

Part 1 - Appendix D
MPS Forecast Reports

Missouri 4 CSR 240-22.030 (8) Reporting Requirements
Load Analysis and Forecasting

(8)(A) For each major class specified in subsection (1)(A) the utility shall provide plots of number of units, energy usage per unit and total class energy usage.

(8)(A)(1) Plots shall be produced for the summer period (June through September), the remaining non-summer months and the calendar year.

(8)(A)(2) The plots shall cover the historical database period and the forecast period of at least twenty (20) years.

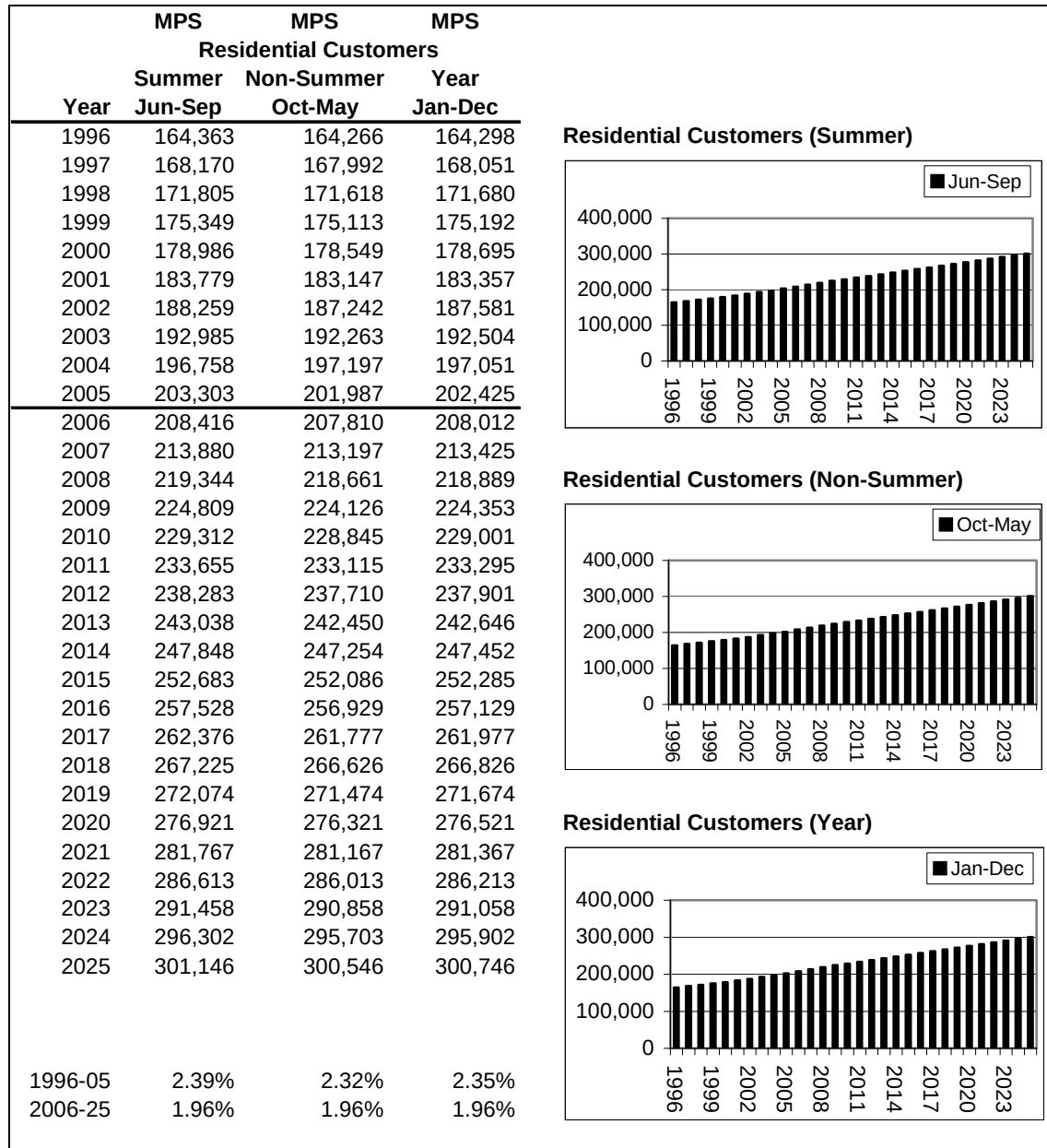
(8)(A)(2.A) The historical period shall include both actual and weather normalized energy usage per unit and total class energy usage.

(8)(A)(2.B) The plots for the forecast period shall show each end-use component of major class energy usage per unit and total class energy usage for the base-case forecast.

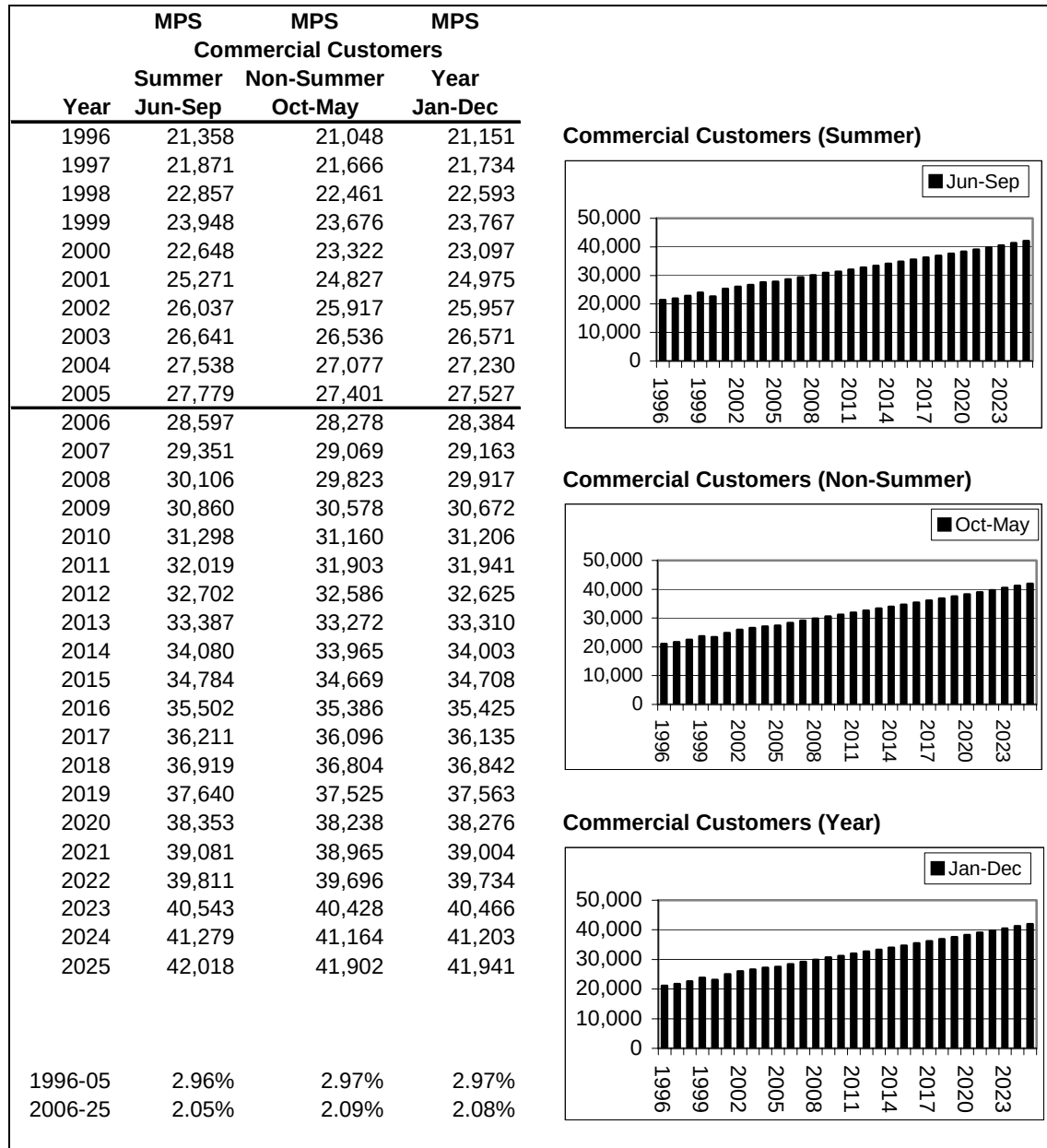
Compliance: See Plots D-1 through D-35 for base-case MPS forecast reports designed to comply with section (8)(A) reporting requirements.

Linked Files: Aquila Networks – Missouri Public Service (MPS)
8A_MPS_M2007F_Sales_B.xls

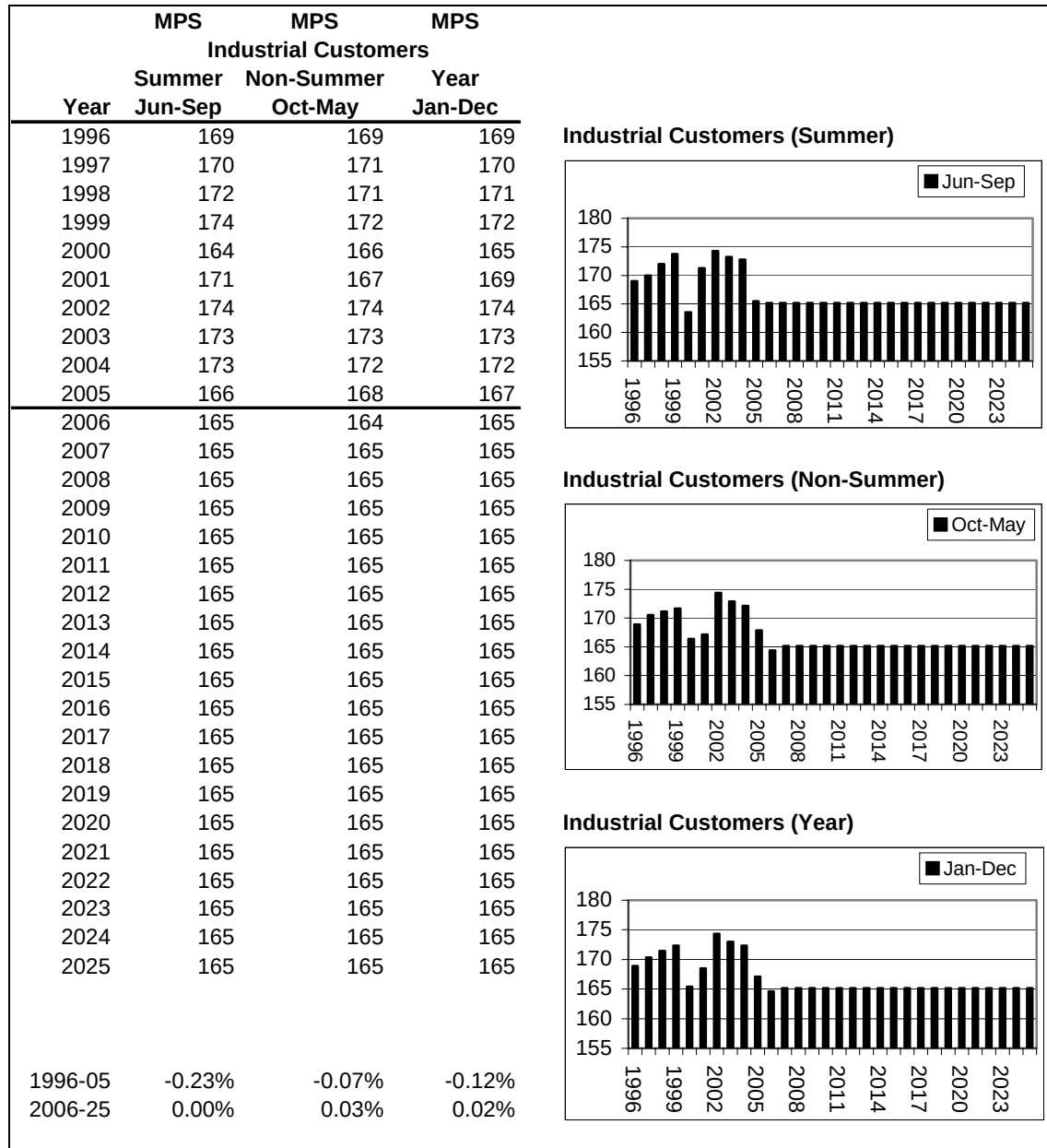
Plot D-1: MPS Residential Customers



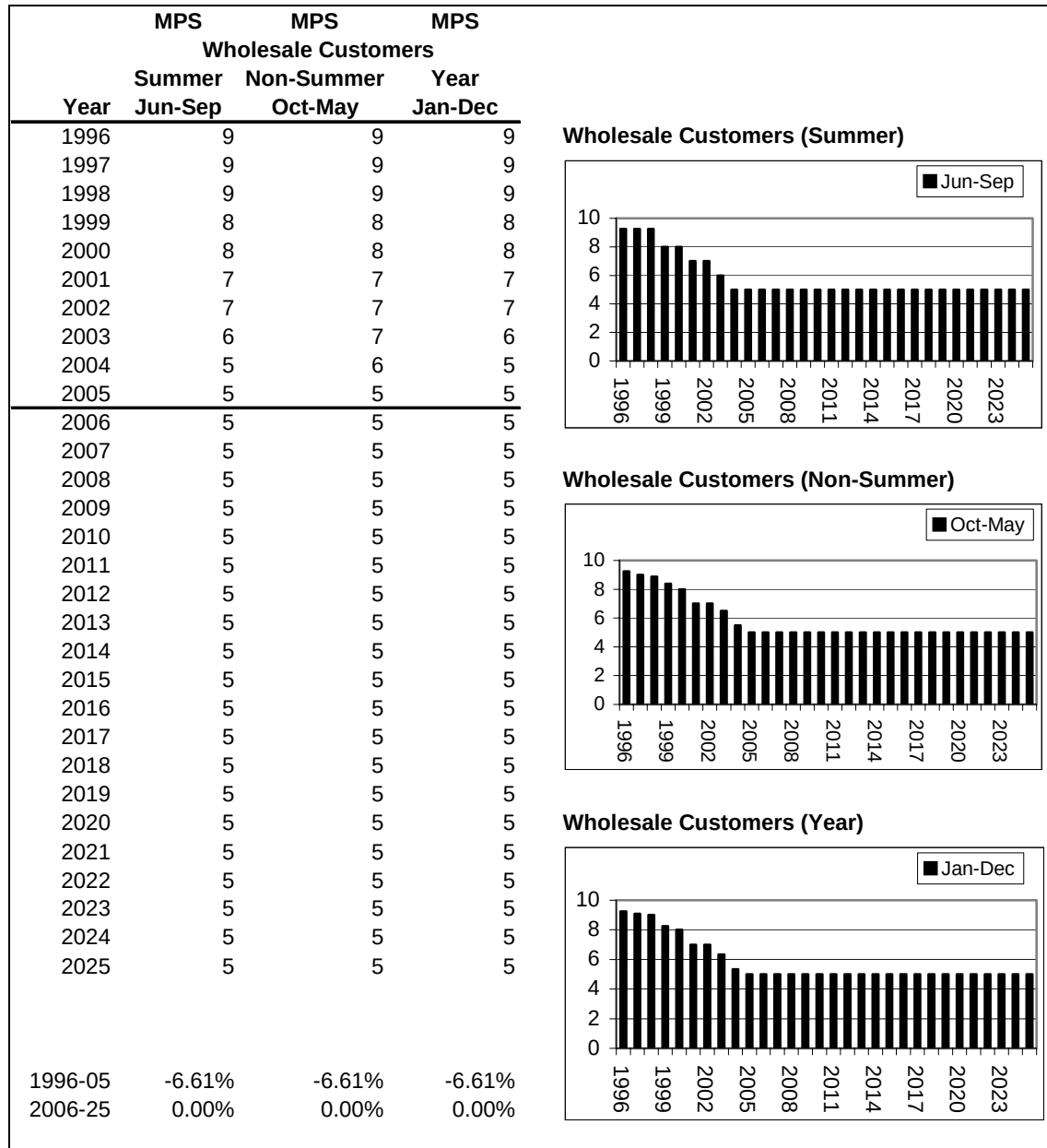
Plot D-2: MPS Commercial Customers



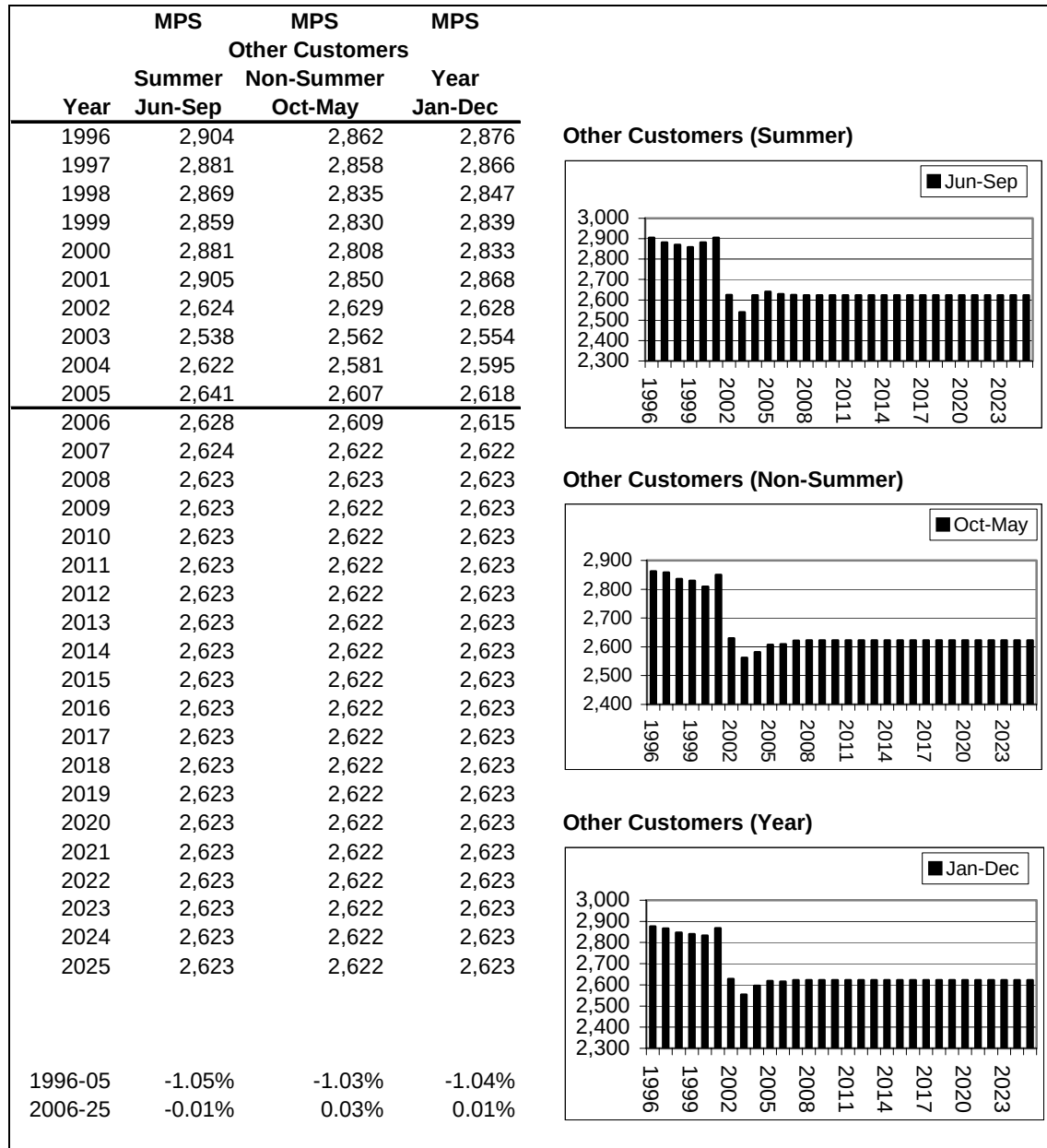
Plot D-3: MPS Industrial Customers



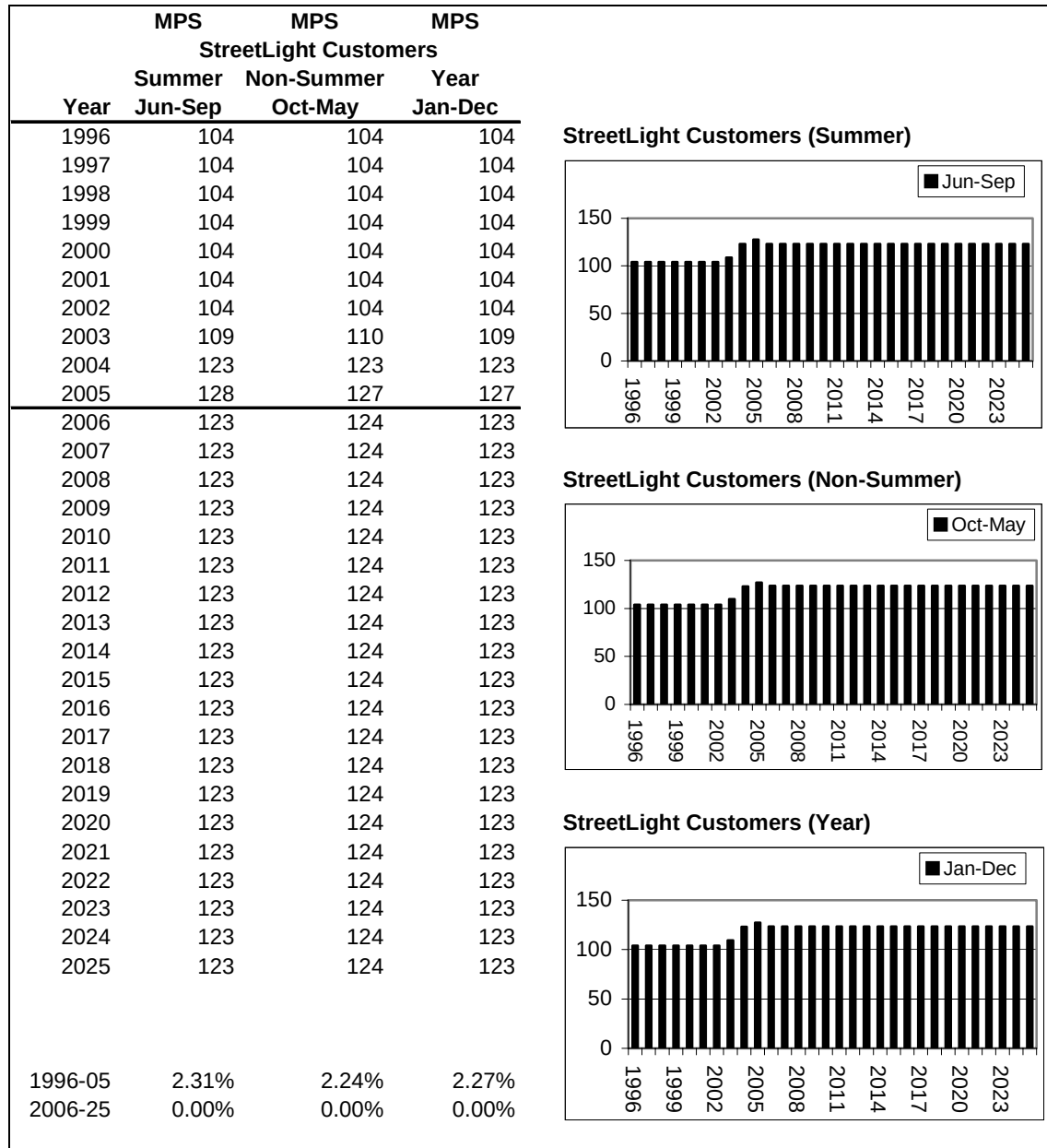
Plot D-4: MPS Wholesale Customers



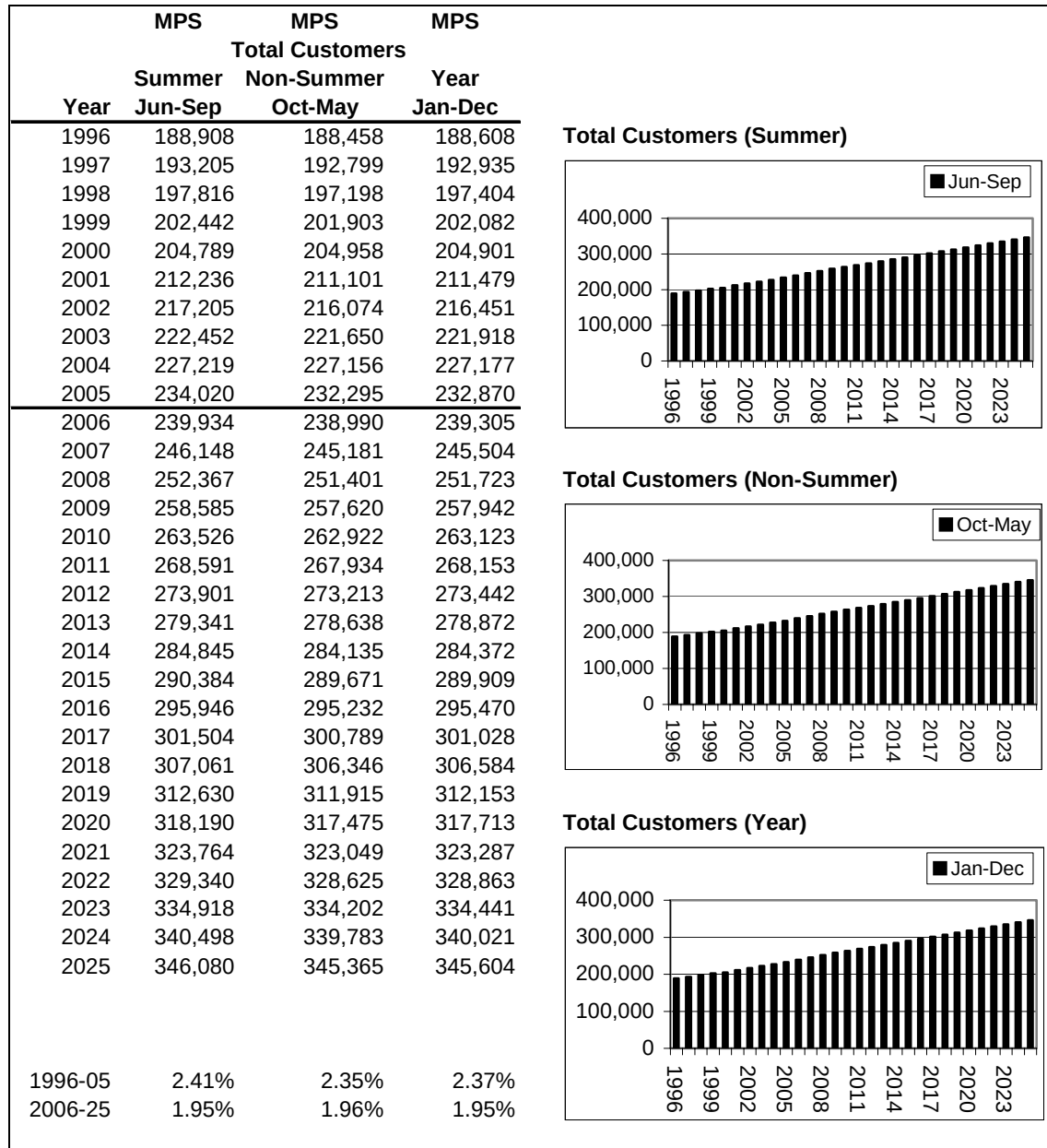
Plot D-5: MPS Other Customers



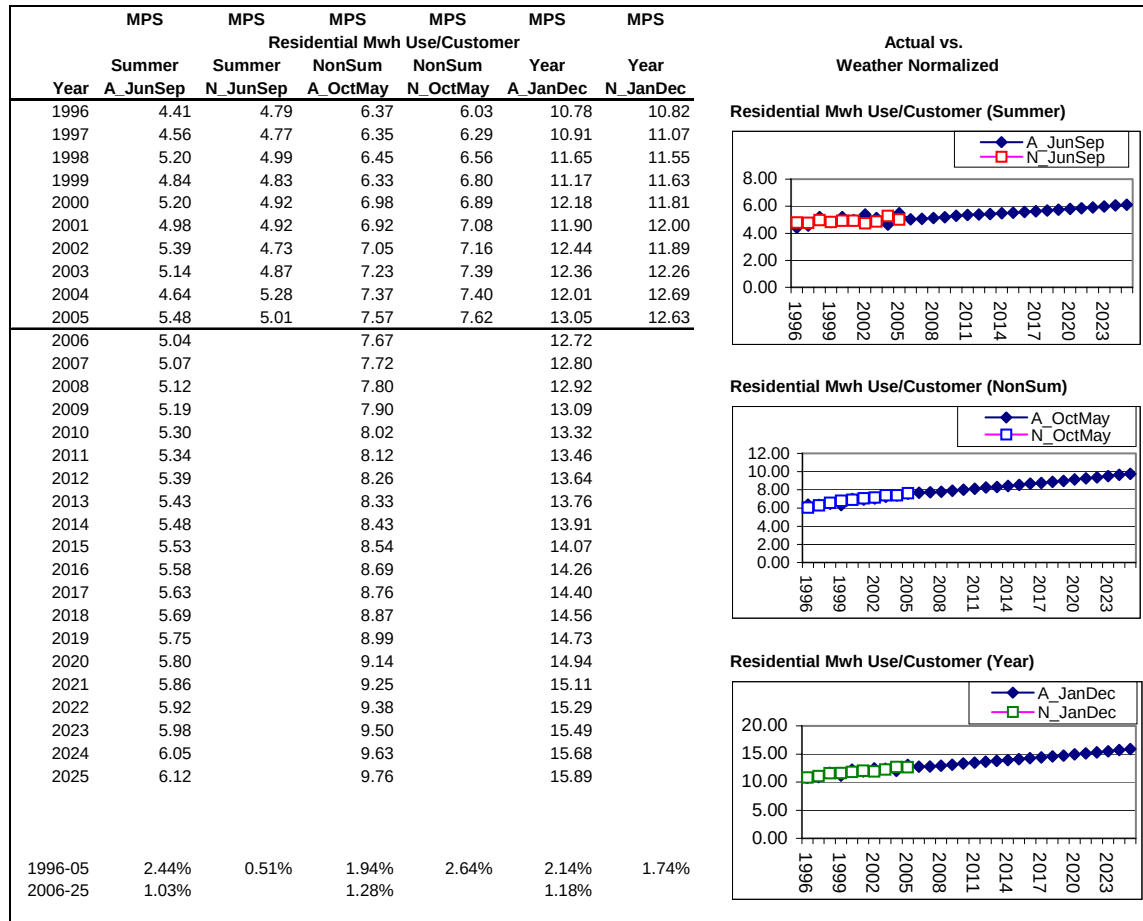
Plot D-6: MPS StreetLight Customers



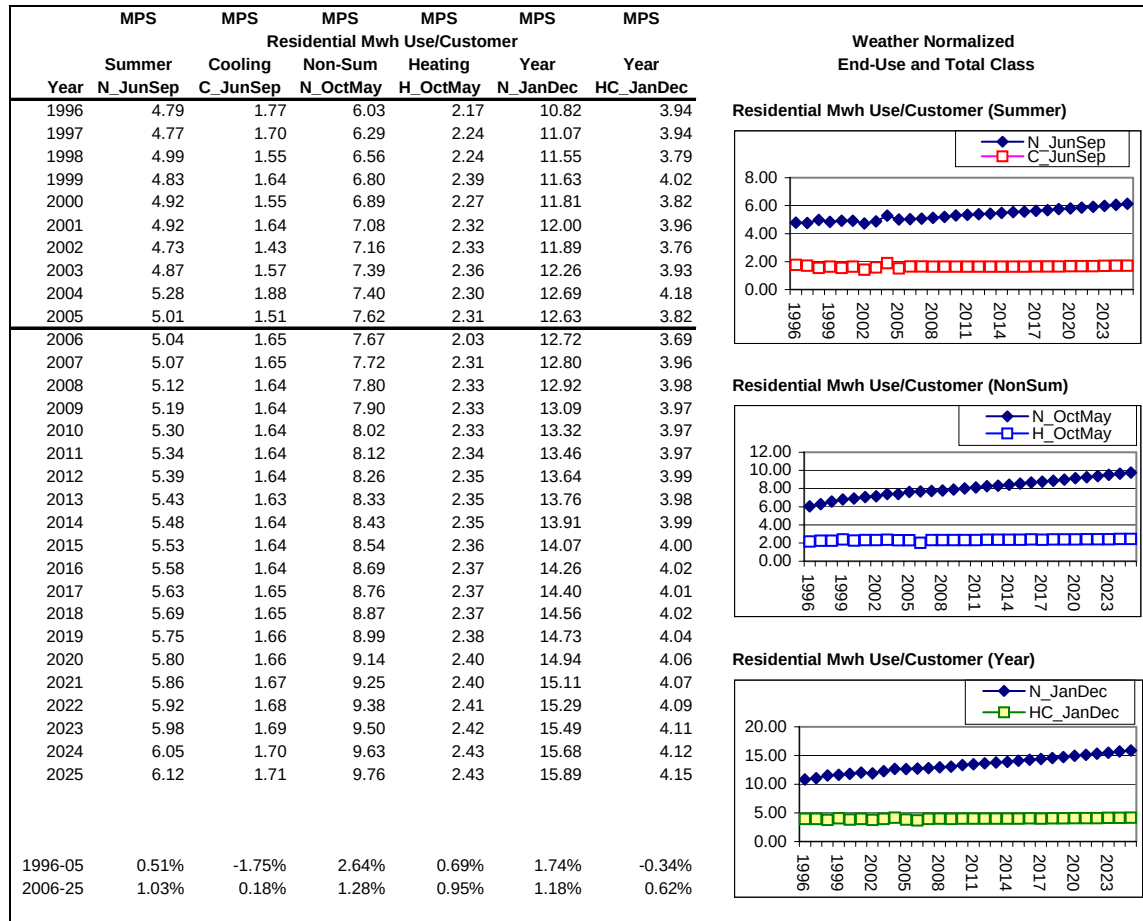
Plot D-7: MPS Total Customers



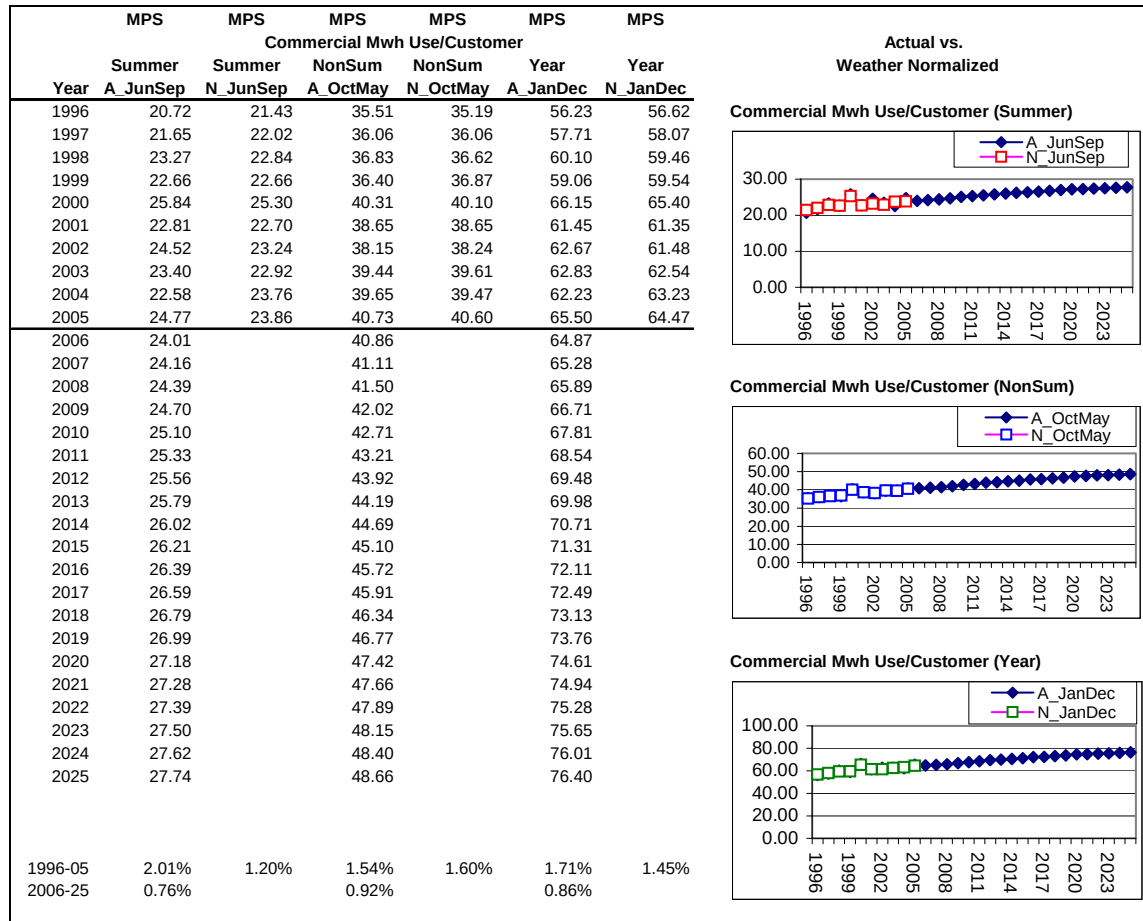
Plot D-8: MPS Residential MWh Use Per Customer
(Actual vs. Weather Normalized)



