

June 28th, 2017 Dominion Energy Technical Conference



OCS Questions

1. Regarding the table on page 5 of Kelly Mendenhall's testimony, please more thoroughly demonstrate how the peak day allocations were derived.

Customer Group	Usage	Percentage
Sales (GS, FS)	1,316,588	86.1%
Transportation (TS,FT-1,MT)	213,201	13.9%
Total	1,529,789	100%

Design Peak Day Demand Means:

- ***Total firm gas consumption*** throughout the day when the mean temperature is -5° fahrenheit
- Firm sales is estimated through ***statistical analysis*** of daily sendout variables that affect consumption
- Firm transportation is the ***summary*** of daily firm contract amounts

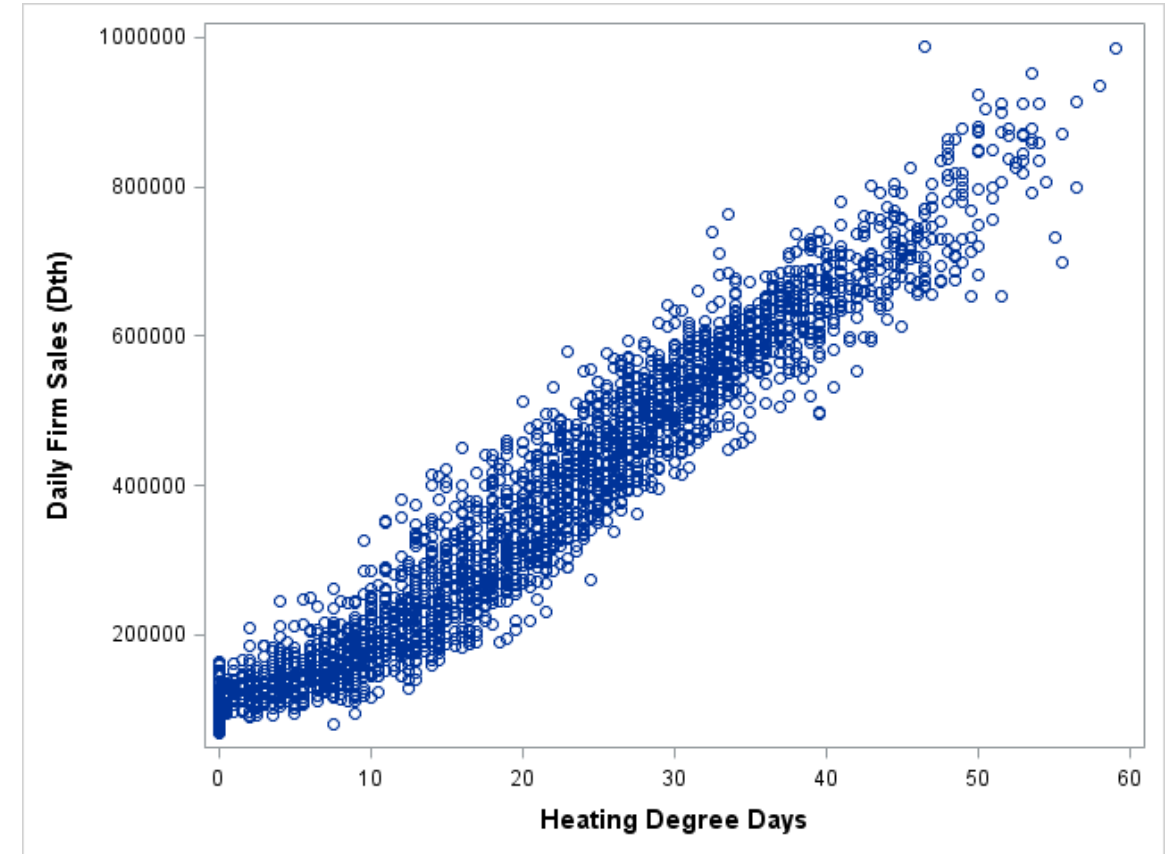


Peak Firm Sales Estimation

Daily Firm Sales Estimation

Variables that affect firm sales are:

- Heating degree days
- Prior day firm sales
- Average wind speed
- Maximum sustained wind speed
- Day of the week (sales lower on Fridays and weekends)
- Holidays (sales lower on winter holidays)

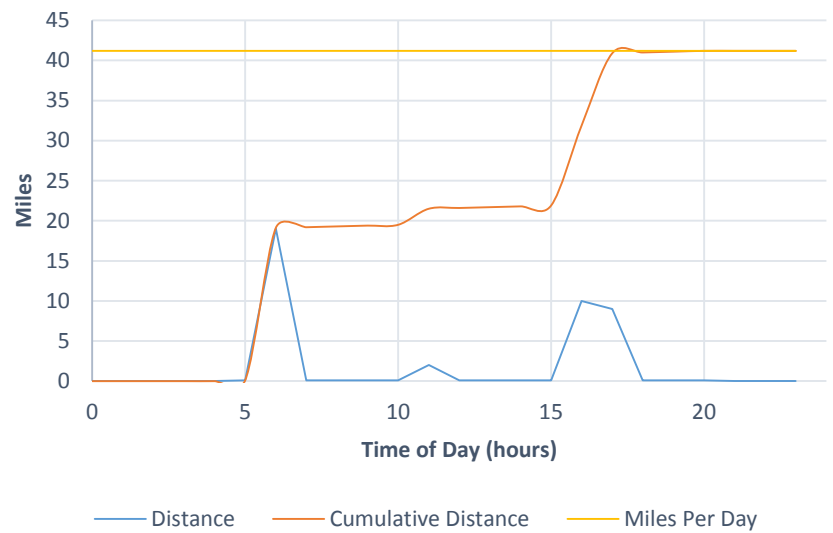


OCS Questions

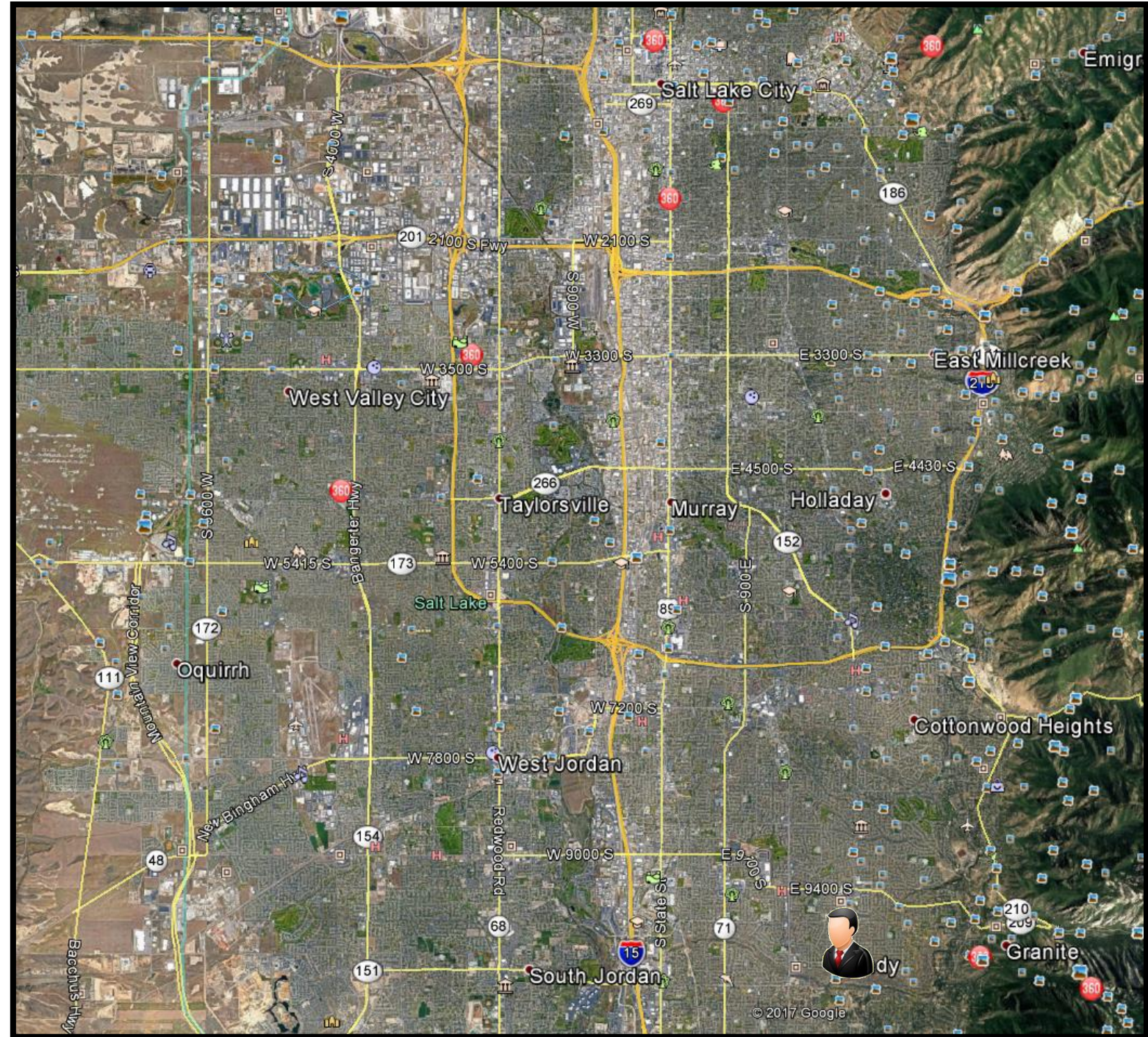
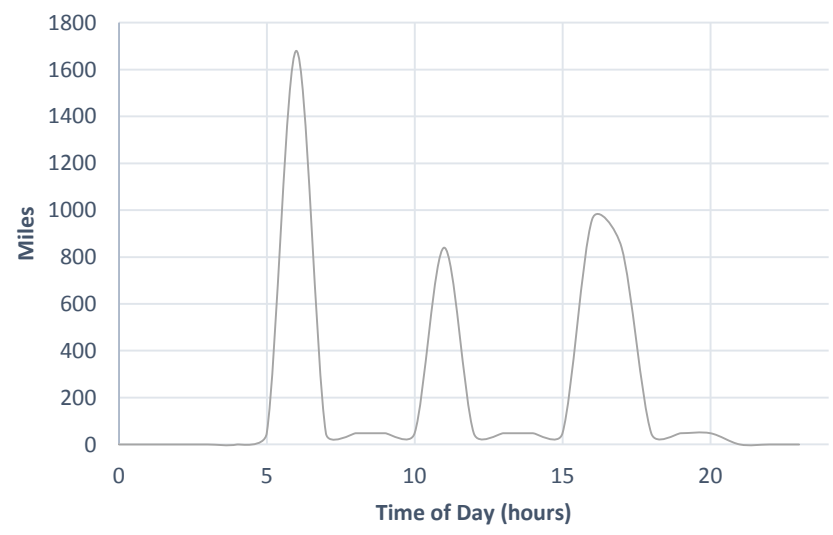
2. Please explain how the total usage from the table on page 5 of Kelly Mendenhall's testimony relates to the estimated peak day hourly volumes demonstrated in Exhibit 1.3

