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PO Box 59038
Minneapolis, MN 55459-0038

PUBLIC DOCUMENT

Trade Secret Information Has Been Excised

April 1, 2025

Mr. Will Seuffert
Executive Secretary
Minnesota Public Utilities Commission 350
Metro Square Building
121 East Seventh Place, Suite 350
St. Paul, MN 55101-2147

**Re: CenterPoint Energy's Request for Change in Demand Units
Docket No. G008/M-25**

Dear Mr. Seuffert:

Pursuant to Minn. Rule 7825.2910, Subp. 2, CenterPoint Energy Resources Corp. d/b/a/ CenterPoint Energy Minnesota Gas ("CenterPoint Energy" or the "Company") submits a Request for a Change in Demand Units ("Request"). With this filing, CenterPoint Energy submits the following:

- A variance to Minn. Rule 7825.2910, Subp. 2 D. With the timing of this Demand Entitlement request occurring earlier in the year than the typical July filing, CenterPoint Energy would like to request a variance to the design-day requirements. This variance will allow CenterPoint Energy to file its Demand Entitlement change and implement the costs on April 1, 2025, and provide an up-to-date design-day analysis inclusive of the 2024/2025 winter data. CenterPoint Energy will submit a description of design-day gas supply from all sources under the new level, allocation, or form of demand on June 1, 2025, which uses the 2024/2025 winter data to set the next year's gas design day. The variance request associated with the design day filing is consistent with the approach CenterPoint Energy used in its 2024/2025 demand entitlement Docket 24-146. Given this request has been sent on April 1, 2025, the Company would like a variance to the rule in order to put together a complete design day analysis has set forth in Subp. 2D; and
- The Company requests approval of demand charges associated with the storage partnership with ANR Pipeline Company ("ANR"); and
- CenterPoint Energy requests approval of demand charges associated with the entitlement it was awarded in the open season for Carlton South Generally Available capacity in February 2025 effective April 1, 2025; and
- The Company requests approval of demand charges associated with the 2025 Northern Lights election; and
- CenterPoint Energy requests approval of demand charges associated with the replacement of its Marketer Storage agreement awarded by Request for Proposal in August 2024 effective May 1, 2025; and
- The Company requests approval of demand charges associated with the storage partnership transaction between Tenaska Gas Storage, LLC ("Tenaska") and East Cheyenne Gas Storage, LLC ("East Cheyenne") for firm storage services effective April 1, 2025, to March 31, 2028; and

Mr. Will Seuffert
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April 1, 2025

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- A \$2.00 rounding update for Northern Natural Gas (“NNG”) FDD storage; and
- CenterPoint Energy expects to supplement this filing with changes in the demand rate effective November 1, 2025, to reflect updated seasonal reservation charges for swing gas supplies and may also supplement if additional capacity is acquired through capacity release.

CenterPoint Energy has designated information in this document trade secret. Specifically, Exhibit A, pages 1-4; Exhibit B3, and Exhibit C1-C5. 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.

Feel free to contact me at 612-321-4677 if you have any questions.

Sincerely,
/s/_____
Donald Wynia
Regulatory Analyst
Regulatory Services
Donald.Wynia@CenterPointEnergy.com

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

A. Name, Address, and Telephone Number of Utility

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

B. Name Address, and Telephone Number of Utility Attorney

Jason Loos
CenterPoint Energy
505 Nicollet Mall
P.O. Box 59038
Minneapolis, MN 55459-0038
(612) 321-4410
Jason.Loos@CenterPointEnergy.com

C. Date of Filing and the Date the Proposed Rate or Service Change Will Take Effect

Date Filed: April 1, 2025
Effective Date: April 1, 2025 and November 1, 2025

D. Statute Controlling Schedule for Processing the Filing

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

E. Utility Employee Responsible for Filing

/s/_____
Donald Wynia
Regulatory Analyst
(612) 321-4677
Donald.Wynia@CenterPointEnergy.com

F. Description of the Filing, Its Impact on Rates and Services, Its Impact on Any Affected Person, and the Reasons for the Filing

With this filing, CenterPoint Energy submits demand entitlement changes as discussed in Section A below.

G. Miscellaneous Information

CenterPoint Energy requests that the following employees be included in the service list for this proceeding.

Donald Wynia
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PO Box 59038
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Donald.Wynia@centerpointenergy.com

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

CenterPoint Energy
Filing Upon a Change in Demand
Minn. Rule 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.

Subject to Subp 2D CenterPoint Energy requests a variance to Minn. Rule 7825.2910. D With the timing of this Demand Entitlement request occurring earlier in the year than the typical July filing, CenterPoint Energy would like to request a variance to the design-day requirements. This variance will allow CenterPoint Energy to file its Demand Entitlement change and implement the costs on April 1, 2025, and provide an up-to-date design-day analysis inclusive of the 2024/2025 winter data. CenterPoint Energy will submit a description of design-day gas supply from all sources under the new level, allocation, or form of demand on June 1, 2025, which uses the 2024/2025 winter data to set the next year's gas design day. Given this request has been sent on April 1, 2025, the Company would like a variance to the rule in order to put together a complete design day analysis has set forth in Subp. 2D.

The Demand Portfolio to be implemented April 1, 2025, will increase the total demand cost by about \$6.9 million on an annual basis. The per-unit demand charge for small volume firm customers will increase April 1, 2025, rate changes by \$0.00574 per therm. The annual effects on an average residential heating customer using 890 therms (2021 Rate Case residential UPC) are an increase in April of \$5.11 per year. In May 2025 the total annual demand cost will increase \$5.4 million. The per-unit demand charge for small volume firm customers will increase May 1, 2025, rate changes by \$0.00446 per therm. The annual effects on an average residential heating customer using 890 therms (2021 Rate Case residential UPC) are an increase in May of \$3.97 per year. The current November 2025 demand cost is projected to be an increase of \$16.8 million on an annual basis. The per-unit demand charge for small volume firm customers would increase \$0.1401 per therm. The annual effects on an average residential heating customer using 890 therms (2021 Rate Case residential UPC) are an increase in November of \$12.47 per year. Final adjustments for November 1, 2025, will be submitted on November 1, 2025, with final demand costs.

**Filing Upon a Change in Demand
Minn. Rule 7829.1300, Subp. 2
CenterPoint Energy
April 2025**

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.

Background Information

CenterPoint Energy is continually evaluating its capacity portfolio position, including its upstream pipeline capacity, storage capabilities, and supply contracts to provide its customers safe and reliable natural gas services while achieving rate stabilization and reasonable costs. The Company's service area has experienced continuous steady growth in new customers and additional need for firm service from existing customers due to changing needs. The Company aims to contract sufficient capacity to provide a reasonable reserve margin for safe and reliable distribution to our customers.

On April 1, 2024, in Docket No. 24-146, the Company requested approval of demand charges associated with the storage partnership transaction between Tenaska and East Cheyenne for firm storage services effective April 1, 2024, to March 31, 2029. The Company also requested an update to the previously approved (Docket No. G008/M-18-462) NNG non-discounted rates to account for contractual changes. Finally, the Company filed a supplemental request in November 2024, to update its swing reservation. This filing is currently pending before the Commission.

June 1, 2025 Design Day and Projected 2025-2026 Reserve Margin

Updated information will be provided on June 1, 2025.

Previous Design Day information provided in Docket 24-146:

With this filing, and as described in more detail below, the Company submits a new design day analysis, which demonstrates an increase in total requirements of 20,850 Dth/day. The Company's reserve margin for heating season 2024-2025 will be 3.2%.

April 1, 2025 and November 1, 2025 Proposed Demand Changes

ANR Pipeline Company Storage

CenterPoint Energy requests approval of demand charges associated with the storage partnership transaction with ANR Pipeline Company ("ANR"). The Company participated in the Ventura Xpress Project Open Season ("Project") posted by ANR in September 2023 for 4.5 Bcf of firm storage services and the corresponding firm transportation services at ANR max tariff rates. The Project will deliver approximately 75,000 Dth/day of firm storage services from ANR storage to the Ventura interconnect on Northern Border Pipeline Company ("NBPL") via an agreement that ANR will enter into with NBPL. The Ventura interconnect is a bi-directional feed into NNG which is where the Company holds the majority of its receipt point entitlement on NNG. CenterPoint Energy was awarded the full capacity out 15-years from in-service date with the in-service date being April 1, 2025. CenterPoint Energy would Commoditize the storage demands

the same way as it has with past storage agreements. Fifty percent of the annual charge would be paid by our small and large firm customers through their respective demand rates. The remaining fifty percent would be charged as commoditized demand, to be included in the winter months as part of commodity charges that all customers receive. As part of the agreement, annually the contract quantities on the storage and transportation contracts will need to be adjusted to account for fuel changes on ANR and NBPL to ensure the Maximum Daily Withdrawal Quantity ("MDWQ") to NNG is kept whole at 75,000 Dth/day. The Company requests to submit these rate changes on April 1 in this docket for the remainder of the contract.

Addition of NNG Entitlement

CenterPoint Energy elected to participate in an open season on NNG for Generally Available capacity at the Carlton South receipt point for 300 Dth/day entitlement. Although CenterPoint Energy submitted a bid on the entire volume the awards were prorated across Shippers and awarded annual capacity was 60 Dth/day. The demand rate for this capacity will be at NNG's max tariff rate with no associated construction costs. Due to the continuous increase in construction costs associated with pipeline expansion, it is imperative the Company participates in each Generally Available open season to add additional entitlement to serve its customer growth needs where there are no added costs besides the applicable demand rate.

Northern Lights 2025

The Company is also requesting demand entitlement approval for the NNG's Northern Lights 2025. CenterPoint Energy elected to submit an offer of and was awarded 15,000 Dth/day of additional NNG capacity effective November 1, 2025, which resulted in approximately **[Trade Secret Information Begins... ...Trade Secret Information Ends]** expansion costs. This additional capacity allows for an adequate amount of reserve margin for Winter seasons 2025-2026 and 2026-2027. As part of Docket No. 23-173, the Company requested to include these charges as part of base rates, and these costs are not recognized in this Demand Entitlement filing. The Commission Order confirming the treatment of these costs in Docket No. 23-173 is still pending.

BP Marketer Storage

CenterPoint Energy is currently under contract for 10 Bcf of marketer storage with BP Energy set to expire on April 30, 2025. The Company solicited bids in the Summer of 2024 for the replacement of this contract from six different suppliers and in return offers were received from a total of three suppliers with BP Energy being awarded the full 10 Bcf marketer storage contract effective May 1, 2025, through April 30, 2030 (5-year term). This service provides BP Energy the ability to store 10 Bcf of gas during summer months and CenterPoint Energy to withdrawal the gas during winter months with maximum withdrawal deliverability of 120,000 Dth/day.

The agreed upon demand charge of **[Trade Secret Information Begins... ...Trade Secret Information Ends]** CenterPoint Energy would Commoditize the storage demand the same way as it has with past storage agreements. As not in Docket No. 19-278, the allocation of the total contract cost between demand and commodity expense is proposed to be split based on the contracted annual volume between baseload and swing supplies, which assigns 50.05% to demand costs.

East Cheyenne Storage

CenterPoint Energy requests approval of demand charges associated with the storage partnership transaction between Tenaska and East Cheyenne for firm storage services effective April 1, 2025, to March 31, 2028. East Cheyenne held an open season for 3.5 Bcf maximum storage capacity per year of which Tenaska was awarded 3.2 Bcf adding storage deliverability to the Company's portfolio of 38,400 Dth/day.

East Cheyenne connects to Trailblazer Pipeline Company, LLC ("Trailblazer") which then feeds into NNG. Since the Company's transportation capacity on Trailblazer is Winter Only and there is no transportation capacity currently available on Trailblazer, CenterPoint Energy would not be able to bid on this capacity solely. Tenaska brought this opportunity to CenterPoint Energy in the form of a partnership where Tenaska would hold the storage capacity with the Company's backing with the obligation to deliver the volume to CenterPoint Energy in the Winter at a mutually agreeable NNG receipt point.

For each contract year during the term, CenterPoint Energy shall pay Tenaska an annual storage fee inclusive of storage and transport equal to **[Trade Secret Information Begins... ...Trade Secret Information Ends]** CenterPoint Energy would Commoditize the storage demand the same way as it has with past storage agreements. Fifty percent of the annual charge would be paid by our small and large firm customers through their respective demand rates. The remaining fifty percent would be charged as commoditized demand, to be included in the winter months as part of commodity charges that all customers receive.

This transaction with Tenaska is in addition to the current 2.5 Bcf of East Cheyenne storage currently in the Company's gas supply portfolio. The contract for this was effective April 1, 2024, and CenterPoint Energy and Tenaska have completed a seamless full cycle of storage injection and withdrawal seasons. Firm storage services are the most ideal and prudent tool for a gas utility to have in its supply portfolio to accomplish price protection, stabilization and reasonable costs. Adding layers of firm storage services allows the Company to reduce the amount of physical baseload hedges needed to achieve its desired stabilization percent of 50%.

Other

The Company is also updating an annual \$2.00 rounding difference between what the transmission company is charging CenterPoint Energy and what CenterPoint Energy is charging its customers (See Exhibit A) for Northern Natural Gas FDD storage. The Company is requesting approval to update its document to reflect the costs that are being incurred for this storage.

The Company will make a supplemental filing on November 1, 2025, detailing the seasonal swing rates as they go into effect. Northern Lights 2025 will also go into effect, the volumes will be included on the schedule D of the monthly PGA filing, however, the costs were included in the 2023 Rate Case as part of Rate Base (Docket No. 23-173). Demand charges will also be included here for the storage withdrawal transportation contracts associated with ANR storage which have an effective date of November 1, 2025.

Docket G-008/M-21-138 REQUIRED INFORMATION:

On February 17, 2023, the Minnesota Commission issued an Order, including ordering point 9. In future contract demand entitlement filings, the gas utilities in this docket shall discuss how changes to their pipeline capacity affect their supply diversity and, if pipeline capacity comes at a cost premium but increases supply diversity, provide a meaningful cost/benefit discussion of the tradeoff, including a

comparison with the least-cost capacity option.

CenterPoint Energy is continuously making efforts towards evaluating portfolio enhancement opportunities that would achieve supply diversity and/or increase price stabilization. Whether these opportunities can be achieved by the Company solely or as a joint effort between the Company and a Supplier when the business need makes sense. The Company can potentially be limited on opportunities it can act on given its current pipeline capacity in its portfolio and what is available in the open market. Examples of this are the ANR storage and East Cheyenne storage transactions mentioned above, along with newly added Asset Management Agreement ("AMA") with Tenaska on Viking Gas Transmission ("Viking") effective April 1, 2025, to October 31, 2025.

Given the difficulty in procuring firm storage contracts and scarcity of pipeline storage availability, it is important to recognize accomplishments of CenterPoint Energy's efforts and goals to increase price stabilization during peak winter season when pricing can be extremely volatile. Due to added firm storage service contracts prior to November 2024, the Company increased overall storage in its portfolio by 10.2 Bcf or 33%, with contracts extending out well into the future secured by multiple year terms.

Viking Asset Management Agreement

CenterPoint Energy holds a total of 76,809 Dth/day of year-round Viking capacity. During the summer months, when loads are minimal, and when the full contracted capacity is not needed whether it be operational or due to maintenance, the Company typically releases Viking capacity at the Emerson receipt point to reduce gas cost it pays to the pipeline which is a direct benefit to its customers. Tenaska recognized there is economic and optimization value in this capacity and brought an AMA opportunity to CenterPoint Energy where there would be demand payment made to the Company for the months of the release accompanied with a 60/40 revenue sharing where CenterPoint Energy will receive 60% and Tenaska will receive 40%. Tenaska will be paying the Company a daily demand rate of **[Trade Secret Information Begins... ...Trade Secret Information Ends]** which is greater than or equal to the credits for demand payment it has received over the last three years. This AMA structure does not expose CenterPoint Energy or its customers to any additional costs, rather it guarantees a minimum credit and opportunity for additional cost reduction.

In July 2024, CenterPoint Energy received approval from the Minnesota Public Utilities Commission to implement a diverse set of innovative pilot projects that aim to reduce greenhouse gas emissions and advance decarbonization efforts for our Minnesota customers. The approved plan includes investments in made-in-Minnesota low- and zero-carbon gases like renewable natural gas and green hydrogen, as well as emerging technologies such as networked geothermal systems and onsite carbon capture. The Company is currently in the contract negotiation and approval phase with the selected pilots from the Request for Proposal conducted in Summer 2024.

Pipeline Rate Case Updates:

NNG and Trailblazer are both expected to be filing a rate case in 2025, and while the impacts of these rate cases are unknown at this time, the Company will plan to actively participate in each.

Future Demand Changes

NNG is expected to release the open season for Northern Lights 2027 in April 2025. CenterPoint will be evaluating current NNG entitlement along with customer demand and future customer growth areas and

needs prior to electing to participate.

Customer impact of changes

The Demand Portfolio to be implemented April 1, 2025, will increase the total demand cost by about \$6.9 million on an annual basis. The per-unit demand charge for small volume firm customers will increase April 1, 2025, rate changes by \$0.00574 per therm. The annual effects on an average residential heating customer using 890 therms (2021 Rate Case residential UPC) are an increase in April of \$5.11 per year. In May 2025 the total annual demand cost will increase \$5.4 million. The per-unit demand charge for small volume firm customers will increase May 1, 2025, rate changes by \$0.00446 per therm. The annual effects on an average residential heating customer using 890 therms (2021 Rate Case residential UPC) are an increase in May of \$3.97 per year. The current November 2025 demand cost is projected to be an increase of \$16.8 million on an annual basis. The per-unit demand charge for small volume firm customers would increase \$0.1401 per therm. The annual effects on an average residential heating customer using 890 therms (2021 Rate Case residential UPC) are an increase in November of \$12.47 per year. Final adjustments for November 1, 2025, will be submitted on November 1, 2025, with final demand costs.

B. The Utility's Design Day demand by customer class and the change in Design Day demand, if any, necessitating the demand revision.

Updated Information will be provided in the June 1, 2025, report.

Previous Design Day information provided in Docket 24-146:

CenterPoint Energy's Design Day Estimate for 2024-2025

<u>CenterPoint Energy's Design Day Estimate for 2024-2025</u>		
	<u>Current Year</u>	<u>Prior Year</u>
Requirements	2024-2025	2023-2024
Calculated Design Day	1,521,300	1,500,450
Physical Reserve	36,000	36,000
Total Requirements	1,557,300	1,536,450
 Supply		
Pipeline Entitlement (inc Waterville UG)	1,348,730	1,320,787
Liquefied Natural Gas (LNG)	72,000	72,000
Propane	149,000	149,000
Net Supply	1,569,730	1,541,787
 Reserve Margin Range		
Available Capacity Net Requirements	48,430	41,337
As a Percentage of Total Requirement	3.2%	2.8%
Available including Physical Reserve	12,430	5,337
(Reserve / Design Day)	0.8%	0.3%

CenterPoint Energy's Design Day modeling process was completed in May 2024, using the traditional model and a second analysis of Firm Transport capacity needs. The Company used six years of daily data through the 2023-2024 heating season. The daily data file included was constructed using historical daily throughput with the addition of daily data for dual fuel customers who have migrated to firm service.

(1) Traditional Design Day Model:

CenterPoint Energy's traditional firm Design Day forecasting dataset includes daily firm usage data from all winter days for the past six heating seasons (November 2018 – March 2024 includes the monthly count of firm customers and includes both Heating Degree Days ("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 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 squared of 0.974) and the coefficients are consistent with expectations and are statistically significant. (See Exhibit B1 Traditional for model specifications and statistical test results, and Exhibit B5 for the traditional firm daily data set.)

To account for the limited observations available at extremely cold temperatures, CenterPoint Energy 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 CenterPoint Energy believes is necessary in Minnesota's cold climate and which we have consistently used in the past. CenterPoint Energy's updated Design Day for the traditional firm 2024-2025 heating season is 1,505,000, assuming 90 HDDs. CenterPoint Energy's "traditional" daily dataset includes the data for customers migrated to firm service beginning in 2016 as part of the traditional model, since those customer elections have increased the projected volumes requiring firm service. Combining the now-firm customer data into a single value allows the regression to model with the coincident firm use in the models.

(2) Firm Transport Review: Design Day Model

For the upcoming winter season, the Company believes that with pipeline capacity becoming more expensive and harder to contract for, marketers and their firm service need customers are exploring their choices, and many are expected to return to firm utility sales service. For planning purposes, the Company assumed that approximately fifty percent (50%) of the 2024-2025 customer election for firm transportation service will return to the Company's sales service and that the remaining firm transport customer's demand requirements will be provided by the end-user or an agent on their behalf. (Variations to the Sales Service v. Transport service election has the potential to impact the reserve margin and should be analyzed.) The Company reviewed this group's daily use in order to assess the need for, and the utility's ability to provide, sales service entitlement in the event that customers requested to return to sales service. To the extent possible, the Company's entitlement would be made available to support these customers return to sales service, where they contribute to cost recovery. Final elections aren't expected until Fall 2024.

