



800 LaSalle Avenue
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Minneapolis, MN 55459-0038

PUBLIC DOCUMENT
Trade Secret Information has been Excised

July 1, 2014

Dr. Burl Haar
Executive Secretary
Minnesota Public Utilities Commission
350 Metro Square Building
121 East Seventh Place, Suite 350
St. Paul, Minnesota 55101-2147

Re: CenterPoint Energy 's Request for Change in Demand Units
Docket No. G008/M-14-_____

Dear Dr. Haar:

Pursuant to Minnesota Rule part 7825.2910, Subpart 2, CenterPoint Energy ("CPE" or the "Company") submits a Request for a Change in Demand Units (Request). CenterPoint Energy requests approval to implement its changes effective November 1, 2014. This change does not reflect the 2013-14 NNG Base/Variable split or the final Reservation Fee cost estimate. Updates will be noted in supplemental filings.

CenterPoint Energy expects to increase overall demand costs on November 1 by \$0.00627 per therm from June 1, 2014 rates before changes due to Final Rate implementation. The annual effect on a residential heating customer using 922 therms (2008 Rate Case residential use-per customer) is an increase of about \$5.78. The increase is due to small additions of entitlement at Lexington and Buffalo/Monticello to support system growth, but primarily due to the zeroing-out of the off system and capacity release credits currently in effect. (The off-system and capacity release credits have reduced customer's charges by almost \$6.6 million over the last year.)

CenterPoint Energy has designated information in this document trade secret. Specifically Exhibit A, pages 1 and 2; Exhibit B, page 3. The information meets the definition of trade secret in Minn. Stat. 13.37 subd.1(b) as follows: (1) the information was supplied by CenterPoint Energy, the affected organization; (2) CenterPoint Energy has taken all reasonable efforts to maintain the secrecy of the information, including protecting it from disclosure in this document; and (3) the protected information contains gas supply contract information which derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use.

The attached pages detail the implementation of CenterPoint Energy's 2014-2015 Heating Season Supply Plan. Feel free to contact me at (612) 321-5078 if you have any questions.

Sincerely,
/s/
Marie M. Doyle

AFFIDAVIT OF SERVICE

STATE OF MINNESOTA)
) ss.
COUNTY OF HENNEPIN)

Marie M. Doyle, being first duly sworn on oath, deposes and says she served via e filing or caused to be served electronically on behalf of CenterPoint Energy: its Request for Change in Demand Units for the 2014-2015 heating season on the Minnesota Public Utilities Commission; on the Office of Energy Security (OES) and; on the Office of the Attorney General - Residential Utilities Division; and on those on the attached service list requesting service electronically. A notification of its Request for Change in Demand Units report as described in Minn. Rules pt. 7825.2910, Subpart 3 was served on persons on the enclosed service list requesting paper, by delivering by hand at the respective addresses on the list or by placing in the U.S. Mail at the City of Minneapolis.

/s/
Marie M. Doyle, Tariffs Administrator
Regulatory Services
CenterPoint Energy

Subscribed and sworn to before me
this 1st day of July, 2014

/s/ Mary Jo Schuh
Notary Public
Term expires: 01/31/2015

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
David	Aafedt	daafedt@winthrop.com	Winthrop & Weinstine, P.A.	Suite 3500, 225 South Sixth Street Minneapolis, MN 554024629	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Julia	Anderson	Julia.Anderson@ag.state.mn.us	Office of the Attorney General-DOC	1800 BRM Tower 445 Minnesota St St. Paul, MN 551012134	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
James J.	Bertrand	james.bertrand@leonard.com	Leonard Street & Deinard	150 South Fifth Street, Suite 2300 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Brenda A.	Bjorklund	brenda.bjorklund@centerpointenergy.com	CenterPoint Energy	800 LaSalle Ave FL 14 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
James	Canaday	james.canaday@ag.state.mn.us	Office of the Attorney General-RUD	Suite 1400 445 Minnesota St. St. Paul, MN 55101	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Jerry	Dasinger	jerry.dasinger@state.mn.us	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 551012147	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Jeffrey A.	Daugherty	jeffrey.daugherty@centerpointenergy.com	CenterPoint Energy	800 LaSalle Ave Minneapolis, MN 55402	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
William	Davis	lkurth@campls.org	Community Action of Minneapolis	505 East Grant St Ste 100 Minneapolis, Minnesota 55405	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Ian	Dobson	ian.dobson@ag.state.mn.us	Office of the Attorney General-RUD	Antitrust and Utilities Division 445 Minnesota Street, 1400 BRM Tower St. Paul, MN 55101	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 500 Saint Paul, MN 551012198	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Edward	Garvey	garveyed@aol.com	Residence	32 Lawton St Saint Paul, MN 55102	Paper Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Elizabeth	Goodpaster	bgoodpaster@mncenter.org	MN Center for Environmental Advocacy	Suite 206 26 East Exchange Street St. Paul, MN 551011667	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Burl W.	Haar	burl.haar@state.mn.us	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 551012147	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Robert	Harding	robert.harding@state.mn.us	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 55101	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Richard	Haubensak	RICHARD.HAUBENSAK@ CONSTELLATION.COM	Constellation New Energy Gas	Suite 200 12120 Port Grace Boulevard La Vista, NE 68128	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Mary	Holly	mholly@winthrop.com	Winthrop & Weinstine, P.A.	225 S Sixth St Ste 3500 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Linda	Jensen	linda.s.jensen@ag.state.mn.us	Office of the Attorney General-DOC	1800 BRM Tower 445 Minnesota Street St. Paul, MN 551012134	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Eric	Jensen	ejensen@iwla.org	Izaak Walton League of America	Suite 202 1619 Dayton Avenue St. Paul, MN 55104	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
John	Lindell	agorud.ecf@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012130	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Peter	Madsen	peter.madsen@ag.state.mn.us	Office of the Attorney General-DOC	Bremer Tower, Suite 1800 445 Minnesota Street St. Paul, Minnesota 55101	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Andrew	Moratzka	apmoratzka@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Karen	Olson	karen.olson@ag.state.mn.us	Office of the Attorney General-RUD	1400 Bremer Tower 445 Minnesota St St. Paul, MN 55101	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
LauraSue	Schlatter	LauraSue.Schlatter@state.mn.us	Office of Administrative Hearings	600 North Robert Street St. Paul, Minnesota 55101	Paper Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Janet	Shaddix Elling	jshaddix@janetshaddix.com	Shaddix And Associates	Ste 122 9100 W Bloomington Frwy Bloomington, MN 55431	Paper Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Peggy	Sorum	peggy.sorum@centerpointenergy.com	CenterPoint Energy	800 LaSalle Avenue PO Box 59038 Minneapolis, MN 554590038	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
James M.	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	470 U.S. Bank Plaza 200 South Sixth Street Minneapolis, MN 55402	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014
Eric	Swanson	eswanson@winthrop.com	Winthrop Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	GEN_SL_CenterPoint Energy_Demand Entitlement 2014

ADDITIONAL INFORMATION
Minn. Rule part 7829.1300, Subp. 3
CenterPoint Energy

- A. The name, address, and telephone number of the utility:

CenterPoint Energy Resources Corp., d/b/a/ CenterPoint Energy Minnesota Gas
800 LaSalle Avenue
P.O. Box 59038
Minneapolis, MN 55459-0038
(612) 372-4664

- B. The name, address, and telephone number of the attorney for the utility:

Brenda Bjorklund
CenterPoint Energy
800 LaSalle Avenue
P.O. Box 59038
Minneapolis, MN 55459-0038
(612) 321-4976

- C. The date of the filing and the date the proposed rate or service change will go into effect:

Date Filed: July 1, 2014
Effective Date: November 1, 2014

- D. The statute that the utility believes controls the time frame for processing the filing:

CenterPoint Energy is unaware of any statute that controls the time frame for processing this filing.

- E. The signature and title of the utility employee responsible for the filing:

/s/

Marie M. Doyle
Rate Analyst
(612) 321-5078

SUMMARY OF MISCELLANEOUS TARIFF FILING
Minn. Rule part 7829.1300, Subp. 1

CenterPoint Energy

Filing Upon a Change in Demand
Minn. Rule part 7829.1300, Subp. 2

A filing for a change in demand is required when there is an increase or decrease in demand, a redistribution of demand percentages among classes, or if one form of demand is exchanged for another. CenterPoint Energy will increase overall demand costs on November 1, by \$0.00627 per therm from June 1, 2014 rates due to small additions of entitlement and the zeroing-out of the off system and capacity release credits currently in effect. The annual effect on a residential heating customer using 922 therms is an increase of about \$5.78 per year.

**Filing Upon a Change in Demand
Minn. Rule part 7829.1300, Subp. 2**

**CenterPoint Energy
November 2012**

7825.2910 FILING BY GAS UTILITIES

Subp.2. Filing upon a change in demand. Gas utilities shall file for a change in demand to increase or decrease demand, to redistribute demand percentages among classes, or to exchange one form of demand for another. A filing must contain:

A. A description of the factors contributing to the need for changing demand.

Pipeline Entitlement:

The Company plans to add 5,352 additional entitlements for this winter season, with a corresponding increase of 2,198 DT in the summer. Entitlements are being added at Lexington and Buffalo/Monticello to support growth in customer demand.

Detail: Lexington – 499 Dekatherms (DT) 12-month and 853 DT Winter only
Buffalo/Monticello - 1699 DT 12 month and 2,301 5- month Winter only

Storage Changes and Additions:

Tenaska – contract extension at a lower rate. Tenaska Marketing Ventures offered to extend the existing storage service to CenterPoint Energy at a significant reduction to current contract rates – well below pipeline rates for the same service. This service has been very beneficial by providing needed flexibility and capturing the favorable difference in summer prices versus winter prices that usually occurs. CPE plans to allocate this contract the same as it has for the last several years.

BP Storage – additional 5 Billion Cubic Feet of storage capacity, with a maximum daily withdrawal of 50,000 DT. This storage capacity serves two primary needs, plus additional benefits. CenterPoint Energy requires additional weekend flexibility to handle load swings from Saturday to Monday. In addition, protection is desired for some level of daily priced gas to avoid spikes like those faced during the winter of 2013-2014 where prices reached extremely high levels. This added storage capability provides both the flexibility and price protection desired. Storage also provides the ability to capture the favorable difference in summer prices versus winter prices that usually occurs.

FDD Storage/Service - additional 500,000 Cubic Feet of storage capacity, with a maximum daily withdrawal of 8,647 DT. Having FDD storage capacity allows CenterPoint Energy to make real time adjustments to daily supplies (one hour before the start of the gas day) which is not provided by any other service. In addition, this service provides for resolution of monthly imbalance volumes. This captures the favorable difference in summer prices versus winter prices that exists with other storage services.

CenterPoint Energy is proposing to allocate the two new storage contract's fixed costs by allocating 75 percent to demand costs and 25 percent to commodity costs. CenterPoint Energy allocates these costs like reservation fees detailed in Docket No. G-008/M-11-1078. These contracts similarly serve both firm and interruptible customers with swing gas supplies.

contracts similarly serve both firm and interruptible customers with swing gas supplies.

B. *The Utility's design-day demand by customer class and the change in design day demand, if any, necessitating the demand revision.*

Design Day Model:

As described in our 2013 Demand Entitlement filing (Docket G008/M-12-864), CenterPoint Energy worked with Concentric Energy to develop a model that met the following criteria:

- Include more data observations
- Reflect more current customer behavior (use-per-customer)
- Incorporate non-linear relationship between daily demand and Heating Degree Days (HDD)
- Provide a Model with coefficients that are consistent with expectations, and are statistically significant

Concentric's report provided extensive review of CenterPoint Energy's methodology, along with reviews of methods used by other similarly situated natural gas companies and an analysis of the strengths and weaknesses of different estimating methods.

CenterPoint Energy updated the model for the upcoming winter by adding an additional heating season of daily data and dropping the oldest year.

CenterPoint Energy's Design Day Estimate for 2014-2015

	<u>Last Year 2012-2013</u>	<u>2014-2015</u>
Requirements		
Calculated Design Day	1,288,000	1,290,000
Physical Reserve	<u>36,000</u>	<u>36,000</u>
Total Requirements	1,324,000	1,326,000
Supply		
Pipeline Entitlement	1,038,466	1,043,818
Underground Storage (UGS)	50,000	50,000
Liquefied Natural Gas(LNG)	72,000	72,000
Propane	<u>179,633</u>	<u>178,600</u>
Net Supply	1,340,099	1,344,418
Reserve Margin Range:		
Available Capacity Net Requirements	16,099	18,418
As a percentage of Total Requirements	1.2%	1.4%
Available including Physical Reserve	52,099	54,418
(Reserve / Design Day)	3.9%	4.1%

CenterPoint Energy's design-day forecasting dataset includes daily usage data from all winter

count of firm customers, and includes both HDDs and the square of the HDDs as independent variables to account for the non-linear relationships between HDD and usage. The model estimates the expected Use-per-customer (UPC) at various levels of HDD. This model uses many observations, which reflect recent customer use patterns. There is a good fit, as the actual observations (high R^2 of .9753) and the coefficients are consistent with expectations and are statistically significant. (See Exhibit B, page 1 for model specifications and statistical test results, and Exhibit B, pages 5-18 for the daily data set.)

To account for the limited observations available at extremely cold temperatures, CPE calculates the UPC level from the model at the upper level of the 95% confidence interval. This limits the likelihood of the actual UPC being above the estimate to a 2.5% chance, which CPE believes is necessary in Minnesota's cold climate. As shown in Exhibit B, page 1, CenterPoint Energy's estimated Design Day for the 2014-2015 heating season is 1,290,000, assuming 90 HDDs and a Firm customer count of 830,002.

Exhibit B details CenterPoint Energy's design day model, along with related data requested annually by the Department of Commerce (DOC) to complete its analysis.

Cost Estimates:

Exhibit A, Page 1 contains the Annual Demand Cost Calculation that the Company will make effective November 1, 2014, reflecting updated entitlement expense. Prior to implementation, CPE plans to update noted values when they become final. In addition, CPE expects to implement final rates in Docket No. G-008/GR-13-316, which will impact the sales estimate used and the propane expense added to total demand costs.

Exhibit A, Page 2 shows the current (June 1, 2014) Annual Demand Cost Calculation, provided for comparison purposes as requested in previous demand filings.

Note: Exhibit A is trade secret because it contains details on contracted units and rates, and disclosure of this information would adversely affect our ability to negotiate future contracts with capacity suppliers. A public version is supplied in the public document that summarizes available capacity, removing detailed information that CenterPoint Energy considers to be trade secret.