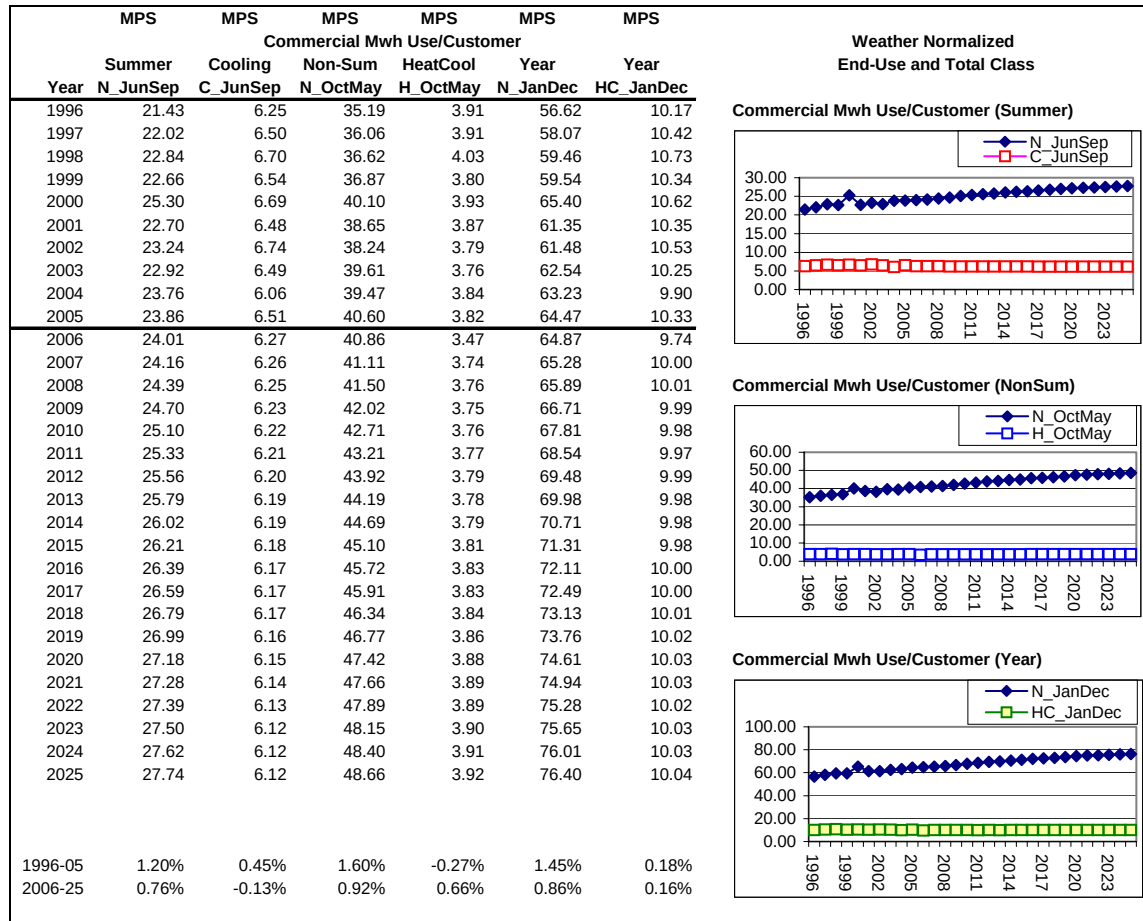
Plot D-9: MPS Residential MWh Use Per Customer by End-Use



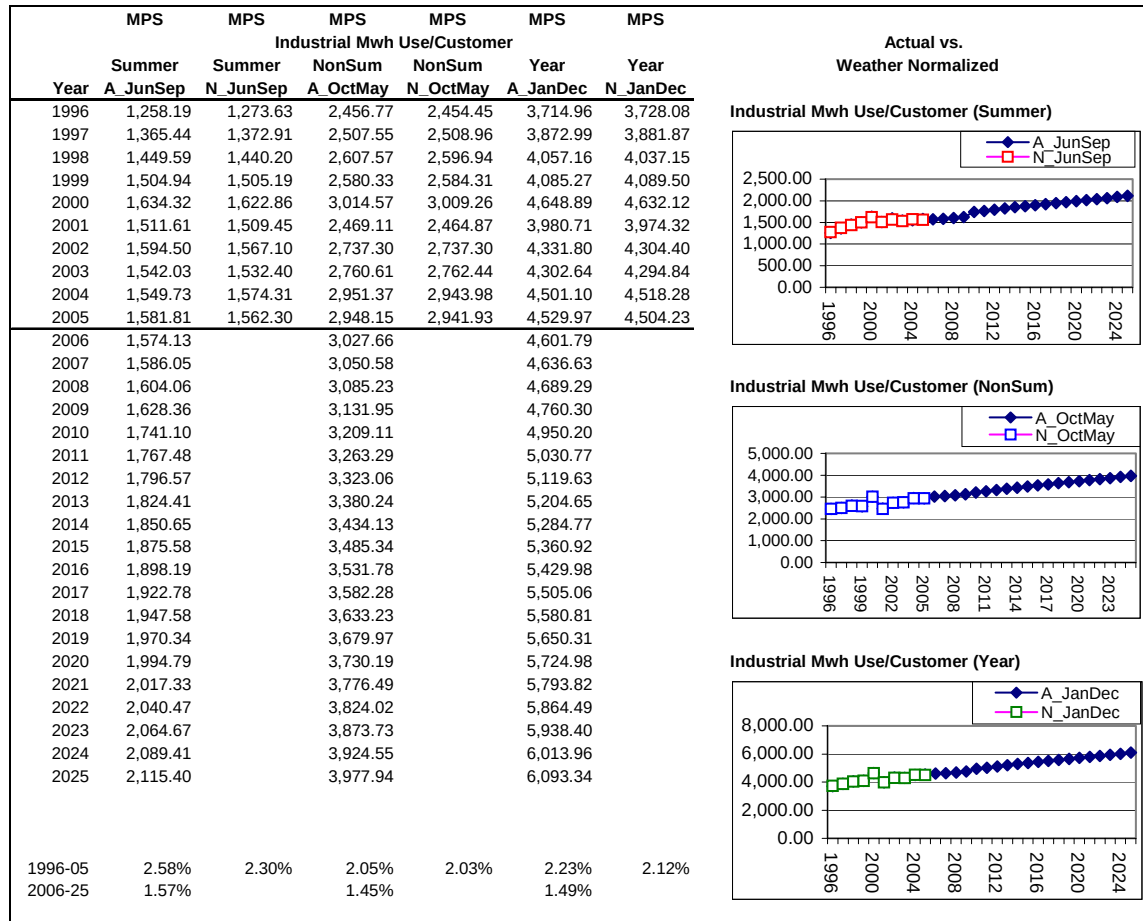
Plot D-10: MPS Commercial MWH Use Per Customer
(Actual vs. Weather Normalized)



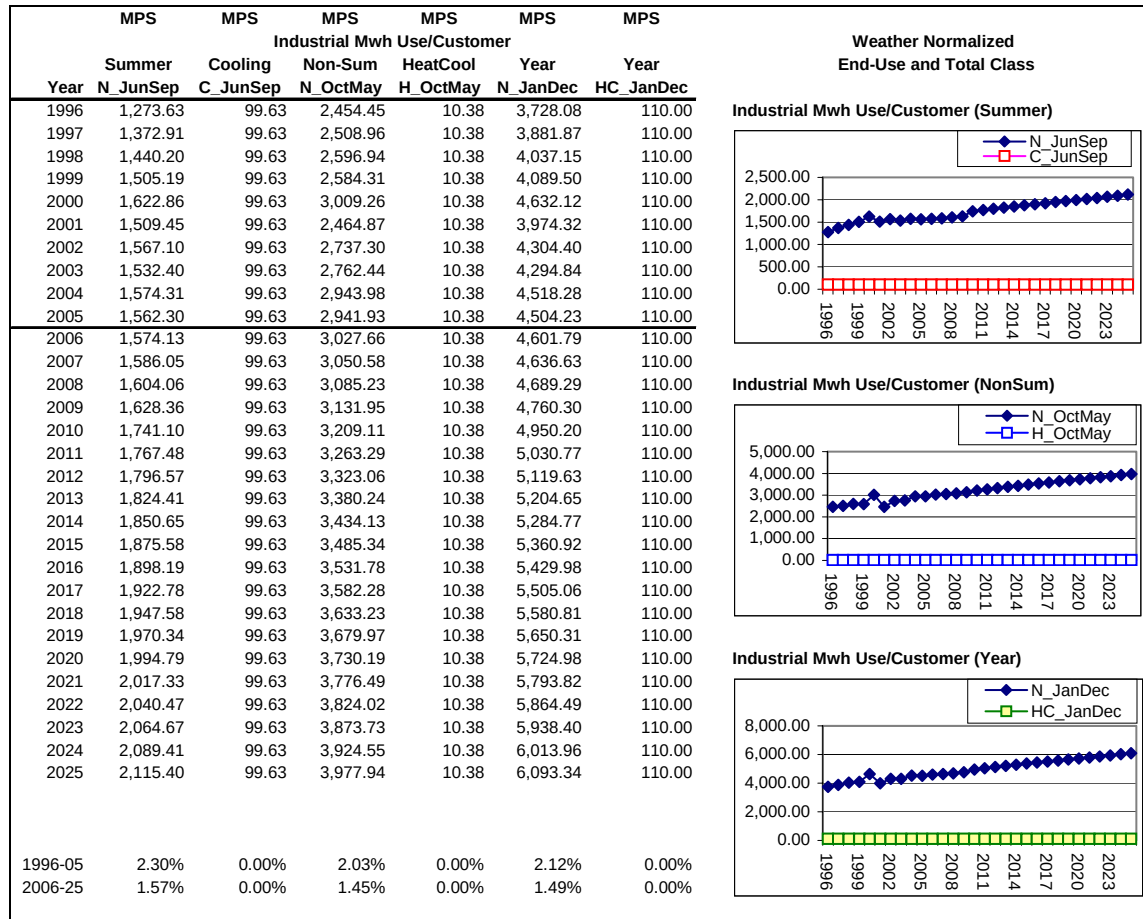
Plot D-11: MPS Commercial MWH Use Per Customer by End-Use



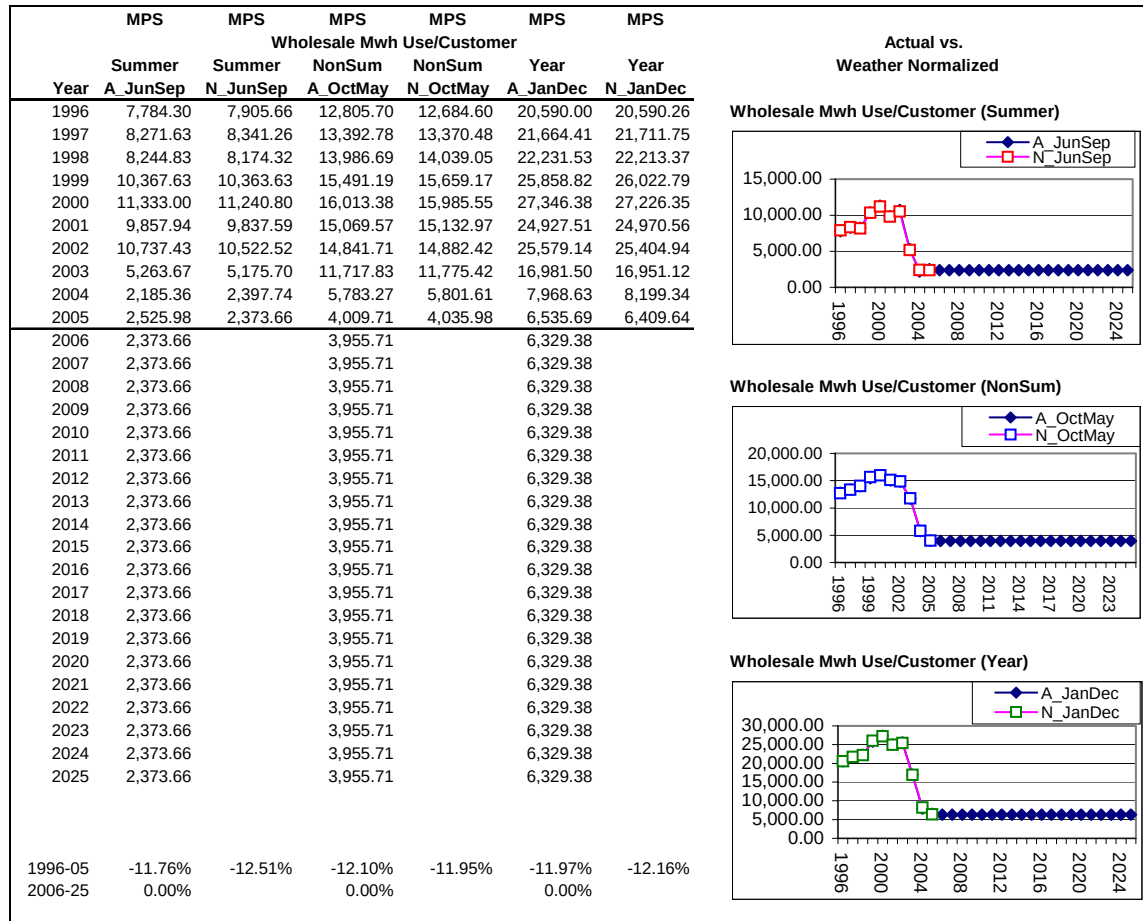
Plot D-12: MPS Industrial MWh Use Per Customer
(Actual vs. Weather Normalized)



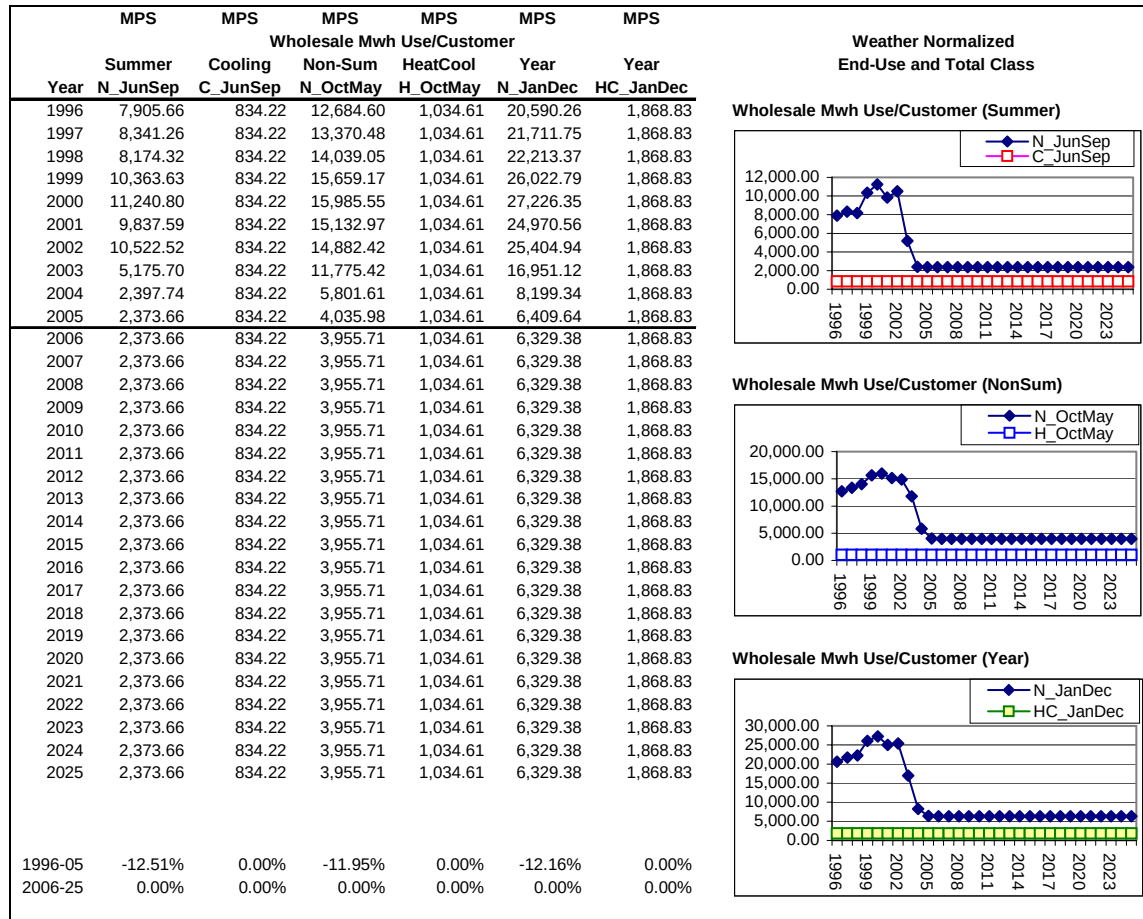
Plot D-13: MPS Industrial MWH Use Per Customer by End-Use



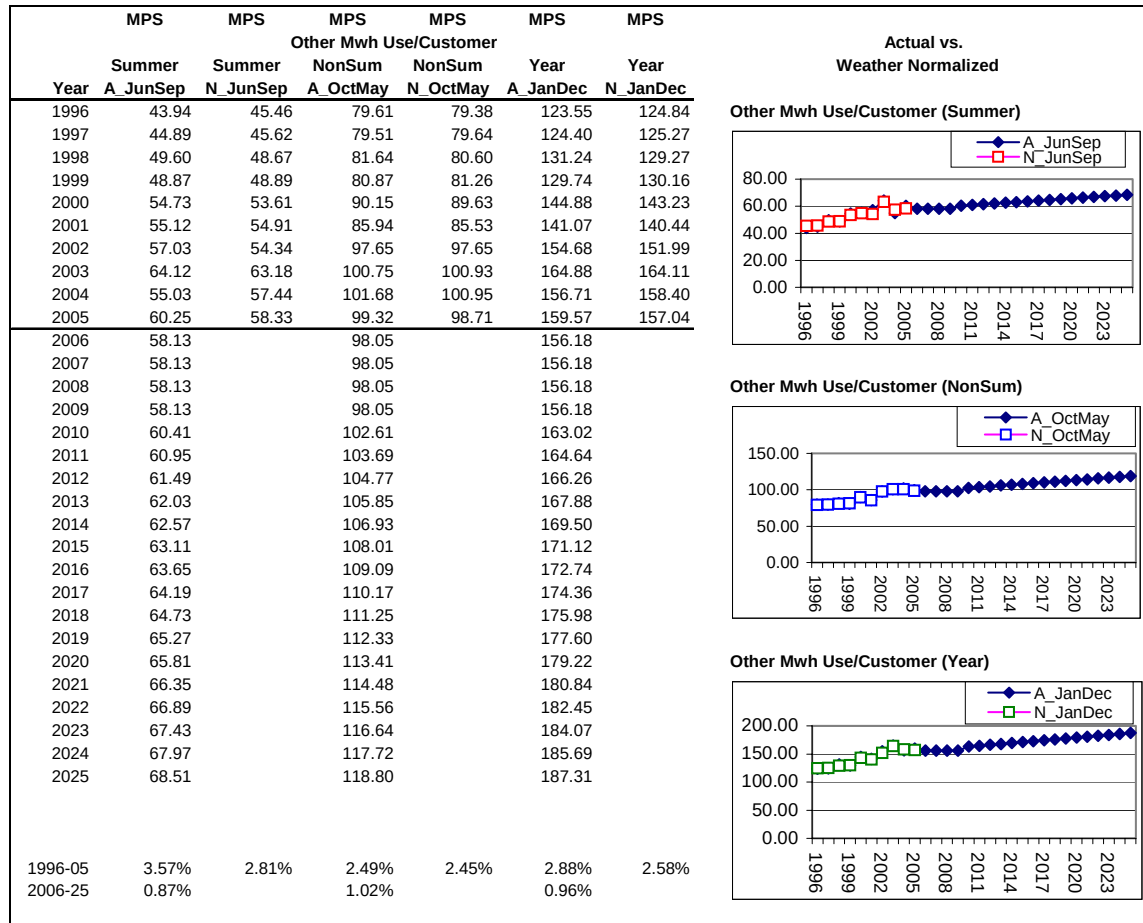
Plot D-14: MPS Wholesale MWH Use Per Customer
(Actual vs. Weather Normalized)



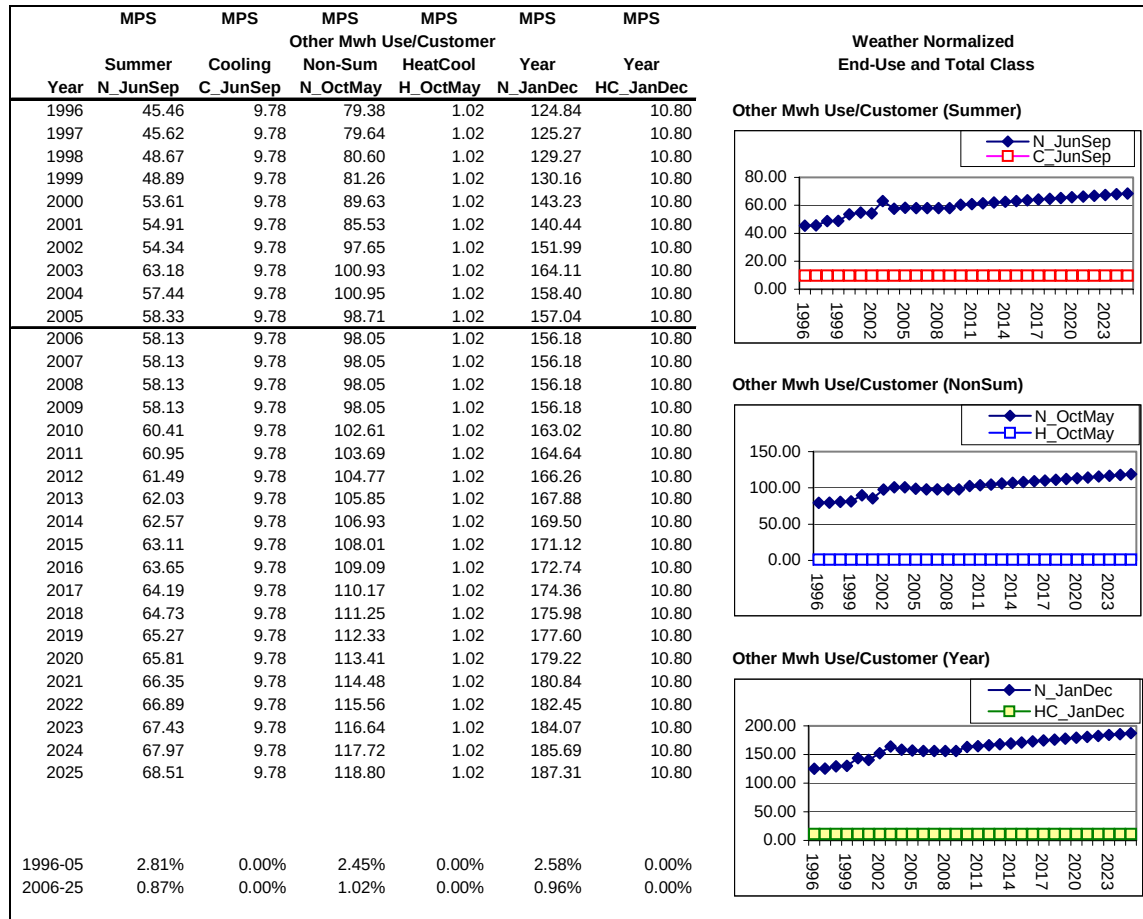
Plot D-15: MPS Wholesale MWh Use Per Customer by End-Use



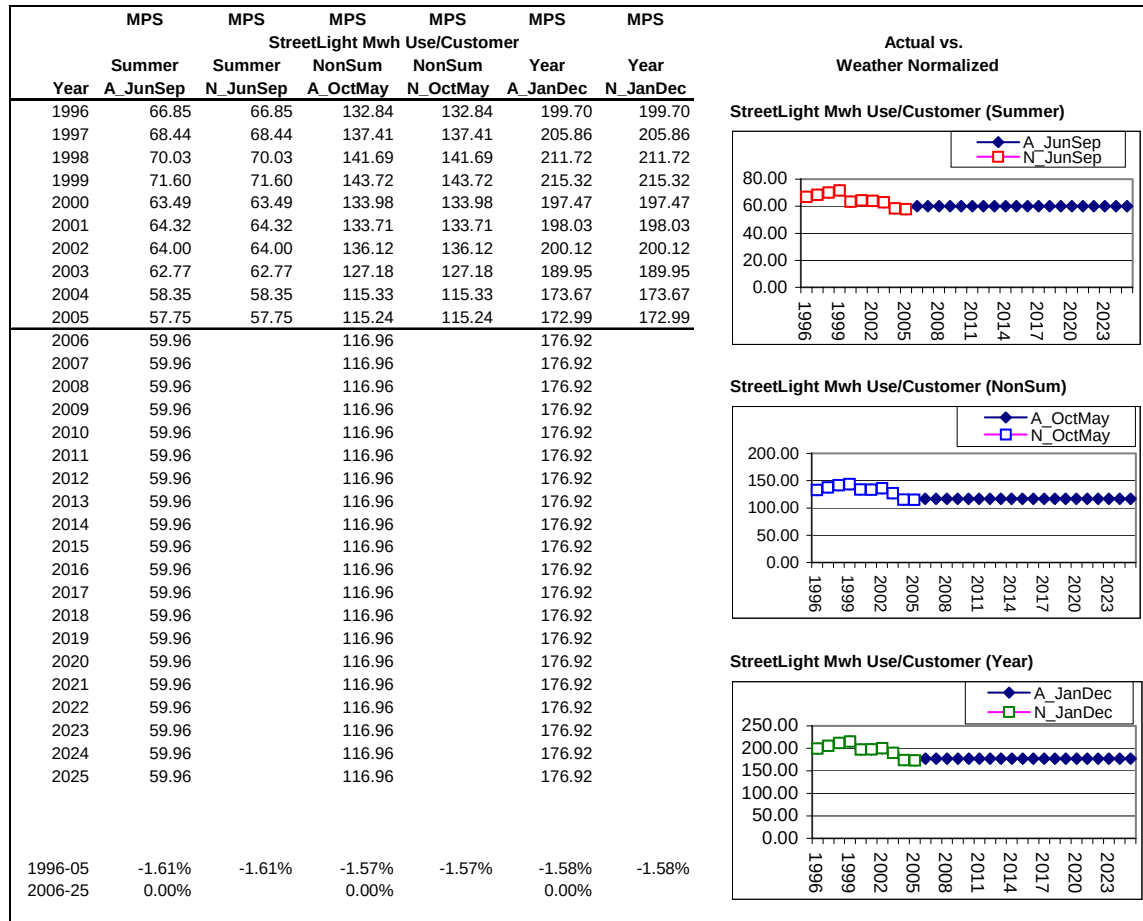
Plot D-16: MPS Other MWh Use Per Customer
(Actual vs. Weather Normalized)



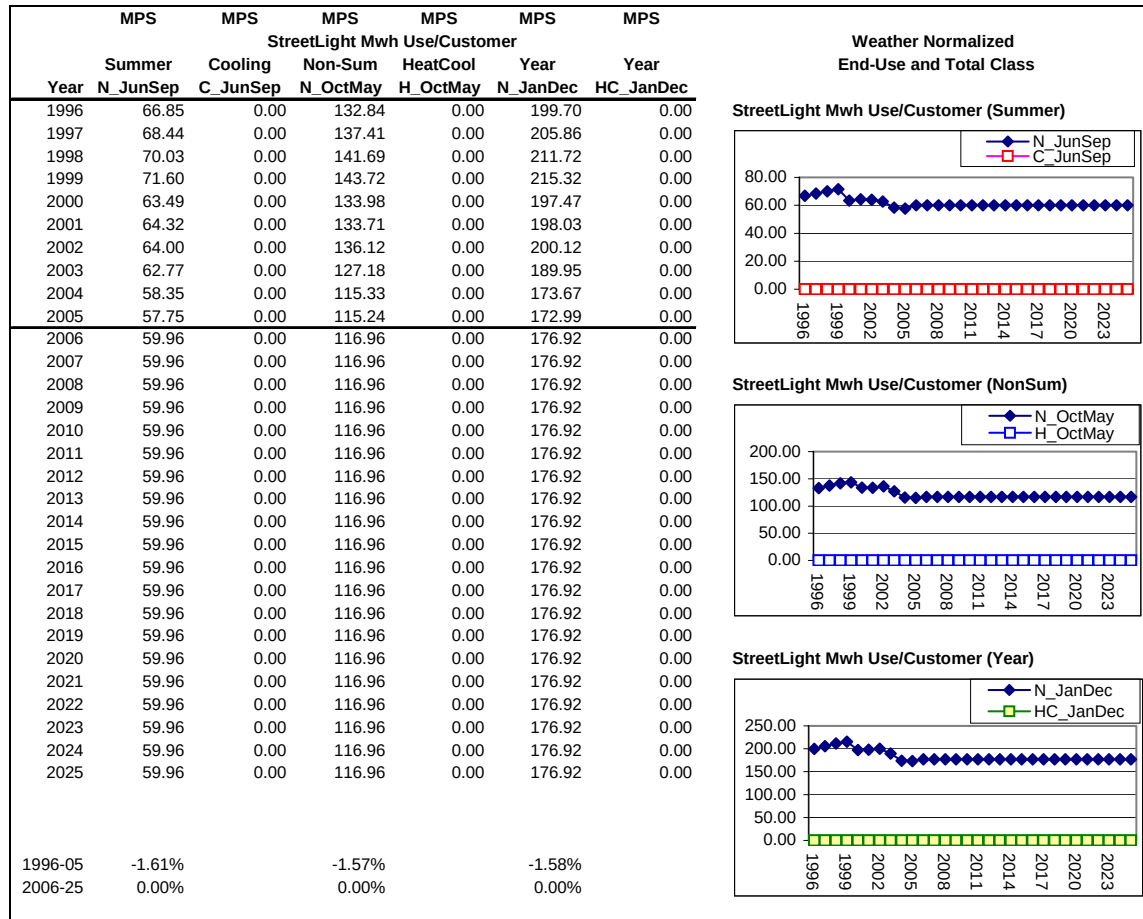
Plot D-17: MPS Other MWH Use Per Customer by End-Use



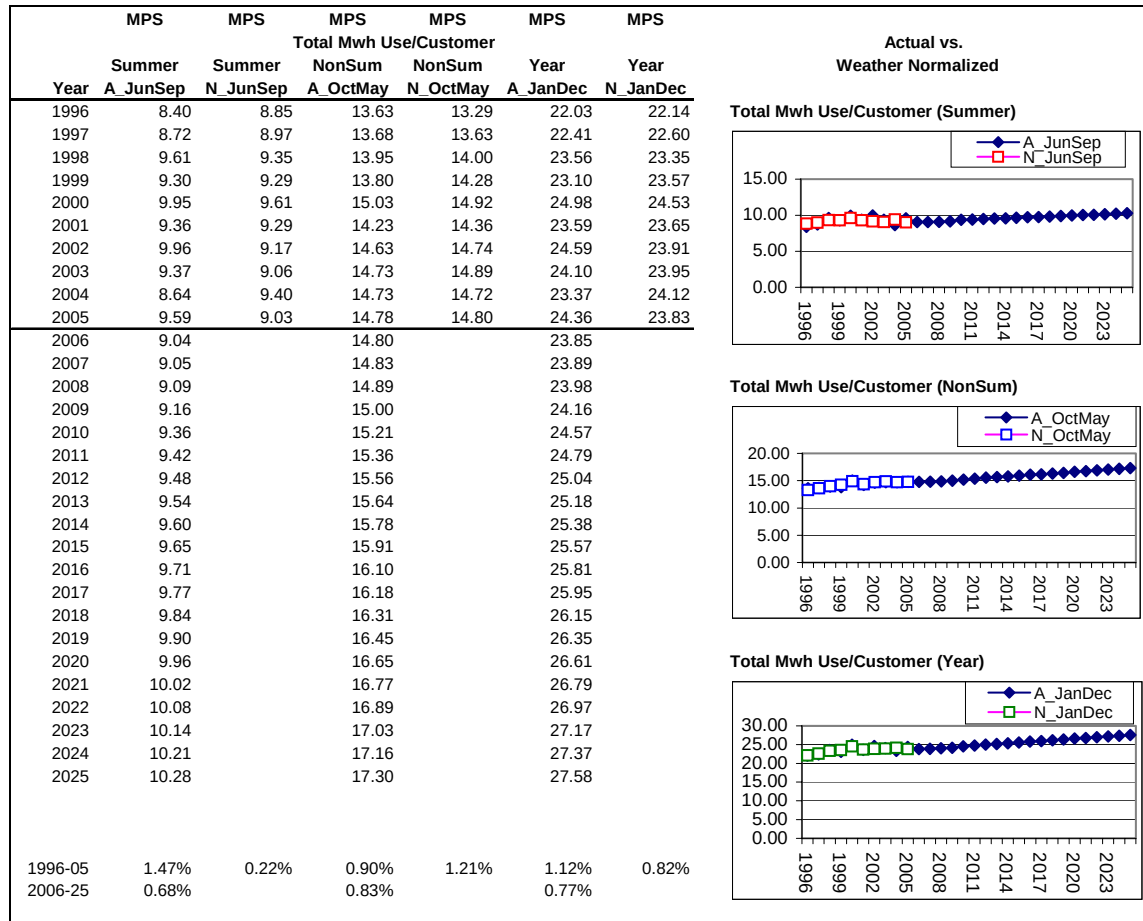
Plot D-18: MPS StreetLight MWh Use Per Customer
(Actual vs. Weather Normalized)



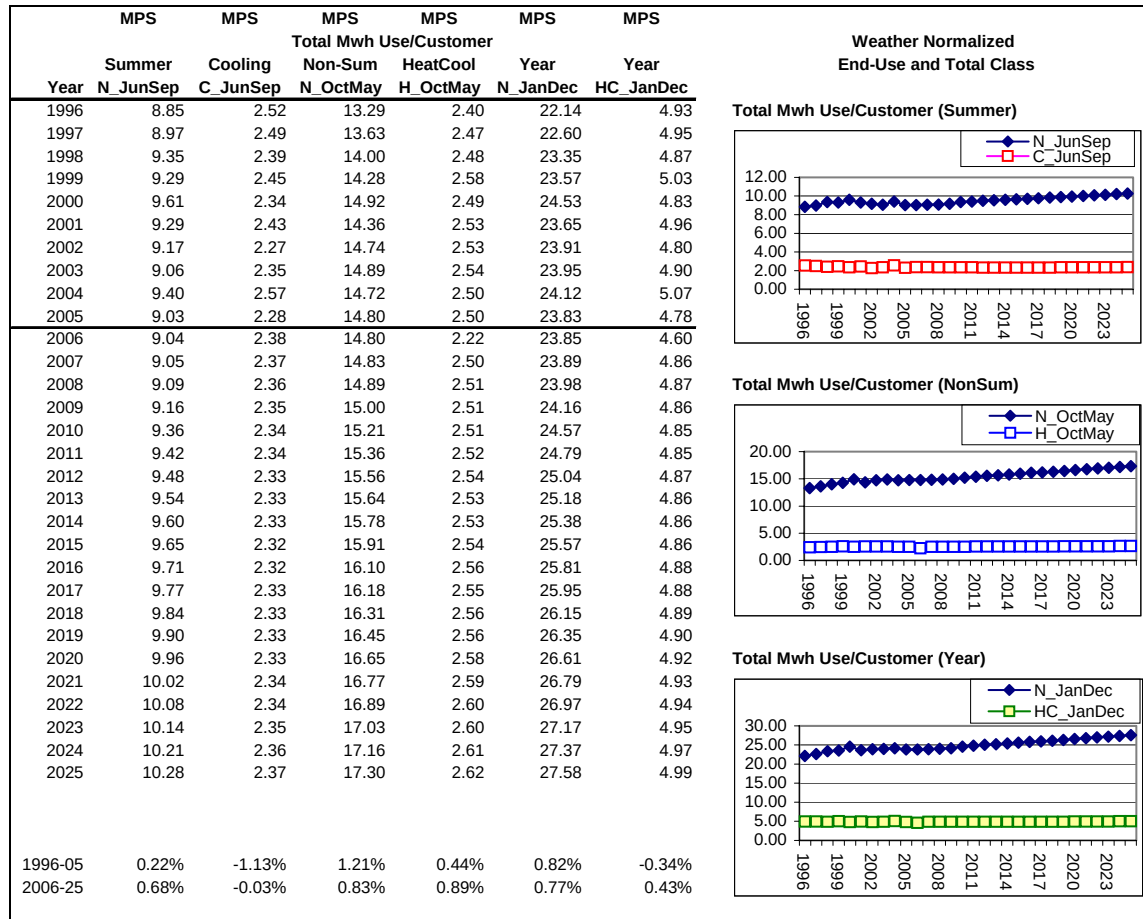
Plot D-19: MPS StreetLight MWH Use Per Customer by End-Use