To model these customers' daily requirements, the Company produced a second model and database to include the historical usage of these customers currently taking firm transport service. We provide a second model for firm transport daily use for the same six-year historical period. CenterPoint Energy estimates that this group of customers could use up to 32,600 Dth/day of capacity on a Design Day, from the model at the upper level of the 95% confidence interval. Because the customer count of customers forecast to take firm transportation service is the same (348 customers) for the whole period, the regression was modeled directly on the combined group usage, instead of the UPC.

The Company provides the results are shown in Exhibit B6 (a)– Firm Transport, and the data set in Exhibit B6(b). CenterPoint Energy has added 50% of these customer's daily requirements to its Design Day, since it believes many of the customers will return to require firm service.

Design Day Overall

Updated Information will be provided in the June 1, 2025, report.

Previous Design Day information provided in Docket 24-146:

CenterPoint Energy uses the regression modeling to be sure we have enough capacity to deliver gas when the temperature is approaching a Design Day scenario. We are extremely cautious about the Design Day estimate. It is critically important that we have the capacity to serve firm customers if a Design Day occurs; using a 95% confidence interval upper limit is responsible, reasonable and prudent to assure sufficient

capacity. By using the 95% confidence level, the likelihood that the actual UPC will be above the estimate is only 2.5%.

	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>
Transportation	1,298,730	1,298,730	1,298,730	1,298,730	1,298,730
Medford	50,000	50,000	50,000	50,000	50,000
Propane	149,000	149,000	149,000	149,000	149,000
LNG	72,000	72,000	72,000	72,000	72,000
Total Capacity	1,569,730	1,569,730	1,569,730	1,569,730	1,569,730
<hr/>					
Current Firm					
Forecast Design Day (C)	1,505,000	1,519,000	1,533,000	1,548,000	1,562,000
Reserve Capacity	4.3%	3.3%	2.4%	1.4%	0.5%
<hr/>					
FT 50%*					
Forecast Design Day (N) 1	16,300	16,300	16,300	16,300	16,300
Forecast Design Day (T) 1	1,521,300	1,535,300	1,549,300	1,564,300	1,578,300
Reserve Capacity 1	3.2%	2.2%	1.3%	0.3%	-0.5%

*Total Firm Transportation (FT) volume estimated @ 32,600. Potential switch to System Firm at 50% level for WS 24-25.

Exhibit B details CenterPoint Energy's design day models, along with related data requested annually by the Department to complete its analysis. The Company worked with the Department on a variety of potential model enhancements at a meeting in early April 2019¹ where it discussed available modeling data and agreed to provide a wider review of potential models in its Demand Entitlement requests and has included models that it reviewed to support its analysis in Exhibit B7.

Note: Exhibit B3 contain trade secret information and contain details on contracted units and rates. Disclosure of this information could 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 is considered trade secret.

Cost Estimates:

Exhibit A, Page 1 shows the March 1, 2025, Annual Demand Cost Estimate provided for comparison purposes to currently billed demand charges as requested in previous demand filings.

Exhibit A, Page 2 reflects the April 1, 2025, Annual Demand Cost Estimate including ANR and NNG FDD

¹ 4/5/2021 – CNP MN Gas Design Day Model and Power BI – reviewed Design Day and the Company's developing Power BI database used for capacity planning.

rate changes.

Exhibit A, Page 3 reflects the May 1, 2025, Annual Demand Cost Estimate including ANR and NNG FDD rate changes.

Exhibit A, Page 4 reflects the projected November 1, 2025, Annual Demand Cost Estimate including 2025 Northern Lights (no additional charges as those have been included in base rates as part of Docket N. 23-173), and NNG FDD rate changes. Does not include Swing reservation as it is too early to determine.

The Company notes that it used the sales volume used to calculate the per-unit demand charge in compliance with Minn. Rules 7825.27 Subp. 5, which says, in part "The adjustment must be computed using test year demand volumes for three years after the end of the utility's most recent general rate case test year." Docket No. G-008/GR-21-435 used a calendar 2022 test year². The Company continues use of the final forecast in this petition.

Note: Exhibit A, pages 1-3 and Exhibit B3 contain trade secret information and contain details on contracted units and rates. Disclosure of this information could 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 is considered trade secret.

C. A summary of the levels of winter versus summer usage for all customer classes.

12 months ended March 2024 (in Dekatherms)

Update will be provided on June 1, 2025, Design Day update filing.

Previous Design Day information provided in Docket 24-146:

Throughput in Dekatherms (Dth)			
Class	Winter	Summer	Total
SALES SERVICE			
Small Firm	69,577,070	33,658,990	103,236,060
Large Firm	508,173	516,558	1,024,731
Small Dual Fuel	2,972,249	1,914,869	4,887,119
Large Dual Fuel	2,860,438	2,999,941	5,860,379
subtotal	75,917,930	39,090,358	115,008,289
TRANSPORT			
Small Firm	2,107,759	1,266,608	3,374,367
Large Firm	15,650,884	19,332,294	34,983,178
Small Dual Fuel	506,067	282,714	788,781
Large Dual Fuel	11,631,578	13,667,514	25,299,092
subtotal	29,896,288	34,549,130	64,445,418

D. A description of Design Day gas supply from all sources under the new level, allocation, or form of demand.

Exhibits A and B contain the detailed pipeline entitlements and other demand costs required. Further design day analysis will be submitted June 1, 2025.

Conclusion

CenterPoint Energy requests approval to implement demand cost changes on April 1, 2025, May 1, 2025,

Mr. Will Seuffert
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April 1, 2025
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NON-PUBLIC DOCUMENT
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and also those proposed to-be effective November 1, 2025. The Company requests permission to increase its per-unit demand costs to recover increased pipeline rates and costs for additional entitlements explained herein.

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

CenterPoint Energy Summary of Exhibits

EXHIBIT A	Page 1 of 4	*Annual Demand Cost Estimate – March 1, 2025
	Page 2 of 4	*Annual Demand Cost Estimate - April 1, 2025
	Page 3 of 4	*Annual Demand Cost Estimate – May 1, 2025
	Page 4 of 4	*Annual Demand Cost Estimate – Projected November 1, 2025

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.

B1	Design Day Study Model Specification – Traditional (As Provided in Docket 24-146. Update will be submitted June 1, 2024)
B2	Heating Degree Day (HDD) data - recent 12-month period
	Historical and Projected Design Day and Peak Day requirements (As Provided in Docket 24-146. Update will be submitted June 1, 2024)
B3	*Demand Profile
B4	Historic gas price change comparisons (As Provided in Docket 24-146. Update will be submitted June 1, 2024)
B5	Firm Sales Design Day Data – Traditional Model (As Provided in Docket 24-146. Update will be submitted June 1, 2024)
B6(a) & (b)	Firm Transport Design Day Model and data (As Provided in Docket 24-146. Update will be submitted June 1, 2024)
B7	Alternate models reviewed. (As Provided in Docket 24-146. Update will be submitted June 1, 2024)

EXHIBIT C	C1	* ANR storage Entitlement Contract
	C2	* Northern Lights 2025 Contract
	C3	* East Cheyenne Contract
	C4	* BP Contract
	C5	* Tenaska_Viking AMA Agreement

EXHIBIT D Intervenor Notification Filing Requirements pursuant to Minn. Rule 7825.2910, Subp. 3.

April 1, 2025

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

PLEASE TAKE NOTICE that on April 1, 2025, CenterPoint Energy filed its request for Changes in Demand Units to be effective April 1, 2025, 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 Donald Wynia.

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

If you have any questions, please contact Donald Wynia at (612) 321-4677.

CenterPoint Energy contact information:

Mail:
Donald Wynia
CenterPoint Energy
505 Nicollet Mall
PO Box 59038
Minneapolis, MN 55459-0038

Email:
Donald.Wynia@CenterPointEnergy.com

Phone:
612-321-4677

CERTIFICATE OF SERVICE

Donald Wynia served the above Request for Change in Demand for 2025-2026 to all persons at the addresses indicated on the attached list by having the document delivered by electronic filing.

A notification of its Request for Change in Demand Units requested as described in Minn. Rules 7825.2910, Subp. 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/

Donald Wynia
Regulatory Analyst, Regulatory Services
CenterPoint Energy

Date: April 1, 2025

Demand Summary

<i>Regression Statistics</i>	
Multiple R	0.987107287
R Square	0.974380795
Adjusted R Square	0.974324178
Standard Error	0.035308417
Observations	908

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	2	42.91095218	21.45547609	17210.03124	0
Residual	905	1.12824931	0.001246684		
Total	907	44.03920149			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	0.073865645	0.007508314	9.83784712	9.11949E-22	0.059129913	0.088601378	0.059129913	0.088601378
HDDs	0.013682694	0.000372594	36.72277013	1.7568E-181	0.012951445	0.014413944	0.012951445	0.014413944
HDDs^2	3.02446E-05	4.40831E-06	6.860830127	1.26853E-11	2.15929E-05	3.88963E-05	2.15929E-05	3.88963E-05

<u>Year</u>	<u>HDDs</u>	<u>Customer #</u>	<u>UPC @ DD</u>	<u>Volume @ DD</u>	<u>UPC @ 95% CI UL</u>	<u>Volume @ 95% CI UL</u>	<u>Diff</u>
2025	90	927,271	1.550	1,437,000	1.623	1,505,000	68,000
2026	90	935,964	1.550	1,451,000	1.623	1,519,000	68,000
2027	90	944,834	1.550	1,464,000	1.623	1,533,000	69,000
2028	90	953,704	1.550	1,478,000	1.623	1,548,000	70,000
2029	90	962,574	1.550	1,492,000	1.623	1,562,000	70,000

**CENTERPOINT ENERGY MINNESOTA GAS
Demand Entitlement: 2024-2025**

**Exhibit B2
DOC Required Information**

ADDITIONAL INFORMATION REQUESTED FROM THE DOC

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

Comes from monthly thing from budget payment plan

		Peak Season (Nov-Mar)	Off Peak (Apr-Oct)	Total Actual
Total Heating Degree Day (April 2023- March 2024)	Actual	4,813	1,162	5,975
	Normal (10 yr) (2014-2023)	5,998	1,371	7,369
Total Annual Firm Sales (In Dekatherms)	(April 2023- March 2024)			115,008,289
Average Annual Firm Customers	(April 2023- March 2024)			917,132
Use per Firm Customer				125.4
Projected Peak Day HDD (Typical - assumed -12 Degrees F.)				77
Projected Design Day HDD (-25 Degree F.)				90

2 Historical and Projected Design Day and Peak Day Requirements

Heating Season	Firm Sales Customers (January)	Design Day Dekatherms	Total Requirements plus Peak Shaving	Firm Peak Day Sendout
2024/2025 P	927,271	1,521,300	1,569,730	NA
2023/2024	919,645	1,500,450	1,541,787	1,087,403
2022/2023	901,449	1,476,600	1,520,284	1,141,458
2021/2022	898,703	1,453,000	1,521,584	1,104,790
2020/2021	885,661	1,418,000	1,486,704	1,146,601

P = projected

Pipeline	Contract Type	Season	Rate Type	Filed June 2023	Filed November 2023	Filed April 2024	Filed November 2024	Filed April 1, 2025	Projected November 1, 2025	Change from November 2024
				23-221	23-221	24-146	24-146	25-XXX	25-XXX	
[TRADE SECRET DATA BEGINS...]										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	Total			2,094,704	2,078,856	2,094,704	2,094,704	2,094,824	2,118,824	120
24										
25										
26	Total NNG Demand Winter			1,300,036	1,290,131	1,300,036	1,300,036	1,300,096	1,315,096	60
27	Total NNG Demand Summer			794,668	788,725	794,668	794,668	794,728	803,728	60
28	Total			2,094,704	2,078,856	2,094,704	2,094,704	2,094,824	2,118,824	120
29										
30	[TRADE SECRET DATA BEGINS...]									
31										0
32										0
33										0
34										
35	[TRADE SECRET DATA BEGINS...]									
36										0
37										0
38										0
39										
40										0
41										0
42										0
43										
44	[TRADE SECRET DATA BEGINS...]									
45										0
46										0
47										0
48										0
49										0
50										0
51										0
52										
53										0
54										0
55										0
56										0
57										0
58										
59										0
60										
61	Total Capacity			1,551,692	1,541,787	1,569,730	1,569,730	1,569,790	1,584,790	60
62	Total Peak-Shaving Capacity/On-line Storage			271,000	271,000	271,000	271,000	271,000	271,000	0
63	Total Annual Transportation (12 month)			871,477	865,534	871,477	871,477	871,537	880,537	60
64	Total Seasonal Transportation (Adj for NNG/Viking overlap)			1,280,692	1,270,787	1,298,730	1,298,730	1,298,790	1,313,790	60
65	Peak Shaving as % of Total Capacity			17.5%	17.6%	17.3%	17.3%	17.3%	17.1%	(0)
66	Annual Transportation as % of Total Capacity			56.2%	56.1%	55.5%	55.5%	55.5%	55.6%	0
67	Seasonal Transportation as % of Total Capacity			82.5%	82.4%	82.7%	82.7%	82.7%	82.9%	0
68	Annual and Seasonal Transportation as % of Total Transportation			59.5%	59.5%	59.8%	59.8%	59.8%	59.9%	(0)
69										
70	Design Day			1,500,450	1,500,450	1,521,300	1,521,300	1,521,300	1,521,300	0
71	Physical Res			36,000	36,000	36,000	36,000	36,000	36,000	0
72	Total			1,536,450	1,536,450	1,557,300	1,557,300	1,557,300	1,557,300	0
73										
74	Pipeline			1,280,692	1,270,787	1,298,730	1,298,730	1,298,790	1,313,790	60
75	Peaking (LNG, Propane, Waterville)			271,000	271,000	271,000	271,000	271,000	271,000	0
76	Net Supply			1,551,692	1,541,787	1,569,730	1,569,730	1,569,790	1,584,790	60
77										
78	Avail Net Cap			15,242	5,337	12,430	12,430	12,490	27,490	60
79	%			1.0%	0.3%	0.8%	0.8%	0.8%	1.8%	0
80										
81	Avail incl Physical			51,242	41,337	48,430	48,430	48,490	63,490	60
82	%			3.4%	2.8%	3.2%	3.2%	3.2%	4.2%	0

Residential	Last Rate Case (G008/GR-21-435)	Last Demand Change November 1, 2024 Demand Change (G008/M-24-146)	March 1, 2025 - PGA	April 1, 2025 Demand Change (G008/M-25-XXX)	Change From Last Rate Case	Change From Last Demand Change	Percent Change (%) From Most Recent PGA	Change (\$) From October to November
Commodity Cost of Gas (WACOG) (4)	\$4.2905	\$2.6289	\$3.3692	\$3.2671	-23.85%	24.28%	-3.03%	(\$0.1021)
Demand Cost of Gas (1)	\$1.2888	\$1.4443	\$1.4443	\$1.5017	16.52%	3.97%	3.97%	\$0.0574
Commodity Margin (2) (3) (5)	\$2.50430	\$2.9019	\$2.9797	\$2.9797	18.98%	2.68%	0.00%	\$0.0000
Total Cost of Gas	\$8.0836	\$6.9751	\$7.7932	\$7.7485	-4.15%	11.09%	-0.57%	(\$0.0447)
Average Annual Usage (Dk)	89	89	89	89				
Average Annual Total Cost of Gas	\$719.44	\$620.78	\$693.59	\$689.62	-4.15%	11.09%	-0.57%	(\$3.9783)
Average Annual Total Demand Cost of Gas								\$5.1086

Commercial/Industrial Firm - A	Last Rate Case (G008/GR-21-435)	Last Demand Change November 1, 2024 Demand Change (G008/M-24-146)	March 1, 2025 - PGA	April 1, 2025 Demand Change (G008/M-25-XXX)	Change From Last Rate Case	Change From Last Demand Change	Percent Change (%) From Most Recent PGA	Change (\$) From October to November
Commodity Cost of Gas (WACOG) (4)	\$4.2905	\$2.6289	\$3.3692	\$3.2671	-23.85%	24.28%	-3.03%	(\$0.1021)
Demand Cost of Gas (1)	\$1.2888	\$1.4443	\$1.4443	\$1.5017	16.52%	3.97%	3.97%	\$0.0574
Commodity Margin (2) (3) (5)	\$2.6411	\$3.8897	\$3.8897	\$3.8897	47.28%	0.00%	0.00%	\$0.0000
Total Cost of Gas	\$8.2204	\$7.9629	\$8.7032	\$8.6585	\$0.0533	8.74%	-0.51%	-4.47%
Average Annual Usage (Dk)	81	81	81	81				
Average Annual Total Cost of Gas	\$664.21	\$643.40	\$703.22	\$701.34	5.59%	9.00%	-0.27%	(\$1.8801)
Average Annual Total Demand Cost of Gas								\$4.64

Commercial/Industrial Firm - B	Last Rate Case (G008/GR-21-435)	Last Demand Change November 1, 2024 Demand Change (G008/M-24-146)	March 1, 2025 - PGA	April 1, 2025 Demand Change (G008/M-25-XXX)	Change From Last Rate Case	Change From Last Demand Change	Percent Change (%) From Most Recent PGA	Change (\$) From October to November
Commodity Cost of Gas (WACOG) (4)	\$4.2905	\$2.6289	\$3.3692	\$3.2671	-23.85%	24.28%	-3.03%	(\$0.1021)
Demand Cost of Gas (1)	\$1.2888	\$1.4443	\$1.4443	\$1.5017	16.52%	3.97%	3.97%	\$0.0574
Commodity Margin (2) (3) (5)	\$2.0380	\$2.4691	\$2.4691	\$2.4691	21.15%	0.00%	0.00%	\$0.0000
Total Cost of Gas	\$7.6173	\$6.5423	\$7.2826	\$7.2379	-4.98%	10.63%	-0.61%	-4.47%
Average Annual Usage (Dk)	730	730	730	731				
Average Annual Total Cost of Gas	\$5,560.63	\$4,775.88	\$5,316.30	\$5,290.90	-4.85%	10.78%	-0.48%	(\$25.3931)
Average Annual Total Demand Cost of Gas								\$41.90

Commercial/Industrial Firm - C	Last Rate Case (G008/GR-21-435)	Last Demand Change November 1, 2024 Demand Change (G008/M-24-146)	March 1, 2025 - PGA	April 1, 2025 Demand Change (G008/M-25-XXX)	Change From Last Rate Case	Change From Last Demand Change	Percent Change (%) From Most Recent PGA	Change (\$) From October to November
Commodity Cost of Gas (WACOG) (4)	\$4.2905	\$2.6289	\$3.3692	\$3.2671	-23.85%	24.28%	-3.03%	(\$0.1021)
Demand Cost of Gas (1)	\$1.2888	\$1.4443	\$1.4443	\$1.5017	16.52%	3.97%	3.97%	\$0.0574
Commodity Margin (2) (3) (5)	\$1.7360	\$1.9325	\$1.9325	\$1.9325	11.32%	0.00%	0.00%	\$0.0000
Total Cost of Gas	\$7.3153	\$6.0057	\$6.7460	\$6.7013	-8.39%	11.58%	-0.66%	-4.47%
Average Annual Usage (Dk)	12,076	12,076	12,076	12,076				
Average Annual Total Cost of Gas	\$88,336.64	\$72,522.43	\$81,462.00	\$80,922.22	-8.39%	11.58%	-0.66%	(\$539.78)
Average Annual Total Demand Cost of Gas								\$693.14

Large General Service	Last Rate Case (G008/GR-21-435)	Last Demand Change November 1, 2024 Demand Change (G008/M-24-146)	March 1, 2025 - PGA	April 1, 2025 Demand Change (G008/M-25-XXX)	Change From Last Rate Case	Change From Last Demand Change	Percent Change (%) From Most Recent PGA	Change (\$) From October to November
Commodity Cost of Gas (WACOG) (4)	\$4.2905	\$3.1141	\$3.3692	\$3.2671	-23.85%	4.91%	-3.03%	(\$0.1021)
Commodity Margin (2) (3) (5)	\$0.8301	\$1.0029	\$1.0029	\$1.0807	30.19%	7.76%	7.76%	\$0.0778
Commodity Charges	\$5.1206	\$4.1170	\$4.3721	\$4.3478	-15.09%	5.61%	-0.56%	(\$0.0243)
LV Demand Cost of Gas (1)	\$9.9733	\$12.3733	\$12.8270	\$15.7572	57.99%	27.35%	22.84%	\$2.9302
LV Demand Delivery Charge	\$4.8303	\$6.3303	\$6.3303	\$6.3303	31.05%	0.00%	0.00%	\$0.0000
Average Annual Usage (Dk)	47,751	47,751	47,751	47,751				
Average Daily MDQ Usage (Dk)	7,282	8,448	8,448	7,150				(1,298)
Average Annual Total Cost of Gas	\$352,316	\$423,966	\$370,615	\$365,539	-13.78%	-1.37%		(\$5,075.61)
Average Annual Total Demand Cost of Gas								\$20,950.93

Summary	Commodity	Demand	Demand	Demand		Total	Total
Change from most recent PGA	Change	Change	Change	Change	Change	Change	Change
Customer Class	(\$/Dk)	(Percent)	(\$/Dk)	(\$/Dk)	(\$/Dk)	(Percent)	
Residential	-\$0.1021	3.97%	\$0.0574	\$0.0000	(\$3.98)	-0.57%	
Commercial/Industrial Firm A	-\$0.1021	3.97%	\$0.0574	\$0.0000	(\$1.88)	-0.27%	
Commercial/Industrial Firm B	-\$0.1021	3.97%	\$0.0574	\$0.0000	(\$25.39)	-0.48%	
Commercial/Industrial Firm C	-\$0.1021	3.97%	\$0.0574	\$0.0000	(\$539.78)	-0.66%	
Large General Service	-\$0.1021	22.84%	\$2.9302	\$0.0000	(\$5,075.61)	-1.37%	

(1) Does not include Demand Smoothing Adjustment

(2) Does not reflect Decoupling, GAP, Interim or GCR Factors.