C. A summary of the levels of winter versus summer usage for all customer classes.
12 months ended March 2014 (in Dekatherms) –

<u>Customer Class</u>	<u>Winter</u>	<u>Summer</u>	<u>Total</u>
Small Volume Firm	92,647,117	28,502,848	121,149,965
Large General Service	0	0	0
Small Vol. Dual Fuel	11,012,088	5,205,705	16,217,793
Large Vol. Dual Fuel	<u>7,119,797</u>	<u>6,791,549</u>	<u>13,911,346</u>
System Total	110,779,002	40,500,102	151,279,104
SV -Transport	2,336,246	556,254	2,892,500
LV -Transport	17,044,852	23,697,625	40,742,477

D. A description of design-day gas supply from all sources under the new level, allocation, or form of demand.

Exhibits A, B and C contain the detailed pipeline entitlements and other demand costs.

**Filing Upon a Change in Demand
Minn. Rule part 7829.1300, Subp. 2**

**CenterPoint Energy
Summary of Exhibits**

- Exhibit A * Annual Demand Cost Calculation - Proposed November 1, 2014
 * Annual Demand Cost Calculation - Effective June 1, 2014

Note: Early estimate of demand per-unit factor does not include changes that will be due to changes approved in Docket No. G-008/GR-13-316

- Exhibit B Additional Information Request from the Department of Commerce
Additional information pursuant to the Department's request to all utilities concerning demand entitlement changes dated October 1, 1993.

- o Design Day Study Model Specification (page 1)

DOC Annual Data Requirements:

- Heating Degree Day data for the most recent 12 month period (page 2)
- Historical and Projected Design Day and Peak Day requirements (page 2)
- * Demand Profile (page 3)
- Historic gas price change comparisons (page 4)
- Design Day Data (pages 5-18)

- Exhibit C Supporting Workpapers

- BP Canada – page 1
- FDD – page 2
- Tenaska – page 3

- Exhibit D Intervenor Notification Filing Requirements pursuant to Minnesota Rule 7825.2910, Subpart 3.

* Note: Trade Secret Information is excised from the public copy

DOES NOT INCLUDE UPDATES
EXPECTED FOR FINAL RATES IN 13-316

Demand Summary

Rows marked with an "X" are considered Trade Secret	Annual Demand Cost Calculation:		UNITS (DT)	RATE (contract x 30.4 days)	Number of Months or Days	Total Annual Cost
	NORTHERN PIPELINE	(non-discounted)				
X						1
X						1
X						
X						
X						2
X						2
X						1
X						2
X						
X						
X						3
X						
X						
X						3
X						
X						3
X						
X						3
X						
X						3
X						
X						3
X						
X						4,5
X						6
				Total NNG Demand Bill		\$57,154,485
	VIKING PIPELINE					
X						
				Total Viking Demand Bill	\$	2,316,307
				Demand		
	SUPPLY DEMAND			Allocation		
X						
X						
X						7
X						8
X						9
X						
	CAPACITY RELEASE/ ADJUSTMENTS					
			UNITS	RATE	Months or Days	
X						
X						
X						
X						10
				Plus: Propane Costs		\$243,546
				Annual Estimated Demand Expense		\$73,227,391
				Divided by: Annual Demand Volume (RC 2013 Firm Volumes)		1,009,900,000
				Docket G-008/M-13-728		
				Rate		0.07251
				June 2014 Rate	\$	0.06624
				Final Demand Rate	\$	0.00627

Notes:

1. Lexington #1 growth (499 Dt TF 12 Base/Variable and 853 Dt TF 5)

2. Buffalo / Montrose Growth (1,699 Dt TF 12 Growth and 2,301 Dt TF 5)

3. New Discounted Winter Rate

4. Updated Firm Sales estimate (6 year average)

5. NNG Commodity rate change 4/1/2014 + ACD of \$0.0012)

6. Backhaul one-part rate

7. Contract Extension at new demand rate (Exhibit C, page 3)

8. New Storage - propose 75% Demand / 25% Commodity split on fixed charges (Exhibit C, page 1)

9. New Storage - propose 75% Demand / 25% Commodity split on fixed charges (Exhibit C, page 2)

10. Zero -out off system demand credit

\$

5.78

Bill for 922 Therms

EXHIBIT A, Page 2 of 2
CenterPoint Energy - Minnesota Gas
PUBLIC DATA
e Secret Information has been Excised

Notes:

1. No Change to Off-System Credit
2. Demand Adjustment - not in effect June - September

Regression Statistics	
Multiple R	0.988127431
R Square	0.97639582
Adjusted R Square	0.976343598
Standard Error	0.035580651
Observations	907

ANOVA					
	df	SS	MS	F	Significance F
Regression	2	47.34054019	23.6702701	18697.15069	0
Residual	904	1.144448399	0.001265983		
Total	906	48.48498859			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.062255298	0.00653029	9.533312927	1.36053E-20	0.049439005	0.07507159	0.049439005	0.07507159
HDDs	0.012606505	0.000331675	38.00855801	1.2799E-189	0.011955562	0.013257449	0.011955562	0.013257449
HDDs^2	3.50246E-05	4.02255E-06	8.707047239	1.46342E-17	2.71299E-05	4.29192E-05	2.71299E-05	4.29192E-05

Year	HDDs	Customer #	UPC @ DD	Volume @ DD	UPC @ 95% CI UL	Volume @ 95% CI UL	Diff
2015	90	830,002	1.481	1,229,000	1.554	1,290,000	61,000
2016	90	837,569	1.481	1,240,000	1.554	1,302,000	62,000
2017	90	845,233	1.481	1,252,000	1.554	1,313,000	61,000
2018	90	852,986	1.481	1,263,000	1.554	1,326,000	63,000
2019	90	858,477	1.481	1,271,000	1.554	1,334,000	63,000

CENTERPOINT ENERGY

ADDITIONAL INFORMATION REQUEST FROM THE DOC

2. Provide Heating Degree Day (HDD) data for the most recent 12 month period, ending March 31 or October 30.

		Peak Season (Nov-Mar)	Off Peak (Apr-Oct)	Total Actual
Total Heating Degree Day (April 2013 - March 2014)	Actual	7,117	1,561	8,678
	Normal (20 yr) (1994-2013)	5,987	1,392	7,379
Total Annual Firm Sales (In Dekatherms (April 2013 - March 2014)				121,149,965
Average Annual Firm Customers (April 2013 - March 2014)				815,318
Use per Firm Customer				148.6
Projected Peak Day HDD (Typical) (-12 degrees F.)				77
Projected Design Day HDD (-25 degrees F.)				90

3. Historical and Projected Design Day and Peak Day Requirements

Heating Season	Firm Customers (January)	Design Day Dekatherms	Total Requirements plus Peak Shaving	Firm Peak Day Sendout
2014/2015	830,002	1,290,000	1,335,218	na
2013/2014	823,790	1,288,000	1,340,099	1,086,330
2012/2013	813,605	1,280,000	1,346,781	961,134
2011/2012	807,922	1,216,000	1,379,681	830,444
2010/2011	804,703	1,213,000	1,369,481	872,772
2009/2010	801,286	1,211,000	1,329,481	893,925

P = projected

	{1}	{3}	{7}	{8}	{9}	{10}
	10-1162 (Dec. 2010)	11-1078(April 2012)	12-864(Jan 2013)	13-578(Jan 2014)	FILED JULY 2014 (Nov 2014)	TOTAL
2007-08 Heating Season Services	Quantity (Dkt)	Quantity (Dkt)	Quantity (Dkt)	Quantity (Dkt)	Quantity (Dkt)	Change since Nov
	[TRADE SECRET DATA BEGINS...					{9}-{8}
NNG TF-12 Base Winter						
NNG TF-12 Base Summer						
NNG TF-12 Variable Winter						
NNG TF-12 Variable Summer						
NNG TF-12 -Growth-Winter						
NNG TF-12 Growth Summer						
NNG TF-5						
NNG TF-5 Growth						
TFX-5 mo (non-discounted)						
TFX-12 mo (non-discounted)						
TFX-A1-winter						
TFX-A1-summer						
TFX-A2-winter						
TFX-A2-summer						
TFX-B1-winter						
TFX-B1-summer						
TFX-B2-winter						
TFX-B2-summer						
TFX-C1-winter						
TFX-C1-summer						
TFX-C2-winter						
TFX-C2-summer						
2/						
					...TRADE SECRET DATA ENDS]	
Total NNG Demand Winter	979,172	979,172	978,872	981,657	987,009	5,352
Total NNG Demand Summer	551,883	551,883	551,673	553,531	555,729	2,198
	[TRADE SECRET DATA BEGINS					
Reservation - Waterville (151 days)						
Waterville - SBA						
SMS						
Viking						
FT-A - 12 month						
FT-A - 5 month (5,000 5 mo.)						
					...TRADE SECRET DATA ENDS]	
Total Viking Demand	76,809	76,809	56,809	56,809	56,809	0
Supply Demand						
	1/ [TRADE SECRET DATA BEGINS					
Seasonal Reservation						
Storage NGPL						
Storage Tennaska						
Storage BP Canada						
Storage Northern Natural FDD						
					...TRADE SECRET DATA ENDS]	
NOTE: Reflects Total volumes contracted and does not reflect any cost allocation.						
Released Capacity		0	(1,500)	0	0	0
Underground Storage	50,000	50,000	50,000	50,000	50,000	0
LNG Peak Shaving	72,000	72,000	72,000	72,000	72,000	0
Propane Peak Shaving	201,700	201,700	188,800	179,633	178,600	(1,033)
Total Peaking	323,700	323,700	310,800	301,633	300,600	(1,033)
Total Capacity	1,379,481	1,379,681	1,344,981	1,340,099	1,344,418	4,319
Total Peak-Shaving Capacity/On-line Storage	323,700	323,700	310,800	301,633	300,600	(1,033)
Total Annual Transportation	608,692	608,692	608,482	610,340	612,538	2,198
Total Seasonal Transportation	1,055,981	1,055,981	1,034,181	1,038,466	1,043,818	5,352
Peak Shaving as % of Total Capacity	23.5%	23.5%	23.1%	22.5%	22.4%	
Annual Transportation as % of Total Capacity	44.1%	44.1%	45.2%	45.5%	45.6%	
Seasonal Transportation as % of Total Capacity	76.5%	76.5%	76.9%	77.5%	77.6%	
Annual and Seasonal Transportation as % of Total Transportation	63.4%	63.4%	63.0%	63.0%	63.0%	

	Last Rate Case (G008/GR-08- 1075)	Last Demand Change (G008/M-13- 578) (01/2014)	Jun 2014 PGA	November 2014 PGA (M-14-___)	Change From Last Rate Case	Change From Last Demand Change	Percent Change (%) From Most Recent PGA	Change (\$) From Most Recent PGA
Residential								
Commodity Cost of Gas (WACOG) (4)	\$6.0690	\$4.7594	\$4.7509	\$4.7509	-21.72%	-0.18%	0.00%	\$0.0000
Demand Cost of Gas (1)	\$0.8401	\$0.7280	\$0.6624	\$0.7251	-13.69%	-0.40%	9.47%	\$0.0627
Commodity Margin (2) (3)	\$1.6637	\$1.7308	\$1.7595	\$1.7595	5.76%	1.66%	0.00%	\$0.0000
Total Cost of Gas	\$8.5728	\$7.2182	\$7.1728	\$7.2355	-15.60%	0.24%	0.87%	\$0.0627
Average Annual Usage (Dk)	100	100	100	100				
Average Annual Total Cost of Gas	\$857.28	\$721.82	\$717.28	\$723.55	-15.60%	0.24%	0.87%	\$6.27
Average Annual Total Demand Cost of Gas								\$6.27

	Last Rate Case (G008/GR-08- 1075)	Last Demand Change (G008/M-13- 578) (01/2014)	Jun 2014 PGA	November 2014 PGA (M-14-___)	Change From Last Rate Case	Change From Last Demand Change	Percent Change (%) From Most Recent PGA	Change (\$) From Most Recent PGA
Commercial/Industrial Firm - A								
Commodity Cost of Gas (WACOG)	\$6.0690	\$4.7594	\$4.7509	\$4.7509	-21.72%	-0.18%	0.00%	\$0.0000
Demand Cost of Gas (1)	\$0.8401	\$0.7280	\$0.6624	\$0.7251	-13.69%	-0.40%	9.47%	\$0.0627
Commodity Margin	\$1.4680	\$1.6159	\$1.3197	\$1.3197	-10.10%	-18.33%	0.00%	\$0.0000
Total Cost of Gas	\$8.3771	\$7.1033	\$6.7330	\$6.7957	-18.88%	-4.33%	0.93%	\$0.0627
Average Annual Usage (Dk)	80	80	80	80				
Average Annual Total Cost of Gas	\$670.17	\$568.26	\$538.64	\$543.66	-18.88%	-4.33%	0.93%	\$5.02
Average Annual Total Demand Cost of Gas								\$5.02

	Last Rate Case (G008/GR-08- 1075)	Last Demand Change (G008/M-13- 578) (01/2014)	Jun 2014 PGA	November 2014 PGA (M-14-___)	Change From Last Rate Case	Change From Last Demand Change	Percent Change (%) From Most Recent PGA	Change (\$) From Most Recent PGA
Commercial/Industrial Firm - B								
Commodity Cost of Gas (WACOG)	\$6.0690	\$4.7594	\$4.7509	\$4.7509	-21.72%	-0.18%	0.00%	\$0.0000
Demand Cost of Gas (1)	\$0.8401	\$0.7280	\$0.6624	\$0.7251	-13.69%	-0.40%	9.47%	\$0.0627
Commodity Margin	\$1.4422	\$1.4094	\$1.3689	\$1.3689	-5.08%	-2.87%	0.00%	\$0.0000
Total Cost of Gas	\$8.3513	\$6.8968	\$6.7822	\$6.8449	-18.04%	-0.75%	0.92%	\$0.0627
Average Annual Usage (Dk)	2,860	2,860	2,860	2,860				
Average Annual Total Cost of Gas	\$23,884.72	\$19,724.85	\$19,397.09	\$19,576.41	-18.04%	-0.75%	0.92%	\$179.32
Average Annual Total Demand Cost of Gas								\$179.32

