 6	70007	VE 3D	60 701	C 77 120	•	•••	¢ 557 376	¢ 454
Circle (in the intervalue) Circle (in the intervalue) <th< td=""><td>Circle Network Title Title</td><td>7 G51 Med Annual-1 ow Winter</td><td>223 972</td><td>\$ 246 320</td><td>\$ 254.470</td><td>\$ 738 173</td><td>* 248.022</td><td>220628</td><td>105 053 C</td><td>187 268 €</td><td>106,108</td><td>101073</td><td>4 108 138</td><td>• •</td><td>,</td><td>\$ 1431536</td><td>\$ 1178</td></th<>	Circle Network Title	7 G51 Med Annual-1 ow Winter	223 972	\$ 246 320	\$ 254.470	\$ 738 173	* 248.022	220628	105 053 C	187 268 €	106,108	101073	4 108 138	• •	,	\$ 1431536	\$ 1178
Constraint Type Constraint Constraint <td>Constraint Constraint Constra</td> <td>8 C41 Med Amuel Link Winter</td> <td>E 114 034</td> <td>C 105 413</td> <td># 120 EC3</td> <td>+ 101 200</td> <td>100070</td> <td>110 221 8</td> <td></td> <td></td> <td>001,001</td> <td>101 611</td> <td>+ 100 000</td> <td></td> <td>e 1 200 100</td> <td>C 720 056</td> <td></td>	Constraint Constra	8 C41 Med Amuel Link Winter	E 114 034	C 105 413	# 120 EC3	+ 101 200	100070	110 221 8			001,001	101 611	+ 100 000		e 1 200 100	C 720 056	
Control Contro <thcontrol< th=""> <thcontrol< th=""> <thco< td=""><td>Control Control Contro <thcontrol< th=""> <thcontrol< th=""> <thco< td=""><td></td><td>100, FII 9</td><td>4 01 7ED</td><td>200,621 \$</td><td>0 121,239</td><td>012071 0</td><td>112,001 4</td><td>4 33'LOO 4</td><td>901010 0</td><td>C11'00</td><td>10,101 4</td><td>CE 257</td><td>÷.</td><td>- • •</td><td>4 72 108</td><td></td></thco<></thcontrol<></thcontrol<></td></thco<></thcontrol<></thcontrol<>	Control Contro <thcontrol< th=""> <thcontrol< th=""> <thco< td=""><td></td><td>100, FII 9</td><td>4 01 7ED</td><td>200,621 \$</td><td>0 121,239</td><td>012071 0</td><td>112,001 4</td><td>4 33'LOO 4</td><td>901010 0</td><td>C11'00</td><td>10,101 4</td><td>CE 257</td><td>÷.</td><td>- • •</td><td>4 72 108</td><td></td></thco<></thcontrol<></thcontrol<>		100, FII 9	4 01 7ED	200,621 \$	0 121,239	012071 0	112,001 4	4 33'LOO 4	901010 0	C11'00	10,101 4	CE 257	÷.	- • •	4 72 108	
model model <th< td=""><td>model model <th< td=""><td></td><td>010'C1 0</td><td>+ 100 E 10</td><td>4 10C 100</td><td></td><td>101010</td><td>4 C11/71 4</td><td></td><td></td><td>020'00</td><td></td><td>- CC 100</td><td></td><td>• •</td><td></td><td>4 CF 2</td></th<></td></th<>	model model <th< td=""><td></td><td>010'C1 0</td><td>+ 100 E 10</td><td>4 10C 100</td><td></td><td>101010</td><td>4 C11/71 4</td><td></td><td></td><td>020'00</td><td></td><td>- CC 100</td><td></td><td>• •</td><td></td><td>4 CF 2</td></th<>		010'C1 0	+ 100 E 10	4 10C 100		101010	4 C11/71 4			020'00		- CC 100		• •		4 CF 2
memory consideration (model) (m	matrix		5 104,133		4 100,403	4 1/4,3U3	101,101 4	9 101 C 1	01,941 4	21,003 4	3 056	41/10 ¢	4 00,139 4 2 176	- • •	- -	4 1,049,009 4 22 585	* *
Interformer 27.02 20010 2001 2001	memory							1010						9 6	÷ 6	40 774	
Construction Construction<	Image: Section in the contrast of the c		101'1 4	4007 A	B,848	6/7/8	8,624	- 1/9// 4	0,813	0,511 \$	228,0	0,128	5 0,089	А 6	A 6	49,1/4 6 720 762	
Matrix Stand Stand <t< td=""><td>Manual and another and another and another and another another</td><td></td><td>40 10 10 40 40 40 40 40 40 40 40 40 40 40 40 40</td><td>4 1,003</td><td>42,443</td><td>10 73° 10</td><td>10014</td><td>00'/20 4</td><td>32,003</td><td>4 407'IC</td><td>32,123</td><td>30,213</td><td>1000</td><td>₽6</td><td>•</td><td>01 0C7 ¢</td><td></td></t<>	Manual and another and another and another and another		40 10 10 40 40 40 40 40 40 40 40 40 40 40 40 40	4 1,003	42,443	10 73° 10	10014	00'/20 4	32,003	4 407'IC	32,123	30,213	1000	₽ 6	•	01 0C7 ¢	
monomentation 2,033 2,103	Contrantise 2 7/20		40,130	40 00' 4	014/20 4	49,000	690,10	45,44/	40,364	¢ 6/6'96	40,414	40,125	40,014	A (A 4	2 7 7 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	
Monochamelikation 2	Monomental (1) 1,200.0 1,700.0		8,154	\$ 10,233	\$ 12,106	4 11,986	10,465	6 9'/ 6 4	\$ 103 \$	¢ 161,1	699'6	9,583	5 9,983	A (A (03,320	
TOTAL 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 2,200.00 <t< td=""><td>TOIN. 512066 1.037.01 1.032.06 1.037.01 1.030.02 0.0304 1.030.06 1.032.01 2.000.00 2.030.06 2.000.01 2.</td><td></td><td>\$ 24,603</td><td>800,12 \$</td><td>\$ 21,954</td><td>\$ 26,158</td><td>\$ 21,245</td><td>24,236</td><td>\$ 21,526 \$</td><td>20,322</td><td>21,552</td><td>\$ 16,227</td><td>\$ 21,766</td><td>÷</td><td>•</td><td>662,161 \$</td><td>¥71 ¢</td></t<>	TOIN. 512066 1.037.01 1.032.06 1.037.01 1.030.02 0.0304 1.030.06 1.032.01 2.000.00 2.030.06 2.000.01 2.		\$ 24,603	800,12 \$	\$ 21,954	\$ 26,158	\$ 21,245	24,236	\$ 21,526 \$	20,322	21,552	\$ 16,227	\$ 21,766	÷	•	662,161 \$	¥71 ¢
Other 1,20003 5,10010 5,12500 5,72600 5,7713 5,72000 5,74000 5			- 1 OLO 000		101 001 1					101010	000 100		•		•		
State 3 (1)(0) 3 (2)(0) <t< td=""><td>Relation 39.082 9.0106 7.12.00 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 <th< td=""><td></td><td>41,23U,959</td><td>\$ 1,3/6,101</td><td>1,423,105</td><td></td><td>101,086,1</td><td>1,233,177</td><td>1,038,022</td><td>940,584</td><td>1,080,468</td><td></td><td>-</td><td></td><td>A</td><td></td><td></td></th<></td></t<>	Relation 39.082 9.0106 7.12.00 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 2.01/16 2.00106 <th< td=""><td></td><td>41,23U,959</td><td>\$ 1,3/6,101</td><td>1,423,105</td><td></td><td>101,086,1</td><td>1,233,177</td><td>1,038,022</td><td>940,584</td><td>1,080,468</td><td></td><td>-</td><td></td><td>A</td><td></td><td></td></th<>		41,23U,959	\$ 1,3/6,101	1,423,105		101,086,1	1,233,177	1,038,022	940,584	1,080,468		-		A		
Strate Store Store <t< td=""><td>SALES INTE Stand Stand</td><td></td><td>100 000 4</td><td></td><td>020 020</td><td></td><td></td><td></td><td>-</td><td>101 110</td><td></td><td>100 Fac 4</td><td></td><td></td><td>e 3 010 060</td><td>¢ 2,000,100</td><td>¢ 1711</td></t<>	SALES INTE Stand		100 000 4		020 020				-	101 110		100 Fac 4			e 3 010 060	¢ 2,000,100	¢ 1711
SNLEE UF CARSES 5 4,53,44 7,11,01 8,7,101	Substant Stand		202,020		312,900	249,002	· ·	+ 000'070 +		214,401		CA0'402 4			000'010'C &		
Svatcal Solution	SNLELIL CLARSE FIGAT FUIL CLARSE FIGAT FUIL CLARSE FUIL		\$ 428,904	\$ 4/1,700	\$ 487,307	\$ 456,003	\$ 4/4,959	\$ 422,500	375.248 \$	358,617 \$	369,525	\$ 3/0,801		A (<i>•</i>	2,141,314	507'Z 4
Mon-Grandalfhered HL CLASES 3 40k3 5 5.503 5 5.463 5 7.036 5 4.2817 5 4.1935 5 6.646 5 7.394 5 90.347 5 01.906 5 REMAINING COMMONIN Ferdameter LL CLASES 7 8.563 5 6.543 5 7.035 5 6.546 5 7.136 5 9.3365 5 9.3365 5 9.3365 5 9.3365 5 9.3365 5 9.3365 5 9.3366 5 7.146 5 9.93366 5 9.3366 <	Non-Grandalfmend LF CLASSES 5 5.003 5.64/03 5.61/03 5.61/03 5.61/03 5.61/03 5.61/03 5.61/03 5.61/03 5.61/03 5.61/03 5.61/03 5.61/03 5.61/03 5.61/03 5.61/03 5.61/03 5.71/63 5.93/361 5.73/64 5.93/361 5.73/64 5.93/361 5.73/64 5.93/361 5.73/64 5.91/37 5.01/36 5.71/62 5.93/361 5.23/661 5.73/64 5.93/361 5.23/661 5.73/64 5.93/361 5.23/661 5.73/64 5.93/361 5.23/661 5.72/661 5.72/661 5.72/661 5.72/661 5.72/661		\$ 365,364	\$ 401,820	\$ 415,115	\$ 388,448	\$ 404,596	359,908	\$ 263,998 \$	200,106 \$	308,936	\$ 234,046		6	60 69	\$ 2,335,251	\$ 1,559
Non-Grandfahrered LF CLASELS 7 75.56 6 6.362 6 80.703 7 7.364 5 6.706 5 6.7406 5 6.7406 5 69.746 7 7.354 5 01.906 5 REMAINIC COMMOTIT 5 992.293 1 1002 5 5 1.700 5 1 200 5 5 7.710 5 1 200 5 5 7.710 5 1 200 5 5 7.710 5 1 200 5 5 7.710 5 1 200 5 1 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 2 201 5 <td>Non-Grandaffered LF CLASES 7 76,56 8,036 5 77,364 5 90,105 5 57,165 5 90,214 5 50,106 5 REMAIN COMMONIY 899 1 30,05 10,06 5 57,165 5 50,016 5 5 5 64,06 5 64,06 5 64,016 5 73,504 5 90,314 5 50,106 5 50,106 5 50,106 5 50,106 5 50,106 5 50,107 5 50,106 5 50,107 5 50,106 5 50,107 5 50,106 5 50,107 5 50,106 5 50,107 5 50,106 5 50,107 5 50,106 5 50,107 5 50,105 5 50,107 5 50,107 5 50,107 5 50,107 5 50,107 5 50,107 5 50,107 5 50,107 5 5</td> <td></td> <td>\$ 49,643</td> <td>\$ 55,203</td> <td>\$ 58,563</td> <td>\$ 55,459</td> <td>\$ 55,745</td> <td>50,055</td> <td>\$ 42,877 \$</td> <td>41,985 \$</td> <td>45,664</td> <td>\$ 43,007</td> <td></td> <td>\$</td> <td>\$</td> <td>\$ 324,668</td> <td>\$ 268</td>	Non-Grandaffered LF CLASES 7 76,56 8,036 5 77,364 5 90,105 5 57,165 5 90,214 5 50,106 5 REMAIN COMMONIY 899 1 30,05 10,06 5 57,165 5 50,016 5 5 5 64,06 5 64,06 5 64,016 5 73,504 5 90,314 5 50,106 5 50,106 5 50,106 5 50,106 5 50,106 5 50,107 5 50,106 5 50,107 5 50,106 5 50,107 5 50,106 5 50,107 5 50,106 5 50,107 5 50,106 5 50,107 5 50,106 5 50,107 5 50,105 5 50,107 5 50,107 5 50,107 5 50,107 5 50,107 5 50,107 5 50,107 5 50,107 5 5		\$ 49,643	\$ 55,203	\$ 58,563	\$ 55,459	\$ 55,745	50,055	\$ 42,877 \$	41,985 \$	45,664	\$ 43,007		\$	\$	\$ 324,668	\$ 268
REMAINING COMMONTY Second	REMAINING COMMOTY Emain Common commo		\$ 78,526	\$ 86,362	\$ 89,219	\$ 83,488	\$ 86,958	\$ 77,354 \$	\$ 68,703 \$	65,408 \$	68,788	\$ 62,480	69	\$ 73,594	\$ 910,347	\$ 501,906	\$ 408
REMAINING CONNOLITY Sea (1) Sea (1) <td>FEMANING CONNOLTY FEMANING CONNOLTY Remaining 51303 51043 511284 11905 517162 9.353,661 8.296,411 51 Remaining 5094 11003 666 11201 5106 51205 517162 9.353,661 8.296,411 5 Remaining 5094 10033 5000 7.006 5102 5 517162 5 535346 5 50447 5 666 11201 5 7006 5 50447 5 666 11201 5 666 5 1201 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 7006 7006 7006 7006</td> <td>0.4</td> <td></td>	FEMANING CONNOLTY FEMANING CONNOLTY Remaining 51303 51043 511284 11905 517162 9.353,661 8.296,411 51 Remaining 5094 11003 666 11201 5106 51205 517162 9.353,661 8.296,411 5 Remaining 5094 10033 5000 7.006 5102 5 517162 5 535346 5 50447 5 666 11201 5 7006 5 50447 5 666 11201 5 666 5 1201 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 5 7006 7006 7006 7006 7006	0.4															
REMAINING COMMODITY REMAINING COMMODITY Relation 99(3) \$106(354 \$196(65) \$129(1 \$2,7/162 \$9.33,615 \$1,233,615	REMANNIC CONNOLIT REMANNIC Connol Solution Solut																
Revent Solution 993.203 \$1606.36 \$1610.12 \$1.204 \$0.082 \$2.84.71 \$4.003 \$110.25 \$57.162 \$0.33.861 \$0.33.641 \$7.162 \$0.33.661 \$0.33.641 \$0.445 \$0.33.641 \$0.445 \$0.33.641 \$0.445 \$0.33.641 \$0.445 \$0.33.641 \$0.445 \$0.33.641 \$0.445 \$0.33.641 \$0.445 \$0.33.641 \$0.445 \$0.33.641 \$0.445 \$0.33.641 \$0.445 \$0.33.641 \$0.445 \$0.33.641 \$0.445 \$0.445 \$0.445 \$0.445 \$0.445 \$0.445 \$0.445 \$0.445 \$0.445 \$0.445 \$0.445 \$0.445 \$0.445 \$0.445 \$0.445 \$0.446 \$0.446 \$0.446 \$0.446 \$0.446 \$0.33.441 \$0.446 \$0.33.441 \$0.446 \$0.33 \$0.446 \$0.33.441 \$0.466 \$0.33.256 \$0.3234 \$0.466 \$0.333 \$0.446 \$0.33 \$0.446 \$0.33 \$0.446 \$0.326 \$0.446 \$0.326 \$0.224 \$0.224 \$0.224 \$0.224	Revent Second 10002 5100536 10002 51005 51005 51005 50050505 5005050 5005050<																
Residential 6.050 5.100		_	\$ 959 203	\$ 1 605 354			÷	3 RAD 852 \$	\$ 280 427 \$	44 087 \$	24 702	1 038	4 119.025	÷	\$ 9 353 A51	\$ 8 295 411	\$ 1058
General-trawment 20,103 5,502 5,502 5,502 5,502 5,503 5,703 5,433 5,504 5,406 5,605 5,200 7,7305 6,133 5,504 6,406 5,504 6,706 5,703 7,713 7,713 7,713 <td>GSI Low humel Low Wile 20,010 5,0201 2,010 5,0201</td> <td></td> <td>\$ 6050</td> <td>11 013</td> <td></td> <td></td> <td>1</td> <td>6.488 €</td> <td>1006</td> <td>Rof C</td> <td>1 921</td> <td>314</td> <td>5 1191</td> <td>- -</td> <td>, , ,</td> <td>58.547</td> <td></td>	GSI Low humel Low Wile 20,010 5,0201 2,010 5,0201		\$ 6050	11 013			1	6.488 €	1006	Rof C	1 921	314	5 1191	- -	, , ,	58.547	
Constraint State	Contrumtion 556.95 5.0.03 5.		C 20 141	C 28 504	A 24 234	36,607		20180	1 200	A DBC	2 200	EVV	5 5034		••	162 040	- -
Orienticity within Description Function	Outcomplexity Substrate Function Functin Function <thuntion< th=""></thuntion<>		¢ 536 067		C 1 105 073	200,00 402	1 776 4E0 4		160 020 6		7 626		CCCC	C 334 760		C A CAC CIR	* 5 A
of MadAmust-Lew Winler 5 43,240 5 1,030,3 5 1,030,3 5 1,030,3 5 1,030,3 5 1,020,3 5 1,010,30,3 5 1,020,3	orientation $53,3,36$ $51,3,36$ $51,3,36$ $51,3,36$ $51,3,36$ $51,3,36$ $51,3,36$ $51,3,36$ $51,3,36$ $51,3,36$ $51,32,360$ $51,32,320$ $51,32,320$ $51,32,320,30$ $51,32,320,30$ $51,32,320,30$ 51			4 400,000		4 303,403	404,400	4 007 024 4	4 100,303 4		1,030	0121		P 324,200	5 9 4		
Gar Manual-Hym Miner 5 - 34, 5 - 55, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 53, 0 + 5 5 - 55, 0 + 5	Gat Ham Annual-Ham Minite 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		006'70 4	770'671 4	4 100°334	40,021	104,290	671'01 0	+ 72,23U	010'01	0,100	0000		÷ (÷ •	200,000	
G27 High Annual-Low Minate \$ 716,33 \$ 72,533 \$ 52,515 \$ 6,529 \$ 5,515 \$ 6,529 \$ 5,515 \$ 6,512 \$ 6,5129 \$ 5,5163 \$ 79,72 \$ - 5 \$ 5,610 \$ 76,380 \$ 75,713 \$ 75,733 \$ 5,5103 \$ 11,607 \$ 8,1600 \$ 5,5153 \$ 6,5172 \$ - 5 \$ 5,610 \$ 5,610 \$ 76,380 \$ 75,703 \$ 5,611 \$ 11,507 \$ 6 \$ 1,159 \$ 5,510 \$ 86,047 \$ 76,380 \$ 76,703 \$ 5,611 \$ 1,157 \$ 5,510 \$ 86,047 \$ 76,380 \$ 5,7103 \$ 16,073 \$ 5,414 \$ 9,410 \$ 1771 \$ 1,159 \$ 5,510 \$ 86,047 \$ 76,380 \$ 5,7103 \$ 16,071 \$ 1,173 \$ 1,173 \$ 1,159 \$ 5,130 \$ 41,773 \$ 1,173 \$ 1,175 \$ 2,204 \$ 1,173 \$ 1,187 \$ 1,137 \$ 1,173 \$ 1,160,75 \$ 1,160,75 \$ 1,160,75 \$ 1,173 \$ 1,173 \$ 1,173 \$ 1,160,75 \$ 1,160,75 \$ 1,160,75 \$ 1,173 \$ 1,160,75 \$ 1,160,75 \$ 1,160,75 \$ 1,160,75 \$ 1,160,75 \$ 1,173 \$ 1,173 \$ 1,160,75 \$ 1,160,75 \$ 1,160,75 \$ 1,160,75	37:333 5:3454 5:355 9:627 5:3453 5:3463 5:3473 5:3413 5:3413 5:3413 5:3413 5:3413 5:3413 5:3413 5:4733 5 4:875 5 4:875 5 4:875 5 4:875 5 4:875 5 5:343 5:2413 5:1696 5 4:173 5 1:357 5 5:6035 5:1875 5 5:6035 5 5:738 5 5:738 5 5:6165 5 4:173 5 1:357 5 5:6035 5:1816 5 5:738 5 5:1395 5:6066 5 1:1817 5:2726 5 5:131 5 5:665 5 5:131 5 5:131 5 5:131 5 5:131 5:2120 5 5:131		\$ 243,748	\$ 910,699	\$ 1'0AB'1/A	\$ 915,044	134,6/0	499,012	4 102,001 4	70,111 \$	10,828	0//1		A (A (\$ 4'/UZ'013	
And-Gradifilament Hop Winler 5 35,333 107/722 5 146,005 5 710 5 66,047 5 765 5 66,047 5 76,300 5 66,047 5 76,300 5 66,047 5 76,300 5 66,047 5 76,300 5 66,047 5 76,300 5 66,047 5 76,300 5 66,047 5 76,300 5 66,047 5 76,500 5 66,047 5 76,500 5 16,070 5 8,410 5 1,591 5 1,150 5 3,166 5 1,003 5 86,047 5 76,300 5 66,047 5 76,300 5 66,047 5 76,300 5 66,047 5 76,300 5 66,047 5 76,500 5 1,167 5 2,100 5 1,07,50 5 1,07,50 5 1,07,50 5 1,07,54 5 66,047 5 76,500 5 1,07,53 5 7,130 5 1,07,53 5 7,130 5 1,167,51 5 1,307,750 5 1,07,54 5 6,047 5 7,630 5 7,130 5 1,167,51 5 1,307,750 5 1,07,54 5 6,047 5 7,630 5 7,130 5 1,07,54 5 6,047 5 7,630 5 6,047 5 7,630 5 6,566,177 5 2,5106 5 1,07,54 5 6,566,177 5 2,2728,745 5 5,666,177 5 2,2728,745 5 2,666,177 5 2,2728,745 5 2,666,177 5 2,2728,745 5 2,666,177 <t< td=""><td>Mor-Grandfalmenet Unwinder \$ 35,395 10,775 11,907 8,410 2,615 11,505 11,505 11,505 11,505 12,715 14,715 15,814 15,814 15,814 14,715 14,715 14,715 14,715 14,715 14,715 14,715</td><td></td><td>\$ 176,897</td><td>\$ 294,504</td><td>\$ 355,085</td><td>\$ 297,898</td><td>\$ 237,613</td><td>162,894</td><td>53,563 \$</td><td>9,627 \$</td><td>6,029</td><td>\$ 985</td><td></td><td>\$</td><td>\$</td><td>\$ 1,524,891</td><td>\$ 199</td></t<>	Mor-Grandfalmenet Unwinder \$ 35,395 10,775 11,907 8,410 2,615 11,505 11,505 11,505 11,505 12,715 14,715 15,814 15,814 15,814 14,715 14,715 14,715 14,715 14,715 14,715 14,715		\$ 176,897	\$ 294,504	\$ 355,085	\$ 297,898	\$ 237,613	162,894	53,563 \$	9,627 \$	6,029	\$ 985		\$	\$	\$ 1,524,891	\$ 199
Non-Grandfathered T60 Low Annuel-Low Winler 8.855 14,720 5 11,907 8.460 5 2.681 5 773 5 5 5 5 5 6 5 11,59 5 5310 5 86.047 7 7 5 2.67.083 5 1.57.18 7 5 3.915 5 1.519 5 5.310 5 86.047 5 76.300 5 267.063 5 267.063 5 2.67.163 5 2.67.163 5 2.67.163 5 2.67.163	Mon-Grandlahmeer T60 Low Annuel-Low Winder 8 8655 14,752 17,791 5 41,007 5 8,100 5 8,100 5 6,510 5 8,6047 5 76,300 5 Non-Grandlahmeer T60 Low Annuel-Low Winder 5 1,609 5 2,013 5 41,703 5 2,013 5 4,100 5 1,521 5 1,150 5 8,606 5 301,419 5 267,063 5 Non-Grandlahmeer T61 Low Annuel-Low Winder 5 1,274 5 1,2016 5 1,2015 5 1,521 5 1,715 5 2,467 5 3,01419 5 267,063 5 Non-Grandlahmeer T51 Moux Annuel-Low Winder 5 1,274 5 1,2016 5 1,2015 5 1,515 5 1,515 5 1,515 5 3,515 5 1,516 5 8,657,17 5 2,203 5 1,517 5 2,203 5 1,214 5 1,224 5 1,716 5 2,403 5 1,213 5 1,213 5 1,214 5 1,214 5 1,214 5 1,214 5 1,213 5 2,413 5 2,413 5 2,411 5		\$ 35,393	\$ 107,732	\$ 146,035	\$ 116,064	\$ 72,583	\$ 10,070	\$ •	, ,	79,975	\$ 13,072		\$	•••	\$ 487,878	\$ 93
Non-Grandlahered Td Low Annuel-High Winler 5 10,001 5 51,693 5 22,013 5 41,703 5 15,21 5 717 5 12,716 5 267,063 5 216,053 5 267,063 5 216,053 5 16,056 5 21,073 5 15,41 5 160,65 5 30,419 5 267,063 5 160,571 5 160,5721 5 160,5721 5 160,5721 5 120,568 5 1160,571 5 120,768 5 120,768 5 120,768 5 120,768 5 120,768 5 120,761 5 120,761 5 120,763 5 120,763 5 120,763 5 120,763 5 120,763 5 120,763 5 120,763 5 120,763 5 120,763 5 120,763 5 120,763 5 120,763 5 22,766 5 22,417 5 22,726 <th< td=""><td>Non-Grandfahreed T40 Low Annuel-High Winter \$ 30,901 \$ 51,809 \$ 62,334 \$ 52,013 \$ 41,703 \$ 28,414 \$ 9,410 \$ 1,521 \$ 777 \$ 2,487 \$ 3,546 \$ 10,5721 \$ 567,063 \$ 5 Non-Grandfahreed T40 Low Annuel-High Winter \$ 12,741 \$ 19,666 \$ 2,1662 \$ 15,910 \$ 1,501 \$ 1,501 \$ 1,501 \$ 1,5716 \$ 3,163 \$ 1,187,464 \$ 5 \$ 166,771 \$ 5,566,177 \$ 2,617,85 \$ 1,667,718 \$ 1,607,718 \$ 1,187,464 \$ 5,1672 \$ 1,667,718 \$ 1,187,464 \$ 5,1672 \$ 1,187,464 \$ 1,243 \$ 1,243 \$ 1,243 \$ 5,1716 \$ 1,243 \$ 5,2728,455 \$ 2,64,195 \$ 1,173 \$ 1,716 \$ 1,716 \$ 1,746 \$ 3,266,5177 \$ 2,2728,455 \$ 5,27,193 \$ 1,187,464 \$ 2,4,119 \$ 1,337,91 \$ 1,31,503 \$ 1,524,652 \$ 2,566,177 \$ 2,2728,455 \$ 2,4,119 \$ 1,716 \$ 1,746 \$ 3,226,125 \$ 1,666,517 \$ 2,2728,455 \$ 2,4,119 \$ 1,716 \$ 1,66 \$ 3,351,61 \$ 1,233,357 \$ 2,4,135 \$ 2,4,119 \$ 1,324,652 \$ 2,5665,177 \$ 2,2728,455 \$ 2,666,5177 \$ 2,2728,455 \$ 2,666,517</td><td></td><td>\$ 8,855</td><td>\$ 14,752</td><td>\$ 17,791</td><td>\$ 14,916</td><td>\$ 11,907</td><td>\$ 8,160 \$</td><td>\$ 2,681 \$</td><td>473 \$</td><td>39</td><td>9 8</td><td></td><td>69</td><td>⇔</td><td>\$ 76,380</td><td>60 \$9</td></th<>	Non-Grandfahreed T40 Low Annuel-High Winter \$ 30,901 \$ 51,809 \$ 62,334 \$ 52,013 \$ 41,703 \$ 28,414 \$ 9,410 \$ 1,521 \$ 777 \$ 2,487 \$ 3,546 \$ 10,5721 \$ 567,063 \$ 5 Non-Grandfahreed T40 Low Annuel-High Winter \$ 12,741 \$ 19,666 \$ 2,1662 \$ 15,910 \$ 1,501 \$ 1,501 \$ 1,501 \$ 1,5716 \$ 3,163 \$ 1,187,464 \$ 5 \$ 166,771 \$ 5,566,177 \$ 2,617,85 \$ 1,667,718 \$ 1,607,718 \$ 1,187,464 \$ 5,1672 \$ 1,667,718 \$ 1,187,464 \$ 5,1672 \$ 1,187,464 \$ 1,243 \$ 1,243 \$ 1,243 \$ 5,1716 \$ 1,243 \$ 5,2728,455 \$ 2,64,195 \$ 1,173 \$ 1,716 \$ 1,716 \$ 1,746 \$ 3,266,5177 \$ 2,2728,455 \$ 5,27,193 \$ 1,187,464 \$ 2,4,119 \$ 1,337,91 \$ 1,31,503 \$ 1,524,652 \$ 2,566,177 \$ 2,2728,455 \$ 2,4,119 \$ 1,716 \$ 1,746 \$ 3,226,125 \$ 1,666,517 \$ 2,2728,455 \$ 2,4,119 \$ 1,716 \$ 1,66 \$ 3,351,61 \$ 1,233,357 \$ 2,4,135 \$ 2,4,119 \$ 1,324,652 \$ 2,5665,177 \$ 2,2728,455 \$ 2,666,5177 \$ 2,2728,455 \$ 2,666,517		\$ 8,855	\$ 14,752	\$ 17,791	\$ 14,916	\$ 11,907	\$ 8,160 \$	\$ 2,681 \$	473 \$	39	9 8		69	⇔	\$ 76,380	60 \$9
Non-Grandfahred f5t Mod Annuel-Low Winde 12,741 5 19,686 5 23,706 5 21,601 5 1,645 5 2,883 5 411 5 3,546 5 120,268 5 105,721 5 Non-Grandfahred f5t Mod Annuel-Low Winler 5 127,716 5 23,061 5 137,57 5 229,590 5 23,1630 5 165,234 5 16,53 5 1645 5 2,487 5 3,546 5 105,721 5 Non-Grandfahred 12t High Annuel-High Winer 5 137,53 5 1645 5 24,365 5 12,336 5 1243 5 1243 5 1,187,44 5 1,243 5 1,187,44 5 24,119 5 1,187,44 5 1,133,791 5 1,187,44 5 23,119 5 1,187,44 5 2,2416 5 2,24,119 5 1,167,43 5 2,2416 5 2,24,119 5 2,2416	Non-Grandathered Tst Med Annuel-Lew Write 7 12,741 5 19,686 5 23,706 5 21,621 5 35,15 5 1,645 5 2,883 5 411 5 2,487 5 3,546 5 105,721 5 Non-Grandathered Tst Med Annuel-Lew Writer 5 37,577 5 23,1630 5 165,231 5 3,151 5 3,164 5 3,153 5 1,173 5 3,164 5 3,154 5 1,243 5 1,243 5 1,243 5 1,243 5 1,243 5 1,243 5 1,243 5 1,243 5 2,4119 5 1,116 5 3,166 1,243 5 2,4119 5 1,116 5 2,1119 5 1,116 5 2,1119 5 1,116 5 2,1119 5 1,116 5 2,1119 5 1,116 5 2,1119 5 1,116 5 5<		\$ 30,901	\$ 51,699	\$ 62.334	\$ 52.013	\$ 41.703	28.414 \$	\$ 9.410 \$	1.521 \$	111	\$ 127	\$ 3,915	\$	÷	\$ 267,063	\$ 34
Non-Grandlathmed 141 Med Annual-High White 5 127,57 5 229,590 5 276,838 5 231,530 5 128,534 5 128,566 41,773 5 7,139 5 943 5 154 5 1,187,764 5 Non-Grandlathmed 172 High Annual-High White 5 39,966 5 102,951 5 18,656 5 405 5 313 5 1,243 5 - 5 <t< td=""><td>Non-Grandtahred T4 Med Annual-High Write \$ 177,15 \$ 229,590 \$ 276,833 \$ 231,530 \$ 195,234 \$ 126,566 \$ 41,773 \$ 7,139 \$ 943 \$ 17,716 \$ 82,611 \$ 1,337,791 \$ 1,187,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,454 \$ 1,087,454 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,454 \$ 1,087,454 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,013,451 \$ 1,087,451 \$ 1,087,410 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451</td><td></td><td>\$ 12,741</td><td>\$ 19,686</td><td>\$ 23,706</td><td>\$ 21,662</td><td>15,910</td><td>12.015 \$</td><td>3,515 \$</td><td>1,645 \$</td><td>2,883</td><td>\$ 471</td><td>\$ 2,487</td><td>\$</td><td>\$</td><td>\$ 105,721</td><td>\$ 14</td></t<>	Non-Grandtahred T4 Med Annual-High Write \$ 177,15 \$ 229,590 \$ 276,833 \$ 231,530 \$ 195,234 \$ 126,566 \$ 41,773 \$ 7,139 \$ 943 \$ 17,716 \$ 82,611 \$ 1,337,791 \$ 1,187,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,454 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,454 \$ 1,087,454 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,454 \$ 1,087,454 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,087,451 \$ 1,013,451 \$ 1,087,451 \$ 1,087,410 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451 \$ 1,013,451		\$ 12,741	\$ 19,686	\$ 23,706	\$ 21,662	15,910	12.015 \$	3,515 \$	1,645 \$	2,883	\$ 471	\$ 2,487	\$	\$	\$ 105,721	\$ 14
Non-Grandfahrand T52 High Amual-Hue Writer 5 5 5 45 5 45 5 455 5 455 5 455 5 455 5 455 5 455 5 455 5 455 5 455 5 455 5 455 5 455 5 524,119 5 524,119 5 552,264 5 524,119 5 524,119 5 <	Non-Grandfathmal Low Winter 5 5 4 5 4 5 4 5 4 5 3 1 2 1 2 1 2 1 2 1 2 4 5 4 5 3 1 2 2 1 2<		\$ 137.577	\$ 229.590	\$ 276,838	\$ 231.630	\$ 185.234	126.586 \$	41.773 \$	7,139 \$	943	\$ 154	\$ 17.716	\$	\$	\$ 1.187.454	\$ 150
Non-Grandfaltered T42 High Annual-High Writer 5 <th< td=""><td>Mon-Grandfaltered T47 High Minuel-High Winer 5 59.966 5 101,839 5 123,366 5 102,951 8 16,814 5 - 5 6,453 5 991 5 34,261 5 565,844 5 524,119 5 TOTAL \$2,612,396 \$4,405,042 \$5,329,129 \$4,462,911 \$3,538,238 \$2,381,028 \$72,328 \$131,503 \$122,530 \$2,4,932 \$3,30,466 \$1,524,652 \$2,566,177 \$22,728,145 \$2 Residential \$2,612,396 \$4,405,042 \$5,329,129 \$4,462,911 \$3,538,238 \$2,91,333 \$4,4782 \$26,652 \$4,362 \$2,566,177 \$22,728,145 \$2 Residential \$2,612,396 \$4,462,911 \$3,538,238 \$2,91,333 \$4,4782 \$26,652 \$4,4963 \$4,322,310 \$8,353,357 \$1 \$2 SALES HLF CLASSES \$2,64,753 \$4,74,311 \$3,65,110 \$2,81,320,353 \$4,7482 \$2,665,177 \$2,27,8,455 \$2,353,957 \$1 \$2 \$2,4933 \$2,317,633 \$2,317,553 \$2 \$2,4933 \$2,317,633</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>452</td><td>14</td><td>\$ 405</td><td></td><td>•</td><td>•</td><td>- -</td></th<>	Mon-Grandfaltered T47 High Minuel-High Winer 5 59.966 5 101,839 5 123,366 5 102,951 8 16,814 5 - 5 6,453 5 991 5 34,261 5 565,844 5 524,119 5 TOTAL \$2,612,396 \$4,405,042 \$5,329,129 \$4,462,911 \$3,538,238 \$2,381,028 \$72,328 \$131,503 \$122,530 \$2,4,932 \$3,30,466 \$1,524,652 \$2,566,177 \$22,728,145 \$2 Residential \$2,612,396 \$4,405,042 \$5,329,129 \$4,462,911 \$3,538,238 \$2,91,333 \$4,4782 \$26,652 \$4,362 \$2,566,177 \$22,728,145 \$2 Residential \$2,612,396 \$4,462,911 \$3,538,238 \$2,91,333 \$4,4782 \$26,652 \$4,4963 \$4,322,310 \$8,353,357 \$1 \$2 SALES HLF CLASSES \$2,64,753 \$4,74,311 \$3,65,110 \$2,81,320,353 \$4,7482 \$2,665,177 \$2,27,8,455 \$2,353,957 \$1 \$2 \$2,4933 \$2,317,633 \$2,317,553 \$2 \$2,4933 \$2,317,633										452	14	\$ 405		•	•	- -
TOTAL \$2,612,396 \$4,405,042 \$6,329,129 \$4,462,911 \$3,538,238 \$2,381,028 \$7,2,328 \$131,503 \$152,530 \$24,932 \$330,486 \$1,524,652 \$25,665,177 \$22,728,745 \$2 Residential \$2,612,396 \$4,405,042 \$6,329,129 \$4,462,911 \$3,538,128 \$291,333 \$44,782 \$26,923 \$4,352 \$25,665,177 \$222,728,745 \$2 Residential \$5,966,552 \$1,66,067 \$1,950,152 \$1,950,162 \$1,950,162 \$1,950,152 \$1,530,010 \$8,87,303 \$24,472 \$26,622 \$4,782 \$26,691 \$3,377,553 \$1,16,096 \$9,426,310 \$8,335,397 \$21,121 \$26,121 \$2,7766 \$44,782 \$2,766 \$4,4,782 \$2,766 \$4,4,782 \$2,766 \$4,4,948 \$6,9193,4 \$2,377,553 \$1,116,096 \$2,377,553 \$2,377,553 \$5 \$1,116,096 \$2,116,096 \$2,120,188 \$1,934,591 \$1,934,591 \$2,0706 \$5,117 \$2,274,494 \$1,926,516 \$1,116,881 \$9,836,529 \$1,117 \$2,274,494 \$1,926,516 \$1,116,881 \$9,836,529 \$27,116 \$5,117 \$2,724,	TOTAL \$2,612,396 \$4,405,042 \$5,329,129 \$4,462,911 \$3,538,238 \$2,31,503 \$15,503 \$2,4,932 \$3,30,466 \$1,524,652 \$25,665,177 \$22,728,145 \$2 Residential \$2,612,396 \$4,405,042 \$5,329,129 \$4,462,911 \$3,538,238 \$2,91,333 \$4,782 \$15,503 \$2,4,932 \$3,90,466 \$9,422,310 \$8,953,957 \$1 Residential \$966,252 \$1,616,367 \$1,950,152 \$1,630,03010 \$8,87,340 \$2,91,333 \$4,4782 \$2,6522 \$4,396 \$1,620,465 \$2,377,523 \$1 \$3,533,957 \$1 \$1 \$3,533,957 \$1 \$1 \$2,105 \$4,731 \$3,533,957 \$1 \$1 \$2,105 \$4,733 \$2,377,523 \$2,47,313 \$3,657,105 \$6,307,523 \$2,47,313 \$3,657,105 \$6,307,523 \$2,766 \$4,4,782 \$2,766 \$4,4,782 \$2,766 \$4,4,685 \$2,377,523 \$2,377,523 \$5 \$2,7766 \$6,913,46 \$2,377,523 \$5 \$2,766 \$5,1046 \$9,422,310 \$8,953,553 \$5 \$1,712 \$5,1691 \$1,691,566 \$2,1775,533 <td< td=""><td></td><td>\$ 50 956</td><td>\$ 101 R30</td><td>\$ 123 366</td><td>\$ 102 951</td><td>81654 S</td><td>54 352 \$</td><td>15.814 \$</td><td>1</td><td>5 453</td><td>891</td><td>\$ 4746</td><td>8</td><td>22 8</td><td>\$ 524.119</td><td>\$ 61</td></td<>		\$ 50 956	\$ 101 R30	\$ 123 366	\$ 102 951	81654 S	54 352 \$	15.814 \$	1	5 453	891	\$ 4746	8	22 8	\$ 524.119	\$ 61
TOTAL \$ 2,612,396 \$ 4,405,042 \$ 5,329,129 \$ 4,462,911 \$ 3,538,238 \$ 2,31,503 \$ 152,530 \$ 2,4932 \$ 330,466 \$ 1,524,652 \$ 25,666,177 \$ 22,728,745 \$ 2 Residential \$ 966,252 \$ 1,960,175 \$ 1,950,162 \$ 1,170,16,162 \$ 1,960,162 \$ 1,950,162	TOTAL \$ 2,612,396 \$,4465,042 \$,539,129 \$,4,462,911 \$,5,38,238 \$,2,31,503 \$ 152,530 \$ 2,4,932 \$ 330,466 \$ 1,524,652 \$ 25,666,177 \$ 22,728,745 \$ 2 \$ 1 Residential \$ 966,252 \$ 1,960,152 \$ 1,950,152 \$ 1,530,3010 \$ 887,340 \$ 291,333 \$ 44,782 \$ 26,652 \$ 4,352 \$ 2691,046 \$ 9,422,310 \$ 8,353,957 \$ 1 Residential \$ 966,252 \$ 1,960,152 \$ 1,950,152 \$ 1,500,031 \$ 8,651,11 \$ 24,782 \$ 26,652 \$ 4,362 \$ 2,691,934 \$ 2,377,523 \$ 1 SALESLLF CLASSES \$ 1,166,097 \$ 1,919,990 \$ 2,303,4591 \$ 1,533,711 \$ 1,002,961 \$ 24,732 \$ 1,616,991 \$ 1,911,18,801 \$ 9,333,753 \$ 1 \$ 1,002,961 \$ 2,2172 \$ 3,438 \$ 2,291,903 \$ 2,377,523 \$ 1 \$ 1,002,961 \$ 2,1,015 \$ 1,016,997 \$ 1,918,990 \$ 2,334,591 \$ 1,533,711 \$ 1,002,961 \$ 2,1,121 \$ 9,64,39 \$ 1,46,861 \$ 2,201,498 \$ 2,291,498 \$ 2,291,498 \$ 2,291,498 \$ 2,291,498 \$ 2,291,498 \$ 2,21,116,892 \$ 2,631,71 \$ 2,		A 400	coo'i oi 🄺	A	100'701	too! o	100,100			2010		•	•			•
Residential \$ 966,252 \$ 1,616,367 \$ 1,950,152 \$ 1,530,337 \$ 1,303,010 \$ 8,87,340 \$ 291,333 \$ 44,782 \$ 2,6522 \$ 4,352 \$ 120,216 \$ 581,046 \$ 9,422,310 \$ 8,353,357 \$ 1< SALES HIF CLASSES \$ 2,500,17 \$ 4,52,120 \$ 544,753 \$ 4,731 \$ 3,55,110 \$ 2,610,15 \$ 1,948 \$ 1,46,851 \$ 2,691,934 \$ 2,377,553 \$ 1 SALES LIF CLASSES \$ 1,16,097 \$ 1,918,990 \$ 2,330,188 \$ 1,934,591 \$ 1,533,711 \$ 1,002,951 \$ 24,822 \$ 16,922 \$ 1,4394 \$ 6,521,08 \$ 11,118,881 \$ 9,365,529 \$ 1 Non-Grandfathered HLF CLASSES \$ 2,1,206 \$ 3,4,337 \$ 3,4,337 \$ 3,4,337 \$ 1,602,516 \$ 1,6016 \$ 1,118,881 \$ 9,365,529 \$ 1 \$ 1,002,561 \$ 2,1717 \$ 9,4,394 \$ 6,522,108 \$ 11,118,881 \$ 9,836,529 \$ 1 \$ 1,002,561 \$ 2,07,568 \$ 1,022 \$ 1,017 \$ 1,017 \$ 2,07,558 \$ 1,012 \$ 1,012 \$ 1,012 \$ 1,012 \$ 1,012 \$ 1,012 \$ 1,022 \$ 1,012 \$ 1,012 \$ 1,012 \$ 1,012 <td>Residential \$ 966,252 \$ 1,66,636 \$ 1,950,152 \$ 1,530,637 \$ 1,303,010 \$ 8,87,340 \$ 291,333 \$ 44,782 \$ 2,6622 \$ 4,352 \$ 120,216 \$ 581,046 \$ 9,422,310 \$ 8,353,957 \$ 1 SALESHLF \$ 2,300,017 \$ 452,120 \$ 544,753 \$ 47,311 \$ 365,110 \$ 261,211 \$ 24,822 \$ 169,69 \$ 146,861 \$ 2,40,851 \$ 2,601,934 \$ 2,377,553 \$ 1 SALESHLF CLASSES \$ 1,16,097 \$ 1,918,990 \$ 2,330,188 \$ 1,533,711 \$ 1,600 \$ 51,121 \$ 9,8,439 \$ 6,691 \$ 146,861 \$ 9,836,529 \$ 1 Non-Grandlathered HLF CLASSES \$ 2,1,16,097 \$ 1,918,990 \$ 2,330,188 \$ 1,533,711 \$ 1,002,961 \$ 5,1,121 \$ 9,8,439 \$ 6,691 \$ 134,894 \$ 652,108 \$ 11,118,881 \$ 9,836,529 \$ 1 \$ 10,01-6,63 \$ 1,4,198 \$ 9,836,529 \$ 1 \$ 10,01 \$ 1,118,881 \$ 9,84,39 \$ 6,016 \$ 2,1,118,881 \$ 9,836,529 \$ 1 \$ 10,213 \$ 1,20,216 \$ 1,34,494 \$ 6,21,618 \$ 1,20,216 \$ 1,20,216 \$ 1,2116,109 \$ 1,2116,109 \$ 1,2116,10<</td> <td></td> <td>\$2,612,396</td> <td></td> <td>5,329,129</td> <td></td> <td></td> <td>12,381,028</td> <td></td> <td>131,503</td> <td>152,530</td> <td></td> <td></td> <td></td> <td></td> <td>\$22,728,745</td> <td></td>	Residential \$ 966,252 \$ 1,66,636 \$ 1,950,152 \$ 1,530,637 \$ 1,303,010 \$ 8,87,340 \$ 291,333 \$ 44,782 \$ 2,6622 \$ 4,352 \$ 120,216 \$ 581,046 \$ 9,422,310 \$ 8,353,957 \$ 1 SALESHLF \$ 2,300,017 \$ 452,120 \$ 544,753 \$ 47,311 \$ 365,110 \$ 261,211 \$ 24,822 \$ 169,69 \$ 146,861 \$ 2,40,851 \$ 2,601,934 \$ 2,377,553 \$ 1 SALESHLF CLASSES \$ 1,16,097 \$ 1,918,990 \$ 2,330,188 \$ 1,533,711 \$ 1,600 \$ 51,121 \$ 9,8,439 \$ 6,691 \$ 146,861 \$ 9,836,529 \$ 1 Non-Grandlathered HLF CLASSES \$ 2,1,16,097 \$ 1,918,990 \$ 2,330,188 \$ 1,533,711 \$ 1,002,961 \$ 5,1,121 \$ 9,8,439 \$ 6,691 \$ 134,894 \$ 652,108 \$ 11,118,881 \$ 9,836,529 \$ 1 \$ 10,01-6,63 \$ 1,4,198 \$ 9,836,529 \$ 1 \$ 10,01 \$ 1,118,881 \$ 9,84,39 \$ 6,016 \$ 2,1,118,881 \$ 9,836,529 \$ 1 \$ 10,213 \$ 1,20,216 \$ 1,34,494 \$ 6,21,618 \$ 1,20,216 \$ 1,20,216 \$ 1,2116,109 \$ 1,2116,109 \$ 1,2116,10<		\$2,612,396		5,329,129			12,381,028		131,503	152,530					\$22,728,745	
Hesternial 5 96:252 \$1,090,152 \$1,090,152 \$1,090,153 \$1,090,153 \$1,090,154 \$2,500 \$44,82 \$2,502 \$4,502 \$1,502 \$2,601,04 \$4,523 \$1,000 \$6,523 \$4,500 \$5,500 \$	Hestermal 5 96:252 \$1,900,152 \$1,900,152 \$1,900,153 \$1,303,010 \$ 86,340 \$ 291,343 \$ 44,782 \$ 26,522 \$ 2,576 \$ 4,592 \$ 1,6017 \$ 45,510 \$ 0,533,537 \$ 3,537,523 \$ 54,515 \$ 5,47,51 \$ 365,110 \$ 26,121 \$ 76,112 \$ 24,936 \$ 146,851 \$ 2,69134 \$ 2,377,523 \$ 5 \$ SALELS HF CLASSES \$ 1,16007 \$ 4,592 \$ 2,337,153 \$ 4,311 \$ 365,110 \$ 26,121 \$ 76,112 \$ 24,938 \$ 146,851 \$ 2,69134 \$ 2,377,523 \$ 5 \$ SALELS HF CLASSES \$ 1,16007 \$ 4,592 \$ 2,330,198 \$ 1,934,591 \$ 1,533,711 \$ 1,002,951 \$ 3,29,000 \$ 51,121 \$ 9,943 \$ 1,3494 \$ 5,151,118,881 \$ 9,836,559 \$ 1 \$ Non-Grandiamered HLF CLASSES \$ 1,178 \$ 3,374 \$ 551 \$ 4,051 \$ 9,168 \$ 2,07,558 \$ 182,101 \$ 20,175 \$ 6,196 \$ 2,117 \$ 3,377 \$ 1,596 \$ 3,4,393 \$ 3,4,393 \$ 3,578 \$ 2,781 \$ 1,002,951 \$ 20,755 \$ 6,998 \$ 0,176 \$ 5,171 \$ 5,264,394 \$ 1,36,494 \$ 1,36,494 \$ 1,34881 \$ 9,836,559 \$ 1 \$ Non-Grandiamered HLF CLASSES \$ 1,316,007 \$ 1,497 \$ 3,34,591 \$ 1,337,11 \$ 1,000 \$ 5,117 \$ 3,377 \$ 4,558 \$ 182,101 \$ 2,274,494 \$ 1,978,559 \$ 182,101 \$ \$ 1,000 \$ 0,000 \$ 5,117 \$ 3,377 \$ 5,518 \$ 134,698 \$ 2,07,558 \$ 182,101 \$ \$ 1,000 \$ 1,00														•	P 0 757 057	
SALES HF CLASSES \$ 1,20017 \$ 24,321 \$ 3,30110 \$ 2,0110 \$ 2,0111 \$ 2,0011 \$ 4,0211 \$ 1,00112 \$ 1,0112 \$ 1,00112 \$ 1,010111 \$ 1,010111 \$ 1,0101112 \$ 1,010112 \$ 1,010112 \$ 1,010112 \$ 1,010112 \$ 1,010112 \$ 1,010112 \$ 1,0101112	SALES INF CASSES * 24,022 * 24,022 * 24,022 * 2,001 * 4,021 * 2,07,558 * 1,07 * 4,051 * 1,118,881 * 3,07,55 * 1,05 * 4,051 * 1,118,881 * 2,07,558 * 1,07 * 2,117 * 3,374 * 551 * 4,051 * 1,051 * 1,051 * 1,05 * 2,07,558 * 1,978,659 * 1,978,659 * 1,01 * 2,0175 * 2,0175 * 5,117 * 2,017 * 5,117 * 2,017 * 5,117 * 2,0175 * 4,051 * 2,173 * 3,374 * 5,51 * 4,051 * 2,07,558 * 1,978,659 * 1,978,639 * 1,076 * 2,224,494 * 1,978,636 * 2,07,558 * 1,978,636 * 2,037,7 * 1,172 * 2,037,7 * 1,172 * 2,037,7 * 1,172 * 2,224,494 * 1,978,636 * 1,978,636 * 1,978,636 * 1,172 * 1,35,478 * 2,224,494 * 1,978,636 * 1,978,636 * 1,978,636 * 1,978,636 * 1,172 * 1,173 * 1,173 * 1,17 * 1,1				1,950,152		5 1,303,010	887,340 4		44,782		4,352		A 6	₽ ₩	0,303,907 0,303,907	_
On-Grandrathered HLF CLASSES \$ 21,596 \$ 3,430 \$ 2,530,100 \$ 1,535,111 \$ 1,007 \$ 3,570 \$ 3,570 \$ 3,570 \$ 3,570 \$ 3,570 \$ 2,701 \$ 3,570 \$ 2,117 \$ 3,574 \$ 5,51 \$ 4,051 \$ 9,168 \$ 2,07,558 \$ 182,101 \$ Non-Grandrathered HLF CLASSES \$ 2,169 \$ 2,175 \$ 6,196 \$ 2,177 \$ 3,374 \$ 5,51 \$ 4,051 \$ 9,168 \$ 2,07,558 \$ 182,101 \$ Non-Grandrathered HLF CLASSES \$ 2,169 \$ 2,07558 \$ 182,101 \$ Non-Grandrathered HLF CLASSES \$ 2,175 \$ 3,374 \$ 5,51 \$ 4,051 \$ 9,168 \$ 2,07,558 \$ 182,101 \$ Non-Grandrathered HLF CLASSES \$ 2,175 \$ 3,374 \$ 3,374 \$ 5,51 \$ 4,051 \$ 9,168 \$ 2,07,558 \$ 182,101 \$ Non-Grandrathered HLF CLASSES \$ 2,177 \$ 3,374 \$ 3,571 \$ 135,478 \$ 2,07,558 \$ 1,978,639 \$ \$ 1,172 \$ 1,172 \$ 2,6377 \$ 135,478 \$ 1,978,639 \$ \$ 1,978,639 \$	On-Grandfathered HLF CLASSES \$ 21,596 \$ 34,393 \$ 4,397 \$ 36,591 \$ 20,175 \$ 5,517 \$ 20,508 \$ 1,37,175 \$ 20,598 \$ 1,371 \$ 5,517 \$ 20,558 \$ 182,101 \$ 00-Grandfathered HLF CLASSES \$ 21,596 \$ 34,33 \$ 34,318 \$ 4,519 \$ 36,594 \$ 308,591 \$ 20,552 \$ 66,998 \$ 8,660 \$ 7,172 \$ 1,172 \$ 26,377 \$ 135,478 \$ 2,224,494 \$ 1,978,536 \$ 192,101 \$ 00-Grandfathered LLF CLASSES \$ 228,433 \$ 383,127 \$ 462,539 \$ 386,594 \$ 308,591 \$ 209,352 \$ 66,998 \$ 8,660 \$ 7,172 \$ 1,172 \$ 26,377 \$ 135,478 \$ 2,224,494 \$ 1,978,536 \$ 1,978,636 \$ \$		110,082	402,120	5 044,733	_	011,000 4	4 117107 4			776'01	1001'Z		÷.		9 6	
Non-Grandiantered LLF CLASSES \$ 228,433 \$ 383,127 \$ 462,539 \$ 386,594 \$ 308,591 \$ 209,352 \$ 66,998 \$ 8,660 \$ 7,172 \$ 1,172 \$ 26,377 \$ 135,478 \$ 2,224,494 \$ 1,978,636 \$	Non-Grandrathered LLF CLASSES \$ 228,433 \$ 383,127 \$ 462,539 \$ 386,594 \$ 308,591 \$ 209,352 \$ 66,998 \$ 8,660 \$ 7,172 \$ 1,172 \$ 26,377 \$ 135,478 \$ 2,224,494 \$ 1,978,636 \$		\$ 1,110,097	0 1 1 0 1 9 1 0 1 0 0 0 0 0 0 0 0 0 0 0	\$ 2,330,100 • 41,407	3 1,934,091	117,000,14	102,300,14			30,439	551	4 054 034	\$ 01.52		9 €	-
			060'17 4	4 302 127	41,451 41,451	4 30,570	200,501	20,173 4			7172	1173	1 26	\$ 135.478		•	
				171'000 1	ecc'704 #							*	2	2 1 000 A	i		