(3) 2021 Rate Case - tariff value for Last Rate Case and Last Demand Change. Reflect base rate plus CCRA

(4) Actual WACOG for historical timeframes / 2021 Rate Case Base value in Settlement

(5) Actual Billed for historical (Base+CCRA) / 2021 Rate Case Base settled tariff value and CCRA

<u>Date</u>	<u>Firm</u>	<u>Thoughtput</u>	<u>Temperature</u>	<u>Firm</u>	<u>Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
11/01/18		286,847	42.5		865,830	0.331	22.5	506
11/02/18		312,333	40.6		865,830	0.361	24.4	595
11/03/18		342,878	41.2		865,830	0.396	23.8	566
11/04/18		369,657	37.2		865,830	0.427	27.8	773
11/05/18		322,588	42.7		865,830	0.373	22.3	497
11/06/18		461,448	33.4		865,830	0.533	31.6	999
11/07/18		538,248	27.8		865,830	0.622	37.2	1384
11/08/18		566,759	24.0		865,830	0.655	41.0	1681
11/09/18		665,564	17.3		865,830	0.769	47.7	2275
11/10/18		622,047	21.2		865,830	0.718	43.8	1918
11/11/18		605,262	24.3		865,830	0.699	40.7	1656
11/12/18		694,974	15.7		865,830	0.803	49.3	2430
11/13/18		659,474	17.9		865,830	0.762	47.1	2218
11/14/18		474,764	34.0		865,830	0.548	31.0	961
11/15/18		422,447	35.8		865,830	0.488	29.2	853
11/16/18		523,658	28.0		865,830	0.605	37.0	1369
11/17/18		633,888	18.7		865,830	0.732	46.3	2144
11/18/18		588,518	23.2		865,830	0.680	41.8	1747
11/19/18		636,297	22.3		865,830	0.735	42.7	1823
11/20/18		582,541	26.5		865,830	0.673	38.5	1482
11/21/18		560,048	26.5		865,830	0.647	38.5	1482
11/22/18		468,601	35.9		865,830	0.541	29.1	847
11/23/18		368,993	41.4		865,830	0.426	23.6	557
11/24/18		483,158	29.4		865,830	0.558	35.6	1267
11/25/18		624,238	21.6		865,830	0.721	43.4	1884
11/26/18		703,016	17.4		865,830	0.812	47.6	2266
11/27/18		671,283	20.5		865,830	0.775	44.5	1980
11/28/18		605,222	25.3		865,830	0.699	39.7	1576
11/29/18		521,274	30.8		865,830	0.602	34.2	1170
11/30/18		513,409	29.4		865,830	0.593	35.6	1267
12/01/18		527,214	32.6		866,896	0.608	32.4	1050
12/02/18		556,687	29.6		866,896	0.642	35.4	1253
12/03/18		592,203	24.9		866,896	0.683	40.1	1608
12/04/18		629,452	23.3		866,896	0.726	41.7	1739
12/05/18		607,610	24.0		866,896	0.701	41.0	1681
12/06/18		726,713	13.6		866,896	0.838	51.4	2642
12/07/18		694,890	16.9		866,896	0.802	48.1	2314
12/08/18		651,159	21.9		866,896	0.751	43.1	1858
12/09/18		628,830	20.8		866,896	0.725	44.2	1954
12/10/18		669,604	18.3		866,896	0.772	46.7	2181
12/11/18		599,806	23.5		866,896	0.692	41.5	1722
12/12/18		567,275	26.0		866,896	0.654	39.0	1521
12/13/18		540,359	27.5		866,896	0.623	37.5	1406
12/14/18		499,824	29.3		866,896	0.577	35.7	1274
12/15/18		440,813	35.4		866,896	0.508	29.6	876
12/16/18		455,919	34.7		866,896	0.526	30.3	918
12/17/18		500,567	30.1		866,896	0.577	34.9	1218
12/18/18		424,311	38.1		866,896	0.489	26.9	724
12/19/18		424,941	36.8		866,896	0.490	28.2	795
12/20/18		533,382	30.3		866,896	0.615	34.7	1204
12/21/18		578,642	24.4		866,896	0.667	40.6	1648
12/22/18		535,683	28.8		866,896	0.618	36.2	1310
12/23/18		643,442	22.1		866,896	0.742	42.9	1840
12/24/18		599,602	22.0		866,896	0.692	43.0	1849
12/25/18		562,345	25.8		866,896	0.649	39.2	1537
12/26/18		535,852	33.4		866,896	0.618	31.6	999
12/27/18		507,881	33.4		866,896	0.586	31.6	999
12/28/18		729,440	16.1		866,896	0.841	48.9	2391
12/29/18		734,000	14.1		866,896	0.847	50.9	2591
12/30/18		540,129	29.3		866,896	0.623	35.7	1274
12/31/18		729,673	18.3		866,896	0.842	46.7	2181
01/01/19		875,919	4.9		868,055	1.009	60.1	3612
01/02/19		691,184	21.2		868,055	0.796	43.8	1918
01/03/19		498,929	33.9		868,055	0.575	31.1	967
01/04/19		427,207	36.0		868,055	0.492	29.0	841

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
01/05/19	450,719	35.0	868,055	0.519	30.0	900
01/06/19	499,757	35.0	868,055	0.576	30.0	900
01/07/19	464,972	36.3	868,055	0.536	28.7	824
01/08/19	763,669	15.7	868,055	0.880	49.3	2430
01/09/19	790,994	12.2	868,055	0.911	52.8	2788
01/10/19	674,870	20.0	868,055	0.777	45.0	2025
01/11/19	574,122	25.8	868,055	0.661	39.2	1537
01/12/19	554,424	28.8	868,055	0.639	36.2	1310
01/13/19	504,925	33.2	868,055	0.582	31.8	1011
01/14/19	542,919	29.5	868,055	0.625	35.5	1260
01/15/19	653,167	23.2	868,055	0.752	41.8	1747
01/16/19	708,630	16.9	868,055	0.816	48.1	2314
01/17/19	722,258	15.9	868,055	0.832	49.1	2411
01/18/19	886,340	7.1	868,055	1.021	57.9	3352
01/19/19	907,630	(0.8)	868,055	1.046	65.8	4330
01/20/19	901,606	2.6	868,055	1.039	62.4	3894
01/21/19	848,747	13.0	868,055	0.978	52.0	2704
01/22/19	753,951	16.7	868,055	0.869	48.3	2333
01/23/19	686,654	19.5	868,055	0.791	45.5	2070
01/24/19	991,438	(3.6)	868,055	1.142	68.6	4706
01/25/19	978,168	(1.5)	868,055	1.127	66.5	4422
01/26/19	954,672	1.1	868,055	1.100	63.9	4083
01/27/19	936,749	2.0	868,055	1.079	63.0	3969
01/28/19	924,364	2.8	868,055	1.065	62.2	3869
01/29/19	1,253,519	(18.5)	868,055	1.444	83.5	6972
01/30/19	1,243,182	(19.9)	868,055	1.432	84.9	7208
01/31/19	1,075,390	(7.0)	868,055	1.239	72.0	5184
02/01/19	786,328	12.5	868,532	0.905	52.5	2756
02/02/19	498,154	34.4	868,532	0.574	30.6	936
02/03/19	514,714	33.0	868,532	0.593	32.0	1024
02/04/19	867,616	8.0	868,532	0.999	57.0	3249
02/05/19	851,782	9.6	868,532	0.981	55.4	3069
02/06/19	706,492	18.9	868,532	0.813	46.1	2125
02/07/19	892,282	4.8	868,532	1.027	60.2	3624
02/08/19	1,023,411	(7.5)	868,532	1.178	72.5	5256
02/09/19	928,745	3.3	868,532	1.069	61.7	3807
02/10/19	771,312	15.4	868,532	0.888	49.6	2460
02/11/19	659,478	22.7	868,532	0.759	42.3	1789
02/12/19	717,998	16.0	868,532	0.827	49.0	2401
02/13/19	687,867	15.2	868,532	0.792	49.8	2480
02/14/19	835,990	8.6	868,532	0.963	56.4	3181
02/15/19	823,014	4.6	868,532	0.948	60.4	3648
02/16/19	717,138	16.5	868,532	0.826	48.5	2352
02/17/19	718,810	17.6	868,532	0.828	47.4	2247
02/18/19	762,819	11.0	868,532	0.878	54.0	2916
02/19/19	707,930	15.6	868,532	0.815	49.4	2440
02/20/19	676,228	19.5	868,532	0.779	45.5	2070
02/21/19	682,671	14.0	868,532	0.786	51.0	2601
02/22/19	580,947	24.4	868,532	0.669	40.6	1648
02/23/19	574,295	28.1	868,532	0.661	36.9	1362
02/24/19	850,804	5.6	868,532	0.980	59.4	3528
02/25/19	933,759	(0.5)	868,532	1.075	65.5	4290
02/26/19	867,949	6.1	868,532	0.999	58.9	3469
02/27/19	843,214	4.9	868,532	0.971	60.1	3612
02/28/19	749,796	12.7	868,532	0.863	52.3	2735
03/01/19	749,468	12.7	868,615	0.863	52.3	2735
03/02/19	818,400	5.5	868,615	0.942	59.5	3540
03/03/19	981,649	(6.4)	868,615	1.130	71.4	5098
03/04/19	895,226	3.8	868,615	1.031	61.2	3745
03/05/19	809,329	9.9	868,615	0.932	55.1	3036
03/06/19	736,190	13.2	868,615	0.848	51.8	2683
03/07/19	672,948	16.0	868,615	0.775	49.0	2401
03/08/19	513,870	28.8	868,615	0.592	36.2	1310
03/09/19	504,836	32.4	868,615	0.581	32.6	1063
03/10/19	601,528	22.1	868,615	0.693	42.9	1840

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
03/11/19	567,383	22.4	868,615	0.653	42.6	1815
03/12/19	502,820	35.2	868,615	0.579	29.8	888
03/13/19	434,120	39.0	868,615	0.500	26.0	676
03/14/19	486,103	36.0	868,615	0.560	29.0	841
03/15/19	526,390	30.5	868,615	0.606	34.5	1190
03/16/19	497,887	27.9	868,615	0.573	37.1	1376
03/17/19	485,262	31.3	868,615	0.559	33.7	1136
03/18/19	443,203	33.4	868,615	0.510	31.6	999
03/19/19	368,305	38.5	868,615	0.424	26.5	702
03/20/19	382,999	38.5	868,615	0.441	26.5	702
03/21/19	358,607	40.7	868,615	0.413	24.3	590
03/22/19	358,672	38.6	868,615	0.413	26.4	697
03/23/19	304,391	44.7	868,615	0.350	20.3	412
03/24/19	383,242	39.1	868,615	0.441	25.9	671
03/25/19	423,786	36.7	868,615	0.488	28.3	801
03/26/19	321,540	46.6	868,615	0.370	18.4	339
03/27/19	248,157	50.6	868,615	0.286	14.4	207
03/28/19	351,483	42.1	868,615	0.405	22.9	524
03/29/19	363,053	38.9	868,615	0.418	26.1	681
03/30/19	480,836	29.6	868,615	0.554	35.4	1253
03/31/19	451,318	32.5	868,615	0.520	32.5	1056
11/01/19	416,893	36.8	875,951	0.476	28.2	795
11/02/19	475,373	32.9	875,951	0.543	32.1	1030
11/03/19	382,181	39.0	875,951	0.436	26.0	676
11/04/19	479,074	31.2	875,951	0.547	33.8	1142
11/05/19	517,035	28.8	875,951	0.590	36.2	1310
11/06/19	614,044	23.5	875,951	0.701	41.5	1722
11/07/19	653,513	20.7	875,951	0.746	44.3	1962
11/08/19	515,603	30.8	875,951	0.589	34.2	1170
11/09/19	433,430	35.4	875,951	0.495	29.6	876
11/10/19	638,724	21.9	875,951	0.729	43.1	1858
11/11/19	808,939	11.2	875,951	0.923	53.8	2894
11/12/19	732,135	21.0	875,951	0.836	44.0	1936
11/13/19	608,542	25.5	875,951	0.695	39.5	1560
11/14/19	529,304	28.7	875,951	0.604	36.3	1318
11/15/19	459,233	34.9	875,951	0.524	30.1	906
11/16/19	396,819	39.5	875,951	0.453	25.5	650
11/17/19	460,679	34.2	875,951	0.526	30.8	949
11/18/19	441,910	34.8	875,951	0.504	30.2	912
11/19/19	392,332	40.0	875,951	0.448	25.0	625
11/20/19	364,354	42.0	875,951	0.416	23.0	529
11/21/19	572,092	27.3	875,951	0.653	37.7	1421
11/22/19	554,656	26.7	875,951	0.633	38.3	1467
11/23/19	414,580	36.9	875,951	0.473	28.1	790
11/24/19	385,538	40.5	875,951	0.440	24.5	600
11/25/19	415,390	39.7	875,951	0.474	25.3	640
11/26/19	504,300	33.4	875,951	0.576	31.6	999
11/27/19	559,357	28.2	875,951	0.639	36.8	1354
11/28/19	524,100	27.3	875,951	0.598	37.7	1421
11/29/19	504,202	31.9	875,951	0.576	33.1	1096
11/30/19	512,253	32.5	875,951	0.585	32.5	1056
12/01/19	616,925	23.7	877,405	0.703	41.3	1706
12/02/19	600,528	23.2	877,405	0.684	41.8	1747
12/03/19	498,822	31.6	877,405	0.569	33.4	1116
12/04/19	495,271	30.0	877,405	0.564	35.0	1225
12/05/19	526,308	29.5	877,405	0.600	35.5	1260
12/06/19	580,244	23.5	877,405	0.661	41.5	1722
12/07/19	480,865	34.9	877,405	0.548	30.1	906
12/08/19	493,310	33.2	877,405	0.562	31.8	1011
12/09/19	830,218	7.1	877,405	0.946	57.9	3352
12/10/19	949,378	0.4	877,405	1.082	64.6	4173
12/11/19	863,362	6.7	877,405	0.984	58.3	3399
12/12/19	756,307	16.0	877,405	0.862	49.0	2401
12/13/19	711,997	16.8	877,405	0.811	48.2	2323
12/14/19	824,699	7.0	877,405	0.940	58.0	3364

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
12/15/19	785,494	12.5	877,405	0.895	52.5	2756
12/16/19	663,485	22.2	877,405	0.756	42.8	1832
12/17/19	783,343	12.1	877,405	0.893	52.9	2798
12/18/19	828,426	9.6	877,405	0.944	55.4	3069
12/19/19	649,280	24.1	877,405	0.740	40.9	1673
12/20/19	594,008	23.9	877,405	0.677	41.1	1689
12/21/19	483,323	35.4	877,405	0.551	29.6	876
12/22/19	481,372	32.1	877,405	0.549	32.9	1082
12/23/19	491,222	34.3	877,405	0.560	30.7	942
12/24/19	444,766	33.7	877,405	0.507	31.3	980
12/25/19	455,112	30.9	877,405	0.519	34.1	1163
12/26/19	556,315	29.0	877,405	0.634	36.0	1296
12/27/19	573,460	26.4	877,405	0.654	38.6	1490
12/28/19	495,392	34.4	877,405	0.565	30.6	936
12/29/19	458,322	35.7	877,405	0.522	29.3	858
12/30/19	620,418	25.3	877,405	0.707	39.7	1576
12/31/19	669,616	18.0	877,405	0.763	47.0	2209
01/01/20	530,980	31.0	878,480	0.604	34.0	1156
01/02/20	504,334	33.1	878,480	0.574	31.9	1018
01/03/20	548,533	28.7	878,480	0.624	36.3	1318
01/04/20	543,127	27.9	878,480	0.618	37.1	1376
01/05/20	576,865	29.4	878,480	0.657	35.6	1267
01/06/20	551,511	30.5	878,480	0.628	34.5	1190
01/07/20	772,746	14.0	878,480	0.880	51.0	2601
01/08/20	849,509	12.2	878,480	0.967	52.8	2788
01/09/20	623,698	26.8	878,480	0.710	38.2	1459
01/10/20	808,337	12.0	878,480	0.920	53.0	2809
01/11/20	807,524	11.1	878,480	0.919	53.9	2905
01/12/20	742,044	16.6	878,480	0.845	48.4	2343
01/13/20	619,462	26.7	878,480	0.705	38.3	1467
01/14/20	665,189	21.4	878,480	0.757	43.6	1901
01/15/20	892,699	7.2	878,480	1.016	57.8	3341
01/16/20	963,713	0.8	878,480	1.097	64.2	4122
01/17/20	747,798	21.8	878,480	0.851	43.2	1866
01/18/20	903,065	6.3	878,480	1.028	58.7	3446
01/19/20	858,982	7.3	878,480	0.978	57.7	3329
01/20/20	831,986	7.5	878,480	0.947	57.5	3306
01/21/20	750,291	22.4	878,480	0.854	42.6	1815
01/22/20	532,829	33.5	878,480	0.607	31.5	992
01/23/20	535,273	31.5	878,480	0.609	33.5	1122
01/24/20	544,646	33.6	878,480	0.620	31.4	986
01/25/20	545,607	30.4	878,480	0.621	34.6	1197
01/26/20	572,322	26.2	878,480	0.651	38.8	1505
01/27/20	640,371	23.1	878,480	0.729	41.9	1756
01/28/20	691,980	18.5	878,480	0.788	46.5	2162
01/29/20	675,167	20.5	878,480	0.769	44.5	1980
01/30/20	616,082	25.0	878,480	0.701	40.0	1600
01/31/20	528,467	31.2	878,480	0.602	33.8	1142
02/01/20	463,367	35.7	878,977	0.527	29.3	858
02/02/20	442,132	36.5	878,977	0.503	28.5	812
02/03/20	648,924	24.0	878,977	0.738	41.0	1681
02/04/20	728,715	15.8	878,977	0.829	49.2	2421
02/05/20	660,982	20.9	878,977	0.752	44.1	1945
02/06/20	595,979	24.7	878,977	0.678	40.3	1624
02/07/20	702,693	18.0	878,977	0.799	47.0	2209
02/08/20	719,337	12.8	878,977	0.818	52.2	2725
02/09/20	697,289	16.3	878,977	0.793	48.7	2372
02/10/20	633,908	22.0	878,977	0.721	43.0	1849
02/11/20	589,131	27.6	878,977	0.670	37.4	1399
02/12/20	837,145	12.5	878,977	0.952	52.5	2756
02/13/20	1,026,658	(6.3)	878,977	1.168	71.3	5084
02/14/20	816,042	12.0	878,977	0.928	53.0	2809
02/15/20	591,929	24.6	878,977	0.673	40.4	1632
02/16/20	654,882	21.4	878,977	0.745	43.6	1901
02/17/20	595,181	27.6	878,977	0.677	37.4	1399