	Last Rate Case (G008/GR-08- 1075)	Last Demand Change (G008/M-13- 578) (01/2014)	Jun 2014 PGA	November 2014 PGA (M-14-___)	Change From Last Rate Case	Change From Last Demand Change	Percent Change (%) From Most Recent PGA	Change (\$) From Most Recent PGA
Commercial/Industrial Firm - C								
Commodity Cost of Gas (WACOG)	\$6.0690	\$4.7594	\$4.7509	\$4.7509	-21.72%	-0.18%	0.00%	\$0.0000
Demand Cost of Gas (1)	\$0.8401	\$0.7280	\$0.6624	\$0.7251	-13.69%	-0.40%	9.47%	\$0.0627
Commodity Margin	\$1.3362	\$1.2698	\$1.3453	\$1.3453	0.68%	5.95%	0.00%	\$0.0000
Total Cost of Gas	\$8.2453	\$6.7572	\$6.7586	\$6.8213	-17.27%	0.95%	0.93%	\$0.0627
Average Annual Usage (Dk)	14,300	14,300	14,300	14,300				
Average Annual Total Cost of Gas	\$117,907.79	\$96,627.96	\$96,647.98	\$97,544.59	-17.27%	0.95%	0.93%	\$896.61
Average Annual Total Demand Cost of Gas								\$896.61

Summary	Commodity Change (\$/Dk)	Commodity Change (Percent)	Demand Change (\$/Dk)	Demand Change (Percent)	Total Change (\$/Dk)	Total Change (Percent)
Change from most recent PGA						
Customer Class						
Residential	\$0.0000	0.00%	\$0.0627	9.47%	\$6.27	0.87%
Commercial/Industrial Firm A	\$0.0000	0.00%	\$0.0627	9.47%	\$5.02	0.93%
Commercial/Industrial Firm B	\$0.0000	0.00%	\$0.0627	9.47%	\$179.32	0.92%
Commercial/Industrial Firm C	\$0.0000	0.00%	\$0.0627	9.47%	\$896.61	0.93%

- (1) Does not include Demand Smoothing
(2) Reflects Decoupling Factor and CCRA. Does not reflect GAP, Interim or GCR Factors.
(3) Reflects decrease in CCRA of (\$0.0767) per DT effective November 1, 2013 (Docket G-008/M-13-373)
(4) WACOG value in the Jan 2014 is Jan 2014 (Last Demand change)

<u>Date</u>	<u>Firm Thoughtput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>	<u>Nov</u>	<u>Dec</u>	<u>Feb</u>	<u>Mar</u>
11/01/08	191,197	50.0	792,994	0.241	15.0	225	1	0	0	0
11/02/08	130,783	56.6	792,994	0.165	8.4	71	1	0	0	0
11/03/08	95,116	64.5	792,994	0.120	0.5	0	1	0	0	0
11/04/08	90,315	64.6	792,994	0.114	0.4	0	1	0	0	0
11/05/08	100,231	60.1	792,994	0.126	4.9	24	1	0	0	0
11/06/08	198,174	43.3	792,994	0.250	21.7	471	1	0	0	0
11/07/08	312,796	35.3	792,994	0.394	29.7	882	1	0	0	0
11/08/08	396,461	30.2	792,994	0.500	34.8	1211	1	0	0	0
11/09/08	460,702	24.6	792,994	0.581	40.4	1632	1	0	0	0
11/10/08	428,652	27.6	792,994	0.541	37.4	1399	1	0	0	0
11/11/08	402,519	32.3	792,994	0.508	32.7	1069	1	0	0	0
11/12/08	348,893	36.4	792,994	0.440	28.6	818	1	0	0	0
11/13/08	322,133	38.1	792,994	0.406	26.9	724	1	0	0	0
11/14/08	366,055	34.5	792,994	0.462	30.5	930	1	0	0	0
11/15/08	402,996	28.6	792,994	0.508	36.4	1325	1	0	0	0
11/16/08	422,384	29.8	792,994	0.533	35.2	1239	1	0	0	0
11/17/08	499,631	23.3	792,994	0.630	41.7	1739	1	0	0	0
11/18/08	460,228	29.8	792,994	0.580	35.2	1239	1	0	0	0
11/19/08	460,446	29.8	792,994	0.581	35.2	1239	1	0	0	0
11/20/08	573,678	17.0	792,994	0.723	48.0	2304	1	0	0	0
11/21/08	533,785	20.3	792,994	0.673	44.7	1998	1	0	0	0
11/22/08	430,064	30.5	792,994	0.542	34.5	1190	1	0	0	0
11/23/08	407,706	31.1	792,994	0.514	33.9	1149	1	0	0	0
11/24/08	481,595	25.9	792,994	0.607	39.1	1529	1	0	0	0
11/25/08	479,032	24.8	792,994	0.604	40.2	1616	1	0	0	0
11/26/08	419,131	28.8	792,994	0.529	36.2	1310	1	0	0	0
11/27/08	403,072	32.3	792,994	0.508	32.7	1069	1	0	0	0
11/28/08	409,865	29.7	792,994	0.517	35.3	1246	1	0	0	0
11/29/08	391,966	31.8	792,994	0.494	33.2	1102	1	0	0	0
11/30/08	517,908	22.8	792,994	0.653	42.2	1781	1	0	0	0
12/01/08	557,280	19.5	795,388	0.701	45.5	2070	0	1	0	0
12/02/08	451,034	29.5	795,388	0.567	35.5	1260	0	1	0	0
12/03/08	569,348	16.8	795,388	0.716	48.2	2323	0	1	0	0
12/04/08	658,175	11.7	795,388	0.827	53.3	2841	0	1	0	0
12/05/08	565,860	22.2	795,388	0.711	42.8	1832	0	1	0	0
12/06/08	666,352	9.3	795,388	0.838	55.7	3102	0	1	0	0
12/07/08	660,905	14.4	795,388	0.831	50.6	2560	0	1	0	0
12/08/08	569,244	20.2	795,388	0.716	44.8	2007	0	1	0	0
12/09/08	642,617	10.4	795,388	0.808	54.6	2981	0	1	0	0
12/10/08	595,557	21.1	795,388	0.749	43.9	1927	0	1	0	0
12/11/08	673,876	9.0	795,388	0.847	56.0	3136	0	1	0	0
12/12/08	635,271	20.3	795,388	0.799	44.7	1998	0	1	0	0
12/13/08	402,149	35.6	795,388	0.506	29.4	864	0	1	0	0
12/14/08	695,997	9.0	795,388	0.875	56.0	3136	0	1	0	0
12/15/08	924,954	(7.6)	795,388	1.163	72.6	5271	0	1	0	0
12/16/08	830,170	1.8	795,388	1.044	63.2	3994	0	1	0	0
12/17/08	760,103	2.7	795,388	0.956	62.3	3881	0	1	0	0
12/18/08	658,923	14.2	795,388	0.828	50.8	2581	0	1	0	0
12/19/08	574,527	19.5	795,388	0.722	45.5	2070	0	1	0	0
12/20/08	798,744	(0.1)	795,388	1.004	65.1	4238	0	1	0	0
12/21/08	888,374	(3.5)	795,388	1.117	68.5	4692	0	1	0	0
12/22/08	810,391	1.5	795,388	1.019	63.5	4032	0	1	0	0
12/23/08	644,976	15.7	795,388	0.811	49.3	2430	0	1	0	0
12/24/08	751,913	1.5	795,388	0.945	63.5	4032	0	1	0	0
12/25/08	575,676	23.6	795,388	0.724	41.4	1714	0	1	0	0
12/26/08	421,904	34.8	795,388	0.530	30.2	912	0	1	0	0
12/27/08	601,350	16.3	795,388	0.756	48.7	2372	0	1	0	0
12/28/08	527,409	27.1	795,388	0.663	37.9	1436	0	1	0	0
12/29/08	567,913	18.7	795,388	0.714	46.3	2144	0	1	0	0
12/30/08	760,163	4.9	795,388	0.956	60.1	3612	0	1	0	0
12/31/08	735,176	9.2	795,388	0.924	55.8	3114	0	1	0	0
01/01/09	645,123	14.2	797,228	0.809	50.8	2581	0	0	0	0
01/02/09	679,153	11.6	797,228	0.852	53.4	2852	0	0	0	0
01/03/09	633,933	17.4	797,228	0.795	47.6	2266	0	0	0	0
01/04/09	814,351	0.0	797,228	1.021	65.0	4225	0	0	0	0

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>	<u>Nov</u>	<u>Dec</u>	<u>Feb</u>	<u>Mar</u>
01/05/09	624,977	17.9	797,228	0.784	47.1	2218	0	0	0	0
01/06/09	600,350	16.6	797,228	0.753	48.4	2343	0	0	0	0
01/07/09	750,994	4.7	797,228	0.942	60.3	3636	0	0	0	0
01/08/09	693,871	10.0	797,228	0.870	55.0	3025	0	0	0	0
01/09/09	677,361	12.5	797,228	0.850	52.5	2756	0	0	0	0
01/10/09	654,860	11.2	797,228	0.821	53.8	2894	0	0	0	0
01/11/09	683,730	9.5	797,228	0.858	55.5	3080	0	0	0	0
01/12/09	818,650	0.8	797,228	1.027	64.2	4122	0	0	0	0
01/13/09	893,158	(6.0)	797,228	1.120	71.0	5041	0	0	0	0
01/14/09	974,814	(12.0)	797,228	1.223	77.0	5929	0	0	0	0
01/15/09	1,024,764	(14.8)	797,228	1.285	79.8	6368	0	0	0	0
01/16/09	814,243	6.3	797,228	1.021	58.7	3446	0	0	0	0
01/17/09	658,347	14.8	797,228	0.826	50.2	2520	0	0	0	0
01/18/09	625,276	15.2	797,228	0.784	49.8	2480	0	0	0	0
01/19/09	625,775	16.7	797,228	0.785	48.3	2333	0	0	0	0
01/20/09	588,831	17.5	797,228	0.739	47.5	2256	0	0	0	0
01/21/09	557,110	19.3	797,228	0.699	45.7	2088	0	0	0	0
01/22/09	560,285	19.8	797,228	0.703	45.2	2043	0	0	0	0
01/23/09	808,326	(0.5)	797,228	1.014	65.5	4290	0	0	0	0
01/24/09	869,305	(3.5)	797,228	1.090	68.5	4692	0	0	0	0
01/25/09	846,107	(0.6)	797,228	1.061	65.6	4303	0	0	0	0
01/26/09	859,025	0.1	797,228	1.078	64.9	4212	0	0	0	0
01/27/09	782,917	3.6	797,228	0.982	61.4	3770	0	0	0	0
01/28/09	677,214	13.6	797,228	0.849	51.4	2642	0	0	0	0
01/29/09	744,252	4.5	797,228	0.934	60.5	3660	0	0	0	0
01/30/09	629,523	17.5	797,228	0.790	47.5	2256	0	0	0	0
01/31/09	431,156	33.5	797,228	0.541	31.5	992	0	0	0	0
02/01/09	543,983	22.1	798,298	0.681	42.9	1840	0	0	1	0
02/02/09	803,480	1.7	798,298	1.006	63.3	4007	0	0	1	0
02/03/09	820,676	1.0	798,298	1.028	64.0	4096	0	0	1	0
02/04/09	712,173	11.3	798,298	0.892	53.7	2884	0	0	1	0
02/05/09	518,333	23.4	798,298	0.649	41.6	1731	0	0	1	0
02/06/09	416,750	34.6	798,298	0.522	30.4	924	0	0	1	0
02/07/09	492,773	25.3	798,298	0.617	39.7	1576	0	0	1	0
02/08/09	434,833	31.7	798,298	0.545	33.3	1109	0	0	1	0
02/09/09	384,017	40.8	798,298	0.481	24.2	586	0	0	1	0
02/10/09	412,059	36.1	798,298	0.516	28.9	835	0	0	1	0
02/11/09	455,829	31.8	798,298	0.571	33.2	1102	0	0	1	0
02/12/09	534,989	23.8	798,298	0.670	41.2	1697	0	0	1	0
02/13/09	588,535	18.6	798,298	0.737	46.4	2153	0	0	1	0
02/14/09	625,963	14.0	798,298	0.784	51.0	2601	0	0	1	0
02/15/09	571,418	20.6	798,298	0.716	44.4	1971	0	0	1	0
02/16/09	469,830	31.0	798,298	0.589	34.0	1156	0	0	1	0
02/17/09	402,809	32.6	798,298	0.505	32.4	1050	0	0	1	0
02/18/09	645,368	12.1	798,298	0.808	52.9	2798	0	0	1	0
02/19/09	655,286	12.2	798,298	0.821	52.8	2788	0	0	1	0
02/20/09	556,611	20.8	798,298	0.697	44.2	1954	0	0	1	0
02/21/09	649,377	10.7	798,298	0.813	54.3	2948	0	0	1	0
02/22/09	679,295	10.0	798,298	0.851	55.0	3025	0	0	1	0
02/23/09	586,069	18.8	798,298	0.734	46.2	2134	0	0	1	0
02/24/09	384,607	35.8	798,298	0.482	29.2	853	0	0	1	0
02/25/09	449,145	28.2	798,298	0.563	36.8	1354	0	0	1	0
02/26/09	645,159	15.9	798,298	0.808	49.1	2411	0	0	1	0
02/27/09	684,101	6.5	798,298	0.857	58.5	3422	0	0	1	0
02/28/09	680,854	9.0	798,298	0.853	56.0	3136	0	0	1	0
03/01/09	662,333	10.3	798,542	0.829	54.7	2992	0	0	0	1
03/02/09	597,015	16.0	798,542	0.748	49.0	2401	0	0	0	1
03/03/09	543,313	24.8	798,542	0.680	40.2	1616	0	0	0	1
03/04/09	384,188	35.9	798,542	0.481	29.1	847	0	0	0	1
03/05/09	367,952	37.5	798,542	0.461	27.5	756	0	0	0	1
03/06/09	357,390	35.0	798,542	0.448	30.0	900	0	0	0	1
03/07/09	427,428	29.7	798,542	0.535	35.3	1246	0	0	0	1
03/08/09	464,647	29.8	798,542	0.582	35.2	1239	0	0	0	1
03/09/09	420,418	34.1	798,542	0.526	30.9	955	0	0	0	1
03/10/09	646,744	14.5	798,542	0.810	50.5	2550	0	0	0	1