Page 1 of 4

SMBA-NH_2007_Summer_OffPeak.xls Cost Detail

77

N.	lorthern Utilities - P MPSHIRE DIVISION simplified Market Base - Alloctor (SMBA) Calculations <u>cost Summary</u>
14. JC:6 2002/E1/E	Northern Utilities - h Simplified Market Bas, . <u>Cost Summary</u>

Summary of Gas Costs

1/70,18 1/470,18	Introductor	Characterize String Stren Stren Str	Line	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SU	SUMMER	
Image: second	mem 17.01 1	Image: Marching and the stand s	TOTAL COMMODITY										,							
Mathematication 1 3	Matrix	Matrix 1 <td>Res Heat</td> <td>\$ 1,270,182</td> <td>\$ 1.947.263</td> <td>69</td> <td></td> <td>\$ 1,638,411</td> <td>1187.098</td> <td>561424 5</td> <td>304.028</td> <td>707 037</td> <td>C 255 256</td> <td>\$ 304.053</td> <td>C RER 573</td> <td>\$ 17 GE2 7GB</td> <td>C 10 282 477</td> <td></td> <td>680 321</td>	Res Heat	\$ 1,270,182	\$ 1.947.263	69		\$ 1,638,411	1187.098	561424 5	304.028	707 037	C 255 256	\$ 304.053	C RER 573	\$ 17 GE2 7GB	C 10 282 477		680 321	
Montenente 10,103 17,273 10,003 17,	Montenent 11/10	Mathematication Explore County Explore County Explore	Res General	\$ 24,332	69	69		28,108	23,602	17 106 5	15 221	17 130	\$ 13 78.8	16 561	COULTER COU	C 760 571	C 160 580		00 080	
Antimelyewee 5 0,5(3)	Antione Control Control <t< td=""><td>Image: state in the s</td><td>G50 Low Annual-Low Winter</td><td>\$ 151.194</td><td>. 64</td><td></td><td>\$ 174 926</td><td>168 376</td><td>140.285</td><td>E 115 047 E</td><td>111 450</td><td>117 511</td><td>E 114 200</td><td>E 121 071</td><td>C 121 042</td><td>C 1 704 000</td><td></td><td></td><td>705 220</td></t<>	Image: state in the s	G50 Low Annual-Low Winter	\$ 151.194	. 64		\$ 174 926	168 376	140.285	E 115 047 E	111 450	117 511	E 114 200	E 121 071	C 121 042	C 1 704 000			705 220	
Anomelyse Single Sing	Montenine Total (Mark) Total (Mark) <td>Montension Strain Strain Strain</td> <td>G40 Low Annual-High Winter</td> <td>5 624 154</td> <td>- 64</td> <td>- 64</td> <td>C 006 180</td> <td>C 823018</td> <td>570104</td> <td></td> <td>210Z0</td> <td></td> <td>02002</td> <td>110'171 a</td> <td>4 121,043</td> <td></td> <td>100,000 tel</td> <td>•</td> <td>022,001</td>	Montension Strain Strain Strain	G40 Low Annual-High Winter	5 624 154	- 64	- 64	C 006 180	C 823018	570104		210Z0		02002	110'171 a	4 121,043		100,000 tel	•	022,001	
Manuschweiten 50771 Transing 60701 Control Contro Control <thcontrol< th=""> <</thcontrol<>	Montention 5077 Table 3 Constant Constant <thconstant< th=""> <thconstant< th=""> <thc< td=""><td>Montension 6 (7):01</td><td>G51 Med Annual-Low Winter</td><td>306.952</td><td>- 65</td><td>6</td><td>278 944</td><td>C 352 318</td><td>208 757</td><td>2 210 204 E</td><td>107 507</td><td>Cac Moc</td><td>1010101</td><td>4000 CHC 3</td><td>e 250,500</td><td># 0,240,302</td><td>5 0 4 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td></td><td>00001210</td></thc<></thconstant<></thconstant<>	Montension 6 (7):01	G51 Med Annual-Low Winter	306.952	- 65	6	278 944	C 352 318	208 757	2 210 204 E	107 507	Cac Moc	1010101	4000 CHC 3	e 250,500	# 0,240,302	5 0 4 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		00001210	
Montenier 1 2	Montenies 10001 20001	Mentellion Constrained Constrained <thconstrained< th=""> <thconstrained< th=""></thconstrained<></thconstrained<>	G41 Med Annual-High Winfer	6 657 781			C 1 176 207				101,002	CDC +07	100'261 0	000°017 0	010'007 4	104,004,04	C 122,110		011 017	
Mathematication 1	Antowneywork Total was a stand was a s	Anomelynamic fields Total	G52 Hinh Annual ow Winter	C 250 775	C 375 754		207'000'1 A	10101040	012,000	1 110 107 0	0C+171 a	100'88 0	P 00,001	4 109,U09	404'LA	0 0,024,040	001001000	-	193,110	
Matrix for inversion Constraint of the const	Marken for formalization Constrained for finance Constrained for finance <thconstrained finance<="" for="" th=""> <thconstrained for<="" td=""><td>Internation 1.000</td><td></td><td>400 F76</td><td></td><td></td><td>444 010 444</td><td>474'AIO 4</td><td>600'007</td><td>110,199</td><td>1,398</td><td>400'40 4</td><td>4 00,815</td><td>075'99</td><td>8/1/2/1 \$</td><td>CC/1907 4</td><td>41,997,089</td><td></td><td>C00, F8C</td></thconstrained></thconstrained>	Internation 1.000		400 F76			444 010 444	474'AIO 4	600'007	110,199	1,398	400'40 4	4 00,815	075'99	8/1/2/1 \$	CC/1907 4	41,997,089		C00, F8C	
Internation (with the second	Internation (with the first sector) (1)(1) (1	Image: in transmission Image: in transmission<	Non-Grandfatherad T501 nu Annial I nu Minter	10 200	9 6	., 	00C'067 ¢	4 234,34U	50/1/1 0	81,941 4	503,15	223,754	\$ /5,/86	\$ 60,139		\$ 2,142,447	\$ 1,536,947	1 9 (006,609	
Internation (internation (internatinternatinteration (internation (internation (internation (intern	Image: 1 (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	Antional constraints Constraint constraints Constraints <thconstraints< th=""> Constraints <</thconstraints<>	Non Crandiathered 740 Jam American Unite Minter	000171 4	9 G	••	4 10,013	079'61 4	11,640	2//2 4	3,421 4	3,094	3,155	4,285		\$ 12/ 320	5 98,965	1	202,82	
manual manuu manual manua manual manual manual manual manual manual manual ma	Image: 1 Mark	Image: 1		00000		•		175'NG 4	C80,05 0	10,223	8,U3Z	966,7	¢¢7'9 ¢	\$ 10,804	\$ 25,904	391,654	\$ 316,837	•	19,41/	
Name Name <th< td=""><td>Name Name <th< td=""><td>International matrix functional matrix functina matrix functional matrix functional matrix functi</td><td>Non-Grendrathered 151 Med Annual-Low Winter</td><td>760'0G \$</td><td>\$ 60,770</td><td>6</td><td>\$ 61,378</td><td>\$ 57,277</td><td>\$ 48,813</td><td>5 36,198 \$</td><td>32,879</td><td>35,606</td><td>\$ 30,746</td><td>\$ 35,534</td><td>\$ 38,555</td><td>\$ 554,003</td><td>\$ 344.484</td><td>\$</td><td>209,519</td></th<></td></th<>	Name Name <th< td=""><td>International matrix functional matrix functina matrix functional matrix functional matrix functi</td><td>Non-Grendrathered 151 Med Annual-Low Winter</td><td>760'0G \$</td><td>\$ 60,770</td><td>6</td><td>\$ 61,378</td><td>\$ 57,277</td><td>\$ 48,813</td><td>5 36,198 \$</td><td>32,879</td><td>35,606</td><td>\$ 30,746</td><td>\$ 35,534</td><td>\$ 38,555</td><td>\$ 554,003</td><td>\$ 344.484</td><td>\$</td><td>209,519</td></th<>	International matrix functional matrix functina matrix functional matrix functional matrix functi	Non-Grendrathered 151 Med Annual-Low Winter	760'0G \$	\$ 60,770	6	\$ 61,378	\$ 57,277	\$ 48,813	5 36,198 \$	32,879	35,606	\$ 30,746	\$ 35,534	\$ 38,555	\$ 554,003	\$ 344.484	\$	209,519	
And the former of the	International field 0.033 1.0106	International state in the state i	Non-Grandfalhered 141 Med Annual-High Winter	\$ 183,712	\$ 280,328	••	\$ 280,681	\$ 236,323	\$ 172,032	\$ 82,137 \$	45,714	41,357	\$ 40,279	\$ 58,530	\$ 125,848	\$ 1,876,197	\$ 1,482,332	\$	393,866	
Internation were 1 1,000 5,10,000 5,10,100 <	Internation for the formation formation formation for the formation formation formation for the formation fore formation formation formation formation formation formation fo	Internation for the properties of the propertis of the propertity of the properties of the proper	Non-Grandfathered T52 High Annual-Low Winter	\$ 8,754	\$ 10,233	69	\$ 11,986	\$ 10,465	9.776	\$ 7,103 \$	1,797	10,337	\$ 9,657	\$ 10,388	\$ 10,888	\$ 119,490	\$ 63,320	\$	56,170	
33.06.06 5.710.1 5.72.201 5.772.01 5.70.2010 5.70.2010 5.70.2010 5.70.2010 5.70.2010 5.70.2010 5.70.2010 5.70.2010 5.70.2011 5.70.2011 5.70.2011 5.70.2011 5.70.2011 5.70.2011 5.70.2011 5.70.2011 5.70.2011 5.70.2011 5.70.2011 5.70.2011 5.70.7011 5.7	3.0.0.06 5.7.0.11 5.7.0.20	3360.06 5.781/1.7 6.782.30 6.796.30 6.796.30 6.707.30 6.700.30	Non-Grandfethered T42 High Annual-High Winter	\$ 84,560	\$ 128,897	\$ 151,320	\$ 129,109	\$ 108,899	5 78,588	\$ 37,340 \$	20,322	\$ 27,005	\$ 17,119	\$ 26,511	\$ 57,319	\$ 866,989	\$ 681,373	\$	185,616	
Mid 517-06-14 517-06-15 507-016 517-00-15 507-014 517-00-15 507-014 517-00-15 507-014 517-00-15 507-014 517-00-15 507-014 517-00-15 507-014 517-00-15 507-014 517-00-15 507-014 517-00-15 517-00-15 507-014 517-00-15 517-00-15 507-014 517-00-15 517-00-15 517-00-15 507-014 517-01-15 500-015 517-01-15 500-015 517-01-15 500-015 517-01-15 500-015 517-01-15 500-015 517-01-15 500-015 517-01-15 500-015 517-01-15 500-015 517-01-15 500-015 517-01-15 500-05 517-01-15 500-05 517-01-15 500-05 517-01-15 500-05 517-01-15 500-05 517-01-15 500-05 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15 517-01-15<	Mid 517-04-51 517-	Internationality (Internationality) 11.245/14 1.2473/15 1.2471/15 1.2471/15 1.2471/15 1.2471/15 1.2471/15 1.2471/15 1.2471/15 1.2471/15 1.2471/15 <th< td=""><td>TOTAL</td><td>\$ 3,863,095</td><td>\$ 5,781,142</td><td>69</td><td></td><td>4,005</td><td></td><td>1,810,350</td><td></td><td>1,232,998</td><td>999,958</td><td>1,354,098</td><td>\$ 2,669,590</td><td>\$ 39,869,132</td><td>\$30,730,052</td><td></td><td>139,080</td></th<>	TOTAL	\$ 3,863,095	\$ 5,781,142	69		4,005		1,810,350		1,232,998	999,958	1,354,098	\$ 2,669,590	\$ 39,869,132	\$30,730,052		139,080	
If If Concerns 17/06/15 5/17/06/15 5/17/06/15 5/17/06/15 5/17/16/15 5/17/	If If and If If CASES 17/06/15 5/17/06/15 5/17/06/15 5/17/17/17 5/17/17 5/17/17 5/17/17 5/17/17 5/17/17 5/17/17 5/17/17 5/17/17	Matrix 7.18/bit <																		
	LFL ULANSES 1,40(3) 2,302(3) 2,402(3) 5,433(4) 5,443(4)			\$ 1,294,514	\$ 1,977,382					578,530		314,176	\$ 269,044			\$ 13,232,370		\$	780,303	
ULF CLASSES 514(4) 5.2030 5.20304 5.30364 5.132.8 4.103 5.2017/30 5.20007 5.90617 5.21717/30 7.2000 5.2017/30 5.20007 5.90617 5.21717/30 7.2000 5.2017/30 7.20007 5.90007	LUL CLASES 5 / 1/3 / 1 / 1/3 / 1	Tut: Curses: 1,141,40 2,0000 2,9000 5,90011 5,9001 5,9001 <t< td=""><td>DALES HLF CLASSES</td><td>\$ /08'871</td><td>\$ 923,821</td><td>\$ 1,032,061</td><td></td><td></td><td></td><td></td><td></td><td>386,448</td><td>\$ 373,567</td><td>\$ 424,380</td><td>\$ 547,037</td><td>\$ 7,687,115</td><td></td><td>\$</td><td>568,219</td></t<>	DALES HLF CLASSES	\$ /08'871	\$ 923,821	\$ 1,032,061						386,448	\$ 373,567	\$ 424,380	\$ 547,037	\$ 7,687,115		\$	568,219	
andialitative ULF_CLASES 3 71/29 8 96/61 5 00001 5 5 00011 5 60001 5 5 00011 5 5 00011 5 5 00011 5 5 5 00011 5 5 00011 5 5 00011 5 5 00011 5 5 00011 5 5 00011 5 5 00011 5 5 00011 5 5 00011 5 00011 5 5 00011 5 <	andialtrated ILF CLASSES 3 71239 5 90041 5 00041 5 60070 5 90041 5 60070 5 90041 5 60041 5	andialitated I/L CLASES 5 7/208 6 90.01 5 00.000 5 00.017 5 3.104.00 5 00.017 5 .104.00 5 00.017 5 .104.00 5 00.017 5 .104.00 5 .00077 5 .104.00 5 .00077 5 .104.00 5 .00077 5 .104.00 5 .00077 5 .104.00 5 .00077 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.00 5 .200.017 5 .104.01 5 .200.017 5 .104.01 5 .200.017 5 .104.01 5 .200.017 5 .104.01 5 .200.017 5 .104.01 5 .200.017 5 .104.01 5 .200.017 5 .104.01 5 .200.017 5 .104.01 <t< td=""><td>SALES LLF CLASSES</td><td>\$ 1,481,461</td><td>\$ 2,320,810</td><td>\$ 2,745,303</td><td></td><td></td><td>÷</td><td></td><td>~</td><td>407,375</td><td>\$ 250,137</td><td>\$ 373,052</td><td>\$ 966,727</td><td>\$ 15,013,995</td><td></td><td>₩</td><td>842,216</td></t<>	SALES LLF CLASSES	\$ 1,481,461	\$ 2,320,810	\$ 2,745,303			÷		~	407,375	\$ 250,137	\$ 373,052	\$ 966,727	\$ 15,013,995		₩	842,216	
Arbitity 3 06:969 4 760/05 5 395:540 5 75,561 5 63.65 5 209/07 5 .134,840 5 .2400542 5 .400542 Arbitity 1 4024 1 4024 1 4003 1 3096 5 4016 4 4706 5 7566 5 63.65 5 63.65 6 3.06 5 63.66 5 4069 5 7.33 5 300 5 7.30<	ArMathined LIF CLASES. 3 06:969 5 470:002 3 135,700 5 136,70 5 136,70 <td>ArMathmed LF CLASSES 3 00.593 4 480.463 5 470.002 3 395.700 5 135,700 5 75.961 5 61.592 5 130.401 5 200.072 3 131.4100 5 2.4005.012 APMATIY 3 704 5 703 5 703 5 703 5 703 6 703 5 713.97 5 4069 APMATIY 3 704 5 703 5 703 5 703 5 704 5 703<td>Von-Grandfathered HLF CLASSES</td><td></td><td></td><td>69</td><td></td><td>\$ 83,561 \$</td><td>1 70,230</td><td></td><td></td><td>49,038</td><td>\$ 43,558</td><td>\$ 50,207</td><td>\$ 58,065</td><td>\$ 800,812</td><td>\$ 506,768</td><td></td><td>294,044</td></td>	ArMathmed LF CLASSES 3 00.593 4 480.463 5 470.002 3 395.700 5 135,700 5 75.961 5 61.592 5 130.401 5 200.072 3 131.4100 5 2.4005.012 APMATIY 3 704 5 703 5 703 5 703 5 703 6 703 5 713.97 5 4069 APMATIY 3 704 5 703 5 703 5 703 5 704 5 703 <td>Von-Grandfathered HLF CLASSES</td> <td></td> <td></td> <td>69</td> <td></td> <td>\$ 83,561 \$</td> <td>1 70,230</td> <td></td> <td></td> <td>49,038</td> <td>\$ 43,558</td> <td>\$ 50,207</td> <td>\$ 58,065</td> <td>\$ 800,812</td> <td>\$ 506,768</td> <td></td> <td>294,044</td>	Von-Grandfathered HLF CLASSES			69		\$ 83,561 \$	1 70,230			49,038	\$ 43,558	\$ 50,207	\$ 58,065	\$ 800,812	\$ 506,768		294,044	
CMACITY Composition Composition <thcompit< th=""> <thcompit< th=""> Compositi</thcompit<></thcompit<>	JUNCL	CMACITY Composition Composition <thcomposition< th=""> <thcomposition< th=""> <th< td=""><td>Non-Grandfathered LLF CLASSES</td><td></td><td></td><td>67</td><td>\$ 470,082</td><td>\$ 395,549 \$</td><td>3 286,705</td><td></td><td></td><td>15,961</td><td>\$ 63,652</td><td>\$ 95,845</td><td>\$ 209,072</td><td>e</td><td>2</td><td>€</td><td>654,298</td></th<></thcomposition<></thcomposition<>	Non-Grandfathered LLF CLASSES			67	\$ 470,082	\$ 395,549 \$	3 286,705			15,961	\$ 63,652	\$ 95,845	\$ 209,072	e	2	€	654,298	
APACITY 1 1 <th colspa<="" td=""><td>Amolicity 1 4 1</td><td>APACITY Constraint Constraint</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th>	<td>Amolicity 1 4 1</td> <td>APACITY Constraint Constraint</td> <td></td>	Amolicity 1 4 1	APACITY Constraint Constraint																	
APACITY Anomelia 1	APACITY Anomelian (1/2)	APACITY APACITY at 14.21 4.4.21 5.4.59 5																		
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Image: constraint set in the set	3ASE CAPACITY																	
end 778 773 <td>method 778 778 778 778 779 7700 770 770 770</td> <td>end 773<td>tes Heat</td><td>\$ 14.024</td><td>69</td><td>•</td><td>\$ 13 996</td><td>\$ 14.016</td><td>14 011</td><td></td><td>`</td><td>14 224</td><td>14 537</td><td>4 15 150</td><td>C 14 367</td><td>¢ 172710</td><td></td><td>•</td><td>88 650</td></td>	method 778 778 778 778 779 7700 770 770 770	end 773 <td>tes Heat</td> <td>\$ 14.024</td> <td>69</td> <td>•</td> <td>\$ 13 996</td> <td>\$ 14.016</td> <td>14 011</td> <td></td> <td>`</td> <td>14 224</td> <td>14 537</td> <td>4 15 150</td> <td>C 14 367</td> <td>¢ 172710</td> <td></td> <td>•</td> <td>88 650</td>	tes Heat	\$ 14.024	69	•	\$ 13 996	\$ 14.016	14 011		`	14 224	14 537	4 15 150	C 14 367	¢ 172710		•	88 650	
Annual-low Whete 5	Anomethom 5	Annual-tow Witer 5.971 5.900	tes General	5 784		• •	282 282	282	282			705	780	5 10, 100	100't-1 \$	C 0610		9 0	100,00	
Ammaktign Winter 3 (33) <	Ammal-High Writer 3 333 5 3325 5 3326 5 3331 5 3331 5 3335 5 3331 5 3336 5 4,47 5 4,373 5 3095 5 4,477 5 4,373 5 3095 5 4,407 5 2,573 5 3036 5 3,537 5 3,337 5 3,331 5 3,331 5 3,336 5 3,331 5	Annual-High Writer 3.933 3.933 5.933 <td>350 Low Annual-Low Winter</td> <td>\$ 5.912</td> <td>5 5 909</td> <td>. 64</td> <td>2000</td> <td>1 2 2 0 0 2 2</td> <td>5 006</td> <td></td> <td></td> <td>5 005</td> <td>5 E 503</td> <td>6 300</td> <td>5 100F</td> <td>23 197</td> <td></td> <td>, 4</td> <td>37 7 AB</td>	350 Low Annual-Low Winter	\$ 5.912	5 5 909	. 64	2000	1 2 2 0 0 2 2	5 006			5 005	5 E 503	6 300	5 100F	23 197		, 4	37 7 AB	
Ammakter writer Totom	Ammaktion Writer 10	Ammaktew Writer 10,103 6,143 5,114 5,113 5,126 5,266 5,266 5,266 5,266 5,266 5,266 5,106 7,1756 4,136 1,175 6,130 6,210 6,210 6,210 6,210 6,210 6,117 6,106	340 Low Annual-High Winter	\$ 3.933		- 64	3 926	3 131 5	3 020			1 080	1034	A 253	20010 W	AB 401		→ •	10110	
Annual-High Writer 5 (14) 5 (130) 5 (110)	Annual-High Wine 5 14.0 5 14	Ammarking Nermi 5 (14) <t< td=""><td>251 Mort Annual-1 ow Winter</td><td>\$ 10 103</td><td></td><td>••</td><td>10.083</td><td></td><td></td><td></td><td></td><td>10.74</td><td>44,034</td><td>4,202</td><td>170't 4</td><td>40'40</td><td></td><td>9 6</td><td>24,021</td></t<>	251 Mort Annual-1 ow Winter	\$ 10 103		••	10.083					10.74	44,034	4,202	170't 4	40'40		9 6	24,021	
Annual-townine 5 3331	Annuel-tow Wine 5 3/33 5 3/3	Answitter 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,331 5 3,311 5 3,111 5 1,106 5 1,126 5 1,326 5 4,311 5 1,105 5 1,326 5 3,311 5 3,313 5 3,314 3 3,330 5 3,316 3,333 5 3,317 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 5 1,105 <t< td=""><td>241 Mod Annual High Winter</td><td>5 F 144</td><td></td><td>ə e</td><td></td><td></td><td>100,01</td><td></td><td>-</td><td>0+7'01</td><td></td><td>10,921</td><td>440'01 44</td><td></td><td></td><td>₽€</td><td>04-1-10</td></t<>	241 Mod Annual High Winter	5 F 144		ə e			100,01		-	0+7'01		10,921	440'01 44			₽ €	04-1-10	
Ammethin Numer 7,400 7,000	Annual-High Witter 7,403 7,703 7,703 7,703 7,703 7,703 7,703 7,703 7,703 7,706 7,176 7,176 7,176 7,176 7,126 7,176 <td>Annual-High Writer 7</td> <td>250 Hinh Annual.1 ow Winter</td> <td></td> <td></td> <td>ə v</td> <td>1 3 3 3 5</td> <td></td> <td></td> <td></td> <td>3,705</td> <td></td> <td></td> <td>000'0 #</td> <td>007'0 4</td> <td>4 03,320</td> <td></td> <td>֥</td> <td>32,404</td>	Annual-High Writer 7	250 Hinh Annual.1 ow Winter			ə v	1 3 3 3 5				3,705			000'0 #	007'0 4	4 03,320		֥	32,404	
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$		adiabated Triving 1	42 Hinh Annual-Hinh Winter			• •	2,020		2000		5,103		600'C 4	4 3,002	4 0,4 1Z	a 71,070		÷.	77 257	
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	adiatineed 10 Low Annual-High Winer 5 351 5 551 5 551 5 551 5 551 5 551 5 551 5 551 5 551 5 551 5 551 5 551 5 551	additineed 14(). Winter 5 31 31 5 5 31 31 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 <td>ion-Grandfathered T501 ow Annual-Low Winter</td> <td></td> <td>•</td> <td>• •</td> <td>150</td> <td></td> <td>150 1</td> <td></td> <td>116,1</td> <td></td> <td>670'C 4</td> <td>010°0 #</td> <td>0170</td> <td>4 1,130 4 1,720</td> <td></td> <td>÷.</td> <td>200,12</td>	ion-Grandfathered T501 ow Annual-Low Winter		•	• •	150		150 1		116,1		670'C 4	010°0 #	0170	4 1,130 4 1,720		÷.	200,12	
Indifferend 151 Med Annual-Low Witter51,68151,68151,68151,68151,68151,68151,68151,7105777 <th7< th="">77777<</th7<>	diamend 15 Mid Annual-Low Willer 5 1,681 5 1,681 5 1,681 5 1,681 5 1,681 5 1,681 5 1,681 5 1,681 5 1,681 5 1,681 5 1,681 5 1,681 5 1,681 5 1,681 5 1,710 5 5 1,710 5 1,710 5 5 1,710 5 1,710	diathmed T51 Md Annual-Low Willer 5 1,685 5 1,683 5 1,683 5 1,683 5 1,683 5 1,683 5 1,683 5 1,683 5 1,683 5 1,683 5 1,683 5 1,683 5 1,683 5 1,683 5 1,683 5 1,683 5 1,710 5 2,715 5 2,716 5 2,716 5 2,716 5 2,716 5 2,716 5 1,716 5 2,611 5 5,611 5 5,611	Ion-Grandfathered T40 Low Annual-Hinh Winler			•	351		21-1-C		202		365			2121		÷ 4	220,1	
Image: Animal High Witter 7 7/20 7/100 </td <td>andiminant High Mining 2,000 2,000 2,100 2,100 2,100 2,100 2,100 2,100 2,100 2,101 2,1,105 1,100 1</td> <td>dialmend 141 Med Annual-High Winter 2 0.01 2 0.00 2 0.00 2 0.00 2 0.00 2 0.00 2 0.00 2 0.00 3<!--</td--><td>ion.Grandfathered T51 Med Annial. ou Winter</td><td></td><td>• v</td><td>• v</td><td>1 587</td><td></td><td></td><td></td><td>100</td><td></td><td>4 7E1</td><td>- 200 </td><td>1 7 JE</td><td>10,4</td><td></td><td>9 6</td><td>10 067</td></td>	andiminant High Mining 2,000 2,000 2,100 2,100 2,100 2,100 2,100 2,100 2,100 2,101 2,1,105 1,100 1	dialmend 141 Med Annual-High Winter 2 0.01 2 0.00 2 0.00 2 0.00 2 0.00 2 0.00 2 0.00 2 0.00 3 </td <td>ion.Grandfathered T51 Med Annial. ou Winter</td> <td></td> <td>• v</td> <td>• v</td> <td>1 587</td> <td></td> <td></td> <td></td> <td>100</td> <td></td> <td>4 7E1</td> <td>- 200 </td> <td>1 7 JE</td> <td>10,4</td> <td></td> <td>9 6</td> <td>10 067</td>	ion.Grandfathered T51 Med Annial. ou Winter		• v	• v	1 587				100		4 7E1	- 200 	1 7 JE	10,4		9 6	10 067	
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Intermed 137 High Annual-Low Winter 5 420 5 470 5 56,419 5	adiatine 172 High Annual-Low Willer 5 420 5 471 5 417 5 417 5 417 5 417 5 417 5 417 5 417 5 418 5	In-Grandfathered T41 Med Annial-Hich Winter	5 0.01	ə 64	• •	20071		1,004		1,0,1		2011 4	1,021	121.1 4	5 20,139		₽ ₩	12 220	
Image: Normal strugger in the	andiamered LF CLASSES 5 1,10 5	andialered LF CLASSES 5 3,541 5 5,5419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6419 5 5,6,419 <td< td=""><td>Ion-Grandfathered T52 High AminaLi www.</td><td>305</td><td>420</td><td>• •</td><td></td><td></td><td>21017</td><td>+ +c1'7 4</td><td>4 10'7 A</td><td>5110 E16</td><td>770'7</td><td>007'7 &</td><td>101 '7 4</td><td>4 50'130</td><td></td><td>9 U</td><td></td></td<>	Ion-Grandfathered T52 High AminaLi www.	305	420	• •			21017	+ +c1'7 4	4 10'7 A	5110 E16	770'7	007'7 &	101 '7 4	4 50'130		9 U		
Nill S6,419 S 56,419 S 66,419 S 66,419 S 56,419 S 56,419 S 56,419 S 56,419 S 66,419 S 56,419 S 56,419 S 66,419 S 66	Initial 5 6/419	5 56,419 5 56,419 <td>Ion-Grandfathered T42 High Annual-High Winter</td> <td>5 1 110</td> <td>s 1 100</td> <td>• •</td> <td>1108</td> <td></td> <td></td> <td>1170 4</td> <td>1 210</td> <td>1 1 1 1 1 1 1</td> <td></td> <td></td> <td>1120 4</td> <td></td> <td></td> <td>₽₩</td> <td>C 780</td>	Ion-Grandfathered T42 High Annual-High Winter	5 1 110	s 1 100	• •	1108			1170 4	1 210	1 1 1 1 1 1 1			1120 4			₽ ₩	C 780	
\$ 56,419 \$ 56,419 <th< td=""><td>5 56,419 5 57,023 5 338,516 5 3 HLF CLASES 5 19,309 5 19,300 5 19,303 5 21,5015 5 15,302 5 15,902 5 15,902 5 15,902 5 15,902 5 15,302 5 15,302</td><td>\$ 56,419 \$ 51,210 \$ 51,216 \$ 15,106 \$ 13,220 \$ 23,220 \$ 2,320 \$ 2,300 \$ 2,544 \$ 2,410 \$ 3,3725 \$ 3,540 \$ 3,5,21 \$ 3,5,21 \$ 3,</td><td></td><td>*</td><td>*</td><td>•</td><td>*</td><td></td><td></td><td></td><td>* 6171</td><td>1,120</td><td></td><td>1,200</td><td>¢ 1,130</td><td>442</td><td></td><td>\$</td><td>6010</td></th<>	5 56,419 5 57,023 5 338,516 5 3 HLF CLASES 5 19,309 5 19,300 5 19,303 5 21,5015 5 15,302 5 15,902 5 15,902 5 15,902 5 15,902 5 15,302 5 15,302	\$ 56,419 \$ 51,210 \$ 51,216 \$ 15,106 \$ 13,220 \$ 23,220 \$ 2,320 \$ 2,300 \$ 2,544 \$ 2,410 \$ 3,3725 \$ 3,540 \$ 3,5,21 \$ 3,5,21 \$ 3,		*	*	•	*				* 6171	1,120		1,200	¢ 1,130	442		\$	6010	
\$ 14,008 \$ 14,708 \$ 14,778 \$ 14,000 \$ 14,704 \$ 15,610 \$ 16,015 \$ 15,316 \$ 16,006 \$ 15,160 \$ 182,338 \$ 88,767 \$	\$ 14,808 \$ 14,785 \$ 14,778 \$ 14,800 \$ 14,784 \$ 15,610 \$ 15,316 \$ 15,316 \$ 15,160 \$ 182,338 \$ 88,767 \$ \$ 19,348 \$ 19,339 \$ 19,309 \$ 19,330 \$ 19,330 \$ 20,396 \$ 21,511 \$ 19,296 \$ 239,75 \$ 115,982 \$ 1 \$ 19,348 \$ 19,339 \$ 19,330 \$ 20,396 \$ 21,511 \$ 19,296 \$ 239,75 \$ 115,982 \$ 1 \$ 16,482 \$ 16,474 \$ 16,449 \$ 16,430 \$ 16,430 \$ 16,430 \$ 16,430 \$ 14,349 \$ 12,003 \$ 16,132 \$ 13,127 \$ 19,376 \$ 183,467 \$ 98,800 \$ 1 \$ 16,482 \$ 16,474 \$ 16,449 \$ 16,430 \$ 14,349 \$ 12,003 \$ 16,132 \$ 13,127 \$ 183,467 \$ 98,800 \$ 3,523 \$ 35,43 \$ 13,727 \$ 183,468 \$ 13,722 \$ 13,726 \$ 13,726 \$ 13,722 \$ 13,726 \$ 13,726 \$ 13,722 \$ 13,726 \$ 13,722 \$ 13,722 \$ 13,722 \$ 13,726 \$ 13,722 \$ 13,722 \$ 13,726 \$ 13,722 \$ 13,722 \$ 13,722 \$ 13,732 \$ 13,722 \$ 13,726	\$ 14,808 \$ 14,706 \$ 14,778 \$ 14,800 \$ 14,778 \$ 14,800 \$ 14,778 \$ 14,704 \$ 15,610 \$ 15,015 \$ 15,316 \$ 15,160 \$ 182,338 \$ 88.767 \$ 19,348 \$ 19,339 \$ 19,319 \$ 19,309 \$ 19,330 \$ 20,396 \$ 21,511 \$ 19,206 \$ 15,160 \$ 182,338 \$ 88.767 \$ 19,348 \$ 19,339 \$ 19,330 \$ 19,330 \$ 20,396 \$ 21,511 \$ 19,206 \$ 15,720 \$ 239,275 \$ 115,982 \$ 16,487 \$ 16,457 \$ 16,449 \$ 16,472 \$ 16,436 \$ 14,349 \$ 12,003 \$ 16,132 \$ 13,127 \$ 15,504 \$ 183,457 \$ 98,800 \$ 2,239 \$ 2,230 \$ 2,230 \$ 2,230 \$ 2,230 \$ 2,344 \$ 2,410 \$ 28,408 \$ 13,732 \$ 3,541 \$ 3,537 \$ 3,531 \$ 3,539 \$ 3,533 \$ 3,533 \$ 3,532 \$ 2,320 \$ 2,330 \$ 2,348 \$ 2,344 \$ 13,457 \$ 98,800 \$ 3,542 \$ 3,541 \$ 3,535 \$ 3,539 \$ 3,533 \$ 3,533 \$ 3,532 \$ 2,3408 \$ 13,732 \$ 3,542 \$ 3,541	OTAL	\$ 56,419		69		\$ 56,419 \$	56,419		56,419		\$ 56,419	\$ 56,419	\$ 56,419			\$	338,516	
5 14,801 5 14,704 5 14,704 5 15,610 5 15,160 5 12,160 5 18,767 5 5 19,309 5 19,309 5 19,309 5 19,305 5 19,305 5 19,305 5 19,305 5 19,305 5 19,305 5 19,305 5 19,305 5 19,305 5 19,305 5 19,305 5 19,305 5 19,305 5 19,305 5 19,305 5 15,504 5 15,504 5 15,504 5 15,504 5 15,506 5 15,705 5 15,705 5 15,705 5 15,705 5 15,705 5 15,705 5 15,705 5 15,705 5 15,705 5 15,705 5 15,705 5 15,705 5 15,705 5 15,705 5 15,705 5 13,775 5 13,775 5 13,775 5 13,725 5 13,726 13,770 5	5 14,801 5 14,705 5 15,610 5 15,610 5 15,165 5 16,106 5 18,705 5 18,705 5 18,705 5 18,705 5 18,705 5 18,705 5 18,705 5 18,705 5 18,705 5 18,705 5 18,705 5 18,705 5 18,705 5 18,702 5 239,275 5 15,902 5 15,105 5 18,457 5 98,800 5 14,743 5 18,457 5 98,800 5 14,349 5 12,003 5 16,127 5 183,457 5 98,800 5 14,743 5 18,457 5 98,800 5 12,003 5 13,723 5 183,457 5 98,800 5 2 14,743 5 16,306 5 14,743 5 16,306 5 13,733 5 13,723 5 13,723 5 2,31,700 5 13,720 5 2,12,723 5 2,2,100 5	5 14,000 5 14,704 5 14,704 5 15,610 5 15,316 5 15,316 5 15,316 5 15,160 5 182,338 5 88,767 5 5 19,309 5 19,309 5 19,306 5 21,616 5 15,115 5 19,206 5 21,325 5 31,127 5 19,307 5 115,922 5 5 15,926 5 11,556 5 15,926 5 11,566 5 11,565 5 31,127 5 15,304 5 98,767 5 98,800 5 5 16,132 5 15,126 5 15,913 5 15,926 5 98,800 5 5 16,132 5 15,120 5 13,434 5 14,349 5 2,544 5 16,408 5 13,732 5 13,732 5 3,734 5 3,615 5 3,610 5 13,732 5 13,732 5 13,732 5 3,734 5 3,6																		
> 19,409 > 19,409 > 19,430 > 10,430 > 19,460 > 19,460 > 19,460 > 19,460 > 13,722 > 5,240 > 2,400 > 2,400 > 2,540 > 2,540 > 2,400 > 2,400 > 2,400 > 2,400 > 2,400 > 2,400 > 2,400 > 2,400 > 2,400 > 2,400 > 2,400 > 2,400 > 3,501 > 3,502 > 3,541 > 3,555 > 2,1,705 > 3,733 > 3,502 > 3,527 > 43,555 > 2,1,705 > 5,730 > 3,502 > 3,567 > 3,535 > 2,1,735 > 3,561 > 3,561 > 3,561 > 3,561 > 3,561 > 3,561 > 3,56	b 19,345 5 19,345 5 19,345 5 19,345 5 19,345 5 19,345 5 11,545 5 20,913 5 19,120 5 249,120 5 249,120 5 113,982 5 1 5 5 16,474 5 16,474 5 16,475 5 16,466 5 12,003 5 16,132 5 15,504 5 98,800 5 5 13,720 5 56,408 5 13,720 5 5 98,800 5 13,730 5 5 98,800 5 13,730 5 13,740 5 3,820 5 21,700 5 3,8200 5 21,730 5 13,720 5 13,730 5 3,730 5 2,548 5 21,700 5 21,730 5 13,730 5 13,730 5 13,730 5 13,730 5 13,730 5 13,730 5 13,730 5 13,730 5 13,730 5 13,730 5 13,73	> 19,348 > 19,349 > 19,349 > 19,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,346 > 21,347 > 19,246 > 21,347 > 19,347 > 19,467 > 29,800 > 3,343 > 13,343 > 13,127 > 13,343 > 13,127 > 13,344 > 13,127 > 13,344 > 13,127 > 28,408 > 13,732 \$ \$ 2,2303 \$ 2,518 \$ 2,384 \$ 2,3410 \$ 28,408 > 13,732 \$ \$ 2,263 \$ 3,534 \$ 2,544 \$ 2,3410 \$ 3,732 > 3,734 \$ 3,532 \$ 2,1335 \$ 2,1,332 > 3,732 > 3,536 \$ 21,735 > 3,732 > 3,536 \$ 2,1,332 > 3,561 \$ 3,561 \$ 3,562 \$ 21,735 > 3,732 > 3,536 \$ 2,1,332 > 3,562 \$ 2,1,332 > 3,562 \$ 2,1,332 > 3,532 \$ 2,564 \$ 2,564 \$ 2,540 \$ 13,732 > 3,532 \$ 2,544 \$ 2,410 \$ 2,8408<	Residential	5 14,808	\$ 14,801	67 6	\$ 14.778	\$ 14,800	14,794			15,015	\$ 15,316	\$ 16,006	\$ 15,160	\$ 182,338		₩ (93,571	
b 10,482 b 16,474 b 16,475 b 16,475 b 16,475 b 16,475 b 16,475 c 16,475 c 16,475 c 16,475 c 16,475 c 16,475 c 16,416 c 16,416 c 16,475 c 16,416 c 16,416 c 16,416 c 16,416 c 13,722 c 13,725 c 13,722 c 13,725 c 13,726 c 13,725 c<	b 16,4/4 b 16,4/2 5 16,405 5 17,325 5 5,440 5 2,400 5 16,405 5 13,732 5 5 3,640 5 17,325 5 3,640 5 3,734 5 3,615 5 3,615 5 3,615 5 3,610 5 17,325 5 5 1,3722 5 21,735 5 3,615 5 3,610 5 3,734 5 3,615 5 3,610 5 1,735 5 1,735 5 3,615 5	b 16,424 5 16,424 5 16,424 5 16,424 5 16,424 5 16,424 5 16,424 5 18,457 5 98,800 5 5 2,239 5 2,340 5 16,424 5 18,457 5 98,800 5 5 2,239 5 2,330 5 2,384 5 2,410 5 28,408 5 13,732 5 3,542 5 3,536 5 3,530 5 2,518 5 2,410 5 28,408 5 13,732 5 3,542 5 3,530 5 3,734 5 3,615 5 2,410 5 21,235 2 13,732 5 3,542 5 3,530 5 3,734 5 3,615 5 3,627 5 43,555 5 21,235 5 3,542 5 3,533 5,323 5 3,615 5 3,627 5 43,555 5 21,235 5 3,	BALES HLF CLASSES	\$ 19,348	\$ 19,339	A (\$ 19,309	5 19.337 1	19,330			19,296	\$ 21,456	\$ 20,913	\$ 19,720	\$ 239,275	-	1	123,292	
5 2,249 5 2,249 5 2,341 5 2,348 5 2,270 5 2,290 5 2,330 5 2,344 5 2,489 5 2,544 5 2,410 5 28408 5 13,722 5 5 3,542 5 3,541 5 3,537 5 3,536 5 3,540 5 3,539 5 3,734 5 3,923 5 3,592 5 3,615 5 3,829 5 3,627 5 43,555 5 21,235 5 5	5 \$ 2,289 \$ 2,269 \$ 2,341 \$ 2,572 \$ 2,348 \$ 2,270 \$ 2,290 \$ 2,330 \$ 2,518 \$ 2,384 \$ 2,489 \$ 2,544 \$ 2,410 \$ 28,408 \$ 13,732 \$ 3,54 \$ 3,542 \$ 3,541 \$ 3,537 \$ 3,535 \$ 3,540 \$ 3,539 \$ 3,734 \$ 3,923 \$ 3,592 \$ 3,615 \$ 3,829 \$ 3,627 \$ 43,555 \$ 21,235 \$	> > 2.203 \$ 2.304 \$ 2.304 \$ 2.444 \$ 2.410 \$ 13.732 \$ 3.542 \$ 3.537 \$ 3.540 \$ 2.330 \$ 2.518 \$ 2.489 \$ 2.410 \$ 2.8408 \$ 13.732 \$ 3.542 \$ 3.537 \$ 3.540 \$ 3.734 \$ 3.923 \$ 3.815 \$ 3.817 \$ 43.555 \$ 21.235 \$ 3.542 \$ 3.537 \$ 3.530 \$ 3.923 \$ 3.815 \$ 2.8125 \$ 2.8125 \$ 3.829 \$ 43.555 \$ 2.1235 3.617 \$ 43.555 \$ 2.1235 3.617 \$ 3.829 \$ 3.829 \$ 3.829 \$ 3.821 \$ 3.555 \$ 2.1235 \$ 3.627 \$ 3.627 \$ 3.555 <th< td=""><td>ALES LLF CLASSES</td><td>5 16,482</td><td>\$ 16,474</td><td>19 (</td><td>5 16,449</td><td>5 16,472 1</td><td>16,466</td><td></td><td>-</td><td>16,132</td><td>\$ 13,543</td><td>\$ 13,127</td><td>\$ 15,504</td><td>5 183,457</td><td></td><td>\$</td><td>84,657</td></th<>	ALES LLF CLASSES	5 16,482	\$ 16,474	1 9 (5 16,449	5 16,472 1	16,466		-	16,132	\$ 13,543	\$ 13,127	\$ 15,504	5 183,457		\$	84,657	
\$ 05/12 \$ 0500 \$ 1200 \$ 0200 \$ 0100 \$ 2800 \$ 0280 \$ 0187 \$ 0280 \$ 0280 \$ 0200 \$ 1000 \$ 1000 \$ 1000 \$	\$ GOY'L \$ GOOD \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$	د دود. ای فر دودونه فر ۱۶۵٫۵ فر ۱۶۵٫۵ فر دامان فر ۱۶۹٫۵ فر ۱۶۹٫۵ فر ۱۶۹٫۹ فر ۱۶۵٫۵ فر ۱۶۵٫۵ فر ۱۶۵٫۹ فر ۱۶۵٫۹ ف دور این فر دور و مرابع فر ۱۶۵٫۹ فر ۱۹۵٫۹ فر ۱۹۹٫۹ فر ۱۹۹٫	ton-Grandiatinered HLF_CLASSES	5 2,239	2,203	÷> 6	\$ 2,348	2,270	Z,290			2,384	5 2,489	5 2,544	\$ 2,410	5 28,408		6 9 6	14,675	
			VOI-GRAIMANIERED LEF ULASSES	\$ 3,54Z	40'9'	A	¢ 3,555	\$ 04C'S \$	t 850,5 0			3,592	\$ 3,615	\$ 3,829	\$ 3,627	43,555		æ	22,320	