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
02/18/20	777,723	12.2	878,977	0.885	52.8	2788
02/19/20	898,202	4.4	878,977	1.022	60.6	3672
02/20/20	816,005	10.8	878,977	0.928	54.2	2938
02/21/20	567,204	28.7	878,977	0.645	36.3	1318
02/22/20	471,416	33.2	878,977	0.536	31.8	1011
02/23/20	474,755	34.5	878,977	0.540	30.5	930
02/24/20	477,172	34.2	878,977	0.543	30.8	949
02/25/20	530,614	30.9	878,977	0.604	34.1	1163
02/26/20	608,143	23.2	878,977	0.692	41.8	1747
02/27/20	630,148	21.0	878,977	0.717	44.0	1936
02/28/20	624,936	22.3	878,977	0.711	42.7	1823
02/29/20	469,767	33.1	878,977	0.534	31.9	1018
03/01/20	414,293	38.8	879,753	0.471	26.2	686
03/02/20	455,198	33.0	879,753	0.517	32.0	1024
03/03/20	465,651	34.5	879,753	0.529	30.5	930
03/04/20	412,498	38.1	879,753	0.469	26.9	724
03/05/20	545,515	33.6	879,753	0.620	31.4	986
03/06/20	453,659	33.3	879,753	0.516	31.7	1005
03/07/20	301,499	48.8	879,753	0.343	16.2	262
03/08/20	279,700	49.3	879,753	0.318	15.7	246
03/09/20	491,574	33.7	879,753	0.559	31.3	980
03/10/20	450,672	35.3	879,753	0.512	29.7	882
03/11/20	394,156	39.5	879,753	0.448	25.5	650
03/12/20	477,448	36.5	879,753	0.543	28.5	812
03/13/20	506,764	30.1	879,753	0.576	34.9	1218
03/14/20	536,924	27.3	879,753	0.610	37.7	1421
03/15/20	437,753	34.5	879,753	0.498	30.5	930
03/16/20	502,075	33.2	879,753	0.571	31.8	1011
03/17/20	373,282	38.2	879,753	0.424	26.8	718
03/18/20	367,094	40.5	879,753	0.417	24.5	600
03/19/20	488,953	34.7	879,753	0.556	30.3	918
03/20/20	541,045	25.9	879,753	0.615	39.1	1529
03/21/20	485,310	30.7	879,753	0.552	34.3	1176
03/22/20	423,001	36.5	879,753	0.481	28.5	812
03/23/20	369,157	38.2	879,753	0.420	26.8	718
03/24/20	339,360	43.8	879,753	0.386	21.2	449
03/25/20	391,172	39.5	879,753	0.445	25.5	650
03/26/20	314,067	43.1	879,753	0.357	21.9	480
03/27/20	225,155	50.1	879,753	0.256	14.9	222
03/28/20	368,307	37.2	879,753	0.419	27.8	773
03/29/20	393,520	40.2	879,753	0.447	24.8	615
03/30/20	277,635	46.8	879,753	0.316	18.2	331
03/31/20	274,995	44.5	879,753	0.313	20.5	420
11/01/20	468,431	31.8	888,163	0.527	33.2	1102
11/02/20	316,114	44.0	888,163	0.356	21.0	441
11/03/20	182,934	58.1	888,163	0.206	6.9	48
11/04/20	159,948	58.3	888,163	0.180	6.7	45
11/05/20	154,226	59.2	888,163	0.174	5.8	34
11/06/20	105,477	65.0	888,163	0.119	0.0	0
11/07/20	103,111	63.5	888,163	0.116	1.5	2
11/08/20	99,209	66.0	888,163	0.112	0.0	0
11/09/20	296,745	42.3	888,163	0.334	22.7	515
11/10/20	524,961	27.2	888,163	0.591	37.8	1429
11/11/20	471,633	30.9	888,163	0.531	34.1	1163
11/12/20	588,460	23.2	888,163	0.663	41.8	1747
11/13/20	495,992	29.4	888,163	0.558	35.6	1267
11/14/20	445,713	35.0	888,163	0.502	30.0	900
11/15/20	545,510	28.0	888,163	0.614	37.0	1369
11/16/20	523,117	29.3	888,163	0.589	35.7	1274
11/17/20	502,265	31.2	888,163	0.566	33.8	1142
11/18/20	339,565	45.8	888,163	0.382	19.2	369
11/19/20	311,546	44.4	888,163	0.351	20.6	424
11/20/20	468,088	31.6	888,163	0.527	33.4	1116
11/21/20	427,243	32.3	888,163	0.481	32.7	1069
11/22/20	468,433	32.7	888,163	0.527	32.3	1043

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
11/23/20	467,212	31.9	888,163	0.526	33.1	1096
11/24/20	436,583	35.5	888,163	0.492	29.5	870
11/25/20	439,376	34.4	888,163	0.495	30.6	936
11/26/20	483,870	32.2	888,163	0.545	32.8	1076
11/27/20	472,675	32.8	888,163	0.532	32.2	1037
11/28/20	366,501	41.4	888,163	0.413	23.6	557
11/29/20	555,129	27.7	888,163	0.625	37.3	1391
11/30/20	602,861	21.8	888,163	0.679	43.2	1866
12/01/20	558,126	25.8	889,321	0.628	39.2	1537
12/02/20	487,532	32.3	889,321	0.548	32.7	1069
12/03/20	471,913	32.7	889,321	0.531	32.3	1043
12/04/20	475,511	31.1	889,321	0.535	33.9	1149
12/05/20	426,771	32.8	889,321	0.480	32.2	1037
12/06/20	459,622	33.2	889,321	0.517	31.8	1011
12/07/20	492,035	31.0	889,321	0.553	34.0	1156
12/08/20	462,349	33.4	889,321	0.520	31.6	999
12/09/20	386,881	39.0	889,321	0.435	26.0	676
12/10/20	400,106	38.8	889,321	0.450	26.2	686
12/11/20	498,610	31.2	889,321	0.561	33.8	1142
12/12/20	539,596	27.7	889,321	0.607	37.3	1391
12/13/20	650,084	21.7	889,321	0.731	43.3	1875
12/14/20	745,902	13.6	889,321	0.839	51.4	2642
12/15/20	695,190	20.5	889,321	0.782	44.5	1980
12/16/20	602,747	23.9	889,321	0.678	41.1	1689
12/17/20	588,016	25.8	889,321	0.661	39.2	1537
12/18/20	483,976	34.3	889,321	0.544	30.7	942
12/19/20	604,597	23.2	889,321	0.680	41.8	1747
12/20/20	470,126	33.9	889,321	0.529	31.1	967
12/21/20	567,424	28.1	889,321	0.638	36.9	1362
12/22/20	461,396	38.5	889,321	0.519	26.5	702
12/23/20	746,879	17.5	889,321	0.840	47.5	2256
12/24/20	918,067	0.4	889,321	1.032	64.6	4173
12/25/20	735,882	11.8	889,321	0.827	53.2	2830
12/26/20	645,419	20.2	889,321	0.726	44.8	2007
12/27/20	675,530	18.9	889,321	0.760	46.1	2125
12/28/20	764,413	13.4	889,321	0.860	51.6	2663
12/29/20	689,658	20.1	889,321	0.775	44.9	2016
12/30/20	698,691	18.5	889,321	0.786	46.5	2162
12/31/20	689,098	18.2	889,321	0.775	46.8	2190
01/01/21	662,791	17.1	890,385	0.744	47.9	2294
01/02/21	652,505	17.5	890,385	0.733	47.5	2256
01/03/21	580,069	24.7	890,385	0.651	40.3	1624
01/04/21	547,151	27.8	890,385	0.615	37.2	1384
01/05/21	548,926	27.3	890,385	0.617	37.7	1421
01/06/21	567,159	26.3	890,385	0.637	38.7	1498
01/07/21	638,573	21.2	890,385	0.717	43.8	1918
01/08/21	683,726	17.5	890,385	0.768	47.5	2256
01/09/21	672,799	18.5	890,385	0.756	46.5	2162
01/10/21	595,809	26.6	890,385	0.669	38.4	1475
01/11/21	560,502	26.9	890,385	0.630	38.1	1452
01/12/21	524,929	31.5	890,385	0.590	33.5	1122
01/13/21	470,670	34.2	890,385	0.529	30.8	949
01/14/21	500,591	33.0	890,385	0.562	32.0	1024
01/15/21	520,886	32.7	890,385	0.585	32.3	1043
01/16/21	599,425	24.1	890,385	0.673	40.9	1673
01/17/21	636,572	21.1	890,385	0.715	43.9	1927
01/18/21	675,900	20.1	890,385	0.759	44.9	2016
01/19/21	829,815	9.5	890,385	0.932	55.5	3080
01/20/21	602,137	32.8	890,385	0.676	32.2	1037
01/21/21	725,855	14.9	890,385	0.815	50.1	2510
01/22/21	771,989	12.1	890,385	0.867	52.9	2798
01/23/21	708,137	17.8	890,385	0.795	47.2	2228
01/24/21	667,728	18.0	890,385	0.750	47.0	2209
01/25/21	726,824	16.2	890,385	0.816	48.8	2381
01/26/21	749,799	14.2	890,385	0.842	50.8	2581

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
01/27/21	802,195	11.3	890,385	0.901	53.7	2884
01/28/21	710,850	18.0	890,385	0.798	47.0	2209
01/29/21	661,834	23.7	890,385	0.743	41.3	1706
01/30/21	555,242	30.2	890,385	0.624	34.8	1211
01/31/21	548,471	29.4	890,385	0.616	35.6	1267
02/01/21	611,488	23.2	891,065	0.686	41.8	1747
02/02/21	666,932	19.9	891,065	0.748	45.1	2034
02/03/21	543,536	30.1	891,065	0.610	34.9	1218
02/04/21	786,739	12.1	891,065	0.883	52.9	2798
02/05/21	896,915	3.9	891,065	1.007	61.1	3733
02/06/21	1,059,328	(8.4)	891,065	1.189	73.4	5388
02/07/21	1,040,423	(5.4)	891,065	1.168	70.4	4956
02/08/21	1,023,525	(3.4)	891,065	1.149	68.4	4679
02/09/21	953,897	2.1	891,065	1.071	62.9	3956
02/10/21	998,542	(1.7)	891,065	1.121	66.7	4449
02/11/21	1,076,188	(5.3)	891,065	1.208	70.3	4942
02/12/21	1,068,183	(6.9)	891,065	1.199	71.9	5170
02/13/21	1,110,341	(10.0)	891,065	1.246	75.0	5625
02/14/21	1,146,601	(11.1)	891,065	1.287	76.1	5791
02/15/21	1,094,233	(7.0)	891,065	1.228	72.0	5184
02/16/21	971,927	2.8	891,065	1.091	62.2	3869
02/17/21	897,286	7.9	891,065	1.007	57.1	3260
02/18/21	823,825	10.2	891,065	0.925	54.8	3003
02/19/21	791,372	9.2	891,065	0.888	55.8	3114
02/20/21	673,027	19.3	891,065	0.755	45.7	2088
02/21/21	604,459	26.1	891,065	0.678	38.9	1513
02/22/21	473,822	36.8	891,065	0.532	28.2	795
02/23/21	473,551	35.3	891,065	0.531	29.7	882
02/24/21	481,474	31.3	891,065	0.540	33.7	1136
02/25/21	498,189	31.3	891,065	0.559	33.7	1136
02/26/21	477,299	34.9	891,065	0.536	30.1	906
02/27/21	396,102	39.1	891,065	0.445	25.9	671
02/28/21	591,318	22.9	891,065	0.664	42.1	1772
03/01/21	634,562	21.5	891,920	0.711	43.5	1892
03/02/21	432,518	37.3	891,920	0.485	27.7	767
03/03/21	394,741	38.8	891,920	0.443	26.2	686
03/04/21	391,328	38.7	891,920	0.439	26.3	692
03/05/21	416,016	35.1	891,920	0.466	29.9	894
03/06/21	379,816	38.9	891,920	0.426	26.1	681
03/07/21	307,253	47.1	891,920	0.344	17.9	320
03/08/21	264,639	48.3	891,920	0.297	16.7	279
03/09/21	225,114	52.4	891,920	0.252	12.6	159
03/10/21	414,577	38.6	891,920	0.465	26.4	697
03/11/21	412,255	36.3	891,920	0.462	28.7	824
03/12/21	400,925	36.8	891,920	0.450	28.2	795
03/13/21	284,668	46.1	891,920	0.319	18.9	357
03/14/21	414,670	39.2	891,920	0.465	25.8	666
03/15/21	541,165	29.5	891,920	0.607	35.5	1260
03/16/21	471,339	32.9	891,920	0.528	32.1	1030
03/17/21	439,164	36.3	891,920	0.492	28.7	824
03/18/21	379,369	41.1	891,920	0.425	23.9	571
03/19/21	349,238	40.6	891,920	0.392	24.4	595
03/20/21	276,650	48.5	891,920	0.310	16.5	272
03/21/21	256,220	51.5	891,920	0.287	13.5	182
03/22/21	246,967	51.0	891,920	0.277	14.0	196
03/23/21	309,020	47.0	891,920	0.346	18.0	324
03/24/21	407,249	38.4	891,920	0.457	26.6	708
03/25/21	354,200	39.2	891,920	0.397	25.8	666
03/26/21	337,177	40.8	891,920	0.378	24.2	586
03/27/21	396,568	38.1	891,920	0.445	26.9	724
03/28/21	365,949	40.3	891,920	0.410	24.7	610
03/29/21	209,139	58.7	891,920	0.234	6.3	40
03/30/21	466,498	32.2	891,920	0.523	32.8	1076
03/31/21	534,383	28.0	891,920	0.599	37.0	1369
11/01/21	385,734	37.9	898,600	0.429	27.1	734

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
11/02/21	387,953	37.2	898,600	0.432	27.8	773
11/03/21	375,697	36.7	898,600	0.418	28.3	801
11/04/21	313,235	43.7	898,600	0.349	21.3	454
11/05/21	223,501	52.3	898,600	0.249	12.7	161
11/06/21	188,651	53.5	898,600	0.210	11.5	132
11/07/21	209,856	51.9	898,600	0.234	13.1	172
11/08/21	281,887	45.6	898,600	0.314	19.4	376
11/09/21	307,794	44.2	898,600	0.343	20.8	433
11/10/21	297,512	45.5	898,600	0.331	19.5	380
11/11/21	402,393	36.4	898,600	0.448	28.6	818
11/12/21	434,665	34.7	898,600	0.484	30.3	918
11/13/21	467,244	31.6	898,600	0.520	33.4	1116
11/14/21	481,071	30.5	898,600	0.535	34.5	1190
11/15/21	477,331	31.9	898,600	0.531	33.1	1096
11/16/21	395,153	40.4	898,600	0.440	24.6	605
11/17/21	484,892	33.1	898,600	0.540	31.9	1018
11/18/21	582,064	26.3	898,600	0.648	38.7	1498
11/19/21	480,406	34.7	898,600	0.535	30.3	918
11/20/21	409,912	36.8	898,600	0.456	28.2	795
11/21/21	577,549	25.7	898,600	0.643	39.3	1544
11/22/21	566,858	27.9	898,600	0.631	37.1	1376
11/23/21	335,318	45.9	898,600	0.373	19.1	365
11/24/21	477,920	28.7	898,600	0.532	36.3	1318
11/25/21	618,904	18.3	898,600	0.689	46.7	2181
11/26/21	519,763	30.7	898,600	0.578	34.3	1176
11/27/21	463,856	32.4	898,600	0.516	32.6	1063
11/28/21	462,841	34.3	898,600	0.515	30.7	942
11/29/21	380,956	38.9	898,600	0.424	26.1	681
11/30/21	378,598	39.4	898,600	0.421	25.6	655
12/01/21	336,053	45.3	900,243	0.373	19.7	388
12/02/21	354,566	39.7	900,243	0.394	25.3	640
12/03/21	426,785	34.7	900,243	0.474	30.3	918
12/04/21	505,785	30.5	900,243	0.562	34.5	1190
12/05/21	583,524	27.8	900,243	0.648	37.2	1384
12/06/21	855,806	6.8	900,243	0.951	58.2	3387
12/07/21	797,775	10.8	900,243	0.886	54.2	2938
12/08/21	689,883	21.1	900,243	0.766	43.9	1927
12/09/21	511,621	31.4	900,243	0.568	33.6	1129
12/10/21	559,622	28.0	900,243	0.622	37.0	1369
12/11/21	560,561	26.0	900,243	0.623	39.0	1521
12/12/21	515,768	31.1	900,243	0.573	33.9	1149
12/13/21	476,735	33.8	900,243	0.530	31.2	973
12/14/21	418,718	39.3	900,243	0.465	25.7	660
12/15/21	359,278	42.2	900,243	0.399	22.8	520
12/16/21	721,065	16.5	900,243	0.801	48.5	2352
12/17/21	708,969	17.7	900,243	0.788	47.3	2237
12/18/21	738,112	14.1	900,243	0.820	50.9	2591
12/19/21	650,914	25.7	900,243	0.723	39.3	1544
12/20/21	735,264	15.2	900,243	0.817	49.8	2480
12/21/21	799,738	12.8	900,243	0.888	52.2	2725
12/22/21	663,709	22.3	900,243	0.737	42.7	1823
12/23/21	488,669	33.8	900,243	0.543	31.2	973
12/24/21	484,233	31.8	900,243	0.538	33.2	1102
12/25/21	676,476	18.3	900,243	0.751	46.7	2181
12/26/21	627,532	28.0	900,243	0.697	37.0	1369
12/27/21	774,434	12.3	900,243	0.860	52.7	2777
12/28/21	843,224	8.8	900,243	0.937	56.2	3158
12/29/21	877,316	7.0	900,243	0.975	58.0	3364
12/30/21	709,130	21.3	900,243	0.788	43.7	1910
12/31/21	876,571	4.3	900,243	0.974	60.7	3684
01/01/22	1,080,026	(9.5)	901,383	1.198	74.5	5550
01/02/22	956,661	2.0	901,383	1.061	63.0	3969
01/03/22	738,445	19.1	901,383	0.819	45.9	2107
01/04/22	676,104	23.6	901,383	0.750	41.4	1714
01/05/22	934,166	3.7	901,383	1.036	61.3	3758

<u>Date</u>	<u>Firm</u>	<u>Thoughtput</u>	<u>Temperature</u>	<u>Firm</u>	<u>Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
01/06/22		1,104,790	(9.9)		901,383	1.226	74.9	5610
01/07/22		970,634	6.3		901,383	1.077	58.7	3446
01/08/22		828,179	13.0		901,383	0.919	52.0	2704
01/09/22		978,941	(0.6)		901,383	1.086	65.6	4303
01/10/22		957,225	4.1		901,383	1.062	60.9	3709
01/11/22		595,327	31.2		901,383	0.660	33.8	1142
01/12/22		501,187	32.4		901,383	0.556	32.6	1063
01/13/22		579,761	27.4		901,383	0.643	37.6	1414
01/14/22		808,940	11.1		901,383	0.897	53.9	2905
01/15/22		798,666	11.3		901,383	0.886	53.7	2884
01/16/22		676,333	21.7		901,383	0.750	43.3	1875
01/17/22		605,885	25.7		901,383	0.672	39.3	1544
01/18/22		696,481	18.8		901,383	0.773	46.2	2134
01/19/22		1,022,222	(1.8)		901,383	1.134	66.8	4462
01/20/22		1,061,953	(3.2)		901,383	1.178	68.2	4651
01/21/22		857,084	15.2		901,383	0.951	49.8	2480
01/22/22		859,740	5.6		901,383	0.954	59.4	3528
01/23/22		892,213	4.5		901,383	0.990	60.5	3660
01/24/22		954,126	0.4		901,383	1.059	64.6	4173
01/25/22		1,074,415	(6.7)		901,383	1.192	71.7	5141
01/26/22		793,701	21.1		901,383	0.881	43.9	1927
01/27/22		802,717	11.3		901,383	0.891	53.7	2884
01/28/22		871,590	8.2		901,383	0.967	56.8	3226
01/29/22		693,994	19.7		901,383	0.770	45.3	2052
01/30/22		725,546	19.4		901,383	0.805	45.6	2079
01/31/22		654,788	26.2		901,383	0.726	38.8	1505
02/01/22		870,352	7.2		902,020	0.965	57.8	3341
02/02/22		1,009,194	(1.5)		902,020	1.119	66.5	4422
02/03/22		980,124	0.8		902,020	1.087	64.2	4122
02/04/22		956,943	2.4		902,020	1.061	62.6	3919
02/05/22		754,506	18.4		902,020	0.836	46.6	2172
02/06/22		850,705	9.1		902,020	0.943	55.9	3125
02/07/22		796,259	14.8		902,020	0.883	50.2	2520
02/08/22		519,320	34.8		902,020	0.576	30.2	912
02/09/22		645,313	24.4		902,020	0.715	40.6	1648
02/10/22		598,301	30.5		902,020	0.663	34.5	1190
02/11/22		879,187	7.4		902,020	0.975	57.6	3318
02/12/22		956,531	1.1		902,020	1.060	63.9	4083
02/13/22		892,648	5.9		902,020	0.990	59.1	3493
02/14/22		776,349	13.1		902,020	0.861	51.9	2694
02/15/22		644,035	25.7		902,020	0.714	39.3	1544
02/16/22		745,240	15.7		902,020	0.826	49.3	2430
02/17/22		905,643	4.7		902,020	1.004	60.3	3636
02/18/22		890,116	11.8		902,020	0.987	53.2	2830
02/19/22		726,888	21.5		902,020	0.806	43.5	1892
02/20/22		546,002	31.5		902,020	0.605	33.5	1122
02/21/22		807,622	17.0		902,020	0.895	48.0	2304
02/22/22		974,392	3.5		902,020	1.080	61.5	3782
02/23/22		924,861	4.1		902,020	1.025	60.9	3709
02/24/22		896,971	8.1		902,020	0.994	56.9	3238
02/25/22		816,098	10.2		902,020	0.905	54.8	3003
02/26/22		627,415	25.1		902,020	0.696	39.9	1592
02/27/22		552,523	25.5		902,020	0.613	39.5	1560
02/28/22		445,228	33.0		902,020	0.494	32.0	1024
03/01/22		459,125	33.4		902,332	0.509	31.6	999
03/02/22		605,550	24.7		902,332	0.671	40.3	1624
03/03/22		632,372	23.3		902,332	0.701	41.7	1739
03/04/22		521,436	33.5		902,332	0.578	31.5	992
03/05/22		530,558	30.7		902,332	0.588	34.3	1176
03/06/22		602,544	23.8		902,332	0.668	41.2	1697
03/07/22		585,620	25.1		902,332	0.649	39.9	1592
03/08/22		586,293	26.5		902,332	0.650	38.5	1482
03/09/22		761,459	13.2		902,332	0.844	51.8	2683
03/10/22		717,192	19.1		902,332	0.795	45.9	2107
03/11/22		879,023	5.4		902,332	0.974	59.6	3552