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>	<u>Nov</u>	<u>Dec</u>	<u>Feb</u>	<u>Mar</u>
03/11/09	805,712	1.0	798,542	1.009	64.0	4096	0	0	0	1
03/12/09	653,717	13.9	798,542	0.819	51.1	2611	0	0	0	1
03/13/09	428,566	32.1	798,542	0.537	32.9	1082	0	0	0	1
03/14/09	318,050	40.8	798,542	0.398	24.2	586	0	0	0	1
03/15/09	260,688	45.8	798,542	0.326	19.2	369	0	0	0	1
03/16/09	193,069	52.6	798,542	0.242	12.4	154	0	0	0	1
03/17/09	259,916	43.3	798,542	0.325	21.7	471	0	0	0	1
03/18/09	319,256	36.6	798,542	0.400	28.4	807	0	0	0	1
03/19/09	383,211	31.4	798,542	0.480	33.6	1129	0	0	0	1
03/20/09	350,329	39.2	798,542	0.439	25.8	666	0	0	0	1
03/21/09	221,578	49.4	798,542	0.277	15.6	243	0	0	0	1
03/22/09	231,795	48.7	798,542	0.290	16.3	266	0	0	0	1
03/23/09	282,111	48.0	798,542	0.353	17.0	289	0	0	0	1
03/24/09	291,566	43.3	798,542	0.365	21.7	471	0	0	0	1
03/25/09	456,338	30.7	798,542	0.571	34.3	1176	0	0	0	1
03/26/09	513,726	24.3	798,542	0.643	40.7	1656	0	0	0	1
03/27/09	462,482	26.5	798,542	0.579	38.5	1482	0	0	0	1
03/28/09	391,259	30.9	798,542	0.490	34.1	1163	0	0	0	1
03/29/09	348,492	37.0	798,542	0.436	28.0	784	0	0	0	1
03/30/09	363,186	40.7	798,542	0.455	24.3	590	0	0	0	1
03/31/09	369,651	37.1	798,542	0.463	27.9	778	0	0	0	1
11/01/09	241,190	46.1	796,751	0.303	18.9	357	1	0	0	0
11/02/09	317,832	36.8	796,751	0.399	28.2	795	1	0	0	0
11/03/09	317,119	39.2	796,751	0.398	25.8	666	1	0	0	0
11/04/09	348,006	36.1	796,751	0.437	28.9	835	1	0	0	0
11/05/09	234,381	47.3	796,751	0.294	17.7	313	1	0	0	0
11/06/09	157,500	54.8	796,751	0.198	10.2	104	1	0	0	0
11/07/09	181,242	51.0	796,751	0.227	14.0	196	1	0	0	0
11/08/09	195,689	51.0	796,751	0.246	14.0	196	1	0	0	0
11/09/09	238,466	45.1	796,751	0.299	19.9	396	1	0	0	0
11/10/09	219,069	48.2	796,751	0.275	16.8	282	1	0	0	0
11/11/09	204,416	49.3	796,751	0.257	15.7	246	1	0	0	0
11/12/09	207,140	51.7	796,751	0.260	13.3	177	1	0	0	0
11/13/09	208,213	47.1	796,751	0.261	17.9	320	1	0	0	0
11/14/09	314,355	37.1	796,751	0.395	27.9	778	1	0	0	0
11/15/09	338,764	35.6	796,751	0.425	29.4	864	1	0	0	0
11/16/09	331,963	37.1	796,751	0.417	27.9	778	1	0	0	0
11/17/09	339,451	37.0	796,751	0.426	28.0	784	1	0	0	0
11/18/09	260,295	45.0	796,751	0.327	20.0	400	1	0	0	0
11/19/09	262,013	44.3	796,751	0.329	20.7	428	1	0	0	0
11/20/09	276,012	40.8	796,751	0.346	24.2	586	1	0	0	0
11/21/09	249,705	45.5	796,751	0.313	19.5	380	1	0	0	0
11/22/09	202,648	50.7	796,751	0.254	14.3	204	1	0	0	0
11/23/09	220,963	47.1	796,751	0.277	17.9	320	1	0	0	0
11/24/09	258,246	43.4	796,751	0.324	21.6	467	1	0	0	0
11/25/09	354,354	35.5	796,751	0.445	29.5	870	1	0	0	0
11/26/09	407,688	28.6	796,751	0.512	36.4	1325	1	0	0	0
11/27/09	356,533	33.6	796,751	0.447	31.4	986	1	0	0	0
11/28/09	319,324	37.1	796,751	0.401	27.9	778	1	0	0	0
11/29/09	382,006	33.9	796,751	0.479	31.1	967	1	0	0	0
11/30/09	358,119	36.1	796,751	0.449	28.9	835	1	0	0	0
12/01/09	348,413	36.7	799,549	0.436	28.3	801	0	1	0	0
12/02/09	446,447	28.0	799,549	0.558	37.0	1369	0	1	0	0
12/03/09	545,379	20.3	799,549	0.682	44.7	1998	0	1	0	0
12/04/09	581,475	17.8	799,549	0.727	47.2	2228	0	1	0	0
12/05/09	549,354	19.8	799,549	0.687	45.2	2043	0	1	0	0
12/06/09	570,552	18.2	799,549	0.714	46.8	2190	0	1	0	0
12/07/09	570,421	20.0	799,549	0.713	45.0	2025	0	1	0	0
12/08/09	647,292	15.8	799,549	0.810	49.2	2421	0	1	0	0
12/09/09	779,454	3.3	799,549	0.975	61.7	3807	0	1	0	0
12/10/09	799,463	0.9	799,549	1.000	64.1	4109	0	1	0	0
12/11/09	672,442	10.0	799,549	0.841	55.0	3025	0	1	0	0
12/12/09	536,208	23.3	799,549	0.671	41.7	1739	0	1	0	0
12/13/09	659,459	10.3	799,549	0.825	54.7	2992	0	1	0	0
12/14/09	765,263	3.9	799,549	0.957	61.1	3733	0	1	0	0

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>	<u>Nov</u>	<u>Dec</u>	<u>Feb</u>	<u>Mar</u>
12/15/09	798,278	1.3	799,549	0.998	63.7	4058	0	1	0	0
12/16/09	691,158	9.8	799,549	0.864	55.2	3047	0	1	0	0
12/17/09	610,386	16.9	799,549	0.763	48.1	2314	0	1	0	0
12/18/09	534,141	21.8	799,549	0.668	43.2	1866	0	1	0	0
12/19/09	534,164	20.7	799,549	0.668	44.3	1962	0	1	0	0
12/20/09	532,948	20.8	799,549	0.667	44.2	1954	0	1	0	0
12/21/09	544,373	21.6	799,549	0.681	43.4	1884	0	1	0	0
12/22/09	524,507	25.8	799,549	0.656	39.2	1537	0	1	0	0
12/23/09	505,429	27.3	799,549	0.632	37.7	1421	0	1	0	0
12/24/09	432,560	32.2	799,549	0.541	32.8	1076	0	1	0	0
12/25/09	431,447	28.3	799,549	0.540	36.7	1347	0	1	0	0
12/26/09	548,732	15.7	799,549	0.686	49.3	2430	0	1	0	0
12/27/09	540,113	22.8	799,549	0.676	42.2	1781	0	1	0	0
12/28/09	629,234	11.2	799,549	0.787	53.8	2894	0	1	0	0
12/29/09	656,592	12.0	799,549	0.821	53.0	2809	0	1	0	0
12/30/09	648,416	13.1	799,549	0.811	51.9	2694	0	1	0	0
12/31/09	722,513	5.0	799,549	0.904	60.0	3600	0	1	0	0
01/01/10	825,327	(4.5)	801,286	1.030	69.5	4830	0	0	0	0
01/02/10	893,925	(7.3)	801,286	1.116	72.3	5227	0	0	0	0
01/03/10	872,584	(2.3)	801,286	1.089	67.3	4529	0	0	0	0
01/04/10	852,431	(1.6)	801,286	1.064	66.6	4436	0	0	0	0
01/05/10	801,956	2.0	801,286	1.001	63.0	3969	0	0	0	0
01/06/10	732,312	11.5	801,286	0.914	53.5	2862	0	0	0	0
01/07/10	800,105	5.1	801,286	0.999	59.9	3588	0	0	0	0
01/08/10	806,975	(2.8)	801,286	1.007	67.8	4597	0	0	0	0
01/09/10	813,444	0.4	801,286	1.015	64.6	4173	0	0	0	0
01/10/10	685,701	13.4	801,286	0.856	51.6	2663	0	0	0	0
01/11/10	659,590	11.8	801,286	0.823	53.2	2830	0	0	0	0
01/12/10	604,941	18.5	801,286	0.755	46.5	2162	0	0	0	0
01/13/10	531,388	22.0	801,286	0.663	43.0	1849	0	0	0	0
01/14/10	528,607	25.1	801,286	0.660	39.9	1592	0	0	0	0
01/15/10	538,175	22.2	801,286	0.672	42.8	1832	0	0	0	0
01/16/10	471,383	27.2	801,286	0.588	37.8	1429	0	0	0	0
01/17/10	479,008	24.5	801,286	0.598	40.5	1640	0	0	0	0
01/18/10	509,261	23.3	801,286	0.636	41.7	1739	0	0	0	0
01/19/10	569,794	21.0	801,286	0.711	44.0	1936	0	0	0	0
01/20/10	518,961	26.0	801,286	0.648	39.0	1521	0	0	0	0
01/21/10	482,411	28.7	801,286	0.602	36.3	1318	0	0	0	0
01/22/10	451,785	32.1	801,286	0.564	32.9	1082	0	0	0	0
01/23/10	403,755	34.5	801,286	0.504	30.5	930	0	0	0	0
01/24/10	459,888	31.0	801,286	0.574	34.0	1156	0	0	0	0
01/25/10	630,340	16.0	801,286	0.787	49.0	2401	0	0	0	0
01/26/10	748,825	5.4	801,286	0.935	59.6	3552	0	0	0	0
01/27/10	789,360	4.2	801,286	0.985	60.8	3697	0	0	0	0
01/28/10	802,471	0.7	801,286	1.001	64.3	4134	0	0	0	0
01/29/10	749,051	4.9	801,286	0.935	60.1	3612	0	0	0	0
01/30/10	677,616	10.8	801,286	0.846	54.2	2938	0	0	0	0
01/31/10	695,122	10.4	801,286	0.868	54.6	2981	0	0	0	0
02/01/10	674,473	14.5	801,750	0.841	50.5	2550	0	0	1	0
02/02/10	638,536	11.3	801,750	0.796	53.7	2884	0	0	1	0
02/03/10	589,188	18.8	801,750	0.735	46.2	2134	0	0	1	0
02/04/10	502,747	27.8	801,750	0.627	37.2	1384	0	0	1	0
02/05/10	465,734	28.7	801,750	0.581	36.3	1318	0	0	1	0
02/06/10	521,533	20.8	801,750	0.650	44.2	1954	0	0	1	0
02/07/10	543,126	21.8	801,750	0.677	43.2	1866	0	0	1	0
02/08/10	552,019	23.5	801,750	0.689	41.5	1722	0	0	1	0
02/09/10	587,137	16.9	801,750	0.732	48.1	2314	0	0	1	0
02/10/10	626,976	11.0	801,750	0.782	54.0	2916	0	0	1	0
02/11/10	596,800	13.5	801,750	0.744	51.5	2652	0	0	1	0
02/12/10	560,729	15.3	801,750	0.699	49.7	2470	0	0	1	0
02/13/10	596,385	14.5	801,750	0.744	50.5	2550	0	0	1	0
02/14/10	557,730	21.8	801,750	0.696	43.2	1866	0	0	1	0
02/15/10	513,027	24.8	801,750	0.640	40.2	1616	0	0	1	0
02/16/10	487,093	26.0	801,750	0.608	39.0	1521	0	0	1	0
02/17/10	493,138	23.0	801,750	0.615	42.0	1764	0	0	1	0

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02/18/10	513,339	20.3	801,750	0.640	44.7	1998	0	0	1	0
02/19/10	493,329	22.5	801,750	0.615	42.5	1806	0	0	1	0
02/20/10	488,125	23.1	801,750	0.609	41.9	1756	0	0	1	0
02/21/10	498,150	23.5	801,750	0.621	41.5	1722	0	0	1	0
02/22/10	525,774	19.8	801,750	0.656	45.2	2043	0	0	1	0
02/23/10	643,249	12.9	801,750	0.802	52.1	2714	0	0	1	0
02/24/10	653,301	11.3	801,750	0.815	53.7	2884	0	0	1	0
02/25/10	588,394	16.5	801,750	0.734	48.5	2352	0	0	1	0
02/26/10	524,013	22.2	801,750	0.654	42.8	1832	0	0	1	0
02/27/10	468,582	27.1	801,750	0.584	37.9	1436	0	0	1	0
02/28/10	444,782	29.3	801,750	0.555	35.7	1274	0	0	1	0
03/01/10	428,133	28.7	801,298	0.534	36.3	1318	0	0	0	1
03/02/10	404,152	30.9	801,298	0.504	34.1	1163	0	0	0	1
03/03/10	410,987	30.0	801,298	0.513	35.0	1225	0	0	0	1
03/04/10	387,182	30.4	801,298	0.483	34.6	1197	0	0	0	1
03/05/10	367,482	32.7	801,298	0.459	32.3	1043	0	0	0	1
03/06/10	339,359	37.1	801,298	0.424	27.9	778	0	0	0	1
03/07/10	317,976	39.3	801,298	0.397	25.7	660	0	0	0	1
03/08/10	376,626	34.7	801,298	0.470	30.3	918	0	0	0	1
03/09/10	369,305	37.8	801,298	0.461	27.2	740	0	0	0	1
03/10/10	353,664	38.2	801,298	0.441	26.8	718	0	0	0	1
03/11/10	319,424	43.0	801,298	0.399	22.0	484	0	0	0	1
03/12/10	319,635	40.0	801,298	0.399	25.0	625	0	0	0	1
03/13/10	307,976	42.3	801,298	0.384	22.7	515	0	0	0	1
03/14/10	219,105	51.3	801,298	0.273	13.7	188	0	0	0	1
03/15/10	225,095	47.3	801,298	0.281	17.7	313	0	0	0	1
03/16/10	292,083	42.4	801,298	0.365	22.6	511	0	0	0	1
03/17/10	224,684	46.9	801,298	0.280	18.1	328	0	0	0	1
03/18/10	212,456	48.3	801,298	0.265	16.7	279	0	0	0	1
03/19/10	435,544	29.5	801,298	0.544	35.5	1260	0	0	0	1
03/20/10	387,253	30.5	801,298	0.483	34.5	1190	0	0	0	1
03/21/10	314,485	39.3	801,298	0.392	25.7	660	0	0	0	1
03/22/10	269,679	45.1	801,298	0.337	19.9	396	0	0	0	1
03/23/10	230,244	46.8	801,298	0.287	18.2	331	0	0	0	1
03/24/10	262,178	40.9	801,298	0.327	24.1	581	0	0	0	1
03/25/10	378,501	30.4	801,298	0.472	34.6	1197	0	0	0	1
03/26/10	274,984	43.7	801,298	0.343	21.3	454	0	0	0	1
03/27/10	256,482	44.2	801,298	0.320	20.8	433	0	0	0	1
03/28/10	265,793	42.4	801,298	0.332	22.6	511	0	0	0	1
03/29/10	190,926	49.2	801,298	0.238	15.8	250	0	0	0	1
03/30/10	118,963	63.4	801,298	0.148	1.6	3	0	0	0	1
03/31/10	109,399	61.2	801,298	0.137	3.8	14	0	0	0	1
11/01/10	258,034	42.6	801,402	0.322	22.4	502	1	0	0	0
11/02/10	201,168	49.8	801,402	0.251	15.2	231	1	0	0	0
11/03/10	210,523	47.0	801,402	0.263	18.0	324	1	0	0	0
11/04/10	302,336	36.9	801,402	0.377	28.1	790	1	0	0	0
11/05/10	300,807	37.8	801,402	0.375	27.2	740	1	0	0	0
11/06/10	234,346	47.3	801,402	0.292	17.7	313	1	0	0	0
11/07/10	177,852	50.5	801,402	0.222	14.5	210	1	0	0	0
11/08/10	160,859	51.8	801,402	0.201	13.2	174	1	0	0	0
11/09/10	124,685	58.1	801,402	0.156	6.9	48	1	0	0	0
11/10/10	147,476	51.5	801,402	0.184	13.5	182	1	0	0	0
11/11/10	229,789	43.8	801,402	0.287	21.2	449	1	0	0	0
11/12/10	301,753	38.5	801,402	0.377	26.5	702	1	0	0	0
11/13/10	367,170	33.7	801,402	0.458	31.3	980	1	0	0	0
11/14/10	374,955	32.2	801,402	0.468	32.8	1076	1	0	0	0
11/15/10	357,511	33.5	801,402	0.446	31.5	992	1	0	0	0
11/16/10	376,120	33.6	801,402	0.469	31.4	986	1	0	0	0
11/17/10	382,075	31.9	801,402	0.477	33.1	1096	1	0	0	0
11/18/10	421,609	31.0	801,402	0.526	34.0	1156	1	0	0	0
11/19/10	429,069	27.0	801,402	0.535	38.0	1444	1	0	0	0
11/20/10	486,637	26.2	801,402	0.607	38.8	1505	1	0	0	0
11/21/10	416,247	32.0	801,402	0.519	33.0	1089	1	0	0	0
11/22/10	551,885	19.7	801,402	0.689	45.3	2052	1	0	0	0
11/23/10	547,095	20.9	801,402	0.683	44.1	1945	1	0	0	0