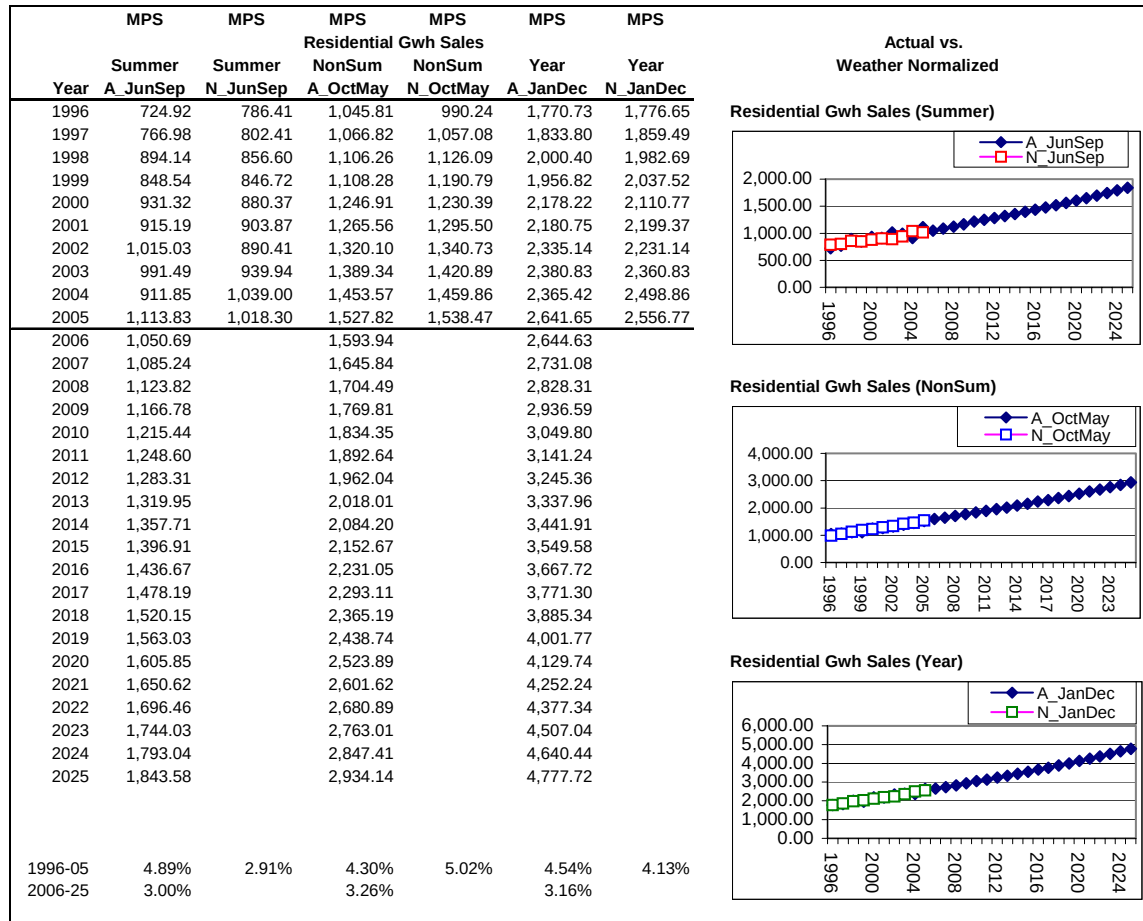
Plot D-20: MPS Total MWh Use Per Customer
(Actual vs. Weather Normalized)



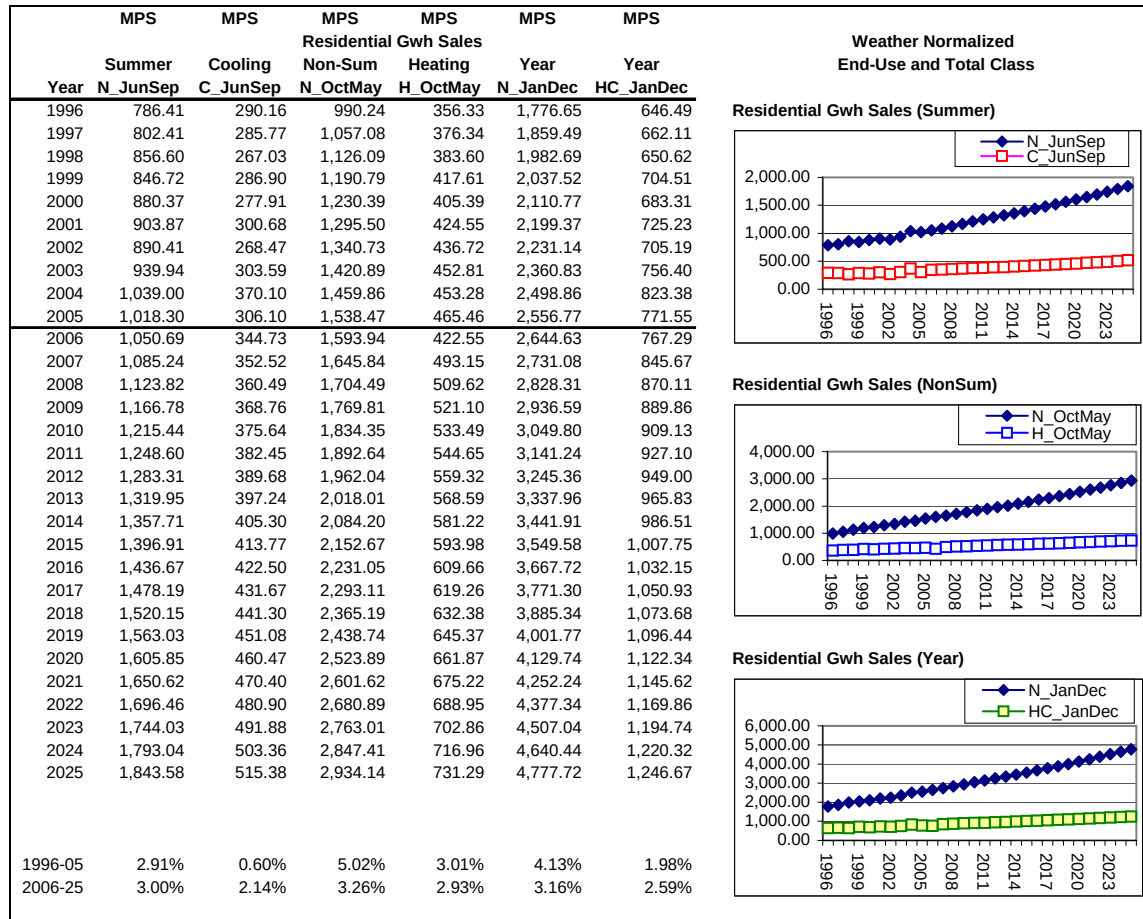
Plot D-21: MPS Total MWH Use Per Customer by End-Use



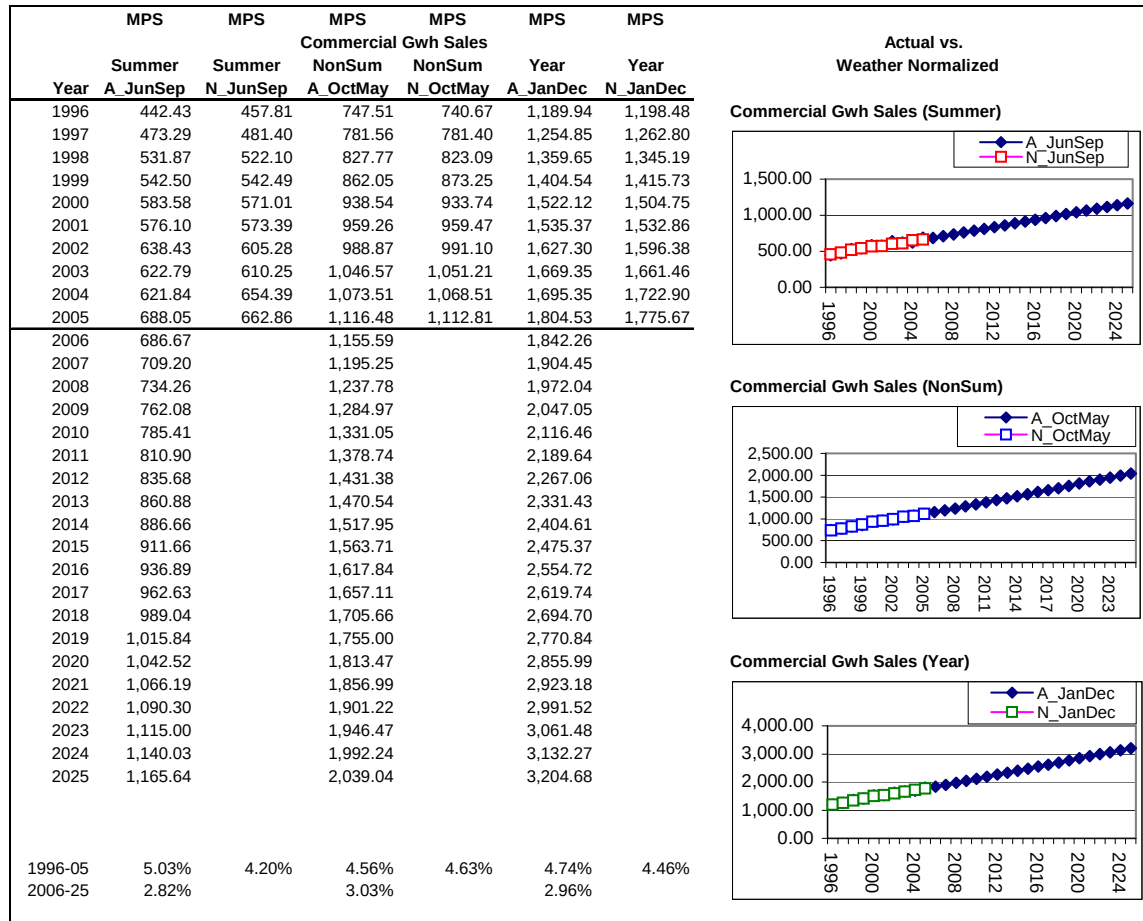
Plot D-22: MPS Residential GWH Sales
(Actual vs. Weather Normalized)



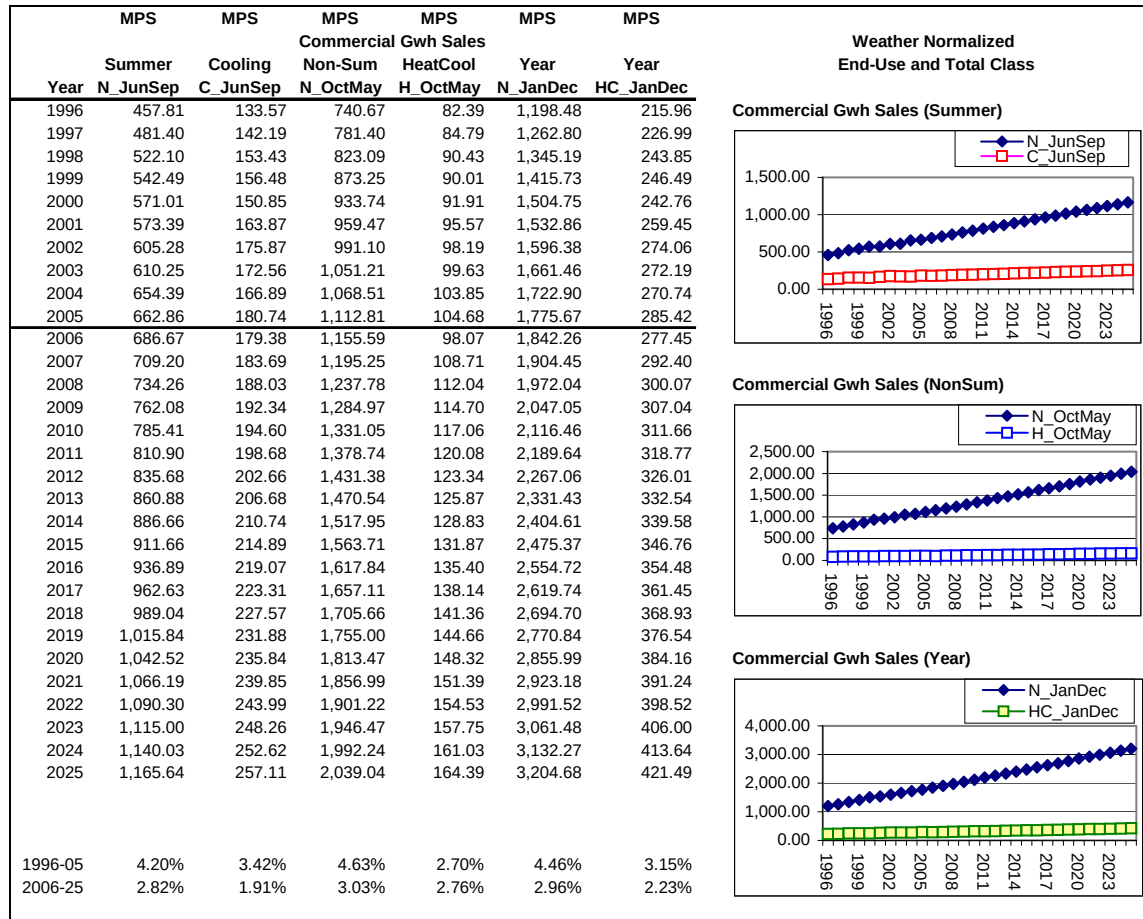
Plot D-23: MPS Residential GWh Sales by End-Use



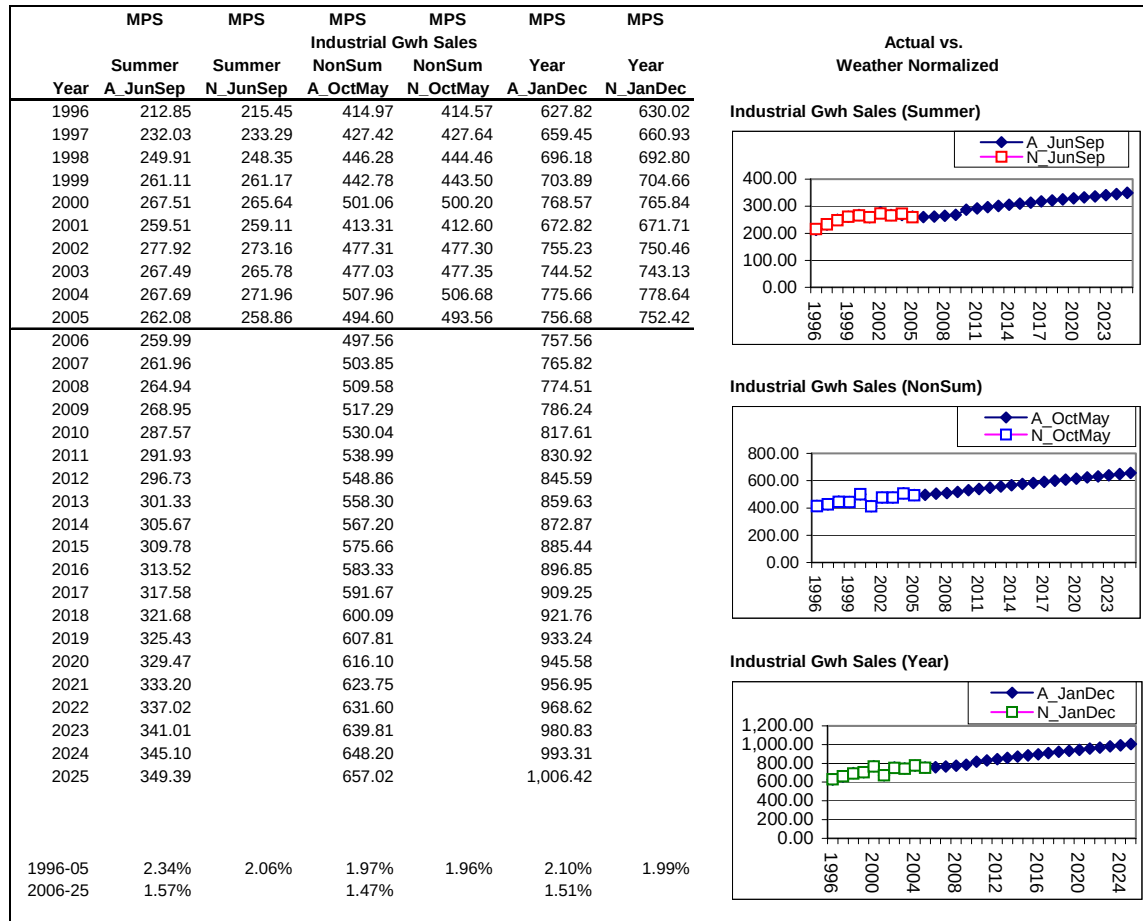
Plot D-24: MPS Commercial GWH Sales
(Actual vs. Weather Normalized)



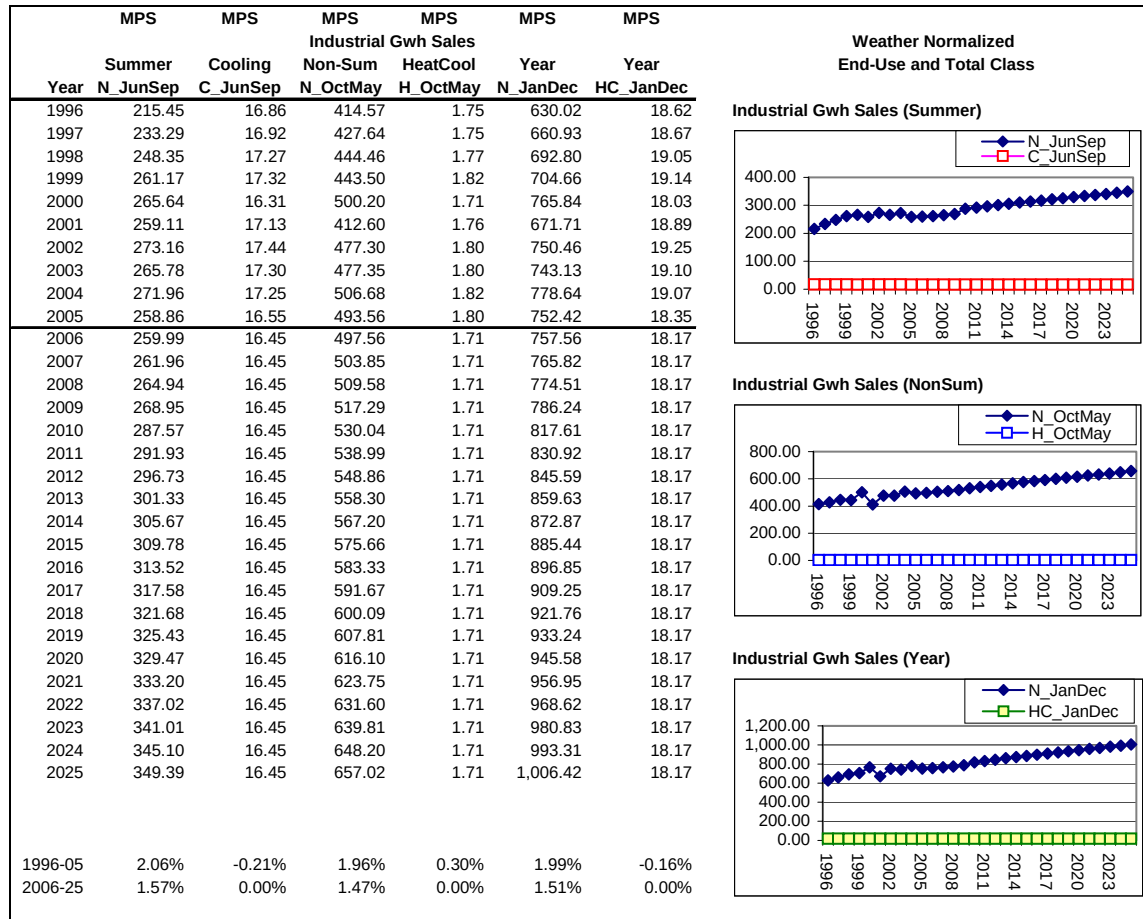
Plot D-25: MPS Commercial GWH Sales by End-Use



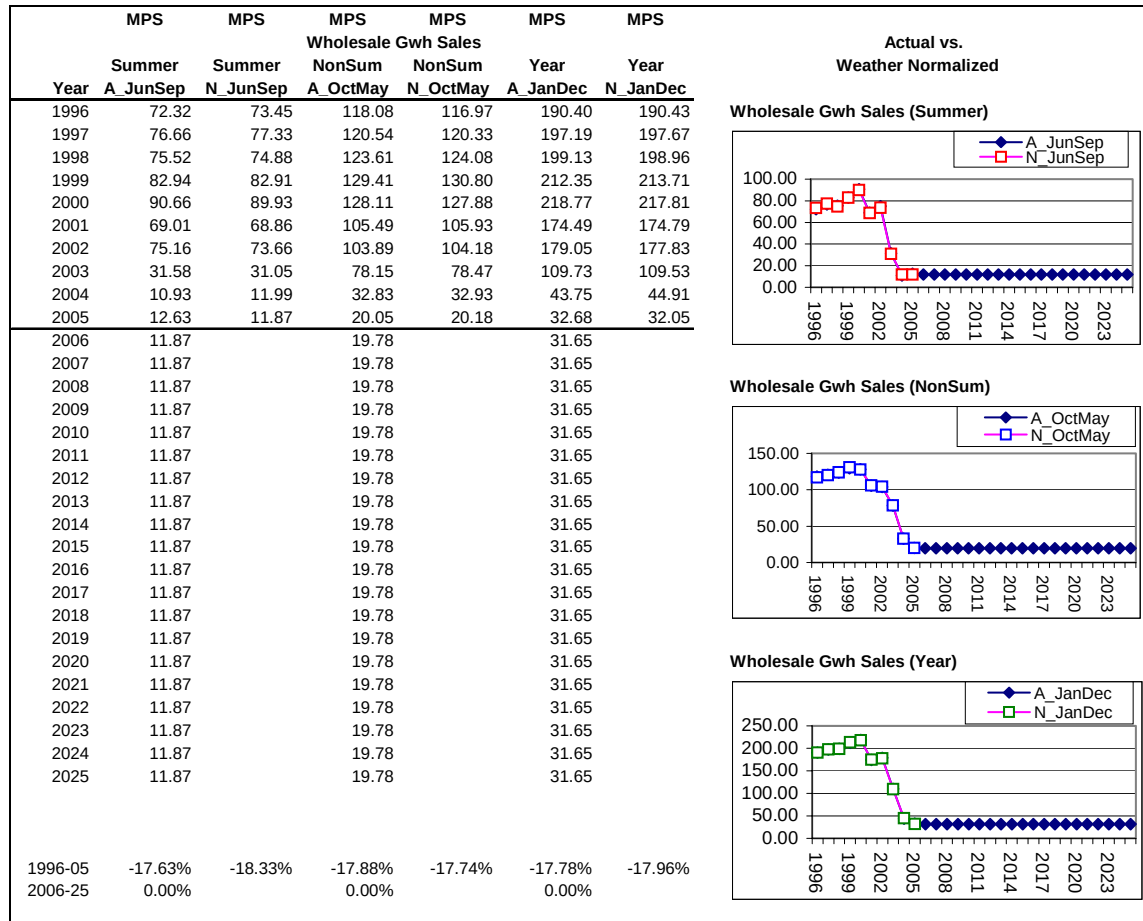
Plot D-26: MPS Industrial GWH Sales
(Actual vs. Weather Normalized)



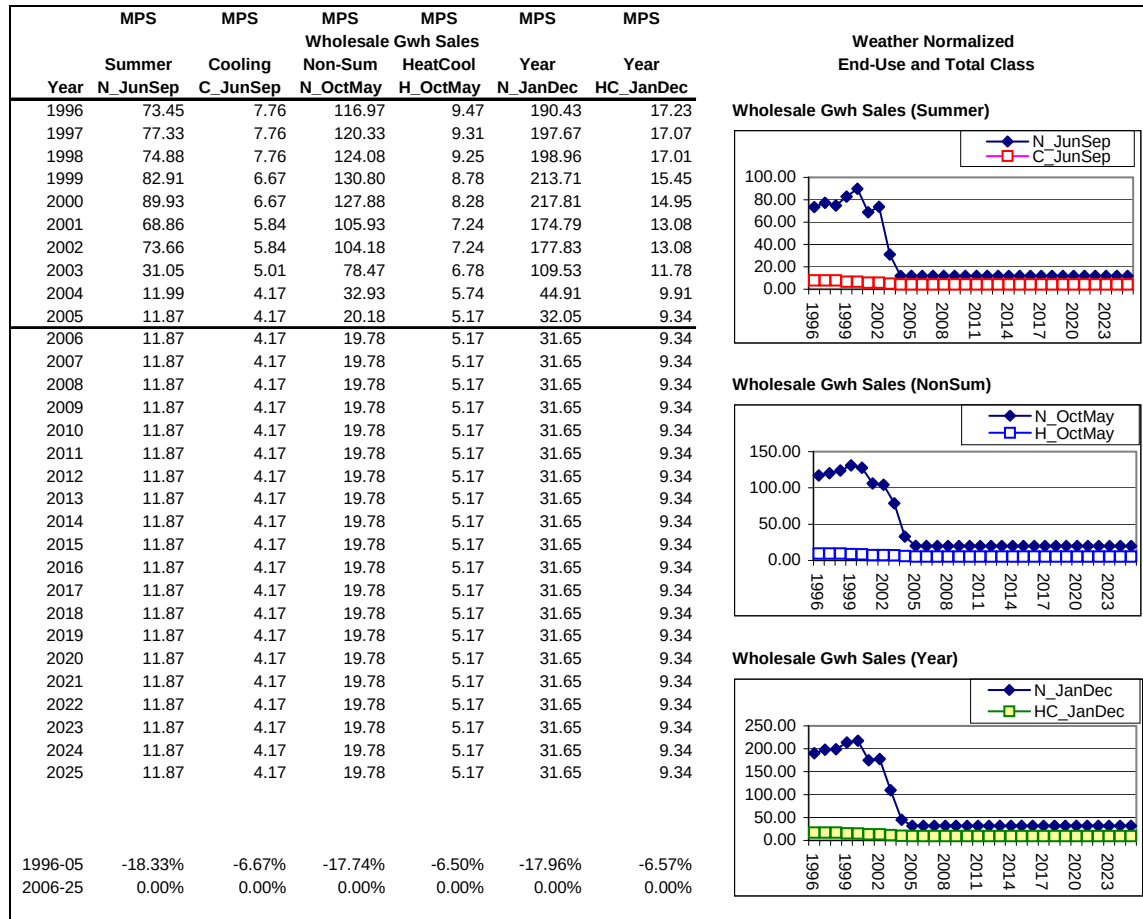
Plot D-27: MPS Industrial GWh Sales by End-Use



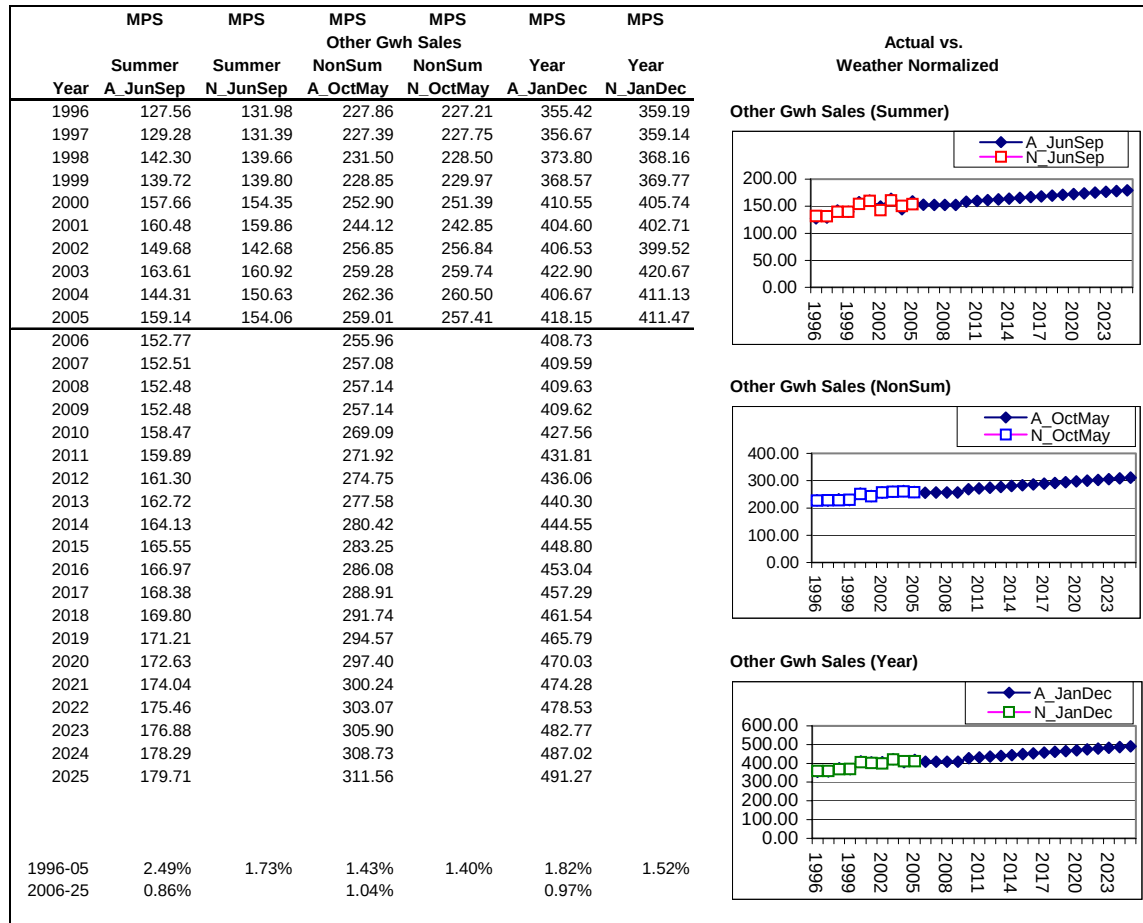
Plot D-28: MPS Wholesale GWH Sales
(Actual vs. Weather Normalized)



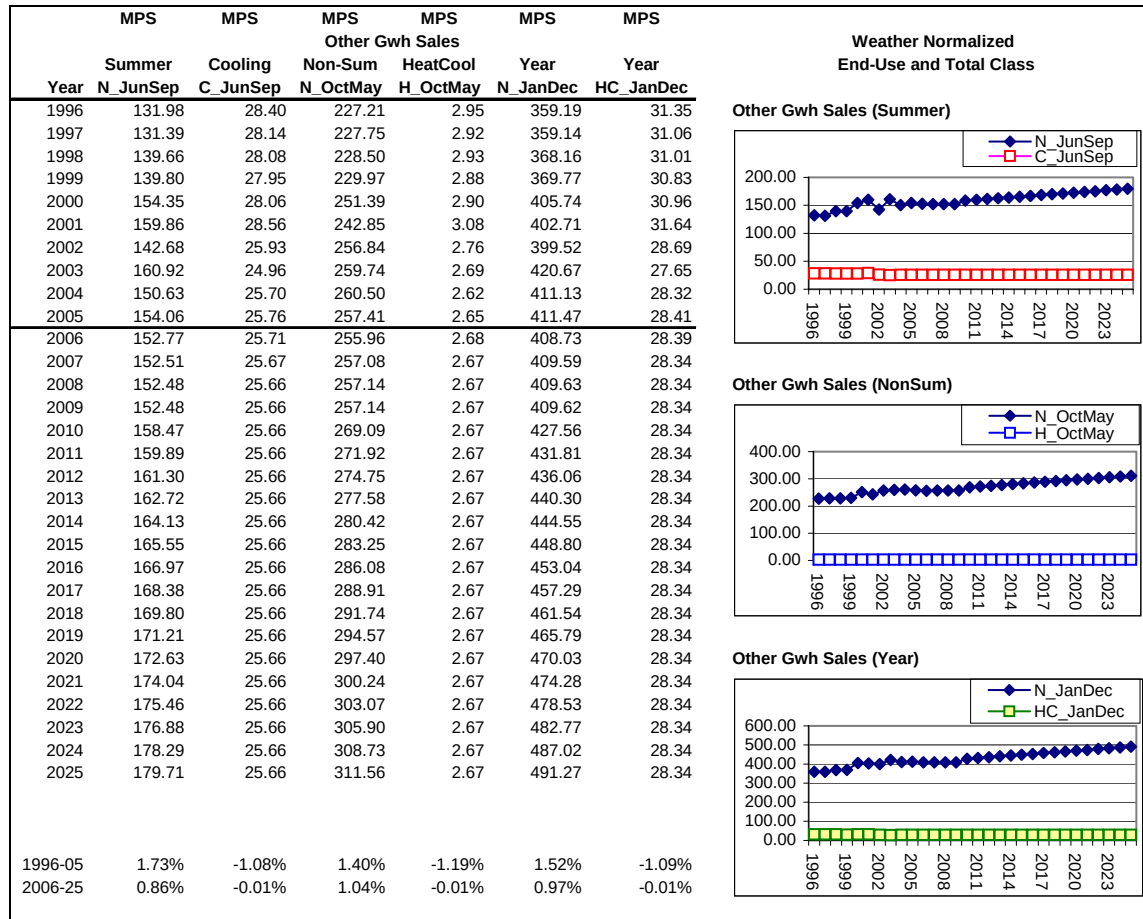
Plot D-29: MPS Wholesale GWh Sales by End-Use



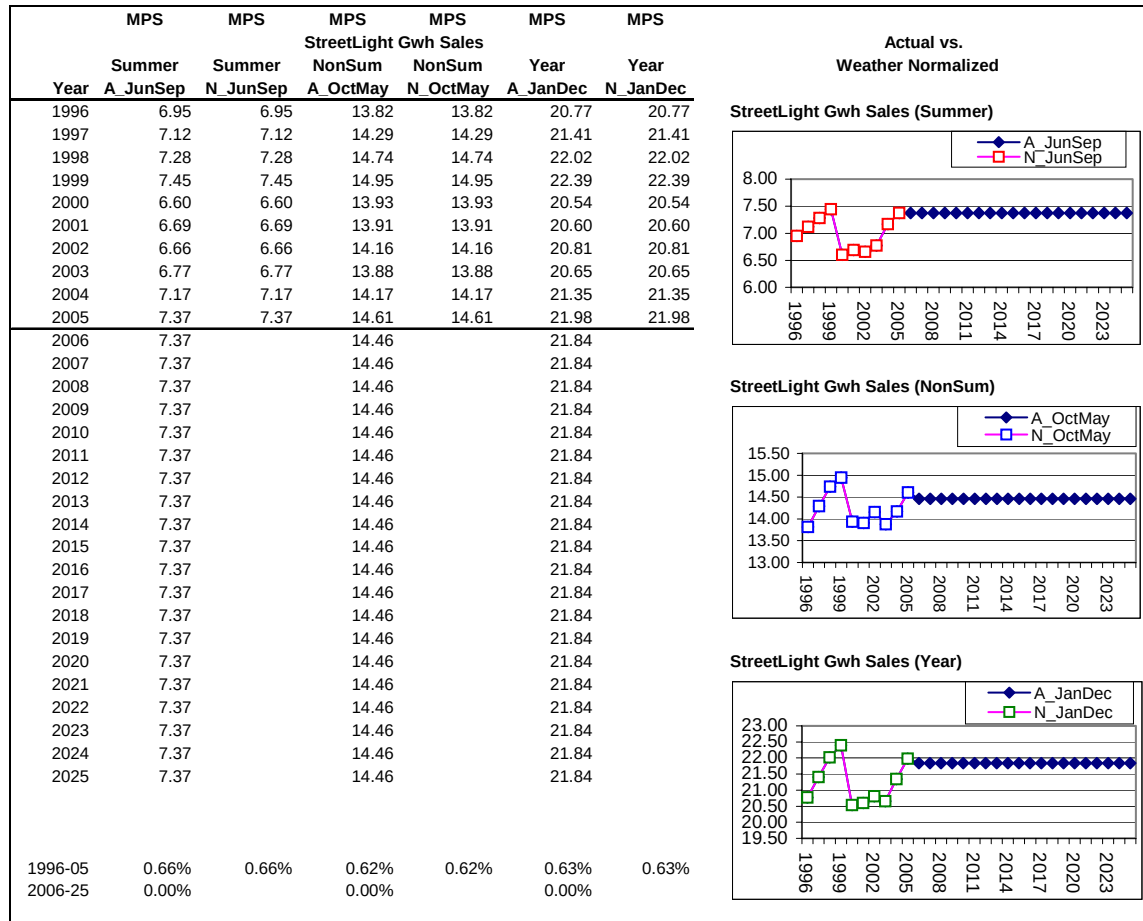
Plot D-30: MPS Other GWh Sales
(Actual vs. Weather Normalized)