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
03/12/22	616,208	23.4	902,332	0.683	41.6	1731
03/13/22	433,921	37.3	902,332	0.481	27.7	767
03/14/22	515,930	32.0	902,332	0.572	33.0	1089
03/15/22	350,805	43.0	902,332	0.389	22.0	484
03/16/22	317,112	46.0	902,332	0.351	19.0	361
03/17/22	365,794	39.3	902,332	0.405	25.7	660
03/18/22	397,234	36.1	902,332	0.440	28.9	835
03/19/22	348,131	38.8	902,332	0.386	26.2	686
03/20/22	254,824	47.9	902,332	0.282	17.1	292
03/21/22	241,480	52.1	902,332	0.268	12.9	166
03/22/22	446,969	37.4	902,332	0.495	27.6	762
03/23/22	496,482	34.3	902,332	0.550	30.7	942
03/24/22	393,403	40.2	902,332	0.436	24.8	615
03/25/22	560,955	31.8	902,332	0.622	33.2	1102
03/26/22	595,440	26.3	902,332	0.660	38.7	1498
03/27/22	587,917	23.6	902,332	0.652	41.4	1714
03/28/22	486,672	33.6	902,332	0.539	31.4	986
03/29/22	470,969	36.4	902,332	0.522	28.6	818
03/30/22	517,216	33.0	902,332	0.573	32.0	1024
03/31/22	541,152	29.6	902,332	0.600	35.4	1253
11/01/22	149,771	60.0	908,441	0.165	5.0	25
11/02/22	97,536	66.5	908,441	0.107	0.0	0
11/03/22	155,029	54.0	908,441	0.171	11.0	121
11/04/22	334,528	37.6	908,441	0.368	27.4	751
11/05/22	354,764	39.6	908,441	0.391	25.4	645
11/06/22	364,190	39.3	908,441	0.401	25.7	660
11/07/22	434,814	35.8	908,441	0.479	29.2	853
11/08/22	308,573	47.6	908,441	0.340	17.4	303
11/09/22	165,016	63.3	908,441	0.182	1.7	3
11/10/22	392,523	37.0	908,441	0.432	28.0	784
11/11/22	530,880	29.0	908,441	0.584	36.0	1296
11/12/22	543,025	27.1	908,441	0.598	37.9	1436
11/13/22	553,807	26.5	908,441	0.610	38.5	1482
11/14/22	521,226	29.5	908,441	0.574	35.5	1260
11/15/22	490,570	31.0	908,441	0.540	34.0	1156
11/16/22	552,363	26.2	908,441	0.608	38.8	1505
11/17/22	624,633	24.2	908,441	0.688	40.8	1665
11/18/22	669,509	19.5	908,441	0.737	45.5	2070
11/19/22	723,908	13.7	908,441	0.797	51.3	2632
11/20/22	565,058	25.4	908,441	0.622	39.6	1568
11/21/22	562,498	27.4	908,441	0.619	37.6	1414
11/22/22	504,258	32.0	908,441	0.555	33.0	1089
11/23/22	402,049	36.4	908,441	0.443	28.6	818
11/24/22	436,457	36.5	908,441	0.480	28.5	812
11/25/22	359,358	41.2	908,441	0.396	23.8	566
11/26/22	342,441	43.4	908,441	0.377	21.6	467
11/27/22	458,702	31.9	908,441	0.505	33.1	1096
11/28/22	471,296	35.1	908,441	0.519	29.9	894
11/29/22	641,133	23.5	908,441	0.706	41.5	1722
11/30/22	743,089	14.0	908,441	0.818	51.0	2601
12/01/22	570,217	29.8	910,230	0.626	35.2	1239
12/02/22	637,273	21.3	910,230	0.700	43.7	1910
12/03/22	751,249	11.3	910,230	0.825	53.7	2884
12/04/22	563,426	28.6	910,230	0.619	36.4	1325
12/05/22	653,388	20.6	910,230	0.718	44.4	1971
12/06/22	645,798	22.6	910,230	0.709	42.4	1798
12/07/22	756,548	12.8	910,230	0.831	52.2	2725
12/08/22	611,951	26.0	910,230	0.672	39.0	1521
12/09/22	534,240	30.9	910,230	0.587	34.1	1163
12/10/22	483,938	33.1	910,230	0.532	31.9	1018
12/11/22	497,521	32.1	910,230	0.547	32.9	1082
12/12/22	514,344	34.4	910,230	0.565	30.6	936
12/13/22	516,399	34.3	910,230	0.567	30.7	942
12/14/22	485,999	34.7	910,230	0.534	30.3	918
12/15/22	498,889	31.0	910,230	0.548	34.0	1156

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
12/16/22	568,111	25.7	910,230	0.624	39.3	1544
12/17/22	749,327	13.0	910,230	0.823	52.0	2704
12/18/22	870,826	3.6	910,230	0.957	61.4	3770
12/19/22	877,424	4.0	910,230	0.964	61.0	3721
12/20/22	1,008,302	(3.0)	910,230	1.108	68.0	4624
12/21/22	1,043,783	(3.4)	910,230	1.147	68.4	4679
12/22/22	1,141,458	(10.0)	910,230	1.254	75.0	5625
12/23/22	1,116,705	(3.7)	910,230	1.227	68.7	4720
12/24/22	1,004,445	0.5	910,230	1.104	64.5	4160
12/25/22	912,713	4.5	910,230	1.003	60.5	3660
12/26/22	865,159	7.0	910,230	0.950	58.0	3364
12/27/22	674,972	17.8	910,230	0.742	47.2	2228
12/28/22	505,195	34.5	910,230	0.555	30.5	930
12/29/22	578,966	27.5	910,230	0.636	37.5	1406
12/30/22	628,602	18.9	910,230	0.691	46.1	2125
12/31/22	514,120	30.8	910,230	0.565	34.2	1170
01/01/23	566,531	25.1	911,310	0.622	39.9	1592
01/02/23	624,566	24.8	911,310	0.685	40.2	1616
01/03/23	598,782	29.3	911,310	0.657	35.7	1274
01/04/23	557,326	30.2	911,310	0.612	34.8	1211
01/05/23	664,444	19.6	911,310	0.729	45.4	2061
01/06/23	789,170	7.9	911,310	0.866	57.1	3260
01/07/23	772,602	9.4	911,310	0.848	55.6	3091
01/08/23	721,517	15.0	911,310	0.792	50.0	2500
01/09/23	601,119	25.0	911,310	0.660	40.0	1600
01/10/23	571,373	27.1	911,310	0.627	37.9	1436
01/11/23	552,723	29.8	911,310	0.607	35.2	1239
01/12/23	675,347	20.8	911,310	0.741	44.2	1954
01/13/23	719,642	16.5	911,310	0.790	48.5	2352
01/14/23	581,588	29.0	911,310	0.638	36.0	1296
01/15/23	464,117	35.0	911,310	0.509	30.0	900
01/16/23	503,507	33.2	911,310	0.553	31.8	1011
01/17/23	523,952	32.0	911,310	0.575	33.0	1089
01/18/23	542,064	30.8	911,310	0.595	34.2	1170
01/19/23	561,187	28.5	911,310	0.616	36.5	1332
01/20/23	622,983	21.0	911,310	0.684	44.0	1936
01/21/23	631,108	21.2	911,310	0.693	43.8	1918
01/22/23	695,704	16.0	911,310	0.763	49.0	2401
01/23/23	641,861	23.2	911,310	0.704	41.8	1747
01/24/23	598,000	24.9	911,310	0.656	40.1	1608
01/25/23	712,183	18.3	911,310	0.781	46.7	2181
01/26/23	725,374	17.7	911,310	0.796	47.3	2237
01/27/23	759,812	12.7	911,310	0.834	52.3	2735
01/28/23	916,775	3.0	911,310	1.006	62.0	3844
01/29/23	949,282	0.2	911,310	1.042	64.8	4199
01/30/23	1,038,394	(3.6)	911,310	1.139	68.6	4706
01/31/23	938,344	5.4	911,310	1.030	59.6	3552
02/01/23	796,812	14.0	911,789	0.874	51.0	2601
02/02/23	988,389	(2.1)	911,789	1.084	67.1	4502
02/03/23	1,013,623	1.9	911,789	1.112	63.1	3982
02/04/23	688,349	22.0	911,789	0.755	43.0	1849
02/05/23	628,012	22.3	911,789	0.689	42.7	1823
02/06/23	539,858	33.3	911,789	0.592	31.7	1005
02/07/23	523,736	29.4	911,789	0.574	35.6	1267
02/08/23	472,817	33.8	911,789	0.519	31.2	973
02/09/23	646,745	23.6	911,789	0.709	41.4	1714
02/10/23	608,745	26.1	911,789	0.668	38.9	1513
02/11/23	495,657	30.7	911,789	0.544	34.3	1176
02/12/23	485,420	32.1	911,789	0.532	32.9	1082
02/13/23	434,173	37.7	911,789	0.476	27.3	745
02/14/23	478,034	36.8	911,789	0.524	28.2	795
02/15/23	677,357	19.1	911,789	0.743	45.9	2107
02/16/23	797,164	12.8	911,789	0.874	52.2	2725
02/17/23	646,832	24.0	911,789	0.709	41.0	1681
02/18/23	514,801	30.6	911,789	0.565	34.4	1183

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
02/19/23	611,257	24.2	911,789	0.670	40.8	1665
02/20/23	745,896	18.3	911,789	0.818	46.7	2181
02/21/23	799,627	13.3	911,789	0.877	51.7	2673
02/22/23	760,149	18.0	911,789	0.834	47.0	2209
02/23/23	864,364	4.7	911,789	0.948	60.3	3636
02/24/23	834,328	7.3	911,789	0.915	57.7	3329
02/25/23	688,922	17.0	911,789	0.756	48.0	2304
02/26/23	558,019	28.6	911,789	0.612	36.4	1325
02/27/23	558,886	29.1	911,789	0.613	35.9	1289
02/28/23	472,887	33.9	911,789	0.519	31.1	967
03/01/23	598,741	26.4	912,124	0.656	38.6	1490
03/02/23	590,093	25.1	912,124	0.647	39.9	1592
03/03/23	476,527	31.5	912,124	0.522	33.5	1122
03/04/23	529,967	28.1	912,124	0.581	36.9	1362
03/05/23	507,640	33.7	912,124	0.557	31.3	980
03/06/23	527,101	31.8	912,124	0.578	33.2	1102
03/07/23	456,507	35.3	912,124	0.500	29.7	882
03/08/23	510,684	32.7	912,124	0.560	32.3	1043
03/09/23	525,856	30.1	912,124	0.577	34.9	1218
03/10/23	527,855	30.2	912,124	0.579	34.8	1211
03/11/23	516,809	29.4	912,124	0.567	35.6	1267
03/12/23	581,830	25.8	912,124	0.638	39.2	1537
03/13/23	614,198	21.8	912,124	0.673	43.2	1866
03/14/23	553,109	28.7	912,124	0.606	36.3	1318
03/15/23	395,118	41.9	912,124	0.433	23.1	534
03/16/23	645,433	24.2	912,124	0.708	40.8	1665
03/17/23	810,460	11.1	912,124	0.889	53.9	2905
03/18/23	718,949	16.9	912,124	0.788	48.1	2314
03/19/23	550,983	31.6	912,124	0.604	33.4	1116
03/20/23	500,056	31.2	912,124	0.548	33.8	1142
03/21/23	455,333	37.1	912,124	0.499	27.9	778
03/22/23	552,354	28.8	912,124	0.606	36.2	1310
03/23/23	510,728	29.1	912,124	0.560	35.9	1289
03/24/23	405,315	35.7	912,124	0.444	29.3	858
03/25/23	420,029	35.3	912,124	0.460	29.7	882
03/26/23	456,253	32.9	912,124	0.500	32.1	1030
03/27/23	522,463	29.8	912,124	0.573	35.2	1239
03/28/23	622,564	22.4	912,124	0.683	42.6	1815
03/29/23	632,016	21.8	912,124	0.693	43.2	1866
03/30/23	540,353	33.5	912,124	0.592	31.5	992
03/31/23	530,637	32.8	912,124	0.582	32.2	1037
11/01/23	511,400	31.7	918,184	0.557	33.3	1109
11/02/23	408,526	38.9	918,184	0.445	26.1	681
11/03/23	369,436	39.4	918,184	0.402	25.6	655
11/04/23	337,328	43.4	918,184	0.367	21.6	467
11/05/23	234,013	54.2	918,184	0.255	10.8	117
11/06/23	324,004	42.7	918,184	0.353	22.3	497
11/07/23	327,463	44.5	918,184	0.357	20.5	420
11/08/23	343,448	41.9	918,184	0.374	23.1	534
11/09/23	366,505	40.8	918,184	0.399	24.2	586
11/10/23	401,574	37.5	918,184	0.437	27.5	756
11/11/23	362,874	42.6	918,184	0.395	22.4	502
11/12/23	283,544	48.3	918,184	0.309	16.7	279
11/13/23	263,921	49.8	918,184	0.287	15.2	231
11/14/23	221,395	54.7	918,184	0.241	10.3	106
11/15/23	221,796	52.3	918,184	0.242	12.7	161
11/16/23	291,299	44.7	918,184	0.317	20.3	412
11/17/23	375,450	39.0	918,184	0.409	26.0	676
11/18/23	317,929	42.7	918,184	0.346	22.3	497
11/19/23	285,013	43.3	918,184	0.310	21.7	471
11/20/23	330,437	43.3	918,184	0.360	21.7	471
11/21/23	471,659	33.5	918,184	0.514	31.5	992
11/22/23	419,839	38.1	918,184	0.457	26.9	724
11/23/23	583,690	23.4	918,184	0.636	41.6	1731
11/24/23	585,348	22.7	918,184	0.638	42.3	1789

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
11/25/23	555,235	25.0	918,184	0.605	40.0	1600
11/26/23	652,748	23.5	918,184	0.711	41.5	1722
11/27/23	786,433	12.8	918,184	0.857	52.2	2725
11/28/23	616,488	23.6	918,184	0.671	41.4	1714
11/29/23	458,847	38.4	918,184	0.500	26.6	708
11/30/23	511,398	30.4	918,184	0.557	34.6	1197
12/01/23	545,816	28.3	920,250	0.593	36.7	1347
12/02/23	465,833	34.0	920,250	0.506	31.0	961
12/03/23	477,140	32.6	920,250	0.518	32.4	1050
12/04/23	510,566	32.4	920,250	0.555	32.6	1063
12/05/23	567,779	27.6	920,250	0.617	37.4	1399
12/06/23	434,620	39.7	920,250	0.472	25.3	640
12/07/23	343,250	43.8	920,250	0.373	21.2	449
12/08/23	378,801	41.4	920,250	0.412	23.6	557
12/09/23	527,816	28.8	920,250	0.574	36.2	1310
12/10/23	609,425	23.4	920,250	0.662	41.6	1731
12/11/23	607,637	27.2	920,250	0.660	37.8	1429
12/12/23	616,017	26.0	920,250	0.669	39.0	1521
12/13/23	508,252	36.1	920,250	0.552	28.9	835
12/14/23	377,948	44.3	920,250	0.411	20.7	428
12/15/23	397,852	39.9	920,250	0.432	25.1	630
12/16/23	412,320	37.5	920,250	0.448	27.5	756
12/17/23	546,467	30.2	920,250	0.594	34.8	1211
12/18/23	674,227	19.8	920,250	0.733	45.2	2043
12/19/23	527,282	32.7	920,250	0.573	32.3	1043
12/20/23	474,424	34.5	920,250	0.516	30.5	930
12/21/23	436,600	37.2	920,250	0.474	27.8	773
12/22/23	365,767	40.8	920,250	0.397	24.2	586
12/23/23	311,006	46.0	920,250	0.338	19.0	361
12/24/23	272,518	48.4	920,250	0.296	16.6	276
12/25/23	294,059	49.3	920,250	0.320	15.7	246
12/26/23	455,726	35.1	920,250	0.495	29.9	894
12/27/23	504,266	31.3	920,250	0.548	33.7	1136
12/28/23	524,848	29.8	920,250	0.570	35.2	1239
12/29/23	473,762	31.7	920,250	0.515	33.3	1109
12/30/23	573,626	29.1	920,250	0.623	35.9	1289
12/31/23	599,135	24.4	920,250	0.651	40.6	1648
01/01/24	633,257	24.5	921,885	0.687	40.5	1640
01/02/24	528,974	33.2	921,885	0.574	31.8	1011
01/03/24	599,388	26.7	921,885	0.650	38.3	1467
01/04/24	615,967	26.8	921,885	0.668	38.2	1459
01/05/24	523,163	31.4	921,885	0.567	33.6	1129
01/06/24	544,542	29.2	921,885	0.591	35.8	1282
01/07/24	619,163	24.4	921,885	0.672	40.6	1648
01/08/24	585,126	29.7	921,885	0.635	35.3	1246
01/09/24	600,491	27.3	921,885	0.651	37.7	1421
01/10/24	621,551	24.8	921,885	0.674	40.2	1616
01/11/24	821,499	10.2	921,885	0.891	54.8	3003
01/12/24	888,508	11.2	921,885	0.964	53.8	2894
01/13/24	1,052,278	(2.0)	921,885	1.141	67.0	4489
01/14/24	1,082,785	(3.9)	921,885	1.175	68.9	4747
01/15/24	1,087,403	(1.3)	921,885	1.180	66.3	4396
01/16/24	981,208	4.5	921,885	1.064	60.5	3660
01/17/24	911,898	7.5	921,885	0.989	57.5	3306
01/18/24	981,617	4.2	921,885	1.065	60.8	3697
01/19/24	1,015,728	1.5	921,885	1.102	63.5	4032
01/20/24	936,684	5.8	921,885	1.016	59.2	3505
01/21/24	781,239	19.6	921,885	0.847	45.4	2061
01/22/24	583,549	29.9	921,885	0.633	35.1	1232
01/23/24	548,243	31.5	921,885	0.595	33.5	1122
01/24/24	498,558	34.1	921,885	0.541	30.9	955
01/25/24	473,868	35.1	921,885	0.514	29.9	894
01/26/24	454,869	36.2	921,885	0.493	28.8	829
01/27/24	499,283	32.8	921,885	0.542	32.2	1037
01/28/24	522,969	31.0	921,885	0.567	34.0	1156