Page 2 of 4

SMBA-NH_2007_Summer_OffPeak.xls Cost Detail

_	MPSHIRE
7	
. 1:6	4
3/13/2007	Utilities -
	5

Page 3 of 4

Northern Utilities - N AMPSHIRE DIVISION Simplified Market Basv., Alloctor (SMBA) Calculations Cost Summary

Summary of Gas Costs

Control Contro <thcontrol< th=""> <thcontrol< th=""> <thco< th=""><th>Line</th><th>Nov-07</th><th>Dec-07</th><th>Jan-08</th><th>Feb-08</th><th>Mar-08</th><th>Apr-08</th><th>May-07</th><th>/n-unc</th><th>Jul-07</th><th>Aug-07</th><th>in day</th><th>Oct-0/</th><th>TOTAL</th><th>WINTER</th><th>SUN</th><th>SUMMER</th></thco<></thcontrol<></thcontrol<>	Line	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	/n-unc	Jul-07	Aug-07	in day	Oct-0/	TOTAL	WINTER	SUN	SUMMER
mem 3736 6 MJ 7 MJ MJ	1 REMAINING CAPACITY																
Matrix Matrix <thmatrix< th=""> <thmatrix< th=""> <thmatrix< td="" th<=""><td>2 Res Heat</td><td>\$ 379,515</td><td>69</td><td>\$ 1,567,024</td><td>\$ 856,844</td><td>ŝ</td><td>\$ 262,377 \$</td><td>16,791 \$</td><td>9,051 \$</td><td>11,062</td><td>\$ 1,255</td><td></td><td>\$ 157,308</td><td>\$ 4,780,441</td><td>\$ 4,497,536</td><td></td><td>282,905</td></thmatrix<></thmatrix<></thmatrix<>	2 Res Heat	\$ 379,515	69	\$ 1,567,024	\$ 856,844	ŝ	\$ 262,377 \$	16,791 \$	9,051 \$	11,062	\$ 1,255		\$ 157,308	\$ 4,780,441	\$ 4,497,536		282,905
Control Contro Control Control <th< td=""><td></td><td>\$ 2,055</td><td>⇔</td><td>\$ 8,484</td><td>\$ 4,639</td><td></td><td>\$ 1,420 \$</td><td>3 416 \$</td><td>49 \$</td><td>60</td><td>2 \$</td><td></td><td>\$ 852</td><td>\$ 25,881</td><td>\$ 24,349</td><td>÷</td><td>1,532</td></th<>		\$ 2,055	⇔	\$ 8,484	\$ 4,639		\$ 1,420 \$	3 416 \$	49 \$	60	2 \$		\$ 852	\$ 25,881	\$ 24,349	÷	1,532
Image: Normalize State St	-		÷	\$ 27,452	\$ 15,011		\$ 4,597 \$	1,345 \$	159 \$	194	\$ 22		\$ 2,756	\$ 83,747	\$ 78,791		4,956
Mathematication 3 Model Calible Calible Colimation Colimation<			\$	\$ 879,195	\$ 480,741		\$ 147,209 \$	43,084 \$	5,078 \$	6,207	\$ 704		\$ 88,259	\$ 2,682,116	\$ 2,523,389	-	158,727
Mathematication 2001 60011 6001 6001			€	\$	\$ 78,293		\$ 23,974 \$	7,017 \$	827 \$	1,011	\$ 115		\$ 14.374	\$ 436,805	\$ 410,955		25,850
Control Contro Control Control <th< td=""><td></td><td></td><td>\$</td><td>•></td><td>\$ 475,314</td><td></td><td>\$ 145,547 \$</td><td>42,598 \$</td><td>5,021 \$</td><td>6,137</td><td>\$ 696</td><td></td><td>\$ 87,263</td><td>\$ 2,651,840</td><td>\$ 2,494,905</td><td></td><td>156,935</td></th<>			\$	•>	\$ 475,314		\$ 145,547 \$	42,598 \$	5,021 \$	6,137	\$ 696		\$ 87,263	\$ 2,651,840	\$ 2,494,905		156,935
Control 1 1 2 </td <td></td> <td>\$ 22,291</td> <td>÷</td> <td>69</td> <td>\$ 50,328</td> <td></td> <td>\$ 15,411 \$</td> <td>4,510 \$</td> <td>532 \$</td> <td>650</td> <td>\$ 74</td> <td></td> <td>\$ 9,240</td> <td>\$ 280,786</td> <td>\$ 264,169</td> <td></td> <td>16,617</td>		\$ 22,291	÷	69	\$ 50,328		\$ 15,411 \$	4,510 \$	532 \$	650	\$ 74		\$ 9,240	\$ 280,786	\$ 264,169		16,617
Monomentary (is not many second matrix) 1.01 2.016		\$ 69,471	€	\$	\$ 156,848	-	\$ 48,029 \$	14,057 \$	1,657 \$	2,025	\$ 230		\$ 28,796	\$ 875,075	\$ 823,289		51,787
Merodiametric for intervalues Construction for intervalues <t< td=""><td></td><td>\$ 1,027</td><td>÷</td><td>\$</td><td>\$ 2,319</td><td></td><td>5 710 \$</td><td>208 \$</td><td>25 \$</td><td>30</td><td>ۍ ډ</td><td></td><td>\$ 426</td><td>\$ 12,941</td><td>\$ 12,175</td><td>÷</td><td>766</td></t<>		\$ 1,027	÷	\$	\$ 2,319		5 710 \$	208 \$	25 \$	30	ۍ ډ		\$ 426	\$ 12,941	\$ 12,175	÷	766
Continuent of 1 Maximum 5 (5) 1 (3) 5 (1		\$ 5,466	€	\$	\$ 12,341		\$ 3,779 \$	1,106 \$	130 \$	159	5 18		\$ 2,266	\$ 68,854	\$ 64,779	\$	4,075
4 303 5 303 303 30		\$ 6,125	ŝ	ŝ	\$ 13,829		4.235 \$	1.239 \$	146 \$	179	\$ 20		\$ 2.539	\$ 77.155	\$ 72.589	\$	4.566
Monoclammatic (3: M), manutation where (3: M), m		\$ 45,397	\$	\$ 187,444	\$ 102,494		31,385 \$	9,186 \$	1,083 \$	1,323	150		\$ 18,817	\$ 571,827	\$ 537,986	\$	33,841
Monometric for physical state is 10,05 3,030 5,041 5,030 5,040		\$ 582	ŝ	\$ 2,401	\$ 1,313		\$ 402	118 \$	14 \$	17	2	\$ 42	\$ 241	\$ 7,325	\$ 6,891	\$	433
TOTAL \$100400 \$2.737.14 \$4.163.711 \$2.760.3 \$6.1063 \$2.330.4 \$7.200.3 \$4.196.321 \$7.100.023 \$4.196.321 \$7.100.023 \$4.196.321 \$7.100.023 \$4.196.321 \$7.100.023 \$4.196.321 \$7.100.023 \$4.196.321 \$7.100.023 \$4.196.321 \$7.196.013 \$5.0136 \$7.100.023 \$4.000.323 \$4.234.86 \$5.0136 \$4.000.323 \$4.234.86 \$5.0136 \$4.000.323 \$4.234.86 \$5.0136 \$4.000.323 \$4.234.86 \$5.0136 \$4.000.323 \$4.234.86 \$5.0136 \$4.000.323 \$4.234.86 \$5.0136 \$4.0126 \$6.00138 \$5.0136 \$6.0136 \$6.0136 \$6.0136 \$6.0136 \$6.0136 \$6.00136		\$ 11,688	€	\$ 48,262	\$ 26,389	\$ 18,437	\$ 8,081 \$	2,365 \$	279 \$	341	\$ 36	\$ 845	\$ 4,845	\$ 147,229	\$ 138,516	\$	8,713
Retendent 3 3 5		\$ 1,008,403		4,163,711		90,634	697,156	204,040		29,393	\$ 3,335	\$ 72,903	\$ 417,981	\$ 12,702,023	\$11,950,321	\$ 7	751,702
Statistier Statistif Statistif Statistif			•		Cut 100	100 100		. 100 11									207.00
Subscient Round Factor Facto			₽ €		001,403	199'109	•	* 107'11	A, 100	771'11	797'1	99C'17 ¢	158,160	\$ 4,800,323	010'12'1' 4 4	N	54,437
Activativation Stand		\$ 03,618	~ ~	\$ 262,678	\$ 143,632	- 1	5 43,982 \$			1,854	5 210		5 26,369	\$ 801,339	\$ 753,916		41,423
Monoclamateria function $3,3,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,2,1$ $3,2,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,2,1$ $3,2,3,1$ $3,1,3,1$ $2,3,3,1$ $3,1,2,1$ $3,2,3,1$ $3,1,3,1$ $3,3,3,3,2$ $3,2,3,1$ $3,3,3,1$ $3,3,3,3,1$ $3,3,3,1,3,1$ $3,3,3,1$ 3		492,930	- -	\$ 2,035,315		-	5 340,785 \$			14,368	5 1,630		\$ 204,318	\$ 6,209,031	5 5,841,583		57,448
		5 1,734	مر			23	5,347 \$			225	26	5 59	\$ 3.206	5 97,421	\$ 91,655		5,765
$ ITAL CAPACITY \\ Tar interval in the formation of the forence (formation of the formation of the formation of the formation$		\$ 52,55T	Ð			86	5 43'245 \$			1,823	\$ 207	\$ 4,522	\$ 25,927	\$ 787,910	\$ 741,281		46,628
TOTAL CAPACITY TOTAL CAPACITY TOTAL CAPACITY $$33,53$ $$47,15$ $$19,102$ $$91,575$ $$2,233$ $$15,72$ $$4,2596$ $$17,1566$ $$4,953,160$ $$4,961,055$ $$2,904$ $$2,1275$ $$6155$ $$6155$ $$6155$ $$6155$ $$6155$ $$6155$ $$6155$ $$61535$ $$2,2063$ $$2,2041$ $$2,2041$ $$2,2045$ $$2,3043$ $$2,1275$ $$6155$ $$61735$ $$2,7135$ $$616935$ $$2,7132$ $$6169$	02 26																
Res 57.28 5.7.38 5.7.38 5.7.38 5.7.36 5.7.3.37 5.7.3 7.7.3																	
Restormed 2289 5/2/91 9/2/92 5/2/91 9/2/92 5/2/91 9/2/92 5/2/91 9/2/92 5/2/91 9/2/92 5/2/91 9/2/92 5/2/91 9/2/92 5/2/91 9/2/92 5/2/91 9/2/92 5/2/91 7/2/91 9/2/91		103 F07	¥	4 1 581 027	870 BAD	C G17 GFG	. 776 388 C	01 E7E C	24 643 C	75 203	15 707	¢ 47 506	¢ 171666	C 4 053 160	C 4 581 605		71 555
Golo low humultue Wither 7,256 5, 20,50 5, 20,50 5, 11,20 5, 4,73 6, 6,0 5, 6,0 5, 6,0 5, 6,0 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,10 5, 7,27 5, 6,17 5, 6,17 5, 2,55,7,11 5, 11,30 5, 2,25 5, 2,16 5, 2,255,7,11 5, 11,30 5, 2,17 5, 7,17 5, 6,17 5, 2,166 5, 2,13 5, 2,55,7,11 5, 3,65 7,17 5, 7,17 5, 6,17 5, 2,566 7,17 5, 2,13 5, 2,166 5, 2,13 5, 2,166 5, 2,13 5, 2,166 5, 2,13 5, 2,166 5, 2,13 5, 2,166 5, 2,13 5, 2,166 5, 2,13 5, 2,166 5, 2,13 5, 2,166 5, 2,13 5, 2,166 5, 2,13 6, 6,166 5, 2,126<		\$ 2 B3B	5 • •	1 0 7 6 2	5 5.421			+ CVC1	C+0,42	855	787,61	4 2,030	\$ 11,000	\$ 4,933,100 \$ 35,500	200010014		6.453
Col tow human High Where 216 Bit 4 11/37 6 803/13 5 11/30 6 4/730 5 10/30 5 2/30/37 7 2/30 7 2/3 7 2/30 7 2/30/3 2 /1/32 7 2/30		\$ 12.561	6	\$ 33.355	\$ 20.911	16.396	10503 \$	7577	6 731 \$	6 188	6615	\$ 6 871	R 721	\$ 156 934	\$ 114 230		42 704
GSI Med Ammul-low Wine3 47.018 69.26 153.272 8 69.26 153.71 32.06 24.717 32.61 37.722 56.1317 37.712 56.1317 37.712 32.617 37.712 32.617 37.712 32.617 37.712 32.617 37.1672 32.617 37.1672 32.617 37.1672 32.617 37.1672 32.6173 37.712 32.617 32.617 37.1672 32.6173 37.7172 37.6672 32.1697 37.1672 32.667 32.3167 37.31672 36.6187 37.7172 32.6672 32.1697 37.1712 32.6672 32.1697 37.1712 32.6672 32.1697 37.1712 32.6672 32.1697 37.1712 32.6672 37.31672 32.668 37.3722 32.6682 37.3722 32.6682 37.3722 32.6672 37.3722 32.6672 37.3722 32.6672 37.3722 32.6672 37.3722 32.6672 37.3722 32.6672 37.3722 32.6672 37.3722 32.6682 37.3722 37.3722 37.3722 32.6722 37.3722 37.3722 37.3722 32.6722 37.37226 37.37226		\$ 216,864	\$	\$ 883.123	\$ 484.667	\$ 339,804	151,139 \$	47.231 \$	9.451 \$	10,195	4.739	\$ 19.646	\$ 92.286	\$ 2.730.517	\$ 2.546.969		83.548
G21 Med homekhigh winder 215671 $547,306$ 507401 500446 537223 510687 520761 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 5255741 5166 52267 52267 52756 52756 527615 527615 527615 52710 51710 566085 53173 53710 5606 57172 525711 5710 566085 51710 5172 52667 577266 5772665 717266 5772665 5772665 5772665 5772665 5772665 597667 597667 597667 597667 597667 597667 597667 597667 597667 597667 597667 597667 597667 597667 5976675 5967462 <		\$ 44,781	\$	\$ 153,272	\$ 88,376	\$ 64,798	34,068 \$	17,667 \$	12,060 \$	11,256	11,168	\$ 13,428	\$ 24,717	\$ 561,817	\$ 471,521		90,296
G2744 5 5 5 5 5 6 3 80.4 5 3.64.5 5 84.43 5 87.41 5 27.65 5 23.66.5 5 24.147 5 2 25 26 5 3.66.5 5 3.64.53 5 2.475 5 2.56.55 5 3.66.75 5 3.66.75 5 7.310 5 5.66.85 5 7.170 5 6.68.85 7 7.1710 5 5.68.85 7.31.70 5 6.86.85 7 7.31.95 5 7.31.95 7.31.70 5 6.86.85 7.31.70 5 6.86.85 7.31.70 5 6.86.85 7.31.70 5 6.86.85 7.31.70 5 6.86.85 7.31.70 5 6.86.85 7.31.70 5 6.86.85 7.31.70 5 6.86.85 7.31.70 5 6.86.85 7.31.70 5 6.96.85 7.31.70 5 6.96.85 7.31.70 5 6.96.85 7.31.70 5 6.96.85 7.31.70 5 6.96.85 7.45.70 5 7.65		\$ 215,671	\$ 467,306	\$ 874,407	\$ 480,448	.,	150,687 \$	48,021 \$	10,740 \$	10,772	6,576	\$ 20,781	\$ 92,529	\$ 2,715,160	\$ 2,525,741		189,419
C42 High multi-low Winder \$ 7687 \$ 15908 \$ 244242 \$ 16,903 \$ 55426 \$ 18,837 \$ 3,567 \$ 9,533 \$ 3,606 \$ 9,646,813 \$ 8,7130 \$ 866,673 \$ 7 Non-Grandhinhmed T60 Low Amult-Low Winder \$ 1,187 \$ 2,419 \$ 1,700 \$ 66,885 \$ 1,310 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 86,885 \$ 71/10 \$ 82,691 \$ 1,910 \$ 71/10 \$ 82,691 \$ 1,910 \$ 71/10		\$ 25,624	69	\$ 95,369	\$ 53,654	\$ 38,493	5 18,741 \$	8,024 \$	4,237 \$	3,706	\$ 3,883	\$ 5,214	\$ 12,652	\$ 321,862	\$ 284,147		37,715
Non-Grandfaltered T60 Low Annual-Low Winler $1,187$ 3 $2,415$ 3 $4,101$ 5 $2,475$ 5 $5,688$ 5 $1,1310$ 5 $5,616$ 3 $1,3130$ 5 $5,1313$ $2,3413$ $2,3413$ $2,313$ $2,313$ $2,313$ $3,2683$ $3,3264$ $3,3,315$ $3,733$ $5,775$ $5,20246$ $5,97,652$ $5,50,462$ $5,9145$ $5,50,462$ $5,9145$ $5,50,462$ $5,9145$ $5,20946$ $5,97,652$ $5,50,462$ $5,9145$ $5,20,914$ $5,97,652$ $5,50,462$ $5,9165$ $5,20,914$ $5,97,652$ $5,50,462$ $5,9165$ $5,20,946$ $5,97,652$ $5,50,462$ $5,9466$ $5,97,652$ $5,50,462$ $5,9466$ $5,97,652$ $5,50,462$ $5,9466$ $5,97,652$ $5,96,462$ $5,96,662$ $5,166,662$ $5,166,662$ $5,166,662$ $5,166,6$		\$ 76,876	••	\$ 294,242	\$ 164,237	\$ 116,983 \$	55,426 \$	18,837 \$	3,567 \$	9,533	\$ 3,859		\$ 35,006	\$ 946,812	\$ 867,673		79,139
Anon-Grandithmend To Low Annuel-High Winder 5,016 5,12,31 5,12,31 5,12,31 5,21,31 5,21,31 5,21,31 5,21,31 5,21,31 5,21,31 5,21,31 5,21,31 5,21,31 5,21,31 5,21,31 5,21,31 5,21,31 5,21,31 5,21,31 5,11,31 5,521 5,11,31 5,12,31 5,11,31 5,12,31 5,11,31 7,206 5,21,31 5,12,31 5,12,31 5,12,31 5,12,31 5,12,31 5,12,31 5,12,31 5,12,31 5,12,31 5,11,31 5,12,31 5,12,31 5,12,31 5,12,31 5,12,31 5,12,33 5,33,464 5,13,17 5,12,33 5,12,33 5,12,31 5,11,31 5,12,33 5,1497 5,13,33 5,1496 5,13,33 5,1467 5,13,17 5,1496 5,1406 5,141 5,1406 5,141 5,1406 5,141 5,1406 5,141 5,1406 5,141 5,1406 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141 5,141		\$ 1,187	\$	\$ 4,401	\$ 2,479	\$ 1,780 \$	\$ 869 \$	376 \$	202 \$	190	\$ 186		\$ 589	\$ 14,919	\$ 13,130	\$	1,788
Non-Grandlahred TS1 Med Annuel-Low Winder 7,710 5 15,131 5 5,511 5 1,379 5 2,020 5 1,887 5 1,772 5 5,532 5 5,916 5 9567 5 4 5 <		\$ 5,818	÷	\$ 22,921	\$ 12,692		5 4,130 \$	1,476 \$	521 \$	516	\$ 373	\$ 775	\$ 2,625	\$ 73,170	\$ 66,885	÷	6,286
Non-Grandlathered T41 Med Annual+ligh Writer 4 7,478 5 101,738 5 104,571 5 73,688 5 3,337 5 3,434 5 2,472 5 5,532 5 2,034 5 5,532 5 5,034 5 5,532 5 5,034 5 5,532 5 5,034 5 5,533 5 5,561 5 5 5 5,911 5 160,672 5 145,170 5 145,170 5 145,170 5 14,66 5 5,911 5 160,672 5 145,170 5 14 Non-Grandlathered T2 High Annual-High Writer 5 12,798 5 2,7497 5 19,505 5 1,3379,055 5 14,66 5 14,66 5 14		\$ 7,810	÷	\$ 26,974	\$ 15,511	\$ 11,346	5,918 \$	3,016 \$	2,020 \$	1,887	\$ 1,772	\$ 2,264	\$ 4,264	\$ 97,914	\$ 82,691	\$	15,223
Non-Grandfathmed T2 High Annual-Lew Winder 9 704 5 5 5 5 5 5 5 5 7 5 7 2 9 3 5 6 5 5 5 12 9 5 9 6 5 7 12 9 16 5 5 14 6 5 5 14 6 5 5 6 5 5 6 1 5 9 1 5 106 5 14 6 5 14 6 5 5 6 5 5 6 1 2 106 5 14 6 7 10 5 106 5 10 5 10 5 10 5 10<		\$ 47,478	\$	\$ 189,522	\$ 104,571	\$ 73,688	33,464 \$	11,379 \$	3,397 \$	3,434	\$ 2,472	\$ 5,532	\$ 20,948	\$ 597,622	\$ 550,462	\$	47,161
Non-Grandlehred T2 High Annuel-High Minder 1 12,79B 5 66,672 5 14,56 5 97B 5 5,981 5 160,672 5 145,170 5 1 TOTAL 5 1,064,822 5,2,70,133 4,220,131 5,2,333,123 51,647,054 5 753,575 5 26,459 5 86,813 5 129,323 5 4174,400 513,379,055 512,288,837 5 1,06 TOTAL 5 1,064,822 5,2,270,133 5 4,53,575 5 80,469 5 86,813 5 174,400 513,379,055 512,288,837 5 1,06 Residential 5 396,376 5 4,53,575 5 20,469 5 129,323 5 4,610,653 5 37,065 512,288,837 5 1,09 5 51,065 512,288,837 5 1,09 5 5 59,733 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5<	_	\$ 976	\$	\$ 2,881	\$ 1,820	\$ 1,343	849 \$	504 \$	482 \$	533	556	\$ 592	\$ 762	\$ 12,996	\$ 9,567	\$	3,429
TOTAL \$ 1,064,822 \$ 2,270,133 \$ 4,220,131 \$ 2,333,123 \$ 1,647,054 \$ 753,575 \$ 260,459 \$ 80,469 \$ 86,813 \$ 59,755 \$ 129,323 \$ 474,400 \$ 13,379,055 \$ 12,288,837 \$ 1,05 Residential \$ 396,376 \$ 852,449 \$ 1,590,294 \$ 876,261 \$ 616,660 \$ 278,591 \$ 92,817 \$ 25,553 \$ 26,513 \$ 4,000,613 \$ 4,610,653 \$ 37 Residential \$ 396,376 \$ 1590,294 \$ 876,261 \$ 616,660 \$ 278,591 \$ 22,312 \$ 26,137 \$ 16,578 \$ 43,592 \$ 173,320 \$ 4,610,613 \$ 869,898 13% \$ 17 SALES HLF CLASSES \$ 82,966 \$ 156,997 \$ 281,997 \$ 162,941 \$ 119,686 \$ 63,312 \$ 33,268 \$ 21,150 \$ 21,173 \$ 4,600,613 \$ 869,898 13% \$ 17 SALES HLF CLASSES \$ 5,901 \$ 312,686 \$ 63,312 \$ 31,408 \$ 23,752 \$ 14,408 \$ 2,3753 \$ 4,6176 \$ 215,612 \$ 129,322 \$ 6,90,989 31% \$ 45 \$ 45,783 \$ 10,40,613 \$ 809,398 37% \$ 12 3103 \$ 15,613		\$ 12,798	\$	\$ 49,370	\$ 27,497	\$ 19,546	9,190 \$	3,535 \$	1,498 \$	1,466	\$ 978	\$ 2,045	\$ 5,981	\$ 160,672	\$ 145,170	\$	15,502
TOTAL \$ 1,064,822 \$ 2,270,133 \$ 4,220,131 \$ 2,333,123 \$ 1,647,054 \$ 753,575 \$ 723,575 \$ 1,064 \$ 763,575 \$ 1,064 \$ 763,575 \$ 1,055 \$ 1,023 \$ 474,400 \$ 13,379,055 \$ 1,025 \$ 1,025 \$ 1,026 \$ 1,046,653 \$ 2,017 \$ 25,555 \$ 26,137 \$ 16,576 \$ 43,592 \$ 173,320 \$ 4,908,660 \$ 4,610,653 \$ 3,375 \$ 1,040,613 \$ 869,998 13% \$ 1,159 \$ 23,028 \$ 21,150 \$ 2,1667 \$ 25,513 \$ 4,600 \$ 1,040,613 \$ 869,998 13% \$ 1,155 \$ 23,028 \$ 21,150 \$ 21,1																	
Residential \$ 396,378 \$ 852,449 \$ 1,590,294 \$ 876,261 \$ 616,660 \$ 278,561 \$ 92,817 \$ 25,563 \$ 26,137 \$ 16,578 \$ 43,592 \$ 173,320 \$ 4,610,653 \$ 37 SALES HF CLASSES \$ 82,966 \$ 156,997 \$ 16,5041 \$ 119,866 \$ 63,312 \$ 33,268 \$ 23,028 \$ 21,160 \$ 21,667 \$ 25,513 \$ 46,098 \$ 1,40,613 \$ 889,898 13% \$ 17 SALES HF CLASSES \$ 80,941 \$ 10,908,587 \$ 20,101 \$ 33,2268 \$ 23,020 \$ 15,173 \$ 4,610,613 \$ 869,898 13% \$ 17 SALES LF CLASSES \$ 50,901 \$ 31,252 \$ 114,088 \$ 23,729 \$ 21,617 \$ 1,23,233 \$ 10,301 \$ 33,268 \$ 23,735 \$ 45,773 \$ 46,784 \$ 15,773 \$ 46,784 \$ 15,317 \$ 14,469 \$ 7,637 \$ 3,825 \$ 8,351 \$ 25,615 \$ 125,828 \$ 105,308 \$ 105,308 \$ 2,561 \$ 125,828 \$ 105,308 \$ 2,503 \$ 2,610 \$ 2,514 \$ 3,103 \$ 5,615 \$ 105,308 \$ 20,565 \$ 10,801 \$ 3,630 \$ 2,415 \$ 5,415 \$ 3,822 \$ 8,31,465		\$ 1,064,822				1,647,054			80,469	85,813		\$ 129,323		\$ 13,379,055	\$ 12,288,837	-	,090,218
SALES HLF CLASSES \$ 82,966 \$ 158,997 \$ 162,941 \$ 119,686 \$ 63,312 \$ 33,268 \$ 23,028 \$ 21,150 \$ 21,667 \$ 25,513 \$ 46,089 \$ 1,040,613 \$ 869,998 13% \$ 17 SALES HLF CLASSES \$ 599,411 \$ 1099,597 \$ 162,941 \$ 1199,352 \$ 794010 \$ 357,252 \$ 114,088 \$ 23,759 \$ 30,500 \$ 15,173 \$ 46,089 \$ 1,040,613 \$ 869,998 13% \$ 45 SALES HLF CLASSES \$ 599,411 \$ 1099,597 \$ 1,199,352 \$ 794010 \$ 357,252 \$ 114,088 \$ 23,759 \$ 30,500 \$ 15,173 \$ 46,089 \$ 1,040,613 \$ 869,998 13% \$ 45 SALES HLF CLASSES \$ 9,974 \$ 19,242 \$ 34,256 \$ 19,810 \$ 14,469 \$ 7,637 \$ 3,895 \$ 2,703 \$ 2,610 \$ 2,514 \$ 3,103 \$ 5,615 \$ 125,828 \$ 105,388 \$ 7,653 \$ 26,094 \$ 140,858 \$ 261,813 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 705,516 \$ 5 Non-Grandfathered LLF CLASSES \$ 66,094 \$ 140,858 \$ 261,813 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 725,518 \$ 105,516 \$ 5 Non-Grandfathered LLF CLASSES \$ 66,094 \$ 140,858 \$ 214,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 725,516 \$ 5 Non-Grandfathered LLF CLASSES \$ 66,094 \$ 140,858 \$ 261,813 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 725,516 \$ 5 Non-Grandfathered LLF CLASSES \$ 66,094 \$ 140,858 \$ 214,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 725,516 \$ 5 Non-Grandfathered LLF CLASSES \$ 66,094 \$ 140,858 \$ 214,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 76,5516 \$ 5 Non-Grandfathered LF CLASSES \$ 66,094 \$ 140,868 \$ 216,784 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 20,554 \$ 831,465 \$ 72,5516 \$ 5 Non-Grandfathered LF CLASSES \$ 10,000,000 \$ 100,000		\$ 396.378	69		876.261		278.591 \$	92.817 \$	25.563 \$	26.137	\$ 16.578		\$ 173.320	\$ 4.988.660		e S	378.008
SALES LLF CLASSES \$ 509,411 \$1,098,587 \$ 2,051,771 \$1,729,352 \$ 794,010 \$ 357,252 \$ 114,088 \$ 23,759 \$ 30,500 \$ 15,173 \$ 48,764 \$ 219,822 \$ 6,392,489 \$ 5,940,383 87% \$ 45 Non-Grandfathered HLF CLASSES \$ 9,974 \$ 19,242 \$ 34,256 \$ 19,810 \$ 14,760 \$ 7,637 \$ 3,895 \$ 2,703 \$ 2,610 \$ 2,514 \$ 3,103 \$ 5,615 \$ 125,828 \$ 105,388 \$ 2 Non-Grandfathered HLF CLASSES \$ 0,974 \$ 19,242 \$ 261,813 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 6 0 Non-Grandfathered LLF CLASSES \$ 66,094 \$ 140,858 \$ 261,813 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 6 0 Non-Grandfathered LLF CLASSES \$ 66,094 \$ 140,858 \$ 261,813 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 0 Non-Grandfathered LLF CLASSES \$ 13,085 \$ 2,617 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 0 Non-Grandfathered LLF CLASSES \$ 14,0858 \$ 261,913 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 0 Non-Grandfathered LLF CLASSES \$ 140,858 \$ 2,617 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 0 Non-Grandfathered LLF CLASSES \$ 140,858 \$ 2,147,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 0 Non-Grandfathered LLF CLASSES \$ 140,858 \$ 2,617 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 0 Non-Grandfathered LLF CLASSES \$ 14,070 \$ 146,770 \$ 102,208 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 762 \$ 16,780 \$ 100,790 \$ 100,		\$ 82,966	\$		162,941	-	63,312 \$	33,268 \$	23,028 \$	21,150	21,667		\$ 46,089	\$ 1,040,613	869,898	\$	170,715
Non-Grandfathered HLF CLASSES \$ 9.974 \$ 19.242 \$ 34.256 \$ 19,810 \$ 14,469 \$ 7,637 \$ 3.895 \$ 2,703 \$ 2,610 \$ 2,514 \$ 3,103 \$ 5,615 \$ 125,828 \$ 105,388 \$ 2 Non-Grandfathered LLF CLASSES \$ 140,858 \$ 261,813 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 6 0 0 4 \$ 140,858 \$ 261,913 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 6 0 0 4 \$ 140,858 \$ 261,913 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 6 0 0 4 \$ 140,858 \$ 261,913 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 0 0 4 \$ 140,858 \$ 20,94 \$ 140,858 \$ 261,913 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 0 0 4 \$ 140,858 \$ 20,94 \$ 140,858 \$ 261,913 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 0 0 4 \$ 140,858 \$ 2,016,100 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 0 0 4 \$ 140,858 \$ 2,016 \$ 140,100 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 \$ 762,516 \$ 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		\$ 509,411	\$ 1,0	\$ 2,051,771	\$ 1,129,352	\$ 794,010	357,252 \$	114,088 \$	23,759 \$	30,500	\$ 15,173		\$ 219,822	\$ 6,392,489		€	452,106
Non-Grandfathered LLF CLASSES \$ 66,094 \$ 140,858 \$ 261,813 \$ 144,760 \$ 102,208 \$ 46,784 \$ 16,391 \$ 5,415 \$ 5,415 \$ 3,822 \$ 8,351 \$ 29,554 \$ 831,465 <u>\$ 762,516 \$ 6</u>		\$ 9,974	⇔	\$ 34,256			\$ 7,637 \$			2,610	\$ 2,514	\$ 3,103	\$ 5,615	\$ 125,828	\$ 105,388		20,441
		\$ 66,094	⇔	\$ 261,813		-	\$ 46,784 \$			5,415	\$ 3,822	\$ 8,351	\$ 29,554	\$ 831,465	\$ 762,516		68,949
														_	91.62%		8.38%