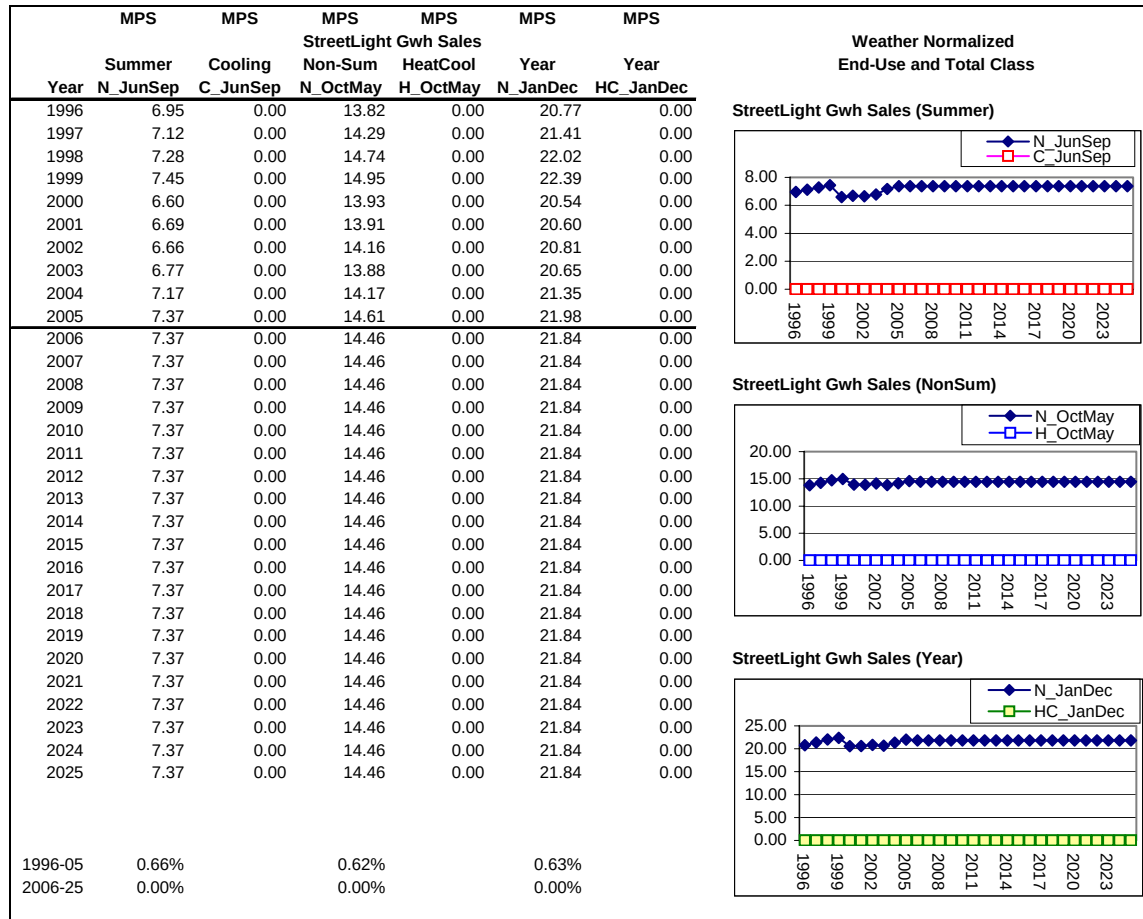
Plot D-31: MPS Other GWH Sales by End-Use



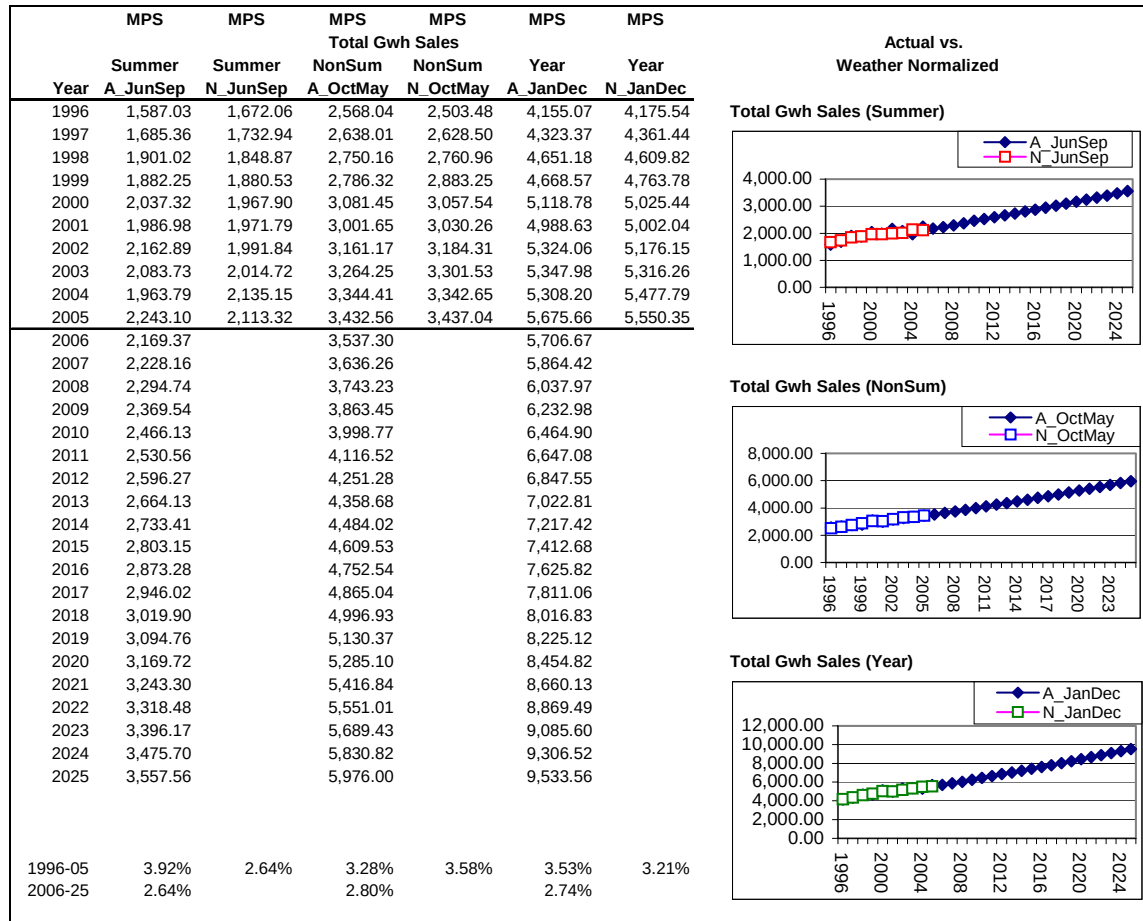
Plot D-32: MPS StreetLight GWh Sales
(Actual vs. Weather Normalized)



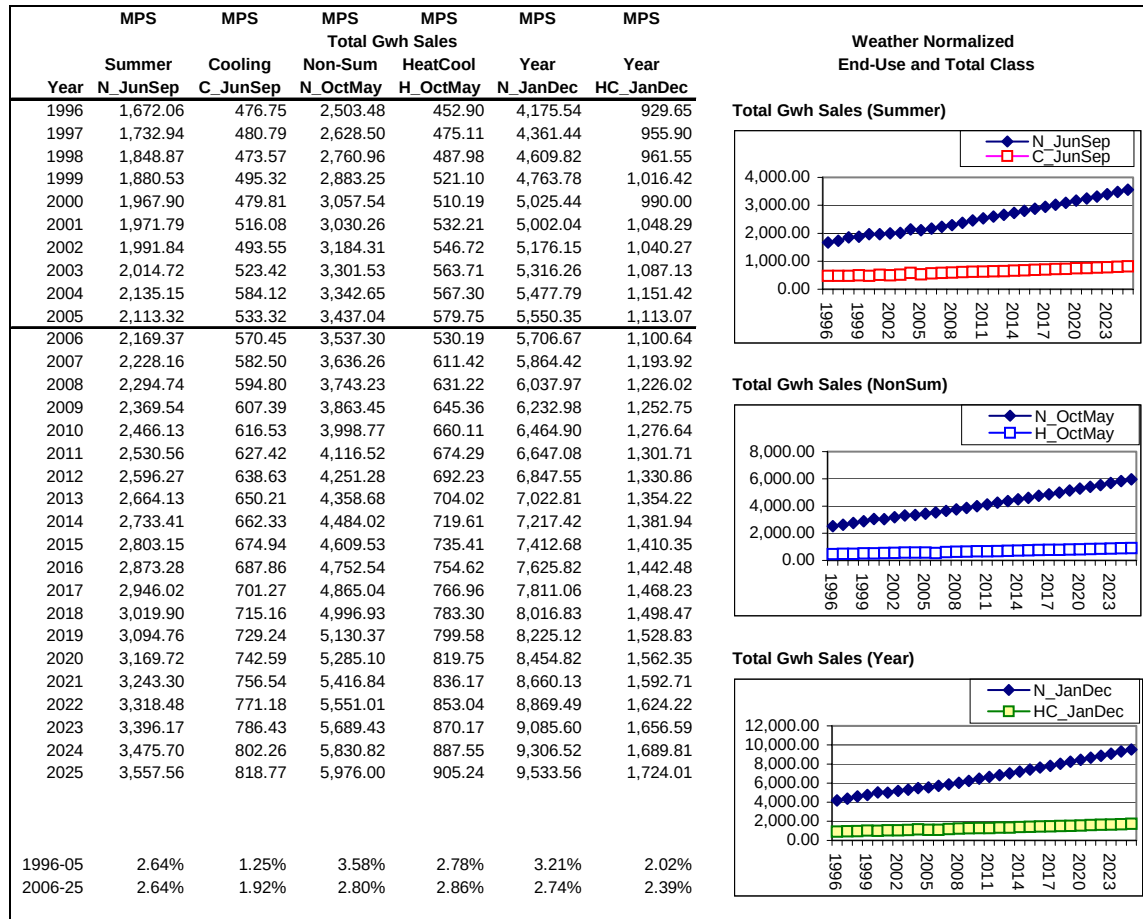
Plot D-33: MPS StreetLight GWh Sales by End-Use



Plot D-35: MPS Total GWh Sales
(Actual vs. Weather Normalized)



Plot D-35: MPS Total GWh Sales by End-Use



Missouri 4 CSR 240-22.030 (8) Reporting Requirements
Load Analysis and Forecasting

(8)(B) For each major class specified in subsection (1)(A) the utility shall provide plots of class demand per unit and class total demand at time of summer and winter system peak. The plots shall cover the historical data base period and the forecast period of at least twenty (20) years.

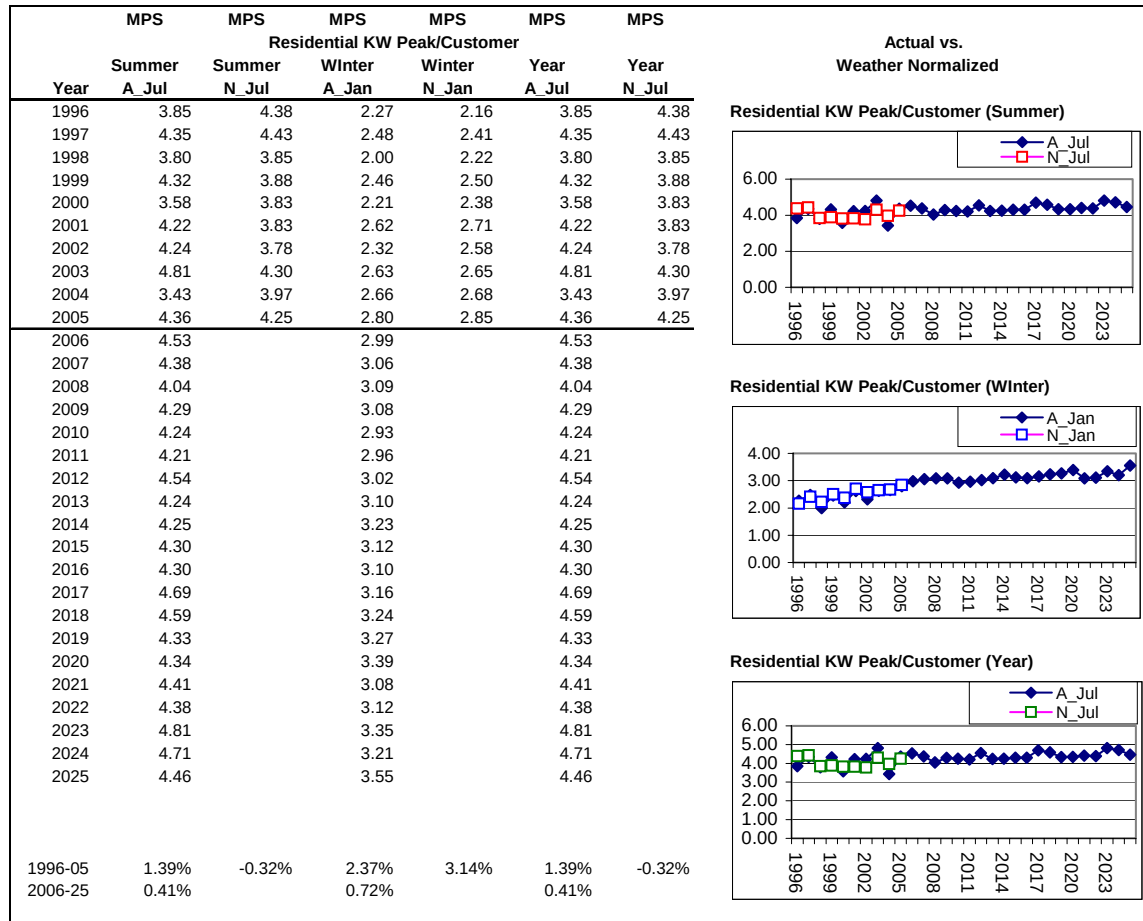
(8)(B)(1) The plots for the historical period shall include both actual and weather-normalized class demands per unit and total demands at the time of summer and winter system peak demands.

(8)(B)(2) The plots for the forecast period shall show each end-use component of major class coincident demands per unit and total class coincident demands for the base-case forecast.

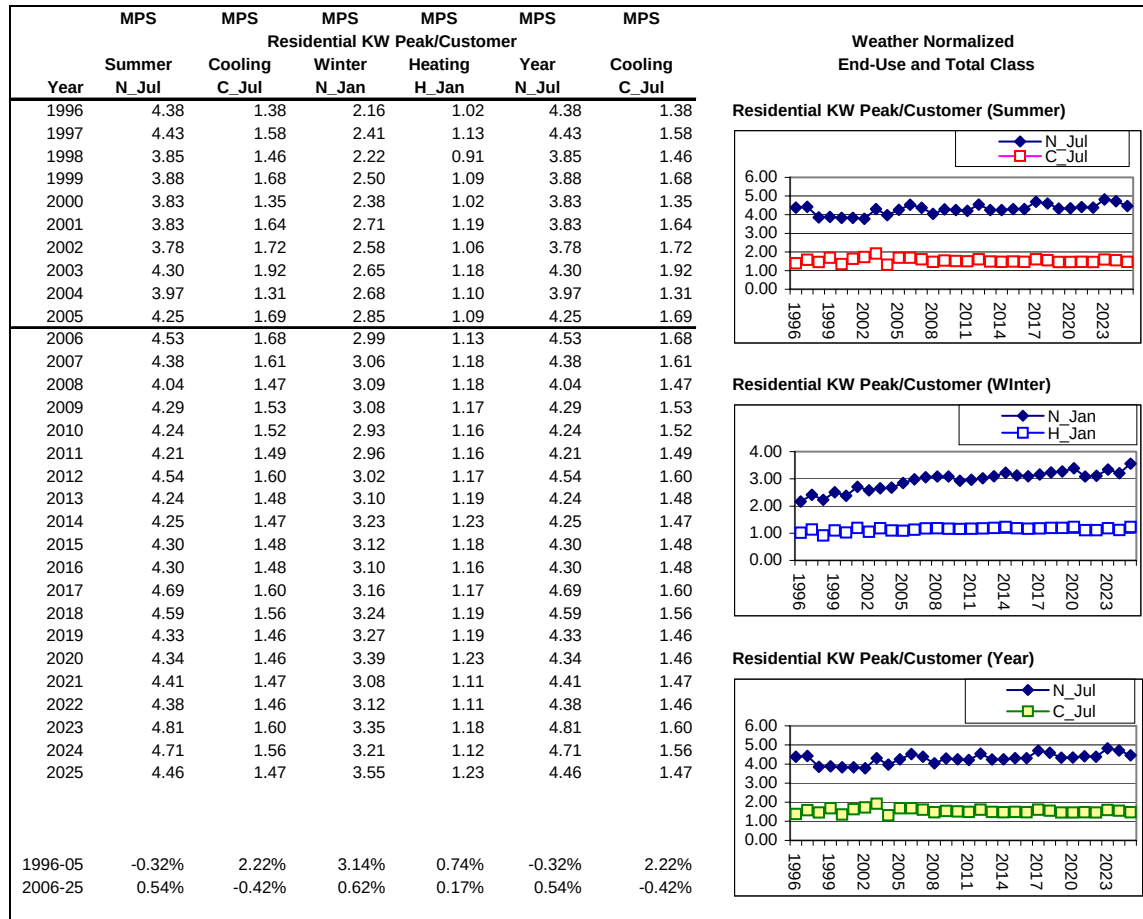
Compliance: See Plots D-36 through D-63 for base-case MPS forecast reports designed to comply with section (8)(B) reporting requirements.

Linked Files: Aquila Networks – Missouri Public Service (MPS)
8B_MPS_M2007F_Peaks_B.xls

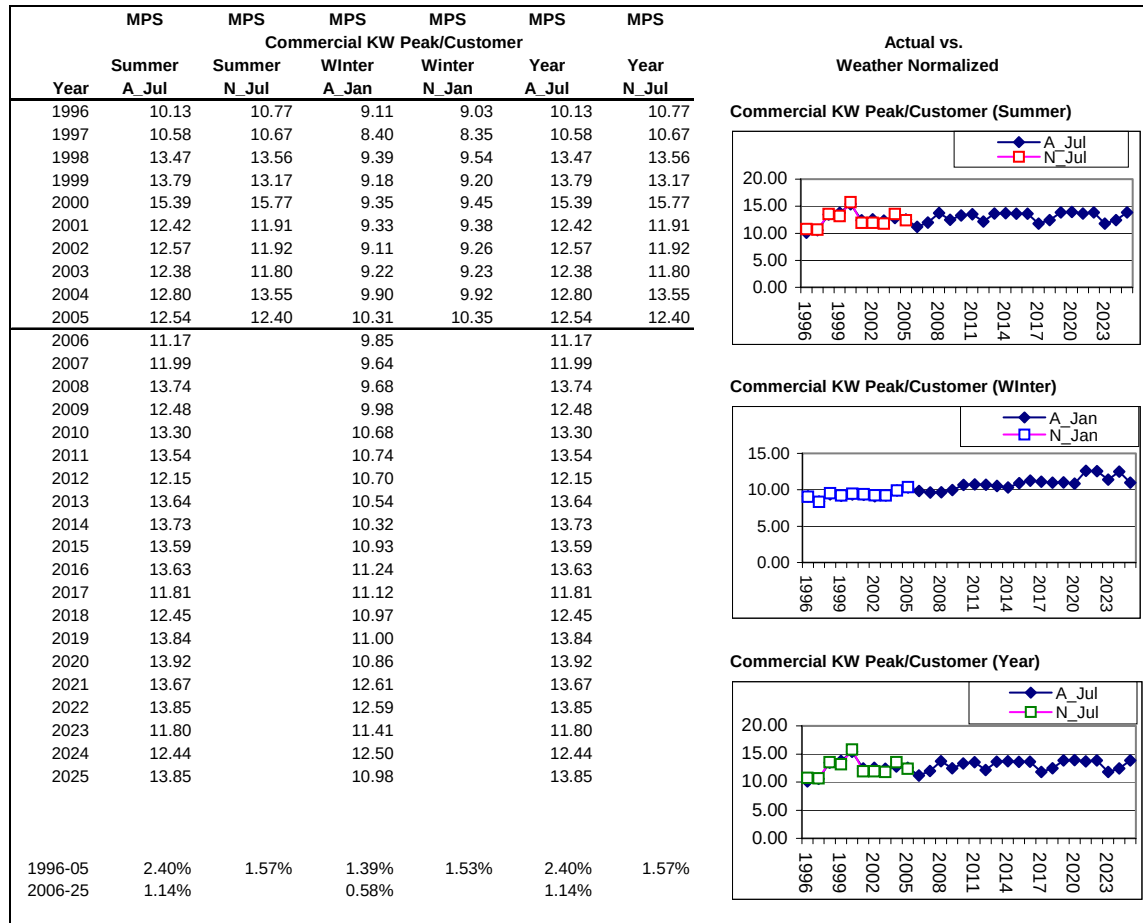
Plot D-36: MPS Residential KW Peak Demand per Customer
(Actual vs. Weather Normalized)



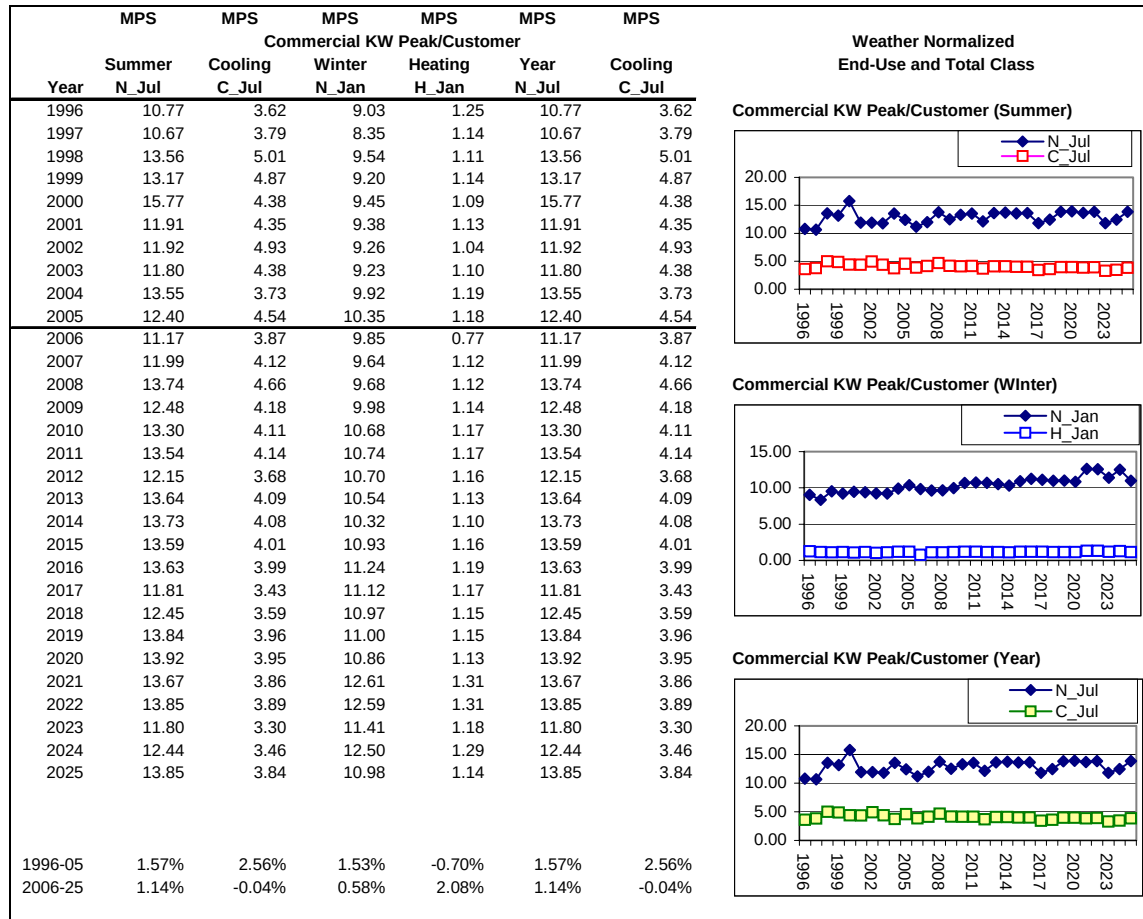
Plot D-37: MPS Residential KW Peak Demand per Customer by End Use



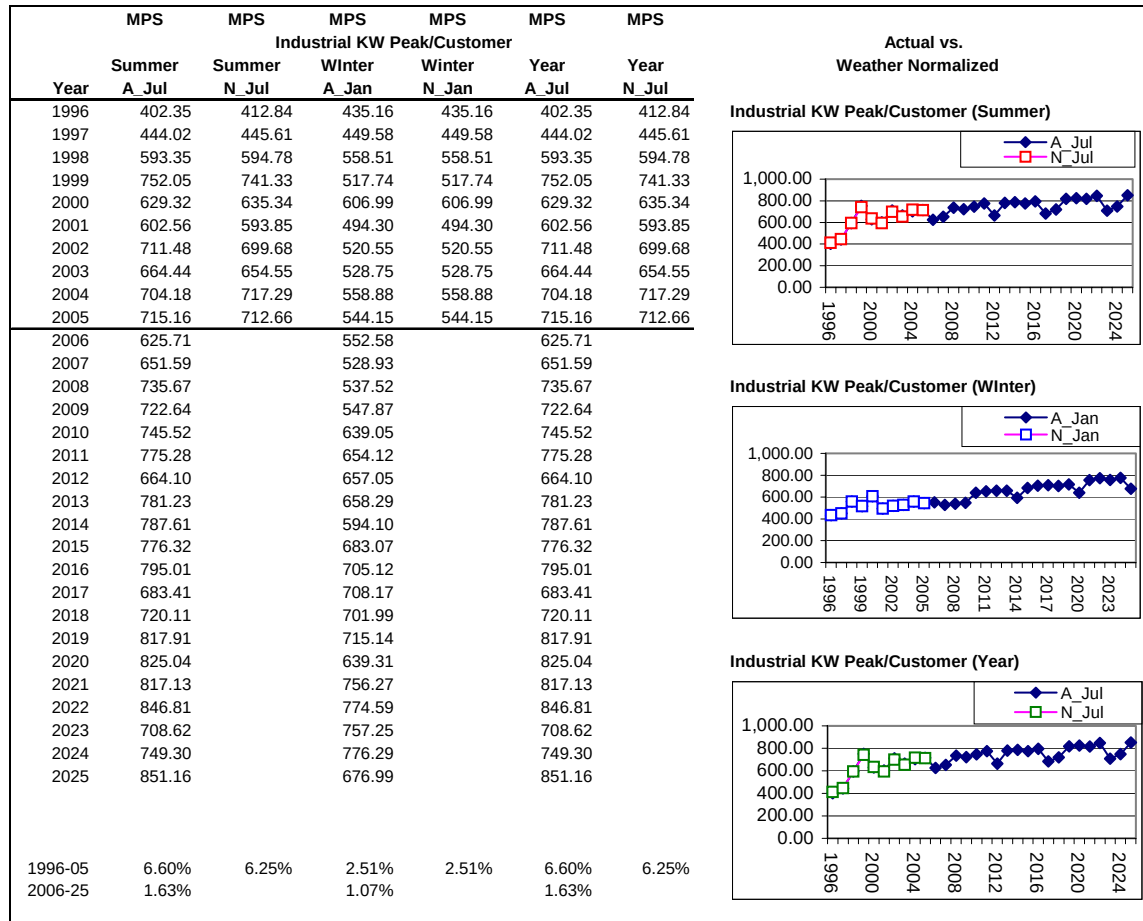
Plot D-38: MPS Commercial KW Peak Demand per Customer
(Actual vs. Weather Normalized)



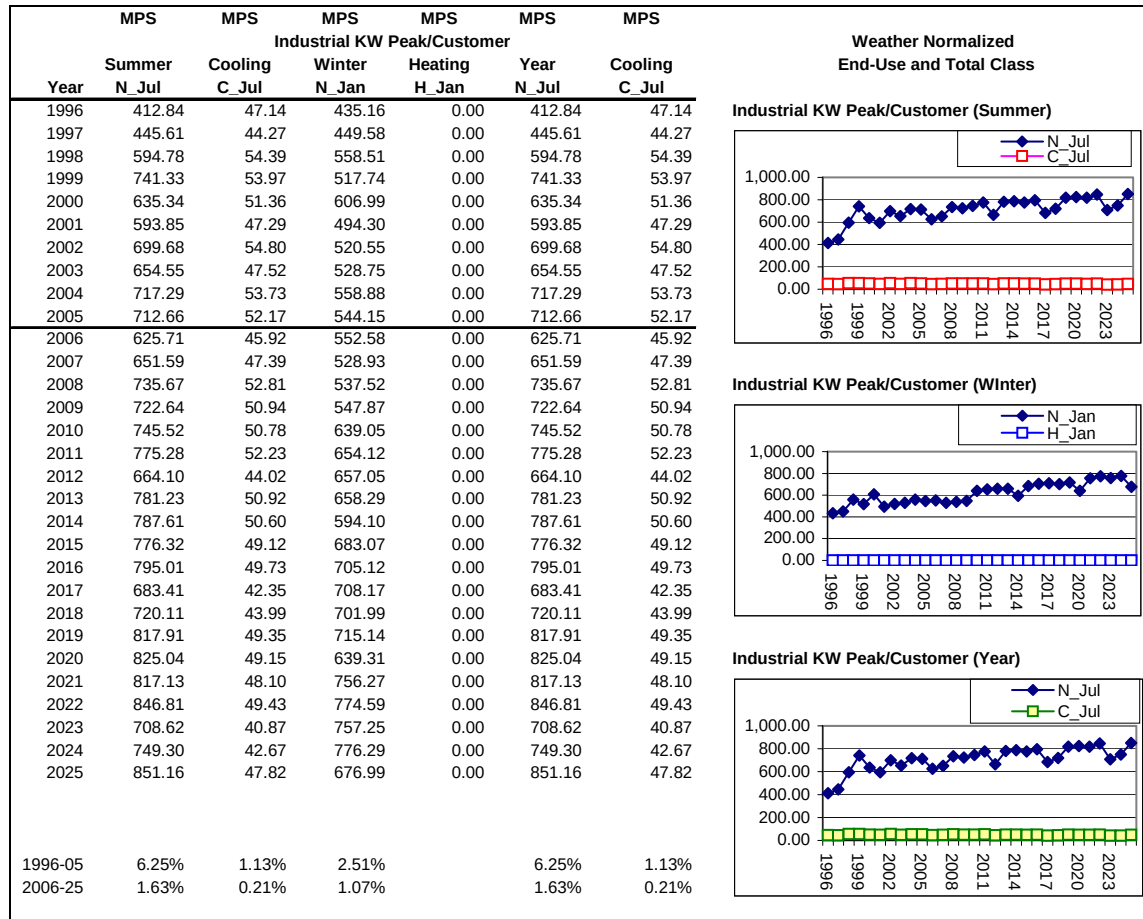
Plot D-39: MPS Commercial KW Peak Demand per Customer by End Use



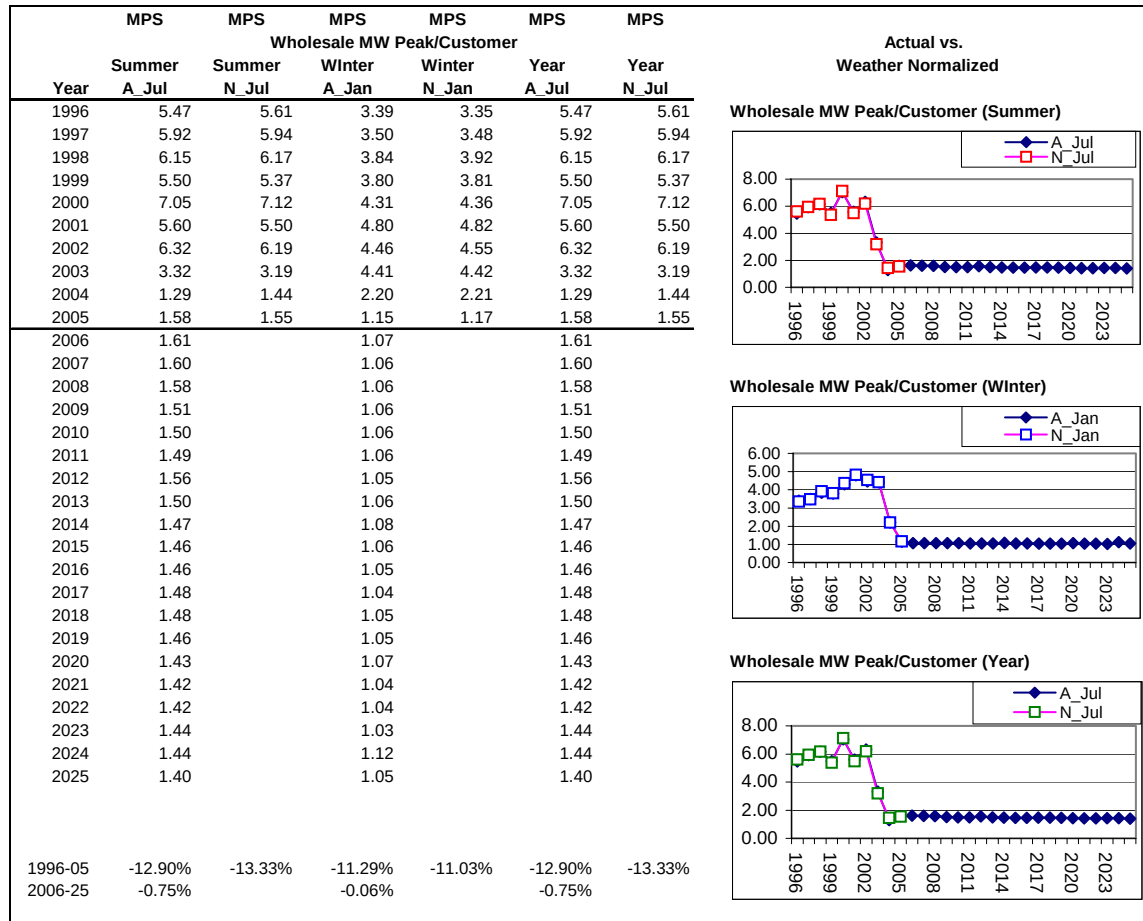
Plot D-40: MPS Industrial KW Peak Demand per Customer
(Actual vs. Weather Normalized)