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11/24/10	507,952	24.5	801,402	0.634	40.5	1640	1	0	0	0
11/25/10	623,857	12.0	801,402	0.778	53.0	2809	1	0	0	0
11/26/10	568,142	17.5	801,402	0.709	47.5	2256	1	0	0	0
11/27/10	486,560	25.8	801,402	0.607	39.2	1537	1	0	0	0
11/28/10	363,320	41.0	801,402	0.453	24.0	576	1	0	0	0
11/29/10	393,214	34.9	801,402	0.491	30.1	906	1	0	0	0
11/30/10	584,808	19.1	801,402	0.730	45.9	2107	1	0	0	0
12/01/10	594,995	16.9	803,510	0.740	48.1	2314	0	1	0	0
12/02/10	626,714	13.6	803,510	0.780	51.4	2642	0	1	0	0
12/03/10	608,056	18.3	803,510	0.757	46.7	2181	0	1	0	0
12/04/10	589,613	15.4	803,510	0.734	49.6	2460	0	1	0	0
12/05/10	627,140	15.6	803,510	0.781	49.4	2440	0	1	0	0
12/06/10	597,204	16.0	803,510	0.743	49.0	2401	0	1	0	0
12/07/10	645,849	9.5	803,510	0.804	55.5	3080	0	1	0	0
12/08/10	630,836	14.4	803,510	0.785	50.6	2560	0	1	0	0
12/09/10	518,425	25.2	803,510	0.645	39.8	1584	0	1	0	0
12/10/10	540,872	21.3	803,510	0.673	43.7	1910	0	1	0	0
12/11/10	693,401	11.3	803,510	0.863	53.7	2884	0	1	0	0
12/12/10	788,154	0.8	803,510	0.981	64.2	4122	0	1	0	0
12/13/10	784,393	0.0	803,510	0.976	65.0	4225	0	1	0	0
12/14/10	717,791	7.0	803,510	0.893	58.0	3364	0	1	0	0
12/15/10	629,348	15.9	803,510	0.783	49.1	2411	0	1	0	0
12/16/10	628,649	14.6	803,510	0.782	50.4	2540	0	1	0	0
12/17/10	665,710	11.3	803,510	0.829	53.7	2884	0	1	0	0
12/18/10	666,298	11.0	803,510	0.829	54.0	2916	0	1	0	0
12/19/10	646,549	12.3	803,510	0.805	52.7	2777	0	1	0	0
12/20/10	555,799	24.4	803,510	0.692	40.6	1648	0	1	0	0
12/21/10	515,878	25.7	803,510	0.642	39.3	1544	0	1	0	0
12/22/10	470,300	28.4	803,510	0.585	36.6	1340	0	1	0	0
12/23/10	493,917	24.6	803,510	0.615	40.4	1632	0	1	0	0
12/24/10	504,526	22.3	803,510	0.628	42.7	1823	0	1	0	0
12/25/10	571,697	15.2	803,510	0.711	49.8	2480	0	1	0	0
12/26/10	582,092	14.6	803,510	0.724	50.4	2540	0	1	0	0
12/27/10	595,956	17.3	803,510	0.742	47.7	2275	0	1	0	0
12/28/10	481,616	28.0	803,510	0.599	37.0	1369	0	1	0	0
12/29/10	400,820	34.6	803,510	0.499	30.4	924	0	1	0	0
12/30/10	447,557	27.5	803,510	0.557	37.5	1406	0	1	0	0
12/31/10	653,373	12.9	803,510	0.813	52.1	2714	0	1	0	0
01/01/11	774,584	4.8	804,703	0.963	60.2	3624	0	0	0	0
01/02/11	666,166	13.6	804,703	0.828	51.4	2642	0	0	0	0
01/03/11	679,585	10.0	804,703	0.845	55.0	3025	0	0	0	0
01/04/11	717,886	6.7	804,703	0.892	58.3	3399	0	0	0	0
01/05/11	620,929	16.2	804,703	0.772	48.8	2381	0	0	0	0
01/06/11	620,550	14.0	804,703	0.771	51.0	2601	0	0	0	0
01/07/11	723,159	9.0	804,703	0.899	56.0	3136	0	0	0	0
01/08/11	745,228	4.1	804,703	0.926	60.9	3709	0	0	0	0
01/09/11	680,517	12.6	804,703	0.846	52.4	2746	0	0	0	0
01/10/11	606,673	19.5	804,703	0.754	45.5	2070	0	0	0	0
01/11/11	597,357	17.7	804,703	0.742	47.3	2237	0	0	0	0
01/12/11	665,398	8.8	804,703	0.827	56.2	3158	0	0	0	0
01/13/11	664,889	13.8	804,703	0.826	51.2	2621	0	0	0	0
01/14/11	628,386	14.5	804,703	0.781	50.5	2550	0	0	0	0
01/15/11	686,243	7.5	804,703	0.853	57.5	3306	0	0	0	0
01/16/11	680,168	13.7	804,703	0.845	51.3	2632	0	0	0	0
01/17/11	611,865	18.5	804,703	0.760	46.5	2162	0	0	0	0
01/18/11	695,229	7.9	804,703	0.864	57.1	3260	0	0	0	0
01/19/11	746,203	3.6	804,703	0.927	61.4	3770	0	0	0	0
01/20/11	872,772	(5.1)	804,703	1.085	70.1	4914	0	0	0	0
01/21/11	836,732	0.1	804,703	1.040	64.9	4212	0	0	0	0
01/22/11	820,329	(1.2)	804,703	1.019	66.2	4382	0	0	0	0
01/23/11	755,919	10.1	804,703	0.939	54.9	3014	0	0	0	0
01/24/11	611,033	20.2	804,703	0.759	44.8	2007	0	0	0	0
01/25/11	606,062	16.0	804,703	0.753	49.0	2401	0	0	0	0
01/26/11	531,098	22.1	804,703	0.660	42.9	1840	0	0	0	0
01/27/11	498,499	25.3	804,703	0.619	39.7	1576	0	0	0	0

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>	<u>Nov</u>	<u>Dec</u>	<u>Feb</u>	<u>Mar</u>
01/28/11	479,942	28.7	804,703	0.596	36.3	1318	0	0	0	0
01/29/11	578,763	19.1	804,703	0.719	45.9	2107	0	0	0	0
01/30/11	587,441	18.9	804,703	0.730	46.1	2125	0	0	0	0
01/31/11	639,576	14.4	804,703	0.795	50.6	2560	0	0	0	0
02/01/11	744,324	7.3	805,101	0.925	57.7	3329	0	0	1	0
02/02/11	762,354	3.0	805,101	0.947	62.0	3844	0	0	1	0
02/03/11	616,457	14.3	805,101	0.766	50.7	2570	0	0	1	0
02/04/11	497,859	24.0	805,101	0.618	41.0	1681	0	0	1	0
02/05/11	494,504	25.9	805,101	0.614	39.1	1529	0	0	1	0
02/06/11	576,379	22.6	805,101	0.716	42.4	1798	0	0	1	0
02/07/11	823,808	1.5	805,101	1.023	63.5	4032	0	0	1	0
02/08/11	886,803	(1.1)	805,101	1.101	66.1	4369	0	0	1	0
02/09/11	829,975	(2.1)	805,101	1.031	67.1	4502	0	0	1	0
02/10/11	721,898	0.9	805,101	0.897	64.1	4109	0	0	1	0
02/11/11	476,807	23.2	805,101	0.592	41.8	1747	0	0	1	0
02/12/11	380,976	32.6	805,101	0.473	32.4	1050	0	0	1	0
02/13/11	336,670	40.8	805,101	0.418	24.2	586	0	0	1	0
02/14/11	388,915	34.9	805,101	0.483	30.1	906	0	0	1	0
02/15/11	377,896	35.1	805,101	0.469	29.9	894	0	0	1	0
02/16/11	257,834	41.6	805,101	0.320	23.4	548	0	0	1	0
02/17/11	364,980	33.4	805,101	0.453	31.6	999	0	0	1	0
02/18/11	527,055	17.8	805,101	0.655	47.2	2228	0	0	1	0
02/19/11	494,969	24.9	805,101	0.615	40.1	1608	0	0	1	0
02/20/11	566,214	24.6	805,101	0.703	40.4	1632	0	0	1	0
02/21/11	683,693	17.2	805,101	0.849	47.8	2285	0	0	1	0
02/22/11	579,082	24.3	805,101	0.719	40.7	1656	0	0	1	0
02/23/11	437,681	28.9	805,101	0.544	36.1	1303	0	0	1	0
02/24/11	578,876	16.7	805,101	0.719	48.3	2333	0	0	1	0
02/25/11	789,768	4.2	805,101	0.981	60.8	3697	0	0	1	0
02/26/11	789,859	4.8	805,101	0.981	60.2	3624	0	0	1	0
02/27/11	665,131	17.3	805,101	0.826	47.7	2275	0	0	1	0
02/28/11	535,723	21.5	805,101	0.665	43.5	1892	0	0	1	0
03/01/11	603,824	15.1	804,904	0.750	49.9	2490	0	0	0	1
03/02/11	652,981	14.5	804,904	0.811	50.5	2550	0	0	0	1
03/03/11	498,773	29.2	804,904	0.620	35.8	1282	0	0	0	1
03/04/11	536,834	24.1	804,904	0.667	40.9	1673	0	0	0	1
03/05/11	532,603	20.2	804,904	0.662	44.8	2007	0	0	0	1
03/06/11	493,494	26.6	804,904	0.613	38.4	1475	0	0	0	1
03/07/11	483,004	27.9	804,904	0.600	37.1	1376	0	0	0	1
03/08/11	405,703	33.9	804,904	0.504	31.1	967	0	0	0	1
03/09/11	423,275	31.9	804,904	0.526	33.1	1096	0	0	0	1
03/10/11	463,557	25.4	804,904	0.576	39.6	1568	0	0	0	1
03/11/11	434,343	31.1	804,904	0.540	33.9	1149	0	0	0	1
03/12/11	520,471	18.1	804,904	0.647	46.9	2200	0	0	0	1
03/13/11	535,778	22.0	804,904	0.666	43.0	1849	0	0	0	1
03/14/11	430,306	32.5	804,904	0.535	32.5	1056	0	0	0	1
03/15/11	360,056	36.2	804,904	0.447	28.8	829	0	0	0	1
03/16/11	270,398	46.3	804,904	0.336	18.7	350	0	0	0	1
03/17/11	284,705	42.5	804,904	0.354	22.5	506	0	0	0	1
03/18/11	369,713	31.8	804,904	0.459	33.2	1102	0	0	0	1
03/19/11	300,552	42.7	804,904	0.373	22.3	497	0	0	0	1
03/20/11	337,078	40.2	804,904	0.419	24.8	615	0	0	0	1
03/21/11	337,983	39.2	804,904	0.420	25.8	666	0	0	0	1
03/22/11	454,435	33.5	804,904	0.565	31.5	992	0	0	0	1
03/23/11	517,662	22.4	804,904	0.643	42.6	1815	0	0	0	1
03/24/11	455,535	25.5	804,904	0.566	39.5	1560	0	0	0	1
03/25/11	449,620	24.9	804,904	0.559	40.1	1608	0	0	0	1
03/26/11	470,741	24.0	804,904	0.585	41.0	1681	0	0	0	1
03/27/11	446,528	26.5	804,904	0.555	38.5	1482	0	0	0	1
03/28/11	414,277	29.0	804,904	0.515	36.0	1296	0	0	0	1
03/29/11	380,544	32.6	804,904	0.473	32.4	1050	0	0	0	1
03/30/11	317,637	38.1	804,904	0.395	26.9	724	0	0	0	1
03/31/11	297,293	40.9	804,904	0.369	24.1	581	0	0	0	1
11/01/11	196,244	49.1	804,484	0.244	15.9	253	1	0	0	0
11/02/11	264,826	42.0	804,484	0.329	23.0	529	1	0	0	0