Customer Group	Usage	Percentage
Sales (GS, FS)	1,316,588	86.1%
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Miles

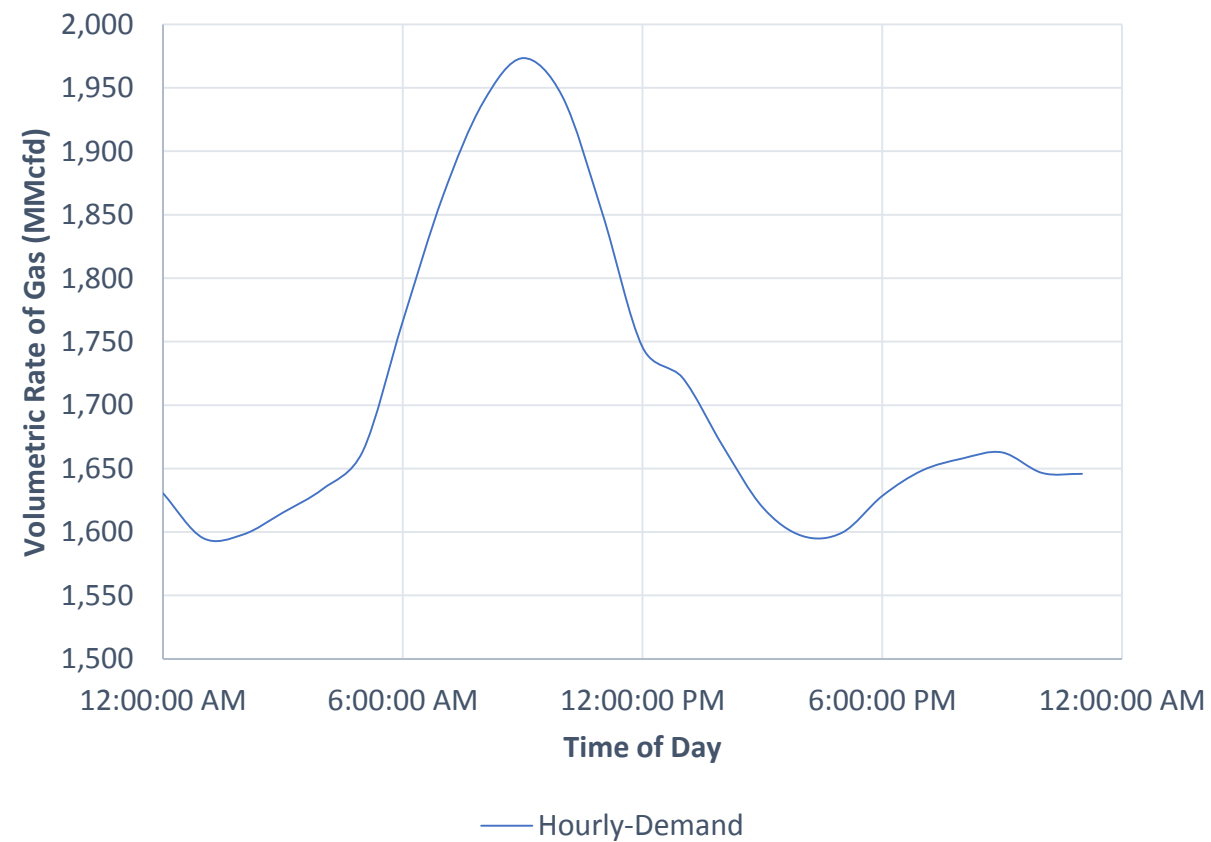
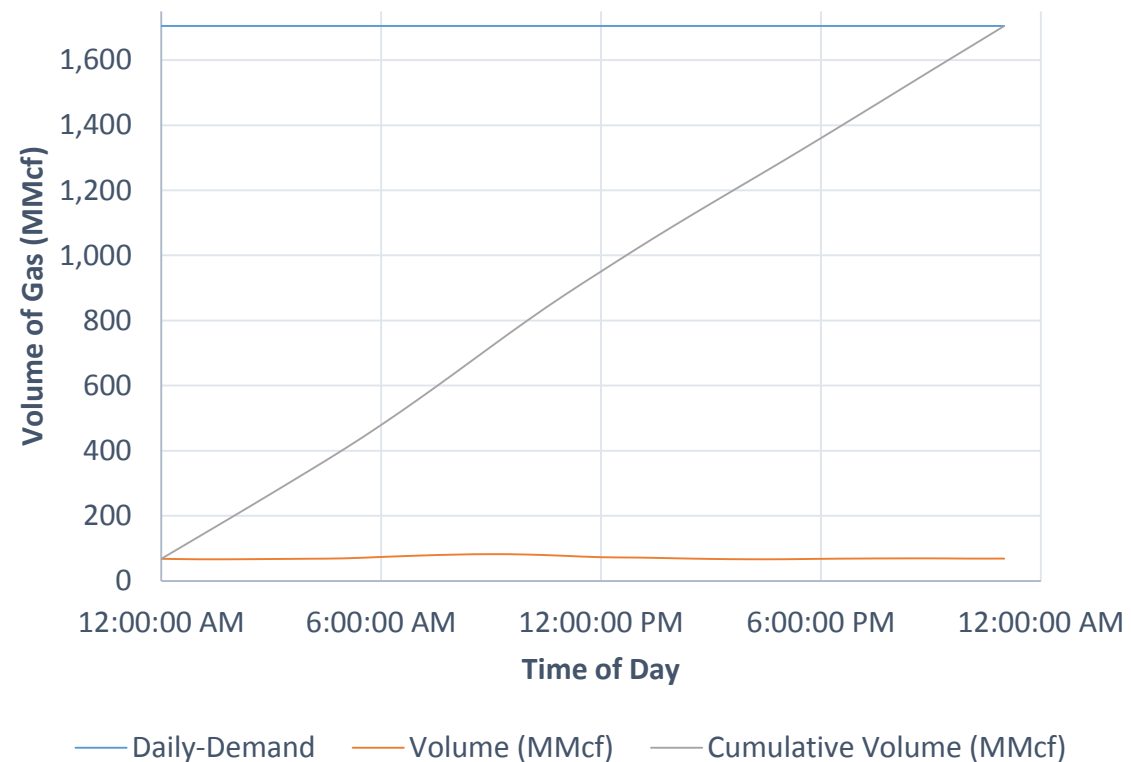