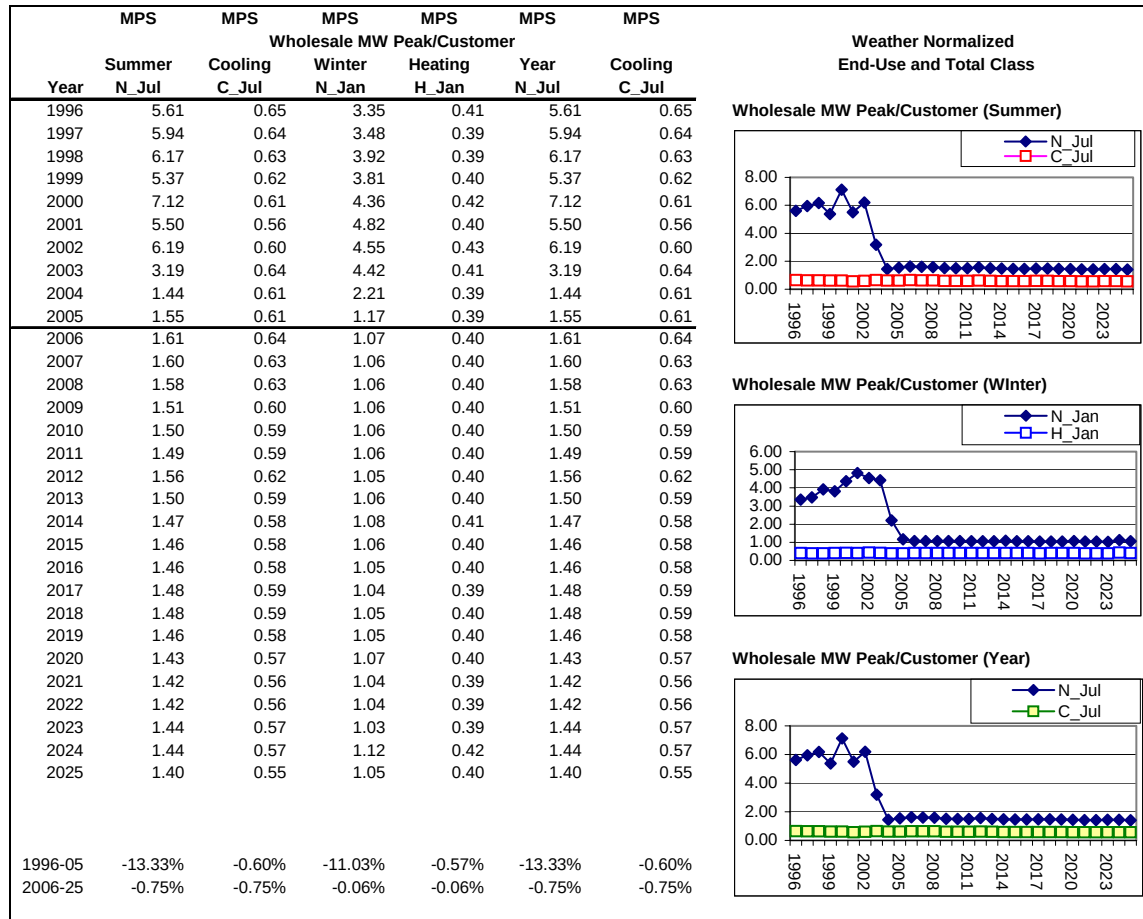
Plot D-41: MPS Industrial KW Peak Demand per Customer by End-Use



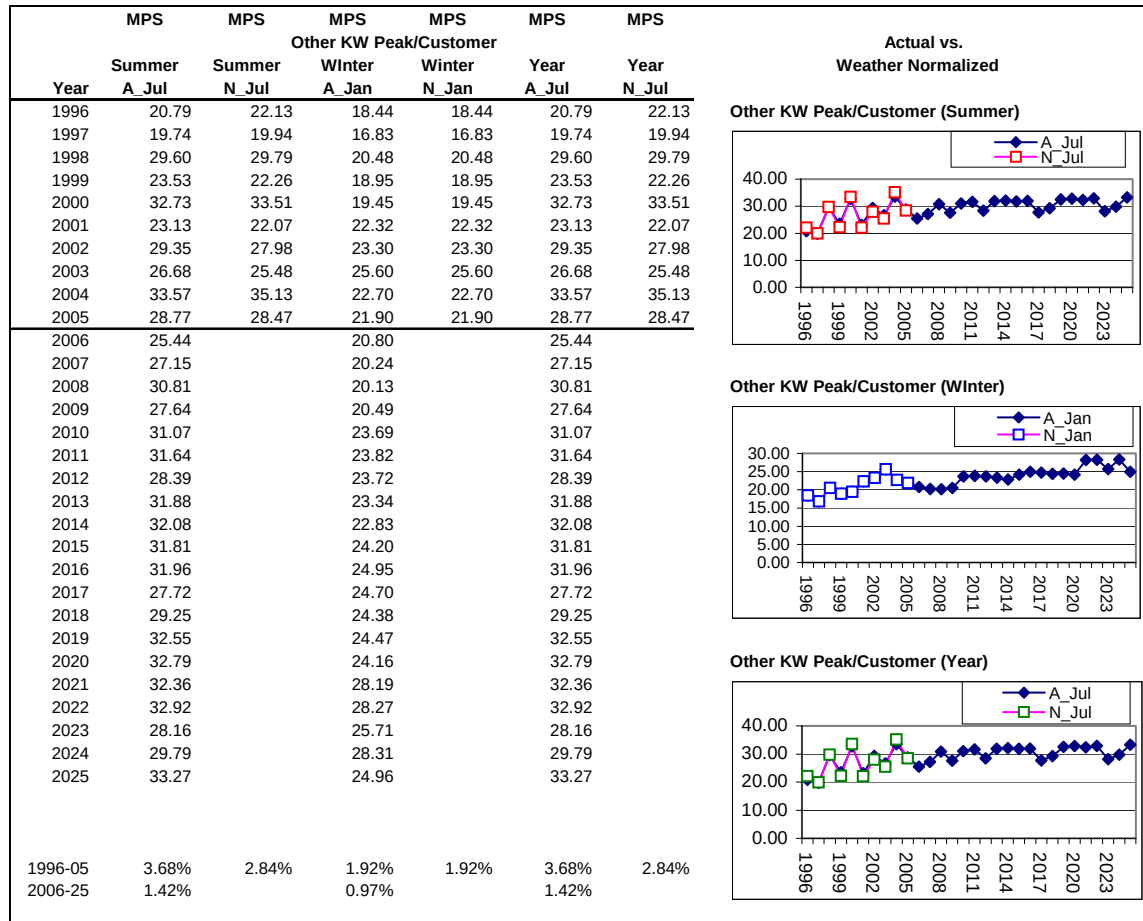
Plot D-42: MPS Wholesale KW Peak Demand per Customer
(Actual vs. Weather Normalized)



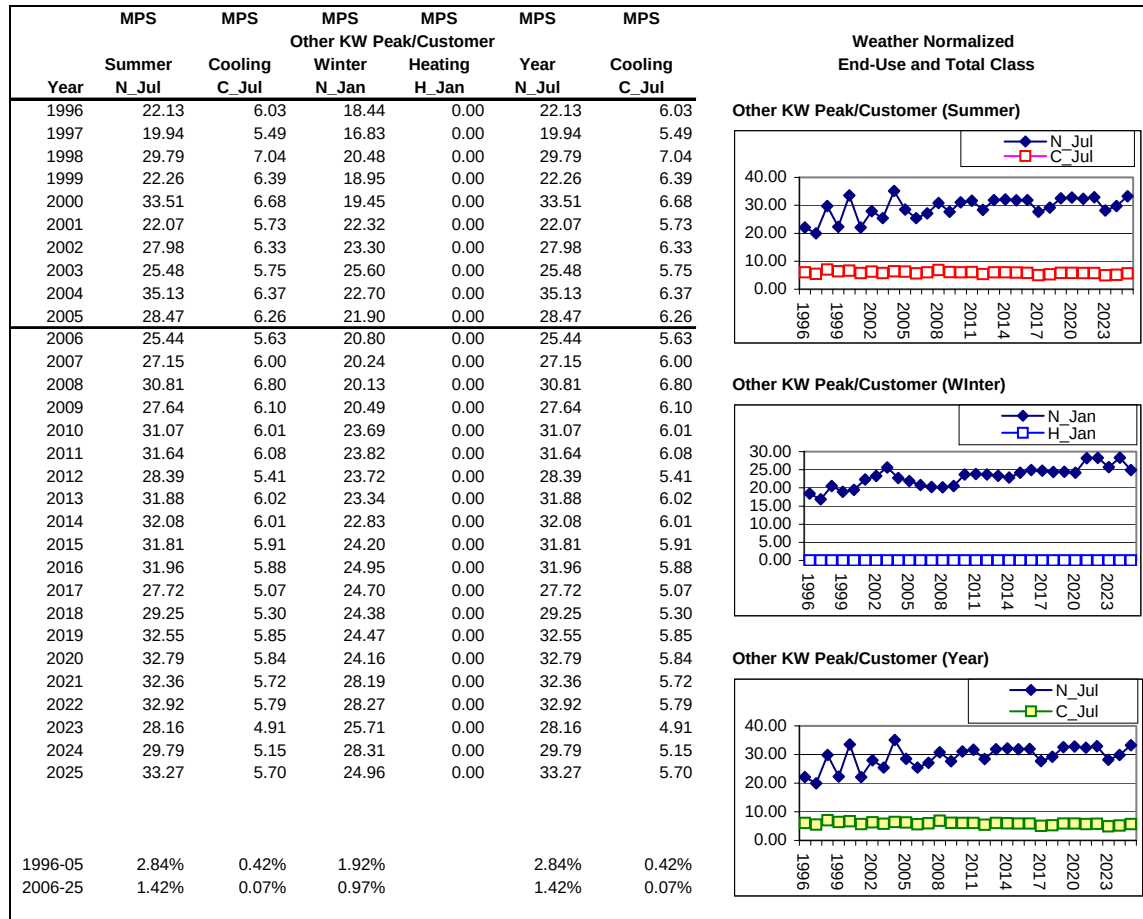
Plot D-43: MPS Wholesale KW Peak Demand per Customer by End-Use



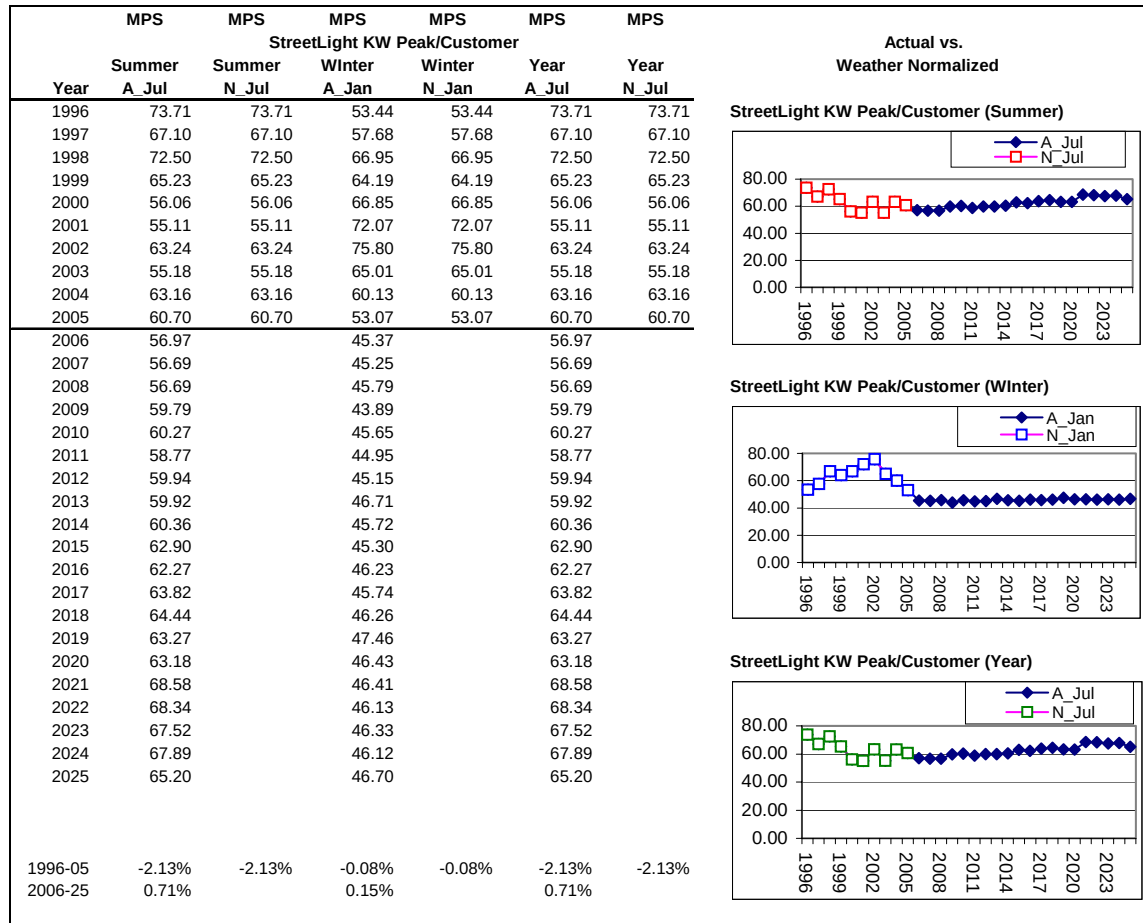
Plot D-44: MPS Other KW Peak Demand per Customer
(Actual vs. Weather Normalized)



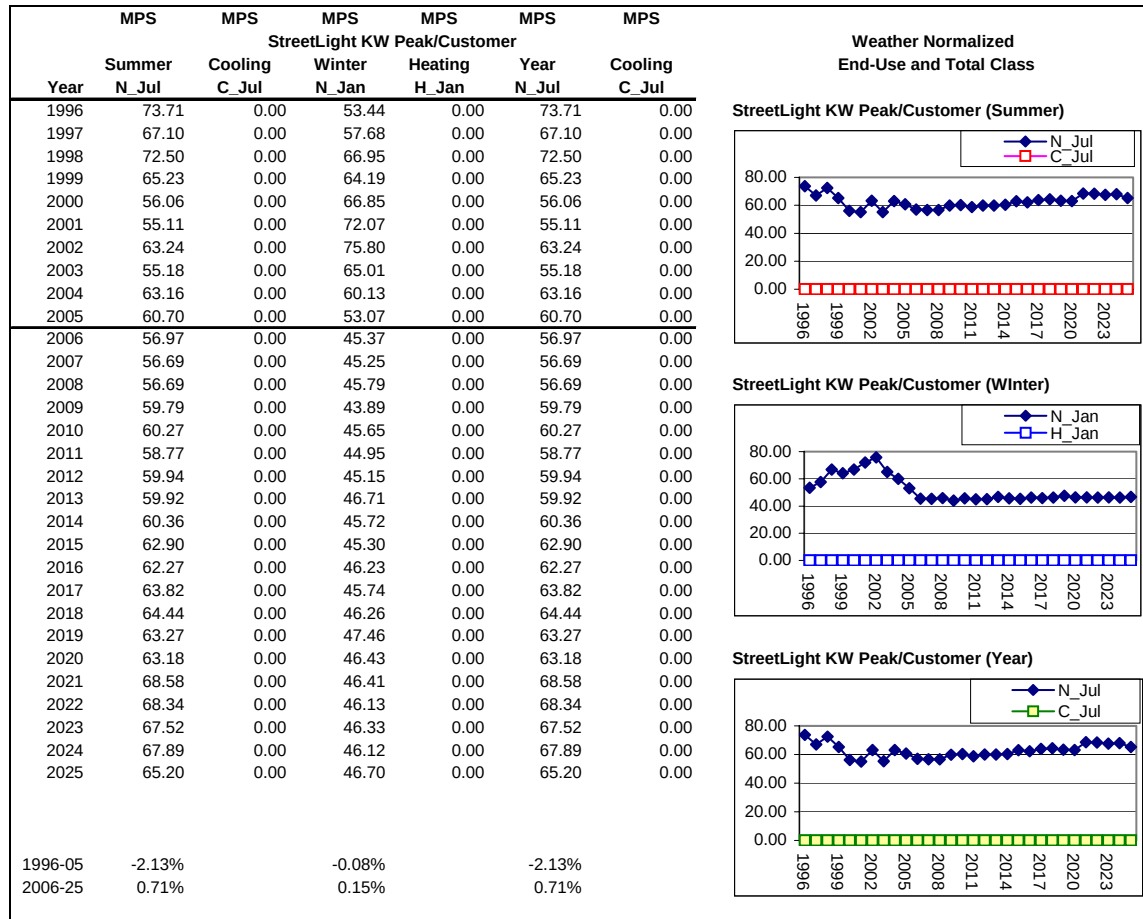
Plot D-45: MPS Other KW Peak Demand per Customer by End-Use



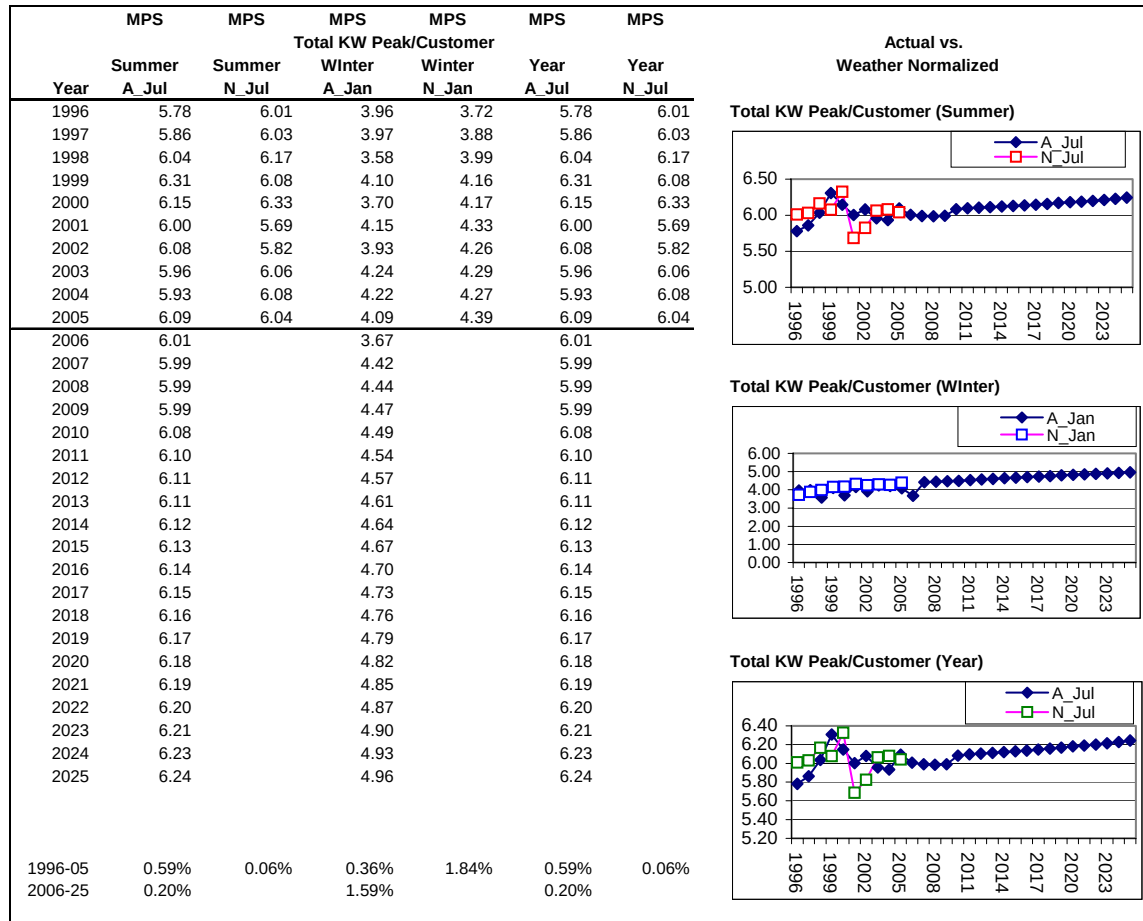
Plot D-46: MPS StreetLight KW Peak Demand per Customer
(Actual vs. Weather Normalized)



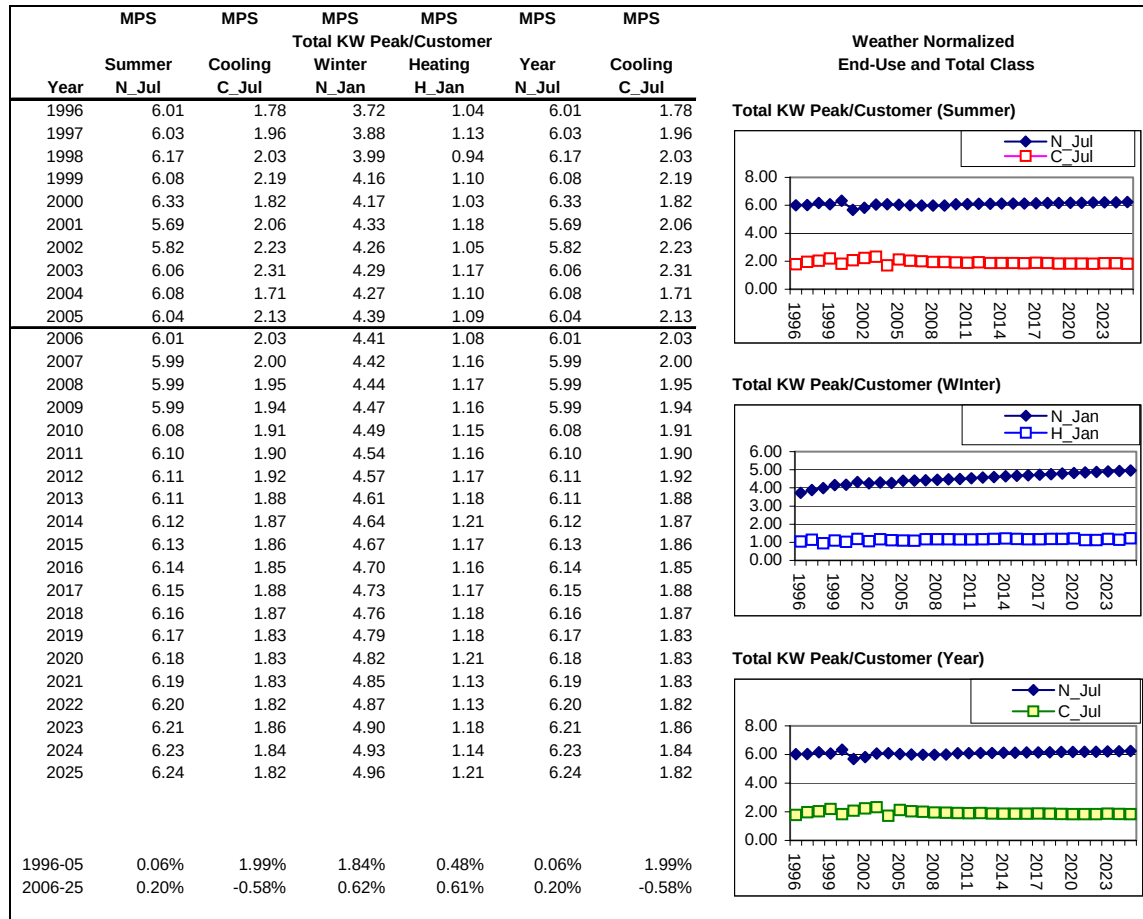
Plot D-47: MPS StreetLight KW Peak Demand per Customer by End-Use



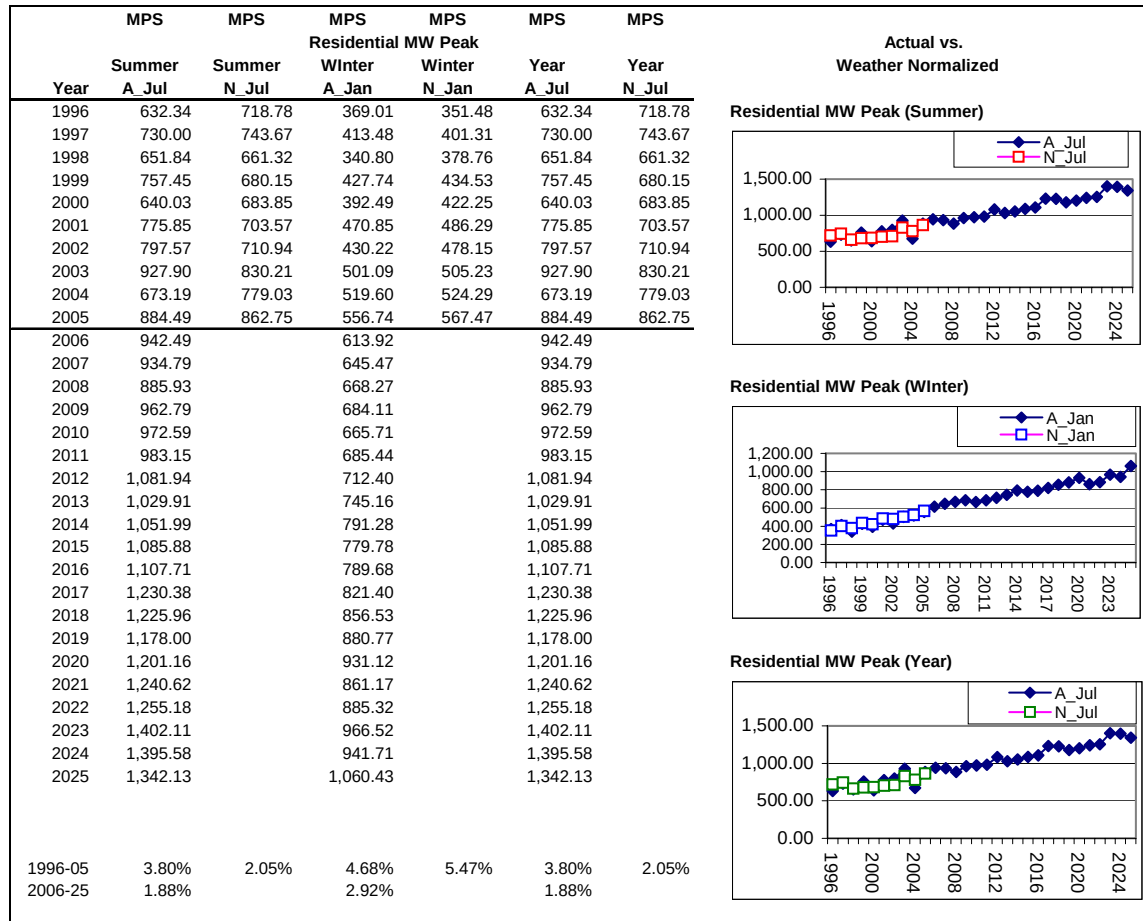
Plot D-48: MPS Total KW Peak Demand per Customer
(Actual vs. Weather Normalized)



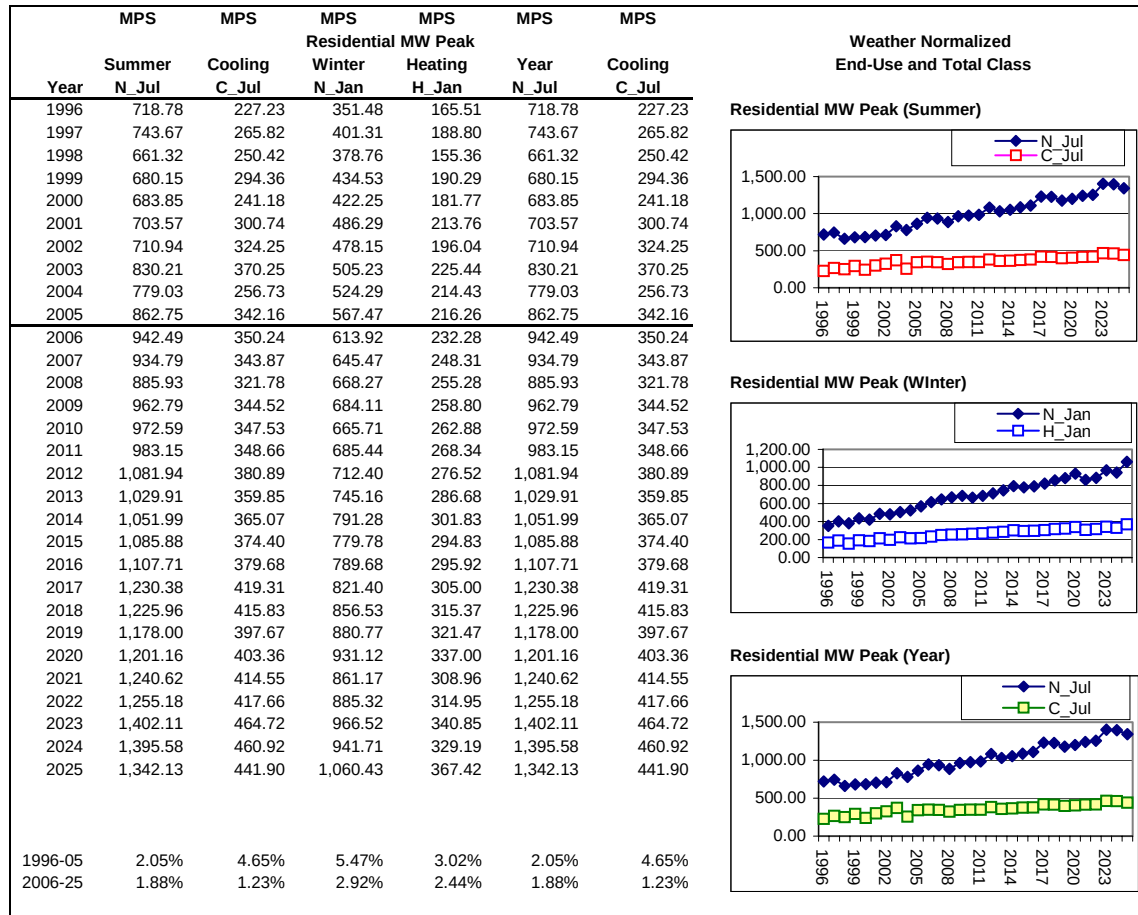
Plot D-49: MPS Total KW Peak Demand per Customer by End-Use



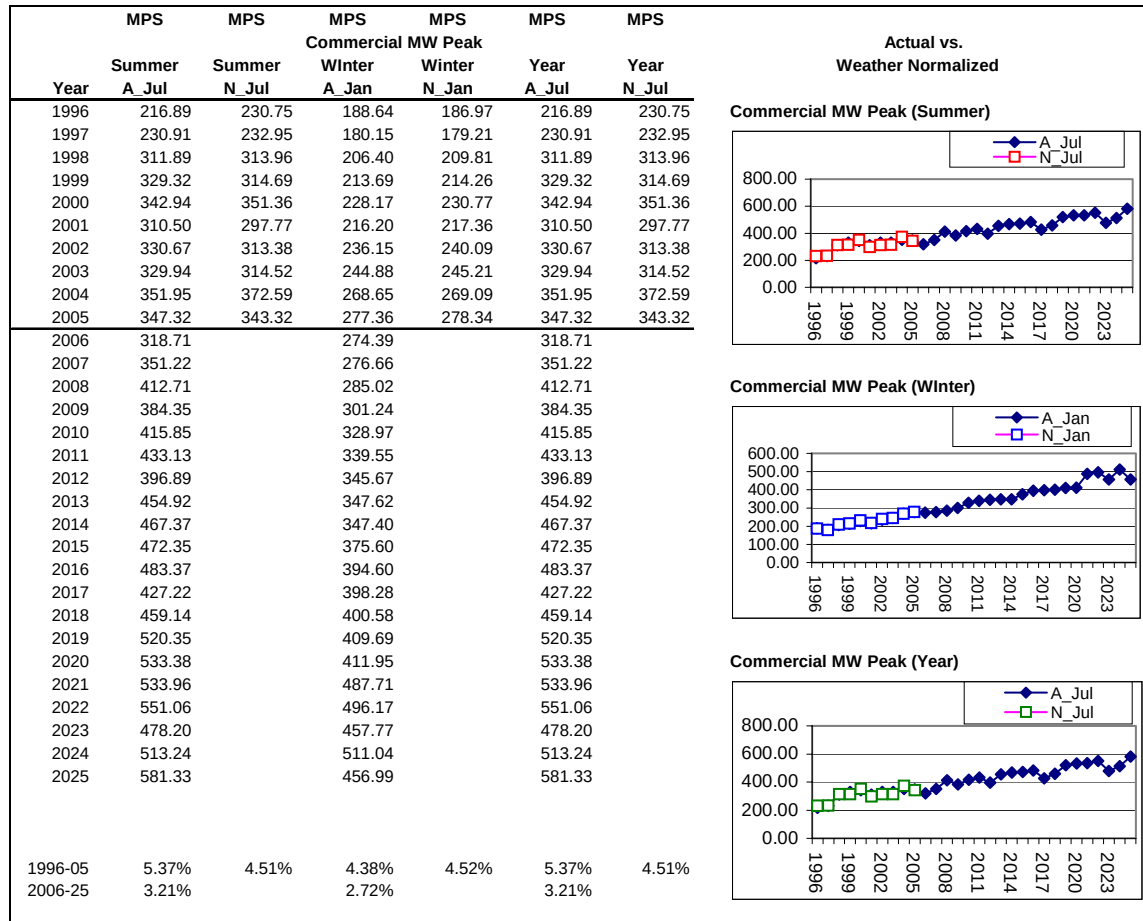
Plot D-50: MPS Residential MW Peak Demand
(Actual vs. Weather Normalized)



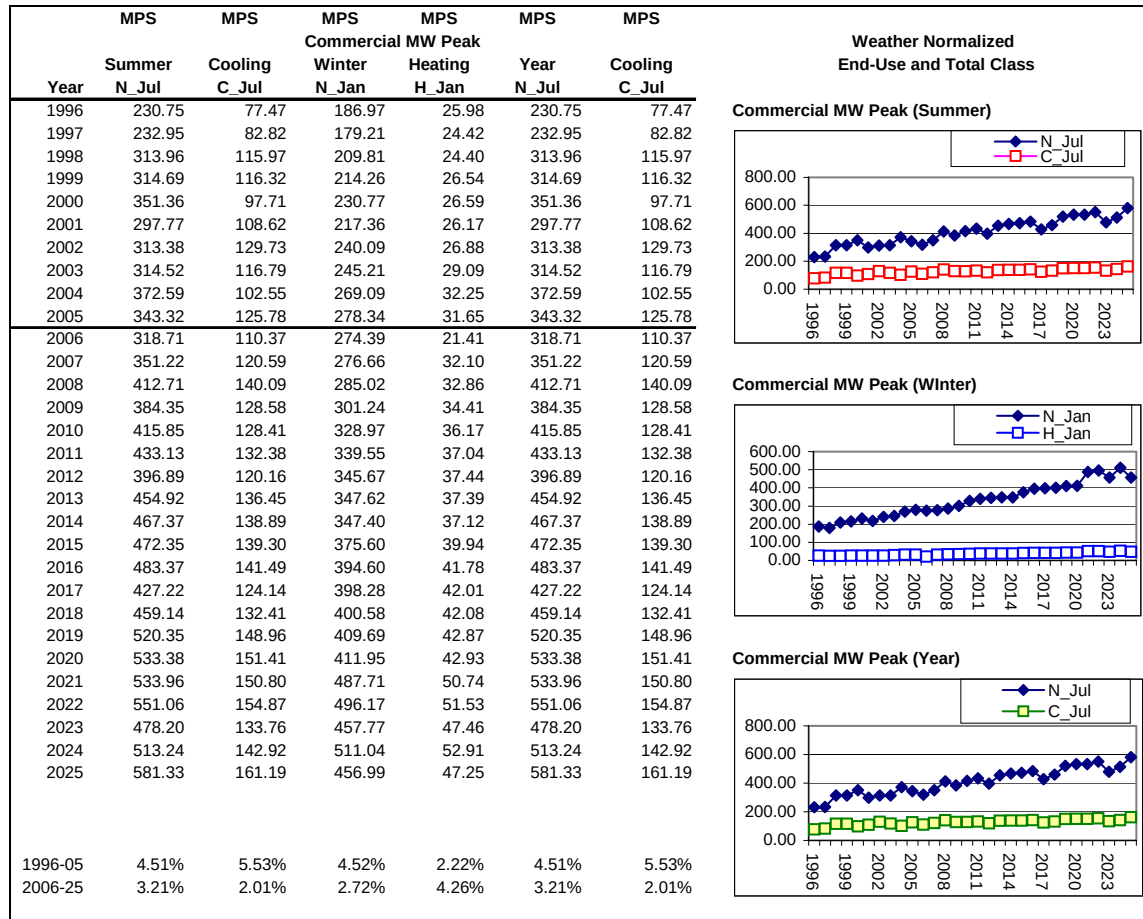
Plot D-51: MPS Residential MW Peak Demand by End-Use