1	MPSHIRE D
3/13/2007 9.1	thern Utilities - h

Northern Utilities - P AMPSHIRE DIVISION Simplified Market Bascu Alloctor (SMBA) Calculations <u>Cost Summary</u>

Summary of Gas Costs

Line	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	WINTER	SUMMER
1 TOTAL COMMODITY AND CAPACITY															
2 Res Heat	\$ 1,663,721	\$ 2,794,418	\$ 3,871,108	\$ 2,820,283	\$ 2,251,067	\$ 1,463,486	\$ 652,998	\$ 328,671	322,320	\$ 271,048	\$ 436,650	\$ 1,040,189	\$17,915,958	\$ 14,864,082	\$ 3,051,876
3 Res General	\$ 27,171	\$ 35,413	\$ 42,299	\$ 35,816	\$ 32,132	\$ 25,805	\$ 18,348	\$ 16,142	17,994	\$ 14,575	\$ 17,556	\$ 21,820	\$ 305,072	\$ 198,637	\$ 106,435
4 G50 Low Annual-Low Winter	\$ 163,755	\$ 193,229	\$ 216,588	\$ 195,837	\$ 184,722	\$ 159,788	\$ 123,524	\$ 121,190	\$ 123,699	\$ 121,005	\$ 128,742	\$ 129,764	\$ 1,861,843	\$ 1,113,919	\$ 747,924
5 G40 Low Annual-High Winter	\$ 841,018	\$ 1,467,828	\$ 2,068,166	\$ 1,480,856	\$ 1,162,822	\$ 730,243	\$ 287,458	\$ 107,369	94,215	\$ 75,708	\$ 163,470	\$ 498,266	\$ 8,977,419	\$ 7,750,933	\$ 1,226,486
6 G51 Med Annual-Low Winter	\$ 351,733	\$ 461,568	\$ 563,077	\$ 467,320	\$ 417,115	\$ 332,825	\$ 236,871	\$ 209,642	\$ 215,638	\$ 203,529	\$ 227,416	\$ 275,533	\$ 3,962,268	\$ 2,593,639	\$ 1,368,630
7 G41 Med Annual-High Winter	\$ 873,453	\$ 1,503,417	\$ 2,102,148	\$ 1,516,730	\$ 1,198,171	\$ 762,690	\$ 313,550	\$ 132,198	\$ 110,373	\$ 109,957	\$ 189,870	\$ 527,249	\$ 9,339,806	\$ 7,956,610	\$ 1,383,196
8 G52 High Annual-Low Winter	\$ 276,399	\$ 428,021	\$ 534,392	\$ 430,097	\$ 357,917	\$ 254,410	\$ 126,223	\$ 75,635	68,260	\$ 70,698	\$ 93,734	\$ 187,829	\$ 2,903,616	\$ 2,281,236	\$ 622,380
9 G42 High Annual-High Winter	\$ 276,402	\$ 448,152	\$ 626,760	\$ 454,805	\$ 371,323	\$ 227,179	\$ 106,778	\$ 35,420	\$ 233,287	\$ 79,645	\$ 68,476	\$ 161,034	\$ 3,089,259	\$ 2,404,620	\$ 684,639
10 Non-Grandfathered T50 Low Annual-Lnw Winter	\$ 13,575	\$ 21,052	\$ 26,207	\$ 21,151	\$ 17,600	\$ 12,510	\$ 6,148	\$ 3,629	3,284	\$ 3,341	\$ 4,532	\$ 9,210	\$ 142,238	\$ 112,095	\$ 30,143
11 Non-Grendfathered T40 Low Annual-High Winter	\$ 44,505	\$ 72,614	\$ 94,103	\$ 72,984	\$ 59,300	\$ 40,215	\$ 17,700	\$ 8,553	8,114	\$ 6,627	\$ 11,579	\$ 28,529	\$ 464,824	\$ 383,722	\$ 81,102
12 Non-Grandfathered T51 Med Annual-Low Winter	\$ 57,908	\$ 75,901	\$ 93,123	\$ 76,889	\$ 68,623	\$ 54,732	\$ 39,214	\$ 34,899	37,494	\$ 32,518	\$ 37,798	\$ 42,819	\$ 651,916	\$ 427,175	\$ 224,742
13 Non-Grandfalhered T41 Med Annual-High Winter	\$ 231,190	\$ 382,067	\$ 518,778	\$ 385,251	\$ 310,011	\$ 205,496	\$ 93,517	\$ 49,111	\$ 44,791	\$ 42,751	\$ 64,062	\$ 146,796	\$ 2,473,820	\$ 2,032,794	\$ 441,026
14 Non-Grandfathered T52 High Annual-Low Winter	\$ 9,730	\$ 11,930	\$ 14,987	\$ 13,806	\$ 11,808	\$ 10,625	\$ 7,606	\$ 8,278	10,871	\$ 10,213	\$ 10,980	\$ 11,651	\$ 132,485	\$ 72,886	\$ 59,599
15 Non-Grandfathered T42 High Annual-High Winter	\$ 97,358	\$ 155,666	\$ 200,690	\$ 156,606	\$ 128,446	\$ 87,777	\$ 40,875	\$ 21,819	28,471	\$ 18,096	\$ 28,556	\$ 63,300	\$ 1,027,661	\$ 826,543	\$ 201,118
16															
17 TOTAL	\$ 4,927,917	\$ 8,051,275	\$4,927,917 \$8,051,275 \$10,972,425 \$8,128,433	\$ 8,128,433	\$ 6,571,058	\$ 4,367,781	\$ 2,070,809	\$ 1,152,555	\$ 1,318,810	\$ 1,059,713	\$ 1,483,421	\$ 3,143,990	\$53,248,188	\$43,018,890	\$ 10,229,298
10 Residential	\$ 1 690 892	\$ 2 829 831	\$ 3913406	\$ 2 856 099	\$ 2 283 200	\$ 1 489 291	\$ 671.346	\$ 344,813	340.314	\$ 285.623	\$ 454.206	\$ 1.062.009	\$18,221,030	\$15.062.719	\$ 3,158,311
	\$ 791,887	\$ 1.082,818	\$ 1.314.057	\$ 1,093,255	\$ 959,755	\$ 747.023	\$ 486,618	\$ 406,467	407,598	\$ 395,233	\$ 449,893	\$ 593,126	\$ 8,727,728	\$ 5,988,794	\$ 2,738,934
21 SALES LLF CLASSES	\$ 1,990,872	\$ 3,419,397		\$ 3,452,391	\$ 2,732,317	\$ 1,720,111	\$ 707,786	\$ 274,986	3 437,875	\$ 265,310	\$ 421,816	\$ 1,186,549	\$21,406,484	\$ 18,112,162	\$ 3,294,322
22 Non-Grandfathered HLF CLASSES	\$ 81,213	\$ 108,883	\$ 134,316	\$ 111,847	÷	\$ 77,867	\$ 52,968	\$ 46,806	51,648	\$ 46,072	\$ 53,310	\$ 63,680	\$ 926,640	\$ 612,156	\$ 314,484
23 Non-Grandfathered LLF CLASSES	\$ 373,053	\$ 610,347		\$ 614,842	⇔	\$ 333,489	\$ 152,091	\$ 79,483	81,376	\$ 67,474	\$ 104,197	\$ 238,626	\$ 3,966,305	\$ 3,243,058	\$ 723,247

Northern Utilities - NEW HAMPSHIRE DIVISION Forecasted Sales and Transportation (Volumes in DTH) Winter 2007 - 2008 Period Effective May 2007

....

32,462 48,737 103,046 1,627,642 1 13,974 14,552 14,113 191,200 8,550 17,000 47,016 782,615	23,427 25,535 29,205 388,914 233,059 13,848 20,016 50,364 825,341 682,193 8,846 10,515 20,321 315,433 244,896 7,691 7,189 14,695 241,909 169,139		508 1,000 15,584 12,160 1,280 3,002 48,576 39,589 4,240 4,492 63,189 37,647 6,946 14,593 230,880 183,398 1,240 1,269 13,193 6,344	ñ	103.046 1,627,642 1,292,655 63,639 895,547 582,970 63,639 895,547 582,970 112,075 1,849,865 1,509,144 6,761 91,966 56,151 24,244 385,540 306,678 309,765 4,850,560 3,747,598
32,462 48,737 103,046 1 13,974 14,552 14,113 8,550 17,000 47,016	25,535 29,205 20,016 50,364 10,515 20,321 7,189 14,695	94,807 175,714 143,544 278,760	1,000 3,002 4,492 14,593 1,269	6,649 31,005 309,765	4
32,462 48,737 13,974 14,552 8,550 17,000	25,535 20,016 10,515 7,189	94,807 143,544			103,046 63,639 112,075 6,761 24,244 309,765
32,462 13,974 8,550			508 240 246 240	0 0 0	
	23,427 13,848 8,846 7,691		- 4 0 -	3,155 17,369 160,913	48,737 50,602 44,205 5,988 11,381
39,282 14,668 10,507		76,336 108,798	391 751 3,712 4,921 1,176	12,941 12,941 121,739	32,462 46,247 30,089 5,279 7,662
1	25,523 11,074 7,301 28,181	97,254 136,536	382 951 4,451 5,162 1,291	3,388 15,625 152,161	39,282 47,492 49,762 6,124 9,501
39,647 39,647 14,397 11,976	24,822 14,936 8,873 4,029	79,033 118,680	426 991 4,131 5,665 986	2,571 14,770 133,450	39,647 48,092 30,941 5,543 9,227
71,813 14,481 29,754	27,343 32,910 14,681 10.985	130,154 201,967	717 2,012 4,516 10,195 887	4,640 22,967 224,934	71,813 56,505 73,649 6,120 16,847
134,159 16,122 64,495	32,442 68,058 26,068 18,487	225,672 359,831	1,288 4,008 5,297 19,066 1,051	8,694 39,404 399,235	134,159 74,632 151,040 7,636 31,768 399,235
1 1		0	1,991 6,473 6,227 30,010 1,032	13,694 59,427 613,680	211,509 96,083 246,661 9,250 50,177 613,680
247,262 247,262 18,061 127,306	41,349 131,566 46,589 31,988	396,859 644,121	2,316 7,612 6,657 35,068 1,153	16,005 68,811 712,932	247,262 105,999 290,860 10,126 58,685 58,685
287,223 287,223 18,746 149,498	44,496 154,004 53,840 36,759	457,343 744,566	2,679 8,886 7,138 40,722 1,164	18,590 79,179 823,745	287,223 117,082 340,261 10,981 68,198 823 745
247,964 18,073 127,696	41,405 131,959 46,717 32,072	397,922 645,886	2,322 7,634 6,666 35,168 1,018	16,051 68,859 714,745	247,964 106,195 291,727 10,006 58,853 714,745
164,538 16,565 81,366	34,834 85,116 31,580 22,113	271,574 436,112	1.564 4 ,976 5,662 23,364 926	10,657 47,149 483,261	164,538 82,979 188,595 8,152 38,997 483,261
Total Residential G50 Low Annual-Low Winter G40 Low Annual-High Winter		0 Total Comm 1 Total Sales	 Non-Grandiathered T50 Low Annual-Low Winter Non-Grandiathered T40 Low Annual-High Winter Non-Grandiathered T51 Med Annual-Low Winter Non-Grandiathered T41 Med Annual-Low Winter Non-Grandiathered T52 High Annual-Low Winter 		 Residential Heat & Non Heat SALES HLF CLASSES SALES LLF CLASSES Non-Grandfathered HLF CLASSES Non-Grandfathered LLF CLASSES Non-Grandfathered LLF CLASSES
lential 164.253 24.054 20.25 247.262 241.509 134.159 71.813	G50 Low Annual-Low Winter 640 Low Annual-High Winter 81,366 127,696 149,498 127,306 107,451 64,495 29,754 11,976	G50 Low Annual-Low Winter 16,565 18,073 18,746 18,061 17,448 16,122 14,481 14,397 G40 Low Annual-High Winter 81,366 127,696 149,498 127,306 107,451 64,495 29,754 11,976 G51 Med Annual-High Winter 81,366 127,695 149,498 127,306 107,451 64,495 29,754 11,976 G51 Med Annual-Low Winter 34,834 41,405 44,96 41,346 38,533 32,442 27,343 24,822 G41 Med Annual-High Winter 35,116 131,959 154,004 131,569 40,102 26,068 32,910 14,936 G52 High Annual-Low Winter 31,580 46,717 53,840 46,569 40,102 26,068 14,681 8,873 G42 High Annual-Low Winter 22,113 32,072 36,759 31,988 27,720 18,487 10,985 4,029 G42 High Annual-High Winter 22,113 32,072 36,759 31,988 27,720 18,487 10,29	16,565 18,073 18,746 18,061 17,448 16,122 14,481 14,397 81,366 127,696 149,498 127,306 107,451 64,495 29,754 11,976 34,834 41,405 44,496 41,349 38,533 32,442 27,343 24,822 85,116 131,959 154,004 131,566 111,490 68,058 32,910 14,936 31,580 46,717 53,840 45,589 40,102 26,068 14,681 8,833 22,113 32,072 36,759 31,988 27,720 18,487 10,985 4,029 22,113 32,072 36,753 31,988 27,720 18,487 10,985 4,029 211,574 397,922 457,343 396,859 342,744 225,672 130,154 79,033 436,112 644,121 554,253 359,831 201,967 118,680	G50 Low Annual-Low Winter16,56518,07318,74618,06117,44816,12214,48114,397G40 Low Annual-High Winter64,01024,495107,45164,49529,75411,976G51 Med Annual-Low Winter81,366127,696149,498127,306107,45164,49529,75411,976G51 Med Annual-Low Winter81,366121,956149,498127,306107,45164,49529,76411,976G52 High Annual-Low Winter34,83441,40544,40641,34968,05832,91014,936G52 High Annual-Low Winter31,58046,71753,84046,58940,10226,06814,6818,873G42 High Annual-Ligh Winter22,11332,07236,75931,98827,72018,4818,87324,822O42 High Annual-High Winter22,11332,07236,75931,98827,72018,48114,936O42 High Annual-High Winter1,5642,3222,573359,85332,744226,672130,15479,033Iotal Sales27,156744,566644,121554,253359,831201,967118,680Non-Grandfathered T50 Low Annual-Low Winter5,6626,6667,1387,174,26Non-Grandfathered T51 Med Annual-Low Winter5,6626,6667,1387,174,5164,131Non-Grandfathered T51 Med Annual-Low Winter23,36435,1687,1734,06610,1955,665Non-Grandfathered T51 Med Annual-Low Winter </td <td>G50 Low Annual-Low Winter16,56518,07318,74618,06117,44816,12214,48114,397G50 Low Annual-Low Winter65,050127,59613,95913,95913,19523,7306107,45164,49529,75411,976G51 Med Annual-Low Winter81,366127,59641,40541,40541,34227,30527,34224,822G51 Med Annual-Low Winter81,35954,004131,55611,40068,05832,91014,395G52 High Annual-Low Winter31,58040,12153,85940,10256,0684,023G24 High Annual-High Winter22,11332,07236,75931,98827,72018,48710,9854,023Total Comm271,574397,922457,343396,856342,744225,672130,1547903Total Comm7016 Comm271,574397,922457,343359,851201,967118,680Non-Grandfathered T50 Low Annual-High Winter1,5642,3222,5792,3161,1911,288717426Non-Grandfathered T61 Med Annual-High Winter5,6626,6667,1386,5275,2974,5164,131Non-Grandfathered T51 Med Annual-Low Winter5,6626,6667,1386,6275,2974,5164,131Non-Grandfathered T42 High Minter23,6435,1681,1631,1631,02610,1955,665Non-Grandfathered T42 High Minter23,6435,1681,1531,1236,2275,917<t< td=""></t<></td>	G50 Low Annual-Low Winter16,56518,07318,74618,06117,44816,12214,48114,397G50 Low Annual-Low Winter65,050127,59613,95913,95913,19523,7306107,45164,49529,75411,976G51 Med Annual-Low Winter81,366127,59641,40541,40541,34227,30527,34224,822G51 Med Annual-Low Winter81,35954,004131,55611,40068,05832,91014,395G52 High Annual-Low Winter31,58040,12153,85940,10256,0684,023G24 High Annual-High Winter22,11332,07236,75931,98827,72018,48710,9854,023Total Comm271,574397,922457,343396,856342,744225,672130,1547903Total Comm7016 Comm271,574397,922457,343359,851201,967118,680Non-Grandfathered T50 Low Annual-High Winter1,5642,3222,5792,3161,1911,288717426Non-Grandfathered T61 Med Annual-High Winter5,6626,6667,1386,5275,2974,5164,131Non-Grandfathered T51 Med Annual-Low Winter5,6626,6667,1386,6275,2974,5164,131Non-Grandfathered T42 High Minter23,6435,1681,1631,1631,02610,1955,665Non-Grandfathered T42 High Minter23,6435,1681,1531,1236,2275,917 <t< td=""></t<>

NORTHERN UTILITIES - NEW IIAMPSHIRE DIVISION Summer '07 Period Forecasted Sales Volumes

TOTAL	988,285 976,976	11,309
Oct	278,760 275,652	3,108
Sept (143,544 141,902	1,642
August	108,798	1,288
July	136,536 134,909	1,627
June	118,680	1,364
May	201,967 199,687	2,280
6	Fcst Calendar Summer '07 Normalized Calendar Summer '0_	Difference

TOTAL VARIANCE

11,309

,

47,232 (35,923)

SALES

SALES				NORTHERN	UTILITIES, NEW I Summer '06 Period Forecast	NORTHERN UTILITIES, NEW HAMPSHIRE DIVISION Summer '06 Period Forecast	E DIVISION							
		NORMAL MMBtu	1MBtu		METERS		2	IORMAL /	NORMAL AVERAGE USE					
	2007 Forecast	2006 Actual	Difference	2007 Forecast	2006 Actual	Difference	2007 2006 Forecast Actual Difference	2006 Actual D	Difference	Change Cl Meter Count	Change in Sales Due to Change In: Meter Count Load Pattern	Total Chg MMBtu	% difference	
Res Heat	322,817			115,772	114,229		2.79	2.81	-0.02	4,302	(2,641)	1,661	0.52%	
Res General	12,170			11,046		147	1.10	1.11	-0.01	162		63	0.52%	
Total Res	334,987	333,263	1,724	126,818	-	1,690	3.89	3.92	-0.03	4,464	(2,740)	1,724	0.52%	
C & I	653,298	643,713	9,585	36,570	34,176	2,394	17.86	18.84	-0.97	42,767	(33,182)	9,585	1.49%	
Total Comm	653,298	643,713	9,585	36,570	34,176	2,394	17.86	18.84	-0.97	42.767	(33,182)	9,585	1.49%	
Total Company	988,285	976,976	11,309	163,388	159,304	4,084	6.05	6.13	-0.08	47,232	(35,923)	11,309	1.16%	

83

Σ
<
4
Ì
•
5
9
0
2
5
5

Northern Utilities Simplified Market Based Alloctor (MBA) Calculations COMMODITY COSTS

	I	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Anr-08	Mav-07	-10-01	10-Jul.	Aug-07	Sen-07	Oct-07	TOTAL	WINTER	SUMMER
-	- Supply Volumes - Therms							in fran			6	-				
2	i															
≓ I €	Total Pipeline	362,745	449,756	458,887	417,583	359,137	607,524	401,615	236,158	240,442	210,893	285,254	547,991	4,577,985	2,655.632	1,922,353
4	Total Storage	558,863	795,198	938,445	820,591	685,092	60	0	0	0	0	0	0	3,798,249	3,798,249	0
г С	Total Peaking	55,650	141,383	192,773	144,365	153,829	86,841	1,395	1,350	1,395	1,395	1,350	1.395	783,121	774,841	8,280
۲ ۲	Less Interruptible	2,035	910	0	Ō	0	2,052	2,010	2,010	1,105	1,105	1,105	2,010	14,342	4,997	9,345
9	Subtotal	975,223	1,385,427	1.590,105	1,382,539	1,198,058	692,373	401.000	235.498	240,732	211.183	285.499	547.376	9.145.013	7,223,725	1,921,288
7 L(ess Company Use	6,927	10,343	12,175	10,362	8,843	5,629	2,998	1,398	1,088	1,104	1,878	4,378	67,123	54,279	12,844
	Total Firm	968,296	1,374,174	1.577,930	1,372,177	1,189,215	684,692	395,992	232,090	238,539	208,974	282,516	540,988	9,065,583	7,166,484	1,899,099
9 5 5 5 6	Variable Costs															
1 12	Total Pipeline	\$ 3,396,155	\$ 4,481,555	\$ 4,723,830	\$ 4,299,913	\$ 3,603,309	\$ 5,602,943	\$ 3,183,568 \$	\$ 1,848,670 \$	1,908,339 \$	1,702,611 \$	2,362,605	\$ 4,653,142	\$ 41,766,640	\$ 26,107,705	15,658,935
I3 Tc	Total Storage	\$ 3,924,131	\$ 5,594,636	\$ 6,638,576	\$ 5,780,587	\$ 4,824,082	\$ 496 3	, , \$	•	•	• '	,		\$ 26,762,508	\$ 26,762,508	•
14 Tc	Total Peaking	\$ 380,348	\$ 969,924	\$ 1,486,093	\$ 996,980	\$ 1,047,067	\$ 592,135	\$ 12,039 \$	\$ 11,651 \$	12,039 \$	12,039 \$	11,651	\$ 12,039	\$ 5,544,005	\$ 5,472,547	71,458
15	Subtotal	\$ 7,700,634	\$ 11,046,115	\$ 12,848,499	\$ 11,077,480	\$ 9,474,458	\$ 6,195,574	\$ 3,195,607	\$ 1.860,321 \$	1,920,378 \$	1,714,650 \$	2,374,256	\$ 4,665,181	\$ 74,073,153	\$ 58,342,760	15,730,393
16 Le	Less Interruptible Incl Above	\$ 18,322	5	•	, s		\$ 19,877	\$ 18,151 \$	5 2 8	•	9,439 \$	10,535	5 18,811	\$ 95,142	\$ 38,199	56,943
	Total (Without Interr)	\$ 7,682,312	\$ 11,046,115	\$ 12,848,499	\$ 11,077,480	\$ 9,474,458	\$ 6,175,697	\$ 3,177,456	\$ 1,860,314 \$	1,920,378 \$	1,705,211 \$	2,363,721	4,646,370	\$ 73,978,011	\$ 58,304,561	\$ 15,673,450
19 19																
	Commodity Allocation Factors	ſS														
	Therms															
22	Maine	484,826	660,343	754,451	659,246	575,410	287,174	172,531	99,782	86,168	87,343	121,946	232,879	4,222,099	3,421,450	800,649
23 24	New Hampshire Total	<u>490,396</u> 975.222	725,082 1.385.425	<u>835,647</u> 1.590.098	723,289 1.382.535	<u>622,646</u> 1.1 <u>98.056</u>	405,196 692.370	<u>228,469</u> 401.000	<u>135,716</u> 235,498	<u>154,565</u> 240,733	<u>123,841</u> 211,184	<u>163,553</u> 285,499	314,497 547 376	4,922,897 9,144,996	3,802,256 7,223,706	1,120,641 1,921,290
	Percentage of Total															
27	Maine	49.71%	47.66%	47.45%	47.68%	48.03%	41.48%	43.03%	42.37%	35.79%	41.36%	42.71%	42.54%	46.17%	47.36%	41.67%
28	New Hampshire	50.29%	52.34%	52.55%	52.32%	51.97%	58.52%	56.97%	57.63%	64.21%	58.64%	57.29%	57.46%	53.83%	52.64%	58.33%
30 23	Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	Commodity Allocation by Jurisdiction	Isdiction														
	Maine	\$3.819.217	\$5.264 973	\$6,096,205	\$5,282,170	\$4,550,453	\$2 561 491	\$1.367.106	\$788.227	\$687 380	\$705 254	\$1,009,623	\$1 976 780	\$34 108 879	\$27 574 509	\$6.534.370
34	New Hampshire				\$5,795,310	\$4,924,005	\$3,614,206	\$1,810,350			\$999,958	\$1,354,098				\$9,139,080
5	Total	\$7,682,312 \$	\$11,046,115	\$12,848,499	\$11,077,480	\$9,474,458	\$6,175,697	\$3,177,456	\$1,860,314		\$1,705,211	\$2,363,721	\$4,646,370	\$73,978,011	\$58,304,561 \$	\$15,673,450

י Page I of I

3/7/2007 9:15 AM

.