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11/03/11	278,061	40.2	804,484	0.346	24.8	615	1	0	0	0
11/04/11	243,998	45.1	804,484	0.303	19.9	396	1	0	0	0
11/05/11	199,215	50.4	804,484	0.248	14.6	213	1	0	0	0
11/06/11	245,977	45.3	804,484	0.306	19.7	388	1	0	0	0
11/07/11	266,585	41.5	804,484	0.331	23.5	552	1	0	0	0
11/08/11	279,347	41.6	804,484	0.347	23.4	548	1	0	0	0
11/09/11	299,481	39.8	804,484	0.372	25.2	635	1	0	0	0
11/10/11	368,962	34.8	804,484	0.459	30.2	912	1	0	0	0
11/11/11	275,045	41.3	804,484	0.342	23.7	562	1	0	0	0
11/12/11	199,341	51.8	804,484	0.248	13.2	174	1	0	0	0
11/13/11	280,192	42.4	804,484	0.348	22.6	511	1	0	0	0
11/14/11	277,740	41.8	804,484	0.345	23.2	538	1	0	0	0
11/15/11	337,202	36.1	804,484	0.419	28.9	835	1	0	0	0
11/16/11	453,024	26.3	804,484	0.563	38.7	1498	1	0	0	0
11/17/11	412,752	31.8	804,484	0.513	33.2	1102	1	0	0	0
11/18/11	307,244	39.9	804,484	0.382	25.1	630	1	0	0	0
11/19/11	464,589	24.6	804,484	0.577	40.4	1632	1	0	0	0
11/20/11	495,764	22.1	804,484	0.616	42.9	1840	1	0	0	0
11/21/11	397,382	33.8	804,484	0.494	31.2	973	1	0	0	0
11/22/11	355,440	36.8	804,484	0.442	28.2	795	1	0	0	0
11/23/11	273,907	43.3	804,484	0.340	21.7	471	1	0	0	0
11/24/11	202,931	51.8	804,484	0.252	13.2	174	1	0	0	0
11/25/11	205,456	49.4	804,484	0.255	15.6	243	1	0	0	0
11/26/11	329,949	37.9	804,484	0.410	27.1	734	1	0	0	0
11/27/11	419,449	30.7	804,484	0.521	34.3	1176	1	0	0	0
11/28/11	394,581	32.8	804,484	0.490	32.2	1037	1	0	0	0
11/29/11	424,726	30.3	804,484	0.528	34.7	1204	1	0	0	0
11/30/11	392,193	34.4	804,484	0.488	30.6	936	1	0	0	0
12/01/11	500,770	22.6	806,620	0.621	42.4	1798	0	1	0	0
12/02/11	449,086	30.8	806,620	0.557	34.2	1170	0	1	0	0
12/03/11	427,673	29.2	806,620	0.530	35.8	1282	0	1	0	0
12/04/11	502,906	22.9	806,620	0.623	42.1	1772	0	1	0	0
12/05/11	578,077	17.8	806,620	0.717	47.2	2228	0	1	0	0
12/06/11	606,781	14.7	806,620	0.752	50.3	2530	0	1	0	0
12/07/11	506,542	24.4	806,620	0.628	40.6	1648	0	1	0	0
12/08/11	602,851	15.1	806,620	0.747	49.9	2490	0	1	0	0
12/09/11	663,304	11.1	806,620	0.822	53.9	2905	0	1	0	0
12/10/11	533,198	23.9	806,620	0.661	41.1	1689	0	1	0	0
12/11/11	392,659	37.3	806,620	0.487	27.7	767	0	1	0	0
12/12/11	352,872	37.1	806,620	0.437	27.9	778	0	1	0	0
12/13/11	358,853	36.4	806,620	0.445	28.6	818	0	1	0	0
12/14/11	367,015	35.9	806,620	0.455	29.1	847	0	1	0	0
12/15/11	528,586	24.0	806,620	0.655	41.0	1681	0	1	0	0
12/16/11	514,399	23.4	806,620	0.638	41.6	1731	0	1	0	0
12/17/11	465,926	28.0	806,620	0.578	37.0	1369	0	1	0	0
12/18/11	356,303	39.3	806,620	0.442	25.7	660	0	1	0	0
12/19/11	477,138	27.4	806,620	0.592	37.6	1414	0	1	0	0
12/20/11	489,986	25.2	806,620	0.607	39.8	1584	0	1	0	0
12/21/11	482,797	27.7	806,620	0.599	37.3	1391	0	1	0	0
12/22/11	521,587	23.7	806,620	0.647	41.3	1706	0	1	0	0
12/23/11	492,848	26.4	806,620	0.611	38.6	1490	0	1	0	0
12/24/11	377,981	36.8	806,620	0.469	28.2	795	0	1	0	0
12/25/11	379,692	34.0	806,620	0.471	31.0	961	0	1	0	0
12/26/11	341,755	41.7	806,620	0.424	23.3	543	0	1	0	0
12/27/11	452,731	26.8	806,620	0.561	38.2	1459	0	1	0	0
12/28/11	387,554	34.3	806,620	0.480	30.7	942	0	1	0	0
12/29/11	403,440	31.0	806,620	0.500	34.0	1156	0	1	0	0
12/30/11	410,557	31.3	806,620	0.509	33.7	1136	0	1	0	0
12/31/11	391,182	34.8	806,620	0.485	30.2	912	0	1	0	0
01/01/12	578,941	21.5	807,922	0.717	43.5	1892	0	0	0	0
01/02/12	630,964	14.5	807,922	0.781	50.5	2550	0	0	0	0
01/03/12	546,748	25.8	807,922	0.677	39.2	1537	0	0	0	0
01/04/12	439,015	30.8	807,922	0.543	34.2	1170	0	0	0	0
01/05/12	345,839	41.1	807,922	0.428	23.9	571	0	0	0	0
01/06/12	346,585	37.1	807,922	0.429	27.9	778	0	0	0	0

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01/07/12	444,948	29.0	807,922	0.551	36.0	1296	0	0	0	0
01/08/12	396,939	35.8	807,922	0.491	29.2	853	0	0	0	0
01/09/12	348,850	37.8	807,922	0.432	27.2	740	0	0	0	0
01/10/12	314,387	40.8	807,922	0.389	24.2	586	0	0	0	0
01/11/12	588,769	18.4	807,922	0.729	46.6	2172	0	0	0	0
01/12/12	712,329	12.5	807,922	0.882	52.5	2756	0	0	0	0
01/13/12	688,499	9.7	807,922	0.852	55.3	3058	0	0	0	0
01/14/12	581,823	18.9	807,922	0.720	46.1	2125	0	0	0	0
01/15/12	431,655	32.1	807,922	0.534	32.9	1082	0	0	0	0
01/16/12	551,701	21.9	807,922	0.683	43.1	1858	0	0	0	0
01/17/12	723,245	8.5	807,922	0.895	56.5	3192	0	0	0	0
01/18/12	767,373	6.5	807,922	0.950	58.5	3422	0	0	0	0
01/19/12	830,044	0.8	807,922	1.027	64.2	4122	0	0	0	0
01/20/12	757,486	5.4	807,922	0.938	59.6	3552	0	0	0	0
01/21/12	654,611	18.4	807,922	0.810	46.6	2172	0	0	0	0
01/22/12	547,989	24.0	807,922	0.678	41.0	1681	0	0	0	0
01/23/12	574,007	20.4	807,922	0.710	44.6	1989	0	0	0	0
01/24/12	548,875	22.2	807,922	0.679	42.8	1832	0	0	0	0
01/25/12	458,690	29.3	807,922	0.568	35.7	1274	0	0	0	0
01/26/12	439,862	29.3	807,922	0.544	35.7	1274	0	0	0	0
01/27/12	518,024	26.8	807,922	0.641	38.2	1459	0	0	0	0
01/28/12	537,674	21.5	807,922	0.666	43.5	1892	0	0	0	0
01/29/12	558,124	19.8	807,922	0.691	45.2	2043	0	0	0	0
01/30/12	388,287	35.1	807,922	0.481	29.9	894	0	0	0	0
01/31/12	380,555	33.6	807,922	0.471	31.4	986	0	0	0	0
02/01/12	401,887	30.8	808,293	0.497	34.2	1170	0	0	1	0
02/02/12	404,628	32.1	808,293	0.501	32.9	1082	0	0	1	0
02/03/12	453,732	28.8	808,293	0.561	36.2	1310	0	0	1	0
02/04/12	444,208	29.4	808,293	0.550	35.6	1267	0	0	1	0
02/05/12	477,428	28.3	808,293	0.591	36.7	1347	0	0	1	0
02/06/12	385,875	34.3	808,293	0.477	30.7	942	0	0	1	0
02/07/12	563,483	19.8	808,293	0.697	45.2	2043	0	0	1	0
02/08/12	530,688	24.0	808,293	0.657	41.0	1681	0	0	1	0
02/09/12	496,100	26.5	808,293	0.614	38.5	1482	0	0	1	0
02/10/12	729,135	8.1	808,293	0.902	56.9	3238	0	0	1	0
02/11/12	686,037	12.6	808,293	0.849	52.4	2746	0	0	1	0
02/12/12	547,973	23.0	808,293	0.678	42.0	1764	0	0	1	0
02/13/12	499,218	26.6	808,293	0.618	38.4	1475	0	0	1	0
02/14/12	457,732	29.0	808,293	0.566	36.0	1296	0	0	1	0
02/15/12	427,158	31.9	808,293	0.528	33.1	1096	0	0	1	0
02/16/12	411,406	32.4	808,293	0.509	32.6	1063	0	0	1	0
02/17/12	429,591	29.9	808,293	0.531	35.1	1232	0	0	1	0
02/18/12	442,534	28.0	808,293	0.547	37.0	1369	0	0	1	0
02/19/12	391,241	34.2	808,293	0.484	30.8	949	0	0	1	0
02/20/12	403,680	35.6	808,293	0.499	29.4	864	0	0	1	0
02/21/12	457,371	29.5	808,293	0.566	35.5	1260	0	0	1	0
02/22/12	417,409	30.7	808,293	0.516	34.3	1176	0	0	1	0
02/23/12	417,584	32.0	808,293	0.517	33.0	1089	0	0	1	0
02/24/12	569,909	18.8	808,293	0.705	46.2	2134	0	0	1	0
02/25/12	488,400	25.5	808,293	0.604	39.5	1560	0	0	1	0
02/26/12	506,067	29.0	808,293	0.626	36.0	1296	0	0	1	0
02/27/12	470,323	27.2	808,293	0.582	37.8	1429	0	0	1	0
02/28/12	459,633	32.1	808,293	0.569	32.9	1082	0	0	1	0
02/29/12	424,640	32.0	808,293	0.525	33.0	1089	0	0	1	0
03/01/12	385,031	32.4	807,665	0.477	32.6	1063	0	0	0	1
03/02/12	439,940	26.7	807,665	0.545	38.3	1467	0	0	0	1
03/03/12	560,982	17.6	807,665	0.695	47.4	2247	0	0	0	1
03/04/12	517,269	21.6	807,665	0.640	43.4	1884	0	0	0	1
03/05/12	460,880	31.0	807,665	0.571	34.0	1156	0	0	0	1
03/06/12	243,296	51.7	807,665	0.301	13.3	177	0	0	0	1
03/07/12	425,519	30.5	807,665	0.527	34.5	1190	0	0	0	1
03/08/12	484,305	26.5	807,665	0.600	38.5	1482	0	0	0	1
03/09/12	405,954	34.6	807,665	0.503	30.4	924	0	0	0	1
03/10/12	191,690	55.6	807,665	0.237	9.4	88	0	0	0	1
03/11/12	176,082	54.5	807,665	0.218	10.5	110	0	0	0	1