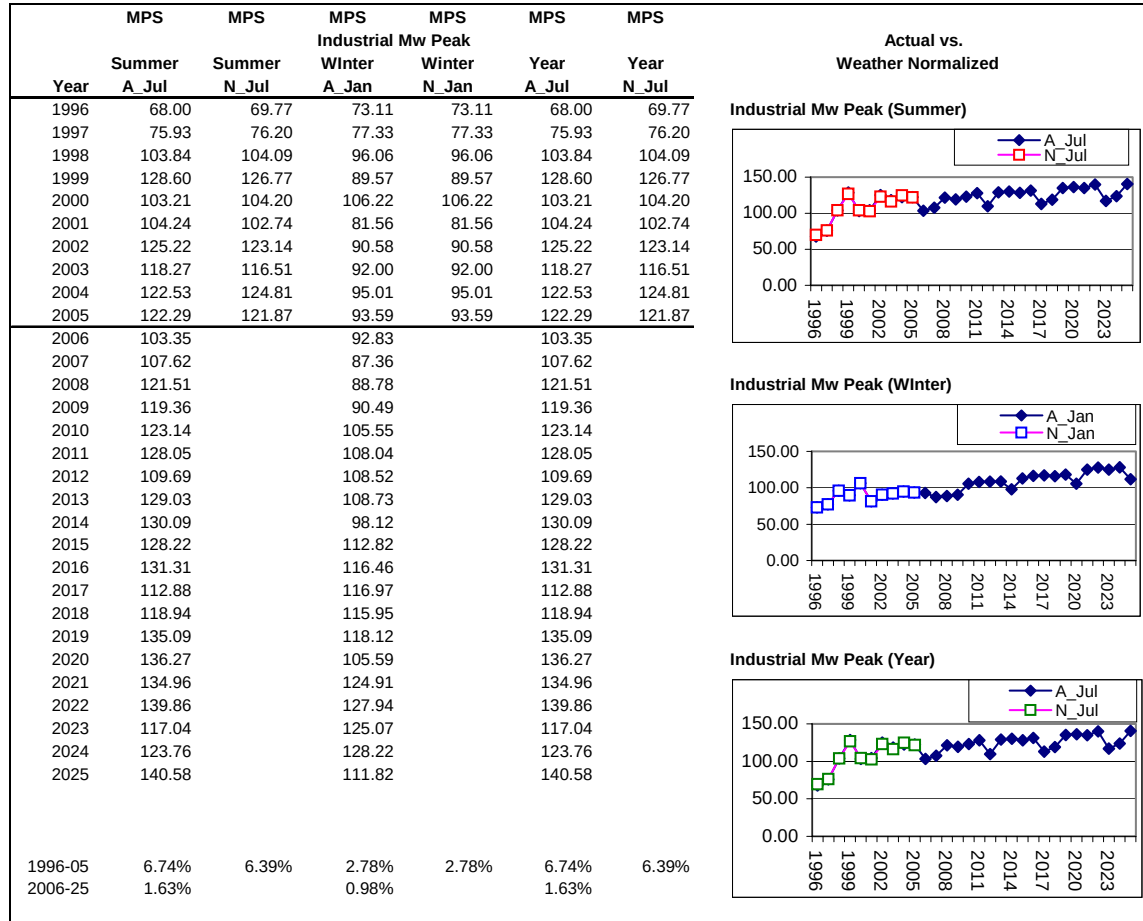
Plot D-52: MPS Commercial MW Peak Demand
(Actual vs. Weather Normalized)



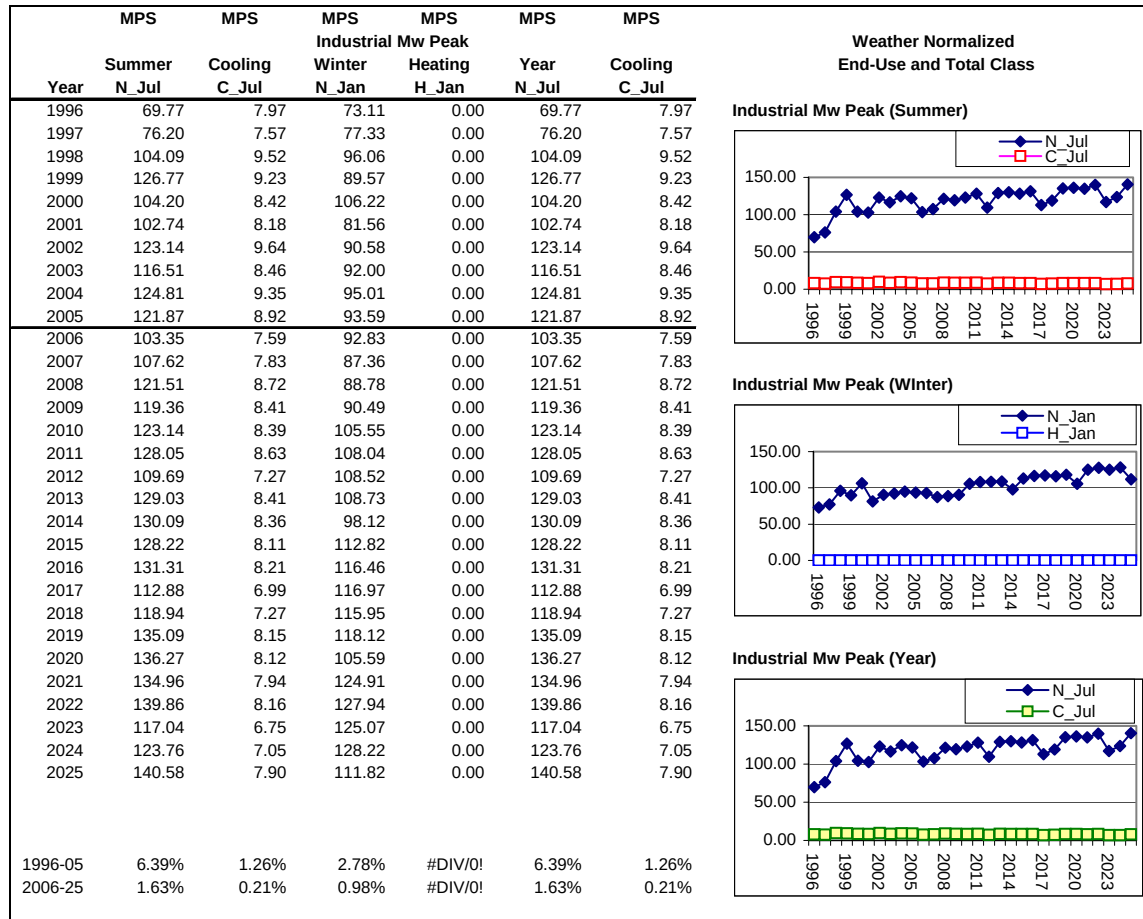
Plot D-53: MPS Commercial MW Peak Demand by End-Use



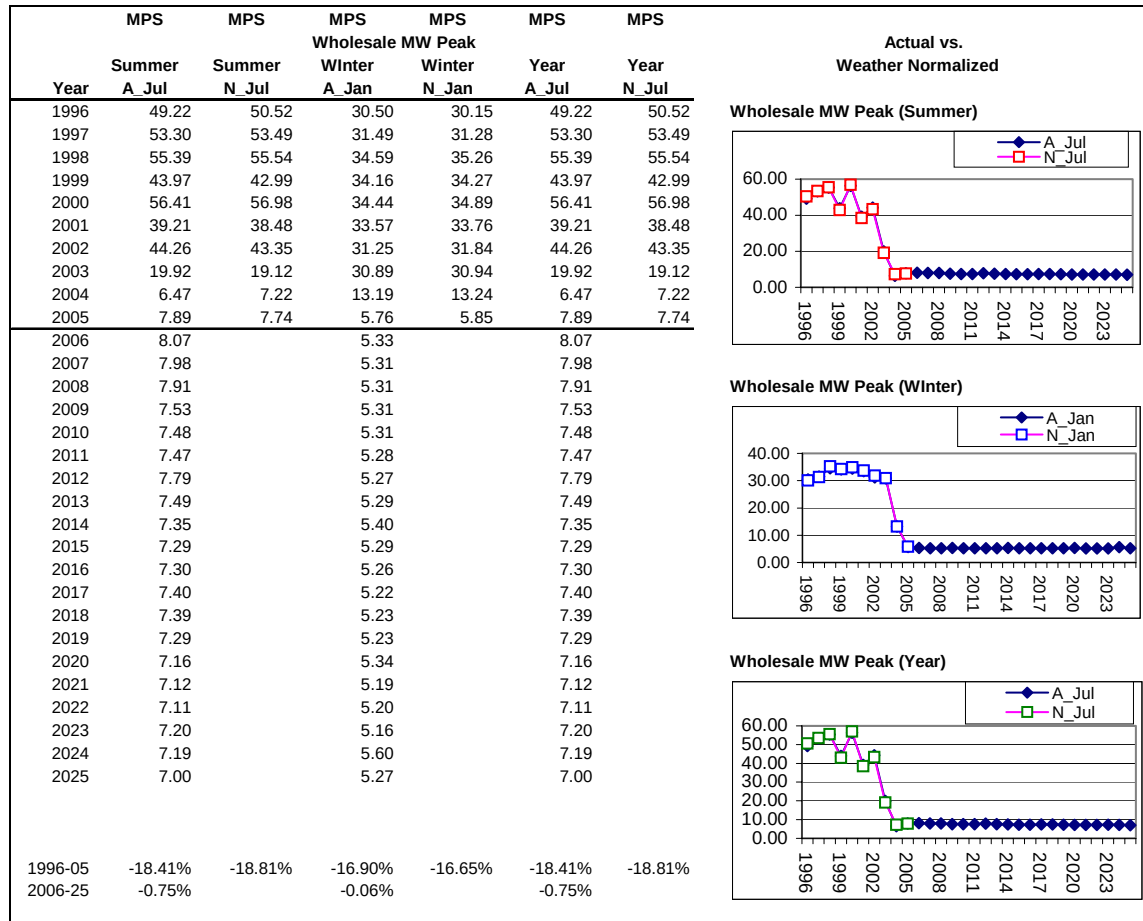
Plot D-54: MPS Industrial MW Peak Demand
(Actual vs. Weather Normalized)



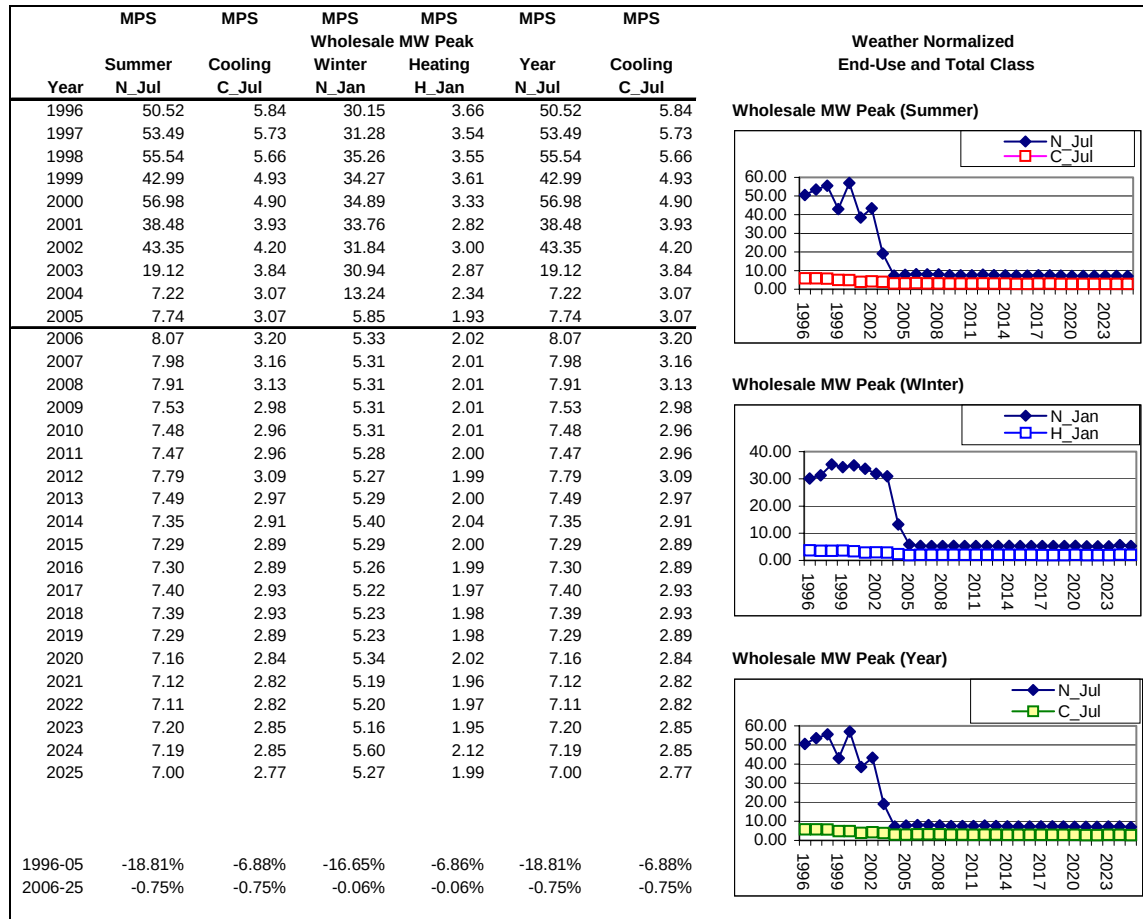
Plot D-55: MPS Industrial MW Peak Demand by End-Use



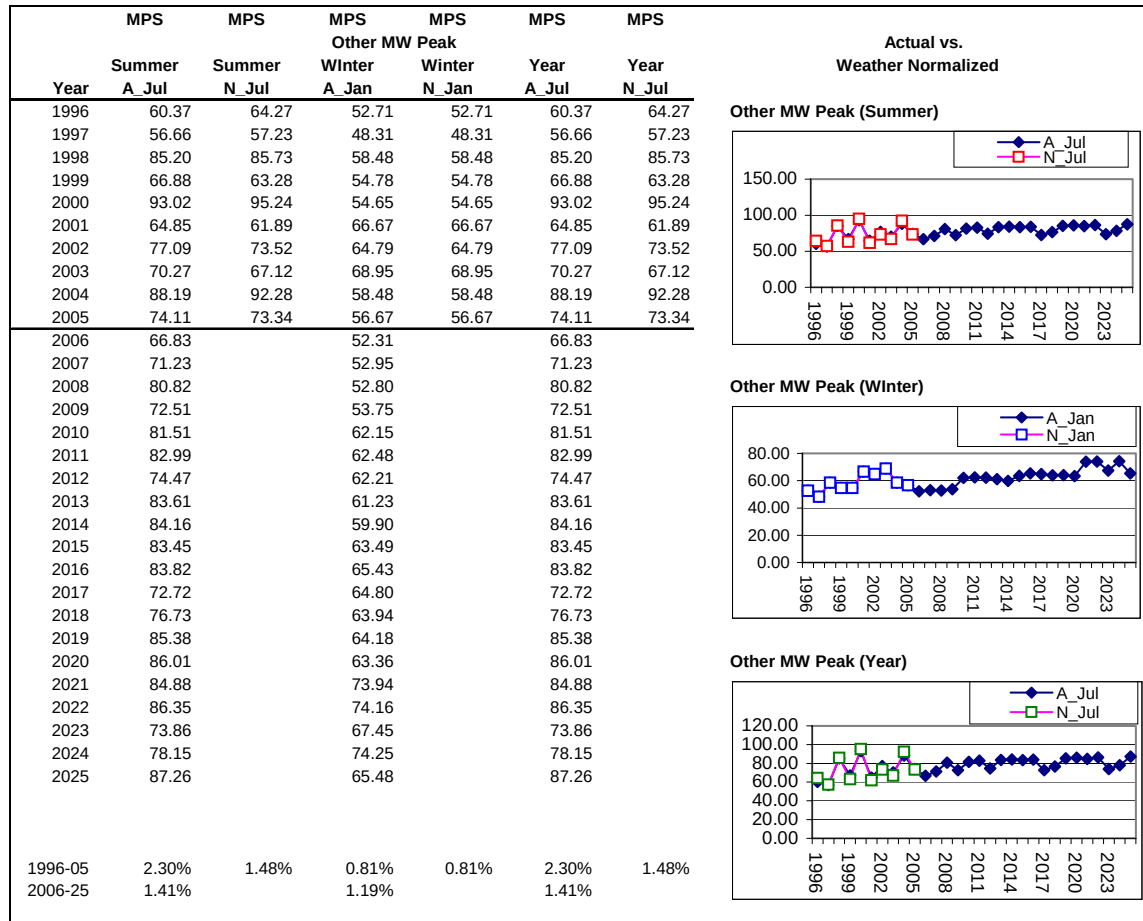
Plot D-56: MPS Wholesale MW Peak Demand
(Actual vs. Weather Normalized)



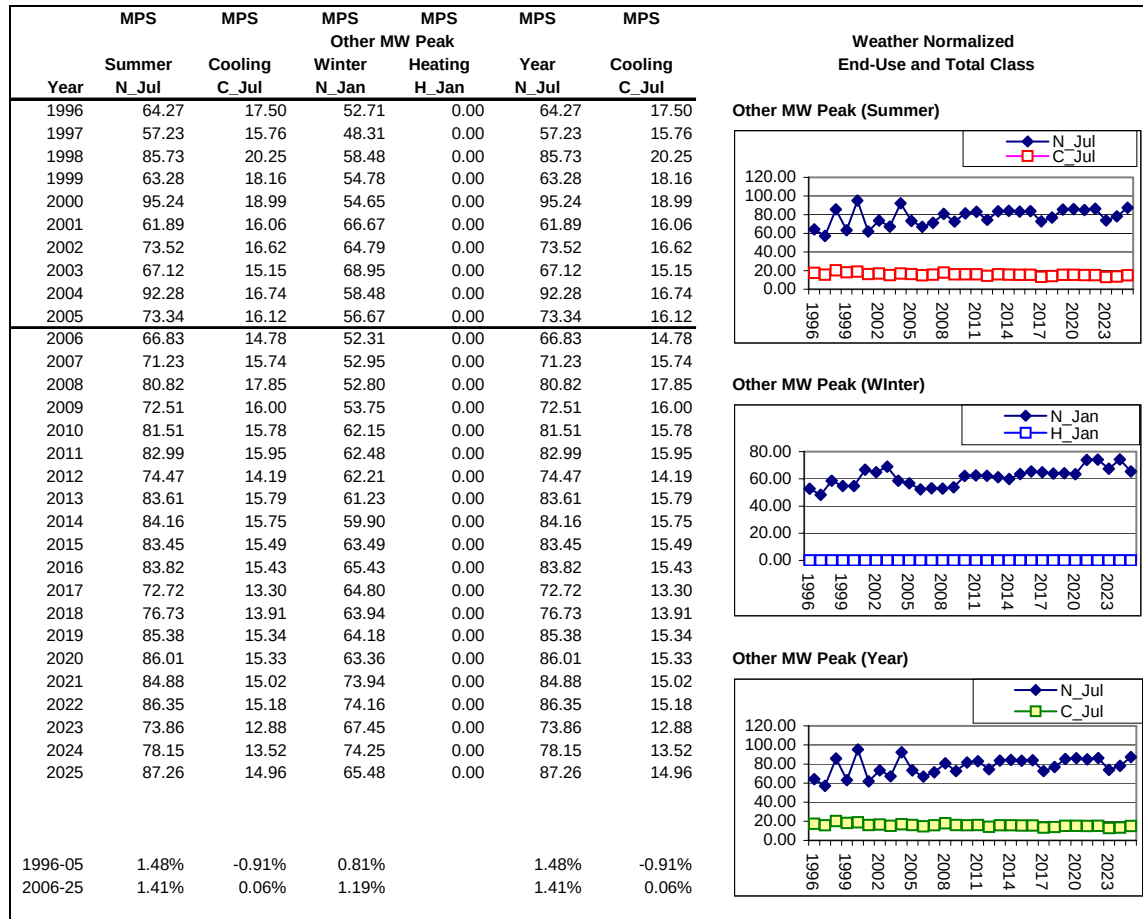
Plot D-57: MPS Wholesale MW Peak Demand by End-Use



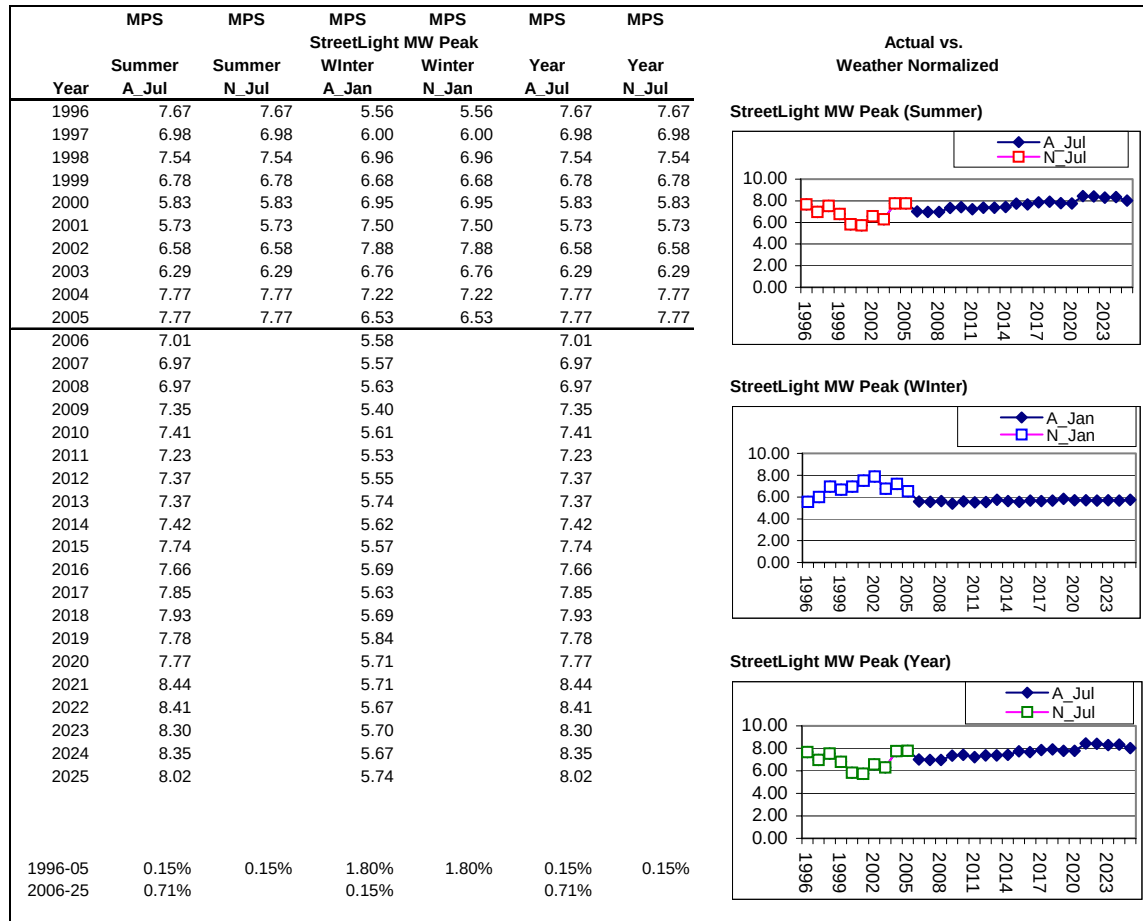
Plot D-58: MPS Other MW Peak Demand
(Actual vs. Weather Normalized)



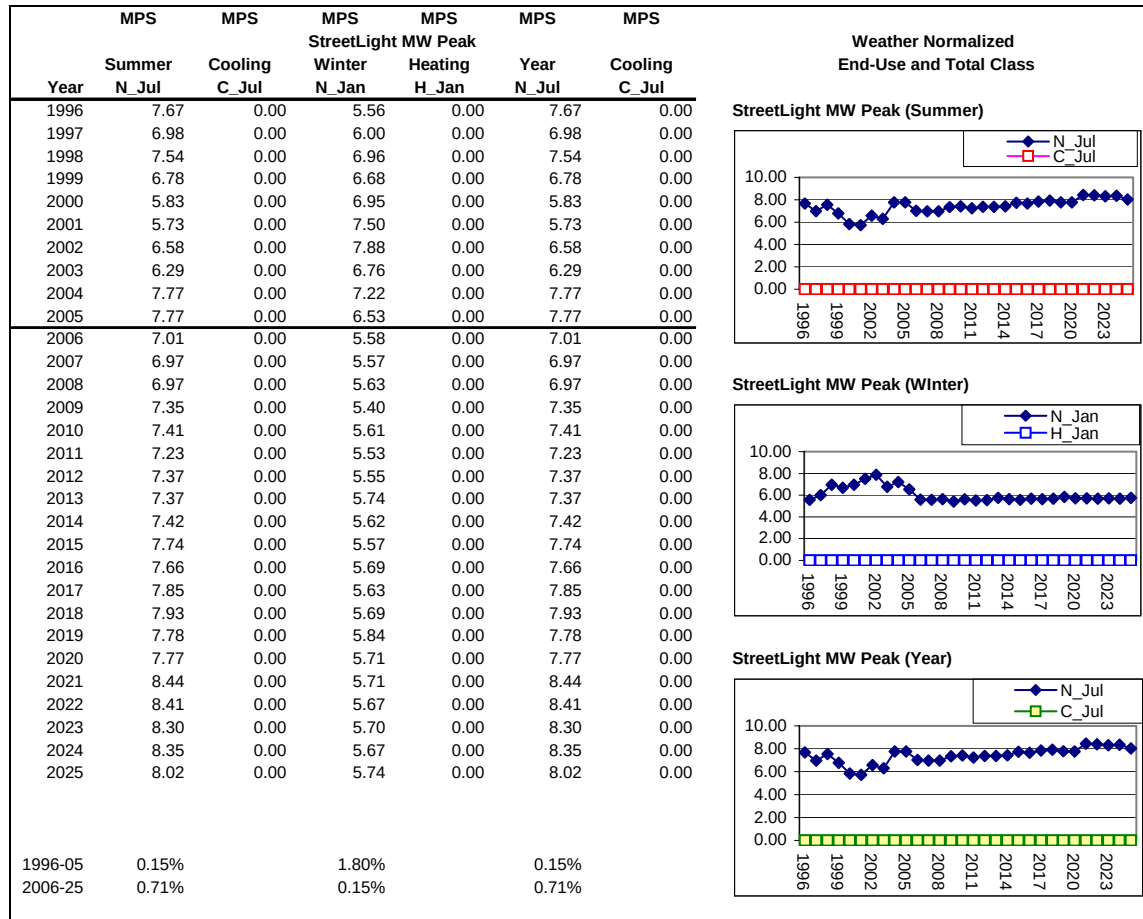
Plot D-59: MPS Other MW Peak Demand by End-Use



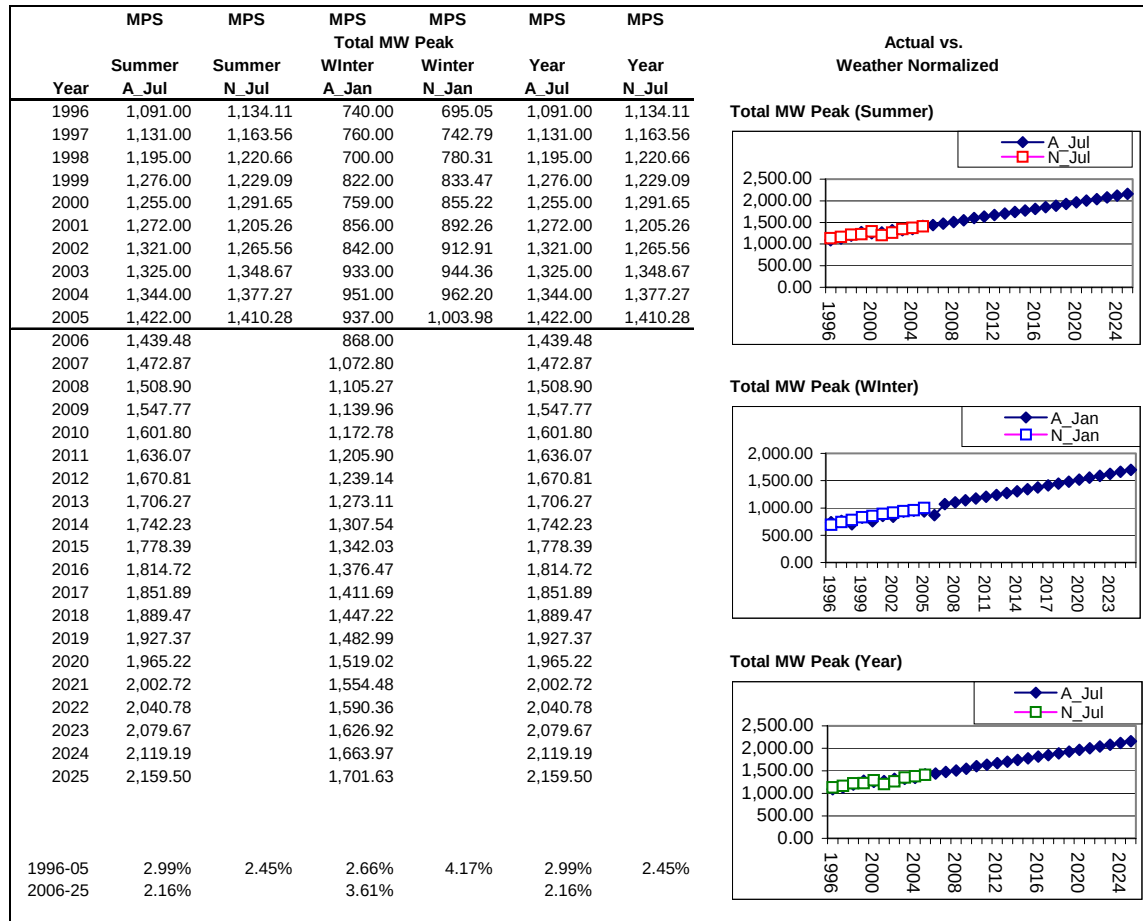
Plot D-60: MPS StreetLight MW Peak Demand
(Actual vs. Weather Normalized)



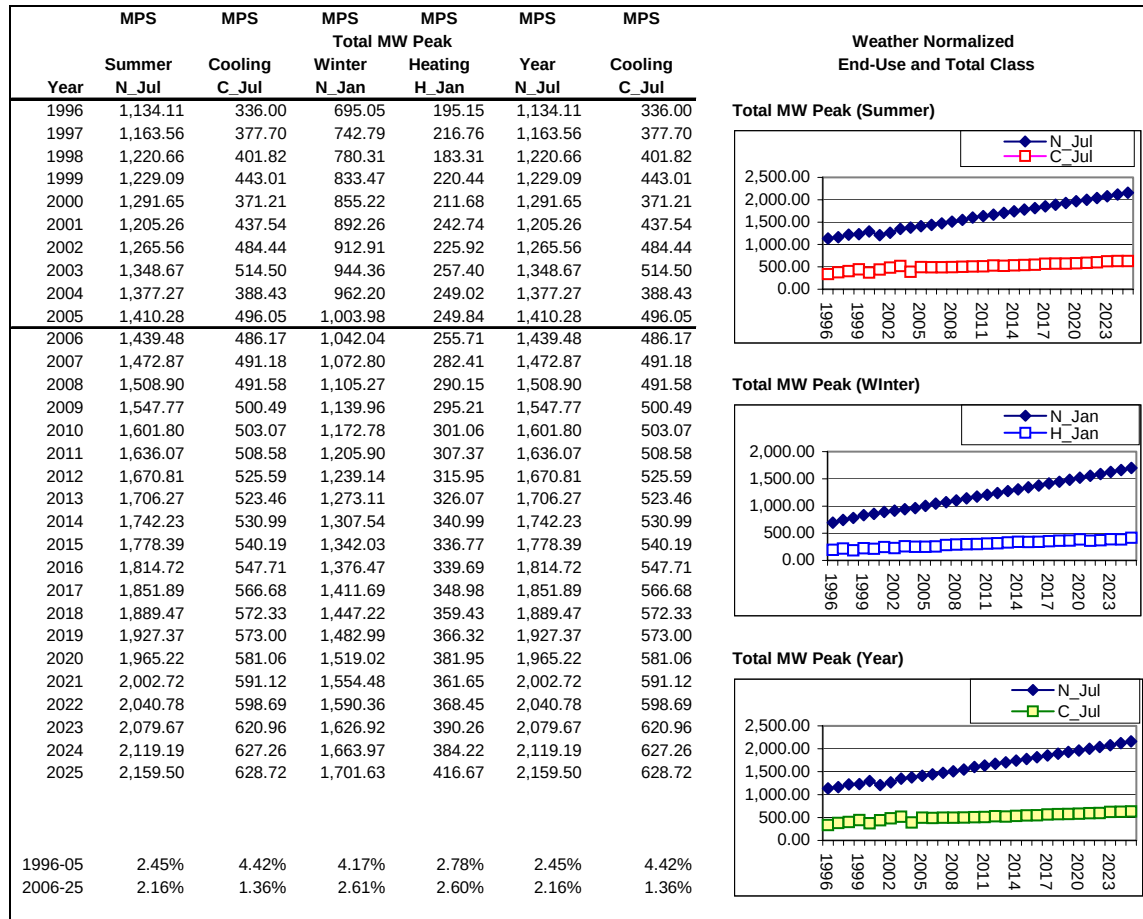
Plot D-61: MPS StreetLight MW Peak Demand by End-Use



Plot D-62: MPS Total MW Peak Demand
(Actual vs. Weather Normalized)



Plot D-63: MPS Total MW Peak Demand by End-Use



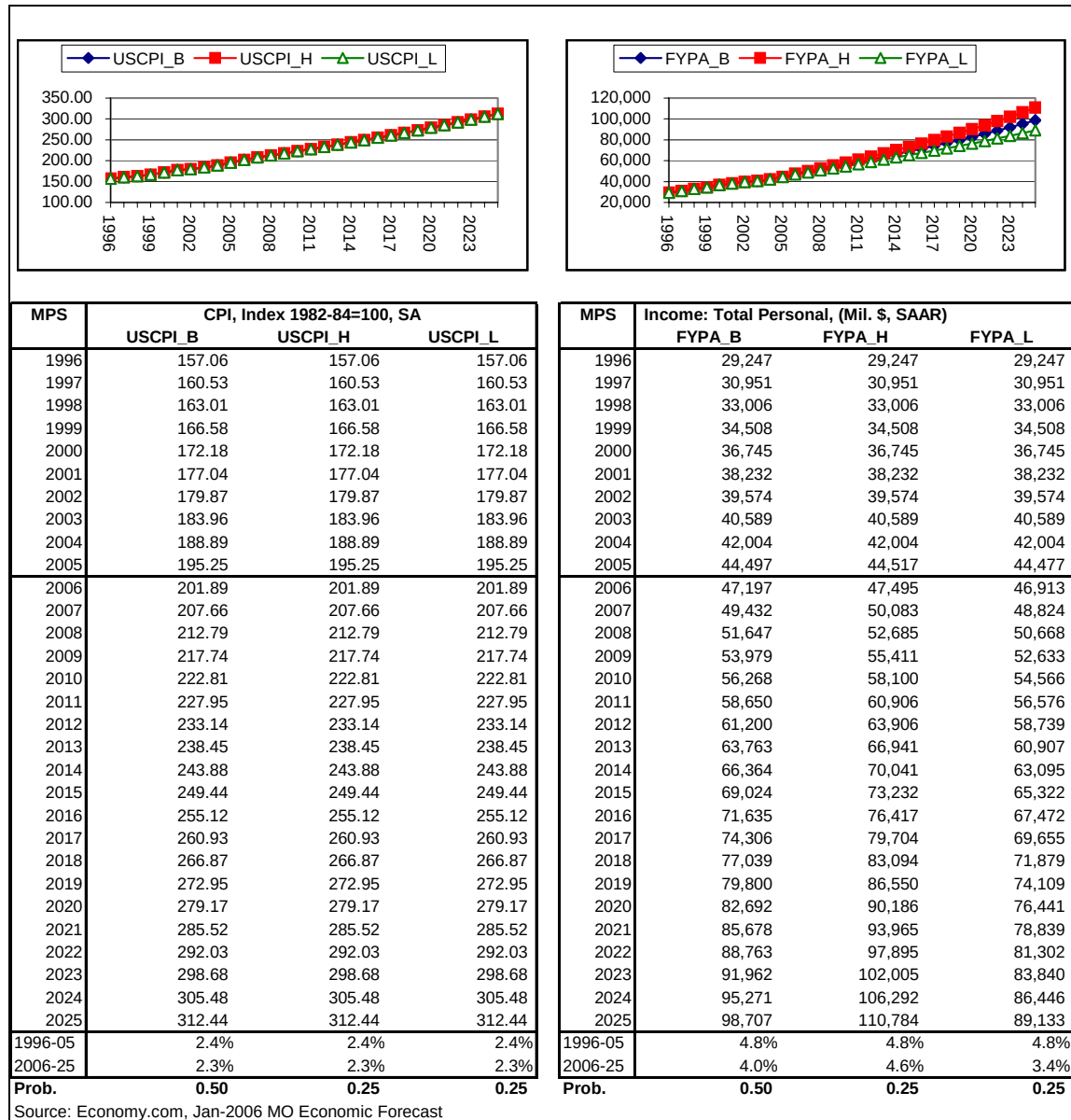
**Missouri 4 CSR 240-22.030 (8) Reporting Requirements
Load Analysis and Forecasting**

(8)(C) For the forecast of class energy and peak demand, the utility shall provide a summary of the sensitivity analysis required by section (6) of this rule that shows how changes in the driver variables affect the forecast.