Northern Utilities Simplified Market Based Alloctor (SMBA) Calculations FIXED CAPACITY-RELATED COSTS

					Ţ	FIXED CAPACITY-RELATED COSTS	<i>'-RELATED C</i>	OSTS							
- 0 0 4 5 6 7 8 9 9 7 1 -	Total Fixed Capacity Related Costs Pipeline Demand Product Demand Storage Demand Subtotal Demand Subtotal Demand Capacity Release Total Demand	2 201AL 56.629.363 53.419.754 59.5694 515.534.064 526,514,064 526,514,064 526,514,064													
- 2 C Z Z S C E	Pipeline & Product Demand Storage & Peaking Less: Injection Fees Less: Capacity Release Total Demand	Nov-07 \$392,189 \$2,104,000 0 \$2,496,188	Dec-07 \$679,006 \$3,055,952 0 \$3,734,958	Jan-08 \$735,707 \$5,624,616 0 \$0 \$6,360,323	Feb-08 \$602.411 \$3,369,931 0 \$3,972,342	Mar-08 \$535,596 \$2,310,151 0 \$2,845,747	Apr-08 \$2.671,834 \$6.369 (6.072) \$2,672,131	May-07 \$857,160 \$1,436 (1,436) <u>0</u> \$857,160	Jun-07 \$389,236 \$35,919 (35,919) (35,919) \$389,236	Jul-07 \$403,246 \$56,676 (56,676) <u>0</u> \$403,246	Aug-07 \$348.084 \$54.667 (54.667) (54.667) 2 2 \$348,084	Sep-07 \$469,696 \$58,532 (58,532) (58,532) (58,532) \$469,696 \$	Oct-07 \$1,964,953 \$151,099 (151,099) <u>0</u> \$1,964,953	TOTAL \$10.049.117 \$16.829.347 (\$364.400) \$26,514,064	
20 E	Firm Sendout Allocation based on PR Allocater Dispatch Nov-07 Dec-1	PR Allocater Di Nov-07	ispatch Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	TOTAL	
22 25 25 25	Maine New Hampshire Total	500.608 <u>507,085</u> 1,007,693	694,867 758,331 1,453,198	799,046 <u>876,040</u> 1,675,086	693,779 <u>756,269</u> 1,450,048	607,504 <u>649,106</u> 1,256,610	409,837 <u>393,660</u> 803,497	273,615 <u>225,679</u> 499,294	186,238 <u>138,279</u> 324,517	194,482 <u>139,083</u> 333,565	173,288 <u>119,563</u> 292,851	207,492 <u>163,263</u> 370,755	345,893 <u>308,468</u> 654,361	5,086,649 <u>5,034,826</u> 10,121,475	
	Percentage of Total Maine New Hampshire Total	Nov-07 49.68% 50.32% 100.00%	Dec-07 47.82% 52.18% 100.00%	Jan-08 47.70% 52.30% 100.00%	Feb-08 47.85% 52.15% 100.00%	Mar-08 48.34% 51.66% 100.00%	Apr-08 51.01% <u>48.99%</u> 100.00%	May-07 54.80% <u>45.20%</u> 100.00%	Jun-07 57.39% 42.61% 100.00%	Jut-07 58.30% <u>41.70%</u> 100.00%	Aug-07 59.17% 40.83% 100.00%	Sep-07 55.96% 44.04% 100.00%	Oct-07 52.86% 47.14% 100.00%	TOTAL 49.54% <u>50.46%</u> 100.00%	
34 D 35 4 36 33 37 D 38 33 38 33 39 34 33 39 34 33 39 34 34 39 34 39 34 39 34 39 34 39 34 39 34 30 34 30 30 34 30 30 34 30 34 30 30 34 30 30 34 30 3	Demand Allocation by Jurisdiction Maine New Hampshire Total	\$1,240,072 <u>\$1,256,116</u> \$2,496,188	\$1.785.922 <u>\$1.949.035</u> \$3.734.958	\$3,033,988 <u>\$3,326,335</u> \$6,360,323	\$1,900,577 <u>\$2,071,765</u> \$3,972,342	\$1,375,767 \$1,469,980 \$2,845,747	\$1,362,965 \$1,309,166 \$2,672,131	\$469,727 <u>\$387,433</u> \$857,160	\$223,380 <u>\$165,856</u> \$389,236	\$235,109 <u>\$168,137</u> \$403,246	\$205,971 <u>\$142,113</u> \$346,084	\$262,864 <u>\$206,832</u> \$469,696	\$1,038.667 \$926.286 \$1,964.953	\$13,135,009 \$13,379,055 \$26,514,064	
	Detailed Demand Allocation by Jurisdiction	sdiction													[
8 4 4 4 9 3 3 4 4 7 3 3 4 7 3	Maine Pipeline & Product Demand \$ Storage & Peaking \$ Injection Fees Copacity Release \$	Nov-07 194,834 1,045,238	Dec-07 \$ 324,676 \$ \$ 1,461,246 \$ \$ 1,461,246 \$ \$ 1 785 0 2 \$	Jan-08 350,946 \$ 2,683,042 \$ 2,683,042 \$ 2,583,042 \$ 2,583,042 \$ 2,732,048 \$ 2,732,048 \$ 2,732,048 \$ 2,588 \$ 2	Feb-08 288.225 \$ 1,612,352 \$ 1,612,352 \$ 5 - 5 \$ 5 - 5 5 - 5 5	Mar-08 258,932 \$ 1,116,835 \$ 1,116,835 \$ 5 1,116,835 \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Apr-08 1,362,813 3,249 (3,097) \$ 5 (3,097) 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	May-07 469,727 \$ 787 \$ (787) \$ (787) \$	Jun-07 223,380 \$ 20,613 \$ (20,613) \$ (20,613) \$	Jul-07 235,109 \$ 33,044 \$ (33,044 \$ (33,044) \$ 235,100 \$	Aug-07 205,971 \$ 32,348 \$ (32,348) \$ (32,348) \$ 205,071 \$	Sep-07 262,864 \$ 32,757 \$ (32,757 \$ (32,757) \$	Oct-07 1,038.667 79,871 (79,871) 1.038.667	TOTAL 5,216,144 8,121,383 (202,517) 13,135,000	51.91% 48.10% 0.00%
55 55 59 <u>P</u>	P	197.355 1,058,762 - 1.256,116	11	384.762 \$ 384.762 \$ 2.941.573 \$ 5 3.326.335 \$		276.664 1,193,316 1,469.980	1.309.021 3.120 (2.975) 1.309.166		I	-	~	206,832 25,775 (25,775) 206,832 206,832	926.286 71.229 (71.229) 926.286		48.09% 51.90% <u>0.00%</u> 50.46%

Page 2 of 2

Northern Utilities Simplified Market Based Alloctor (SMBA) Calculations FIXED CAPACITY-RELATED COSTS

Proportional Responsibility (PR) Allocator Used to Allocate Product and Pipeline Demand Costs (including Injections)
 (based on Pipeline Design Day Sendout)

>							
4		Pipeline Vos	Rank	%WINTER	РЯ	CumPR	\$\$
ŝ							
9	NON	326,094	10	46.36%	0.029%	3.903%	\$392,189
2	DEC	457,413	£	65.04%	0.762%	6.757%	\$679,006
æ	NAL	473,287	4	67.29%	0.564%	7.321%	\$735,707
6	FEB	430,609	9	61.22%	0.665%	5.995%	\$602.411
₽	MAR	402,551	7	57.24%	0.656%	5.330%	\$535,596
÷	APR	703,329	-	100.00%	7.034%	26.588%	\$2,671,834
12	MAY	498,788	e	70.92%	1.209%	8.530%	\$857,160
13	NUL	324,027	7	46.07%	0.410%	3.873%	\$389,236
14	JUL	333,059	6	47.35%	0.110%	4.013%	\$403,246
15	AUG	292,345	12	41.57%	3.464%	3.464%	\$348,084
16	SEP	370,265	80	52.64%	0.661%	4.674%	\$469,696
;	OCT	653,855	2	92.97%	11.024%	19.553%	\$1,964,953
18	TOTAL	5,265,622			26.588%	100.000%	\$10,049,117
19							
20							
2	Proportional Responsibility (PR) Allocator Used to Allocate Storage and Peaking Demand Costs	R) Allocator Used to	o Allocate Sto	rage and Peaking	Demand Costs		
22	(based on Storage Withdrawls from Design Day Sendout	from Design Day Ser	(thout)				
23		Storage					

24		Storage Withdrawal Vols	Rank	%WINTER	РЯ	CumPR	\$\$	Less Injection Fees	TOTAL
25									
26	NOV	648,934	5	63.90%	12.777%	12.779%	\$2,104,000	\$0	\$2,104,000
27	DEC	837,811	e	82.49%	4.530%	18.560%	\$3,055,952	\$0	\$3,055,952
28	JAN	1,015,624	-	100.00%	13.694%	34.161%	\$5,624,616	\$0	\$5,624,616
29	FEB	876,546	2	86.31%	1.907%	20.467%	\$3,369.931	\$0	\$3,369,931
30	MAR	669,799	4	68.90%	1.252%	14.031%	\$2,310,151	\$0	\$2,310,151
31	APR	110	9	0.01%	0.002%	0.002%	\$297	\$6,072	\$6,369
32	MAY	0	7	0.00%	0.000%	%000.0	\$0	\$1,436	\$1,436
33	NUL	0	7	0.00%	0.000%	0.000%	\$0	\$35,919	\$35,919
34	JUL	0	2	0.00%	%000.0	0.000%	\$0	\$56,676	\$56,676
35	AUG	0	2	0.00%	0.000%	0.000%	\$0	\$54,667	\$54,667
36	SEP	0	7	0.00%	0.000%	0.000%	\$0	\$58,532	\$58.532
37	OCT	0	7	0.00%	0.000%	0.000%	\$0	\$151,099	\$151,099
38	TOTAL	4,078,824			34.161%	100.000%	\$16,464,947	\$364,400	\$16,829,347
39			7						
40									

A1 Dareau	tano of Dollvoriae in	Decembers of Deliveries Interted - Altorator fleed to Attorate Storage Intertion Feed	d to Allocate	Storage Injection 5	000
41 Feicen	in saliaviau io afiel	Storage		Percentage of	Injection
43		Injection Vols	Pipeline	Deliveries Inj.	Fees
44					
45	NOV	0	326,094	0.00%	¥.
46	DEC	0	457,413	0.00%	Ŭ.
47	JAN	0	473,287	0.00%	¥.
48	FEB	0	430,609	0.00%	Ŭ.
49	MAR	0	402,551	0.00%	¥,
50	APR	1,602	703,329	0.23%	\$6,07
51	MAY	837	498,788	0.17%	\$1,43
52	NUL	32,941	324,027	9.23%	\$35,91
53	JUL	54,466	333,059	14.05%	\$56,67
54	AUG	54,467	292,345	15.71%	\$54.66
55	SEP	52,710	370,265	12.46%	\$58,53
56	OCT	54,468	653,855	7.69%	\$151,099
57	TOTAL	251.491	5.265.622	4.56%	\$364.40

Closing-Da Contract-I	M Contract-N	Contract-S High		Low	Open	Close	Volume
2/28/2007 2007-04	NGJ2007	NG0	7.42	7.25	7.36	7.3	48200
2/28/2007 2007-05	NGK2007	NG1	7.51	7.365	7.45	7.405	10159
2/28/2007 2007-06	NGM2007	NG2	7.61	7.46	7.525	7.507	6511
2/28/2007 2007-07	NGN2007	NG3	7.7	7.595	7.7	7.614	4044
2/28/2007 2007-08	NGQ2007	NG4	7.77	7.69	7.76	7.707	1428
2/28/2007 2007-09	NGU2007	NG5	7.87	7.76	7.87	7.762	1564
2/28/2007 2007-10	NGV2007	NG6	7.97	7.88	7.97	7.86	3662
2/28/2007 2007-11	NGX2007	NG7	8.455	8.44	8.44	8.45	623
2/28/2007 2007-12	NGZ2007	NG8	9.01	9.01	9.01	9.015	803
2/28/2007 2008-01	NGF2008	NG9	9.32	9.3	9.32	9.32	1705
2/28/2007 2008-02	NGG2008	NG10	9.38	9.3	9.34	9.315	757
2/28/2007 2008-03	NGH2008	NG11	9.12	9.08	9.12	9.095	872
2/28/2007 2008-04	NGJ2008	NG12	7.73	7.71	7.71	7.695	352
2/28/2007 2008-05	NGK2008	NG13	7.65	7.65	7.65	7.575	77
2/28/2007 2008-06	NGM2008	NG14	7.69	7.69	7.69	7.625	52
2/28/2007 2008-07	NGN2008	NG15	7.69	7.69	7.69	7.69	58
2/28/2007 2008-08	NGQ2008	NG16	7.75	7.75	7.75	7.75	28
2/28/2007 2008-09	NGU2008	NG17	7.8	7.8	7.8	7.8	16
2/28/2007 2008-10	NGV2008	NG18	7.96	7.96	7.96	7.9	10
2/28/2007 2008-11	NGX2008		8.4	8.4	8.4	8.36	20
2/28/2007 2008-12	NGZ2008		8.85	8.85	8.85		18
2/28/2007 2009-01	NGF2009		9.1	9.1	9.1		80
2/28/2007 2009-02	NGG2009		9.08	9.08	9.08		
2/28/2007 2009-03	NGH2009	NG23	8.83	8.83	8.83	8.83	
2/28/2007 2009-04	NGJ2009	NG24	7.39	7.39	7.39	7.39	0
2/28/2007 2009-05	NGK2009		7.26	7.26	7.26	7.26	1
2/28/2007 2009-06	NGM2009		7.33	7.33	7.33	7.33	100
2/28/2007 2009-07	NGN2009		7.405	7.405	7.405	7.405	102
2/28/2007 2009-08	NGQ2009		7.455	7.455	7.455	7.455	104
2/28/2007 2009-09	NGU2009		7.505	7.505	7.505		
2/28/2007 2009-10	NGV2009		7.7	7.7	7.7		100
2/28/2007 2009-11	NGX2009		8.04	8.04	8.04		0
2/28/2007 2009-12	NGZ2009		8.455	8.455	8.455		0
2/28/2007 2010-01	NGF2010		8.68	8.68	8.68		55
2/28/2007 2010-02	NGG2010		8.69	8.69	8.69		0
2/28/2007 2010-03	NGH2010	NG35	8.475	8.475	8.475	8.475	0

Northern Utilities Demand Detail

Pipeline	Contract #	Zone	MDTQ	Demand Rate	No. Mos.	Monthly Cost	Annual Cost	Capacity Use
Domac			5,000	\$39.9859	12	\$199,930	\$2,399,154	Product
Duke	93201F	FT-NN	36,000	\$5.6700	5	\$204,120	\$1,020,600	Product
Algonquin	93002F	AFT-2-F-1	4,211	\$6.1138	12	\$25,745	\$308,943	Pipeline
Algonquin		AFT-1F-2/F-3	286	\$5.9771	12	\$1,709	\$20,513	Pipeline
Algonquin	93201A1C	AFT F-2/F-3	965	\$5.9771	12	\$5,768	\$69,215	Pipeline
Granite State	93201F	FT-NN	1,120	\$1.2639	12	\$1,416	\$16,987	Pipeline
Granite State	93201F	FT-NN	33,000	\$1.2639	12	\$41,709	\$500,504	Storage
Granite State	93201F	FT-NN	64	\$1.2639	12	\$81	\$971	Storage
Granite State	93201F	FT-NN	21	\$1.2639	12	\$27	\$319	Storage
Granite State	93201F	FT-NN	13,155	\$1.2639	12	\$16,627	\$199,519	Pipeline
Granite State	93201F	FT-NN	1,310	\$1.2639	12	\$1,656	\$19,869	Pipeline
Granite State	93201F	FT-NN	34,000	\$1.2639	12	\$42,973	\$515,671	Pipeline
Granite State	93201F	FT-NN	929	\$1.2639	12	\$1,174	\$14,090	Pipeline
Granite State	93201F	FT-NN	1,406	\$1.2639	12	\$1,777	\$21,325	Pipeline
Granite State	93201F	FT-NN	2,226	\$1.2639	12	\$2,813	\$33,761	Pipeline
Granite State	93201F	FT-NN	4,267	\$1.2639	12	\$5,393	\$64,717	Pipeline
Granite State	93201F	FT-NN	4,899	\$1.2639	12	\$6,192	\$74,302	Storage
Granite State	93201F	FT-NN	950	\$1.2639	12	\$1,201	\$14,408	Pipeline
Granite State	93201F	FT-NN	2,653	\$1.2639	12			,
Iroquois	R181001	RTS-1	2,000	\$6.5970	12	\$3,353	\$40,238	Storage Pipeline
, , ,	R181001	RTS-1				\$15,186 \$28,140	\$182,236 \$227,702	,
Iroquois PNGTS	K101001	R13-1	4,267	\$6.5970	12	\$28,149 \$28,440	\$337,793	Pipeline
	4		1,100	\$25.8542	12	\$28,440	\$341,275	Pipeline
TCPL-Empress to East Hereford Tennessee Gas			1,000	\$29.7000	12	\$29,700	\$356,342	Pipeline
	39735		929	\$4.9300	12	\$4,580	\$54,960	Pipeline
Tennessee Gas	5083		5,788	\$15.1500	12	\$87,688	\$1,052,258	Pipeline
Tennessee Gas	5083		2,762	\$15.1500	12	\$41,844	\$502,132	Pipeline
Tennessee Gas	5083		4,605	\$16.5900	12	\$76,397	\$916,763	Pipeline
essee Gas	5292		1,406	\$4.9300	12	\$6,932	\$83,179	Pipeline
	5296		950	\$10.3400	12	\$9,823	\$117,876	Pipeline
Tennessee Gas		Segmnt 3 NET	1,382	\$5.0700	12	\$7,007	\$84,081	Pipeline
Tennessee Gas		Segmnt 3 & 4	844	\$10.6100	12	\$8,955	\$107,458	Pipeline
Tennessee Gas	31862-4109		4,267	\$6.4140	12	\$27,369	\$328,422	Pipeline
Texas Eastern	800384		965	\$5.6080	12	\$5,412	\$64,941	Pipeline
Texas Eastern	800484		16	\$6.8050	12	\$109	\$1,307	Pipeline
Texas Eastern	800484		18	\$2.8260	12	\$51	\$610	Pipeline
Texas Eastern	800484		33	\$2.3750	12	\$78	\$941	Pipeline
Texas Eastern	800484		9	\$2.1890	12	\$20	\$236	Pipeline
Texas Eastern	800484	M1-M3 CDS	59	\$10.6480	12	\$628	\$7,539	Pipeline
Trans Canada Pipeline			286	\$2.8992	12	\$829	\$9,950	Pipeline
Vector			6,070	\$8.5249	12	\$51,746	\$620,954	Pipeline
MCN			34,000	\$18.0000	5	\$612,000	\$3,060,000	Peaking
PNGTS		Westbrook	20,000	\$49.1229	5	\$982,458	\$4,912,290	Peaking
PNGTS		Newington	13,000	\$49.1229	5	\$638,598	\$3,192,989	Peaking
Tennessee FS-MA Capacity	5195		259,337	\$0.0185	12	\$4,798	\$57,573	Storage
Tennessee FS-MA Deliverability	5195	ZN4	4,243	\$1.1500	12	\$4,879	\$58,553	Storage
Tennessee Gas	5265	4-6	2,653	\$5.8900	12	\$15,626	\$187,519	Storage
Texas Eastern	800436	M3-M3 CDS	64	\$5.1710	12	\$331	\$3,971	Storage
Texas Eastern FSS-1 Reservation	400513		64	\$0.8950	12	\$57	\$687	Storage
Texas Eastern FSS-1 Reservation	400215		21	\$5.4360	12	\$114	\$1,370	Storage
Texas Eastern FSS-1 Space	400513		320	\$0.1293	12	\$41	\$497	Storage
Texas Eastern FSS-1 Space	400215		123	\$0.1293	12	\$16	\$191	Storage
Trans Canada Pipeline			34,000	\$10.7200	12	\$364,480	\$4,372,974	Peaking
Union			6,003	\$2.2085	12	\$13,258	\$159,094	Pipeline
						. ,—		

TOTAL

~*

. •

\$26,514,064
\$6,629,363
\$3,419,754
\$926,694
\$15,538,253

ALGONQUIN GAS TRANSMISSION, LLC

SUMMARY OF RATES

Currently Effective Rates 12/01/2006

•RATE SCHEDULE AFT-1

		Commo	dity	Authorized	Overrun	Capacity Release
	Reservation	Max	Min	Max	Min	Vol Res
(F-1/WS-1)	\$ 6.5854	\$0.0128	\$0.0128	\$0.2293	\$0.0128	\$0.2165
(F-2/F-3)	\$ 6.5854	\$0.0128	\$0.0128	\$0.2293	\$0.0128	\$0.2165
(F-4)	\$ 6.5854	\$0.0128	\$0.0128	\$0.2293	\$0.0128	\$0.2165
(STB/SS-3)	\$ 6.5854	\$0.0128	\$0.0128	\$0.2293	\$0.0128	\$0.2165
(FTP)	\$11.8368	\$0.0016	\$0.0016	\$0.3908	\$0.0016	\$0.3892
(PSS-T)	\$ 9.7854	\$0.0016	\$0.0016	\$0.3233	\$0.0016	\$0.3217
(AFT-2)	\$ 6.1138	\$0.0016	\$0.0016	\$0.2026	\$0.0016	\$0.2010
(AFT-3)	\$10.7554	\$0.0016	\$0.0016	\$0.3552	\$0.0016	\$0.3536
(AFT-5)	\$12.6265	\$0.0016	\$0.0016	\$0.4167	\$0.0016	\$0.4151
(ITP)	\$13.0110	\$0.0016	\$0.0016	\$0.4294	\$0.0016	\$0.4278
(X-35)	\$10.2027	\$0.0016	\$0.0016	\$0.3370	\$0.0016	\$0.3354
X-39	\$13.2089	\$0.0016	\$0.0016	\$0.4359	\$0.0016	\$0.4343
Incremental	Surcharges					
Hubline	\$ 1.8607	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0612
Secondary Siverton	1/ \$ 1.6424	\$0.0612 \$0.0000	\$0.0000 \$0.0000	\$0.0000	\$0.0000	\$0.0540

•RATE SCHEDULE AFT-1S

		Commo	dity	Authorized	Overrun	Capacity Release
	Reservation	Max	Min	Max	Min	Vol Res
(F-1/WS-1)	\$ 2.6342	\$0.2293	\$0.0128	\$0.2293	\$0.012B	\$0.0866
(F-2/F-3)	\$ 2.6342	\$0.2293	\$0.0128	\$0.2293	\$0.0128	\$0.0866
(F-4)	\$ 2.6342	\$0.2293	\$0.0128	\$0.2293	\$0.0128	\$0.0866
(STB/SS-3)	\$ 2.6342	\$0.2293	\$0.0128	\$0.2293	\$0.0128	\$0.0866
(Hubline) 1	/	\$0.0612	\$0.0000			

.OTHER FIRM RATE SCHEDULES

		Commodity		Authorized Overrun		Capacity Release	
	Reservation	Max	Min	Max	Min	Vol Res	
AFT-E	\$ 6.5854	\$0.0128	\$0.0128	\$0.2293	\$0.0128	\$0.2165	
(Hubline)	1/	\$0.0612	\$0.0000				
AFT-ES	\$ 2.6342	\$0.2293	\$0.0128	\$0.2293	\$0.0128	\$0.0866	
(Hubline)	1/	\$0.0612	\$0.0000				
2-1	\$ 1.6480	\$0.0055		\$0.0597			
AFT-4	\$ 3.5211	\$0.0029		\$0.1187			

http://infopost.spectraenergy.com/regulatory/ratecard/ag/agdec06.htm

AFT-CL:						
Canal \$	2.0858	\$0.0016	\$0.0016	\$0.0702	\$0.0016	\$0.0686
Middletown \$	3.2764	\$0.0016	\$0.0016	\$0.1093	\$0.0016	\$0.1077
· Cleary \$	1.4529	\$0.0016	\$0.0016	\$0.0494	\$0.0016	\$0.047B
Lake Road \$	0.6476	\$0.0016	\$0.0016	\$0.0229	\$0.0016	\$0.0213
Brayton Pt. \$	1.2700	\$0.0016	\$0.0016	\$0.0434	\$0.0016	\$0.0418
Manchester \$	2.4500	\$0.0016	\$0.0016	\$0.0821	\$0.0016	\$0.0805
Bellingham \$	0.9714	\$0.0016	\$0.0016	\$0.0335	\$0.0016	\$0.0319
Phelps Dodge\$	0.0000	\$0.0182	\$0.0016	\$0.0182	\$0.0016	\$0.0000
X-33 \$	3.0873	\$0.0411		\$0.1426		

• INTERRUPTIBLE SERVICE

	Commoc	dity	Authorized	Overrun	
	Max	Min	Max	Min	
AIT-1	\$0.2441	\$0.0092	\$0.2441	\$0.0092	
(Hubline 1/)	\$0.0612	\$0.0000			
AIT-2					
Brayton Pt.	\$0.0434	\$0.0016	\$0.0434	\$0.0016	
Manchester	\$0.0821	\$0.0016	\$0.0821	\$0.0016	
PAL	\$0.2441	\$0.0000	\$0.0000	\$0.0000	

•TITLE TRANSFER TRACKING SERVICE

	Max	Min
'TT	\$5.3900	\$0.0000

Rates are per MMBTU. Commodity rates include ACA Charges of \$0.0016 and applicable GRI Commodity Surcharge.

GRI Max Surcharges:	
Reservation Surcharge	
High Load Factor	\$0.0000
Low Load Factor	\$0.0000
Commodity Surcharge	\$0.0000
Small Customer Commodity Surcharge	\$0.0000

•FUEL REIMBURSEMENT PERCENTAGES

Period Duration		FRP
Winter	Dec 1 - Mar 31	1.37%
Spring, Summer		
and Fall	Apr 1 - Nov 30	0.66%

1/ Hubline Surcharge applicable to all customers utilizing secondary receipt points between and "ncluding Beverly and Weymouth and/or utilizing secondary delivery points between Beverly and Neymouth, including Beverly and excluding Weymouth, and in addition to other applicable charges.

Previous Next

Iroquois Gas Transmission System, L.P.	Thirtieth Revised Sheet No. 4
FERC Gas Tariff	Superseding
FIRST REVISED VOLUME NO. 1	Twenty-Ninth Revised Sheet No. 4

----- RATES (All in \$ Per Dth) -----

	Non-Settlement			ent Recourse Rat		
	Recourse &	Applicat	ole to Non-East	tchester/Non-Cor	ntesting Shippe	ers 2/
	Eastchester Initial	Effective	Effective	Effective	Effective	Effective
				1/1/2005	1/1/2006	1/1/2007
Minimum	Rates 3/	1/1/2003	7/1/2004	1/1/2005	1/1/2006	1/1/2007
RTS DEMAND:				0.0 0.5 1.4	AC 7700	AC 5071
Zone 1 \$0.0000	\$7.5637	\$7.5637	\$6.9586	\$6.8514	\$6.7788	\$6.5971
Zone 2 \$0.0000	\$6.4976	\$6.4976	\$5.9778	\$5.8857	\$5.8233	\$5.6673
Inter-Zone \$0.0000	\$12.7150	\$12.7150	\$11.6978	\$11.5177	\$11.3956	\$11.0902
Zone 1 (MFV) 1/ \$0.0000	\$5.3607	\$5.3607	\$4.9318	\$4.8559	\$4.8044	\$4.6757
RTS COMMODITY:						
Zone 1 \$0.0030	\$0.0030	\$0.0030	\$0.0030	\$0.0030	\$0.0030	\$0.0030
Zone 2 \$0.0024	\$0.0024	\$0.0024	\$0.0024	\$0.0024	\$0.0024	\$0.0024
Inter-Zone \$0.0054	\$0.0054	\$0.0054	\$0.0054	\$0.0054	\$0.0054	\$0.0054
	\$0.1506	\$0.1506	\$0.1386	\$0.1364	\$0.1350	\$0.1314
Zone 1 (MFV) 1/ \$0.0300	\$0.1306	\$0.1506	\$0.1300	90.1904	<i>40.1330</i>	Q0.1314
ITS COMMODITY:						
Zone 1 \$0.0030	\$0.2517	\$0.2517	\$0.2318	\$0.2283	\$0.2259	\$0.2199
Zone 2 \$0.0024	\$0.2160	\$0.2160	\$0.1989	\$0.1959	\$0.1938	\$0.1887
Inter-Zone \$0.0054	\$0.4234	\$0.4234	\$0.3900	\$0.3840	\$0.3800	\$0.3700
Zone 1 (MFV) 1/ \$0.0300	\$0.3268	\$0.3268	\$0.3007	\$0.2960	\$0.2929	\$0.2850
MAXIMUM VOLUMETRIC CAPA				00.0050	00 0000	00 0100
Jone 1 \$0.0000	\$0.2487	\$0.2487	\$0.2288	\$0.2253	\$0.2229	\$0.2169
Zone 2 \$0.0000	\$0.2136	\$0.2136	\$0.1965	\$0.1935	\$0.1915	\$0.1863
Inter-Zone \$0.0000	\$0.4180	\$0.4180	\$0.3846	\$0.3787	\$0.3746	\$0.3646
Zone 1 (MFV) 1/ \$0.0000	\$0.1762	\$0.1762	\$0.1621	\$0.1596	\$0.1580	\$0.1537

**SEE SHEET NO. 4A FOR ADJUSTMENTS TO RATES WHICH MAY BE APPLICABLE

1/ As authorized pursuant to order of the Federal Energy Regulatory Commission, Docket Nos. RS92-17-003, et al., dated June 18, 1993 (63 FERC para. 61,285).

2/ Settlement Recourse Rates were established in Iroquois' Settlement dated August 29, 2003, which was approved by Commission order issued Oct. 24, 2003, in Docket No. RP03-589-000. That Settlement also established a moratorium on changes to the Settlement Rates until January 1, 2008, defines the Non-Eastchester/Non-Contesting parties to which it applies, and provides that Iroquois' TCRA will be terminated on July 1, 2004.

3/ See Sections 1.2 and 4.3 of the Settlement referenced in footnote 2. As directed by the Commission's January 30, 2004 Order in Docket No. RP04-136, the Eastchester Initial Rates apply for service to Eastchester Shippers prior to the July 1, 2004 effective date of the rates set forth on Sheet No. 4C.

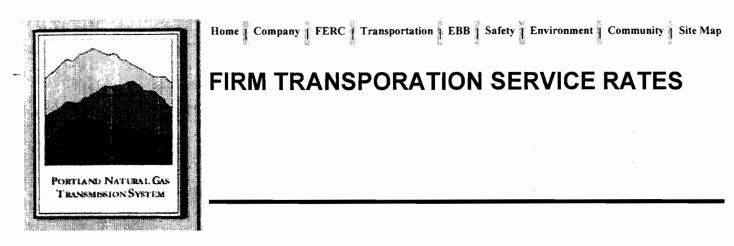
Issued by: Jeffrey A. Bruner, Vice Pres., Gen Counsel & Secretary

Issued on: Feb 04, 2004

Effective: Feb 05, 2004

Previous Next	
_ Iroquois Gas Transmission System, L.P.	Eighteen Revised Sheet No. 4A
ERC Gas Tariff	Superseding
FIRST REVISED VOLUME NO. 1	Seventeen Revised Sheet No. 4A
To the extent applicable, the following adjustmen	ts apply:
ACA ADJUSTMENT:	
Commodity 0.0016	
DEFERRED ASSET SURCHARGE:	
Commodity	
Zone 1 0.0005	
Zone 2 0.0003	
Inter-Zone 0.0008	
MEASUREMENT VARIANCE/FUEL USE FACTOR:	
Minimum	0.00%
Maximum (Non-Eastchester Shipper)	1.00%
Maximum (Eastchester Shipper)	4.50%
Issued by: Jeffrey A. Bruner, Vice Pres., Gen Cou	nsel & Secretary
Tacuad and Aug 21 2006	Effective: Oct 01, 2006
Issued on: Aug 31, 2006	Effective: Oct 01, 2006

Previous Next



(Rates per Dth)

Firm Transportation (FT) Rate Schedule Reservation Rate (monthly per Dth of Demand)

Rate Component	Base Rate*	ACA Unit Charge	Current Rate*
Maximum	\$25.8542	\$ 0.0000	\$25.8542
Minimum	\$ 0.0000	\$ 0.0000	\$ 0.0000

Usage Rate (rate per Dth Transported)

Rate Component	Base Rate*	ACA Unit Charge	Current Rate*
Maximum	\$ 0.0000	\$ 0.0016	\$ 0.0016
Minimum	\$ 0.0000	\$ 0.0016	\$ 0.0016

Flexible Firm Transportation (FT-X) Rate Schedule Reservation Rate (monthly per Dth of Demand)

Rate Component	Base Rate*	ACA Unit Charge	Current Rate*
Maximum	\$ 17.3553	\$ 0.0000	\$ 17.3553
Minimum	\$ 0.0000	\$ 0.0000	\$ 0.0000

Usage Rate (rate per Dth Transported)

Rate Component	Base Rate*	ACA Unit Charge	Current Rate*
Maximum	\$ 0.2795	\$ 0.0016	\$ 0.2811
Minimum	\$ 0.0000	\$ 0.0016	\$ 0.0016

* Monthly measurement variance (MV) applies to all Rate Schedules: maximum: up to +1%

minimum: down to -1%

Home | Company | FERC |Transportation | Operations & Safety | Environment | Community | Site Map | Legal Notice

Portland Natural Gas Transmission System

One Harbour Place - Portsmouth, NH 03801 - Telephone: 603-559-5500 - Fax: 603-427-2807

Copyright © 2000 Portland Natural Gas Transmission System. All images and photographs, all rights reserved. No content or imagery can be used or duplicated without the express written consent of

TENNESSEE GAS PIPELINE COMPANY FERC Gas Tariff FIFTH REVISED VOLUME NO. 1

Eighteenth Revised Sheet No. 23A Superseding Seventeenth Revised Sheet No. 23A

COMMODITY RATES

\$0.0159 \$0.0054 \$0.0004 \$0.0095 \$0.0126 \$0.0184

\$0.0205 \$0.0100 \$0.0095 \$0.0015 \$0.0032 \$0.0090

\$0.0236 \$0.0131 \$0.0126 \$0.0032 \$0.0022 \$0.0069 \$0.0294 \$0.0189 \$0.0184 \$0.0090 \$0.0069 \$0.0031

\$0.0016

RATES PER DEKATHERM

				RAT	E SCHEDU	LE FOR F	A-1		
Base Commodity Rates			******	DEL	IVERY ZO		₽==taĭi t 2 2		=
	RECEIPT ZONE	0	L	1	2	3	4	5	6
	0 L	\$0.0439	\$0.0286		\$0.0880	\$0.0978	\$0.1118	\$0.1231	\$0.1608
	1 2	\$0.0669 \$0.0880	,	\$0.0572		\$0.0874 \$0.0530			
	3 4	\$0.0978 \$0.1129			,	\$0.0366 \$0.0663			
	5 6	\$0.1231 \$0.1608		,	,	\$0.0765 \$0.1142			
Minimum Commodity Rates 2/				DEL	IVERY ZOI	NE			
	RECEIPT ZONE	0	L	1	2	3	4	5	6
	0 L	\$0.0026	\$0.0034	\$0.0096	\$0.0161	\$0.0191	\$0.0233	\$0.0268	\$0.0326
	1 2	\$0.0096 \$0.0161	,			\$0.0159 \$0.0054			

Maximum Commodity Rates 1/, 2/				DEL	IVERY ZO	NE			
	RECEIPT ZONE	0	L	1	2	3	4	5	6
	0	\$0.0455		\$0.0685	\$0.0896	\$0.0994	\$0.1134	\$0.1247	\$0.1624
	1	\$0.0685	\$0.0302			\$0.0890			
	2 3	\$0.0896 \$0.0994		,		\$0.0546 \$0.0382			
	4 5	\$0.1145 \$0.1247				\$0.0679 \$0.0781			
	6	\$0.1624				\$0.1158			
Notes									

Notes:

1/ The above maximum rates include a per Dth charge for: (ACA) Annual Charge Adjustment

2/ The applicable fuel retention percentages are listed on Sheet No. 29, provided that for service rendered solely by displacement, shipper shall render only the quantity of gas associated with losses of .5%.

Issued by: Marguerite Woung-Chapman, Vice President Issued on: August 31, 2006 Effective on: October 1, 2006

3

4

5

6

\$0.0191

\$0.0237

\$0.0268

\$0.0326

TENNESSEE GAS PIPELINE COMPANY FERC Gas Tariff FIFTH REVISED VOLUME NO. 1

Sixteenth Revised Sheet No. 27 Superseding Fifteenth Revised Sheet No. 27

RATES PER DEKATHERM

		STORAGE SERVICE							
Rate Schedule and Rate		ADJUSTMENTS (ACA) (TCSM) (PCB) 2/	Current Adjustment	Retention Percent 1					
FIRM STORAGE SERVICE (FS) PRODUCTION AREA	-								
Deliverability Rate	\$2.02	\$0.00	\$2.02						
Space Rate	\$0.0248	\$0.0000	\$0.0248						
Injection Rate	\$0.0053		\$0.0053	1.49%					
	\$0.0053		\$0.0053						
Overrun Rate	\$0.2427		\$0.2427						
FIRM STORAGE SERVICE (FS) MARKET AREA	-								
Deliverability Rate	\$1.15	\$0.00	\$1.15						
Space Rate	\$0.0185	\$0.000	\$0.0185						
Injection Rate	\$0.0102	\$0.0000	\$0.0102	1.49%					
Withdrawal Rate	\$0.0102		\$0.0102	1.496					
Overrun Rate	\$0.1380		\$0.1380						
INTERRUPTIBLE STORAGE SERV (IS) - MARKET AREA	/ICE								
Space Rate	\$0.0848	\$0.0000	\$0.0848						
Injection Rate	1	\$0.0000	\$0.0102	1.49%					
Withdrawal Rate	\$0.0102		\$0.0102	1.490					
INTERRUPTIBLE STORAGE SERV			+0.0102						
(IS) - PRODUCTION AREA									
Space Rate	\$0.0993	\$0.0000	\$0.0993						
Injection Rate	\$0.0053	\$0.0000	\$0.0053	1.49%					
Withdrawal Rate	\$0.0053		\$0.0053	1.496					
withdrawal Rate	\$0.0053		\$0.0053						

1/ The quantity of gas associated with losses is 0.5%.

2/ PCB adjustment surcharge originally effective for PCB Adjustment Period of July 1, 1995 - June 30, 2000, was revised and the PCB Adjustment Period has been extended until June 30, 2008 as required by the Stipulation and Agreement filed on May 15, 1995 and approved by Commission Orders issued November 29, 1995 and February 20, 1996.

Issued by: Byron S. Wright, Vice President Issued on: May 31, 2006

Effective on: July 1, 2006

Previous Next Search

TENNESSEE GAS PIPELINE COMPANY FERC Gas Tariff "IFTH REVISED VOLUME NO. 1

Twenty-Seventh Revised Sheet No. 26 Superseding Twenty-Sixth Revised Sheet No. 26

	RATES	PER	DEKATHERM
--	-------	-----	-----------

=							
	ADJUS	TMENTS		Rate After			
	(ACA)	(TCSM)	(PCB) 6/	Current Adjustments			
 \$9.65			\$0.00				
 \$9.65 \$1.33			\$0.00 \$0.00				
				\$1.33			
\$1.33			\$0.00	\$1.33 \$8.08			
\$1.33 \$8.08			\$0.00 \$0.00	\$1.33 \$8.08 \$5.07			
	Tariff	Tariff					

RATE SCHEDULE NET

Notes:

- 1/ A specific customer's Monthly Demand Rate is dependent upon the location of its points of receipt and delivery, and is to be determined by summing the Monthly Demand Rate components for those pipeline segments connecting said points.
- 2/ The applicable surcharges for ACA and TCSM will be assessed on actual quantities delivered and are not dependent upon the location of points of receipt and delivery.

3/ Reserved for future use.

4/ Reserved for future use.

5/ Rates are subject to negotiation pursuant to the terms of the Rate Schedule for NET.

6/ PCB adjustment surcharge originally effective for PCB Adjustment Period of July 1, 1995 - June 30, 2000, was revised and the PCB Adjustment Period has been extended until June 30, 2008 as required by the Stipulation and Agreement filed on May 15, 1995 and approved by Commission Orders issued November 29, 1995 and February 20, 1996.

7/ The applicable fuel retention percentages are listed on Sheet Nos. 180 and 181.

Issued by: Marguerite Woung-Chapman, Vice President Issued on: August 31, 2006 Effective on: October 1, 2006

Previous Next Search

TENNESSEE GAS PIPELINE COMPANY FERC Gas Tariff "IFTH REVISED VOLUME NO. 1

Thirty-Ninth Revised Sheet No. 26B Superseding Thirty-Eighth Revised Sheet No. 26B

RATES PER DEKATHERM

			RATE SCHEDULE NET 284					
Rate Schedule	Tariff	ADJUS			Rate After Current	Fuel and		
and Rate		(ACA)			Adjustments	Use		
Demand Rate 1/, 5/								
Segment U	\$9.65			\$0.00	\$9.65			
Segment 1	\$1.33			\$0.00	\$1.33			
Segment 2	\$8.08			\$0.00	\$8.08			
Segment 3	\$5.07			\$0.00	\$5.07			
Segment 4	\$5.54			\$0.00	\$5.54			
Commodity Rate 2/,	3/	-						
Segments U, 1, 2, 3	3 & 4	\$0.0016			\$0.0016	6/		
Extended Receipt ar	nd Delivery R	ate 4/, 7/	,					
Segment U	\$0.3173				\$0.3173	5.52%		
Segment 1	\$0.0437				\$0.0437	0.69%		
Segment 2	\$0.2656				\$0.2656	0.59%		
Segment 3	\$0.1667				\$0.1667	0.73%		
Segment 4	\$0.1821				\$0.1821	0.36%		

-- -----

Notes:

- 1/ A specific customer's Monthly Demand Rate is dependent upon the location of its points of receipt and delivery, and is to be determined by summing the Monthly Demand Rate components for those pipeline segments connecting said points.
- 2/ The applicable surcharges for ACA and TCSM will be assessed on actual quantities delivered and are not dependent upon the location of points of receipt and delivery.
- 3/ The Incremental Pressure Charge associated with service to MassPower shall be \$0.0334 plus an additional Incremental Fuel Charge of 5.83%.
- 4/ Rates are subject to negotiation pursuant to the terms of the Rate Schedule for NET 284.
 5/ PCB adjustment surcharge originally effective for PCB Adjustment Period of July 1, 1995 June 30, 2000, was revised and the PCB Adjustment Period has been extended until June 30, 2008 as required by the Stipulation and Agreement filed on May 15, 1995 and approved by Commission Orders issued November 29, 1995 and February 20, 1996.
- 6/ The applicable fuel retention percentages are listed on Sheet No. 220A.
- 7/ The Extended Receipt and Delivery Rates are additive for each segment outside of the segments under Shipper's base NET-284 contract.

Issued by: Marguerite Woung-Chapman, Vice President Issued on: August 31, 2006 Effective on: October 1, 2006

Previous Next Search

TENNESSEE GAS PIPELINE COMPANY FERC Gas Tariff FIFTH REVISED VOLUME NO. 1

First Revised Sheet No. 29 Superseding Substitute Original Sheet No. 29

FUEL AND LOSS RETENTION PERCENTAGE 1\,2\,3\

NOVEMBER - MARCH

RECEIPT	Delivery Zone									
ZONE	0	L	1	2	3	4	5	6		
0	0.89%		2.79%	5.16%	5.88%	6.79%	7.88%	8.71%		
L		1.01%								
1	1.74%		1.91%	4.28%	4.99%	5.90%	6.99%	7.82%		
2	4.59%		2.13%	1.43%	2.15%	3.05%	4.15%	4.98%		
3	6.06%		3.60%	1.23%	0.69%	2.64%	3.69%	4.52%		
4	7.43%		4.97%	2.68%	3.07%	1.09%	1.33%	2.17%		
5	7.51%		5.05%	2.76%	3.14%	1.16%	1.28%	2.09%		
6	8.93%		6.47%	4.18%	4.56%	2.50%	1.40%	0.89%		

APRIL - OCTOBER

RECEIPT			Deli	very Zon	e			
ZONE	0	L	1	2	3	4	5	6
0	0.84%		2.44%	4.43%	5.04%	5.80%	6.72%	7.42%
L		0.95%			,			
1	1.56%		1.70%	3.69%	4.29%	5.06%	5.97%	6.67%
2	3.95%		1.88%	1.30%	1.90%	2.66%	3.58%	4.28%
3	5.19%		3.12%	1.13%	0.67%	2.32%	3.19%	3.90%
4	6.34%		4.28%	2.35%	2.67%	1.01%	1.21%	1.92%
5	6.41%		4.34%	2.41%	2.74%	1.07%	1.17%	1.86%
6	7.61%		5.53%	3.61%	3.93%	2.20%	1.27%	0.85%

- 1\ Included in the above Fuel and Loss Retention Percentages is the quantity of gas associated with losses of 0.5%.
- $2\$ For service that is rendered entirely by displacement shipper shall render only the quantity of gas associated with losses of 0.5%.
- 3\ The above percentages are applicable to (IT) Interruptible Transportation, (FT-A) Firm Transportation, (FT-GS) Firm Transportation-GS, (PAT) Preferred Access Transportation, (IT-X) Interruptible Transportation-X, (FT-G) Firm Transportation-G, (EDS/ERS) FT-A Extended Transportation Service.