<u>Date</u>	<u>Firm Throughput</u>	<u>Temperature</u>	<u>Firm Customer</u>	<u>UPC</u>	<u>HDD</u>	<u>HDDs^2</u>
01/29/24	413,350	38.9	921,885	0.448	26.1	681
01/30/24	469,836	35.5	921,885	0.510	29.5	870
01/31/24	381,365	34.9	921,885	0.414	30.1	906
02/01/24	426,747	37.6	923,149	0.462	27.4	751
02/02/24	469,513	32.7	923,149	0.509	32.3	1043
02/03/24	518,723	30.8	923,149	0.562	34.2	1170
02/04/24	463,518	36.0	923,149	0.502	29.0	841
02/05/24	451,547	37.3	923,149	0.489	27.7	767
02/06/24	361,228	45.3	923,149	0.391	19.7	388
02/07/24	355,558	46.5	923,149	0.385	18.5	342
02/08/24	424,103	40.5	923,149	0.459	24.5	600
02/09/24	580,146	28.7	923,149	0.628	36.3	1318
02/10/24	553,156	30.6	923,149	0.599	34.4	1183
02/11/24	481,493	34.0	923,149	0.522	31.0	961
02/12/24	456,007	35.3	923,149	0.494	29.7	882
02/13/24	505,408	32.4	923,149	0.547	32.6	1063
02/14/24	522,887	30.5	923,149	0.566	34.5	1190
02/15/24	628,165	20.6	923,149	0.680	44.4	1971
02/16/24	775,415	10.9	923,149	0.840	54.1	2927
02/17/24	631,878	22.4	923,149	0.684	42.6	1815
02/18/24	542,458	27.3	923,149	0.588	37.7	1421
02/19/24	486,244	33.5	923,149	0.527	31.5	992
02/20/24	432,211	32.4	923,149	0.468	32.6	1063
02/21/24	408,150	34.7	923,149	0.442	30.3	918
02/22/24	393,789	34.3	923,149	0.427	30.7	942
02/23/24	579,454	26.5	923,149	0.628	38.5	1482
02/24/24	433,042	38.4	923,149	0.469	26.6	708
02/25/24	411,178	39.3	923,149	0.445	25.7	660
02/26/24	304,024	48.3	923,149	0.329	16.7	279
02/27/24	660,023	22.3	923,149	0.715	42.7	1823
02/28/24	752,372	15.6	923,149	0.815	49.4	2440
02/29/24	438,434	41.5	923,149	0.475	23.5	552
03/01/24	302,854	45.2	923,432	0.328	19.8	392
03/02/24	243,376	52.0	923,432	0.264	13.0	169
03/03/24	292,348	47.8	923,432	0.317	17.2	296
03/04/24	491,748	32.6	923,432	0.533	32.4	1050
03/05/24	420,935	39.1	923,432	0.456	25.9	671
03/06/24	332,282	46.9	923,432	0.360	18.1	328
03/07/24	428,594	36.0	923,432	0.464	29.0	841
03/08/24	496,727	29.7	923,432	0.538	35.3	1246
03/09/24	464,856	31.7	923,432	0.503	33.3	1109
03/10/24	369,384	40.8	923,432	0.400	24.2	586
03/11/24	217,140	55.9	923,432	0.235	9.1	83
03/12/24	204,946	53.3	923,432	0.222	11.7	137
03/13/24	222,112	54.5	923,432	0.241	10.5	110
03/14/24	293,898	46.7	923,432	0.318	18.3	335
03/15/24	277,174	47.6	923,432	0.300	17.4	303
03/16/24	424,026	37.6	923,432	0.459	27.4	751
03/17/24	590,975	25.2	923,432	0.640	39.8	1584
03/18/24	485,468	33.0	923,432	0.526	32.0	1024
03/19/24	443,424	37.5	923,432	0.480	27.5	756
03/20/24	547,344	28.0	923,432	0.593	37.0	1369
03/21/24	542,932	27.1	923,432	0.588	37.9	1436
03/22/24	556,933	26.7	923,432	0.603	38.3	1467
03/23/24	494,779	28.7	923,432	0.536	36.3	1318
03/24/24	528,855	31.2	923,432	0.573	33.8	1142
03/25/24	499,836	34.9	923,432	0.541	30.1	906
03/26/24	640,548	24.1	923,432	0.694	40.9	1673
03/27/24	597,642	24.0	923,432	0.647	41.0	1681
03/28/24	496,485	29.2	923,432	0.538	35.8	1282
03/29/24	382,172	39.1	923,432	0.414	25.9	671
03/30/24	354,870	36.5	923,432	0.384	28.5	812
03/31/24	371,652	37.8	923,432	0.402	27.2	740

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.946353351
R Square	0.895584666
Adjusted R Square	0.895469417
Standard Error	1291.282137
Observations	908

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	12957250357	12957250357	7770.886461	0
Residual	906	1510673059	1667409.558		
Total	907	14467923416			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	4742.907679	129.8808885	36.51736396	3.1231E-180	4488.005287	4997.81007	4488.005287	4997.81007
HDDs	281.1419977	3.189263809	88.15263162	0	274.8827937	287.4012017	274.8827937	287.4012017

<u>Year</u>	<u>HDDs</u>	<u>Usage @ DD</u>	<u>Usage @ 95% CI UL</u>
2025	90	30,046	32,600
2026	90	30,046	32,600
2027	90	30,046	32,600
2028	90	30,046	32,600
2029	90	30,046	32,600

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs ^{a2}
11/01/18	10,919	5,460	42.5	22.5	506
11/02/18	10,386	5,193	40.6	24.4	595
11/03/18	9,447	4,724	41.2	23.8	566
11/04/18	10,941	5,471	37.2	27.8	773
11/05/18	11,846	5,923	42.7	22.3	497
11/06/18	14,506	7,253	33.4	31.6	999
11/07/18	16,323	8,162	27.8	37.2	1384
11/08/18	17,123	8,562	24.0	41.0	1681
11/09/18	18,120	9,060	17.3	47.7	2275
11/10/18	15,558	7,779	21.2	43.8	1918
11/11/18	16,179	8,090	24.3	40.7	1656
11/12/18	20,135	10,068	15.7	49.3	2430
11/13/18	19,227	9,614	17.9	47.1	2218
11/14/18	15,249	7,625	34.0	31.0	961
11/15/18	13,995	6,998	35.8	29.2	853
11/16/18	15,215	7,608	28.0	37.0	1369
11/17/18	16,227	8,114	18.7	46.3	2144
11/18/18	15,733	7,867	23.2	41.8	1747
11/19/18	18,594	9,297	22.3	42.7	1823
11/20/18	17,110	8,555	26.5	38.5	1482
11/21/18	15,573	7,787	26.5	38.5	1482
11/22/18	11,911	5,956	35.9	29.1	847
11/23/18	10,608	5,304	41.4	23.6	557
11/24/18	12,494	6,247	29.4	35.6	1267
11/25/18	16,280	8,140	21.6	43.4	1884
11/26/18	19,470	9,735	17.4	47.6	2266
11/27/18	18,957	9,479	20.5	44.5	1980
11/28/18	17,392	8,696	25.3	39.7	1576
11/29/18	15,831	7,916	30.8	34.2	1170
11/30/18	14,315	7,158	29.4	35.6	1267
12/01/18	12,797	6,399	32.6	32.4	1050
12/02/18	14,352	7,176	29.6	35.4	1253
12/03/18	17,097	8,549	24.9	40.1	1608
12/04/18	17,565	8,783	23.3	41.7	1739
12/05/18	17,452	8,726	24.0	41.0	1681
12/06/18	20,271	10,136	13.6	51.4	2642
12/07/18	17,956	8,978	16.9	48.1	2314
12/08/18	15,558	7,779	21.9	43.1	1858
12/09/18	16,593	8,297	20.8	44.2	1954
12/10/18	19,195	9,598	18.3	46.7	2181
12/11/18	17,746	8,873	23.5	41.5	1722
12/12/18	17,086	8,543	26.0	39.0	1521
12/13/18	16,164	8,082	27.5	37.5	1406
12/14/18	14,256	7,128	29.3	35.7	1274
12/15/18	11,623	5,812	35.4	29.6	876
12/16/18	13,158	6,579	34.7	30.3	918
12/17/18	15,426	7,713	30.1	34.9	1218
12/18/18	14,002	7,001	38.1	26.9	724
12/19/18	13,917	6,959	36.8	28.2	795
12/20/18	15,881	7,941	30.3	34.7	1204
12/21/18	15,464	7,732	24.4	40.6	1648
12/22/18	13,166	6,583	28.8	36.2	1310
12/23/18	15,238	7,619	22.1	42.9	1840
12/24/18	13,944	6,972	22.0	43.0	1849
12/25/18	13,958	6,979	25.8	39.2	1537

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs^2
12/26/18	15,783	7,892	33.4	31.6	999
12/27/18	15,226	7,613	33.4	31.6	999
12/28/18	18,795	9,398	16.1	48.9	2391
12/29/18	17,355	8,678	14.1	50.9	2591
12/30/18	13,879	6,940	29.3	35.7	1274
12/31/18	17,805	8,903	18.3	46.7	2181
01/01/19	21,082	10,541	4.9	60.1	3612
01/02/19	19,267	9,634	21.2	43.8	1918
01/03/19	15,395	7,698	33.9	31.1	967
01/04/19	12,921	6,461	36.0	29.0	841
01/05/19	11,856	5,928	35.0	30.0	900
01/06/19	13,195	6,598	35.0	30.0	900
01/07/19	14,868	7,434	36.3	28.7	824
01/08/19	20,665	10,333	15.7	49.3	2430
01/09/19	21,749	10,875	12.2	52.8	2788
01/10/19	19,127	9,564	20.0	45.0	2025
01/11/19	16,103	8,052	25.8	39.2	1537
01/12/19	13,823	6,912	28.8	36.2	1310
01/13/19	13,942	6,971	33.2	31.8	1011
01/14/19	16,494	8,247	29.5	35.5	1260
01/15/19	18,633	9,317	23.2	41.8	1747
01/16/19	19,945	9,973	16.9	48.1	2314
01/17/19	20,209	10,105	15.9	49.1	2411
01/18/19	21,891	10,946	7.1	57.9	3352
01/19/19	20,973	10,487	(0.8)	65.8	4330
01/20/19	21,967	10,984	2.6	62.4	3894
01/21/19	22,681	11,341	13.0	52.0	2704
01/22/19	21,399	10,700	16.7	48.3	2333
01/23/19	20,360	10,180	19.5	45.5	2070
01/24/19	25,811	12,906	(3.6)	68.6	4706
01/25/19	24,465	12,233	(1.5)	66.5	4422
01/26/19	22,345	11,173	1.1	63.9	4083
01/27/19	23,044	11,522	2.0	63.0	3969
01/28/19	24,696	12,348	2.8	62.2	3869
01/29/19	29,505	14,753	(18.5)	83.5	6972
01/30/19	29,223	14,612	(19.9)	84.9	7208
01/31/19	26,173	13,087	(7.0)	72.0	5184
02/01/19	20,545	10,273	12.5	52.5	2756
02/02/19	13,265	6,633	34.4	30.6	936
02/03/19	14,338	7,169	33.0	32.0	1024
02/04/19	22,695	11,348	8.0	57.0	3249
02/05/19	22,574	11,287	9.6	55.4	3069
02/06/19	20,085	10,043	18.9	46.1	2125
02/07/19	23,254	11,627	4.8	60.2	3624
02/08/19	24,714	12,357	(7.5)	72.5	5256
02/09/19	20,751	10,376	3.3	61.7	3807
02/10/19	19,399	9,700	15.4	49.6	2460
02/11/19	19,435	9,718	22.7	42.3	1789
02/12/19	20,784	10,392	16.0	49.0	2401
02/13/19	19,640	9,820	15.2	49.8	2480
02/14/19	22,409	11,205	8.6	56.4	3181
02/15/19	21,532	10,766	4.6	60.4	3648
02/16/19	17,575	8,788	16.5	48.5	2352
02/17/19	18,580	9,290	17.6	47.4	2247
02/18/19	21,563	10,782	11.0	54.0	2916

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs ^{a2}
02/19/19	20,447	10,224	15.6	49.4	2440
02/20/19	19,452	9,726	19.5	45.5	2070
02/21/19	20,138	10,069	14.0	51.0	2601
02/22/19	16,483	8,242	24.4	40.6	1648
02/23/19	14,646	7,323	28.1	36.9	1362
02/24/19	21,054	10,527	5.6	59.4	3528
02/25/19	24,288	12,144	(0.5)	65.5	4290
02/26/19	23,275	11,638	6.1	58.9	3469
02/27/19	23,464	11,732	4.9	60.1	3612
02/28/19	21,072	10,536	12.7	52.3	2735
03/01/19	19,680	9,840	12.7	52.3	2735
03/02/19	19,882	9,941	5.5	59.5	3540
03/03/19	23,646	11,823	(6.4)	71.4	5098
03/04/19	24,114	12,057	3.8	61.2	3745
03/05/19	22,380	11,190	9.9	55.1	3036
03/06/19	21,248	10,624	13.2	51.8	2683
03/07/19	19,414	9,707	16.0	49.0	2401
03/08/19	15,029	7,515	28.8	36.2	1310
03/09/19	12,926	6,463	32.4	32.6	1063
03/10/19	16,447	8,224	22.1	42.9	1840
03/11/19	17,559	8,780	22.4	42.6	1815
03/12/19	15,098	7,549	35.2	29.8	888
03/13/19	13,636	6,818	39.0	26.0	676
03/14/19	14,667	7,334	36.0	29.0	841
03/15/19	14,905	7,453	30.5	34.5	1190
03/16/19	13,399	6,700	27.9	37.1	1376
03/17/19	13,450	6,725	31.3	33.7	1136
03/18/19	14,626	7,313	33.4	31.6	999
03/19/19	13,193	6,597	38.5	26.5	702
03/20/19	13,181	6,591	38.5	26.5	702
03/21/19	12,390	6,195	40.7	24.3	590
03/22/19	11,473	5,737	38.6	26.4	697
03/23/19	8,749	4,375	44.7	20.3	412
03/24/19	10,992	5,496	39.1	25.9	671
03/25/19	13,695	6,848	36.7	28.3	801
03/26/19	11,557	5,779	46.6	18.4	339
03/27/19	10,280	5,140	50.6	14.4	207
03/28/19	12,097	6,049	42.1	22.9	524
03/29/19	11,548	5,774	38.9	26.1	681
03/30/19	11,762	5,881	29.6	35.4	1253
03/31/19	12,057	6,029	32.5	32.5	1056
11/01/19	11,960	5,980	36.8	28.2	795
11/02/19	12,082	6,041	32.9	32.1	1030
11/03/19	10,937	5,469	39.0	26.0	676
11/04/19	14,610	7,305	31.2	33.8	1142
11/05/19	15,438	7,719	28.8	36.2	1310
11/06/19	17,039	8,520	23.5	41.5	1722
11/07/19	17,722	8,861	20.7	44.3	1962
11/08/19	13,908	6,954	30.8	34.2	1170
11/09/19	11,488	5,744	35.4	29.6	876
11/10/19	15,938	7,969	21.9	43.1	1858
11/11/19	21,034	10,517	11.2	53.8	2894
11/12/19	19,780	9,890	21.0	44.0	1936
11/13/19	17,375	8,688	25.5	39.5	1560
11/14/19	15,700	7,850	28.7	36.3	1318

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs ^{a2}
11/15/19	12,999	6,500	34.9	30.1	906
11/16/19	10,632	5,316	39.5	25.5	650
11/17/19	12,570	6,285	34.2	30.8	949
11/18/19	13,797	6,899	34.8	30.2	912
11/19/19	12,715	6,358	40.0	25.0	625
11/20/19	12,263	6,132	42.0	23.0	529
11/21/19	15,767	7,884	27.3	37.7	1421
11/22/19	14,651	7,326	26.7	38.3	1467
11/23/19	10,933	5,467	36.9	28.1	790
11/24/19	10,907	5,454	40.5	24.5	600
11/25/19	13,006	6,503	39.7	25.3	640
11/26/19	14,808	7,404	33.4	31.6	999
11/27/19	14,729	7,365	28.2	36.8	1354
11/28/19	12,877	6,439	27.3	37.7	1421
11/29/19	12,700	6,350	31.9	33.1	1096
11/30/19	12,696	6,348	32.5	32.5	1056
12/01/19	15,794	7,897	23.7	41.3	1706
12/02/19	17,554	8,777	23.2	41.8	1747
12/03/19	15,465	7,733	31.6	33.4	1116
12/04/19	15,591	7,796	30.0	35.0	1225
12/05/19	15,887	7,944	29.5	35.5	1260
12/06/19	15,896	7,948	23.5	41.5	1722
12/07/19	12,419	6,210	34.9	30.1	906
12/08/19	14,075	7,038	33.2	31.8	1011
12/09/19	22,369	11,185	7.1	57.9	3352
12/10/19	24,260	12,130	0.4	64.6	4173
12/11/19	22,868	11,434	6.7	58.3	3399
12/12/19	20,554	10,277	16.0	49.0	2401
12/13/19	18,427	9,214	16.8	48.2	2323
12/14/19	19,433	9,717	7.0	58.0	3364
12/15/19	19,095	9,548	12.5	52.5	2756
12/16/19	18,878	9,439	22.2	42.8	1832
12/17/19	21,403	10,702	12.1	52.9	2798
12/18/19	21,761	10,881	9.6	55.4	3069
12/19/19	17,738	8,869	24.1	40.9	1673
12/20/19	15,625	7,813	23.9	41.1	1689
12/21/19	12,310	6,155	35.4	29.6	876
12/22/19	12,936	6,468	32.1	32.9	1082
12/23/19	13,398	6,699	34.3	30.7	942
12/24/19	11,003	5,502	33.7	31.3	980
12/25/19	11,856	5,928	30.9	34.1	1163
12/26/19	15,463	7,732	29.0	36.0	1296
12/27/19	14,976	7,488	26.4	38.6	1490
12/28/19	12,580	6,290	34.4	30.6	936
12/29/19	12,794	6,397	35.7	29.3	858
12/30/19	16,395	8,198	25.3	39.7	1576
12/31/19	16,385	8,193	18.0	47.0	2209
01/01/20	13,681	6,841	31.0	34.0	1156
01/02/20	14,734	7,367	33.1	31.9	1018
01/03/20	14,666	7,333	28.7	36.3	1318
01/04/20	13,268	6,634	27.9	37.1	1376
01/05/20	14,596	7,298	29.4	35.6	1267
01/06/20	15,973	7,987	30.5	34.5	1190
01/07/20	20,506	10,253	14.0	51.0	2601
01/08/20	21,362	10,681	12.2	52.8	2788

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs ^{a2}
01/09/20	17,197	8,599	26.8	38.2	1459
01/10/20	19,931	9,966	12.0	53.0	2809
01/11/20	18,384	9,192	11.1	53.9	2905
01/12/20	17,845	8,923	16.6	48.4	2343
01/13/20	17,070	8,535	26.7	38.3	1467
01/14/20	18,355	9,178	21.4	43.6	1901
01/15/20	22,515	11,258	7.2	57.8	3341
01/16/20	23,830	11,915	0.8	64.2	4122
01/17/20	18,435	9,218	21.8	43.2	1866
01/18/20	19,957	9,979	6.3	58.7	3446
01/19/20	20,126	10,063	7.3	57.7	3329
01/20/20	21,925	10,963	7.5	57.5	3306
01/21/20	19,530	9,765	22.4	42.6	1815
01/22/20	15,649	7,825	33.5	31.5	992
01/23/20	15,857	7,929	31.5	33.5	1122
01/24/20	14,794	7,397	33.6	31.4	986
01/25/20	13,721	6,861	30.4	34.6	1197
01/26/20	14,879	7,440	26.2	38.8	1505
01/27/20	17,660	8,830	23.1	41.9	1756
01/28/20	18,769	9,385	18.5	46.5	2162
01/29/20	18,492	9,246	20.5	44.5	1980
01/30/20	17,187	8,594	25.0	40.0	1600
01/31/20	14,430	7,215	31.2	33.8	1142
02/01/20	11,956	5,978	35.7	29.3	858
02/02/20	12,366	6,183	36.5	28.5	812
02/03/20	17,593	8,797	24.0	41.0	1681
02/04/20	19,250	9,625	15.8	49.2	2421
02/05/20	18,136	9,068	20.9	44.1	1945
02/06/20	16,927	8,464	24.7	40.3	1624
02/07/20	17,950	8,975	18.0	47.0	2209
02/08/20	17,174	8,587	12.8	52.2	2725
02/09/20	17,221	8,611	16.3	48.7	2372
02/10/20	17,673	8,837	22.0	43.0	1849
02/11/20	16,859	8,430	27.6	37.4	1399
02/12/20	21,531	10,766	12.5	52.5	2756
02/13/20	24,854	12,427	(6.3)	71.3	5084
02/14/20	19,983	9,992	12.0	53.0	2809
02/15/20	14,645	7,323	24.6	40.4	1632
02/16/20	16,242	8,121	21.4	43.6	1901
02/17/20	17,201	8,601	27.6	37.4	1399
02/18/20	21,169	10,585	12.2	52.8	2788
02/19/20	23,318	11,659	4.4	60.6	3672
02/20/20	21,001	10,501	10.8	54.2	2938
02/21/20	15,310	7,655	28.7	36.3	1318
02/22/20	12,134	6,067	33.2	31.8	1011
02/23/20	13,046	6,523	34.5	30.5	930
02/24/20	14,844	7,422	34.2	30.8	949
02/25/20	15,797	7,899	30.9	34.1	1163
02/26/20	17,569	8,785	23.2	41.8	1747
02/27/20	17,918	8,959	21.0	44.0	1936
02/28/20	16,350	8,175	22.3	42.7	1823
02/29/20	11,995	5,998	33.1	31.9	1018
03/01/20	12,112	6,056	38.8	26.2	686
03/02/20	15,116	7,558	33.0	32.0	1024
03/03/20	14,870	7,435	34.5	30.5	930