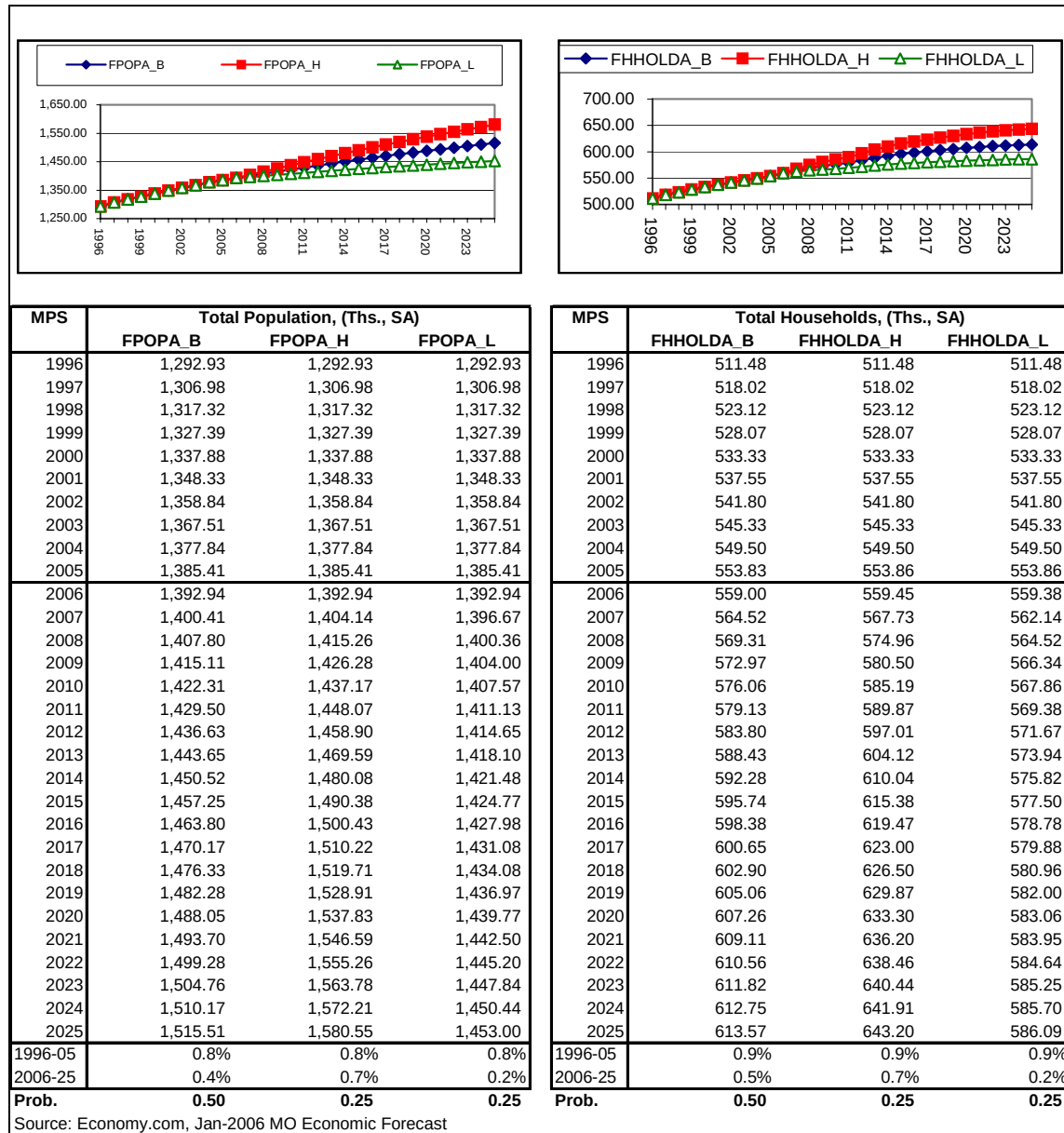
Compliance: See Plots D-64 through D-72 for MPS forecast sensitivity reports designed to comply with section (8)(C) reporting requirements.

Linked Files: Aquila Networks – Missouri Public Service (MPS)
8C_MPS_M2007F_Sensitivity.xls

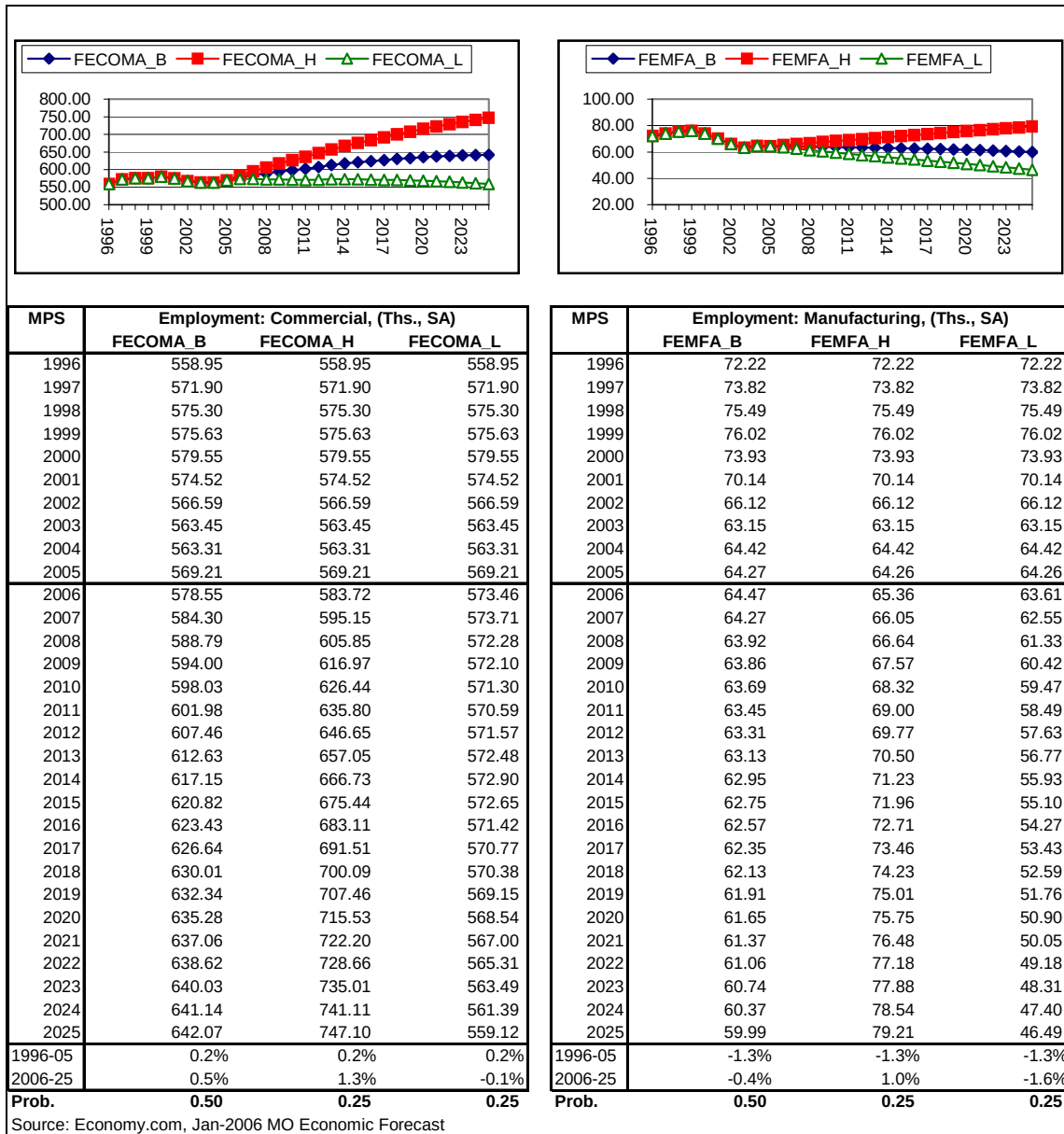
Plot D-64: MPS Forecast Driver Variables – Residential Use Per Customer
(Scenarios: Base, High, Low)



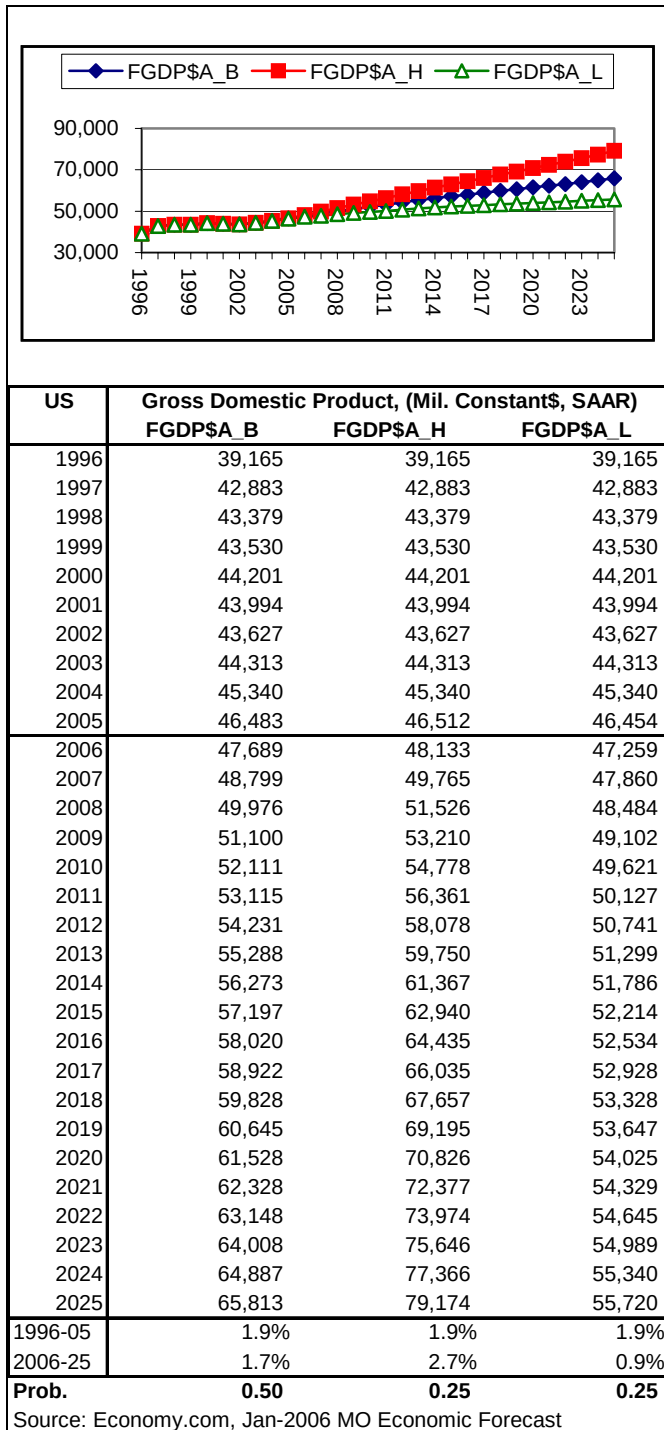
Plot D-65: MPS Forecast Driver Variables – Residential Customers
(Scenarios: Base, High, Low)



Plot D-66: MPS Forecast Driver Variables – Commercial Customers
(Scenarios: Base, High, Low)



Plot D-67: MPS Forecast Driver Variables – Commercial and Industrial Sales
(Scenarios: Base, High, Low)



Plot D-68: MPS Forecast Sensitivity – Base-case
(50% probability)

Aquila-MO MPS										
Case: Base										
Month (All)										
Data										
Year	Sum of ResGwh	Sum of ComGwh	Sum of IndGwh	Sum of WhoGwh	Sum of OthGwh	Sum of SLtGwh	Sum of SalesGwh	Sum of EnergyGwh	Max of PeakMW	Load Factor
1996	1,770.73	1,189.94	627.82	190.40	355.42	20.77	4,155.07	4,465.98	1,091	46.3%
1997	1,833.80	1,254.85	659.45	197.19	356.67	21.41	4,323.37	4,658.27	1,131	47.0%
1998	2,000.40	1,359.65	696.18	199.13	373.80	22.02	4,651.18	5,004.24	1,197	47.7%
1999	1,956.82	1,404.54	703.89	212.35	368.57	22.39	4,668.57	5,046.68	1,276	45.1%
2000	2,178.22	1,522.12	768.57	218.77	410.55	20.54	5,118.78	5,477.36	1,335	46.4%
2001	2,180.75	1,535.37	672.82	174.49	404.60	20.60	4,988.63	5,446.90	1,300	47.8%
2002	2,335.14	1,627.30	755.23	179.05	406.53	20.81	5,324.06	5,707.82	1,333	48.9%
2003	2,380.83	1,669.35	744.52	109.73	422.90	20.65	5,347.98	5,761.99	1,443	45.6%
2004	2,365.42	1,695.35	775.66	43.75	406.67	21.35	5,308.20	5,707.43	1,344	48.0%
2005	2,536.44	1,773.66	752.45	31.86	411.19	21.98	5,527.58	6,106.44	1,422	49.0%
2006	2,644.63	1,842.26	757.56	31.65	408.73	21.84	5,706.67	6,148.82	1,439	48.8%
2007	2,731.08	1,904.45	765.82	31.65	409.59	21.84	5,864.42	6,318.82	1,473	49.0%
2008	2,828.31	1,972.04	774.51	31.65	409.63	21.84	6,037.97	6,505.85	1,509	48.8%
2009	2,936.59	2,047.05	786.24	31.65	409.62	21.84	6,232.98	6,716.02	1,548	49.5%
2010	3,049.80	2,116.46	817.61	31.65	427.56	21.84	6,464.90	6,965.97	1,602	49.6%
2011	3,141.24	2,189.64	830.92	31.65	431.81	21.84	6,647.08	7,162.20	1,636	50.0%
2012	3,245.36	2,267.06	845.59	31.65	436.06	21.84	6,847.55	7,378.05	1,671	50.0%
2013	3,337.96	2,331.43	859.63	31.65	440.30	21.84	7,022.81	7,566.92	1,706	50.6%
2014	3,441.91	2,404.61	872.87	31.65	444.55	21.84	7,217.42	7,776.55	1,742	51.0%
2015	3,549.58	2,475.37	885.44	31.65	448.80	21.84	7,412.68	7,986.88	1,778	51.3%
2016	3,667.72	2,554.72	896.85	31.65	453.04	21.84	7,625.82	8,216.38	1,815	51.2%
2017	3,771.30	2,619.74	909.25	31.65	457.29	21.84	7,811.06	8,416.01	1,852	51.9%
2018	3,885.34	2,694.70	921.76	31.65	461.54	21.84	8,016.83	8,637.66	1,889	52.2%
2019	4,001.77	2,770.84	933.24	31.65	465.79	21.84	8,225.12	8,862.03	1,927	52.5%
2020	4,129.74	2,855.99	945.58	31.65	470.03	21.84	8,454.82	9,109.34	1,965	52.4%
2021	4,252.24	2,923.18	956.95	31.65	474.28	21.84	8,660.13	9,330.51	2,003	53.2%
2022	4,377.34	2,991.52	968.62	31.65	478.53	21.84	8,869.49	9,556.02	2,041	53.5%
2023	4,507.04	3,061.48	980.83	31.65	482.77	21.84	9,085.60	9,788.82	2,080	53.7%
2024	4,640.44	3,132.27	993.31	31.65	487.02	21.84	9,306.52	10,026.79	2,119	53.5%
2025	4,777.72	3,204.68	1,006.42	31.65	491.27	21.84	9,533.56	10,271.36	2,159	54.3%
2006-25	3.2%	3.0%	1.5%	0.0%	1.0%	0.0%	2.7%	2.7%	2.2%	0.3%
Growth/Yr	112.27	71.71	13.10	-	4.34	-	201.42	216.98	38	
2006 MW	942	319	103	8	67	0			1,439	
2025 MW	1,342	581	141	7	87	1			2,159	
2006.LF%	34.5%	71.1%	90.2%	48.2%	75.2%				48.8%	
2025.LF%	43.8%	67.8%	88.0%	55.6%	69.2%		7.2%	Losses	54.3%	

Plot D-69: MPS Forecast Sensitivity – Prices (10% increase every 3 years)
(Scenario A: Price increases vs. Base-case)

Aquila-MO Sensitivity Analysis MPS System Peak Demand and Class Energy Sales. Scenario A: 2010-2025 Price increase of 10% every 3 years (-0.1 elasticity) vs. Base-case (constant prices after 2006)								
Year	Residential ResGwh	Commercial ComGwh	Industrial IndGwh	Total SalesGwh	System EnergyGwh	System PeakMw	% Change EnergyGwh	% Change PeakMW
1996	-	-	-	-	-	-	0.0%	0.0%
1997	-	-	-	-	-	-	0.0%	0.0%
1998	-	-	-	-	-	-	0.0%	0.0%
1999	-	-	-	-	-	-	0.0%	0.0%
2000	-	-	-	-	-	-	0.0%	0.0%
2001	-	-	-	-	-	-	0.0%	0.0%
2002	-	-	-	-	-	-	0.0%	0.0%
2003	-	-	-	-	-	-	0.0%	0.0%
2004	-	-	-	-	-	-	0.0%	0.0%
2005	-	-	-	-	-	-	0.0%	0.0%
2006	-	-	-	-	-	-	0.0%	0.0%
2007	-	-	-	-	-	-	0.0%	0.0%
2008	-	-	-	-	-	-	0.0%	0.0%
2009	-	-	-	-	-	-	0.0%	0.0%
2010	(26.67)	(23.64)	(4.15)	(54.46)	(58.83)	(18)	-0.9%	-1.1%
2011	(37.29)	(32.89)	(6.30)	(76.48)	(82.41)	(18)	-1.2%	-1.5%
2012	(37.26)	(32.32)	(5.85)	(75.42)	(81.27)	(17)	-1.1%	-1.4%
2013	(54.20)	(47.70)	(9.15)	(111.05)	(119.81)	(31)	-1.6%	-2.0%
2014	(66.72)	(58.23)	(11.57)	(136.52)	(147.11)	(31)	-1.9%	-2.4%
2015	(67.60)	(58.05)	(11.31)	(136.96)	(147.58)	(31)	-1.9%	-2.3%
2016	(86.92)	(75.32)	(14.98)	(177.21)	(191.11)	(45)	-2.4%	-2.9%
2017	(101.44)	(86.89)	(17.67)	(206.00)	(221.96)	(46)	-2.7%	-3.3%
2018	(103.33)	(87.31)	(17.53)	(208.17)	(224.30)	(46)	-2.7%	-3.2%
2019	(125.25)	(106.12)	(21.47)	(252.84)	(272.60)	(61)	-3.1%	-3.8%
2020	(142.21)	(119.61)	(24.40)	(286.22)	(308.38)	(62)	-3.4%	-4.2%
2021	(145.18)	(120.17)	(24.38)	(289.74)	(312.18)	(63)	-3.4%	-4.1%
2022	(169.95)	(140.16)	(28.59)	(338.69)	(365.10)	(79)	-3.9%	-4.7%
2023	(189.31)	(154.20)	(31.75)	(375.25)	(404.30)	(80)	-4.2%	-5.0%
2024	(193.63)	(155.32)	(31.84)	(380.80)	(410.28)	(81)	-4.2%	-5.0%
2025	(221.64)	(176.89)	(36.34)	(434.87)	(468.74)	(99)	-4.6%	-5.5%

Plot D-69: MPS Forecast Sensitivity – Prices (10% increase every 3 years)
(Price increases applied to Base-case)

Aquila-MO MPS										
Case: Price (10% increase every 3 years, -0.1 elasticity)										
Month	(All)									
Year	Data									Load Factor
	Sum of ResGwh	Sum of ComGwh	Sum of IndGwh	Sum of WhoGwh	Sum of OthGwh	Sum of SLtGwh	Sum of SalesGwh	Sum of EnergyGwh	Max of PeakMW	
1996	1,770.73	1,189.94	627.82	190.40	355.42	20.77	4,155.07	4,465.98	1,091	46.3%
1997	1,833.80	1,254.85	659.45	197.19	356.67	21.41	4,323.37	4,658.27	1,131	47.0%
1998	2,000.40	1,359.65	696.18	199.13	373.80	22.02	4,651.18	5,004.24	1,197	47.7%
1999	1,956.82	1,404.54	703.89	212.35	368.57	22.39	4,668.57	5,046.68	1,276	45.1%
2000	2,178.22	1,522.12	768.57	218.77	410.55	20.54	5,118.78	5,477.36	1,335	46.4%
2001	2,180.75	1,535.37	672.82	174.49	404.60	20.60	4,988.63	5,446.90	1,300	47.8%
2002	2,335.14	1,627.30	755.23	179.05	406.53	20.81	5,324.06	5,707.82	1,333	48.9%
2003	2,380.83	1,669.35	744.52	109.73	422.90	20.65	5,347.98	5,761.99	1,443	45.6%
2004	2,365.42	1,695.35	775.66	43.75	406.67	21.35	5,308.20	5,707.43	1,344	48.0%
2005	2,536.44	1,773.66	752.45	31.86	411.19	21.98	5,527.58	6,106.44	1,422	49.0%
2006	2,644.63	1,842.26	757.56	31.65	408.73	21.84	5,706.67	6,148.82	1,439	48.8%
2007	2,731.08	1,904.45	765.82	31.65	409.59	21.84	5,864.42	6,318.82	1,473	49.0%
2008	2,828.31	1,972.04	774.51	31.65	409.63	21.84	6,037.97	6,505.85	1,509	48.8%
2009	2,936.59	2,047.05	786.24	31.65	409.62	21.84	6,232.98	6,716.02	1,548	49.5%
2010	3,023.13	2,092.81	813.46	31.65	427.56	21.84	6,410.44	6,907.14	1,584	49.8%
2011	3,103.94	2,156.75	824.62	31.65	431.81	21.84	6,570.60	7,079.79	1,618	49.9%
2012	3,208.10	2,234.74	839.75	31.65	436.06	21.84	6,772.13	7,296.78	1,653	49.9%
2013	3,283.76	2,283.73	850.49	31.65	440.30	21.84	6,911.76	7,447.11	1,676	50.7%
2014	3,375.20	2,346.37	861.30	31.65	444.55	21.84	7,080.90	7,629.45	1,711	50.9%
2015	3,481.99	2,417.32	874.13	31.65	448.80	21.84	7,275.72	7,839.30	1,748	51.2%
2016	3,580.80	2,479.40	881.87	31.65	453.04	21.84	7,448.61	8,025.27	1,770	51.3%
2017	3,669.86	2,532.85	891.58	31.65	457.29	21.84	7,605.06	8,194.05	1,806	51.8%
2018	3,782.01	2,607.39	904.24	31.65	461.54	21.84	7,808.66	8,413.37	1,844	52.1%
2019	3,876.52	2,664.72	911.77	31.65	465.79	21.84	7,972.28	8,589.43	1,866	52.5%
2020	3,987.53	2,736.38	921.18	31.65	470.03	21.84	8,168.60	8,800.96	1,903	52.3%
2021	4,107.06	2,803.01	932.57	31.65	474.28	21.84	8,370.40	9,018.33	1,940	53.1%
2022	4,207.40	2,851.36	940.03	31.65	478.53	21.84	8,530.80	9,190.92	1,961	53.5%
2023	4,317.73	2,907.28	949.08	31.65	482.77	21.84	8,710.35	9,384.51	1,999	53.6%
2024	4,446.81	2,976.95	961.46	31.65	487.02	21.84	8,925.72	9,616.51	2,038	53.4%
2025	4,556.07	3,027.79	970.07	31.65	491.27	21.84	9,098.69	9,802.62	2,061	54.3%
2006-25	2.9%	2.6%	1.3%	0.0%	1.0%	0.0%	2.5%	2.5%	1.9%	0.3%
Growth/Yr	100.60	62.40	11.19	-	4.34	-	178.53	192.31	33	
2006 MW	942	319	103	8	67	0			1,439	
2025 MW	1,280	549	136	7	87	1			2,061	
2006.LF%	34.5%	71.1%	90.2%	48.2%	75.2%				48.8%	
2025.LF%	43.8%	67.8%	88.0%	55.6%	69.2%		7.2%	Losses	54.3%	

Plot D-70: MPS Forecast Sensitivity – Real GDP Growth (3% per year)
(Scenario B: Real GDP growth 3% annually vs. Price-case)

Aquila-MO Sensitivity Analysis MPS System Peak Demand and Class Energy Sales. Scenario B: 2010-2025 Real GDP growth of 3%/year vs. Price-Case (10% price increases every 3 years)								
Year	Residential ResGwh	Commercial ComGwh	Industrial IndGwh	Total SalesGwh	System EnergyGwh	System PeakMw	% Change EnergyGwh	% Change PeakMW
1996	-	-	-	-	-	-	0.0%	0.0%
1997	-	-	-	-	-	-	0.0%	0.0%
1998	-	-	-	-	-	-	0.0%	0.0%
1999	-	-	-	-	-	-	0.0%	0.0%
2000	-	-	-	-	-	-	0.0%	0.0%
2001	-	-	-	-	-	-	0.0%	0.0%
2002	-	-	-	-	-	-	0.0%	0.0%
2003	-	-	-	-	-	-	0.0%	0.0%
2004	-	-	-	-	-	-	0.0%	0.0%
2005	-	-	-	-	-	-	0.0%	0.0%
2006	-	-	-	-	-	-	0.0%	0.0%
2007	-	-	-	-	-	-	0.0%	0.0%
2008	-	-	-	-	-	-	0.0%	0.0%
2009	-	-	-	-	-	-	0.0%	0.0%
2010	6.85	15.70	10.05	32.59	35.11	8	0.2%	0.7%
2011	8.54	22.42	16.12	47.08	50.71	11	0.3%	1.0%
2012	10.34	28.85	21.26	60.46	65.11	13	0.3%	1.3%
2013	12.38	35.94	27.86	76.19	82.06	17	0.4%	1.5%
2014	14.49	44.56	35.88	94.93	102.23	20	0.4%	1.9%
2015	16.67	54.58	45.17	116.42	125.37	25	0.5%	2.2%
2016	19.00	66.05	56.37	141.42	152.29	30	0.5%	2.6%
2017	21.47	77.00	67.21	165.68	178.41	35	0.6%	2.9%
2018	24.05	89.20	78.73	191.97	206.72	40	0.6%	3.3%
2019	26.76	102.37	91.87	221.00	237.97	45	0.7%	3.7%
2020	29.62	116.02	104.90	250.54	269.78	51	0.7%	4.1%
2021	32.61	131.05	119.91	283.57	305.34	58	0.8%	4.5%
2022	35.73	145.53	135.03	316.29	340.56	64	0.8%	4.9%
2023	39.01	160.51	150.48	350.00	376.86	70	0.9%	5.2%
2024	42.48	176.69	166.92	386.10	415.73	77	0.9%	5.6%
2025	46.04	191.78	182.97	420.79	453.08	83	1.0%	6.0%

Plot D-70: MPS Forecast Sensitivity – Real GDP Growth (3% per year)
(Real GDP growth 3% annually applied to Price-case)

Aquila-MO MPS										
Case: GDP (3%/year real GDP growth)										
Month (All)										
Year	Data									
	Sum of ResGwh	Sum of ComGwh	Sum of IndGwh	Sum of WhoGwh	Sum of OthGwh	Sum of SLtGwh	Sum of SalesGwh	Sum of EnergyGwh	Max of PeakMW	Load Factor
1996	1,770.73	1,189.94	627.82	190.40	355.42	20.77	4,155.07	4,465.98	1,091	46.3%
1997	1,833.80	1,254.85	659.45	197.19	356.67	21.41	4,323.37	4,658.27	1,131	47.0%
1998	2,000.40	1,359.65	696.18	199.13	373.80	22.02	4,651.18	5,004.24	1,197	47.7%
1999	1,956.82	1,404.54	703.89	212.35	368.57	22.39	4,668.57	5,046.68	1,276	45.1%
2000	2,178.22	1,522.12	768.57	218.77	410.55	20.54	5,118.78	5,477.36	1,335	46.4%
2001	2,180.75	1,535.37	672.82	174.49	404.60	20.60	4,988.63	5,446.90	1,300	47.8%
2002	2,335.14	1,627.30	755.23	179.05	406.53	20.81	5,324.06	5,707.82	1,333	48.9%
2003	2,380.83	1,669.35	744.52	109.73	422.90	20.65	5,347.98	5,761.99	1,443	45.6%
2004	2,365.42	1,695.35	775.66	43.75	406.67	21.35	5,308.20	5,707.43	1,344	48.0%
2005	2,536.44	1,773.66	752.45	31.86	411.19	21.98	5,527.58	6,106.44	1,422	49.0%
2006	2,644.63	1,842.26	757.56	31.65	408.73	21.84	5,706.67	6,148.82	1,439	48.8%
2007	2,731.08	1,904.45	765.82	31.65	409.59	21.84	5,864.42	6,318.82	1,473	49.0%
2008	2,828.31	1,972.04	774.51	31.65	409.63	21.84	6,037.97	6,505.85	1,509	48.8%
2009	2,936.59	2,047.05	786.24	31.65	409.62	21.84	6,232.98	6,716.02	1,548	49.5%
2010	3,029.97	2,108.51	823.51	31.65	427.56	21.84	6,443.04	6,942.25	1,591	49.8%
2011	3,112.48	2,179.17	840.74	31.65	431.81	21.84	6,617.69	7,130.50	1,629	50.0%
2012	3,218.44	2,263.59	861.01	31.65	436.06	21.84	6,832.59	7,361.89	1,667	50.0%
2013	3,296.14	2,319.67	878.35	31.65	440.30	21.84	6,987.95	7,529.16	1,692	50.8%
2014	3,389.69	2,390.93	897.17	31.65	444.55	21.84	7,175.83	7,731.68	1,732	51.0%
2015	3,498.65	2,471.89	919.31	31.65	448.80	21.84	7,392.13	7,964.67	1,772	51.3%
2016	3,599.80	2,545.46	938.24	31.65	453.04	21.84	7,590.03	8,177.56	1,799	51.4%
2017	3,691.32	2,609.85	958.79	31.65	457.29	21.84	7,770.74	8,372.46	1,841	51.9%
2018	3,806.06	2,696.59	982.96	31.65	461.54	21.84	8,000.63	8,620.09	1,883	52.2%
2019	3,903.28	2,767.09	1,003.64	31.65	465.79	21.84	8,193.28	8,827.40	1,911	52.7%
2020	4,017.15	2,852.40	1,026.08	31.65	470.03	21.84	8,419.15	9,070.74	1,954	52.5%
2021	4,139.67	2,934.06	1,052.48	31.65	474.28	21.84	8,653.97	9,323.67	1,998	53.3%
2022	4,243.13	2,996.89	1,075.06	31.65	478.53	21.84	8,847.08	9,531.48	2,025	53.7%
2023	4,356.74	3,067.79	1,099.56	31.65	482.77	21.84	9,060.35	9,761.38	2,070	53.8%
2024	4,489.29	3,153.64	1,128.39	31.65	487.02	21.84	9,311.82	10,032.24	2,115	53.7%
2025	4,602.12	3,219.57	1,153.04	31.65	491.27	21.84	9,519.48	10,255.70	2,144	54.6%
2006-25 Growth/Yr	3.0%	3.0%	2.2%	0.0%	1.0%	0.0%	2.7%	2.7%	2.1%	0.3%
2006 MW	103.03	72.49	20.81	-	4.34	-	200.67	216.15	37	
2025 MW	942	319	103	8	67	0			1,439	
2006.LF%	1,293	584	161	7	87	1			2,144	
2006.LF%	34.5%	71.1%	90.2%	48.2%	75.2%				48.8%	
2025.LF%	43.8%	67.8%	88.0%	55.6%	69.2%		7.2%	Losses	54.6%	

Plot D-71: MPS Forecast Sensitivity – Low vs. Base-case
(Scenario C: Low-Base difference)

Aquila-MO Sensitivity Analysis MPS System Peak Demand and Class Energy Sales. Scenario C: Low-case (Economy.com low economic growth scenario) vs. Base-case								
Year	Residential ResGwh	Commercial ComGwh	Industrial IndGwh	Total SalesGwh	System EnergyGwh	System PeakMw	% Change EnergyGwh	% Change PeakMW
1996	-	-	-	-	-	-	0.0%	0.0%
1997	-	-	-	-	-	-	0.0%	0.0%
1998	-	-	-	-	-	-	0.0%	0.0%
1999	-	-	-	-	-	-	0.0%	0.0%
2000	-	-	-	-	-	-	0.0%	0.0%
2001	-	-	-	-	-	-	0.0%	0.0%
2002	-	-	-	-	-	-	0.0%	0.0%
2003	-	-	-	-	-	-	0.0%	0.0%
2004	-	-	-	-	-	-	0.0%	0.0%
2005	-	-	-	-	-	-	0.0%	0.0%
2006	-	-	-	-	-	-	0.0%	0.0%
2007	-	-	-	-	-	-	0.0%	0.0%
2008	-	-	-	-	-	-	0.0%	0.0%
2009	-	-	-	-	-	-	0.0%	0.0%
2010	(17.41)	(4.86)	(12.21)	(34.48)	(37.16)	(4)	-0.6%	-0.2%
2011	(27.37)	(4.18)	(16.64)	(48.19)	(51.94)	(6)	-0.9%	-0.2%
2012	(31.78)	(6.26)	(20.87)	(58.91)	(63.48)	(7)	-1.0%	-0.3%
2013	(35.36)	(8.54)	(25.23)	(69.13)	(74.49)	(9)	-1.1%	-0.4%
2014	(39.76)	(10.69)	(29.77)	(80.21)	(86.43)	(10)	-1.2%	-0.4%
2015	(44.70)	(12.50)	(34.47)	(91.67)	(98.76)	(11)	-1.3%	-0.5%
2016	(50.82)	(13.85)	(39.52)	(104.19)	(112.25)	(13)	-1.4%	-0.5%
2017	(57.44)	(15.60)	(44.48)	(117.52)	(126.61)	(14)	-1.5%	-0.6%
2018	(64.26)	(17.71)	(49.43)	(131.40)	(141.57)	(16)	-1.7%	-0.7%
2019	(71.31)	(19.36)	(54.50)	(145.17)	(156.40)	(18)	-1.8%	-0.7%
2020	(78.54)	(21.65)	(59.53)	(159.72)	(172.08)	(19)	-1.9%	-0.8%
2021	(86.27)	(23.29)	(64.67)	(174.22)	(187.70)	(21)	-2.0%	-0.8%
2022	(94.73)	(24.95)	(69.90)	(189.58)	(204.24)	(23)	-2.2%	-0.8%
2023	(103.71)	(26.66)	(75.23)	(205.60)	(221.50)	(25)	-2.3%	-0.9%
2024	(113.42)	(28.29)	(80.70)	(222.41)	(239.61)	(27)	-2.4%	-0.9%
2025	(123.69)	(29.95)	(86.34)	(239.98)	(258.54)	(29)	-2.6%	-0.9%

Plot D-71: MPS Forecast Sensitivity – Low-case
(25% probability)