Issued by: E. J. Holm, Agent and Attorney-in-Fact Issued on: February 13, 1997 Effective on: March 1, 1997 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. RP95-112, issued January 29, 1997, 78 FERC ¶ 61,069

Previous Next Search

TENNESSEE GAS PIPELINE COMPANY FERC Gas Tariff 'IFTH REVISED VOLUME NO. 1

Twenty-Fifth Revised Sheet No. 23 Superseding Twenty-Fourth Revised Sheet No. 23

RATES PER DEKATHERM

RAIES FER DERAIRENT				FIRM TRANSPORTATION RATES RATE SCHEDULE FOR FT-A					
Base Reservation Rates		DELIVERY ZONE							
	RECEIPT ZONE	0	L	1	2	3	4	5	6
	0	\$3.10		\$6.45	\$9.06		\$12.22	\$14.09	\$16.5
		\$6.66	\$2.71		\$7.62			\$12.64	
	2 3	\$9.06 \$10.53			\$2.86 \$4.32			\$7.89 \$7.64	
	4	\$12.53		\$11.08	\$6.32	\$6.08	\$2.71	\$3.38	\$5.8
		\$14.09		\$12.64	\$7.89	\$7.64	\$3.38	\$2.85	\$4.9
	6	\$16.59		\$15.15	\$10.39	\$10.14	\$5.89	\$4.93	\$3.1
Surcharges					DELIVERY				
	RECEIPT ZONE	0	L	1	2	3	4	5	6
PCB Adjustment: 1/	L	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.0
	1	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
	2	\$0.00		\$0.00		\$0.00		\$0.00	
	3	\$0.00		\$0.00		\$0.00		\$0.00	
	4	\$0.00		\$0.00		\$0.00			
	5 6	\$0.00 \$0.00		\$0.00 \$0.00		\$0.00 \$0.00			
						RONE			
Maximum Reservation Rates 2/	RECEIPT				DELIVERY	ZONE			
	ZONE		L	1	2	3	4	5	6
	0	\$3.10			\$9.06				
	L 1	\$6.66	\$2.71	\$4.02	\$7.62	80.02	\$10 77	\$12 64	\$15 1
	2	\$0.00 \$9.06			\$7.62 \$2.86				
	-	\$9.00			\$4.32				
	-	\$12.53		\$11.08	\$6.32	\$6.08	\$2.71	\$3.38	\$5.8
	5	\$14.09		\$12.64	\$7.89 \$10.39	\$7.64	\$3.38	\$2.85	\$4.9
	6	\$16.59		\$15.15	\$10.39	\$10.14	\$5.89	\$4.93	\$3.1
Minimum Base Reservation Rates	The mini	.mum FT-A	Reserva	tion Rat	e is \$0.	00 per D	th		
· · · · · · · · · · · · · · · · · · ·									
Notes: 1/ PCB adjustment surcharge o	originally						July 1, Ne 30, 20		

ssued on: May 31, 2006

Effective on: July 1, 2006

TEXAS EASTERN TRANSMISSION, LP

SUMMARY OF RATES

Currently Effective Rates 12/01/2006

•RESERVATION CHARGES

	CDS	FT-1	SCT
STX-AAB	6.8050	6.5820	2.7220
WLA-AAB	2.8260	2.6030	1.1300
ELA~AAB	2.3750	2.1520	0.9500
ETX-AAB	2.1890	1.9660	0.8760
STX-STX	5.7330	5.5100	2.2920
STX-WLA	5.8920	5.6690	2.3560
STX-ELA	6.8080	6.5850	2.7220
STX-ETX	6.8080	6.5850	2.7220
WLA-WLA	2.0560	1.8330	0.8220
WLA-ELA	2.8290	2.6060	1.1300
WLA-ETX	2.8290	2.6060	1.1300
ELA-ELA	2.3770	2.1540	0.9500
ETX-ETX	2.1910	1.9680	0.8760
ETX-ELA	2.3770	2.1540	0.9500
M1-M1	4.4440	4.2210	1.7760
M1-M2	8.1320	7.9090	3.2510
M1-M3	10.6480	10.4250	4.2570
M2-M2	6.3410	6.1180	2.5350
M2-M3	8.9960	8.7730	3.5960
МЗ-МЗ	5.1710	4.9480	2.0670

SCHEDULES
5.3500
7.9590
7.7140
5.1790
6.5760
6.8640
7.7060
7.5430
7.5430
1.6030
4.0100

M1-M10.0020M1-M20.0020M1-M30.0020

SCT DEMAND CHARGES Access Area 0.0010

• USAGE CHARGES

CDS & FT-1 USAGE-1

Forward Haul	STX	WLA	ELA	ETX	M1	M2	МЗ
from STX	0.0060	0.0067	0.0102	0.0102	0.0216	0.0404	0.0532
from WLA		0.0037	0.0072	0.0072	0.0186	0.0374	0.0502
from ELA			0.0059	0.0059	0.0173	0.0361	0.0489
from ETX				0.0059	0.0173	0.0361	0.0489
from M1					0.0114	0.0302	0.0430
from M2						0.0211	0.0338
from M3							0.0149
Backhaul	STX	WLA	ELA	ETX	M1	M2	МЗ
from STX	0.0088						
from WLA	0.0096	0.0059					

TETCO Rate Summary

0.0140	0.0103	0.0087				
0.0140	0.0103	0.0087	0.0087			
0.0281	0.0244	0.0228	0.0228	0.0141		
0.0483	0.0446	0.0430	0.0430	0.0343	0.0245	
0.0623	0.0586	0.0570	0.0570	0.0483	0.0384	0.0181
	0.0140 0.0281 0.0483	0.0140 0.0103 0.0281 0.0244 0.0483 0.0446	0.0281 0.0244 0.0228 0.0483 0.0446 0.0430	0.01400.01030.00870.00870.02810.02440.02280.02280.04830.04460.04300.0430	0.01400.01030.00870.00870.02810.02440.02280.02280.01410.04830.04460.04300.04300.0343	0.0140 0.0103 0.0087 0.0087

SCT USAGE-1

Forward Hau from STX from WLA from ELA from ETX from M1 from M2 from M3	L STX 0.1871	WLA 0.1930 0.0639	ELA 0.2266 0.0928 0.0767	ETX 0.2266 0.0928 0.0767 0.0705	M1 0.3766 0.2428 0.2267 0.2206 0.1500	M2 0.5167 0.3828 0.3667 0.3606 0.2901 0.2221	M3 0.6121 0.4783 0.4622 0.4561 0.3855 0.3221 0.1774
D - 11							
Backhaul	STX	WLA	ELA	ETX	Ml	M2	MЗ
from STX	STX 0.1899	WLA	ELA	ETX	MI	M2	MЗ
		WLA 0.0661	ELA	ETX	MI	M2	МЗ
from STX	0.1899		ELA 0.0795	ETX	Ш	M2	МЗ
from STX from WLA	0.1899 0.1959	0.0661		ETX 0.0733	М	M2	МЗ
from STX from WLA from ELA	0.1899 0.1959 0.2304	0.0661	0.0795		M1 0.1527	M2	МЗ
from STX from WLA from ELA from ETX	0.1899 0.1959 0.2304 0.2304	0.0661 0.0959 0.0959	0.0795	0.0733		M2 0.2255	МЗ

PTI & IT-1 USAGE-1

· · · · · ·

Forward Haul from STX from WLA from ELA from ETX from M1 from M2 from M3	STX 0.1872	WLA 0.1931 0.0639	ELA 0.2267 0.0929 0.0768	ETX 0.2267 0.0929 0.0768 0.0706	M1 0.3769 0.2431 0.2270 0.2208 0.1502	M2 0.5169 0.3831 0.3670 0.3608 0.2902 0.2222	M3 0.6125 0.4787 0.4626 0.4564 0.3858 0.3222 0.1776
Backhaul	STX	WLA	ELA	ETX	M1	M2	мз
6 0 M17	0 1000						
from STX from WLA	0.1900 0.1960	0.0661					
		0.0661 0.0960	0.0796				
from WLA from ELA from ETX	0.1960 0.2305 0.2305	0.0960 0.0960	0.0796	0.0734			
from WLA from ELA	0.1960 0.2305	0.0960		0.0734 0.2263 0.3677	0.1529 0.2943	0.2256	

.OTHER TRANSPORTATION SERVICES

LLFT	Reservation 3.3400 3.3400 1/	Usage-1 0.0023	Shrinkage 0.43%
LLIT	5.5400 1/	0.1121 0.1121 1/	0.43%
VKFT VKIT	0.0945	0.0945	0.00%

http://infopost.spectraenergy.com/regulatory/ratecard/te/tedec06.htm

FT-1/FTS FT-1/FTS-4 FT-1/M1 FT-1/NC FT-1/RIV FT-1/L1A FT-1/L1A FT-1/LEP FT-1/IRW FT-1/IRW FT-1/IRW	0.6600 3.0110 8.4952 6.5590 10.4380 1.9410 1.5830 4.4610 0.6040 2/ 11.9710 8.7730	0.0338	0.00% 0.28% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 5.36%
MLS-1/FH MLS-1/FA MLS-1/HR	0.6385 0.8690 1.1120	0.0286 3/ 0.0366 3/	0.01% 0.00% 0.01%

1/ Pursuant to Section 26 of the General Terms and Conditions
2/ Effective October 1 through April 30
2/ Pursuant 2/ Purs

3/ Per Section 3.3 of MLS-1 Rate Schedule

•STORAGE SERVICES

	RES.	SPACE	INJ.	WITH.
SS	5.3390	0.1293	0.0324	0.0453
ss-1	5.4360	0.1293	0.0324	0.0452
X-28	4.7400	0.1293	0.0324	0.0410
FSS-1	0.8950	0.1293	0.0324	0.0324
ISS-1		0.0323	0.1881	0.0324

• SHRINKAGE PERCENTAGES (December 1 through March 31)

TRANSPORTATION							
	STX	WLA	ELA	ETX	M1	M2	M3
from STX	3.02%	3.18%	4.05%	4.05%	6.95%	8.55%	9.62%
from WLA	2.43%	2.43%	3.31%	3.31%	6.21%	7.81%	8.88%
from ELA	2.99%	2.99%	2.99%	2.99%	5.89%	7.498	8.56%
from ETX	3.02%	2.99%	2.99%	2.99%	5.89%	7.49%	8.56%
from M1					2.90%	4.50%	5.57%
from M2						3.73%	4.81%
from M3							3.22%

•SHRINKAGE PERCENTAGES (April 1 through November 30)

TRANSPORTATION							
	STX	WLA	ELA	ETX	M1	M2	M3
from STX	2.52%	2.65%	3.35%	3.36%	5.77%	7.07%	7.948
from WLA	2.04%	2.04%	2.75%	2.75%	5.17%	6.47%	7.34%

from ELA 2.4 from ETX 2.5 from M1 from M2		2.49% 2.49%	2.49% 4	.918 .428	6.21% 3.72%	7.08% 7.08% 4.59% 4.97%	
from M3						2.68%	
NON-ASA RATE SCHEDU	JLES						
FTS-4 LEIDY	FTS	1.29%	STORAG	E SERVIC	E 12/01-3	/31	04/01-11/30
(Apr 1-Nov 14) 1.	00% FTS-2	0.00%	WITHDR	AWALS:			
(Nov 15-Mar 31) 4.	89% X-127	0.00%	SS,	ss-1,x-2	8 3.93%		3.42%
CHMSBG 0.	00% X-129	0.00%	FSS	-1,ISS-1	0.89%		0.89%
FTS-5 0.	00% X-130	0.00%					
FTS-7 M3 2.	00% X-135	0.00%	INJECT	IONS	0.89%		0.89%
FTS-7 M1 & M2 0.	00% X-137	1.30%	INVENT	ORY LEVE	L 0.06%		0.06%
FTS-8 M3 1.	50%						
FTS-8 M1 & M2 0.	008						

+ SUF	CHA	RGES
-------	-----	------

GRI Surch	arges	ACA Surcharge
Demand Surcharge High LF	0.0000	Commodity 0.0016
Demand Surcharge Low LF	0.0000	
Commodity	0.0000	
SCT Commodity	0.0000	

TO TOTAL QUILDED FOR DOM DATE DATE OF SHE

* • The Summary of Rates serves as a handy reference and does not replace lexas Eastern's Tariff.



Canadian and Export Transportation Tolls Interim Tolls Effective January 1, 2007

Line No	Particulars	Demand Toll (\$/GJ/mo)	Commodity Toll (\$/GJ)	100% LF Toll (\$/GJ)
	(a)	(b)	(c)	(d)
	Canadian Firm Transportation			
1	Saskatchewan Zone	5,13449	0.01113	0.17994
2	Manitoba Zone	8.77887	0.01929	0.30791
3	Welwyn to Manitoba Zone	3.41289	0.00598	0.11818
4	Western Zone	14.08149	0.03271	0.49566
5	Northern Zone	21.61469	0.05124	0.76186
6	North Bay Junction	23.62512	0.05635	0.83307
7	Eastern Zone	28.06502	0.06731	0.99000
8	Herbert to Eastern Zone	26.37404	0.06312	0.93021
9	Bayhurst to Eastern Zone	27.79865	0.06665	0.98058
10	Success to Eastern Zone	26.87608	0.06436	0.94796
11	Southwest Zone	23.66566	0.05650	0.83455
12	Herbert to Southwest Zone	21.97477	0.05230	0.77476
13	Shackleton to Southwest Zone	22.85302	0.05448	0.80581
14	Steelman to Southwest Zone	20.29695	0.04814	0.71544
15	Suffield to Southwest Zone	23.64784	0.05645	0.83391
	Export Firm Transportation			
16	Empress to Emerson	9.87559	0.02226	0.34694
17	Empress to St. Clair	23.61801	0.05634	0.83282
18	Empress to Chippawa	27.97456	0.06714	0.98685
19	Empress to Niagara Falls	27.95359	0.06709	0.98611
20	Empress to Iroquois	27.40216	0.06572	0.96661
21	Bayhurst to Iroquois	27.13587	0.06506	0.95720
22	Liebenthal to Iroquois	27.01962	0.06477	0.95309
23	Richmound to Iroquois	27.38268	0.06567	0.96592
24	Empress to Cornwall	28.34552	0.06806	0.99997
25	Empress to Philipsburg	29.87462	0.07185	1.05403
26	Herbert to Philipsburg	28.18373	0.06766	0.99425
27	Empress to Napierville	29.72143	0.07147	1.04861
28	Empress to East Hereford	31.49742	0.07587	1.11140
	Shorthaul Firm Transportation			
29	Emerson to Union CDA	16.93263	0.03961	0.59630
30	Emerson to Niagara	17.48538	0.04113	0.61599
31	Dawn to Enbridge CDA	3.46799	0.00636	0.12038
32	Dawn to Enbridge EDA	7.36075	0.01606	0.25806
33	Dawn to Union CDA	2.98201	0.00502	0.10306
34	Dawn to Union EDA	5.74049	0.01199	0.20072
35	Dawn to GMIT EDA	8.29560	0.01841	0.29114
36	Dawn to Iroquois	6.63060	0.01422	0.23221
37	Dawn to Niagara	3.53344	0.00654	0.12271
38	Dawn to Chippawa	3.55441	0.00659	0.12345
38	Dawn to Philipsburg	8.50468	0.01886	0.29847
38	Union Parkway Belt to Union EDA	3.74989	0.00706	0.13034
39	Union Parkway Belt to Iroquois	4.64000	0.00928	0.16183
40	Union Parkway Belt to Enbridge CDA	1.56284	0.00163	0.05301
41	Union Parkway Belt to GMIT EDA	6.30500	0.01348	0.22077
42 43	Union Parkway Belt to Philipsburg	6.51408	0.01393	0.22809
43 44	St. Clair to Union SWDA St. Clair to Chippawa	0.96263	0.00012	0.03177
44 45	St. Clair to Chippawa St. Clair to East Hereford	3.76349 10.33657	0.00711 0.02341	0.13084 0.36324
45	Herbert to Emerson	8.18470	0.01807	0.28716
47	Success to Emerson	8.68674	0.01931	0.30490
48	Bayhurst to Emerson	9.60931	0.02160	0.33752
46	Kirkwall to Chippawa	1.89906	0.00248	0.06491
40	and a support	1.00000	0.00240	0.00701

* All tolls are expressed and payable in Canadian Dollars.



....

Canadian and Export Transportation Tolls Interim Tolls Effective January 1, 2007

Line No	Particulars	Demand Toll (\$/GJ/mo)	Commodity Toll (\$/GJ)	
	(a)	(b)	(c)	
	Storage Transportation Service			
1	Centra Gas Manitoba - MDA	2.25000	0.00336	
2	Union Gas - WDA	13.98417	0.03245	
3	Union Gas - NDA	5.68583	0.01187	
4	Union Gas - EDA	3.67833	0.00690	
5	Kingston PUC	3.56417	0.00661	
6	Gaz Metropolitain - EDA	6.33333	0.01348	
7	Enbridge - CDA	0.93417	0.00009	
8	Enbridge - EDA	2.37083	0.00365	
9	Cornwall	4.98583	0.01014	
10	Philipsburg	6.51417	0.01393	
		Demand Toll	Commodity Toll	Daily Equivalent *(1)
	Delivery Pressure	(\$/GJ/mo)	(\$/GJ)	(\$/GJ)
	(a)	(b)	(C)	(d)
11	Emerson - 1 (Viking)	0.03394	0.00000	0.00112
12	Emerson - 2 (Great Lakes)	0.14207	0.00000	0.00467
13	Dawn	0.05819	0.00000	0.00191
14	Niagara Falls	0.14225	0.00000	0.00468
15	Iroquois	0.68831	0.00000	0.02263
16	Chippawa	1.06237	0.00000	0.03493
17	East Hereford	1.61488	0.00847	0.06156

*(1) The Demand Daily Equivalent Toll is only applicable to STS Injections, IT, Diversions and STFT.

Navigation: Previous Next

ayaraharada jabababan mada ayara ayarabana serada orti ayadan. Wasarada ita adarti tasana manammana mata ayarab

Transcontinental Gas Pipe Line Corporation FERC Gas Tariff Third Revised Volume No. 1

Twenty-Ninth Revised Sheet No. 40 Superseding Twenty-Eighth Revised Sheet No. 40

Includes the

FIRM TRANSPORTATION SERVICE RATES APPLICABLE TO TRANSPORTATION RENDERED PURSUANT TO RATE SCHEDULE FT AND PART 284 OF THE REGULATIONS OF THE FERC

Monthly Reservation Rate per dt

							Emergency Service	Rate (5)
	Receipt & Delivery Zone	Fixed Cost Unit Rate	Variable Cost Unit Rate	Electric Power Unit Rate	Maximum Rate (1)	Minimum Rate (2)(3)	Maximum Rate (4)	Minimum Rate (2)(3)
		(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
	1-1	1.7583	0.0000	0.0028	1.7611	0.0028	-	-
	1-2, 2-1	2.5553	0.0000	0.0060	2.5613	0.0060	-	-
	1-3, 3-1	3.7689	0.0000	0.0106	3.7795	0.0106	-	-
	1-4, 4-1	7.8490	0.0000	0.0267	7.8757	0.0267	8.2018	0.0267
	1-5, 5-1	10.7984	0.0000	0.0382	10.8366	0.0382	11.1627	0.0382
	1-6, 6-1	12.5840	0.0000	0.0445	12.6285	0.0445	12.9546	0.0445
	2-2	1.9106	0.0000	0.0032	1.9138	0.0032	-	-
	2-3, 3-2	3.1242	0.0000	0.0078	3.1320	0.0078	-	-
	2-4, 4-2	7.2043	0.0000	0.0239	7.2282	0.0239	7.5543	0.0239
	2-5, 5-2	10.1537	0.0000	0.0354	10.1891		10.5152	0.0354
i.e.,	2-6, 6-2	11.9393	0.0000	0.0417	11.9810	0.0417	12.3071	0.0417
	3-3	2.3272	0.0000	0.0046	2.3318	0.0046	_	-
	3-4, 4-3	6.4073	0.0000	0.0207	6.4280	0.0207	6.7541	0.0207
	3-5, 5-3	9.3567	0.0000	0.0322	9.3889	0.0322	9.7150	0.0322
	3-6, 6-3	11.1423	0.0000	0.0385	11.1808	0.0385	11.5069	0.0385
	4 – 4	5.1937	0.0000	0.0161	5.2098	0.0161	5.5359	0.0161
	4-5, 5-4	8.1431	0.0000	0.0276	8.1707	0.0276	8.4968	0.0276
	4-6, 6-4	9.9287	0.0000	0.0339	9.9626	0.0339	10.2887	0.0339
	4A-4A	2.1389	0.0000	0.0043	2.1432	0.0043	-	-
	4B-4B	1.7472	0.0000	0.0027	1.7499	0.0027	-	-
	4B-4A,4A-4B	2.7725	0.0000	0.0070	2.7795	0.0070	-	-
	5-5	4.0630	0.0000	0.0115	4.0745	0.0115	-	-
	5-6, 6-5	5.8486	0.0000	0.0178	5.8664	0.0178	-	-
	6-6	2.8992	0.0000	0.0063	2.9055	0.0063	-	-

Gathering Charges

In addition to the charges above, the gathering rates on Sheet No. 33 shall apply to quantities transported through gathering facilities.

Notes: (1) The Fixed and Variable Cost unit rates plus the Electric Power unit rate. (2) The Variable Cost unit rate plus the Electric Power unit rate.

- (3) The minimum reservation rate applicable to capacity release transactions that are not permanent releases shall not be less than zero.
- The unit rates in Note 1 plus the Emergency Eminence Service Rate of \$0.3261. (4)
- (5) Pursuant to Section 6.1 of Rate Schedule FT, these rates apply to contracts that have TCQ entitlements at the interconnection between Transco's mainline and the Eminence storage facility.

Issued by: Frank J. Ferazzi, Vice President Issued on: March 1, 2006 Effective on: April 1, 2006

🖉 uniongas

Effective 2007-01-01 **Rate M12** Page 1 of 6

STORAGE AND TRANSPORTATION RATES

(A) Applicability

The charges under this schedule shall be applicable to a Shipper who enters into a Storage or Transportation Service Contract with Union.

(B) Services

Storage service under this rate schedule shall be for Enbridge Gas Distribution Inc only, contracts LST045 expiring March 31, 2008, LST046 expiring March 31, 2009, and LST047 expiring March 31, 2010.

Transportation Service under this rate schedule shall be for transportation on Union's Dawn - Oakville facilities.

(C) Rates

. ...

The identified rates represent maximum prices for service. These rates may change periodically. Multi-year prices may also be negotiated, which may be higher than the identified rates.

	Monthly Demand Charge (applied to daily	Commodity and Fuel	Changes
Storage (1)	contract demand) <u>Rate/GJ</u>	Fuel Ratio <u>% AND</u>	Commodity Charge <u>Rate/GJ</u>
Space – Shipper Providing Deliverability (2)	\$0.010		
Deliverability - Firm	\$1.050		
Injection Withdrawal		0.600% 0.600%	\$0.006 \$0.006
Firm Transportation (3)			
Dawn to Oakville/Parkway Dawn to Kirkwall Parkway to Dawn	\$2.392 \$2.036 n/a	Monthly fuel rates and ratios shall be in accordance with schedule "C".	
Limited Firm/Interruptible Transportation (3) Dawn to Parkway – Maximum Dawn to Kirkwali - Maximum	\$5.741 \$5.741	Monthly fuel rates and ratios shall be in accordance with schedule "C".	
Parkway (TCPL) to Parkway (Cons) (4)		0.329%	
Dehydration (5)			
Tecumseh Dehydration	\$0.036		\$0.003

... Vector Pipeline L.P. FERC Gas Tariff Original Volume No. 1

Sixth Revised Sheet No. 20 Superseding Fifth Revised Sheet No. 20

STATEMENT OF RATES AND CHARGES

All rates are stated in U.S. \$

Rate Schedule FT-1 1/

Recourse Rates:	Zone	1 2/	Zone	2 2/
	Maximum	Minimum	Maximum	Minimum
Reservation Charge (\$ per Dth per month)	\$1.4570	0.0000	\$9.9523	0.0000
Usage Charge (\$ per Dth)	0.0000	0.0000	0.0000	0.0000
ACA Charge	0.0016	0.0016	0.0016	0.0016
Usage and ACA Charge	0.0016	0.0016	0.0016	0.0016

Negotiated Rates:

The effective maximum negotiated charge for any negotiated rate transportation agreement is the charge agreed to by the parties, as set forth in the attached Tariff sheets.

Rate Schedule FT-L 1/

Recourse Rates:

	Zone 1	12/	Zone 2	2/
	Maximum	Minimum	Maximum	Minimum
Reservation Charge (\$ per Dth per month)	\$0.9780	0.0000	\$6.6803	0.0000
Usage Charge (\$ per Dth) ACA Charge Usage and ACA Charge	0.0157 0.0016 0.0173	0.0000 0.0016 0.0016	0.1076 0.0016 0.1092	0.0000 0.0016 0.0016

Negotiated Rates:

The effective maximum negotiated charge for any negotiated rate transportation agreement is the charge agreed to by the parties, as set forth in the attached Tariff sheets. Issued by: Craig Fishbeck, President Effective on: October 1, 2006

Previous Next Search

....

.

CGA/REFUND INTEREST CALCULATION FOR SUMMER May 1, 2007 TO October 31, 2007 NORTHERN UTILITIES,INC NEW HAMPSHIRE DIVISION

	Beg of <u>Balan</u>	of Mo. <u>lance</u>	(Ove Coll	(Over)Under <u>Collection</u>	E	End of Mo. <u>Balance</u>	Average Balance	5 3	Interest <u>Rate</u>		Annual Interest <u>Amount</u>	~ ^ ≯	Monthly Balance W/ Interest
Dec-06	Ś	(104)	\$		\$	(611,704)	(611,704)	704)	8.25%	\$	(4.205)	\$	(615.909)
Jan-07		(615,909)	∽	'	\$	(615,909)	(615,909)) (606	8.25%	\$	(4,234)	\$	(620, 143)
Feb-07	∽	,143)	\$	ı	∽	(620,143)	(620,143)	143)	8.25%	∽	(4, 263)	∽	(624, 406)
Mar-07	∽	,406)	∽	ı	ŝ	(624,406)	624,406)	406)	8.25%	∽	(4, 293)	⇔	(628, 699)
Apr-07	∽	(669,	↔	'	ŝ	(628,699)	(628,699)	(669	8.25%	∽	(4, 322)	∽	(633,021)
May-07	∽	,021)	∽	76,529	⇔	(556,492)	\$ (594,757)	757)	8.25%	∽	(4,089)	∽	(560, 581)
Jun-07	∽	,581)	∽	(30,621)	ŝ	(591,202)	\$ (575,892)	892)	8.25%	∽	(3,959)	⇔	(595, 161)
Jul-07	∽	,161)	Ś	(30, 259)	ŝ	(625,420)	(610,291)	291)	8.25%	ŝ	(4, 196)	\$	(629,616)
Aug-07	∽	,616)	⇔	(19, 633)	\$	(649,250)	(639,433)	433)	8.25%	∽	(4, 396)	∽	(653, 646)
Sep-07	∽	,646)	∽	56,756	⇔	(596,890)	(625,268)	268)	8.25%	∽	(4, 299)	∽	(601, 189)
Oct-07	∽	,189)	∽	397,593	\$	(203,596)	(402,392)	392)	8.25%	$\boldsymbol{\boldsymbol{\varsigma}}$	(2,766)	↔	(206, 362)
Nov-07	∽	,362)			⇔	(206,362)	3 (206,362)	362)	8.25%	↔	(1,419)	↔	(207,781)
			∽	450,364						Ś	(25,124)		
												\$	(207,781)
											Hedging	∽	126,764
											WC	∽	15,449
											BD	∽	36,731
											Misc OH	€	28,837
											1	ŧ	101

NH07 def_interes

0

Ω

NH_Variance_Summer

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION

Variance Analysis of Components of Proposed CGA vs. Actual Costs 2006-2007

	Ma	y, 2007 thr	ough October, 2	007	,	1	Ма	y, 2006 thro	ugh October	, 20	006	Dif	ference
	Co	etc	Therm	Ra	te Effect		Cos	sts	Therm	Ra	te Effect	2	
	00	313	Sales		CGA		00.		Sales		CGA	Ra	te
DEMAND						DEMAND							
Product Demand	\$	52,365		\$	0.0047	Product Demand	\$	31,261		\$	0.0032	\$	0.0015
Pipeline - Reservation	\$	532,099		\$	0.0482	Pipeline - Reservation	\$	1,498,771		\$	0.1548	\$	(0.1065)
Storage Demand	\$	505,754		\$	0.0459	Storage Demand	\$	-		\$	-	\$	0.0459
Capacity Release	\$	-		\$	-	Capacity Release	\$	-		\$	-	\$	-
						Capacity Exchange w/ME	\$	5,946		\$	0.0006	\$	(0.0006)
Total Demand Effect	\$	1,090,218	11,029,620	\$	0.0988	Total Demand Effect	9	1,535,978	9,683,267	\$	0.1586	\$	(0.0598)
COMMODITY						COMMODITY							
Granite State	\$	4,257,406		\$	0.3860	Granite State	\$	-		\$	-	\$	0.3860
Canadian	\$	-		\$	•	Canadian	\$	-		\$	-	\$	-
Domestic	\$	4,839,719		\$	0.4388	Domestic	\$	-		\$	-	\$	0.4388
Hedging Gain/Loss	\$	126,764		\$	0.0115	Hedging Gain/Loss	\$	731,909		\$	0.0756	\$	(0.0641)
LPG/LNG/Peaking/Other	\$	41,955		\$	0.0038	LPG/LNG/Peaking/Other	\$	2,080		\$	0.0002	\$	0.0036
Distrigas Vapor/Spot	\$	-		\$	•	Distrigas Vapor/Spot	\$	-		\$	-	\$	•
Storage Supplies	\$	-		\$	-	Storage Supplies	\$	-		\$	-	\$	•
Peaking Supplies	\$	-		\$	•	Peaking Supplies	\$	-		\$	-	\$	-
						Miscellaneous	\$	6,559,900		\$	0.6774	\$	(0.6774)
Total Commodity Effect	\$	9,265,844	11,029,620	\$	0.8401	Total Pipeline Commodity Effect	\$	7,293,889	9,683,267	\$	0.7532	\$	0.0868
TOTAL WINTER GAS COSTS	\$	10,356,062	11,029,620	\$	0.9389	TOTAL WINTER GAS COSTS	5	8,829,867	9,683,267	\$	0.9119	\$	0.0271
Under/Over Collection	\$	(633,021))	\$	(0.0574)	Under/Over Collection	\$	(407,054)		\$	(0.0420)	\$	(0.0154)
Refunds	\$	•		\$	-	Refunds	\$	-		\$	-	\$	•
interest	\$	(25,124))	\$	(0.0023)	Interest	\$	(12,088)		\$	(0.0012)	\$	(0.0010)
Miscellaneous Overhead-Allocate	\$	28,837		\$	0.0026	Miscellaneous Overhead-Allocate	\$	28,428		\$	0.0029	\$	(0.0003)
Working Capital Allowance	\$	15,449		\$	0.0014	Working Capital Allowance	\$	17,007		\$	0.0018	\$	(0.0004)
Bad Debt Allowance	\$	36,731		\$	0.0033	Bad Debt Allowance	\$	40,357		\$	0.0042	\$	(0.0008)
Production and Storage Capacity	\$	-		\$	-	Production and Storage Capacity	\$			\$	-	\$	-
Summer Costs Deferred to Winte	\$	-		\$	-	Summer Costs Deferred to Winte	\$			\$	-	\$	-
Interruptible Profits	\$			\$	-	Miscellaneous	\$	-		\$	-	\$	-
TOTAL	\$	9,778,934	11,029,620	\$	0.8866	TOTAL	:	\$8,496,517	9,683,267	\$	0.8774	\$	0.0092

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION FORECASTED MAY 2007 vs. 2006 SUMMER PERIOD

Shows the effect of the Unit Cost of Gas & LDAC Rate Change New Hamoshire Division - Typical Residential Heating Bill

.

New Hampshire Division - Typical Residential Heating Bill	al Resider	ntial Heatin	ng Bill												
12 MOS ENDED 10/2006	November	December	January	February	March	April	Winter Nov-Apr	Mav	June	July	August	September	October	Summer May-Oct	Total Nov-Oct
						1		1		1					
Typical Usage:	109	150	187	188	166	132	932	60	55	30	30	42	71	318	1,250
Residentail Heating Winter:															
Cust. Chg \$ 9.50 First 50 therms @ \$ 0.4102 Evces 50 therms @ \$ 0.2000	\$9.50 \$20.51 \$17 64	\$9.50 \$20.51 \$20 on	\$9.50 \$20.51 \$40 96	\$9.50 \$20.51 \$41.26	\$9.50 \$20.51 \$34.68	\$9.50 \$20.51 \$24.52	\$57.00 \$123.06 \$188.06								
		46.024			0	10.1.14									
**								\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$57.00	\$114.00
First 50 therms @ \$ 0.4102 Exces 50 therms @ \$ 0.2990								\$20.51 \$11.96	\$20.51 \$1.50	\$12.31 \$0.00	\$12.31 \$0.00	\$17.23 \$0.00	\$20.51 \$6.28	\$103.38 \$19.74	\$226.44 \$208.70
Total Base Rate Amount	\$47.65	\$59.91	\$70.97	\$71.27	\$64.69	\$54.53	\$369.02	\$41.97	\$31.51	\$21.81	\$21.81	\$26.73	\$36.29	\$180.12	\$549.14
CGA Rates - (Seasonal) LDAC	\$1.2831 \$0.0282	\$1.2831 \$0.0282	\$1.2831 \$0.0282	\$1.0907 \$0.0282	\$1.0907 \$0.0282	\$1.0907 \$0.0282		\$1.0104 \$0.0282	\$0.8809 \$0.0282	\$0.8809 \$0.0282	\$0.8809 \$0.0282	\$0.9538 \$0.0282	\$1.1493 \$0.0282		
Total CGA and LDAC Amount	\$142.93	\$196.70	\$245.21	\$210.35	\$185.74	\$147.69	\$1,128.62	\$93.47	\$50.00	\$27.27	\$27.27	\$41.24	\$83.60	\$322.85	\$1,451.47
Total Bit	\$190.58	\$256.61	\$316.18	\$281.62	\$250.43	\$202.22	\$1,497.64	\$135.44	\$81.51	\$49.08	\$49.08	\$67.97	\$119.89	\$502.97	\$2,000.61
							Winter							Summer	Total
12 MOS ENDED 10/2007	November	November December	January	February	March	April	Nov-Apr	Мау	June	VIN	August	<u>September</u>	October	May-Oct	Nov-Oct
Typical Usage: Residentail Heating	109	150	187	188	166	132	932	06	55	30	30	42	11	318	1,250
Winter: Cust. Chg \$ 9.50 First 50 thems @ \$ 0.4102 Excess 50 thems @ \$ 0.2990	\$ 9.50 \$20.51 \$17.64	\$ 9.50 \$20.51 \$29.90	\$ 9.50 \$20.51 \$40.96	\$ 9.50 \$20.51 \$41.26	\$ 9.50 \$20.51 \$34.68	\$ 9.50 \$20.51 \$24.52	\$57.00 \$123.06 \$188.96								
Summer: Cust. Chg 5 9.50 First 50 therms (0 \$ 0.4102 Exces 50 therms (0 \$ 0.2990								\$9.50 \$20.51 \$11.96	\$9.50 \$20.51 \$1.50	\$9.50 \$12.31 \$0.00	\$9.50 \$12.31 \$0.00	\$9.50 \$17.23 \$0.00	\$9.50 \$20.51 \$6.28	\$57.00 \$103.38 \$19.74	\$114.00 \$226.44 \$208.70
Total Base Rate Amount	\$47.65	\$59.91	\$70.97	\$71.27	\$64.69	\$54.53	\$369.02	\$41.97	\$31.51	\$21.81	\$21.81	\$26.73	\$36.29	\$180.12	\$549.14
CGA Rates - (Seasonal) LDAC	\$1.2984 \$0.0261	\$1.3259 \$0.0261	\$1.1629 \$0.0261	\$1.2859 \$0.0261	\$1.5581 \$0.0261	\$1.5581 \$0.0261		\$0.8805 \$0.0261	\$0.8805 \$0.0261	\$0.8805 \$0.0261	\$0.8805 \$0.0261	\$0.8805 \$0.0261	\$0.8805 \$0.0261		
Total CGA and LDAC Amount	\$144.37	\$202.80	\$222.34	\$246.66	\$262.98	\$209.11	\$1,288.26	\$81.59	\$49.86	\$27.20	\$27.20	\$38.08	\$64.37	\$288.30	\$1,576.56
Total Bill	\$192.02	\$262.71	\$293.31	\$317.93	\$327.67	\$263.64	\$1,657.28	\$123.56	\$81.37	\$49.01	\$49.01	\$64.81	\$100.66	\$468.42	\$2,125.70
DIFFERENCE Total Bitt	\$1.44	\$ 6.10	(\$22.87)	\$36.31	\$77.24	\$61.42	\$159.64	(\$11.88)	(\$0.14)	(\$0.07)	(\$0.07)	(\$3.16)	(\$19.23)	(\$34.55)	\$125.09
% Change							10.66%							-6.87%	6.25%

117

NORTHERN UTILITIES, INC. NEW HAMPSHIRE DIVISION Forecasted May 2007 vs. 2006 Summer Period

....

.....

<u>Residential Heating</u> Weighted Average Sumr	ed Ave	Sur	Summer 2007								
Customer Charge		\$9.50	\$9.50								
First 50 Therms Excess 50 Therms		\$0.4102 \$0.2990	\$0.4102 \$0.2990								
LDAC CGA Total Adjustment		\$0.0282 \$ <u>0.8774</u> \$0.9056	\$0.0261 <u>\$0.8805</u> \$0.9066								
	0	Summer 2006 CGA @ #0.0005	Summer 2007 CGA @	\$ Impact	8	Base Rate \$ Impact % Impact	pact	CĠA \$ Impact % Impact	act	LDAC \$ Impact %	VC % Impact
		0008.04	\$0.90p	00.04	%0				Τ		_
	5	\$16.08	\$16.08	\$0.00	%0	(\$0.00)	%0	\$0.02	%0	(\$0.01)	%0
	10	\$22.66	\$22.68	\$0.02	%0	\$0.01	%0	\$0.03	%0	(\$0.02)	%0
	20	\$35.82	\$35.84	\$0.02	%0	\$0.00	%0	\$0.06	%0	(\$0.04)	%0
	30	\$48.98	\$49.00	\$0.02	%0	(\$0.01)	%0	\$0.09	%0	(\$0.06)	%0
	45	\$68.71	\$68.76	\$0.05	%0	\$0.01	%0	\$0.14	%0	(\$0.09)	%0
	50	\$75.29	\$75.34	\$0.05	%0	\$0.00	%0	\$0.15	%0	(\$0.11)	%0
	75	\$105.41	\$105.48	\$0.07	%0	(\$0.00)	%0	\$0.23	%0	(\$0.16)	%0
-	125	\$165.64	\$165.76	\$0.12	%0	\$0.00	%0	\$0.38	%0	(\$0.26)	%0
-	150	\$195.76	\$195.90	\$0.14	%0	(\$0.00)	%0	\$0.46	%0	(\$0.32)	%0

%0

(\$0.42)

%0

\$0.61

%0

(\$0.00)

%0

\$0.19

\$256.18

\$255.99

NISOURCE WINTER PRICE MODEL As of January 29, 2007

The following incorporates the natural gas market for the winter months (May & Oct – Apr) as specified on a rolling basis. The data is broken down into two time periods and adjusted into today's dollar using the Producer Price Index as published by the U.S. Department of Labor.

The two time periods are as follows: Rolling Long Term / 4 Year -

> March 2003 through April 2003 May 2003 & October 2003 through April 2004 May 2004 & October 2004 through April 2005 May 2005 & October 2005 through April 2006 May 2006 & October 2006, Nov 2006 – Feb 2007

Short Term / 1 Year -

March 2006 through April 2006 May 2006 & October 2006 through Feb 2007

Adjuste	3 rd Qu 2 nd Qu	adrant adrant	7.2 6.4)2 - 14.4 22 - 8.02 41 - 7.22 22 - 6.41	2
ava ^t ing i					
					1
	N	Mean ledian		7.63 7.22	

The opinions expressed herein are those of RMI and do not reflect the opinion of any other individual or organization. Any statement of fact herein contained are derived from sources believed to be reliable but are not guaranteed as to accuracy nor do they purport to be complete. Nor responsibility is assumed with respect to any such statement nor with respect to any expression of opinion herein contained.