Miles per Day (Rate)



Connecting it Together

- Miles per Day = Daily Volume
 - The colder it gets, the further we go
- Traveling Speed = Hourly Rate
- Speed Limit = System Capacity

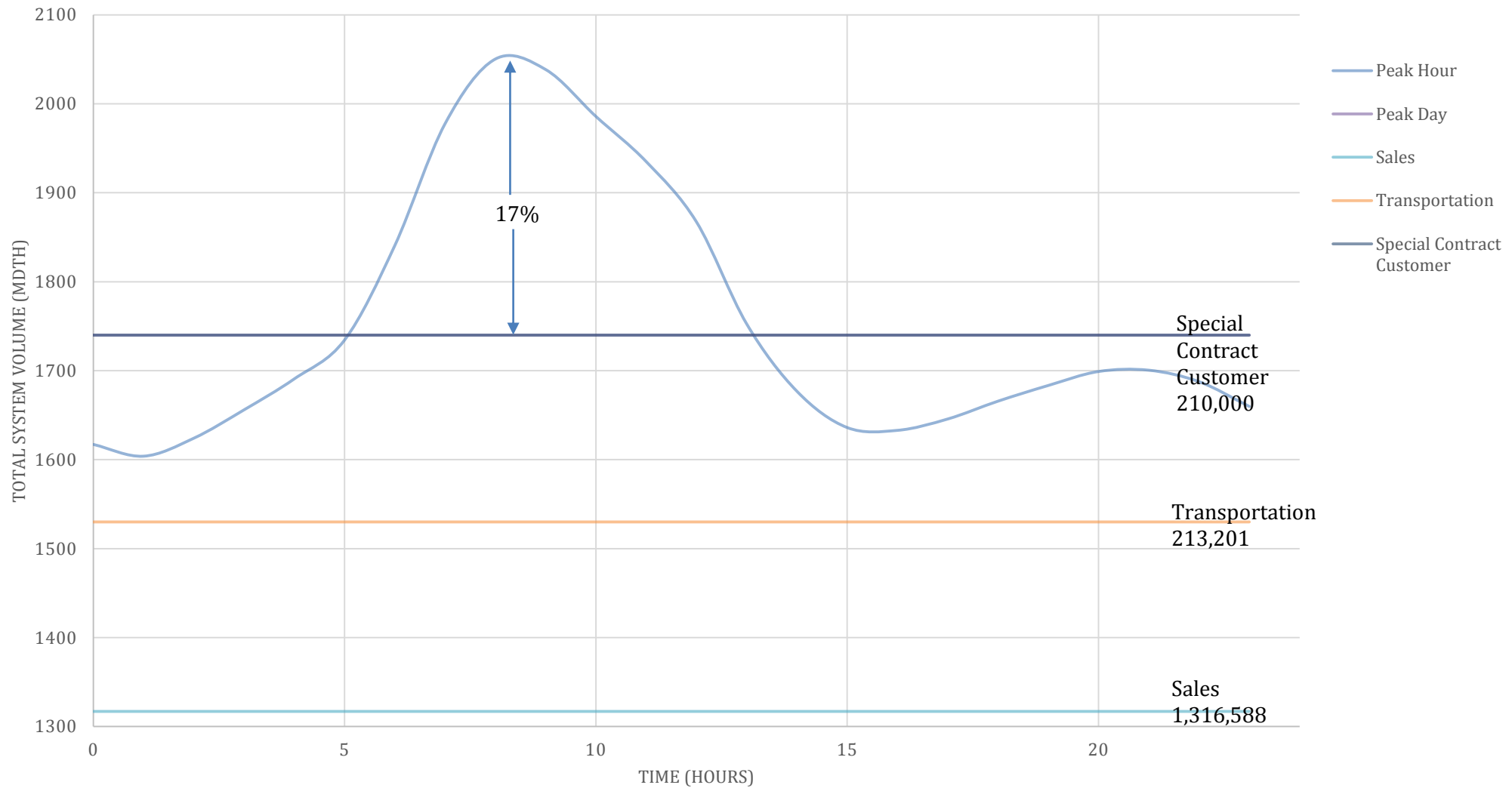


OCS Questions

2. Please explain how the total usage from the table on page 5 of Kelly Mendenhall's testimony relates to the estimated peak day hourly volumes demonstrated in Exhibit 1.3

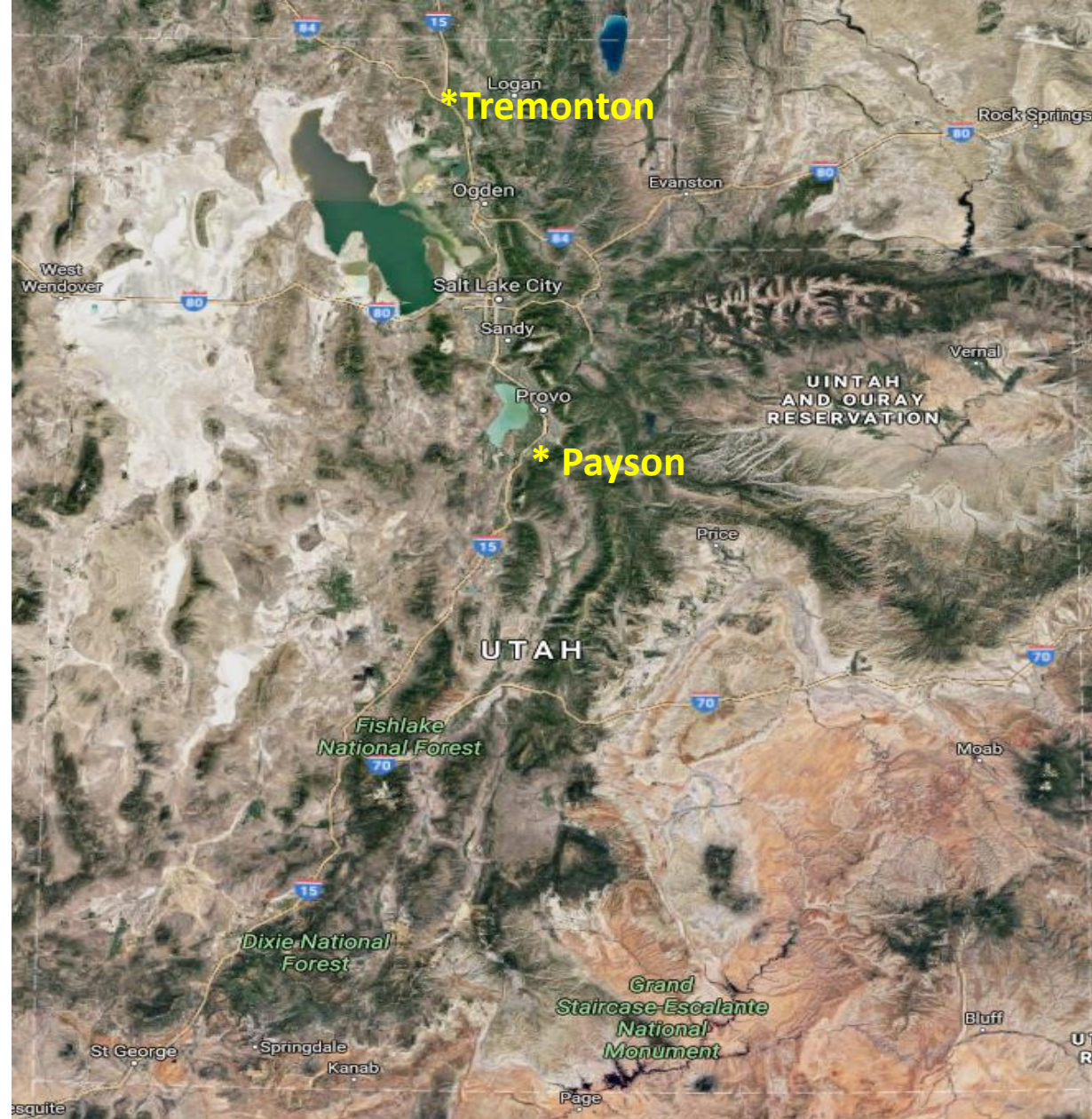
Customer Group	Usage	Percentage
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2016/2017 Estimated Peak Day Hourly Volume



OCS Questions

3. Please explain the significance of Wasatch and Non-Wasatch volumes and how they are applied in the allocations and rate calculation.