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>	<u>Nov</u>	<u>Dec</u>	<u>Feb</u>	<u>Mar</u>
03/12/12	249,537	45.0	807,665	0.309	20.0	400	0	0	0	1
03/13/12	159,704	55.5	807,665	0.198	9.5	90	0	0	0	1
03/14/12	130,418	58.4	807,665	0.161	6.6	44	0	0	0	1
03/15/12	170,161	53.5	807,665	0.211	11.5	132	0	0	0	1
03/16/12	90,378	67.1	807,665	0.112	0.0	0	0	0	0	1
03/17/12	81,543	70.5	807,665	0.101	0.0	0	0	0	0	1
03/18/12	87,451	70.2	807,665	0.108	0.0	0	0	0	0	1
03/19/12	82,821	65.8	807,665	0.103	0.0	0	0	0	0	1
03/20/12	99,993	60.1	807,665	0.124	4.9	24	0	0	0	1
03/21/12	105,198	60.0	807,665	0.130	5.0	25	0	0	0	1
03/22/12	103,483	61.9	807,665	0.128	3.1	10	0	0	0	1
03/23/12	84,460	62.2	807,665	0.105	2.8	8	0	0	0	1
03/24/12	116,549	54.9	807,665	0.144	10.1	102	0	0	0	1
03/25/12	185,806	47.6	807,665	0.230	17.4	303	0	0	0	1
03/26/12	316,285	42.1	807,665	0.392	22.9	524	0	0	0	1
03/27/12	162,431	53.5	807,665	0.201	11.5	132	0	0	0	1
03/28/12	202,336	46.3	807,665	0.251	18.7	350	0	0	0	1
03/29/12	168,668	49.3	807,665	0.209	15.7	246	0	0	0	1
03/30/12	194,993	44.2	807,665	0.241	20.8	433	0	0	0	1
03/31/12	199,787	47.5	807,665	0.247	17.5	306	0	0	0	1
11/01/12	307,225	35.9	811,114	0.379	29.1	847	1	0	0	0
11/02/12	323,801	37.5	811,114	0.399	27.5	756	1	0	0	0
11/03/12	309,667	37.5	811,114	0.382	27.5	756	1	0	0	0
11/04/12	286,563	41.4	811,114	0.353	23.6	557	1	0	0	0
11/05/12	293,718	41.3	811,114	0.362	23.7	562	1	0	0	0
11/06/12	300,748	39.8	811,114	0.371	25.2	635	1	0	0	0
11/07/12	287,479	39.9	811,114	0.354	25.1	630	1	0	0	0
11/08/12	249,963	43.3	811,114	0.308	21.7	471	1	0	0	0
11/09/12	224,816	47.3	811,114	0.277	17.7	313	1	0	0	0
11/10/12	174,624	53.8	811,114	0.215	11.2	125	1	0	0	0
11/11/12	449,010	24.9	811,114	0.554	40.1	1608	1	0	0	0
11/12/12	524,323	22.4	811,114	0.646	42.6	1815	1	0	0	0
11/13/12	349,460	36.9	811,114	0.431	28.1	790	1	0	0	0
11/14/12	263,688	43.6	811,114	0.325	21.4	458	1	0	0	0
11/15/12	330,197	35.9	811,114	0.407	29.1	847	1	0	0	0
11/16/12	329,654	36.8	811,114	0.406	28.2	795	1	0	0	0
11/17/12	219,662	49.0	811,114	0.271	16.0	256	1	0	0	0
11/18/12	196,452	50.4	811,114	0.242	14.6	213	1	0	0	0
11/19/12	215,001	46.3	811,114	0.265	18.7	350	1	0	0	0
11/20/12	247,642	45.0	811,114	0.305	20.0	400	1	0	0	0
11/21/12	161,947	56.5	811,114	0.200	8.5	72	1	0	0	0
11/22/12	360,375	31.7	811,114	0.444	33.3	1109	1	0	0	0
11/23/12	551,707	18.5	811,114	0.680	46.5	2162	1	0	0	0
11/24/12	478,911	27.3	811,114	0.590	37.7	1421	1	0	0	0
11/25/12	498,388	23.1	811,114	0.614	41.9	1756	1	0	0	0
11/26/12	569,345	18.1	811,114	0.702	46.9	2200	1	0	0	0
11/27/12	474,521	29.3	811,114	0.585	35.7	1274	1	0	0	0
11/28/12	417,455	30.7	811,114	0.515	34.3	1176	1	0	0	0
11/29/12	395,313	34.5	811,114	0.487	30.5	930	1	0	0	0
11/30/12	383,381	35.3	811,114	0.473	29.7	882	1	0	0	0
12/01/12	322,331	39.3	812,553	0.397	25.7	660	0	1	0	0
12/02/12	327,142	40.9	812,553	0.403	24.1	581	0	1	0	0
12/03/12	281,835	44.3	812,553	0.347	20.7	428	0	1	0	0
12/04/12	462,568	25.3	812,553	0.569	39.7	1576	0	1	0	0
12/05/12	406,844	37.8	812,553	0.501	27.2	740	0	1	0	0
12/06/12	367,630	33.4	812,553	0.452	31.6	999	0	1	0	0
12/07/12	444,670	28.0	812,553	0.547	37.0	1369	0	1	0	0
12/08/12	409,188	30.8	812,553	0.504	34.2	1170	0	1	0	0
12/09/12	505,871	22.9	812,553	0.623	42.1	1772	0	1	0	0
12/10/12	624,225	9.3	812,553	0.768	55.7	3102	0	1	0	0
12/11/12	607,940	17.0	812,553	0.748	48.0	2304	0	1	0	0
12/12/12	417,427	37.4	812,553	0.514	27.6	762	0	1	0	0
12/13/12	455,817	27.5	812,553	0.561	37.5	1406	0	1	0	0
12/14/12	395,568	33.5	812,553	0.487	31.5	992	0	1	0	0
12/15/12	380,605	34.7	812,553	0.468	30.3	918	0	1	0	0

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>	<u>Nov</u>	<u>Dec</u>	<u>Feb</u>	<u>Mar</u>
12/16/12	516,676	21.7	812,553	0.636	43.3	1875	0	1	0	0
12/17/12	507,739	23.8	812,553	0.625	41.2	1697	0	1	0	0
12/18/12	471,763	27.8	812,553	0.581	37.2	1384	0	1	0	0
12/19/12	460,079	27.0	812,553	0.566	38.0	1444	0	1	0	0
12/20/12	620,644	16.8	812,553	0.764	48.2	2323	0	1	0	0
12/21/12	625,145	13.7	812,553	0.769	51.3	2632	0	1	0	0
12/22/12	561,124	19.1	812,553	0.691	45.9	2107	0	1	0	0
12/23/12	599,746	16.4	812,553	0.738	48.6	2362	0	1	0	0
12/24/12	668,095	9.0	812,553	0.822	56.0	3136	0	1	0	0
12/25/12	715,967	7.2	812,553	0.881	57.8	3341	0	1	0	0
12/26/12	673,635	12.5	812,553	0.829	52.5	2756	0	1	0	0
12/27/12	606,782	18.8	812,553	0.747	46.2	2134	0	1	0	0
12/28/12	559,126	19.4	812,553	0.688	45.6	2079	0	1	0	0
12/29/12	664,060	8.6	812,553	0.817	56.4	3181	0	1	0	0
12/30/12	621,446	16.9	812,553	0.765	48.1	2314	0	1	0	0
12/31/12	730,350	4.0	812,553	0.899	61.0	3721	0	1	0	0
01/01/13	688,935	13.7	813,605	0.847	51.3	2632	0	0	0	0
01/02/13	617,490	16.8	813,605	0.759	48.2	2323	0	0	0	0
01/03/13	639,791	15.3	813,605	0.786	49.7	2470	0	0	0	0
01/04/13	545,654	20.3	813,605	0.671	44.7	1998	0	0	0	0
01/05/13	572,764	18.3	813,605	0.704	46.7	2181	0	0	0	0
01/06/13	570,148	21.5	813,605	0.701	43.5	1892	0	0	0	0
01/07/13	476,479	27.2	813,605	0.586	37.8	1429	0	0	0	0
01/08/13	462,921	31.3	813,605	0.569	33.7	1136	0	0	0	0
01/09/13	444,889	29.5	813,605	0.547	35.5	1260	0	0	0	0
01/10/13	397,847	35.5	813,605	0.489	29.5	870	0	0	0	0
01/11/13	413,862	32.4	813,605	0.509	32.6	1063	0	0	0	0
01/12/13	705,978	7.4	813,605	0.868	57.6	3318	0	0	0	0
01/13/13	777,312	6.0	813,605	0.955	59.0	3481	0	0	0	0
01/14/13	710,666	11.7	813,605	0.873	53.3	2841	0	0	0	0
01/15/13	550,828	26.3	813,605	0.677	38.7	1498	0	0	0	0
01/16/13	594,587	19.8	813,605	0.731	45.2	2043	0	0	0	0
01/17/13	631,806	17.4	813,605	0.777	47.6	2266	0	0	0	0
01/18/13	434,528	33.7	813,605	0.534	31.3	980	0	0	0	0
01/19/13	676,182	12.8	813,605	0.831	52.2	2725	0	0	0	0
01/20/13	852,848	(0.1)	813,605	1.048	65.1	4238	0	0	0	0
01/21/13	961,134	(6.9)	813,605	1.181	71.9	5170	0	0	0	0
01/22/13	841,471	3.0	813,605	1.034	62.0	3844	0	0	0	0
01/23/13	839,349	1.9	813,605	1.032	63.1	3982	0	0	0	0
01/24/13	801,212	10.1	813,605	0.985	54.9	3014	0	0	0	0
01/25/13	737,493	10.2	813,605	0.906	54.8	3003	0	0	0	0
01/26/13	630,692	22.2	813,605	0.775	42.8	1832	0	0	0	0
01/27/13	486,825	31.2	813,605	0.598	33.8	1142	0	0	0	0
01/28/13	435,624	31.0	813,605	0.535	34.0	1156	0	0	0	0
01/29/13	483,077	27.1	813,605	0.594	37.9	1436	0	0	0	0
01/30/13	730,758	9.1	813,605	0.898	55.9	3125	0	0	0	0
01/31/13	919,219	(5.9)	813,605	1.130	70.9	5027	0	0	0	0
02/01/13	816,844	0.3	814,223	1.003	64.7	4186	0	0	1	0
02/02/13	708,072	7.2	814,223	0.870	57.8	3341	0	0	1	0
02/03/13	692,681	9.7	814,223	0.851	55.3	3058	0	0	1	0
02/04/13	647,045	15.3	814,223	0.795	49.7	2470	0	0	1	0
02/05/13	603,769	15.3	814,223	0.742	49.7	2470	0	0	1	0
02/06/13	582,564	21.1	814,223	0.715	43.9	1927	0	0	1	0
02/07/13	556,766	22.0	814,223	0.684	43.0	1849	0	0	1	0
02/08/13	525,703	21.3	814,223	0.646	43.7	1910	0	0	1	0
02/09/13	493,459	26.0	814,223	0.606	39.0	1521	0	0	1	0
02/10/13	485,604	30.8	814,223	0.596	34.2	1170	0	0	1	0
02/11/13	571,707	21.8	814,223	0.702	43.2	1866	0	0	1	0
02/12/13	484,926	26.5	814,223	0.596	38.5	1482	0	0	1	0
02/13/13	427,336	32.5	814,223	0.525	32.5	1056	0	0	1	0
02/14/13	554,503	19.2	814,223	0.681	45.8	2098	0	0	1	0
02/15/13	661,122	9.9	814,223	0.812	55.1	3036	0	0	1	0
02/16/13	631,804	12.5	814,223	0.776	52.5	2756	0	0	1	0
02/17/13	508,693	27.9	814,223	0.625	37.1	1376	0	0	1	0
02/18/13	674,176	14.9	814,223	0.828	50.1	2510	0	0	1	0

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02/19/13	808,222	2.8	814,223	0.993	62.2	3869	0	0	1	0
02/20/13	706,152	12.0	814,223	0.867	53.0	2809	0	0	1	0
02/21/13	602,844	20.6	814,223	0.740	44.4	1971	0	0	1	0
02/22/13	524,048	24.0	814,223	0.644	41.0	1681	0	0	1	0
02/23/13	520,587	21.6	814,223	0.639	43.4	1884	0	0	1	0
02/24/13	476,977	28.3	814,223	0.586	36.7	1347	0	0	1	0
02/25/13	472,546	27.5	814,223	0.580	37.5	1406	0	0	1	0
02/26/13	464,870	32.3	814,223	0.571	32.7	1069	0	0	1	0
02/27/13	431,229	32.2	814,223	0.530	32.8	1076	0	0	1	0
02/28/13	515,657	26.9	814,223	0.633	38.1	1452	0	0	1	0
03/01/13	533,662	22.0	814,551	0.655	43.0	1849	0	0	0	1
03/02/13	484,756	23.6	814,551	0.595	41.4	1714	0	0	0	1
03/03/13	470,739	28.2	814,551	0.578	36.8	1354	0	0	0	1
03/04/13	535,288	25.5	814,551	0.657	39.5	1560	0	0	0	1
03/05/13	504,327	25.4	814,551	0.619	39.6	1568	0	0	0	1
03/06/13	545,786	20.0	814,551	0.670	45.0	2025	0	0	0	1
03/07/13	486,969	24.7	814,551	0.598	40.3	1624	0	0	0	1
03/08/13	387,185	35.0	814,551	0.475	30.0	900	0	0	0	1
03/09/13	393,953	36.1	814,551	0.484	28.9	835	0	0	0	1
03/10/13	482,549	31.7	814,551	0.592	33.3	1109	0	0	0	1
03/11/13	507,328	26.6	814,551	0.623	38.4	1475	0	0	0	1
03/12/13	539,477	23.2	814,551	0.662	41.8	1747	0	0	0	1
03/13/13	468,207	26.8	814,551	0.575	38.2	1459	0	0	0	1
03/14/13	371,041	33.8	814,551	0.456	31.2	973	0	0	0	1
03/15/13	471,024	28.1	814,551	0.578	36.9	1362	0	0	0	1
03/16/13	547,044	18.0	814,551	0.672	47.0	2209	0	0	0	1
03/17/13	523,983	25.8	814,551	0.643	39.2	1537	0	0	0	1
03/18/13	643,074	15.3	814,551	0.789	49.7	2470	0	0	0	1
03/19/13	658,246	13.4	814,551	0.808	51.6	2663	0	0	0	1
03/20/13	644,459	14.0	814,551	0.791	51.0	2601	0	0	0	1
03/21/13	545,252	21.0	814,551	0.669	44.0	1936	0	0	0	1
03/22/13	441,787	27.9	814,551	0.542	37.1	1376	0	0	0	1
03/23/13	411,784	32.1	814,551	0.506	32.9	1082	0	0	0	1
03/24/13	466,804	29.6	814,551	0.573	35.4	1253	0	0	0	1
03/25/13	407,250	32.2	814,551	0.500	32.8	1076	0	0	0	1
03/26/13	408,283	31.6	814,551	0.501	33.4	1116	0	0	0	1
03/27/13	366,039	34.3	814,551	0.449	30.7	942	0	0	0	1
03/28/13	329,700	37.1	814,551	0.405	27.9	778	0	0	0	1
03/29/13	280,746	42.8	814,551	0.345	22.2	493	0	0	0	1
03/30/13	278,436	42.6	814,551	0.342	22.4	502	0	0	0	1
03/31/13	435,064	29.8	814,551	0.534	35.2	1239	0	0	0	1
11/01/13	260,159	42.3	818,523	0.318	22.7	515	1	0	0	0
11/02/13	289,097	42.3	818,523	0.353	22.7	515	1	0	0	0
11/03/13	236,978	49.2	818,523	0.290	15.8	250	1	0	0	0
11/04/13	314,108	39.9	818,523	0.384	25.1	630	1	0	0	0
11/05/13	352,238	36.6	818,523	0.430	28.4	807	1	0	0	0
11/06/13	370,632	32.9	818,523	0.453	32.1	1030	1	0	0	0
11/07/13	422,025	29.7	818,523	0.516	35.3	1246	1	0	0	0
11/08/13	340,633	42.8	818,523	0.416	22.2	493	1	0	0	0
11/09/13	346,247	38.6	818,523	0.423	26.4	697	1	0	0	0
11/10/13	355,609	35.8	818,523	0.434	29.2	853	1	0	0	0
11/11/13	558,987	19.0	818,523	0.683	46.0	2116	1	0	0	0
11/12/13	519,267	24.8	818,523	0.634	40.2	1616	1	0	0	0
11/13/13	320,820	42.1	818,523	0.392	22.9	524	1	0	0	0
11/14/13	316,502	40.3	818,523	0.387	24.7	610	1	0	0	0
11/15/13	249,500	47.0	818,523	0.305	18.0	324	1	0	0	0
11/16/13	265,288	45.3	818,523	0.324	19.7	388	1	0	0	0
11/17/13	380,344	36.0	818,523	0.465	29.0	841	1	0	0	0
11/18/13	452,662	28.9	818,523	0.553	36.1	1303	1	0	0	0
11/19/13	343,053	43.2	818,523	0.419	21.8	475	1	0	0	0
11/20/13	332,804	38.8	818,523	0.407	26.2	686	1	0	0	0
11/21/13	509,198	25.3	818,523	0.622	39.7	1576	1	0	0	0
11/22/13	574,041	19.3	818,523	0.701	45.7	2088	1	0	0	0
11/23/13	663,634	12.7	818,523	0.811	52.3	2735	1	0	0	0
11/24/13	531,897	28.3	818,523	0.650	36.7	1347	1	0	0	0