Northern Utilities Inc.

ofit and	Loss Statement						Account #966 - 44168		ACB	\$3,522,957.9
in-07					Current				TE	\$2,604,727.9
									LV	\$2,604,727.9
	Prv	Hedge	Trade		Entry	Exit				
Date	Trans	No.	Ticket_	Contracts	Price	Price				
									ME	NH
/-Re	ach profit and loss total for all	trades closed v	with this m	onth's activit	ty			Profit and Loss	Profit and Loss	Profit and Loss
	Sell									
01/29/07				-3	\$6.860	\$7.330		(\$14,100.00)	(\$7,050.00)	(\$7,050.0
01/29/07	b Sell Feb 7 Futures			-3	\$6.880	\$7.330		(\$13,500.00)	(\$6,750.00)	(\$6,750.0
01/29/07				-7	\$6.910	\$7.330		(\$29,400.00)	(\$14,700.00)	(\$14,700.0
01/29/07	d Sell Feb 7 Futures			-3	\$6.920	\$7.330		(\$12,300.00)	(\$6,150.00)	
						\$0.000		\$0.00	\$0.00	\$0.
01/03/07	Bot May 7 Futures			5	\$6.625	\$0.000		\$0.00	\$0.00	\$0.
01/29/07	Bot May 7 Futures			1	\$7.375	\$0.000		\$0.00	\$0.00	\$0.
01/29/07	Bot Oct 7 Futures			2	\$7.820	\$0.000		\$0.00	\$0.00	\$0.
01/29/07	Bot Nov 7 Futures			1	\$8.330	\$0.000		\$0.00	\$0.00	\$0.
01/29/07	Bot Dec 7 Futures			2	\$8.860	\$0.000		\$0.00	\$0.00	\$0.
01/29/07	Bot Jan 8 Futures			1	\$9.130	\$0.000		\$0.00	\$0.00	\$0.
01/29/07	Bot Feb 8 Futures			2	\$9.125	\$0.000		\$0.00	\$0.00	\$0.
01/29/07	Bot Mar 8 Futures			1	\$8.900	\$0.000		\$0.00	\$0.00	\$0.
01/29/07	Bot Apr 8 Futures			3	\$7.610	\$0.000		\$0.00	\$0.00	\$0.
						\$0.000		\$0.00	\$0.00	\$0.
						\$0.000		\$0.00	\$0.00	\$0.
d of Month						\$0.000		\$0.00	\$0.00	\$0.
09/28/05	e Bot Feb7 Futures	05-01	05-09-41	1	\$11.550	\$7.330		(\$42,200.00)	(\$21,100.00)	(\$21,100.
10/27/05	f Bot Feb7 Futures	05-01	05-10-32	1	\$11.700	\$7.330		(\$43,700.00)	(\$21,850.00)	(\$21,850.
11/28/05	g Bot Feb7 Futures	05-01	05-11-45	1	\$11.510	\$7.330		(\$41,800.00)	(\$20,900.00)	(\$20,900.
12/28/05	h Bot Feb7 Futures	05-01	05-12-19	1	\$11.490	\$7.330		(\$41,600.00)	(\$20,800.00)	(\$20,800.
01/27/06	i Bot Feb7 Futures	06-01	06-01-12	2	\$11.720	\$7.330		(\$87,800.00)	(\$43,900.00)	(\$43,900
02/24/06	j Bot Feb7 Futures	06-01	06-02-7	1	\$10.800	\$7.330		(\$34,700.00)	(\$17,350.00)	
03/29/06	k Bot Feb7 Futures			1	\$11.010	\$7.330		(\$36,800.00)	(\$18,400.00)	
04/26/06				2	\$11.950	\$7.330		(\$92,400.00)	(\$46,200.00)	
05/26/06	m Bot Feb7 Futures			1	\$10,100	\$7.330		(\$27,700.00)	(\$13,850.00)	
06/28/06				2	\$10.460	\$7.330		(\$62,600.00)	(\$31,300.00)	
07/27/06				2	\$10.880	\$7.330		(\$71,000.00)	(\$35,500.00)	
08/29/06					\$10.850	\$7.330		(\$35,200.00)	(\$17,600.00)	

	Net P&L					(\$686,800.00)	(\$343,400.00)	(\$343,400.00)
CTION	COSTS-New activity							
	Transaction Cost-Futures	34	\$13.37		(\$454.58)	(\$454.58)	(\$454.58)	(\$454.58)
	Transaction Cost-Futures Globex	0	\$11.47		\$0.00	\$0.00	\$0.00	\$0.00
	Transaction Cost-Enter Options Transaction Cost-Exit Options	0	\$23.37 \$3.37		\$0.00 \$0.00		\$0.00 \$0.00	\$0.00
	Transaction Cost-Assnd/Exer	0	\$11.37		\$0.00		\$0.00	\$0.00 \$0.00
	Total New Transaction Costs				(\$454.58)		(\$454.58)	(\$454.58)
MARGIN CASH	BALANCE				Subtotal	Total		
01/02/07	Beginning Balance-carried forward from las	st month				\$4,205,482.93	\$2,102,741.47	\$2,102,741.47
	Interest Credit (for Dec06)				\$4,729.64		\$2,364.82	\$2,364.82
	Deposit to Margin Account				\$0.00		\$0.00	\$0.00
	Option Premiums of new activity and closed o	pen option positions		\$0.00				
	Monthly Option Premium			\$0.00	\$0.00		\$0.00	\$0.00
01/31/07	Monthly Net P&L				(\$686,800.00)		(\$343,400.00)	(\$343,400.00)
01/31/07 01/31/07								
	Monthly Net P&L				(\$686,800.00)	(\$682,524.94)	(\$343,400.00)	(\$343,400.00)

		Hedge	Trade		Entry	1/31/2007		ME	ME	NH
		No.	Ticket	QTY	Price	Price	Profit and Loss	%	Profit and Loss	Profit and Loss
09/28/05	Bot Mar7 Futures	05-01	05-09-41	1	\$11.280	\$7.667	(\$36,130.00)		(\$18,065.00)	(\$18,065.00)
10/27/05	Bot Mar7 Futures	05-01	05-10-32	1	\$11,400	\$7.667	(\$37,330.00)		(\$18,665.00)	(\$18,665.00)
11/28/05	Bot Mar7 Futures	05-01	05-11-45	1	\$11,205	\$7.667	(\$35,380.00)		(\$17,690.00)	(\$17,690.00)
12/28/05	Bot Mar7 Futures	05-01	05-12-19	1	\$11.250	\$7.667	(\$35,830.00)		(\$17,915.00)	(\$17,915.00)
01/27/06	Bot Mar7 Futures	06-01	06-01-12	1	\$11.570	\$7.667	(\$39.030.00)		(\$19,515.00)	(\$19,515.00)
02/24/06	Bot Mar7 Futures	06-01	06-02-7	1	\$10.600	\$7.667	(\$29,330.00)		(\$14,665.00)	(\$14,665.00)
03/29/06	Bot Mar7 Futures			1	\$10.810	\$7.667	(\$31,430.00)		(\$15,715.00)	(\$15,715.00)
04/26/06	Bot Mar7 Futures			1	\$11.750	\$7.667	(\$40,830.00)		(520,415.00)	(\$20,415.00)
<u>.95/26/06</u>	Bot Mar7 Futures			2	\$9.950	\$7.667	(\$45,660.00)		(\$22,830.00)	(\$22,830.00)
3/06	Bot Mar7 Futures			1	\$10.280	\$7.667	(\$26,130.00)		(\$13,065.00)	(\$13,065.00)
1/06	Bot Mar7 Futures			1	\$10.660	\$7.667	(\$29,930.00)		(\$14,965.00)	(\$14,965.00)
∠9/06	Bot Mar7 Futures			1	\$10.650	\$7.667	(\$29,830.00)		(\$14,915.00)	(\$14,915.00)
09/28/05	Bot Apr7 Futures	05-01	05-09-41	3	\$9.330	\$7.655	(\$50,250.00)		(\$25,125.00)	(\$25,125.00)
10/27/05	Bot Apr7 Futures	05-01	05-10-32	3	\$9.150	\$7.655	(\$44,850.00)		(\$22,425.00)	(\$22,425.00)
11/28/05	Bot Apr7 Futures	05-01	05-11-45	2	\$8.995	\$7.655	(\$26,800.00)		(\$13,400.00)	(\$13,400.00)
12/28/05	Bot Apr7 Futures	05-01	05-12-19	2	\$9.310	\$7.655	(\$33,100.00)		(\$16,550.00)	(\$16,550.00)
01/27/06	Bot Apr7 Futures	05-01	06-01-12	3	\$9.700	\$7.655	(\$61,350.00)		(\$30,675.00)	(\$30,675.00)
02/24/06	Bot Apr7 Futures	06-01	06-02-7	3	\$8.780	\$7.655	(\$33,750.00)		(\$16,875.00)	(\$16,875.00)
03/29/06	Bot Apr7 Futures			3	\$9.200	\$7.655	(\$46,350.00)		(\$23,175.00)	(\$23,175.00)
04/26/06	Bot Apr7 Futures			2	\$9.770	\$7.655	(\$42,300.00)		(\$21,150.00)	(\$21,150.00) 21
05/26/06	Bot Apr7 Futures			2	\$8.350	\$7.655	(\$13,900.00)		(\$6,950.00)	(\$6,950.00)
06/09/06	Bot Apr7 Futures			6	\$8.100	\$7.655	(\$26,700.00)		(\$13,350.00)	(\$13,350.00)

06/28/06	Bot Apr7 Futures		2	\$8.380	\$7.655	(\$14,500.00)		(\$7,250.00)	(\$7,250.00)	
07/27/06	Bot Apr7 Futures		2 2	\$8.620	\$7.655	(\$19,300.00) (\$16,900.00)		(\$9,650.00) (\$8,450.00)	(\$9,650.00)	
08/29/06 03/29/06	Bot Apr7 Futures Bot May7 Futures		1	\$8.500 \$8.980	\$7.655 \$7.405	(\$15,750.00)		43.03% (\$6,777.23)	(\$8.450.00) (\$8.972.78)	
04/26/06	Bot May7 Futures		1	\$9.580	\$7.405	(\$21,750.00)		43.03% (\$9,359.03)	(\$12,390.98)	
05/26/06 06/09/06	Bot May7 Futures Bot May7 Futures		1 5	\$8.200 \$7.930	\$7.405 \$7.405	(\$7,950.00) (\$26,250.00)		43.03% (\$3,420.89) 43.03% (\$11,295.38)	(\$4,529.11) (\$14,954.63)	
06/28/06	Bot May7 Futures		1	\$8.190	\$7.405	(\$7,850.00)		43.03% (\$3,377.86)	(\$4,472.15)	
07/27/06	Bot May7 Futures		2	\$8.470	\$7.405	(\$21,300.00)		43.03% (\$9,165.39)	(\$12,134.61)	
'29/06 '7/06	Bot May7 Futures Bot May7 Futures		2 2	\$8.400 \$7.110	\$7.405 \$7.405	(\$19,900.00) \$5,900.00		43.03% (\$8,562.97) 43.03% \$2,538.77	(\$11,337.03) \$3,361.23	
27/06	Bot May7 Futures		1	\$7.710	\$7.405	(\$3,050.00)		43.03% (\$1,312.42)	(\$1,737.59)	
1/28/06	Bot May7 Futures		2	\$8.070	\$7.405	(\$13,300.00)		43.03% (\$5,722.99)	(\$7,577.01)	
12/27/06 01/03/07	Bot May 7 Futures Bot May 7 Futures		2 5	\$6.490 \$6.625	\$7.405 \$7.405	\$18,300.00 \$39,000.00		43.03% \$7,874.49 43.03% \$16,781.70	\$10,425.51 \$22,218.30	
01/29/07	Bot May 7 Futures		1	\$7.375	\$7.405	\$300.00		43.03% \$129.09	\$170.91	
03/29/06	Bot Oct7 Futures		2	\$9.270	\$7.860	(\$28,200.00)		42.54% (\$11,996.28)	(\$16,203.72)	
04/26/06 05/26/06	Bot Oct7 Futures Bot Oct7 Futures		2 1	\$9.960 \$8.900	\$7.860 \$7.860	(\$42,000.00) (\$10,400.00)		42.54% (\$17,866.80) 42.54% (\$4,424.16)	(\$24,133.20) (\$5,975.84)	
06/28/06	Bot Oct7 Futures		2	\$8.767	\$7.860	(\$18,140.00)		42.54% (\$7,716.76)	(\$10,423.24)	
07/27/06	Bot Oct7 Futures		2	\$9.000	\$7.860	(\$22,800.00)		42.54% (\$9,699.12)	(\$13,100.88)	
08/29/06 09/14/06	Bot Oct7 Futures Bot Oct7 Futures		2	\$8.980 \$8.030	\$7.860 \$7.860	(\$22,400.00) (\$11,900.00)		42.54% (\$9,528.96) 42.54% (\$5,062.26)	(\$12,871.04) (\$6,837.74)	
09/27/06	Bot Oct7 Futures		2	\$7.520	\$7.860	\$6,800.00		42.54% (\$3,002.20)	\$3,907.28	
10/27/06	Bot Oct7 Futures		2	\$8.070	\$7.860	(\$4,200.00)		42.54% (\$1,786.68)	(\$2,413.32)	
11/28/06 12/27/06	Bot Oct 7 Futures Bot Oct 7 Futures		2 2	\$8.430 \$7.050	\$7.860 \$7.860	(\$11,400.00) \$16,200.00		42.54% (\$4,849.56) 42.54% \$6,891.48	(\$6,550.44) \$9,308.52	
01/29/07	Bot Oct 7 Futures		2	\$7.820	\$7.860	\$800.00		42.54% \$340.32	\$459.68	(\$126,763.86)
09/25/06	Bot Nov7 Futures		3	\$7.960	\$8.566	\$18,180.00		\$9,090.00	\$9,090.00	,
09/27/06 10/27/06	Bot Nov7 Futures Bot Nov7 Futures		1	\$8.060 \$8.470	\$8.566 \$8.566	\$5,060.00 \$960.00		\$2,530.00 \$480.00	\$2,530.00 \$480.00	
11/28/06	Bot Nov7 Futures		1	\$8.877	\$8.566	(\$3,110.00)		(\$1,555.00)	(\$1,555.00)	
12/27/06	Bot Nov 7 Futures		1	\$7.730	\$8.566	\$8,360.00		\$4,180.00	\$4,180.00	
01/29/07 09/25/06	Bot Nov 7 Futures Bot Dec7 Futures		1 4	\$8.330 \$8.410	\$8.566 \$9.016	\$2,360.00 \$24,240.00		\$1,180.00 \$12,120.00	\$1,180.00 \$12,120.00	
09/27/06	Bot Dec7 Futures		2	\$8.575	\$9.016	\$8,820.00		\$4,410.00	\$4,410.00	
10/27/06	Bot Dec7 Futures		2	\$8.940	\$9.016	\$1,520.00		\$760.00	\$760.00	
11/28/06 12/27/06	Bot Dec7 Futures Bot Dec 7 Futures		2 2	\$9.317 \$8.325	\$9.016 \$9.016	(\$6,020.00) \$13,820.00		(\$3,010.00) \$6,910.00	(\$3,010.00)	
01/29/07	Bot Dec 7 Futures		2	\$8.860	\$9.016	\$3,120.00		\$1,560.00	\$6,910.00 \$1,560.00	
09/27/06	Bot Jan8 Futures		1	\$8.940	\$9.291	\$3,510.00		\$1,755.00	\$1,755.00	
10/27/06 11/28/06	Bot Jan8 Futures Bot Jan8 Futures		2 2	\$9.195 \$9.547	\$9.291 \$9.291	\$1,920.00 (\$5,120.00)		\$960.00	\$960.00	
12/27/06	Bot Jan 8 Futures		2	\$8.620	\$9.291	\$13,420.00		(\$2,560.00) \$6,710.00	(\$2,560.00) \$6,710.00	
01/29/07	Bot Jan 8 Futures		1	\$9.130	\$9.291	\$1,610.00		\$805.00	\$805.00	
09/27/06 10/27/06	Bot Feb8 Futures Bot Feb8 Futures		1	\$8.940 \$9.190	\$9.276 \$9.276	\$3,360.00 \$860.00		\$1,680.00	\$1,680.00	
11/28/06	Bot Feb8 Futures		1	\$9.190	\$9.276	(\$2,660.00)		\$430.00 (\$1,330.00)	\$430.00 (\$1,330.00)	
12/27/06	Bot Feb 8 Futures		1	\$8.630	\$9.276	\$6,460.00		\$3,230.00	\$3,230.00	
01/29/07 09/27/06	Bot Feb 8 Futures Bot Mar8 Futures		2	\$9.125 \$8.705	\$9.276 \$9.046	\$3,020.00 \$3,410.00		\$1,510.00 \$1,705.00	\$1,510.00	
10/27/06	Bot Mar8 Futures		1	\$8.975	\$9.046	\$710.00		\$355.00	\$1,705.00 \$355.00	
11/28/06	Bot Mar8 Futures		1	\$9.327	\$9.046	(\$2,810.00)		(\$1,405.00)	(\$1,405.00)	
12/27/06 77/06	Bot Mar 8 Futures Bot Mar 8 Futures		1 3	\$8.430 \$8.440	\$9.046 \$9.046	\$6,160.00		\$3,080.00	\$3,080.00	
9/07	Bot Mar 8 Futures		1	\$8.900	\$9.046	\$18,180.00 \$1,460.00		\$9,090.00 \$730.00	\$9,090.00 \$730.00	
15/06	Bot Apr8 Futures		6	\$7.250	\$7.596	\$20,760.00		\$10,380.00	\$10,380.00	
09/27/06 10/27/06	Bot Apr8 Futures Bot Apr8 Futures		3 3	\$7.255 \$7.815	\$7.596 \$7.596	\$10,230.00		\$5,115.00	\$5,115.00	
11/28/06	Bot Apr8 Futures		2	\$8.067	\$7.596	(\$6,570.00) (\$9,420.00)		(\$3,285.00) (\$4,710.00)	(\$3,285.00) (\$4,710.00)	
12/27/06	Bot Apr 8 Futures		2	\$7.370	\$7.596	\$4,520.00		\$2,260.00	\$2,260.00	
01/29/07	Bot Apr 8 Futures		3	\$7.610	\$7.596	(\$420.00)		(\$210.00)	(\$210.00)	
01/31/07	Net Futures Open Trade Equity		165				(\$918,230.00)	(\$442,971.14)	(\$475,258.86)	
01/31/07	Total Trade Equity					TE	\$2,604,727.99	\$1,318,507.86	\$1,286,220.13	
OPEN OPTIONS	S POSITIONS-Net Liquidating Value							ME	NH	
		Hedge Trade No. Ticket		Entry	1/31/2007	Deefit and Land	-			
		<u>No. Ticket</u>		Price	Price	Profit and Loss				
01/21/07	Current Online Promium municipal									
01/31/07	Current Option Premium reversal						\$0.00	\$0.00	\$0.00	
	No Open Options					\$0.00				
						\$0.00				
01/31/07	Net Options Liquidating Value		0				\$0.00	\$0.00	\$0.00	
	Previous Option Premium									
			0	\$0.000		\$0.00				
			0	\$0.000		\$0.00				
			U	00.000		30.00				
	Not Deside to Option Deside		0	00.000		\$0.00				
01/31/07	Net Previous Option Premium		U	60.000		50.00	\$0.00	\$0.00	\$0.00	
01/31/07 01/31/07	Net Previous Option Premium Net Liquidating Value		U	00.000		LV	\$0.00 \$2,604,727.9 9	\$0.00 \$1,318,50 7.86	\$0.00 \$1,286,220.13	

Northern Utilities, Inc - New Hampshire Division Comparison of Annual Costs Straight 2-Season / MBA vs. SMBA	May 2007 through April 2008 Forecast
---	--------------------------------------

-=	
-=	
-	
10	
~	1
	J
=	1
5	
5	
T	ł
_	L
-	
~	
-	
œ	
Nev	
in	
ty Costs	
\sim	
-	
د ۲	
-	
-	
-	
git	
<u> </u>	
ᆷ	
×	
0	
-	
-	
-	
Ē	
-	
ñ	
0	ł
۲ ٦	ł
-	ľ
Allocated	
-0	
n	
-	l
-	ł
60	l
1	1
-	1
0	1
VIIoce	1
_	1
-	I
-	I

Allocated Commodity Cos	ty Costs-New Hamps	shire									
	Straig	tht 2-Season / I	MBA			SMBA				Difference	
	Winter	Summer	Total	%	Winter	Summer	Total	%	Winter	Summer	Total
Maine	\$27,574,465	\$6,522,256	\$34,096,721	46.1%	46.1% \$27,574,509	\$6,534,370	\$34,108,879	46.1%	\$44	\$12,114	\$12,158
HN	\$30,730,101	\$9,121,954	\$39,852,055	53.9%	53.9% \$30,730,052	\$9,139,080	\$39,869,132	53.9%	(\$49)	\$17,126	\$17,077
Total	\$58,304,566	\$15,644,210	\$73,948,776		\$58,304,561	\$15,673,450	\$73,978,011		(\$5)	\$29,240	\$29,235

Allocated Demand Costs

	S	Straight 2-Season	uo			SMBA				Difference	
NEW HAMPSHIRE	Winter	Summer	Total		Winter	Summer	Total		Winter	Summer	Total
Direct Costs	\$9,764,044	\$3,615,023	\$3,615,023 \$13,379,067		\$12,288,837	\$1,090,218	\$1,090,218 \$13,379,055		\$2,524,793	\$2,524,793 (\$2,524,805)	(\$12)
Summer Deferred	\$1,942,423	\$1,942,423 (\$1,942,423)	\$0		\$0	\$0	\$0		(\$1,942,423)	(\$1,942,423) \$1,942,423	\$0
Capacity Release		\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0
SUBTOTAL	\$11,706,467	\$11,706,467 \$1,672,600 \$13,379,067	\$13,379,067	50.46%	50.46% \$12,288,837	\$1,090,218	\$1,090,218 \$13,379,055	50.46%	\$582,370	(\$582,382)	(\$12)
Total Northern Allocated Demand Costs	Demand Costs		\$26,514,064				\$26,514,064				
Non-allocated:											
Miscellaneous Overhead	\$95,460	\$28,837	\$124,297		\$95,460	\$28,837	\$124,297	_	\$0	\$0	\$0
Production & Storage	\$686,673	\$0	\$686,673		\$686,673	\$0	\$686,673		\$0	\$0	\$0
Total Non-allocated	\$782,133	\$28,837	\$810,970		\$782,133	\$28,837	\$810,970		\$0	\$0	\$0
Total N.H.	\$12.488.600	\$1,701,437 \$14,190,037	\$14.190.037		\$13.070.970	\$1,119,055 \$14,190,025	\$14,190.025		\$582.370	(\$582.382)	(\$12)

N.H.P.U.C. No. 10 NORTHERN UTILITIES, INC.

Thirty-first Revised Page 38 Superseding Thirtieth Revised Page 38

CALCULATION OF COST OF GAS ADJUSTMENT Period Covered: May 1, 2005 - October 31, 2005 Anticipated Cost of Delivered and Produced Gas

Delivered:	Therms		Rate		Mount
Product: - Commodity		<u> </u>			
GSGT: DEM	1,101,392	\$	0.7170	\$	789,732
GSGT: Supply via Iroquois	6,023,484	\$	0.8137	\$	4,901,512
GSGT: Progas	0	#	DIV/0!	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-
NEGM	1,203,650	\$	0.8617	\$	1,037,209
Canadian	646,654	\$	0.7547	\$	488,045
Domestic	2,201,545	\$	0.8467	\$	1,863,976
LNG Boil-off/Production	48,061	\$	0.8631	\$	41,479
Hedging Gain/Loss	- •			\$	126,764
Product: - Demand					
GSGT: DEM	1,039,884	\$	-	\$	-
GSGT: Shell via Iroquois	6,028,543	\$		\$	-
Boundary	2,167,973	\$		ŝ	-
Canadian	899,686	\$		ŝ	-
Domac	0	ŝ		\$ \$	-
Duke Peaking	0	\$ \$	-	8 8 8 8 8 8 8 8	-
Pipeline Reservation					
Granite State	1,797,282	\$	0.1264	\$	227,158
Texas Gas Transmission	0	\$	0.1204	\$	227,100
Transcontinental Pipe Line	8,659	\$ \$	-	¢	2,510
National Fuel Gas Supply	0,009	¢ ¢	-	¢ v	2,510
CNG Transmission	0	\$	-	Ф Ф	-
Texas Eastern Transmission	31,003	Ψ \$	0.6150	¢	19,067
Iroquois Gas Trans	365,524	\$	0.8974	÷	328,010
Tennessee	694,323	\$ \$	0.0074	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	819,259
Algonquin	165,368	\$ \$	0.6082	¢ ¢	100,585
PNGTS	365.524	9 \$	0.2356	¢ P	86,104
Trans Canada Pipeline	31,003	э \$	0.2300	ዋ	89,905
Trans Ganada Elpeine	51,005	φ	-	Φ	69,903

Total Anticipated Cost of Gas \$ 10,921,318

For Comparative Purposes Only!

11,224,787

N.H.P.U.C. No. 10 NORTHERN UTILITIES, INC.

Thirty-first Revised Page 39 Superseding Thirtieth Page 39

Calculation of Anticipated Indirect Cost of Gas

Working Capital Calculation

Total Anticipated Direct Cost of Gas	\$	10,921,318
Summer Deferred	\$\$	
Total Direct Cost of Gas (including Deferred)	<u>.</u> \$	10,921,318
Total Direct Ges Costs-including Summer Deferred	\$	10,921,318
Working Capital Percentege (NHPUC No. 10 Section 4.06.1)		0.19%
Working Capital	\$	20,751
plus: Working Capital Reconciliation	s	1,070
Totel Working Capital Allowance	\$	21,820
Bad Debt Calculation		
Total Anticipated Direct Cost of Gas	s	10.921.318

plus: Total Working Capitel	\$ 21,820
	\$ 10,943,138
Bed Debt Percentage (NHPUC No. 10 Section 4.06.1)	0.45%
Total Bad Debt Allowance	\$ 49,244
plus: Bad Debt Reconciliation	\$ (63)
Total Bad Debt Allowance	\$ 49,181

Working Capital Allowance		\$ 21,820
Bad Debt Allowance		\$ 49,181
Miscelianeous Overhead (\$124,2	297-\$97,234) Allocated to Summer Season	\$ 28,427
Production and Storage Capacity		\$
Prior Pariod Over Collection		\$ (633,021)
Deferral of Jurisdicational Dama	nd Costs-Summer 2004*	\$ -
interest		\$ (18,580)
	Total Anticipated Indirect Cost of Gas	\$ (552,173)
	Total Anticipated Direct Cost of Gas	\$ 10,921,318
	Total Anticipated Period Cost of Gas	\$ 10,369,145

Total Anticipated Indiract Cost of Gas Rate	\$	(0.0501)
Total Anticipated Direct Cost of Gas-Commodity	\$	0.8385
Total Anticipated Direct Cost of Gas-Demand	5	0.1516
Total Anticipsted Cost of Gas Adjustment	\$	0.9401

Forecested May 2007 - October 2007 Therms

Forecasted Residential Summer S	son Cost of Gas Rate	CO	OGsrCommodity	0.8385	/ therm
Minimum	0.7521	co	GsrDemand	6 0.151 6	/ therm
Maximum	1.1281	CO	Gerindirect	(0.0501)	/therm
		CO)Gar	0.9401	/ therm

<u>Foreçeasted C & I Summer Season </u> Minimum Maximum	s S	<u>Winter Cost of Gas Rate</u> 0.7507 1.1261		COGsI-Commodity COGsI-Demand COGsI-Indirect COGsI-Total	\$ \$ \$ \$	0.8385 / therm 0.1500 / therm (0.0501) / therm 0.9384 / therm
			Low Winter Ratio Correction Factor (CF)	0.9819 1.007		

Konscasted C & I Summer Season High Winter Cost of Ges Rate Minimum \$ 0.7533 Maximum \$ 1.1300

High Winter Ratio Correction Factor (CF) 1.00318 1.0070 \$

\$

\$

\$

COGsh-Commodity

COGsh-Demand

COGsh-Indirect

COGsh-Total

11,029,620

0.8385 / therm 0.1532 / therm

(0.0501) / therm 0.9417 / therm

For Comparative Purposes Only!

January 29, 2007



300 Friberg Parkway Westborough, MA 01581-5039 (508) 836.7000 Fax: (508) 836.7070

Ms. Debra Howland, Esq. Executive Director and Secretary State of New Hampshire Public Utilities Commission 21 S. Fruit St., Suite 10 Concord, NH 03301

Re: Northern Utilities, Inc. – New Hampshire Division, 2006 Summer Period Cost of Gas (COG) Reconciliation

Dear Ms. Howland:

Attached are an original and eight copies of Northern Utilities' 2006 summer period COG reconciliation analysis. The objective of this analysis is to identify the causes of the summer period 2006 over-collection.

Form III, Schedules 1 through 5 of the filing forms, attached, contain the accounting of six months of gas costs and collections associated with the 2006 summer period. The schedules illustrate the Company's over-collection of \$611,704 or 6.9% of recoverable costs. Schedule 1, page 1, provides the summary of the summer period ending balance. Schedule 2 shows the deferred gas cost activity, allowable costs and revenues for the period December 2005 through November 2006, including (\$12,088) in net interest. Schedule 3, page 1, shows the summary of summer period gas cost collections, while Schedule 3, pages 2 through 8, illustrate the gas cost collections for each individual month. Schedule 4 shows the monthly detail of purchase gas costs allocated to the summer period. Schedule 5 presents the sendout by supplier and firm sales and transportation throughput in MMBtus for the summer period.

Attachment A presents the reconciliation of the working capital costs allowable based on direct gas costs. The over-collection of \$2,238 will be reflected on Revised Page 39 of Northern's Tariff No. 10 as an amount to be passed-back through the COG rate.

Attachment B shows the reconciliation of the bad debt expense associated with gas costs, which is allowed as a percent (0.45%) of the period gas costs and working capital allowance on gas costs, pursuant to DG 01-182. The over-collection of \$5,230 will also be reflected on Revised Page 39 of Northern's Tariff No. 10 as an amount to be passed-back through the COG rate.

Attachment C presents the firm sales variance analysis for the 2006 summer period. This schedule shows that weather normalized actual firm sales were 17,504 MMBtu or 1.76% lower than forecast.

Ms. Debra Howland, Esq. Page 2 January 29, 2007

Please do not hesitate to contact me if you have any questions regarding these reconciliation schedules.

Sincerely,

Ronald D. Gibbons Manager, Regulatory Accounting

ilton

Attachments

cc: Kenneth Traum, Office of the Consumer Advocate Stephen Frink Joseph Ferro, Northern Utilities Patricia French, Esq., NCS FORM III Schedule 1

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION 2006 SUMMER PERIOD RECONCILIATION May 2006 - October 2006

	AMOUNT	
Summer Period Beg. Balance	(\$407,054)	SCHEDULE 2
Less: Reported Collections	(\$9,022,429)	SCHEDULE 2
Add: Cost of Firm Gas Allowable Add: Interest	\$8,829,867 (\$12,088)	SCHEDULE 4 SCHEDULE 2
Summer Period Ending Balance	(\$611,704)	

ES, INC NH Division	OD RECONCILIATION	SCHEDULE 2: ADJUSTMENTS TU REPORTED SUMMER PERIOD ACCOUNTS	December 2005 - November 2006
NORTHERN	2006 SUMME	SCHEDULE 2: ADJUSTMENTS TO H	December 200

		Dec-05	January 06 February	<u>February</u>	<u>March</u>	April	Мау	June	<u>July</u>	August	September	October	November	Total
JMMER PERIOD Summer Period Account Beginning Balance (1) Plus: Cost of Firm Gas (Schedule 4) Less: Reported Collections (Schedule 3) Summer Period Account Ending Balance	****	(407,054) \$ - \$ (407,054) \$	(409,259) - (409,259)	\$ (411,646) \$ \$ \$ (411,646)	\$ (414,047) \$ \$ - \$ \$ - \$ \$ (414,047) \$	(416,463) \$ (416,463) \$ - \$ (416,463) \$	(419,066) 9 1,925,895 9 (1,276,512) 9 230,318 9	229,694 9 1,233,370 9 1,1,882,395) 9 1,19,331) 9	<pre>(419.965) 5 (419.965) 5 (1,139,410 5 (1,038,438) 5 (318,992) 5 </pre>	<pre>6 (321,532) 5 1,327,451 5 (937,521) 5 68,398</pre>	\$ (407,054) \$ (409,259) \$ (411,646) \$ (414,047) \$ (416,463) \$ (419,066) \$ 229,694 \$ (419,965) \$ (321,532) \$ 67,528 \$ 128,129 \$ \$ \$ \$ 5 - \$ - \$ 1,23,370 \$ 1,139,410 \$ 1,327,451 \$ 1,153,098 \$ 2,045,305 \$ \$ 5 - \$ - \$ \$ 1,39,410 \$ 1,327,451 \$ 1,153,098 \$ 2,045,305 \$ \$ 5 - \$ 5 - \$ 5 - \$ \$ 1,367,410 \$ 1,327,451 \$ 1,153,098 \$ 2,045,305 \$ \$ 5 - \$ 5 - \$ \$ - \$ \$ (1,276,512) \$ (1,882,395) \$ (1,038,439) \$ (937,521) \$ (1,093,166) \$ (1,362,560) \$ \$ \$ (407,054) \$ (400,259) \$ (411,646) \$ (414,047) \$ (416,463) \$ 230,318 \$ (419,331) \$ (318,992) \$ 68,398 \$ 1,27,459 \$ 810,875 \$ \$	 \$ 128,129 \$ 2,045,305 \$ (1,362,560) \$ 810,875 	814,103 \$ 5,338 \$ (1,431,838) \$ (612,397) \$	(407.054) 8.829.867 9.022.429) (599.616)
Month's Average Balance \$ (407,054) \$ (407,054) \$ (407,054) \$ (407,054) \$ (407,054) \$ (407,054) \$ (416,463) \$ (94,374) \$ (94,819) \$ (369,478) \$ (126,567) \$ interest Rate \$ (350,478) \$ (126,567) \$ (127,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) \$ (17,522) <	୫ ୫ ୫	(407,054) \$ 6.50% (2,205) \$ (409,259) \$	(409.259) 7.00% (2,387) (411,646)	\$ (411,646) 7.00% \$ (2,401) \$ (414,047)	\$\$ (407,054) \$ (409,259) \$ (411,646) \$ (414,047) \$ (416,463) \$ (94,374) \$ (94,819) \$ (369,478) \$ (126,567) \$ \$\$ \$\$ 6.50% 7.00% 7.50% 7.93% 8.02% 8.25% 8.275.28 8.7.528 \$ 8.7.528 \$ 67.528 \$ 67.528 \$ 67.528 \$ 67.528 \$ 67.528 \$ 67.528 \$ 5 67.528 \$ 67.528 \$ 67.528 \$ 5 5 5 5 5 5	(416,463) \$ 7.50% (2,603) \$ (419,066) \$	(94,374) 7.93% (624) 229,694	5 (94,819) 8.02% 5 (634) 5 (634) 5 (419,965)	 \$ (369,478) 8.25% \$ (2,540) \$ (321,532) 	 \$ (126,567) 8.25% 870) 67,528 	\$ 97,493 \$ 8.25% 8.25% 5 670 \$ 5 128,129 \$	\$ 469,502 \$ 8.25% \$ 3.228 \$ 3.228 \$ 5 \$ 814,103 \$	<pre>\$ 100.853 8.25% \$ 693 \$ (611,704) \$</pre>	(12,088) (611,704)

131

Schedule 2

FURM III Schedule 3 Page 1 of 8

> NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION 2006 SUMMER PERIOD RECONCILIATION SCHEDULE 3: REVENUE BACKUP TO REPORTED COLLECTIONS May 2006 - October 2006

.