1. Beginning on line 105, Dominion Energy Utah (DEU) discusses how peak day usage is calculated. On lines 105 through 107 it reads, “Both the transportation and sales customers’ peak hour demands are added together to calculate the total peak day demand.” If Peak Day is calculated by summing the peak hour demands, please explain the distinction between "peak hour" demand and "peak day" demand.

94 While the transportation customers use almost one quarter of the gas consumed in Utah
95 during the winter heating season, I am proposing to allocate them a smaller portion of the
96 peak hour service costs by allocating these costs based on their peak day usage.

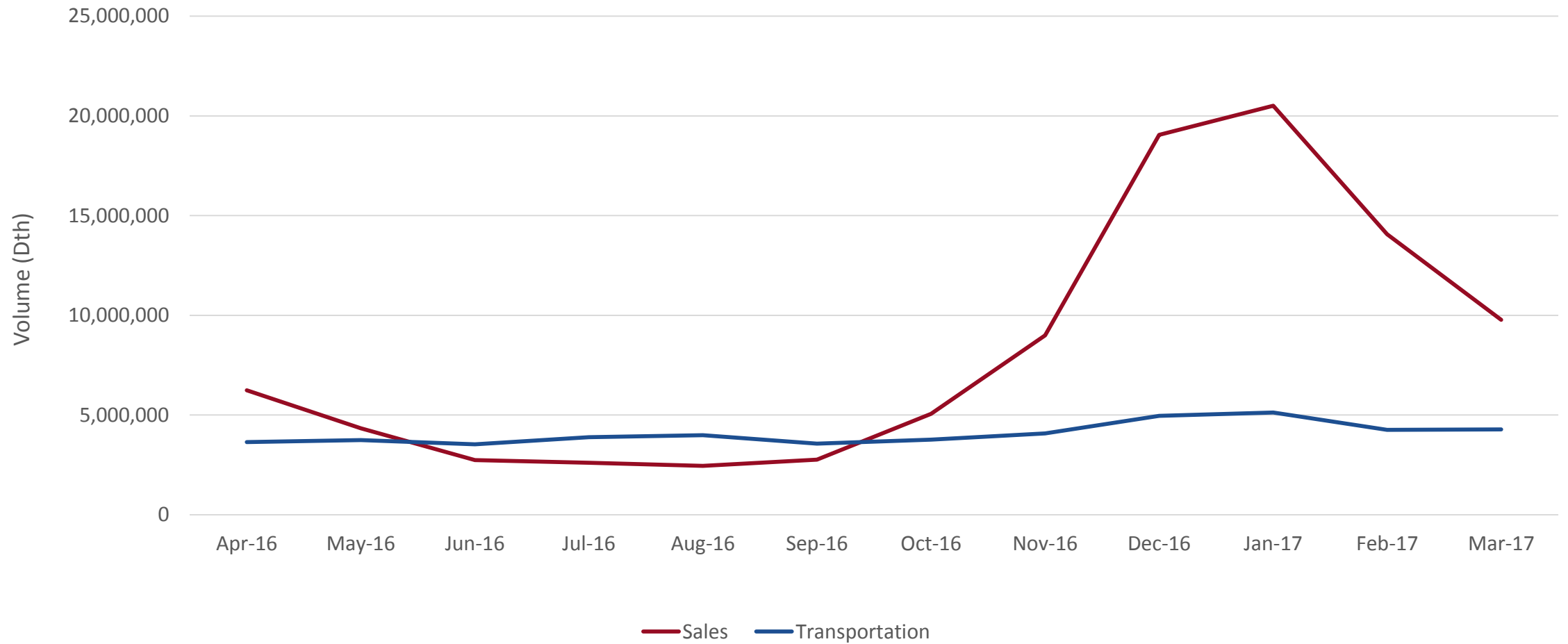
97 **Q. How is the peak day usage calculated?**

98 A. The peak day calculation includes both transportation and sales volumes. Each
99 transportation customer contracts for a certain amount of firm transportation service per day.
100 This contractual amount is aggregated for all transportation customers to determine the total
101 firm demand for the transportation class. For sales customers a statistical algorithm is used
102 to determine their overall usage on a peak day. As explained in the Company's IRP section
103 3, the statistical algorithm includes inputs such as historical usage, temperature and wind
104 speed to determine what the sales customer usage would be during a peak event. Both the
105 transportation and sales customer's peak ~~hour~~ day demands are added together to calculate
106 the total peak day demand.

2. Line 89 refers to non-weather sensitive usage. Please explain how DEU calculates non-weather sensitive usage for transportation customers

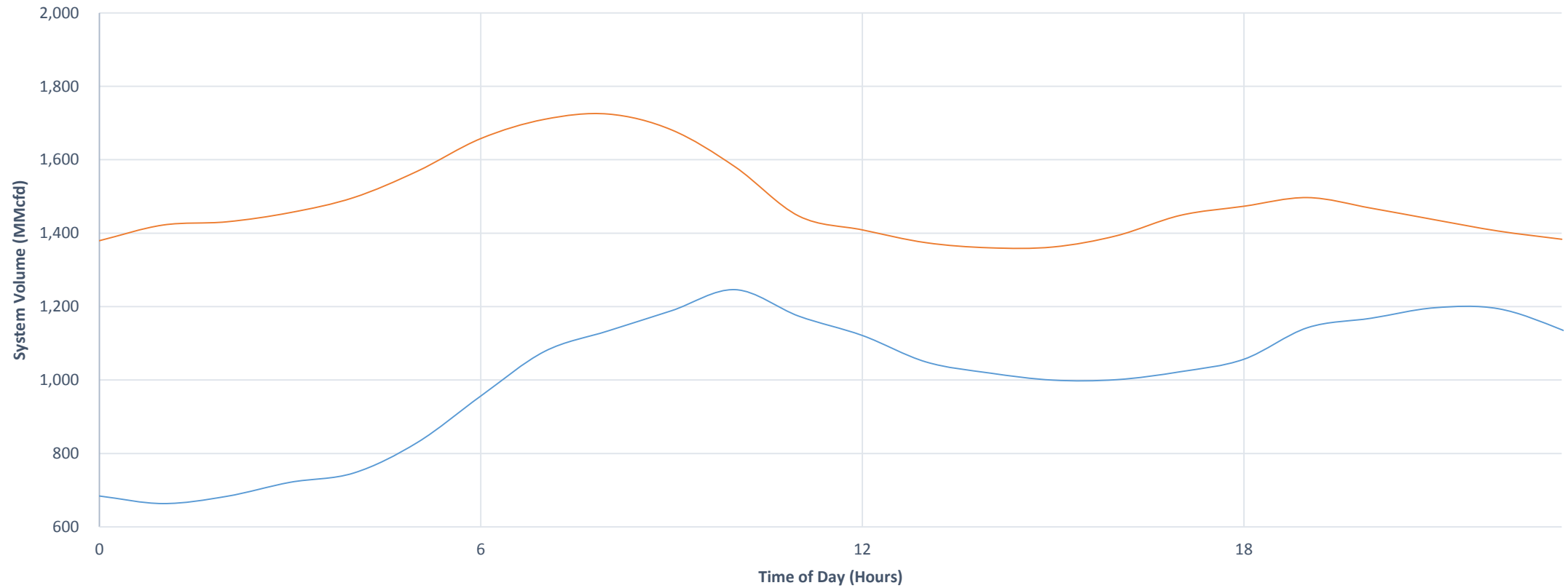
- Lowest daily usage in July or August 2016
 - TS customers (excluding Lakeside) 49,053 DTH
- Average daily usage in July and August
 - TS customers (excluding Lakeside) 182,369 DTH
- Median daily usage in July and August
 - TS customers (excluding Lakeside) 92,329 DTH
- Highest usage from Jan 2016 – Jan 2017
 - TS customers (excluding Lakeside) 441,829 DTH

Total Usage



3. Exhibit 1.2, Projected Peak Day Hourly Volumes, provides historical estimates of projected peak day hourly volumes from the 2010/11 through 2016/17 heating seasons:
- a. Please discuss how forecasts for these years have compared with the actual peak day volumes.
 - b. There appears to be a significant jump in forecast peak day hourly volumes between the first five years of the graph and the last two years. Please explain the reason underlying these increases.