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>	<u>Nov</u>	<u>Dec</u>	<u>Feb</u>	<u>Mar</u>
11/25/13	461,092	31.8	818,523	0.563	33.2	1102	1	0	0	0
11/26/13	632,752	16.5	818,523	0.773	48.5	2352	1	0	0	0
11/27/13	565,510	22.4	818,523	0.691	42.6	1815	1	0	0	0
11/28/13	565,579	20.2	818,523	0.691	44.8	2007	1	0	0	0
11/29/13	505,603	28.4	818,523	0.618	36.6	1340	1	0	0	0
11/30/13	427,827	31.7	818,523	0.523	33.3	1109	1	0	0	0
12/01/13	451,675	30.5	820,313	0.551	34.5	1190	0	1	0	0
12/02/13	410,717	35.1	820,313	0.501	29.9	894	0	1	0	0
12/03/13	422,560	32.9	820,313	0.515	32.1	1030	0	1	0	0
12/04/13	569,447	19.6	820,313	0.694	45.4	2061	0	1	0	0
12/05/13	786,137	2.0	820,313	0.958	63.0	3969	0	1	0	0
12/06/13	865,403	(3.7)	820,313	1.055	68.7	4720	0	1	0	0
12/07/13	850,293	(0.4)	820,313	1.037	65.4	4277	0	1	0	0
12/08/13	745,786	8.3	820,313	0.909	56.7	3215	0	1	0	0
12/09/13	826,831	1.8	820,313	1.008	63.2	3994	0	1	0	0
12/10/13	804,486	3.2	820,313	0.981	61.8	3819	0	1	0	0
12/11/13	847,431	1.3	820,313	1.033	63.7	4058	0	1	0	0
12/12/13	658,704	16.3	820,313	0.803	48.7	2372	0	1	0	0
12/13/13	695,246	12.8	820,313	0.848	52.2	2725	0	1	0	0
12/14/13	747,492	5.8	820,313	0.911	59.2	3505	0	1	0	0
12/15/13	798,126	2.4	820,313	0.973	62.6	3919	0	1	0	0
12/16/13	669,197	20.2	820,313	0.816	44.8	2007	0	1	0	0
12/17/13	626,442	17.4	820,313	0.764	47.6	2266	0	1	0	0
12/18/13	525,856	27.1	820,313	0.641	37.9	1436	0	1	0	0
12/19/13	653,216	17.3	820,313	0.796	47.7	2275	0	1	0	0
12/20/13	615,169	18.4	820,313	0.750	46.6	2172	0	1	0	0
12/21/13	602,408	19.0	820,313	0.734	46.0	2116	0	1	0	0
12/22/13	718,679	9.0	820,313	0.876	56.0	3136	0	1	0	0
12/23/13	904,190	(4.4)	820,313	1.102	69.4	4816	0	1	0	0
12/24/13	770,114	9.3	820,313	0.939	55.7	3102	0	1	0	0
12/25/13	615,169	16.8	820,313	0.750	48.2	2323	0	1	0	0
12/26/13	571,937	21.7	820,313	0.697	43.3	1875	0	1	0	0
12/27/13	460,757	31.3	820,313	0.562	33.7	1136	0	1	0	0
12/28/13	516,400	24.5	820,313	0.630	40.5	1640	0	1	0	0
12/29/13	893,763	(7.0)	820,313	1.090	72.0	5184	0	1	0	0
12/30/13	903,236	(2.7)	820,313	1.101	67.7	4583	0	1	0	0
12/31/13	926,621	(5.0)	820,313	1.130	70.0	4900	0	1	0	0
01/01/14	892,852	(1.9)	821,220	1.087	66.9	4476	0	0	0	0
01/02/14	902,940	(2.7)	821,220	1.100	67.7	4583	0	0	0	0
01/03/14	674,191	22.5	821,220	0.821	42.5	1806	0	0	0	0
01/04/14	783,780	2.8	821,220	0.954	62.2	3869	0	0	0	0
01/05/14	1,045,732	(14.5)	821,220	1.273	79.5	6320	0	0	0	0
01/06/14	1,086,330	(13.8)	821,220	1.323	78.8	6209	0	0	0	0
01/07/14	909,815	(2.6)	821,220	1.108	67.6	4570	0	0	0	0
01/08/14	898,060	(1.4)	821,220	1.094	66.4	4409	0	0	0	0
01/09/14	695,186	17.4	821,220	0.847	47.6	2266	0	0	0	0
01/10/14	528,248	28.3	821,220	0.643	36.7	1347	0	0	0	0
01/11/14	520,417	27.3	821,220	0.634	37.7	1421	0	0	0	0
01/12/14	444,652	34.8	821,220	0.541	30.2	912	0	0	0	0
01/13/14	484,290	26.9	821,220	0.590	38.1	1452	0	0	0	0
01/14/14	687,622	10.8	821,220	0.837	54.2	2938	0	0	0	0
01/15/14	629,869	21.8	821,220	0.767	43.2	1866	0	0	0	0
01/16/14	755,215	9.0	821,220	0.920	56.0	3136	0	0	0	0
01/17/14	710,491	9.9	821,220	0.865	55.1	3036	0	0	0	0
01/18/14	593,127	20.3	821,220	0.722	44.7	1998	0	0	0	0
01/19/14	458,959	31.6	821,220	0.559	33.4	1116	0	0	0	0
01/20/14	807,551	0.9	821,220	0.983	64.1	4109	0	0	0	0
01/21/14	859,867	1.5	821,220	1.047	63.5	4032	0	0	0	0
01/22/14	939,132	(5.8)	821,220	1.144	70.8	5013	0	0	0	0
01/23/14	903,346	1.7	821,220	1.100	63.3	4007	0	0	0	0
01/24/14	623,215	21.9	821,220	0.759	43.1	1858	0	0	0	0
01/25/14	740,592	6.3	821,220	0.902	58.7	3446	0	0	0	0
01/26/14	896,955	(1.8)	821,220	1.092	66.8	4462	0	0	0	0
01/27/14	1,013,460	(11.3)	821,220	1.234	76.3	5822	0	0	0	0
01/28/14	934,603	(3.5)	821,220	1.138	68.5	4692	0	0	0	0

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>	<u>Nov</u>	<u>Dec</u>	<u>Feb</u>	<u>Mar</u>
01/29/14	622,124	23.8	821,220	0.758	41.2	1697	0	0	0	0
01/30/14	765,957	3.2	821,220	0.933	61.8	3819	0	0	0	0
01/31/14	767,161	4.3	821,220	0.934	60.7	3684	0	0	0	0
02/01/14	742,210	6.2	821,951	0.903	58.8	3457	0	0	1	0
02/02/14	767,201	4.6	821,951	0.933	60.4	3648	0	0	1	0
02/03/14	747,100	7.8	821,951	0.909	57.2	3272	0	0	1	0
02/04/14	813,285	3.5	821,951	0.989	61.5	3782	0	0	1	0
02/05/14	903,288	(2.6)	821,951	1.099	67.6	4570	0	0	1	0
02/06/14	875,965	(0.8)	821,951	1.066	65.8	4330	0	0	1	0
02/07/14	802,105	5.0	821,951	0.976	60.0	3600	0	0	1	0
02/08/14	762,332	7.4	821,951	0.927	57.6	3318	0	0	1	0
02/09/14	863,250	(2.7)	821,951	1.050	67.7	4583	0	0	1	0
02/10/14	878,879	(2.0)	821,951	1.069	67.0	4489	0	0	1	0
02/11/14	747,125	11.3	821,951	0.909	53.7	2884	0	0	1	0
02/12/14	599,842	20.4	821,951	0.730	44.6	1989	0	0	1	0
02/13/14	713,019	10.6	821,951	0.867	54.4	2959	0	0	1	0
02/14/14	726,273	7.5	821,951	0.884	57.5	3306	0	0	1	0
02/15/14	680,208	14.8	821,951	0.828	50.2	2520	0	0	1	0
02/16/14	621,395	19.0	821,951	0.756	46.0	2116	0	0	1	0
02/17/14	552,739	22.9	821,951	0.672	42.1	1772	0	0	1	0
02/18/14	438,311	31.5	821,951	0.533	33.5	1122	0	0	1	0
02/19/14	407,689	34.4	821,951	0.496	30.6	936	0	0	1	0
02/20/14	551,513	21.8	821,951	0.671	43.2	1866	0	0	1	0
02/21/14	682,078	11.0	821,951	0.830	54.0	2916	0	0	1	0
02/22/14	691,246	8.6	821,951	0.841	56.4	3181	0	0	1	0
02/23/14	716,126	8.3	821,951	0.871	56.7	3215	0	0	1	0
02/24/14	763,209	5.0	821,951	0.929	60.0	3600	0	0	1	0
02/25/14	861,631	(2.4)	821,951	1.048	67.4	4543	0	0	1	0
02/26/14	857,478	(3.2)	821,951	1.043	68.2	4651	0	0	1	0
02/27/14	883,960	(5.0)	821,951	1.075	70.0	4900	0	0	1	0
02/28/14	797,741	6.5	821,951	0.971	58.5	3422	0	0	1	0
03/01/14	931,911	(6.3)	822,177	1.133	71.3	5084	0	0	0	1
03/02/14	893,144	(3.8)	822,177	1.086	68.8	4733	0	0	0	1
03/03/14	793,372	6.7	822,177	0.965	58.3	3399	0	0	0	1
03/04/14	654,645	16.0	822,177	0.796	49.0	2401	0	0	0	1
03/05/14	598,914	18.0	822,177	0.728	47.0	2209	0	0	0	1
03/06/14	564,977	24.3	822,177	0.687	40.7	1656	0	0	0	1
03/07/14	540,896	25.2	822,177	0.658	39.8	1584	0	0	0	1
03/08/14	500,163	22.9	822,177	0.608	42.1	1772	0	0	0	1
03/09/14	393,788	38.0	822,177	0.479	27.0	729	0	0	0	1
03/10/14	291,729	44.0	822,177	0.355	21.0	441	0	0	0	1
03/11/14	431,105	32.3	822,177	0.524	32.7	1069	0	0	0	1
03/12/14	483,403	24.8	822,177	0.588	40.2	1616	0	0	0	1
03/13/14	307,016	42.7	822,177	0.373	22.3	497	0	0	0	1
03/14/14	418,521	31.3	822,177	0.509	33.7	1136	0	0	0	1
03/15/14	526,833	22.5	822,177	0.641	42.5	1806	0	0	0	1
03/16/14	531,181	22.6	822,177	0.646	42.4	1798	0	0	0	1
03/17/14	450,154	31.5	822,177	0.548	33.5	1122	0	0	0	1
03/18/14	454,709	30.7	822,177	0.553	34.3	1176	0	0	0	1
03/19/14	463,131	29.8	822,177	0.563	35.2	1239	0	0	0	1
03/20/14	351,375	35.7	822,177	0.427	29.3	858	0	0	0	1
03/21/14	495,618	27.0	822,177	0.603	38.0	1444	0	0	0	1
03/22/14	621,205	15.1	822,177	0.756	49.9	2490	0	0	0	1
03/23/14	577,846	21.0	822,177	0.703	44.0	1936	0	0	0	1
03/24/14	573,786	21.6	822,177	0.698	43.4	1884	0	0	0	1
03/25/14	602,373	18.6	822,177	0.733	46.4	2153	0	0	0	1
03/26/14	414,848	36.9	822,177	0.505	28.1	790	0	0	0	1
03/27/14	439,292	32.6	822,177	0.534	32.4	1050	0	0	0	1
03/28/14	429,334	30.5	822,177	0.522	34.5	1190	0	0	0	1
03/29/14	334,433	38.4	822,177	0.407	26.6	708	0	0	0	1
03/30/14	225,216	50.6	822,177	0.274	14.4	207	0	0	0	1
03/31/14	327,421	39.3	822,177	0.398	25.7	660	0	0	0	1

PUBLIC DATA
Trade Secret Information has been Excised

Exhibit C
Page 1

CenterPoint Energy Minnesota Gas
BP Energy Storage Contract Demand Charges
Allocation Between Demand Costs and Commodity Costs

Winter 2014-15		Demand	
Winter 2015-16	Volumes (5Bcf)	Charge	\$
[Trade Secret Data Begins...			

...Trade Secret Data Ends]

CenterPoint Energy Minnesota Gas

FDD Storage on Northern Natural Gas

Allocation Between Demand Costs and Commodity Costs

Winter 2014-15	Reservation Fee (8,672 MDQx\$ 1.174)	Capacity Fee (500,000 X \$.3567) over 5 mos	Annual Cycle MMBtu	Inj/WD Rate	Inj/Withdrawal Fees	Demand Costs Per Month
[Trade Secret Data Begins...						

...Trade Secret Data Ends]

CenterPoint Energy Minnesota Gas
Tenaska Storage Contract Demand Charges
Allocation Between Demand Costs and Commodity Costs

Winter 2014-15	Per Day	Days (1)	MMBtu	Baseload/ Swing Split	Contract Demand Rate	Commoditized Cost Allocation	Commoditized Cost Allocation Rate	Demand Costs Per Month
[Trade Secret Data Begins...								

...Trade Secret Data Ends]

EXHIBIT D

July 1, 2014

Re: CenterPoint Energy's Request for Change in Demand Units

PLEASE TAKE NOTICE that on July 1, 2014, CenterPoint Energy filed its request for Change in Demand Units to be effective November 1, 2014 with the Minnesota Public Utilities Commission (MPUC). True and correct copies will be on file at the Commission offices (Metro Square, Suite 350, 121 7th Place East, St. Paul, Minnesota, 55101-2147) during regular business hours or from CenterPoint Energy by contacting Marie Doyle.

This Notice is required per MPUC Rule part 7825.2910, Subpart 3. Service list consists of interveners in the Company's previous two general rate cases.

If you have any questions, please contact Marie Doyle at (612) 321-5078.

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