•••

GAS COST RECOVERY FOR THE PERIOD OF :

May 2006 - October 2006

Total 300 2.337,942 0 3.828,330 0 3.516,996	300 9,683,267		0.9146 0.9875	266	421)	021	04 / D	000	522	544		A 4	÷€			,	÷	,	- \$ 3.354.852	69 6	427 \$ 9,088,275
FOSS 355,300 0	355,300	67 1	сэ с я	• 69	\$	69 6	÷ •	÷.	÷ •4	• ••	6	506'0'S			. 69	6	6	. 63	• ••	ų	\$ 358,427
G-52 98.392 416,475 173,600	688,467	\$ 1.0441	<pre>\$ 0.9146</pre> \$ 0.9875	\$ 1.0997	\$ (0.0421	\$ 0.0021 \$	5 0.004/	5 0 8703	\$ 0.9522	\$ 1.0644	t03 734	S 380 908	\$ 171430	\$ (28.984	\$ 1.446	\$ 3.236	\$ 99.257	\$ 366,206	\$ 165,302	\$ 630 766	5 630,766
G-51 309,120 746,039 530,831	1,585,990	1.0441	0.9875	1.0997	(0.0421)	0.0021	1 0088	0.8793	0.9522	1.0644	277 TE7	682.327	524, 195	(66.770)	3,331	7,454	311.840	655,992	505,457	1.473 289	1,473,289
G-50 139,186 431,840 273,880	844,906	1.0441 \$	0.9875 \$	1.0997 \$	(0.0421) \$	0.0047	1.0088 \$	0.8793 \$	0.9522 \$	1.0644 \$	145 324 \$	394,961 \$	270.456 \$	(35,571) \$	1,774 \$	3,971 \$	140,411 \$	379,717 \$	260,788 \$	780.916 \$	780,916 \$
G-42 90,808 390,116 131,953	612,877	1.0472 \$	0.9907 \$	1.2439 \$	0.0421) \$	0.0047 \$	1.0119 \$	0.8825 \$	0.9554 \$	1.2086 \$	95 094 \$	358,049 \$	130,725 \$	(25,802) \$	1,287 \$	2,881 \$	91,888 \$	344,278 \$	126,068 \$	562,234 \$	562,234 \$
G-41 317,324 404,690 569,543	1,291,558	1.0472 \$	\$ 0.0907 \$	1.2439 \$	0.0421) \$	0.0047 \$	1.0119 \$	0.8825 \$	0.9554 \$	1.2086 \$	332.302	371,425 \$	564,246 \$	(54,375) \$	2,712 \$	6,070 \$	321,100 \$	357,139 \$	544,142 \$	1,222,381 \$	1,222,381 \$
G-40 278,527 302,411 489,900	1,070,838	1.0472 \$	0.9907 \$	1.2439 \$	0.0021 \$	0.0047 \$	1.0119 \$	0.8825 \$	0.9554 \$	1.2086 \$	291,674 \$	277,553 \$	485,344 \$	(45,082) \$	2,249 \$	5,033 \$	281,842 \$	266,878 \$	468,050 \$	1,016,770 \$	1,016,770 \$
Res. NH 23,457 59,629 42,754	125,839	1.0457 \$ 0 9162 \$	0.9891 \$	1.1846 \$	0.0021 \$	0.0047 \$	1.0104 \$	0.8809 \$	0.9538 \$	1.1493 \$	24,529 \$	54,632 \$	42,288 \$	(5,298) \$	264 \$	591 \$	23,701 \$	52,527 \$	40,779 \$	117,006 \$	117,006 \$
Res. Heat 725,828 1,077,129 1,304,536	3,107,494	1.0457 \$	0.9891 \$	1.1846 \$	0.0021 \$	0.0047 \$	1.0104 \$	0.8809 \$	0.9538 \$	1.1493 \$	758,998 \$	986,866 \$	1,290,317 \$	(130,825) \$	6,526 \$	14,605 \$	133,377 \$	948,843 \$	1,244,267 \$	2,926,487 \$	2,926,487 \$
		69 69		er er	9 69	•	\$	6 7 (\$	\$	\$	\$	\$	њ (\$,	æ (њ,	\$	S	\$
Sales (therms)-May Sales (therms)-June-July Sales (therms)-September	Total	Demand/Commodity Rate-May Demand/Commodity Rate-June-July	Demand/Commodity Rate-September	Prior Period Reconciliation	Working Capital Allowance	Bad Debt Allowance	Total Billed Sales Rate-May	Total Billed Sales Rate-June-July	Total Billed Sales Kate-September		Demand/Commodity Collections-May	Demand/Commodity Collections-June-July	Derreation Contrintodity Collections-September		Pad Dah Allowance	Total Dillod Salas Data Mari	Total Dillad Salas Materiviay	Total billad Sales Rate-June-July	I DUAL DIVIEU DAIES KALE-DEDIEMDEL	Check	Check

-					• ••							
		NORTHE	ERN UTILITIES,	NORTHERN UTILITIES, INC NEW HAMPSHIRE DIVISION	SHIRE DIVISION					Ľ.	FORM III	29-Jan-07
			2006 SUMMER	2006 SUMMER PERIOD RECONCILIATION	LIATION					.,	Schedule 3	e 3
		SCHEDULE	3: REVENUE B/ May 20	NUE BACKUP TO REPORI May 2006 - October 2006	SCHEDULE 3: REVENUE BACKUP TO REPORTED COLLECTIONS May 2006 - October 2006					-	Page 2 of 8	of 8
GAS COST RECOVERY FOR THE MONTH OF :			May-06	Prorated								
Sales (therms)		Res. Heat 219,272	Res. NH 6,382	G-40 114,625	G-41 192,707	G-42 80,807	G-50 42,499	G-51 169,319	G-52 91,492	FOSS 355,300	·	Total 1,272,403
Demand/Commodity Rate	\$	1.0457 \$	1.0457 \$	1.0472 \$	1.0472 \$	1.0472 \$	1.0441 \$	1.0441 \$	1.0441 \$	1.0441		
Prior Period Reconciliation	• ••	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421)		
Working Capital Allowance	69	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021		
Bad Debt Altowance	\$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047		
Total Billed Sales Rate	\$	1.0104 \$	1.0104 \$	1.0119 \$	1.0119 \$	1.0119 \$	1.0088 \$	1.0088 \$	1.0088 \$	1.0088		
Demand/Commodity Collections	ŝ	229.293 \$	6,673 \$	120,035 \$	201,803 \$		44,373 \$	176,786 \$	95,526 \$	370,969	\$	1,330,080
Prior Period Reconciliation	ŝ	(9,231) \$	(269) \$	(4,826) \$	(8,113) \$		(1,789) \$	(7,128) \$	(3,852) \$	(14,958)	÷	(53,568)
Working Capital Allowance	\$	460 \$	13 \$	241 \$	405 \$		\$ 68	356 \$	192 \$	746	\$	2,672
Bad Debt Allowance	¢	1,031 \$	30 \$	539 \$	\$ 906	380 \$	200 \$	796 \$	430 \$	1,670	\$	5,980
Total Summer COG Revenues	Ф	221,553	6,448 \$	115,989 \$	195,001 \$	81,769 \$	42,872 \$	170,809 \$	92,297 \$	358,427	\$	1,285,164
Check	and the second	221,553	6,448	115,989	195,001	81,769	42,872	170,809	92,297	358,427		1,285,164

•••

		NORTHE	NORTHERN UTILITIES, I	INC NEW HAMPSHIRE DIV	HIRE DIV JN					Ĩ	HORM III	
		SCHEDULE	2006 SUMMER P 3: REVENUE BA May 200	2006 SUMMER PERIOU RECONCILIATION 3: REVENUE BACKUP TO REPORTED COI May 2006 - October 2006	2006 SUMMER PERIOU RECONCILIATION SCHEDULE 3: REVENUE BACKUP TO REPORTED COLLECTIONS May 2006 - October 2006					ν Σ	Schedule 3 Page 3 of 8	
GAS COST RECOVERY FOR THE MONTH OF :		6/1	6/1/2006 (old)									
Sales (therms)		Res. Heat 506,556	Res. NH 17,075	G-40 163,903	G-41 124,617	G-42 10,001	G-50 96,688	G-51 139,801	G-52 6,900	FOSS 0	Total 1,06	otal 1,065,539
Demand/Commodity Rate Prior Period Reconciliation	ጭ የት	1.0457 \$ (0.0421) \$	1.0457 \$ (0.0421) \$	1.0472 \$ (0.0421) \$	1.0472 \$ (0.0421) \$	1.0472 \$ (0.0421) \$	1.0441 \$ (0.0421) \$	1.0441 \$ (0.0421) \$	1.0441 \$ (0.0421) \$	1.0441 (0.0421)		
Working Capital Allowance Bad Debt Allowance	en en e		0.0021 \$			0.0021 \$			0.0021 \$	0.0021		
lotal billed sales Kate	¢9		1.0104 \$	1.0119 \$	1.0119 \$	1.0119 \$	1.0088 \$	1.0088 \$	1.0088 \$	1.0088		
Demand/Commodity Collections Prior Period Reconciliation	69 69	529,705 \$ (21,326) \$	17,855 \$ (719) \$	171,639 \$ (6.900) \$	130,499 \$ (5.246) \$	10,473 \$	100,952 \$ (4.071) \$	145,966 \$ (5.886) \$	7,204 \$		5 1.1 2	1,114,292 (44 R59)
Working Capital Allowance	69 6		36.5	344 \$	262 \$	21 5	203 \$	294 \$	14 \$			2,238
rad best historial				165 853 C	:	4/ 3 10 120 E	4 74 4 07 530 6		32 \$		- - 	800,c
Check			1	í.	126,100	10,120	97,539		6,961	and the second sec		1,076,679
GAS COST RECOVERY FOR THE MONTH OF :		6/1	6/1/2006 (new)									
Sales (therms)		Res. Heat 161,275	Res. NH 7,334	G-40 52,663	G-41 104,052	G-42 26,676	G-50 44,497	G-51 132,727	G-52 242,213	FOSS 159,341	Tolal 93	al 930,779
Demand/Commodity Rate	69		0.9162 \$		0.9178 \$	0.9178 \$		0.9146 \$	0.9146 \$	0.9146		
Prior Period Reconciliation Working Capital Allowance	69 69	(0.0421) \$ 0.0021 \$	(0.0421) \$ 0.0021 \$	0.0421) \$	(0.0421) \$	0.0421) \$	0.0421) \$	(0.0421) \$ 0.0021 \$	(0.0421) \$ 0.0021 \$	(0.0421) 0.0021		
Bad Debt Allowance Total Billed Sales Rate	69 69		0.0047 \$ 0.8809 \$		0.0047 \$ 0.8825 \$	0.0047 \$ 0.8825 \$		0.8793 \$	0.0047 \$	0.0047 0.8793		
Demand/Commodity Collections	ŝ			48,334 \$	95,499 \$	24,484 \$	40,697 \$	121,392 \$	221,528 \$	145,733	80	852,147
Prior Period Reconciliation Working Capital Allowance	69 6 9	(6.790) \$ 339 \$	(309) \$ 15 \$	(2.217) \$ 111 \$	(4,381) \$ 219 \$	(1,123) \$ 56 \$	(1,873) \$ 93 \$	(5,588) \$ 279 \$	(10,197) \$ 509 \$	(6,708) 335	\$	(39,186) 1 955
Bad Debt Allowance	49		34 \$	248 \$	489 \$	125 \$	209 \$		1,138 \$	749		4,375
Total Summer COG Revenues	\$	142,067 \$	6,461 \$	46,475 \$	91,826 \$	23,542 \$	39,126 \$	116,706 \$	212,978 \$	140,109	8	819,291
Check		142,067	6,461	46,475	91,826	23,542	39,126	116,706	212,978	140,109	æ	819,291

-		NORTHE 2 SCHEDULE 3	RN UTILITIES, IN 006 SUMMER PE 1: REVENUE BAC May 200	NORTHERN UTILITIES. INC NEW HAMPSHIRE DIV 2006 SUMMER PERIOD RECONCILIATION IEDULE 3: REVENUE BACKUP TO REPORTED COLLECTIC May 2006 - October 2006	NORTHERN UTILITIES. INC NEW HAMPSHIRE DIVN 2006 SUMMER PERIOD RECONCILIATION SCHEDULE 3: REVENUE BACKUP TO REPORTED COLLECTIONS May 2006 - October 2006						FURM III Schedule 3 Page 4 of 8	ر ۵
GAS COST RECOVERY FOR THE MONTH OF :			Jul-D6									
Sales (thems)		Res. Heat 369,461	Res. NH 21,335	G-40 103,523	G-41 107,982	G-42 277,680	G-50 143,613	G-51 251,485	G-52 71,938	FOSS (159,341)	To	Fotal 1,187,676
Demand/Commodity Rate	\$	0.9162 \$	0.9162 \$	0.9178 \$	0.9178 \$	0.9178 \$	0.9146 \$	0.9146 \$	0.9146 \$	0.9146		
Prior Period Reconciliation	в	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421)		
Working Capital Allowance	69	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021		
Bad Debt Allowance	69	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047		
Total Billed Sales Rate	6 9	0.8809 \$	0.8809 \$	0.8825 \$	0.8825 \$	0.8825 \$	0.8793 \$	0.8793 \$	0.8793 \$	0.8793		
Demand/Commodity Collections	\$	338,500 \$	19,547 \$	95,013 \$	99,106 \$	254,855 \$	131,348 \$	230,008 \$	65,794 \$	(145,733)	•	1,088,439
Prior Period Reconciliation	69	(15,554) \$	\$ (868)	(4,358) \$	(4,546) \$	(11,690) \$	(6,046) \$	(10,588) \$	(3,029) \$	6,708	\$	(50,001)
Working Capital Allowance	69	776 \$	45 \$	217 \$	227 \$	583 \$	302 \$	528 \$	151 \$	(335)	\$	2,494
Bad Debt Allowance	₩	1,736 \$	100 \$	487 \$	508 \$	1,305 \$	675 \$	1,182 \$	338 \$	(749)		5,582
Total Summer COG Revenues	\$	325,458 \$	18,794 \$	91,359 \$	95,294 \$	245,053 \$	126,279 \$	221,131 \$	63,255 \$	(140,109)	\$	1,046,514
Check			18,794	91,359	95,294	245,053	126,279	221,131	63,255	(140,109)		1,046,514

.

• •

•••

		SCHEDULE 3: REVENUE May	3: REVENUE BAC May 200	BACKUP TO REPORTI 2006 - October 2006	BACKUP TO REPORTED COLLECTIONS 2006 - October 2006						
GAS COST RECOVERY FOR THE MONTH OF :		1	Aug-06								
Sales (thems)-old rate		Res. Heat 306,507	Res. NH 16,440	G-40 84,251	G-41 135,277	G-42 75,781	G-50 136,604	G-51 230,832	G-52 87,155	FOSS 0	Total 1,072,847
Demand/Commodity Rate	\$	0.9162 \$	0.9162 \$	0.9178 \$	0.9178 \$	0.9178 \$	0.9146 \$	0.9146 \$	0.9146 \$	0.9146	
Prior Period Reconciliation	÷	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421)	
Working Capital Allowance	÷	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021	
Bad Debt Allowance	¢	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047	
Total Billed Sales Rate	€	0.8809 \$	0.8809 \$	0.8825 \$	0.8825 \$	0.8825 \$	0.8793 \$	0.8793 \$	0.8793 \$	0.8793	
Demand/Commodity Collections	÷	280,822 \$	15,062 \$	77,326 \$	124,157 \$	69,552 \$	124,938 \$	211,119 \$	79,712 \$,	\$ 982,68
Prior Period Reconciliation	\$	(12,904) \$	(692) \$	(3,547) \$	(2,695) \$	(3,190) \$	(5,751) \$	(9,718) \$	(3,669) \$		\$ (45,167)
Working Capital Allowance	÷	644 \$	35 \$	177 \$	284 \$	159 \$	287 \$	485 \$	183 \$		\$ 2,25
Bad Debt Allowance	\$	1,441 \$	\$ 11	396	636 \$	356 \$	642 \$	1,085 \$	410 \$	•	\$ 5,04
Total Summer COG Revenues	÷	270,002 \$	14,482 \$	74,352 \$	119,382 \$	66,877 \$	120,116 \$	202,971 \$	76,635 \$	•	\$ 944,81
Check		270,002	14,482	74,352	119,382	66,877	120,116	202,971	76,635	•	944,816

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION 2006 SUMMER PERIOD RECONCILIATION

•--

•

FURM III Schedule 3 Page 5 of 8

		NORTHE 2 SCHEDULE 3	NORTHERN UTILITIES, IN 2006 SUMMER PE 1EDULE 3: REVENUE BAC May 2000	NORTHERN UTILITIES, INC NEW HAMPSHIRE DIVISION 2006 SUMMER PERIOD RECONCILIATION SCHEDULE 3: REVENUE BACKUP TO REPORTED COLLECTIONS May 2006 - October 2006	HRE DIVISION ATION ED COLLECTIONS					D S S C	FORM III Schedule 3 Page 6 of 8
GAS COST RECOVERY FOR THE MONTH OF :		11/6	9/1/2006 (old)								
Sales (therms)-old rate		Res. Heat 239,886	Res. NH 14,520	G-40 61.974	G-41 57,379	G-42 , 9,979	G-50 107,126	G-51 130,996	G-52 15,169	FOSS 0	Total 637,028
Demand/Commodity Rate Prior Period Reconciliation Working Capital Allowance Bad Debt Allowance Total Biitled Sales Rate	69 69 69 69 69 69	0.9162 \$ (0.0421) \$ 0.0021 \$ 0.0047 \$ 0.8809 \$	0.9162 \$ (0.0421) \$ 0.0021 \$ 0.0047 \$ 0.8809 \$	0.9178 \$ (0.0421) \$ 0.0021 \$ 0.0047 \$ 0.8825 \$	0.9178 \$ (0.0421) \$ 0.0021 \$ 0.0047 \$ 0.8825 \$	0.9178 \$ (0.0421) \$ 0.0021 \$ 0.0047 \$ 0.8825 \$	0.9146 \$ (0.0421) \$ 0.0021 \$ 0.0047 \$ 0.8793 \$	0.9146 \$ (0.0421) \$ 0.0021 \$ 0.0047 \$ 0.8793 \$	0.9146 \$ (0.0421) \$ 0.0021 \$ 0.0047 \$	0.9146 (0.0421) 0.0021 0.0047 0.8793	
Demand/Commodity Collections Prior Period Reconciliation Working Capital Allowance Bad Debt Allowance	ው ው ው ው	219.784 \$ (10.099) \$ 504 \$ 1,127 \$	13,303 \$ (611) \$ 30 \$ 68 \$	56.879 \$ (2.609) \$ 130 \$ 291 \$	52,662 \$ (2,416) \$ 120 \$ 270 \$	9.159 \$ (420) \$ 21 \$ 47 \$	97,977 \$ (4,510) \$ 225 \$ 503 \$	119.809 \$ (5,515) \$ 275 \$ 616 \$	13,873 \$ (639) \$ 32 \$ 71 \$	•••••••• ••••••	583,446 (26,819) 1,338 2,994
Total Summer COG Revenues Check	S. S	211,316 \$ 211,316	12,790 \$ 12,790	54,692 \$ 54,692	50,637 \$ 50,637	8,806 \$ 8,806	94,196 \$ 94,196	115,185 \$ 115,185	13,338 \$ 13,338	.	560,959 560,959
GAS COST RECOVERY FOR THE MONTH OF : Sales (thermsh-new rate		9/1// Res. Heat 119.790	9/1/2006 (new) Res. NH 6.517	G-40 47 968	G-41 79.757	G-42 45.252	G-50 49.473	G-51 144.662	G-52 73.306	FOSS	Total 566 776
Demand/Commodity Rate Prior Period Reconciliation Working Capital Allowance Bad Debt Allowance Total Billed Sales Rate	የ የ የ የ የ	0.9891 \$ 0.0421) \$ 0.0021 \$ 0.0047 \$ 0.9538 \$	0.9891 \$ (0.0421) \$ 0.0021 \$ 0.0047 \$ 0.9538 \$	0.9907 \$ 0.0421) \$ 0.0021 \$ 0.0047 \$ 0.9554 \$	0.9907 \$ 0.0421) \$ 0.0021 \$ 0.0047 \$ 0.9554 \$	0.9907 \$ (0.0421) \$ 0.0021 \$ 0.0047 \$ 0.9554 \$	0.9875 \$ 0.0421) \$ 0.0021 \$ 0.0047 \$ 0.9522 \$	0.9875 \$ (0.0421) \$ (0.0421) \$ 0.0021 \$ 0.0047 \$ 0.0047 \$ 0.9522 \$	0.9875 \$ 0.0421) \$ 0.0021 \$ 0.0047 \$ 0.9522 \$	0.9875 (0.0421) 0.0021 0.0047 0.9522	
Demand/Commodity Collections Prior Period Reconciliation Working Capital Altowance Bad Debt Altowance	လ လ လ လ ို	118,484 \$ (5,043) \$ 252 \$ 563 \$	6,446 \$ (274) \$ 14 \$ 31 \$	47.522 \$ (2.019) \$ 101 \$ 225 \$	79.015 \$ (3.358) \$ 167 \$ 375 \$	44,831 \$ (1905) \$ 95 \$ 213 \$	48,855 \$ (2,083) \$ 104 \$ 233 \$	142,854 \$ (6.090) \$ 304 \$ 680 \$	72,390 \$ (3,086) \$ 154 \$ 345 \$	юю юю	560,398 (23,859) 1,190 2,664
Total Summer COG Revenues Check	9	114,256 \$ 114,256	6,216 \$ 6,216	45,829 \$ 45,829	76,200 \$	43,234 \$	47,108 \$ 47,108	137,747 \$ 137,747	69,802 69,802	• •	\$ 540,392 540,392 1,101,352

					-							
			NORTHERN UTILITIES, II 2006 SUMMER P	INC NEW HAMPSHIRE DIVN PERIOD RECONCILIATION	HIRE DIVILUA ATION ED COLLECTIONS					ΓO	FURM III Schedule 3 Dage 7 of 8	
		SURFUCIE	3. REVENUE BA	May 2006 - October 2006	SCHEDULE 3: REVENUE BACKOP TO REPORTED COLLECTIONS May 2006 - October 2006					L		
GAS COST RECOVERY FOR THE MONTH OF :			Oct-06									
Sales (therms)-new rate		Res. Heat 474,891	Res. NH 19,147	G-40 163,832	G-41 272,565	G-42 64,001	G-50 126,591	G-51 235,378	G-52 82,317	FOSS 0	Total 1,43	otal 1,438,722
Demand/Commodity Rate	\$	0.9891 \$	0.9891 \$	0.9907	0:9907	\$ 0.9907	0.9875 \$	0.9875 \$	0.9875 \$	0.9875		
Prior Period Reconciliation	•>	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421) \$	(0.0421)		
Working Capital Allowance	69	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021		
Bad Debt Allowance	÷	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047		
Total Billed Sales Rate	₩	0.9538 \$	0.9538 \$	0.9554 \$	0.9554 \$	0.9554 \$	0.9522 \$	0.9522 \$	0.9522 \$	0.9522		
Demand/Commodity Collections	¢	469.715 \$	18,938 \$	162,308 \$	270,030 \$	63,406 \$	125,009 \$	232,436 \$	81,288 \$,	1,4	,423,130
Prior Period Reconciliation	*	(19,993) \$	(806) \$	(6,897) \$	(11,475) \$	(2,694) \$	(5,329) \$	\$ (606'6)	(3,466) \$,		(60,570)
Working Capital Allowance	€	8 266	40 \$	344 \$	572 \$	134 \$	266 \$	494 \$	173 \$	1		3.021
Bad Debt Allowance	\$	2,232 \$	\$ 06	\$ 0/1	1,281 \$	301 \$	595 \$	1,106 \$	387 \$	•		6,762
Total Summer COG Revenues	÷	452,951 \$	18,262 \$	156,525 \$	260,409 \$	61,147 \$	120,540 \$	224,127 \$	78,382 \$		5 1,3	372,343
Check		452,951	18,262	156,525	260,409	61,147	120,540	224,127	78,382	4	1,3	372,343

		SCHEDULE	ERN UTILI 2006 SUM 3: REVEN	TIES, INC. MER PERI UE BACKI Aay 2006 -	NORTHERN UTILITIES, INC NEW HAMPSHIRE DIVUN 2006 SUMMER PERIOD RECONCILIATION HEDULE 3: REVENUE BACKUP TO REPORTED COLLECTIC May 2006 - October 2006	NORTHERN UTILITIES, INC NEW HAMPSHIRE DIVN 2006 SUMMER PERIOD RECONCILLATION SCHEDULE 3: REVENUE BACKUP TO REPORTED COLLECTIONS May 2006 - October 2006						F UrkM III Schedule 3 Page 8 of 8	~ #
GAS COST RECOVERY FOR THE MONTH OF :			Nov-06	Pro	Prorated								
Sales (therms)		Res. Heat 709,855	Res. NH 17,090		G-40 278,099	G-41 217,221	G-42 22,700	G-50 97,815	G-51 150,790	G-52 17,977	FOSS	Ē.	Total 1,511,548
Demand/Commodity Rate	€ 5 €	0.9891 \$	0.9891	نه و	0.9907 \$	0.9907 \$	0.9907 \$	0.9875 \$	0.9875 \$	0.9875 \$	0.9875	-	84°C,111C,
Working Capital Allowance	÷.	0.0021 \$	0.002	• •• 	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021 \$	0.0021		
Bad Debt Allowance	ŝ	0.0047 \$	0.0047	\$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047 \$	0.0047		
Total Billed Sales Rate	₩	0.9538 \$	0.953	\$ \$	0.9554 \$	0.9554 \$	0.9554 \$	0.9522 \$	0.9522 \$	0.9522 \$	0.9522		
Demand/Commodity Collections	¢	702,118 \$	16,903	\$	275,513 \$	215,201 \$	22,488 \$	96,593 \$	148,905 \$	17,752 \$,	\$	1,495,474
Prior Period Reconciliation	\$	(29,885) \$	(71)	\$ (6	(11,708) \$	(9,145) \$	(626) \$	(4,118) \$	(6,348) \$	(757) \$		69	(63,636)
Working Capital Allowance	÷	1,491 \$	36	*	584 \$	456 \$	48 \$	205 \$	317 \$	38 \$,	\$	3,174
Bad Debt Allowance	\$	3,336 \$	8	\$ 0	1,307 \$	1,021 \$	107 \$	460 \$	\$ 601	84 \$		\$	7,104
Total Summer COG Revenues	÷	677,060 \$	16,300	\$	265,696 \$	207,533 \$	21,687 \$	93,140 \$	143,582 \$	17,118 \$	•	÷	1,442,116
Check			16,300	0	265,696	207,533	21,687	93,140	143,582	17,118			1,442,116

FURM III Schedule 3 p.

•••

FORM III Schedule 4

NORTHERN UTILITIES, INC. NEW HAMPSHIRE DIVISION COST OF GAS ADJUSTMENT RESULTS May 2006 - October 2006

Commodity Costs:	<u>May</u> (Actual)	<u>June</u> (Actual)	<u>July</u> (Actual)	<u>August</u> (Actual)	<u>September</u> (Actual)	<u>October</u> (Actual)	End of Period Adjustments	Total <u>Summer</u>
DEM	\$126,482	\$129,982	\$141,256	\$146,057	\$135,632	\$107,128		\$786,536
Emera	\$119,517	\$91,371	\$58,647	\$0	\$49,640	\$498,666		\$817,841
Withdrawal Charges	\$10	\$10	\$1,198	\$1,082	\$148	\$910		\$3,358
Peoples Energy Wholesale	\$0	\$0	\$0	\$90,340	\$0	\$0		\$90,340
NJR Gas Marketing	\$1,902,106	\$1,583,764	\$1,595,463	\$1,750,921	\$1,712,981	\$1,073,409		\$9,618,644
Colonial Energy	\$0	\$79,761	\$0	\$0	\$0	\$0		\$79,761
Sempra	\$120,056	\$98,434	\$104,109	\$111,935	\$108,828	\$71,762		\$615,124
Cargill, Incorporated	\$205,839	\$153,115	\$138,111	\$0	\$60,376	\$201,032		\$758,473
Net Inventory Injections	-\$2,040,527	-\$1,677,798	-\$1,730,715	-\$1,853,300	-\$1,843,743	-\$1,087,337		-\$10,233,421
Interruptible Costs	-\$937	-\$23,351	-\$16,356	-\$25,395	-\$27,983	-\$27,251		-\$121,273
Net OBA Adj.	-\$99,693	\$115,534	-\$41,666	\$189,237	\$4,863	\$186,787		\$355,061
Transportation Commodity	\$3,418	\$3,175	\$3,496	\$3,140	\$3,175	\$3,596		\$20,000
Coral Energy Resources	\$133,631	\$0	\$119,686	\$0	\$123,965	\$0		\$377,282
Northeast Gas Marketing	\$289,542	\$235,547	\$248,520	\$269,430	\$261,759	\$168,320		\$1,473,118
Distrigas	\$720,214	\$224,396	\$243,467	\$378,776	\$295,489	\$163,416		\$2,025,758
Company Managed	-\$10,245	-\$18,043	\$18,415	-\$10,090	-\$8,987	-\$78,17 9		-\$107,129
LNG	\$1,399	\$5,651	\$9,510	\$7,587	\$7,558	\$5,773		\$37,478
Prior Period Adjustments	\$0	-\$38,603	-\$20,045	-\$2,155	-\$1,436	-\$34,382	\$4,517	-\$92,104
Company Use	-\$1,138	-\$753	-\$802	-\$1,347	-\$1,221	-\$880		-\$6,141
Transportation Charges	\$85,946	-\$17,998	\$14,134	\$20,452	\$18,065	-\$21,927		\$98,672
Hedging Costs	\$152,416	\$2,710	\$4,238	\$5,480	\$6,001	\$561,063		\$731,909
Propane	-\$35,794	\$393	\$117	-\$917	\$235	\$567		-\$35,398
Total Commodity Costs	\$1,672,239	\$947,295	\$890,784	\$1,081,233	\$905,346	\$1,792,474	\$4,517	\$7,293,889

Demand Costs:

	May	June	<u>July</u>	August	September	October	End of Period	Summer
Pipeline Reservation	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	Adjustments	
Tennessee	\$134,377	\$133,240	\$133,044	\$132,047	\$132,047	\$132,387	\$0	\$797,143
Algonquin	\$15,579	\$15,494	\$15,463	\$15,436	\$15,451	\$15,457	\$0	\$92,880
Iroquois	\$20,779	\$20,617	\$20,588	\$20,542	\$20,542	\$20,581	\$0	\$123,650
Texas Eastern	\$3,204	\$3,204	\$3,182	\$3,182	\$3,168	\$3,167	\$0	\$19,107
PNGTS	\$13,272	\$13,272	\$13,272	\$13,272	\$13,272	\$13,272		\$79,629
Transco	\$405	\$405	\$405	\$405	\$392	\$392	\$0	\$2,403
Granite	\$35,496	\$35,662	\$35,494	\$35,477	\$35,716	\$35,187	\$0	\$213,031
Company Managed	-\$1,726	-\$1,526	-\$2,056	-\$2,170	-\$3,027	-\$3,027		-\$13,533
Prior Period Adjustments		\$36,276	-\$541	-\$783	\$65	\$712	\$821	\$36,550
Vector	\$24,652	\$24,652	\$24,652	\$24,652	\$24,652	\$24,652		\$147,910
Product Demand								
DEM	\$480	\$480	\$480	\$480	\$480	\$480	\$0	\$2,881
Demand Revenues	-\$14	-\$7	\$0	-\$13	-\$7	-\$7	\$0	-\$48
LNG, LPG, Other A & G	\$5,890	\$3,575	\$3,570	\$3,082	\$4,220	\$8,091		\$28,428
Capacity Exchange	\$1,262	\$732	\$1,074	\$609	\$781	\$1,488	\$0	\$5,946
Total Fixed Demand	\$253,656	\$286,075	\$248,627	\$246,217	\$247,751	\$252,832	\$821	\$1,535,978
				\$7,468	\$7,468			
Total Gas Costs	\$1,925,895	\$1,233,370	\$1,139,410	\$1,327,451	\$1,153,098	\$2,045,305	\$5,338	\$8,829,867

Total

5	1
e	Dth
M	in
g	səmi
	шn
C	'olu
5	ð
	hedule

November, 2005 to October, 2006

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	guy	Sep	Oct	Total
Northern Utilities - New Hampshire	New H	ampsh	ure										
Purchased/Made													
Supplier													
V	0	0	0	0	0	32,035	25,787	19,301	16,939		8,681	33,280	136,023
B						1,832		10,422					12,254
С		25,559	10,123			1,374							37,056
D							14,535		15,003		14,742		44,280
E	16,877	17,970	17,792	16,217	17,725	15,579	16,482	16,415	17,014	17,102	16,722	16,713	202,608
F	62,010	66,452	55,674	45,967	51,429	41,213	85,801	28,951	29,039	45,731	47,912	21,394	581,573
G	0	0	0	0	0								0
Н	2,480					114,481	15,472	12,063	7,260		9,828	85,577	247,161
Ι	13,394	14,262	14,121	12,871	14,067								68,715
J						208,355	213,330	219,543	220,212	221,355	223,591	216,319	1,522,705
K	32,742	34,862	34,518	31,462	34,387	30,223	31,976	31,846	33,008	33,179	32,433	32,424	393,060
L										10,703			10,703
M		31,690	31,380	28,602			12,718	12,666	13,128	13,196	12,899	12,896	169,175
Ν	59,530	199,322	197,306	180,164	62,522								698,844
0												1,426	1,426
Total Supplier	187,033	390,117	360,914	315,283	180,130	445,092	416,101	351,207	351,603	341,266	366,808	420,029	4,125,583
Fuel													
ALGONQUIN GAS			-16										-16
GRANITE STATE GAS	-1,928	-3,338	-3,317	-3,406	-2,824	-1,164	-926	-591	-567	-530	-621	-1,003	-20,215
PORTLAND NATURAL GAS	-611	-1,391	-2,186	-2,563	-2,739	-110	-116	-116	-105	-106	-78	-88	-10,209
TENNESSEE GAS PIPELINE	-907	-1,143	-892	-1,001	-973	-634	-814	-750	-840	-779	-826	669-	-10,258

Wednesday, November 29, 2006

Page 1 of 4

۰.,	S	1
	le	
	3	
	ed	
	he	
	\mathbf{c}	117
	5	7

November, 2005 to October, 2006

(Volumes in Dth)													
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Northern Utilities - New Hampshire TEXAS EASTERN Total Fuel -5,872 -6,4	- New H -3,446	(amps) -5,872	hire -63 -6,474	-6,970	-6,536	-1,908	-1,856	-1,457	-1,512	-1,415	-1,525	-1,790	-63 -40,761
OBA ALGONQUIN GAS PORTLAND NATURAL GAS	148,122	421,019	-1,255 258,689	275,100	209,428	69,060	81,529	68,973	75,749	70,626	77,131	108,724	-1,255 1,864,150
TENNESSEE GAS PIPELINE Total OBA	() -151,265 -3,143	-425,687 -4,668	-261,214 -3,780	-276,357 -1,257	-207,209 2,219	-58,430 10,630	-80,316 1,213	-62,072 6,901	-88,306 -12,557	-64,030 6, <i>596</i>	-73,111 4,020	-92,435 16,289	-1,840,432 22,463
EUT Confirmed Nominations	242,903	323,703	240,817	228,126	250,440	244,751	215,489	211,239	209,059	224,535	225,233	263,895	2,880,190
Storage Injection						-211.560	-227,864	-229,966	-235,216	-232.058	-238,334	-216,319	-1.591.317
Withdrawal Total Storage	199,078 199,078	278,172 278,172	305,805 305,805	367,842 367,842	387,435 387,435	1,167 -210,393	-227,864	-229,966	-235,216	-232,058	-238,334	-216,319	1,539,499 -51,818
Off System Delivery	-714	-1,272	-753	-686	-750	-398	-392	-521	-570	662-	-2,091	-752	-9,698
Receipt Total Off System	-714	511 -761	-753	-686	-750	-398	-392	-521	-570	-799	1,310 -781	-752	1,821 -7,877
LNG Lewiston Boil-Off	491	617	532	655	754	540	492	738	805	781	705	511	7,621
Lewiston Vapor Total LNG	491	16 633	532	655	1,407 2,161	540	492	738	805	781	705	511	1,423 9,044

Wednesday, November 29, 2006

Page 2 of 4

Schedule 5 (Volumes in Dth)							K	November, 2005 to October, 2006	ıber,	2005 1	to Oct	ober,	2006
	Νον	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Northern Utilities - New Hampshire	New H	ampsi	hire										
Total Purchased/Made	622,202	981,324	897,061	902,993	815,099	488,314	403,183	338,141	311,612	338,906	356, 126	481,863	6,936,824
Throughput New Hampshire													
Flow	124,845	92,107	117,062	148,401	158,194	37,600	9,199	71,228	-43,533	-38,745	-161,605	-98,050	416,703
Fuel at Newington (1.00%)	-1,721	-5,595	-3,487	-4,250	-4,236	-2,117	-296	-502	-1,824	-1,399	-2,393	-2,964	-30,784
Fuel at Pleasant St (1.00%)	-2,905	-2,705	-3,762	-2,749	-1,874	-2,158	-3,479	-2,070	-1,660	-2,302	-2,699	-2,666	-31,029
Gate	497,874	892,088	782,182	756,689	657,988	451,767	395,220	267,159	356,533	379,206	519,307	581,813	6,537,826
Linepack	267	-359	67	-65	-174	375	137	-226	274	-885	-95	649	-5
Total New Hampshire	618,360	975,536	892,092	898,026	809,898	485,467	400,781	335,589	309,790	335,875	352,515	478,782	6,892,711
Total Throughput	618.360	975.536	892.092	898.026	809.898	485.467	400.781	335.589	309.790	335.875	352.515	478.782	6.892.711
Diff Throughput v Purchased/Made	-3,844	-5, 787	-4,971	-4,967	-5,201	-2,843	-2,401	-2,552	-1,823	-3,031	-3,614	-3,082	-44,116
% Diff Throughput v	-0.62%	-0.59%	-0.56%	-0.55%	-0.64%	-0.59%	-0.60%	-0.76%	-0.59%	-0.90%	-1.03%	-0.64%	-0.64%
Sales													
C&I Gas													
NH Charged NH Uncharged - Current	194,672 136,192	303,692 208,724	394,162 459,693	423,845 194,581	416,620 177,586	252,908 119,869	180,312 85,355	130,645 51,259	79,894 41,338	75,215 47,407	82,611 46,915	94,684 82,984	2,629,260 1,651,903
Wednesday, November 29, 2006													Page 3 of 4

- 1019.	edute 5	tes in Dth)
	Schee	(Volumes

November, 2005 to October, 2006

Wednesday, November 29, 2006

Page 4 of 4

Attachment A

NORTHERN UTILITIES NEW HAMPSHIRE DIVISION DEFERRED OFF-PEAK WORKING CAPITAL ALLOWANCE ON PURCHASED GAS COSTS October 31, 2006	
---	--

ÖFE-PEAK PERIOD

ENDING BAL W/ INTEREST	2,069	272	(22)	293	10	930	(2.238)
	10	8		-	-	e	(4)
INTEREST RATE INTEREST	7.93%	8.02%	8.25%	8.25%	8.25%	8.25%	8.25%
ENDING AVE MONTHLY ALANCE BALANCE	1,564	1,167	123	134	151	469	(652)
ENDING A BALANCE	2,059	264	(26)	292	6	927	(2,234)
ORKING CAP DEFERRED	989	(1,804)	(298)	317	(284)	917	(3,164)
CURRENT WORKING CAP W COLLECTIONS	2,672	4,192	2,494	2,253	2,528	3,021	3,174
ALLOWED WORKING CAP CURRENT COLLECTION WORKING CAP RATE COLLECTIONS DEFERRED	0.0021	0.0021	0.0021	0.0021	0.0021	0.0021	0.0021
FIRM	1,272,403	1,996,318	1,187,676	1,072,847	1,203,754	1,438,722	1,511,548
WKG CAP ALLOWANCE	3,661	2,388	2,196	2,570	2,244	3,938	10
EGINNING BALANCE				(22)		10	930
B	MAY \$	JUNE \$	JULY \$	AUGUST \$	SEPTEMBER \$	OCTOBER \$	NOVEMBER \$

(2,238)
20
(3,328)
20,335
9,683,267
17,007
1,070
÷

145

.

Attachment B		END BAL	2,652	(1,059)	(1,439)	(388)	(725)	1,861	(5,230)	(5,230)
Atta		END BAL INTEREST W/ INTEREST	6	5	(6)	(9)	(4)	4	(12)	(12)
		INTEREST <u>RATE</u>	7.93%	8.02%	8.25%	8.25%	8.25%	8.25%	8.25%	
		AVE MO BALANCE	1,290	794	(1,245)	(010)	(555)	566	(1,679)	
		ENDING	2,644	(1,064)	(1,430)	(382)	(121)	1,858	(5,219)	
WANCE		BAD DEBT DEFERRED <u>BALANCE</u>	2,707	(3,717)	(371)	1,057	(333)	2,582	(7,080)	
ITIES, INC DIVISION PENSE TION ALLO 2006	RIOD	BAD DEBT NLLECTIONS Schedule 3	5,980	9,383	5,582	5,042	5,658	6,762	7,104	45,511
NORTHERN UTILITIES, INC NEW HAMPSHIRE DIVISION BAD DEBT EXPENSE ATION OF COLLECTION ALL October 31, 2006	OFF-PEAK PERIOD	BAD DEBT COLLECTIONS LOWANCE Schedule 3	8,687	5,666	5,211	6,099	5,325	9,344	24	40,357
NORTHERN UTILITIES, INC NEW HAMPSHIRE DIVISION BAD DEBT EXPENSE CALCULATION OF COLLECTION ALLOWANCE October 31, 2006	5	AL	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%	0.45%
CA		NEW HAMPSHIRE % ALLOWED BEG. BAL FIRM GAS COSTS BAD DEBT	1,930,493	1,259,109	1,157,962	1,355,416	1,183,324	2,076,494	5,348	8,968,147
		N BEG. BAL F	(63)	2,652	(1,059)	(1,439)	(388)	(725)	1,861	(63)
L	All classes		MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	

May	June	NORTHERN (July	UTILITIES. NEW HAMPS Summer 2006 Period August Septemt	NORTHERN UTILITIES, NEW HAMPSHIRE DIVISION Summer 2006 Period July August September Octobe	DIVISION	Attachment C TOTAL	
206,053 233,794	125.051 152,462	124,887 166,669	107.821 63.703	147,626 200,545	283,042 151,155	994,480 968,327	
	27,411	41,782	(44,118)	52,919	(131,887)	(26,153)	
199,687 233,794 (34,107)	117,316 152,462 (35,146)	134.909 166.669 (31,760)	107.510 63.703 43.807	141,902 200.545 (58,643)	275,652 151,155 124,497	976,976 968,327 8,649	
(6,366)	(1,735)	10,022	(311)	(5.724)	(2,390)	(17,504)	-1.76%
						(58.322) 40,818	
						(17,504)	
					NORTHERN UT	NORTHERN UTILITIES, NEW HAMPSHIRE DIVISION Summer 2006 Period	

		% difference	7 6792		-7.66%	-7.58%	-3.61%	-10.27%	0.56%	-12.90%	45.84%	51.26%	1.55%	-1.76%
	Total Chg	MMBtu	(26.316)	(0) (0)	(1,005)	(27,320)	(4.600)	(8,716)	783	(22,742)	22,537	23,554	9,816	(17.504)
	ares Due to	ad Pattern	/2E 0201	(n70'07)	(222)	(26,142)	1,913	(1,971)	21,589	(1.617)	34,303	12,743	66,960	40.818
a of encoded	Change In Safes Due to Change In:	Meter Count Load Pattern	(306)	(000)	(183)	(1.178)	(6.513)	(7,745)	(20,808)	(21,125)	(11,766)	10,811	(57,144)	(58 322)
USE		Difference	166 07	(0.2.0)	(0.02)	(0.25)	0.08	(0.32)	8.91	(1.38)	385.43	202.27	594.98	504 73
NORMAL AVERAGE USE	2006	Actual		10.7	1.11	3.92	5.07	13.79	58.21	131.48	805.64	1,103.21	2,117.39	101 31
NORMAL	2006	Forecast	105	2.04	1.13	4.17	4.99	14.11	49.30	132.86	420.21	900.94	1,522.42	1 676 50
		-		-0-1	-6.0%	-0.7%	-5.1%	-8.2%	-14.8%	-12.0%	-23.9%	23.5%	-6.7%	200
		Difference	10617	(nei)	(692)	(822)	(1,306)	(249)	(422)	(159)	(28)	12	(2,452)	1470 61
METERS	2006	Actual		677' 61	10,899	125,128	24,274	6,159	2,423	1,168	68	63	34,176	100 301
	2006	Forecast	111 200	800, 911	11,591	125,950	25,580	6,708	2.845	1,327	117	51	36,628	043 647
		-	100	e/ 0.1-	-7.7%	-7.6%	-3.6%	-10.3%	0.6%	-12.9%	45.8%	51.3%	1.5%	/aC +
		Difference	(100 34E)	(616'07)	(1,005)	(27,320)	(4.600)	(9.716)	783	(22,742)	22,537	23,554	9.816	(17 ED4)
NORMAL MMBtu	2006	Actual	304 466	001170	12,107	333,263	122,973	84,919	141.049	153,568	71,702	69,502	643,713	070 070
ION	2006	Forecast	414 TAC	1.17,140	13,112	360,583	127,573	94,635	140,266	176,310	49,165	45,948	633,897	001 100

stal Company

stal C & I

52 2 51 2 50

ss Heat ss General otal Res