2010-11 Peak Day Vs. High Sendout

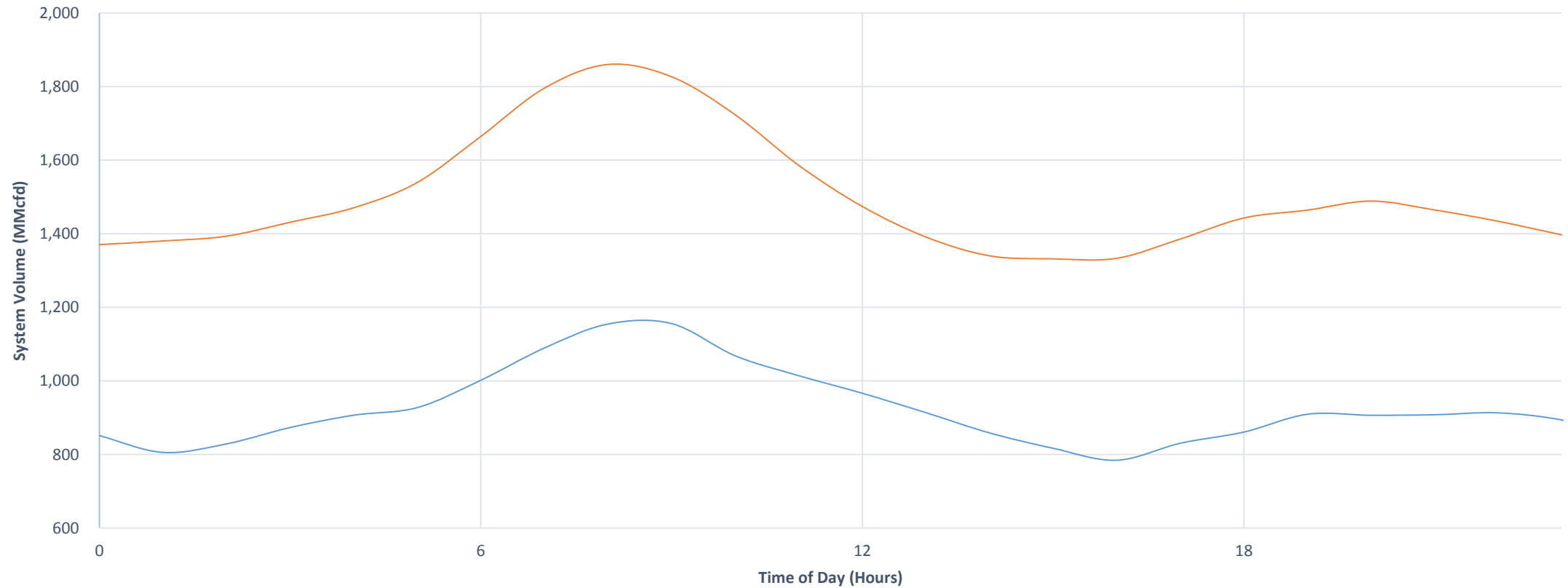


— High Sendout — Peak Day

2/1/2011

19°F Mean

2011-12 Peak Day Vs. High Sendout

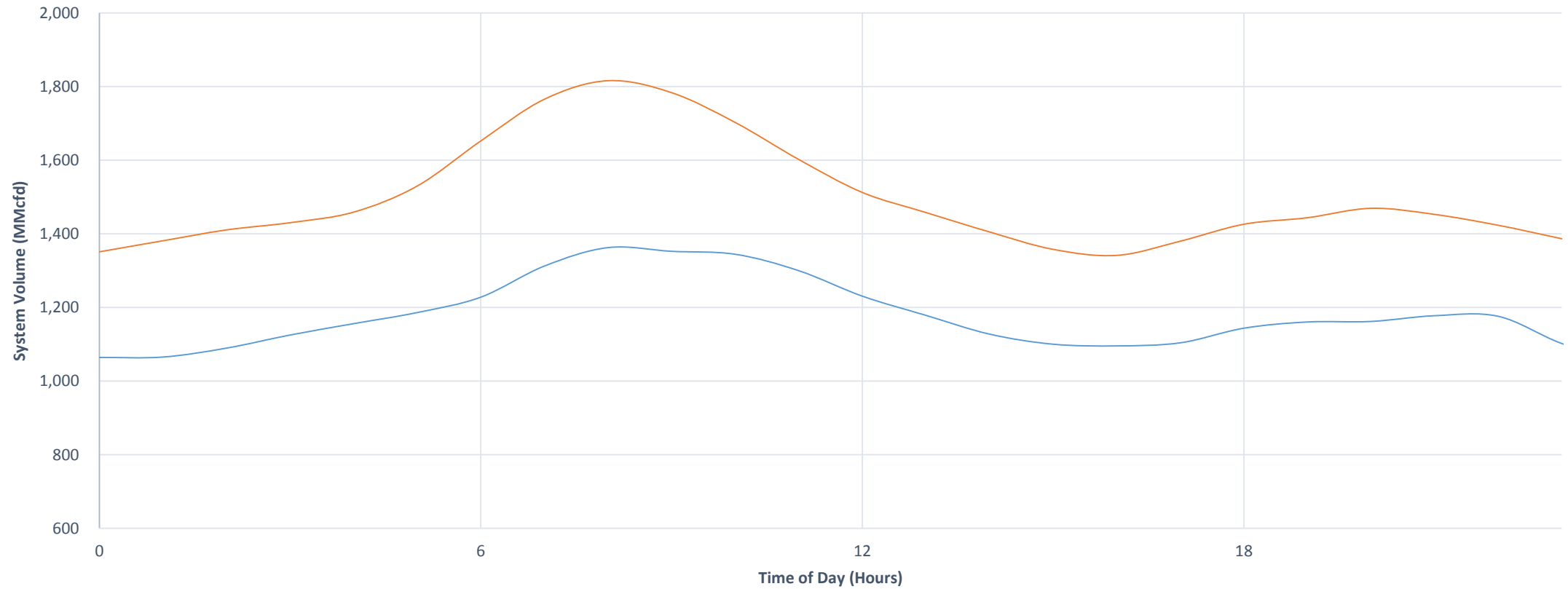


— High Sendout — Peak Day

12/6/2011

24°F Mean

2012-13 Peak Day Vs. High Sendout

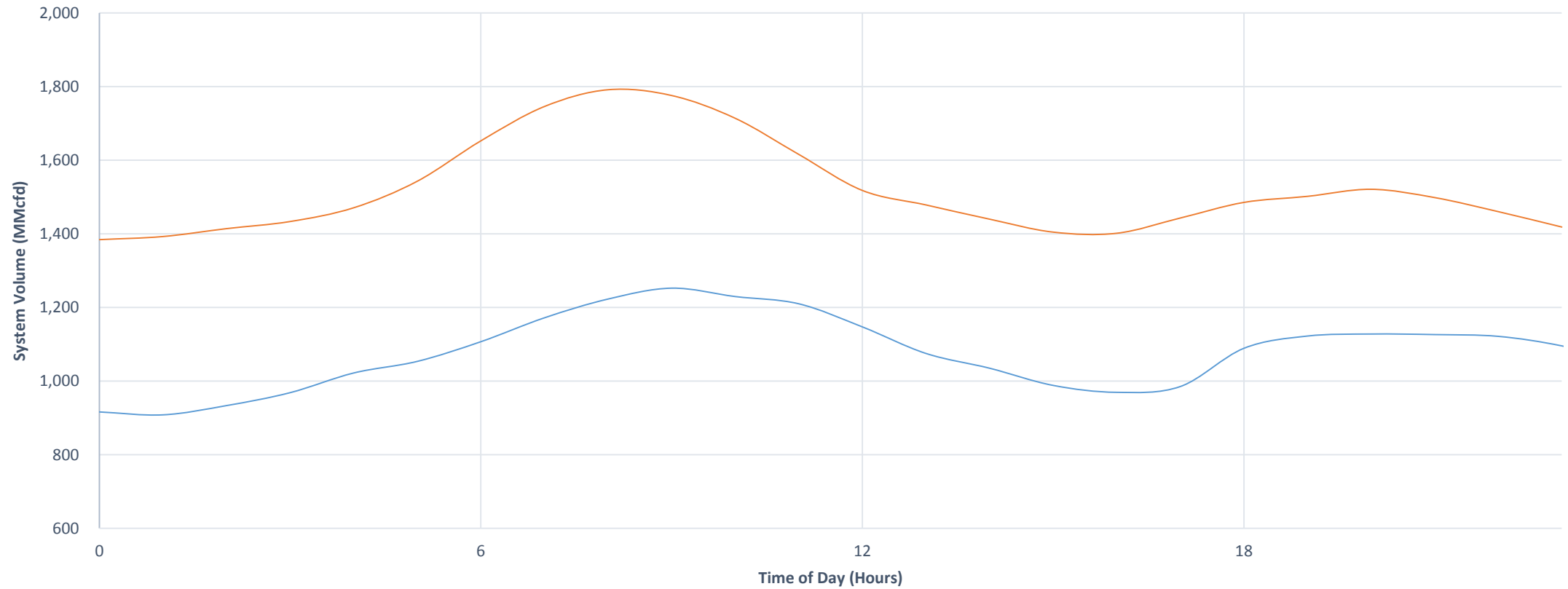


— High Sendout — Peak Day

1/14/2013

6°F Mean

2013-14 Peak Day Vs. High Sendout

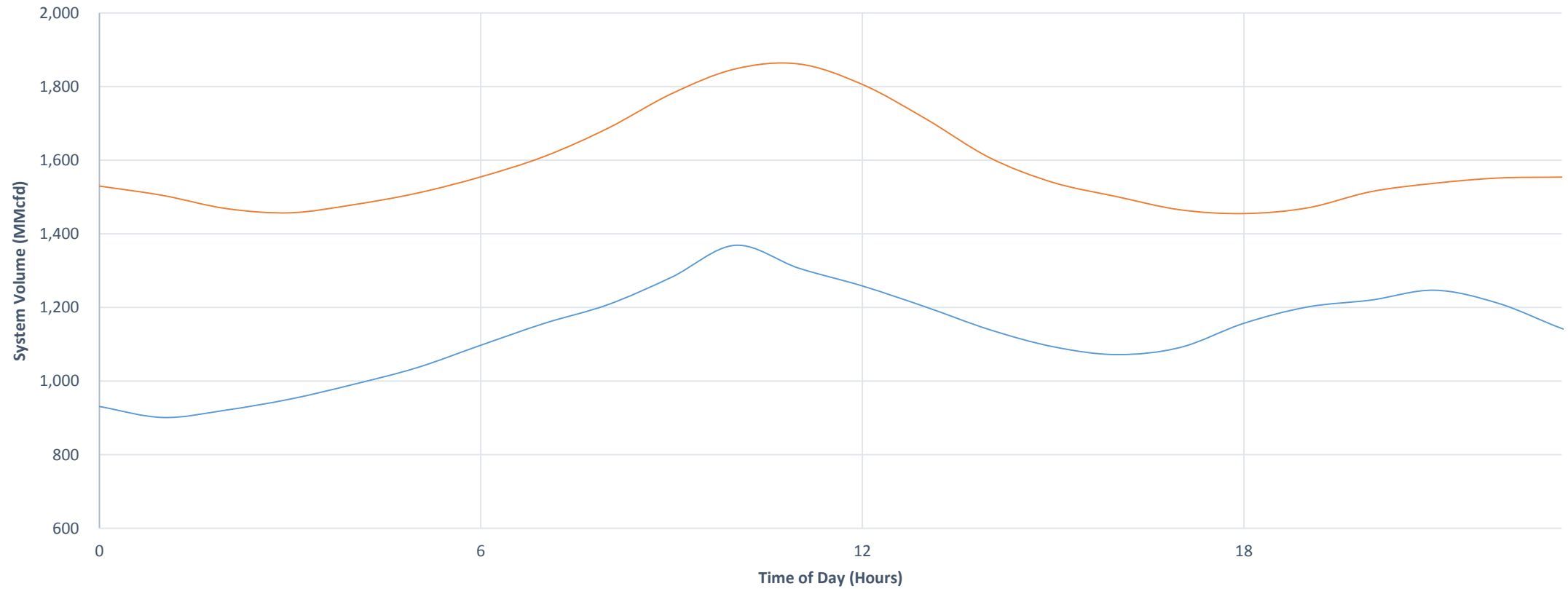


— High Sendout — Peak Day

12/13/2013

20°F Mean

2014-15 Peak Day Vs. High Sendout

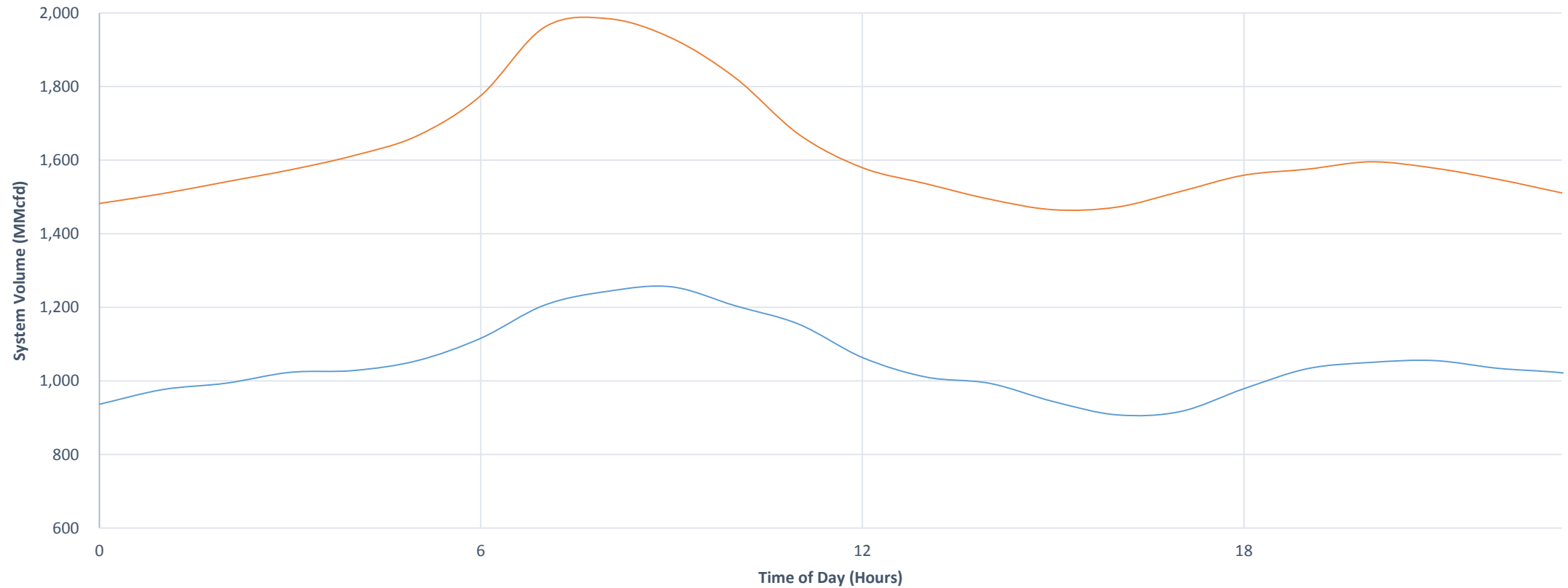


— High Sendout — Peak Day

12/30/2014

11°F Mean

2015-16 Peak Day Vs. High Sendout

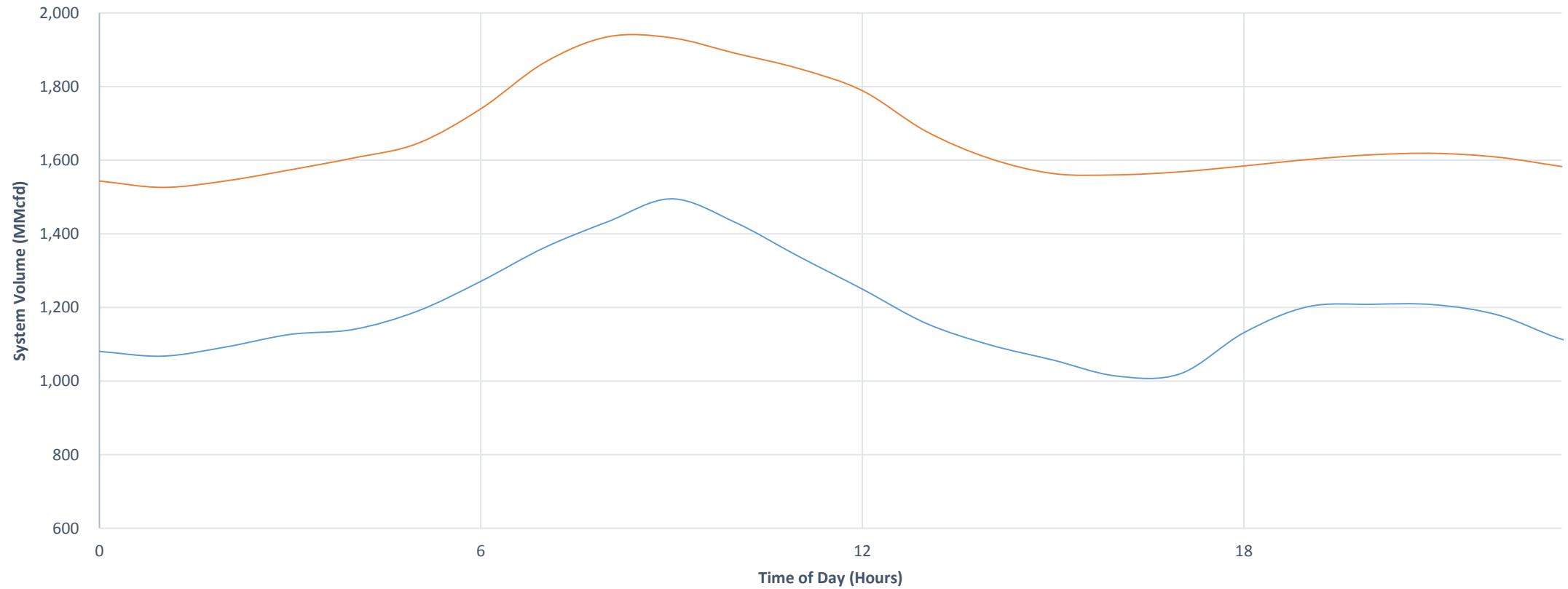


— High Sendout — Peak Day

1/1/2016

12°F Mean

2016-17 Peak Day Vs. High Sendout

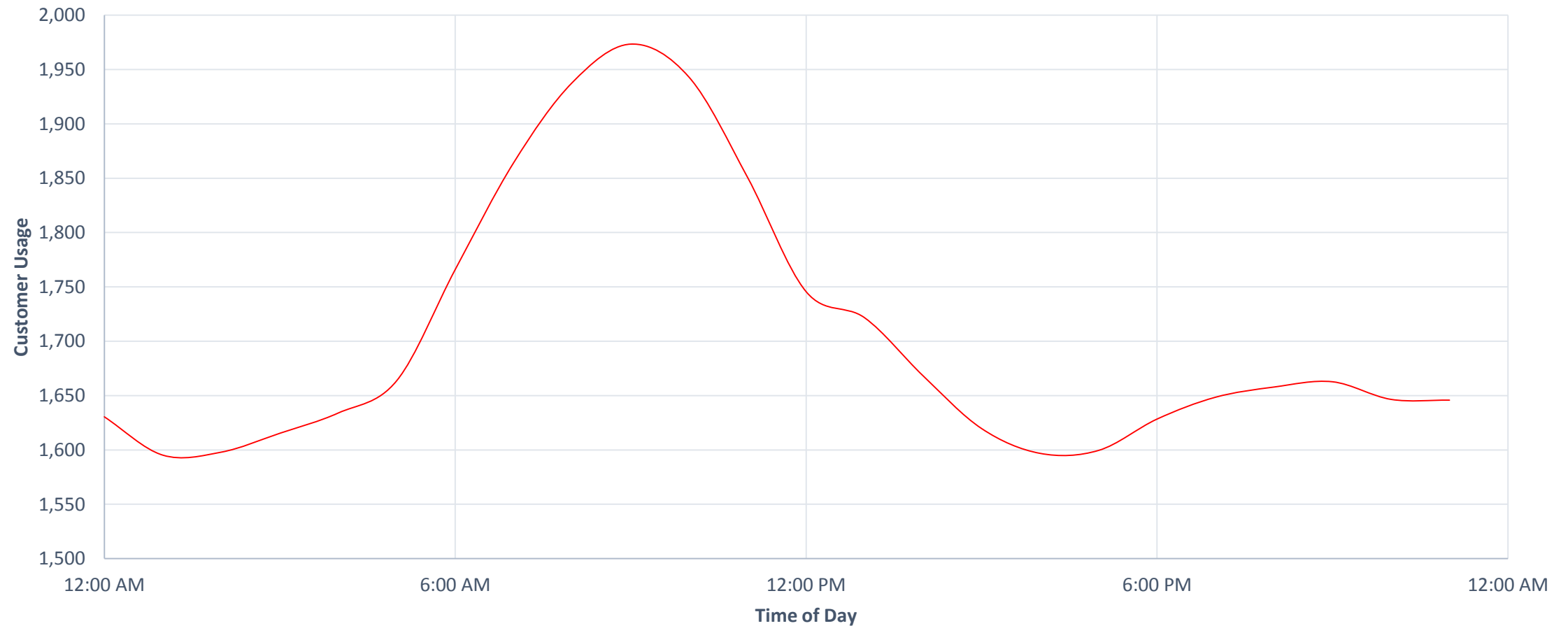


— High Sendout — Peak Day

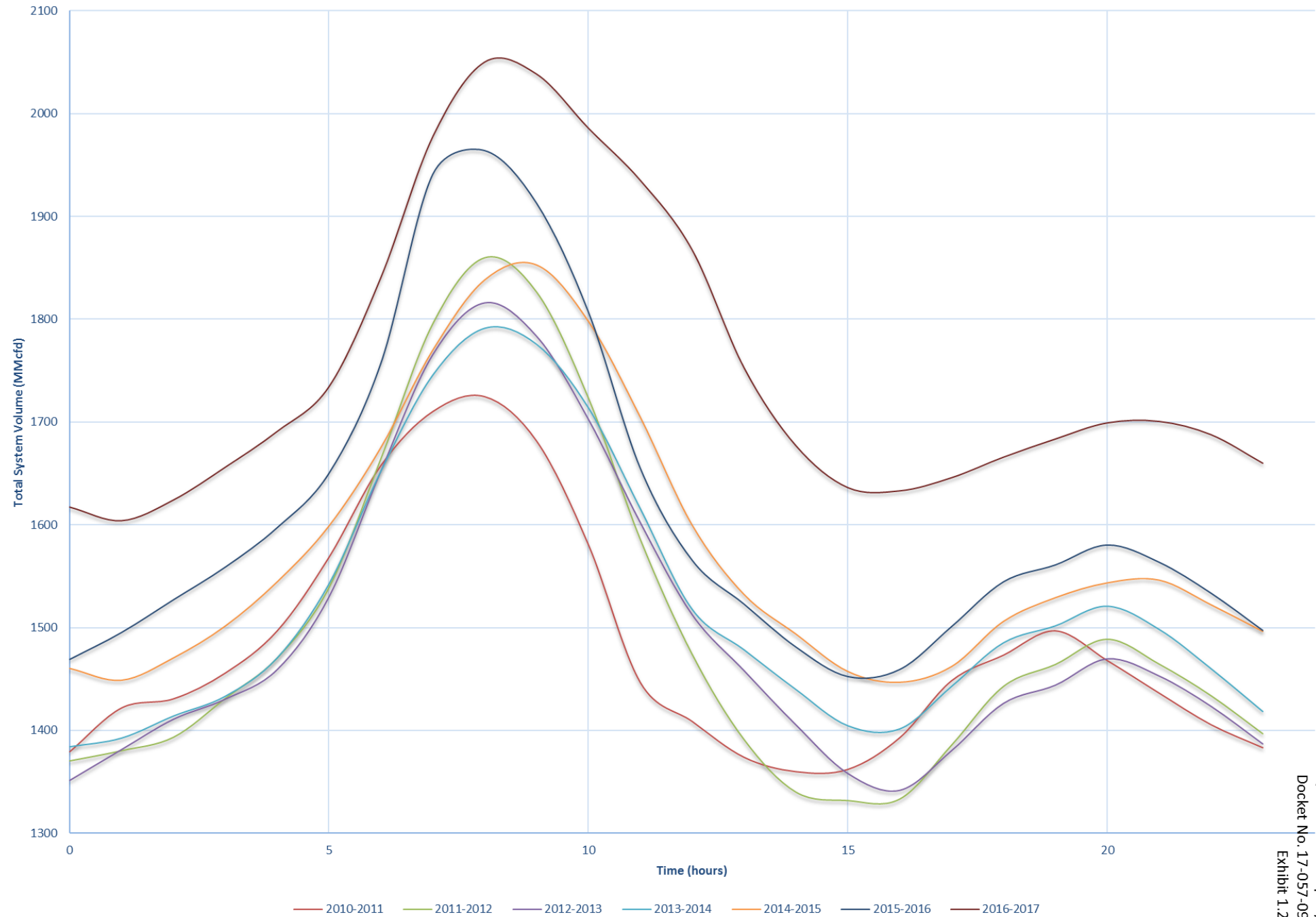
1/6/2017

6°F Mean

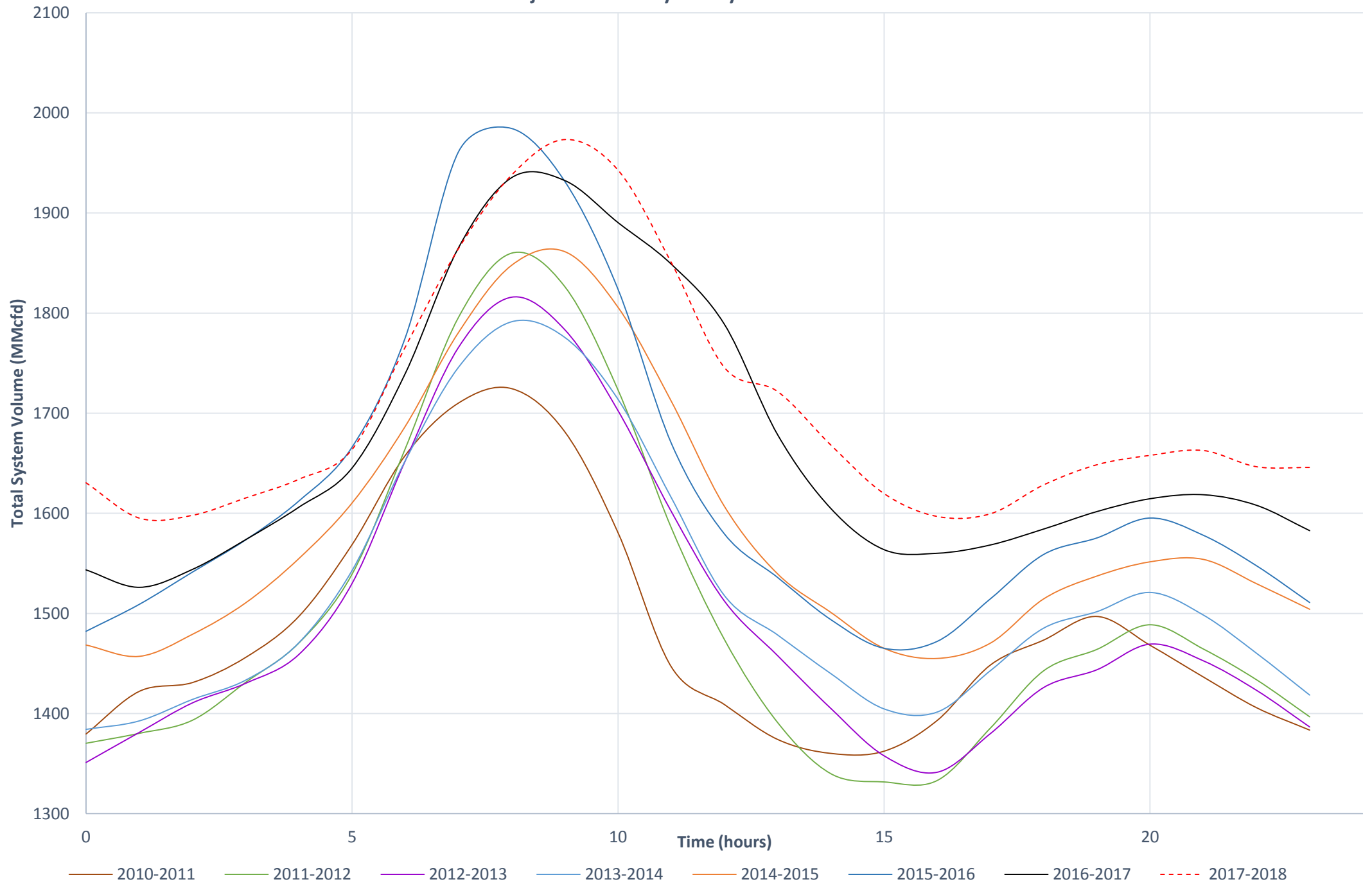
2017-2018 Peak Day



Projected Peak Day Hourly Volume



Projected Peak Day Hourly Volume