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs ^{a2}
03/04/20	13,737	6,869	38.1	26.9	724
03/05/20	15,748	7,874	33.6	31.4	986
03/06/20	13,211	6,606	33.3	31.7	1005
03/07/20	8,573	4,287	48.8	16.2	262
03/08/20	9,248	4,624	49.3	15.7	246
03/09/20	14,832	7,416	33.7	31.3	980
03/10/20	14,104	7,052	35.3	29.7	882
03/11/20	13,030	6,515	39.5	25.5	650
03/12/20	14,154	7,077	36.5	28.5	812
03/13/20	14,015	7,008	30.1	34.9	1218
03/14/20	13,258	6,629	27.3	37.7	1421
03/15/20	12,079	6,040	34.5	30.5	930
03/16/20	14,864	7,432	33.2	31.8	1011
03/17/20	12,617	6,309	38.2	26.8	718
03/18/20	11,816	5,908	40.5	24.5	600
03/19/20	13,610	6,805	34.7	30.3	918
03/20/20	13,967	6,984	25.9	39.1	1529
03/21/20	11,283	5,642	30.7	34.3	1176
03/22/20	10,893	5,447	36.5	28.5	812
03/23/20	11,746	5,873	38.2	26.8	718
03/24/20	10,967	5,484	43.8	21.2	449
03/25/20	11,653	5,827	39.5	25.5	650
03/26/20	10,049	5,025	43.1	21.9	480
03/27/20	7,344	3,672	50.1	14.9	222
03/28/20	8,540	4,270	37.2	27.8	773
03/29/20	9,447	4,724	40.2	24.8	615
03/30/20	9,407	4,704	46.8	18.2	331
03/31/20	9,535	4,768	44.5	20.5	420
11/01/20	12,686	6,343	31.8	33.2	1102
11/02/20	11,121	5,561	44.0	21.0	441
11/03/20	8,601	4,301	58.1	6.9	48
11/04/20	8,325	4,163	58.3	6.7	45
11/05/20	8,037	4,019	59.2	5.8	34
11/06/20	6,326	3,163	65.0	0.0	0
11/07/20	5,424	2,712	63.5	1.5	2
11/08/20	5,597	2,799	66.0	0.0	0
11/09/20	11,492	5,746	42.3	22.7	515
11/10/20	15,650	7,825	27.2	37.8	1429
11/11/20	15,014	7,507	30.9	34.1	1163
11/12/20	17,000	8,500	23.2	41.8	1747
11/13/20	13,976	6,988	29.4	35.6	1267
11/14/20	11,836	5,918	35.0	30.0	900
11/15/20	14,381	7,191	28.0	37.0	1369
11/16/20	15,399	7,700	29.3	35.7	1274
11/17/20	14,863	7,432	31.2	33.8	1142
11/18/20	11,627	5,814	45.8	19.2	369
11/19/20	11,541	5,771	44.4	20.6	424
11/20/20	13,390	6,695	31.6	33.4	1116
11/21/20	11,375	5,688	32.3	32.7	1069
11/22/20	12,596	6,298	32.7	32.3	1043
11/23/20	13,852	6,926	31.9	33.1	1096
11/24/20	13,229	6,615	35.5	29.5	870
11/25/20	12,211	6,106	34.4	30.6	936
11/26/20	11,815	5,908	32.2	32.8	1076
11/27/20	11,508	5,754	32.8	32.2	1037

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs ^{a2}
11/28/20	9,295	4,648	41.4	23.6	557
11/29/20	13,692	6,846	27.7	37.3	1391
11/30/20	16,539	8,270	21.8	43.2	1866
12/01/20	15,559	7,780	25.8	39.2	1537
12/02/20	14,371	7,186	32.3	32.7	1069
12/03/20	13,944	6,972	32.7	32.3	1043
12/04/20	12,894	6,447	31.1	33.9	1149
12/05/20	11,022	5,511	32.8	32.2	1037
12/06/20	12,135	6,068	33.2	31.8	1011
12/07/20	14,293	7,147	31.0	34.0	1156
12/08/20	13,550	6,775	33.4	31.6	999
12/09/20	12,068	6,034	39.0	26.0	676
12/10/20	12,414	6,207	38.8	26.2	686
12/11/20	13,379	6,690	31.2	33.8	1142
12/12/20	12,982	6,491	27.7	37.3	1391
12/13/20	16,038	8,019	21.7	43.3	1875
12/14/20	19,669	9,835	13.6	51.4	2642
12/15/20	18,116	9,058	20.5	44.5	1980
12/16/20	16,539	8,270	23.9	41.1	1689
12/17/20	16,213	8,107	25.8	39.2	1537
12/18/20	13,267	6,634	34.3	30.7	942
12/19/20	14,486	7,243	23.2	41.8	1747
12/20/20	12,447	6,224	33.9	31.1	967
12/21/20	15,801	7,901	28.1	36.9	1362
12/22/20	13,075	6,538	38.5	26.5	702
12/23/20	17,512	8,756	17.5	47.5	2256
12/24/20	19,325	9,663	0.4	64.6	4173
12/25/20	15,803	7,902	11.8	53.2	2830
12/26/20	14,742	7,371	20.2	44.8	2007
12/27/20	16,536	8,268	18.9	46.1	2125
12/28/20	19,208	9,604	13.4	51.6	2663
12/29/20	17,773	8,887	20.1	44.9	2016
12/30/20	17,519	8,760	18.5	46.5	2162
12/31/20	16,508	8,254	18.2	46.8	2190
01/01/21	15,726	7,863	17.1	47.9	2294
01/02/21	14,907	7,454	17.5	47.5	2256
01/03/21	14,683	7,342	24.7	40.3	1624
01/04/21	15,924	7,962	27.8	37.2	1384
01/05/21	15,679	7,840	27.3	37.7	1421
01/06/21	16,191	8,096	26.3	38.7	1498
01/07/21	17,405	8,703	21.2	43.8	1918
01/08/21	17,026	8,513	17.5	47.5	2256
01/09/21	15,375	7,688	18.5	46.5	2162
01/10/21	14,906	7,453	26.6	38.4	1475
01/11/21	16,399	8,200	26.9	38.1	1452
01/12/21	15,424	7,712	31.5	33.5	1122
01/13/21	14,505	7,253	34.2	30.8	949
01/14/21	15,098	7,549	33.0	32.0	1024
01/15/21	14,157	7,079	32.7	32.3	1043
01/16/21	14,864	7,432	24.1	40.9	1673
01/17/21	16,311	8,156	21.1	43.9	1927
01/18/21	18,611	9,306	20.1	44.9	2016
01/19/21	21,706	10,853	9.5	55.5	3080
01/20/21	16,851	8,426	32.8	32.2	1037
01/21/21	19,768	9,884	14.9	50.1	2510

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs^2
01/22/21	19,774	9,887	12.1	52.9	2798
01/23/21	17,169	8,585	17.8	47.2	2228
01/24/21	17,410	8,705	18.0	47.0	2209
01/25/21	19,886	9,943	16.2	48.8	2381
01/26/21	20,545	10,273	14.2	50.8	2581
01/27/21	21,274	10,637	11.3	53.7	2884
01/28/21	19,484	9,742	18.0	47.0	2209
01/29/21	17,222	8,611	23.7	41.3	1706
01/30/21	13,969	6,985	30.2	34.8	1211
01/31/21	14,853	7,427	29.4	35.6	1267
02/01/21	17,824	8,912	23.2	41.8	1747
02/02/21	18,605	9,303	19.9	45.1	2034
02/03/21	16,291	8,146	30.1	34.9	1218
02/04/21	20,950	10,475	12.1	52.9	2798
02/05/21	22,091	11,046	3.9	61.1	3733
02/06/21	23,116	11,558	(8.4)	73.4	5388
02/07/21	24,012	12,006	(5.4)	70.4	4956
02/08/21	25,914	12,957	(3.4)	68.4	4679
02/09/21	24,672	12,336	2.1	62.9	3956
02/10/21	25,516	12,758	(1.7)	66.7	4449
02/11/21	26,184	13,092	(5.3)	70.3	4942
02/12/21	25,113	12,557	(6.9)	71.9	5170
02/13/21	23,920	11,960	(10.0)	75.0	5625
02/14/21	25,107	12,554	(11.1)	76.1	5791
02/15/21	25,841	12,921	(7.0)	72.0	5184
02/16/21	24,108	12,054	2.8	62.2	3869
02/17/21	22,557	11,279	7.9	57.1	3260
02/18/21	21,422	10,711	10.2	54.8	3003
02/19/21	19,705	9,853	9.2	55.8	3114
02/20/21	16,097	8,049	19.3	45.7	2088
02/21/21	15,265	7,633	26.1	38.9	1513
02/22/21	14,487	7,244	36.8	28.2	795
02/23/21	14,324	7,162	35.3	29.7	882
02/24/21	15,169	7,585	31.3	33.7	1136
02/25/21	14,897	7,449	31.3	33.7	1136
02/26/21	13,304	6,652	34.9	30.1	906
02/27/21	10,857	5,429	39.1	25.9	671
02/28/21	15,464	7,732	22.9	42.1	1772
03/01/21	18,104	9,052	21.5	43.5	1892
03/02/21	13,879	6,940	37.3	27.7	767
03/03/21	12,952	6,476	38.8	26.2	686
03/04/21	12,542	6,271	38.7	26.3	692
03/05/21	12,029	6,015	35.1	29.9	894
03/06/21	9,983	4,992	38.9	26.1	681
03/07/21	8,927	4,464	47.1	17.9	320
03/08/21	10,174	5,087	48.3	16.7	279
03/09/21	9,712	4,856	52.4	12.6	159
03/10/21	13,300	6,650	38.6	26.4	697
03/11/21	13,600	6,800	36.3	28.7	824
03/12/21	12,179	6,090	36.8	28.2	795
03/13/21	8,478	4,239	46.1	18.9	357
03/14/21	11,478	5,739	39.2	25.8	666
03/15/21	15,541	7,771	29.5	35.5	1260
03/16/21	14,501	7,251	32.9	32.1	1030
03/17/21	13,965	6,983	36.3	28.7	824

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs ^{a2}
03/18/21	12,702	6,351	41.1	23.9	571
03/19/21	11,023	5,512	40.6	24.4	595
03/20/21	8,348	4,174	48.5	16.5	272
03/21/21	8,497	4,249	51.5	13.5	182
03/22/21	10,045	5,023	51.0	14.0	196
03/23/21	10,943	5,472	47.0	18.0	324
03/24/21	12,771	6,386	38.4	26.6	708
03/25/21	12,417	6,209	39.2	25.8	666
03/26/21	10,612	5,306	40.8	24.2	586
03/27/21	10,346	5,173	38.1	26.9	724
03/28/21	10,576	5,288	40.3	24.7	610
03/29/21	9,434	4,717	58.7	6.3	40
03/30/21	14,321	7,161	32.2	32.8	1076
03/31/21	15,796	7,898	28.0	37.0	1369
11/01/21	12,380	6,190	37.9	27.1	734
11/02/21	12,532	6,266	37.2	27.8	773
11/03/21	12,151	6,076	36.7	28.3	801
11/04/21	10,696	5,348	43.7	21.3	454
11/05/21	8,400	4,200	52.3	12.7	161
11/06/21	6,793	3,397	53.5	11.5	132
11/07/21	7,287	3,644	51.9	13.1	172
11/08/21	10,080	5,040	45.6	19.4	376
11/09/21	10,498	5,249	44.2	20.8	433
11/10/21	10,539	5,270	45.5	19.5	380
11/11/21	12,409	6,205	36.4	28.6	818
11/12/21	12,075	6,038	34.7	30.3	918
11/13/21	11,479	5,740	31.6	33.4	1116
11/14/21	12,316	6,158	30.5	34.5	1190
11/15/21	13,710	6,855	31.9	33.1	1096
11/16/21	12,240	6,120	40.4	24.6	605
11/17/21	13,953	6,977	33.1	31.9	1018
11/18/21	15,596	7,798	26.3	38.7	1498
11/19/21	13,063	6,532	34.7	30.3	918
11/20/21	10,810	5,405	36.8	28.2	795
11/21/21	14,278	7,139	25.7	39.3	1544
11/22/21	15,490	7,745	27.9	37.1	1376
11/23/21	11,101	5,551	45.9	19.1	365
11/24/21	12,921	6,461	28.7	36.3	1318
11/25/21	13,967	6,984	18.3	46.7	2181
11/26/21	12,356	6,178	30.7	34.3	1176
11/27/21	11,484	5,742	32.4	32.6	1063
11/28/21	11,821	5,911	34.3	30.7	942
11/29/21	12,443	6,222	38.9	26.1	681
11/30/21	12,420	6,210	39.4	25.6	655
12/01/21	11,356	5,678	45.3	19.7	388
12/02/21	11,851	5,926	39.7	25.3	640
12/03/21	12,350	6,175	34.7	30.3	918
12/04/21	12,340	6,170	30.5	34.5	1190
12/05/21	14,141	7,071	27.8	37.2	1384
12/06/21	21,203	10,602	6.8	58.2	3387
12/07/21	19,754	9,877	10.8	54.2	2938
12/08/21	18,025	9,013	21.1	43.9	1927
12/09/21	14,889	7,445	31.4	33.6	1129
12/10/21	14,656	7,328	28.0	37.0	1369
12/11/21	13,676	6,838	26.0	39.0	1521

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs^2
12/12/21	13,276	6,638	31.1	33.9	1149
12/13/21	13,987	6,994	33.8	31.2	973
12/14/21	12,747	6,374	39.3	25.7	660
12/15/21	11,778	5,889	42.2	22.8	520
12/16/21	18,606	9,303	16.5	48.5	2352
12/17/21	17,472	8,736	17.7	47.3	2237
12/18/21	16,846	8,423	14.1	50.9	2591
12/19/21	15,392	7,696	25.7	39.3	1544
12/20/21	18,851	9,426	15.2	49.8	2480
12/21/21	19,796	9,898	12.8	52.2	2725
12/22/21	16,950	8,475	22.3	42.7	1823
12/23/21	12,439	6,220	33.8	31.2	973
12/24/21	11,087	5,544	31.8	33.2	1102
12/25/21	14,109	7,055	18.3	46.7	2181
12/26/21	14,107	7,054	28.0	37.0	1369
12/27/21	18,972	9,486	12.3	52.7	2777
12/28/21	20,182	10,091	8.8	56.2	3158
12/29/21	21,046	10,523	7.0	58.0	3364
12/30/21	16,762	8,381	21.3	43.7	1910
12/31/21	18,346	9,173	4.3	60.7	3684
01/01/22	22,036	11,018	(9.5)	74.5	5550
01/02/22	20,747	10,374	2.0	63.0	3969
01/03/22	18,458	9,229	19.1	45.9	2107
01/04/22	18,188	9,094	23.6	41.4	1714
01/05/22	23,070	11,535	3.7	61.3	3758
01/06/22	25,659	12,830	(9.9)	74.9	5610
01/07/22	22,281	11,141	6.3	58.7	3446
01/08/22	18,898	9,449	13.0	52.0	2704
01/09/22	22,319	11,160	(0.6)	65.6	4303
01/10/22	23,311	11,656	4.1	60.9	3709
01/11/22	16,783	8,392	31.2	33.8	1142
01/12/22	15,376	7,688	32.4	32.6	1063
01/13/22	16,428	8,214	27.4	37.6	1414
01/14/22	19,830	9,915	11.1	53.9	2905
01/15/22	18,495	9,248	11.3	53.7	2884
01/16/22	16,745	8,373	21.7	43.3	1875
01/17/22	16,806	8,403	25.7	39.3	1544
01/18/22	18,614	9,307	18.8	46.2	2134
01/19/22	24,338	12,169	(1.8)	66.8	4462
01/20/22	24,875	12,438	(3.2)	68.2	4651
01/21/22	20,339	10,170	15.2	49.8	2480
01/22/22	19,980	9,990	5.6	59.4	3528
01/23/22	20,589	10,295	4.5	60.5	3660
01/24/22	23,580	11,790	0.4	64.6	4173
01/25/22	25,337	12,669	(6.7)	71.7	5141
01/26/22	20,096	10,048	21.1	43.9	1927
01/27/22	21,300	10,650	11.3	53.7	2884
01/28/22	21,008	10,504	8.2	56.8	3226
01/29/22	17,080	8,540	19.7	45.3	2052
01/30/22	17,850	8,925	19.4	45.6	2079
01/31/22	17,587	8,794	26.2	38.8	1505
02/01/22	21,898	10,949	7.2	57.8	3341
02/02/22	24,254	12,127	(1.5)	66.5	4422
02/03/22	23,486	11,743	0.8	64.2	4122
02/04/22	21,877	10,939	2.4	62.6	3919

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs^2
02/05/22	17,059	8,530	18.4	46.6	2172
02/06/22	19,633	9,817	9.1	55.9	3125
02/07/22	20,037	10,019	14.8	50.2	2520
02/08/22	15,028	7,514	34.8	30.2	912
02/09/22	17,473	8,737	24.4	40.6	1648
02/10/22	15,941	7,971	30.5	34.5	1190
02/11/22	20,576	10,288	7.4	57.6	3318
02/12/22	20,822	10,411	1.1	63.9	4083
02/13/22	20,211	10,106	5.9	59.1	3493
02/14/22	20,104	10,052	13.1	51.9	2694
02/15/22	17,177	8,589	25.7	39.3	1544
02/16/22	19,568	9,784	15.7	49.3	2430
02/17/22	22,035	11,018	4.7	60.3	3636
02/18/22	20,147	10,074	11.8	53.2	2830
02/19/22	16,367	8,184	21.5	43.5	1892
02/20/22	14,224	7,112	31.5	33.5	1122
02/21/22	19,807	9,904	17.0	48.0	2304
02/22/22	22,625	11,313	3.5	61.5	3782
02/23/22	22,393	11,197	4.1	60.9	3709
02/24/22	21,701	10,851	8.1	56.9	3238
02/25/22	19,560	9,780	10.2	54.8	3003
02/26/22	14,901	7,451	25.1	39.9	1592
02/27/22	14,116	7,058	25.5	39.5	1560
02/28/22	13,434	6,717	33.0	32.0	1024
03/01/22	14,448	7,224	33.4	31.6	999
03/02/22	16,989	8,495	24.7	40.3	1624
03/03/22	17,453	8,727	23.3	41.7	1739
03/04/22	14,267	7,134	33.5	31.5	992
03/05/22	13,471	6,736	30.7	34.3	1176
03/06/22	15,484	7,742	23.8	41.2	1697
03/07/22	16,959	8,480	25.1	39.9	1592
03/08/22	16,587	8,294	26.5	38.5	1482
03/09/22	19,841	9,921	13.2	51.8	2683
03/10/22	18,785	9,393	19.1	45.9	2107
03/11/22	21,202	10,601	5.4	59.6	3552
03/12/22	15,161	7,581	23.4	41.6	1731
03/13/22	12,518	6,259	37.3	27.7	767
03/14/22	15,052	7,526	32.0	33.0	1089
03/15/22	12,033	6,017	43.0	22.0	484
03/16/22	11,271	5,636	46.0	19.0	361
03/17/22	12,167	6,084	39.3	25.7	660
03/18/22	11,850	5,925	36.1	28.9	835
03/19/22	9,809	4,905	38.8	26.2	686
03/20/22	8,198	4,099	47.9	17.1	292
03/21/22	9,511	4,756	52.1	12.9	166
03/22/22	12,952	6,476	37.4	27.6	762
03/23/22	14,155	7,078	34.3	30.7	942
03/24/22	12,334	6,167	40.2	24.8	615
03/25/22	14,397	7,199	31.8	33.2	1102
03/26/22	14,424	7,212	26.3	38.7	1498
03/27/22	14,929	7,465	23.6	41.4	1714
03/28/22	14,313	7,157	33.6	31.4	986
03/29/22	13,792	6,896	36.4	28.6	818
03/30/22	14,708	7,354	33.0	32.0	1024
03/31/22	15,173	7,587	29.6	35.4	1253