4. Exhibit 1.5, Daily and Hourly Usage Ex. Lakeside Spreadsheet: ‘Data by Hour’ tab displays hourly data for several classifications of customers, i.e., TS Large Non-Wasatch, TS Small Non-Wasatch, TS small Wasatch, TS Large Wasatch, Systemwide Total, etc.:
- a. Please define what each category of the spreadsheet represents.
 - b. Pertaining to the column “Systemwide less TS,” when subtracting “TS Total” values from “Systemwide Total” values, the results appear to be different than the values provided in the “Systemwide less TS” column. Please explain the apparent discrepancy. ***It was labeled incorrectly. Label should have read “System wide less Lakeside volumes”.***

5. Proposed revisions to the MT rate schedule: The new “Annual Peak Hour Demand Charge” is presented as \$0.56 but is not provided on a monthly basis. Also, the charge is included under the administrative charge section. Should it more appropriately be included under a new Firm Demand Charge per Dth (see §5.01) section?

5.06 MT RATE SCHEDULE

MT RATE

Rates Per Dth Used Each Month Dth = <u>decatherm</u> = 10 <u>therms</u> = 1,000,000 Btu	
MT Volumetric	\$0.65141/Dth
Energy Assistance	0.00273/Dth
Infrastructure Rate Adjustment	0.06174/Dth
Distribution Non-Gas Rate	\$0.71588/Dth
Daily Transportation Imbalance Charge (outside +/- 5% tolerance)	\$0.08125/Dth

MT FIXED CHARGES

Monthly Basic Service Fee (BSF): For a definition of BSF categories see § 8.03.	BSF Category 1	\$6.75
	BSF Category 2	\$18.25
	BSF Category 3	\$63.50
	BSF Category 4	\$420.25
Administrative Charge (see § 5.01).	Annual	\$4,500.00
	Monthly Equivalent	\$375.00
<u>Firm Demand Charge per Dth (see §5.01)</u>		
	<u>Annual Peak Hour Demand Charge</u>	<u>\$0.56</u>
	<u>Monthly Equivalent</u>	<u>\$0.047</u>

6. Proposed revisions to FT-1 and TS rate schedules. For clarity, would it be appropriate to include in the line title “Firm Demand Charge per Dth (see §5.02)” a reference to §5.01 as that is where the new peak hour charge is discussed in the Tariff?

5.07 TS RATE SCHEDULE

TS VOLUMETRIC RATES

Rates Per Dth Redelivered Each Month				
Dth = <u>decatherm</u> = 10 <u>therms</u> = 1,000,000 Btu				
	First 200 Dth	Next 1,800 Dth	Next 98,000 Dth	All Over 100,000 Dth
Base DNG	\$0.73301	\$0.47917	\$0.19596	\$0.07253
Energy Assistance	0.00073	0.00073	0.00073	0.00073
Infrastructure Rate Adjustment	0.04550	0.02974	0.01216	0.00450
Distribution Non-Gas Rate	\$0.77924	\$0.50964	\$0.20885	\$0.07776

Penalty for failure to interrupt or limit usage when requested by the Company See § 3.02

Daily Transportation Imbalance Charge per Dth (outside +/- 5% tolerance) \$0.08125

TS FIXED CHARGES

Monthly Basic Service Fee (BSF):	BSF Category 1	\$6.75
	BSF Category 2	\$18.25
For a definition of BSF categories see § 8.03.	BSF Category 3	\$63.50
	BSF Category 4	\$420.25
Administrative Charge (see § 5.01).	Annual	\$4,500.00
	Monthly Equivalent	\$375.00
Firm Demand Charge per Dth (see §5.01 and §5.02).	Base Annual	\$25.81
	Infrastructure Adder	\$1.60184
	Peak Hour Charge	\$0.56
	Total Annual	\$27.97
	Monthly Equivalent	\$2.33

UAE

Explain how the company chose a 100,000 Dth volume for peaking service, and why it is or is not adequate or more than adequate.

Explain why Dominion proposes to collect the cost of the peaking service as a demand charge.