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs ^{a2}
11/01/22	7,274	3,637	60.0	5.0	25
11/02/22	6,689	3,345	66.5	0.0	0
11/03/22	8,128	4,064	54.0	11.0	121
11/04/22	10,299	5,150	37.6	27.4	751
11/05/22	9,234	4,617	39.6	25.4	645
11/06/22	10,117	5,059	39.3	25.7	660
11/07/22	12,723	6,362	35.8	29.2	853
11/08/22	10,433	5,217	47.6	17.4	303
11/09/22	7,886	3,943	63.3	1.7	3
11/10/22	12,190	6,095	37.0	28.0	784
11/11/22	13,809	6,905	29.0	36.0	1296
11/12/22	13,269	6,635	27.1	37.9	1436
11/13/22	13,835	6,918	26.5	38.5	1482
11/14/22	14,921	7,461	29.5	35.5	1260
11/15/22	14,681	7,341	31.0	34.0	1156
11/16/22	15,807	7,904	26.2	38.8	1505
11/17/22	16,956	8,478	24.2	40.8	1665
11/18/22	17,101	8,551	19.5	45.5	2070
11/19/22	16,626	8,313	13.7	51.3	2632
11/20/22	14,538	7,269	25.4	39.6	1568
11/21/22	16,052	8,026	27.4	37.6	1414
11/22/22	14,884	7,442	32.0	33.0	1089
11/23/22	11,218	5,609	36.4	28.6	818
11/24/22	10,781	5,391	36.5	28.5	812
11/25/22	9,588	4,794	41.2	23.8	566
11/26/22	9,559	4,780	43.4	21.6	467
11/27/22	12,314	6,157	31.9	33.1	1096
11/28/22	13,850	6,925	35.1	29.9	894
11/29/22	17,114	8,557	23.5	41.5	1722
11/30/22	19,305	9,653	14.0	51.0	2601
12/01/22	15,527	7,764	29.8	35.2	1239
12/02/22	16,276	8,138	21.3	43.7	1910
12/03/22	17,449	8,725	11.3	53.7	2884
12/04/22	14,407	7,204	28.6	36.4	1325
12/05/22	17,759	8,880	20.6	44.4	1971
12/06/22	17,619	8,810	22.6	42.4	1798
12/07/22	19,885	9,943	12.8	52.2	2725
12/08/22	16,635	8,318	26.0	39.0	1521
12/09/22	14,179	7,090	30.9	34.1	1163
12/10/22	12,380	6,190	33.1	31.9	1018
12/11/22	13,115	6,558	32.1	32.9	1082
12/12/22	14,466	7,233	34.4	30.6	936
12/13/22	14,673	7,337	34.3	30.7	942
12/14/22	14,136	7,068	34.7	30.3	918
12/15/22	14,418	7,209	31.0	34.0	1156
12/16/22	15,020	7,510	25.7	39.3	1544
12/17/22	16,971	8,486	13.0	52.0	2704
12/18/22	19,678	9,839	3.6	61.4	3770
12/19/22	21,192	10,596	4.0	61.0	3721
12/20/22	24,021	12,011	(3.0)	68.0	4624
12/21/22	23,991	11,996	(3.4)	68.4	4679
12/22/22	24,067	12,034	(10.0)	75.0	5625
12/23/22	22,194	11,097	(3.7)	68.7	4720
12/24/22	19,923	9,962	0.5	64.5	4160
12/25/22	19,021	9,511	4.5	60.5	3660

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs ^{a2}
12/26/22	19,760	9,880	7.0	58.0	3364
12/27/22	17,627	8,814	17.8	47.2	2228
12/28/22	14,513	7,257	34.5	30.5	930
12/29/22	15,795	7,898	27.5	37.5	1406
12/30/22	15,511	7,756	18.9	46.1	2125
12/31/22	12,797	6,399	30.8	34.2	1170
01/01/23	13,986	6,993	25.1	39.9	1592
01/02/23	15,584	7,792	24.8	40.2	1616
01/03/23	15,780	7,890	29.3	35.7	1274
01/04/23	15,219	7,610	30.2	34.8	1211
01/05/23	17,485	8,743	19.6	45.4	2061
01/06/23	19,011	9,506	7.9	57.1	3260
01/07/23	17,625	8,813	9.4	55.6	3091
01/08/23	17,096	8,548	15.0	50.0	2500
01/09/23	16,352	8,176	25.0	40.0	1600
01/10/23	16,040	8,020	27.1	37.9	1436
01/11/23	15,495	7,748	29.8	35.2	1239
01/12/23	17,488	8,744	20.8	44.2	1954
01/13/23	17,305	8,653	16.5	48.5	2352
01/14/23	13,784	6,892	29.0	36.0	1296
01/15/23	12,446	6,223	35.0	30.0	900
01/16/23	14,393	7,197	33.2	31.8	1011
01/17/23	14,772	7,386	32.0	33.0	1089
01/18/23	15,016	7,508	30.8	34.2	1170
01/19/23	15,532	7,766	28.5	36.5	1332
01/20/23	15,855	7,928	21.0	44.0	1936
01/21/23	14,733	7,367	21.2	43.8	1918
01/22/23	15,855	7,928	16.0	49.0	2401
01/23/23	16,798	8,399	23.2	41.8	1747
01/24/23	16,422	8,211	24.9	40.1	1608
01/25/23	18,648	9,324	18.3	46.7	2181
01/26/23	18,471	9,236	17.7	47.3	2237
01/27/23	18,501	9,251	12.7	52.3	2735
01/28/23	19,866	9,933	3.0	62.0	3844
01/29/23	21,118	10,559	0.2	64.8	4199
01/30/23	24,233	12,117	(3.6)	68.6	4706
01/31/23	22,565	11,283	5.4	59.6	3552
02/01/23	20,360	10,180	14.0	51.0	2601
02/02/23	23,645	11,823	(2.1)	67.1	4502
02/03/23	22,212	11,106	1.9	63.1	3982
02/04/23	15,665	7,833	22.0	43.0	1849
02/05/23	15,524	7,762	22.3	42.7	1823
02/06/23	15,070	7,535	33.3	31.7	1005
02/07/23	15,539	7,770	29.4	35.6	1267
02/08/23	14,116	7,058	33.8	31.2	973
02/09/23	16,831	8,416	23.6	41.4	1714
02/10/23	15,345	7,673	26.1	38.9	1513
02/11/23	12,671	6,336	30.7	34.3	1176
02/12/23	12,990	6,495	32.1	32.9	1082
02/13/23	12,973	6,487	37.7	27.3	745
02/14/23	13,839	6,920	36.8	28.2	795
02/15/23	18,010	9,005	19.1	45.9	2107
02/16/23	19,688	9,844	12.8	52.2	2725
02/17/23	16,046	8,023	24.0	41.0	1681
02/18/23	12,931	6,466	30.6	34.4	1183

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs ^{a2}
02/19/23	15,087	7,544	24.2	40.8	1665
02/20/23	18,452	9,226	18.3	46.7	2181
02/21/23	19,814	9,907	13.3	51.7	2673
02/22/23	18,306	9,153	18.0	47.0	2209
02/23/23	20,677	10,339	4.7	60.3	3636
02/24/23	19,968	9,984	7.3	57.7	3329
02/25/23	16,335	8,168	17.0	48.0	2304
02/26/23	13,976	6,988	28.6	36.4	1325
02/27/23	15,419	7,710	29.1	35.9	1289
02/28/23	13,988	6,994	33.9	31.1	967
03/01/23	16,124	8,062	26.4	38.6	1490
03/02/23	15,992	7,996	25.1	39.9	1592
03/03/23	13,216	6,608	31.5	33.5	1122
03/04/23	12,838	6,419	28.1	36.9	1362
03/05/23	12,854	6,427	33.7	31.3	980
03/06/23	14,784	7,392	31.8	33.2	1102
03/07/23	13,663	6,832	35.3	29.7	882
03/08/23	14,385	7,193	32.7	32.3	1043
03/09/23	15,041	7,521	30.1	34.9	1218
03/10/23	13,990	6,995	30.2	34.8	1211
03/11/23	12,746	6,373	29.4	35.6	1267
03/12/23	14,713	7,357	25.8	39.2	1537
03/13/23	16,921	8,461	21.8	43.2	1866
03/14/23	15,415	7,708	28.7	36.3	1318
03/15/23	12,596	6,298	41.9	23.1	534
03/16/23	16,851	8,426	24.2	40.8	1665
03/17/23	19,251	9,626	11.1	53.9	2905
03/18/23	16,920	8,460	16.9	48.1	2314
03/19/23	14,037	7,019	31.6	33.4	1116
03/20/23	14,763	7,382	31.2	33.8	1142
03/21/23	13,468	6,734	37.1	27.9	778
03/22/23	15,381	7,691	28.8	36.2	1310
03/23/23	14,844	7,422	29.1	35.9	1289
03/24/23	11,892	5,946	35.7	29.3	858
03/25/23	11,110	5,555	35.3	29.7	882
03/26/23	12,358	6,179	32.9	32.1	1030
03/27/23	15,187	7,594	29.8	35.2	1239
03/28/23	16,857	8,429	22.4	42.6	1815
03/29/23	17,377	8,689	21.8	43.2	1866
03/30/23	14,501	7,251	33.5	31.5	992
03/31/23	13,404	6,702	32.8	32.2	1037
11/01/23	14,382	7,191	31.7	33.3	1109
11/02/23	12,317	6,159	38.9	26.1	681
11/03/23	10,871	5,436	39.4	25.6	655
11/04/23	9,397	4,699	43.4	21.6	467
11/05/23	7,296	3,648	54.2	10.8	117
11/06/23	10,903	5,452	42.7	22.3	497
11/07/23	10,910	5,455	44.5	20.5	420
11/08/23	11,111	5,556	41.9	23.1	534
11/09/23	11,557	5,779	40.8	24.2	586
11/10/23	11,233	5,617	37.5	27.5	756
11/11/23	9,473	4,737	42.6	22.4	502
11/12/23	8,668	4,334	48.3	16.7	279
11/13/23	9,553	4,777	49.8	15.2	231
11/14/23	9,019	4,510	54.7	10.3	106

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs ^{a2}
11/15/23	8,957	4,479	52.3	12.7	161
11/16/23	10,375	5,188	44.7	20.3	412
11/17/23	10,811	5,406	39.0	26.0	676
11/18/23	8,824	4,412	42.7	22.3	497
11/19/23	8,775	4,388	43.3	21.7	471
11/20/23	11,080	5,540	43.3	21.7	471
11/21/23	13,726	6,863	33.5	31.5	992
11/22/23	11,682	5,841	38.1	26.9	724
11/23/23	13,673	6,837	23.4	41.6	1731
11/24/23	13,542	6,771	22.7	42.3	1789
11/25/23	13,012	6,506	25.0	40.0	1600
11/26/23	15,559	7,780	23.5	41.5	1722
11/27/23	20,088	10,044	12.8	52.2	2725
11/28/23	16,655	8,328	23.6	41.4	1714
11/29/23	13,707	6,854	38.4	26.6	708
11/30/23	14,745	7,373	30.4	34.6	1197
12/01/23	14,383	7,192	28.3	36.7	1347
12/02/23	11,888	5,944	34.0	31.0	961
12/03/23	12,764	6,382	32.6	32.4	1050
12/04/23	14,732	7,366	32.4	32.6	1063
12/05/23	15,685	7,843	27.6	37.4	1399
12/06/23	13,055	6,528	39.7	25.3	640
12/07/23	11,470	5,735	43.8	21.2	449
12/08/23	10,686	5,343	41.4	23.6	557
12/09/23	13,088	6,544	28.8	36.2	1310
12/10/23	15,037	7,519	23.4	41.6	1731
12/11/23	16,333	8,167	27.2	37.8	1429
12/12/23	16,844	8,422	26.0	39.0	1521
12/13/23	14,414	7,207	36.1	28.9	835
12/14/23	11,774	5,887	44.3	20.7	428
12/15/23	11,272	5,636	39.9	25.1	630
12/16/23	11,043	5,522	37.5	27.5	756
12/17/23	14,019	7,010	30.2	34.8	1211
12/18/23	17,992	8,996	19.8	45.2	2043
12/19/23	14,789	7,395	32.7	32.3	1043
12/20/23	13,874	6,937	34.5	30.5	930
12/21/23	12,368	6,184	37.2	27.8	773
12/22/23	10,230	5,115	40.8	24.2	586
12/23/23	8,224	4,112	46.0	19.0	361
12/24/23	7,445	3,723	48.4	16.6	276
12/25/23	8,024	4,012	49.3	15.7	246
12/26/23	12,632	6,316	35.1	29.9	894
12/27/23	13,877	6,939	31.3	33.7	1136
12/28/23	14,081	7,041	29.8	35.2	1239
12/29/23	12,494	6,247	31.7	33.3	1109
12/30/23	13,509	6,755	29.1	35.9	1289
12/31/23	14,177	7,089	24.4	40.6	1648
01/01/24	14,985	7,493	24.5	40.5	1640
01/02/24	14,763	7,382	33.2	31.8	1011
01/03/24	16,300	8,150	26.7	38.3	1467
01/04/24	16,343	8,172	26.8	38.2	1459
01/05/24	13,851	6,926	31.4	33.6	1129
01/06/24	13,443	6,722	29.2	35.8	1282
01/07/24	15,438	7,719	24.4	40.6	1648
01/08/24	15,805	7,903	29.7	35.3	1246

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs^2
01/09/24	16,593	8,297	27.3	37.7	1421
01/10/24	17,173	8,587	24.8	40.2	1616
01/11/24	20,734	10,367	10.2	54.8	3003
01/12/24	20,849	10,425	11.2	53.8	2894
01/13/24	22,359	11,180	(2.0)	67.0	4489
01/14/24	23,449	11,725	(3.9)	68.9	4747
01/15/24	24,276	12,138	(1.3)	66.3	4396
01/16/24	22,695	11,348	4.5	60.5	3660
01/17/24	23,000	11,500	7.5	57.5	3306
01/18/24	23,422	11,711	4.2	60.8	3697
01/19/24	23,270	11,635	1.5	63.5	4032
01/20/24	20,283	10,142	5.8	59.2	3505
01/21/24	18,340	9,170	19.6	45.4	2061
01/22/24	16,557	8,279	29.9	35.1	1232
01/23/24	15,656	7,828	31.5	33.5	1122
01/24/24	14,642	7,321	34.1	30.9	955
01/25/24	13,868	6,934	35.1	29.9	894
01/26/24	12,403	6,202	36.2	28.8	829
01/27/24	12,542	6,271	32.8	32.2	1037
01/28/24	13,395	6,698	31.0	34.0	1156
01/29/24	13,030	6,515	38.9	26.1	681
01/30/24	13,862	6,931	35.5	29.5	870
01/31/24	12,250	6,125	34.9	30.1	906
02/01/24	12,991	6,496	37.6	27.4	751
02/02/24	12,822	6,411	32.7	32.3	1043
02/03/24	12,659	6,330	30.8	34.2	1170
02/04/24	12,239	6,120	36.0	29.0	841
02/05/24	13,061	6,531	37.3	27.7	767
02/06/24	11,521	5,761	45.3	19.7	388
02/07/24	11,387	5,694	46.5	18.5	342
02/08/24	12,705	6,353	40.5	24.5	600
02/09/24	14,620	7,310	28.7	36.3	1318
02/10/24	13,106	6,553	30.6	34.4	1183
02/11/24	12,828	6,414	34.0	31.0	961
02/12/24	13,865	6,933	35.3	29.7	882
02/13/24	14,678	7,339	32.4	32.6	1063
02/14/24	15,473	7,737	30.5	34.5	1190
02/15/24	17,567	8,784	20.6	44.4	1971
02/16/24	18,696	9,348	10.9	54.1	2927
02/17/24	15,067	7,534	22.4	42.6	1815
02/18/24	14,316	7,158	27.3	37.7	1421
02/19/24	14,024	7,012	33.5	31.5	992
02/20/24	13,489	6,745	32.4	32.6	1063
02/21/24	12,617	6,309	34.7	30.3	918
02/22/24	12,296	6,148	34.3	30.7	942
02/23/24	14,788	7,394	26.5	38.5	1482
02/24/24	11,158	5,579	38.4	26.6	708
02/25/24	11,216	5,608	39.3	25.7	660
02/26/24	10,661	5,331	48.3	16.7	279
02/27/24	17,332	8,666	22.3	42.7	1823
02/28/24	19,393	9,697	15.6	49.4	2440
02/29/24	12,987	6,494	41.5	23.5	552
03/01/24	9,871	4,936	45.2	19.8	392
03/02/24	7,621	3,811	52.0	13.0	169
03/03/24	8,823	4,412	47.8	17.2	296

Potential FT Volumes					
Date	Final FT	(50% @ WS 24-25)	Temperature	HDD	HDDs^2
03/04/24	13,711	6,856	32.6	32.4	1050
03/05/24	12,609	6,305	39.1	25.9	671
03/06/24	10,880	5,440	46.9	18.1	328
03/07/24	12,762	6,381	36.0	29.0	841
03/08/24	13,162	6,581	29.7	35.3	1246
03/09/24	11,666	5,833	31.7	33.3	1109
03/10/24	10,366	5,183	40.8	24.2	586
03/11/24	8,723	4,362	55.9	9.1	83
03/12/24	9,131	4,566	53.3	11.7	137
03/13/24	9,056	4,528	54.5	10.5	110
03/14/24	10,261	5,131	46.7	18.3	335
03/15/24	9,237	4,619	47.6	17.4	303
03/16/24	10,903	5,452	37.6	27.4	751
03/17/24	14,279	7,140	25.2	39.8	1584
03/18/24	13,927	6,964	33.0	32.0	1024
03/19/24	13,620	6,810	37.5	27.5	756
03/20/24	15,757	7,879	28.0	37.0	1369
03/21/24	15,231	7,616	27.1	37.9	1436
03/22/24	14,987	7,494	26.7	38.3	1467
03/23/24	12,736	6,368	28.7	36.3	1318
03/24/24	13,324	6,662	31.2	33.8	1142
03/25/24	14,320	7,160	34.9	30.1	906
03/26/24	17,491	8,746	24.1	40.9	1673
03/27/24	17,069	8,535	24.0	41.0	1681
03/28/24	14,713	7,357	29.2	35.8	1282
03/29/24	11,507	5,754	39.1	25.9	671
03/30/24	10,252	5,126	36.5	28.5	812
03/31/24	10,788	5,394	37.8	27.2	740

2024 Design Day Model Comparison: CNP vs. DOC vs. Alternative

CNP Model	<u>Firm Customer</u>			
	<u>Base</u>	<u>Jan</u>	<u>Jan & Tue</u>	<u>Jan & Tue & HS 19-20</u>
Model Fit	1,437,000			
Upper 95th Percentile	1,505,000			
DOC Model (Approx.)	<u>Base</u>	<u>Jan</u>	<u>Jan & Tue</u>	<u>Jan & Tue & HS 19-20</u>
Model Fit	1,411,000	1,444,000	1,456,000	1,461,000
Upper 95th Percentile	1,471,000	1,504,000	1,516,000	1,520,000
Alternative Model	<u>Base</u>	<u>Jan</u>	<u>Jan & WeekDay</u>	
Model Fit	1,396,000	1,431,000	1,441,000	
Upper 95th Percentile	1,459,000	1,494,000	1,503,000	

PUBLIC DOCUMENT
Trade Secret Information Excised

Exhibit C1
ANR Contract

CenterPoint Energy has designated selected information in this document trade secret – Specifically Exhibit C1 its entirety. 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 detailed gas supply 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.

In accordance with Minn. Rule 7829.0500, Subp. 3, CenterPoint Energy furnishes the following description of the document:

Nature of the Material: Contract

Author: ANR Pipeline Company

General Import: Entitlement for CenterPoint Energy

Date the Document was Prepared: March 24, 2025

PUBLIC DOCUMENT
Trade Secret Information Excised

Exhibit C2
Northern Natural Gas Contract

CenterPoint Energy has designated selected information in this document trade secret – Specifically Exhibit C1 its entirety. 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 detailed gas supply 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.

In accordance with Minn. Rule 7829.0500, Subp. 3, CenterPoint Energy furnishes the following description of the document:

Nature of the Material: Contract

Author: Northern Natural Gas

General Import: Entitlement for CenterPoint Energy

Date the Document was Prepared: January 1, 2024

PUBLIC DOCUMENT
Trade Secret Information Excised

Exhibit C3
Tenaska Contract

CenterPoint Energy has designated selected information in this document trade secret – Specifically Exhibit C1 its entirety. 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 detailed gas supply 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.

In accordance with Minn. Rule 7829.0500, Subp. 3, CenterPoint Energy furnishes the following description of the document:

Nature of the Material: Contract

Author: Tenaska Gas Storage Company

General Import: Storage for CenterPoint Energy

Date the Document was Prepared: March 27, 2025

PUBLIC DOCUMENT
Trade Secret Information Excised

Exhibit C4
BP Contract

CenterPoint Energy has designated selected information in this document trade secret – Specifically Exhibit C1 its entirety. 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 detailed gas supply 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.

In accordance with Minn. Rule 7829.0500, Subp. 3, CenterPoint Energy furnishes the following description of the document:

Nature of the Material: Contract

Author: BP Energy Company

General Import: Contract between CenterPoint Energy and BP Energy Company

Date the Document was Prepared: August 20, 2024

PUBLIC DOCUMENT
Trade Secret Information Excised

Exhibit C5
Tenaska_Viking Contract

CenterPoint Energy has designated selected information in this document trade secret – Specifically Exhibit C1 its entirety. 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 detailed gas supply 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.

In accordance with Minn. Rule 7829.0500, Subp. 3, CenterPoint Energy furnishes the following description of the document:

Nature of the Material: Contract

Author: Tenaska Marketing Ventures

General Import: Contract between CenterPoint Energy and Tenaska Marketing Ventures

Date the Document was Prepared: March 14, 2025