Aquila-MO MPS										
Case: Low-case										
Month: (All)										
Year	Data									
	Sum of ResGwh	Sum of ComGwh	Sum of IndGwh	Sum of WhoGwh	Sum of OthGwh	Sum of SLtGwh	Sum of SalesGwh	Sum of EnergyGwh	Max of PeakMW	Load Factor
1996	1,770.73	1,189.94	627.82	190.40	355.42	20.77	4,155.07	4,465.98	1,091	46.3%
1997	1,833.80	1,254.85	659.45	197.19	356.67	21.41	4,323.37	4,658.27	1,131	47.0%
1998	2,000.40	1,359.65	696.18	199.13	373.80	22.02	4,651.18	5,004.24	1,197	47.7%
1999	1,956.82	1,404.54	703.89	212.35	368.57	22.39	4,668.57	5,046.68	1,276	45.1%
2000	2,178.22	1,522.12	768.57	218.77	410.55	20.54	5,118.78	5,477.36	1,335	46.4%
2001	2,180.75	1,535.37	672.82	174.49	404.60	20.60	4,988.63	5,446.90	1,300	47.8%
2002	2,335.14	1,627.30	755.23	179.05	406.53	20.81	5,324.06	5,707.82	1,333	48.9%
2003	2,380.83	1,669.35	744.52	109.73	422.90	20.65	5,347.98	5,761.99	1,443	45.6%
2004	2,365.42	1,695.35	775.66	43.75	406.67	21.35	5,308.20	5,707.43	1,344	48.0%
2005	2,536.44	1,773.66	752.45	31.86	411.19	21.98	5,527.58	6,106.44	1,422	49.0%
2006	2,644.63	1,842.26	757.56	31.65	408.73	21.84	5,706.67	6,148.82	1,439	48.8%
2007	2,731.08	1,904.45	765.82	31.65	409.59	21.84	5,864.42	6,318.82	1,473	49.0%
2008	2,828.31	1,972.04	774.51	31.65	409.63	21.84	6,037.97	6,505.85	1,509	48.8%
2009	2,936.59	2,047.05	786.24	31.65	409.62	21.84	6,232.98	6,716.02	1,548	49.5%
2010	3,032.39	2,111.60	805.39	31.65	427.56	21.84	6,430.43	6,928.81	1,597	49.5%
2011	3,113.87	2,185.45	814.28	31.65	431.81	21.84	6,598.89	7,110.26	1,630	49.8%
2012	3,213.58	2,260.80	824.72	31.65	436.06	21.84	6,788.64	7,314.57	1,663	49.7%
2013	3,302.60	2,322.88	834.41	31.65	440.30	21.84	6,953.68	7,492.43	1,698	50.4%
2014	3,402.16	2,393.92	843.10	31.65	444.55	21.84	7,137.21	7,690.13	1,732	50.7%
2015	3,504.88	2,462.87	850.98	31.65	448.80	21.84	7,321.01	7,888.11	1,767	51.0%
2016	3,616.90	2,540.88	857.33	31.65	453.04	21.84	7,521.64	8,104.12	1,802	50.9%
2017	3,713.86	2,604.15	864.77	31.65	457.29	21.84	7,693.55	8,289.40	1,838	51.5%
2018	3,821.08	2,676.99	872.34	31.65	461.54	21.84	7,885.43	8,496.10	1,874	51.8%
2019	3,930.46	2,751.48	878.75	31.65	465.79	21.84	8,079.95	8,705.63	1,910	52.0%
2020	4,051.20	2,834.34	886.05	31.65	470.03	21.84	8,295.10	8,937.26	1,946	52.0%
2021	4,165.98	2,899.89	892.28	31.65	474.28	21.84	8,485.91	9,142.80	1,982	52.7%
2022	4,282.61	2,966.56	898.72	31.65	478.53	21.84	8,679.91	9,351.78	2,018	52.9%
2023	4,403.33	3,034.82	905.60	31.65	482.77	21.84	8,880.00	9,567.32	2,055	53.1%
2024	4,527.02	3,103.98	912.61	31.65	487.02	21.84	9,084.11	9,787.18	2,093	52.9%
2025	4,654.03	3,174.72	920.08	31.65	491.27	21.84	9,293.58	10,012.82	2,131	53.6%
2006-25	3.0%	2.9%	1.0%	0.0%	1.0%	0.0%	2.6%	2.6%	2.1%	0.3%
Growth/Yr	105.76	70.13	8.55	-	4.34	-	188.79	203.37	36	
2006 MW	942	319	103	8	67	0			1,439	
2025 MW	1,307	576	129	7	87	1			2,131	
2006.LF%	34.5%	71.1%	90.2%	48.2%	75.2%				48.8%	
2025.LF%	43.8%	67.8%	88.0%	55.6%	69.2%		7.2%	Losses	53.6%	

Plot D-72: MPS Forecast Sensitivity – High vs. Base-case
(Scenario C: High-Base difference)

Aquila-MO Sensitivity Analysis MPS System Peak Demand and Class Energy Sales. Scenario D: High-case (Economy.com high economic growth scenario) vs. Base-case								
Year	Residential ResGwh	Commercial ComGwh	Industrial IndGwh	Total SalesGwh	System EnergyGwh	System PeakMw	% Change EnergyGwh	% Change PeakMW
1996	-	-	-	-	-	-	0.0%	0.0%
1997	-	-	-	-	-	-	0.0%	0.0%
1998	-	-	-	-	-	-	0.0%	0.0%
1999	-	-	-	-	-	-	0.0%	0.0%
2000	-	-	-	-	-	-	0.0%	0.0%
2001	-	-	-	-	-	-	0.0%	0.0%
2002	-	-	-	-	-	-	0.0%	0.0%
2003	-	-	-	-	-	-	0.0%	0.0%
2004	-	-	-	-	-	-	0.0%	0.0%
2005	-	-	-	-	-	-	0.0%	0.0%
2006	-	-	-	-	-	-	0.0%	0.0%
2007	-	-	-	-	-	-	0.0%	0.0%
2008	-	-	-	-	-	-	0.0%	0.0%
2009	-	-	-	-	-	-	0.0%	0.0%
2010	12.45	13.38	7.46	33.29	35.87	4	0.4%	0.6%
2011	24.62	17.82	10.91	53.35	57.49	7	0.8%	0.8%
2012	38.14	22.74	14.37	75.25	81.08	9	1.2%	1.0%
2013	50.60	27.80	18.10	96.51	103.99	12	1.5%	1.2%
2014	62.41	32.75	22.18	117.33	126.42	15	1.8%	1.4%
2015	74.45	37.54	26.55	138.55	149.28	17	2.1%	1.5%
2016	86.94	42.14	31.38	160.46	172.89	20	2.4%	1.6%
2017	100.01	47.20	36.35	183.56	197.77	23	2.7%	1.8%
2018	114.62	52.50	41.49	208.61	224.77	26	3.0%	1.9%
2019	130.63	57.51	46.91	235.04	253.25	29	3.3%	2.1%
2020	148.45	63.01	52.46	263.92	284.36	33	3.6%	2.2%
2021	166.77	68.12	58.27	293.15	315.85	36	3.9%	2.3%
2022	185.60	73.31	64.30	323.22	348.24	40	4.2%	2.5%
2023	205.54	78.67	70.63	354.84	382.31	44	4.6%	2.6%
2024	226.24	84.10	77.26	387.60	417.60	48	4.9%	2.7%
2025	247.99	89.68	84.22	421.89	454.54	52	5.2%	2.8%

Plot D-72: MPS Forecast Sensitivity – High-case
(25% probability)

Aquila-MO MPS										
Case: High-case										
Month: (All)										
Year	Data									
	Sum of ResGwh	Sum of ComGwh	Sum of IndGwh	Sum of WhoGwh	Sum of OthGwh	Sum of SLtGwh	Sum of SalesGwh	Sum of EnergyGwh	Max of PeakMW	Load Factor
1996	1,770.73	1,189.94	627.82	190.40	355.42	20.77	4,155.07	4,465.98	1,091	46.3%
1997	1,833.80	1,254.85	659.45	197.19	356.67	21.41	4,323.37	4,658.27	1,131	47.0%
1998	2,000.40	1,359.65	696.18	199.13	373.80	22.02	4,651.18	5,004.24	1,197	47.7%
1999	1,956.82	1,404.54	703.89	212.35	368.57	22.39	4,668.57	5,046.68	1,276	45.1%
2000	2,178.22	1,522.12	768.57	218.77	410.55	20.54	5,118.78	5,477.36	1,335	46.4%
2001	2,180.75	1,535.37	672.82	174.49	404.60	20.60	4,988.63	5,446.90	1,300	47.8%
2002	2,335.14	1,627.30	755.23	179.05	406.53	20.81	5,324.06	5,707.82	1,333	48.9%
2003	2,380.83	1,669.35	744.52	109.73	422.90	20.65	5,347.98	5,761.99	1,443	45.6%
2004	2,365.42	1,695.35	775.66	43.75	406.67	21.35	5,308.20	5,707.43	1,344	48.0%
2005	2,536.44	1,773.66	752.45	31.86	411.19	21.98	5,527.58	6,106.44	1,422	49.0%
2006	2,644.63	1,842.26	757.56	31.65	408.73	21.84	5,706.67	6,148.82	1,439	48.8%
2007	2,731.08	1,904.45	765.82	31.65	409.59	21.84	5,864.42	6,318.82	1,473	49.0%
2008	2,828.31	1,972.04	774.51	31.65	409.63	21.84	6,037.97	6,505.85	1,509	48.8%
2009	2,936.59	2,047.05	786.24	31.65	409.62	21.84	6,232.98	6,716.02	1,548	49.5%
2010	3,062.25	2,129.84	825.07	31.65	427.56	21.84	6,498.19	7,001.84	1,606	49.8%
2011	3,165.86	2,207.46	841.83	31.65	431.81	21.84	6,700.43	7,219.69	1,643	50.2%
2012	3,283.50	2,289.80	859.96	31.65	436.06	21.84	6,922.79	7,459.12	1,680	50.2%
2013	3,388.57	2,359.23	877.74	31.65	440.30	21.84	7,119.32	7,670.91	1,718	51.0%
2014	3,504.32	2,437.36	895.05	31.65	444.55	21.84	7,334.75	7,902.98	1,757	51.3%
2015	3,624.03	2,512.92	912.00	31.65	448.80	21.84	7,551.23	8,136.16	1,796	51.7%
2016	3,754.67	2,596.86	928.24	31.65	453.04	21.84	7,786.29	8,389.27	1,835	51.7%
2017	3,871.31	2,666.94	945.60	31.65	457.29	21.84	7,994.62	8,613.79	1,875	52.4%
2018	3,999.97	2,747.19	963.26	31.65	461.54	21.84	8,225.44	8,862.43	1,916	52.8%
2019	4,132.40	2,828.35	980.15	31.65	465.79	21.84	8,460.17	9,115.28	1,957	53.2%
2020	4,278.19	2,919.00	998.04	31.65	470.03	21.84	8,718.74	9,393.70	1,998	53.2%
2021	4,419.01	2,991.30	1,015.21	31.65	474.28	21.84	8,953.29	9,646.35	2,039	54.0%
2022	4,562.95	3,064.83	1,032.92	31.65	478.53	21.84	9,192.71	9,904.26	2,081	54.3%
2023	4,712.58	3,140.15	1,051.46	31.65	482.77	21.84	9,440.44	10,171.13	2,124	54.7%
2024	4,866.69	3,216.36	1,070.57	31.65	487.02	21.84	9,694.12	10,444.39	2,167	54.5%
2025	5,025.71	3,294.35	1,090.63	31.65	491.27	21.84	9,955.45	10,725.90	2,212	55.4%
2006-25										
Growth/Yr										
2006 MW										
2025 MW										
2006.LF%										
2025.LF%										
2006-25										
Growth/Yr										
2006 MW										
2025 MW										
2006.LF%										
2025.LF%										
2006-25										
Growth/Yr										
2006 MW										
2025 MW										
2006.LF%										
2025.LF%										

**Missouri 4 CSR 240-22.030 (8) Reporting Requirements
Load Analysis and Forecasting**

(8)(D) For the net system load, the utility shall provide plots of energy usage and peak demand.

(8)(D)(1) The energy plots shall include the summer, non-summer and total energy usage for each calendar year.

(8)(D)(2) The peak demand plots shall include the summer and winter peak demands.

(8)(D)(3) The plots shall cover the historical data base period and the forecast period of at least twenty (20) years. This historical period shall include the base-case, low-case, and high-case forecasts.

(8)(D)(4) The utility shall describe how the subjective probabilities assigned to each forecast were determined.

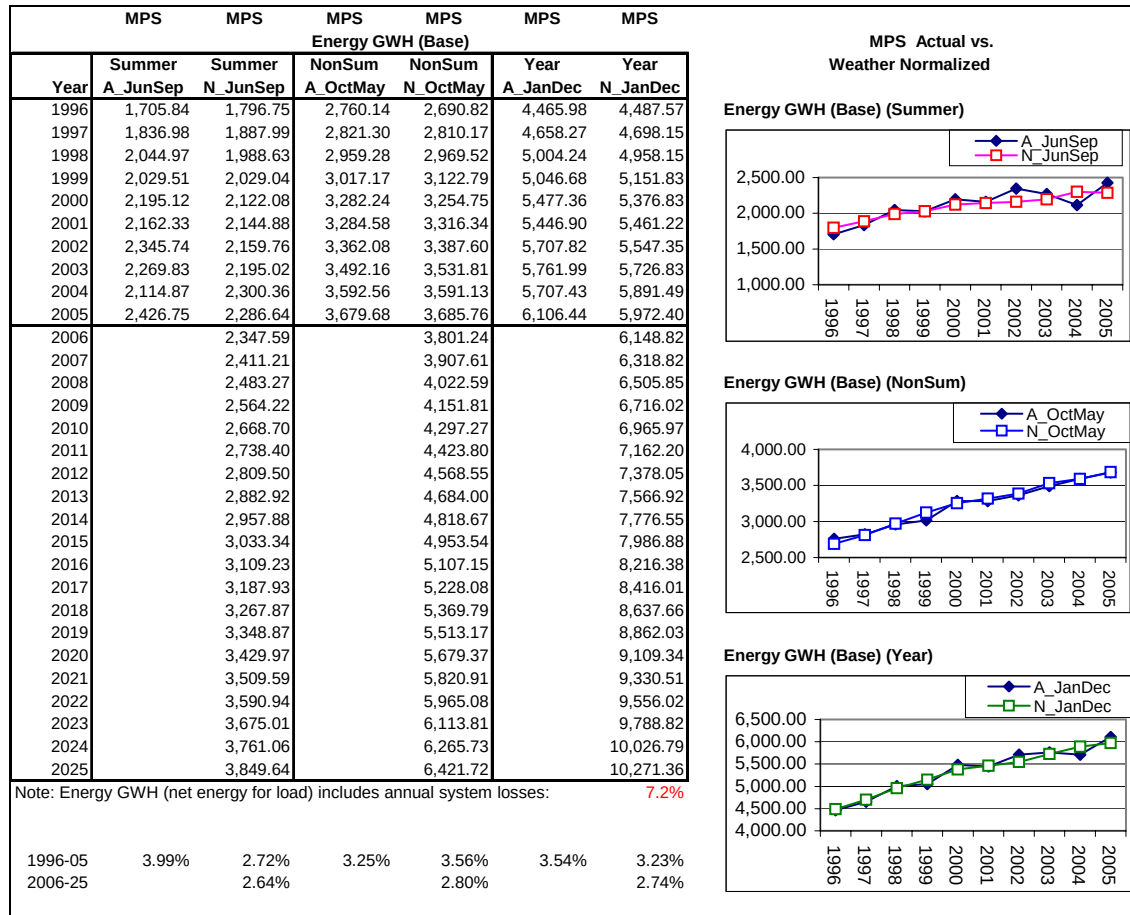
The subjective probabilities were assigned by Bob Adkins, Director-Energy Forecasting, Aquila Inc (816-467-3294), based on combined probability for scenarios of forecast driver variables, as follows:

<i>Base-case</i>	<i>50% probability</i>
<i>High-case</i>	<i>25% probability</i>
<i>Low-case</i>	<i>25% probability</i>

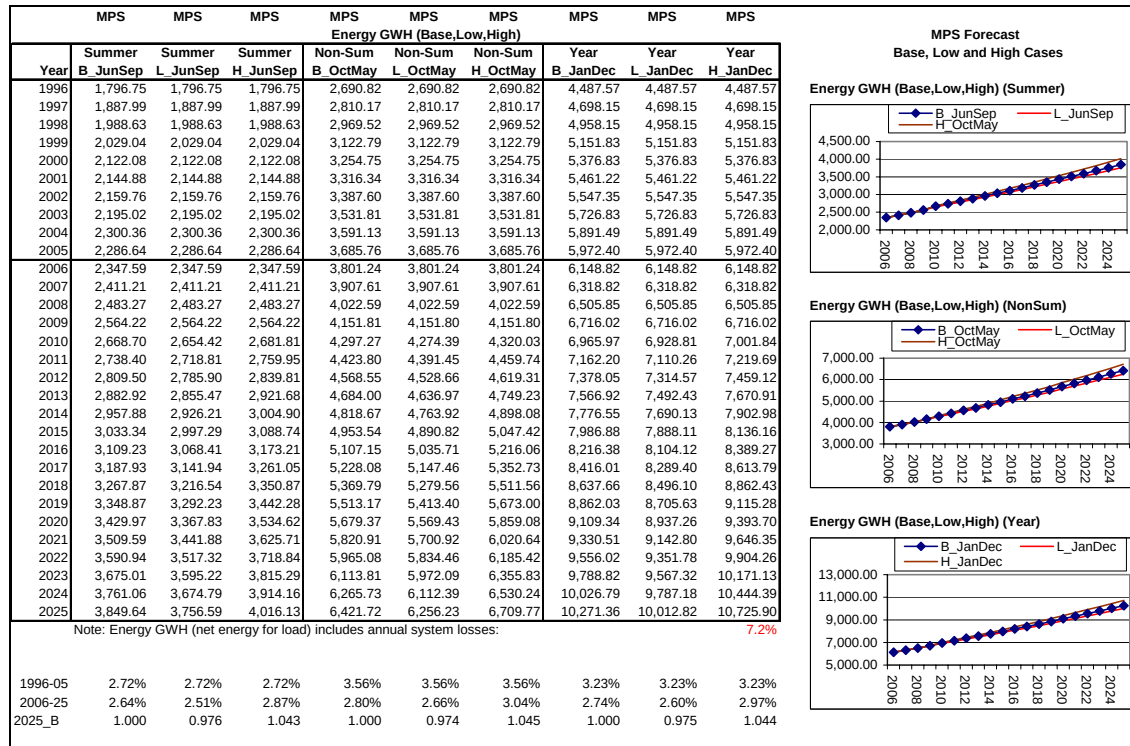
Compliance: See Plots D-73 through D-76 for base-case MPS forecast reports designed to comply with section (8)(D) reporting requirements.

Linked Files: Aquila Networks – Missouri Public Service (MPS)
8D_MPS_M2007F_SysLoad.xls

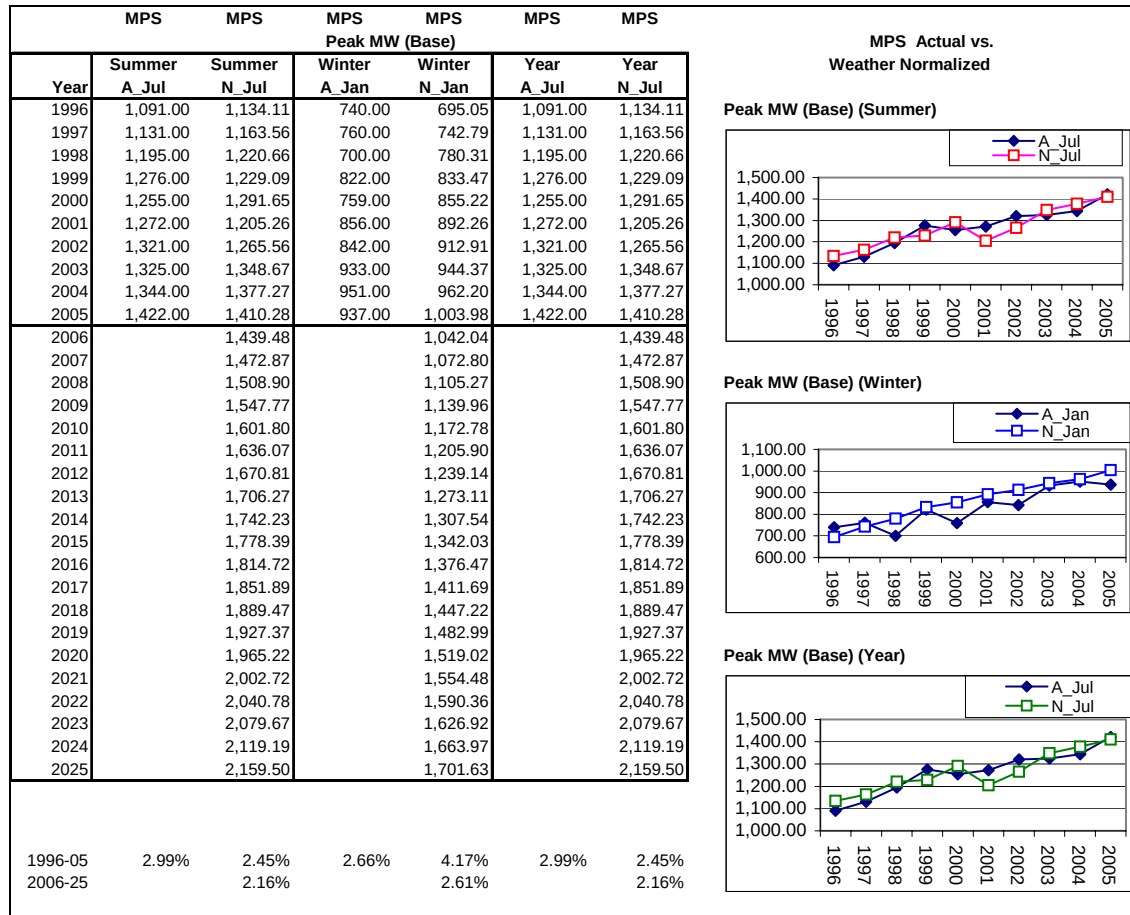
Plot D-73: MPS Energy Forecast – Base Case
(Actual and Weather Normalized)



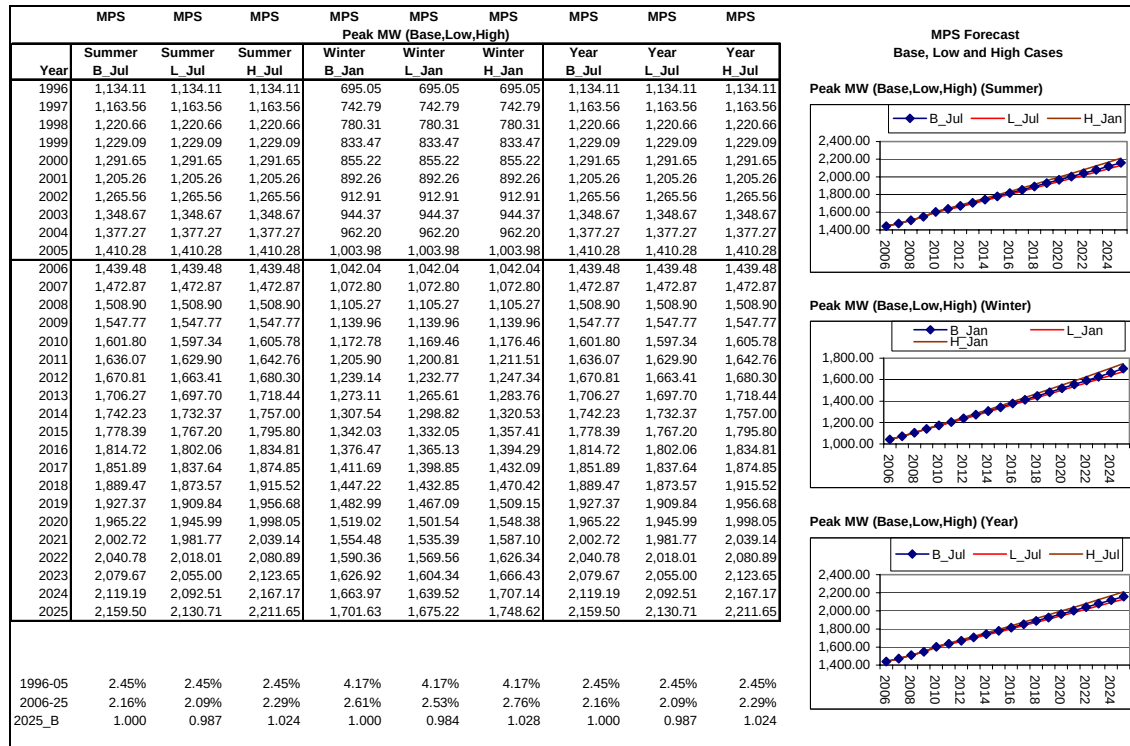
Plot D-74: MPS Energy Forecast (Base-case, Low-case, High-case)



Plot D-75: MPS Peak Demand Forecast – Base Case
(Actual and Weather Normalized)



Plot D-76: MPS Peak Demand Forecast
(Base-case, Low-case, High-case)



Missouri 4 CSR 240-22.030 (8) Reporting Requirements
Load Analysis and Forecasting

(8)(E) For each major class, the utility shall provide estimated load profile plots for the summer and winter system peak days.

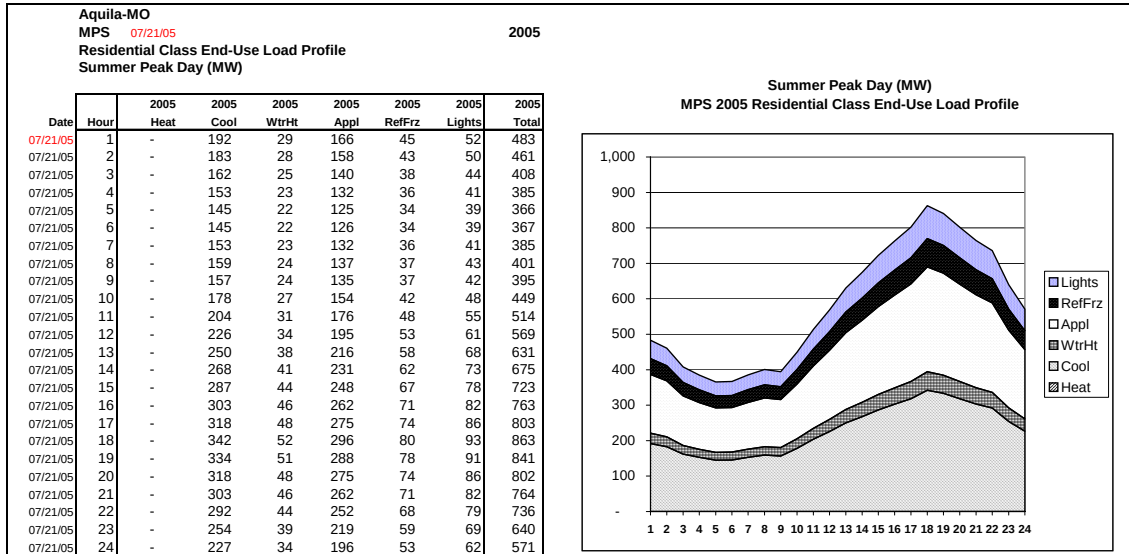
(8)(E)(1) The plots shall show each end-use component of the hourly load profile.

(8)(E)(2) The plots shall be provided for the base year of the load forecast and for the fifth, tenth and twentieth years of the forecast.

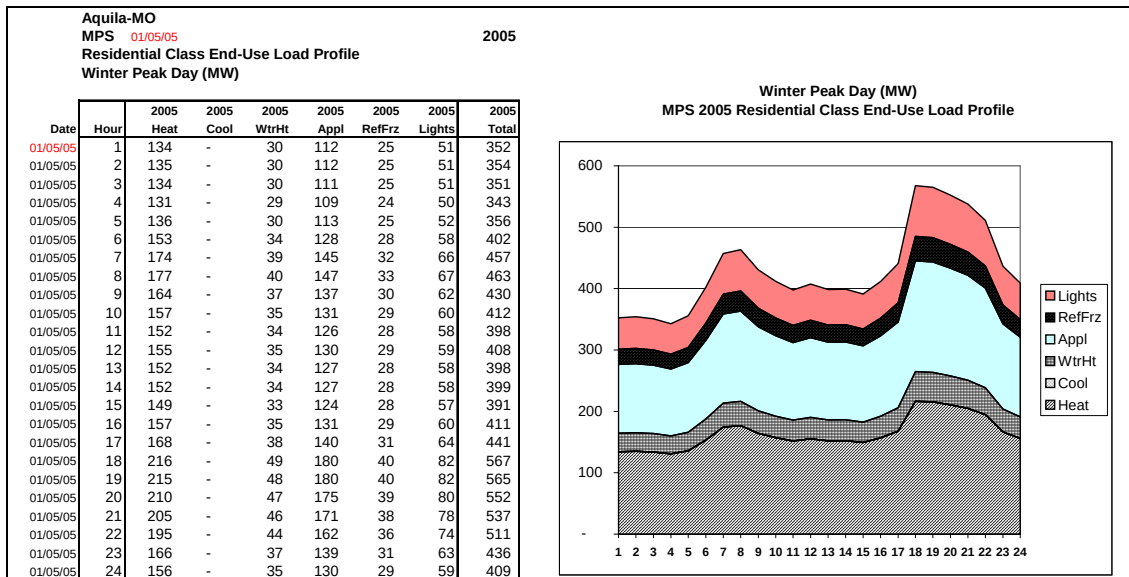
Compliance: See Plots D-77 through D-100 for base-case MPS forecast reports designed to comply with section (8)(E) reporting requirements.

Linked Files: Aquila Networks – Missouri Public Service (MPS)
8E_MPS_M2007F_ClassEndUse.xls

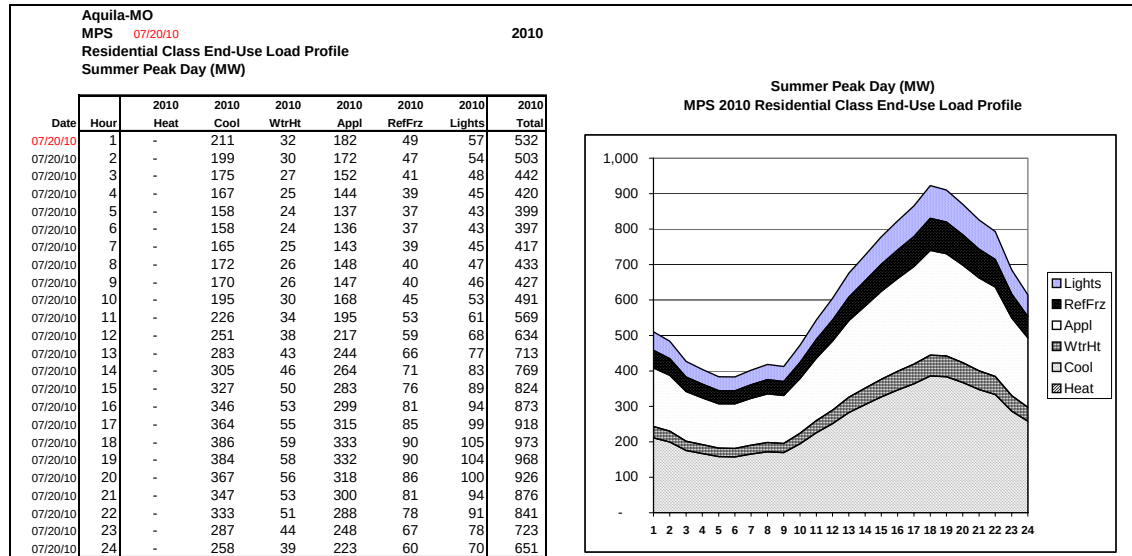
Plot D-77: MPS Residential Peak Day Loads by End-Use (Summer 2005)



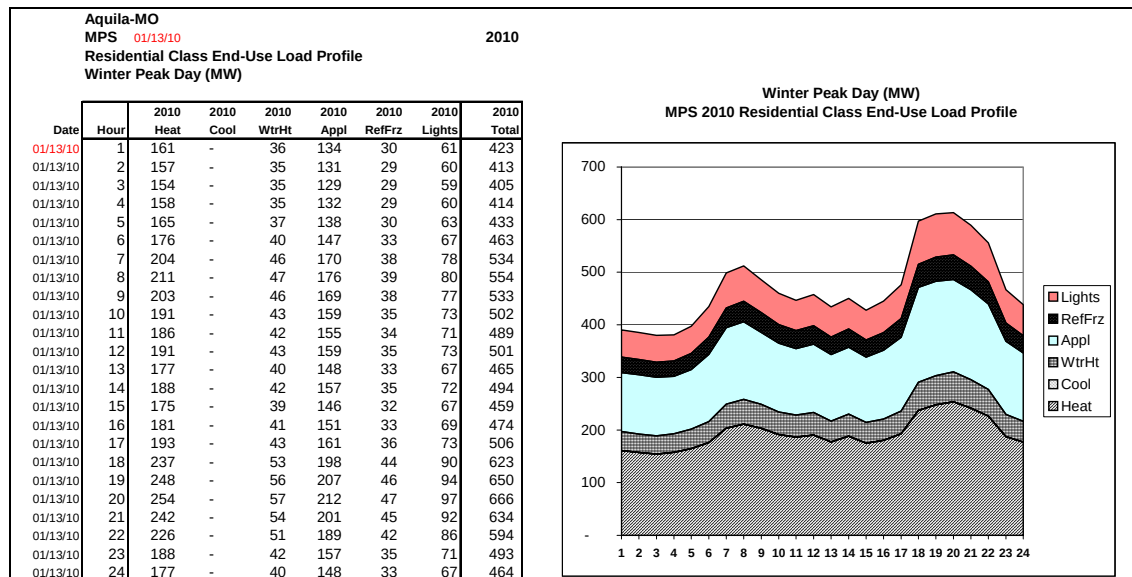
Plot D-78: MPS Residential Peak Day Loads by End-Use (Winter 2005)



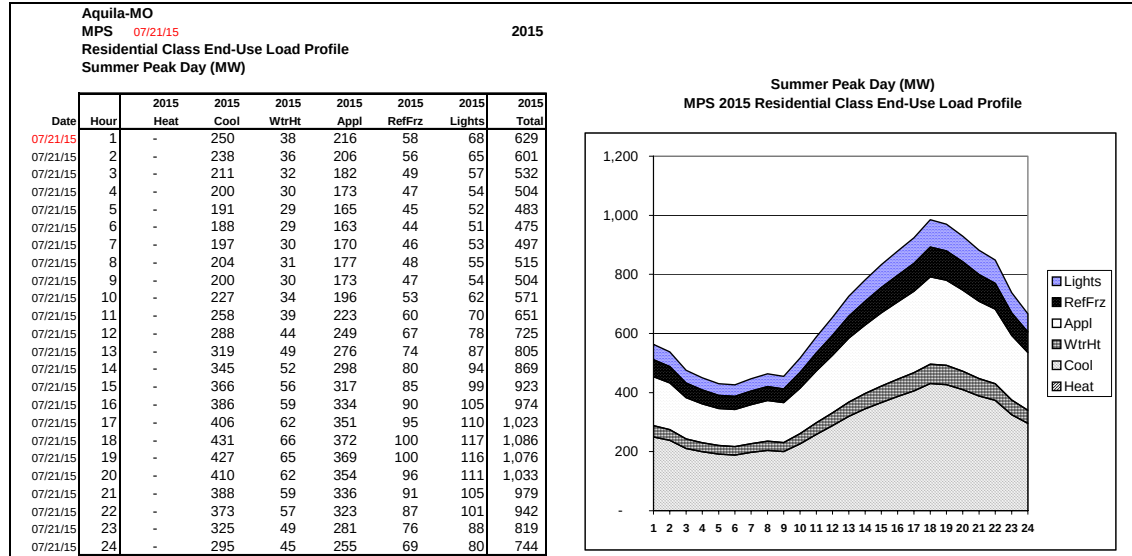
Plot D-79: MPS Residential Peak Day Loads by End-Use (Summer 2010)



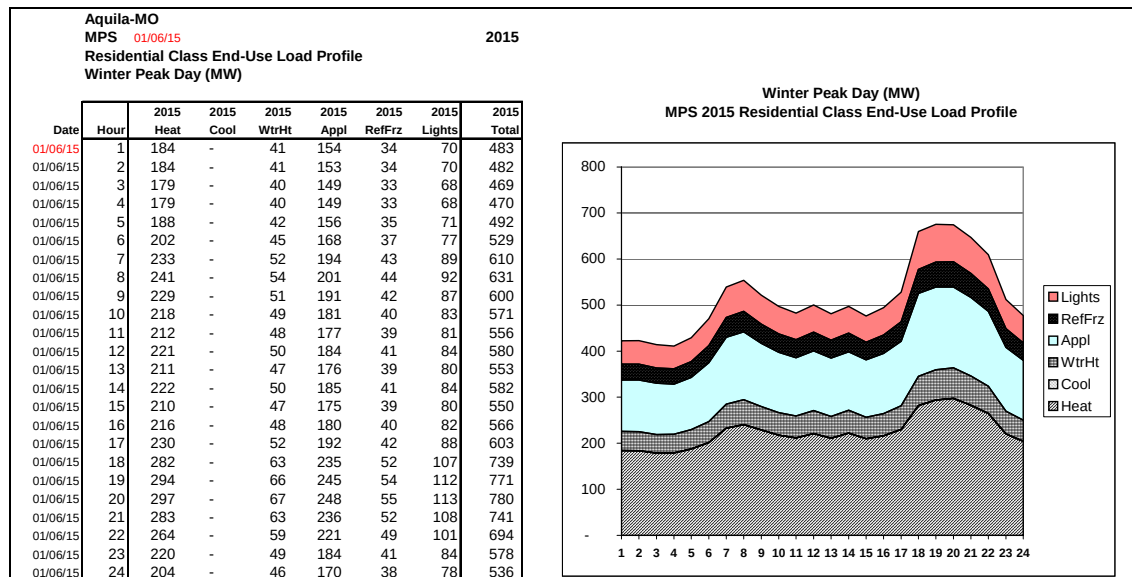
Plot D-80: MPS Residential Peak Day Loads by End-Use (Winter 2010)



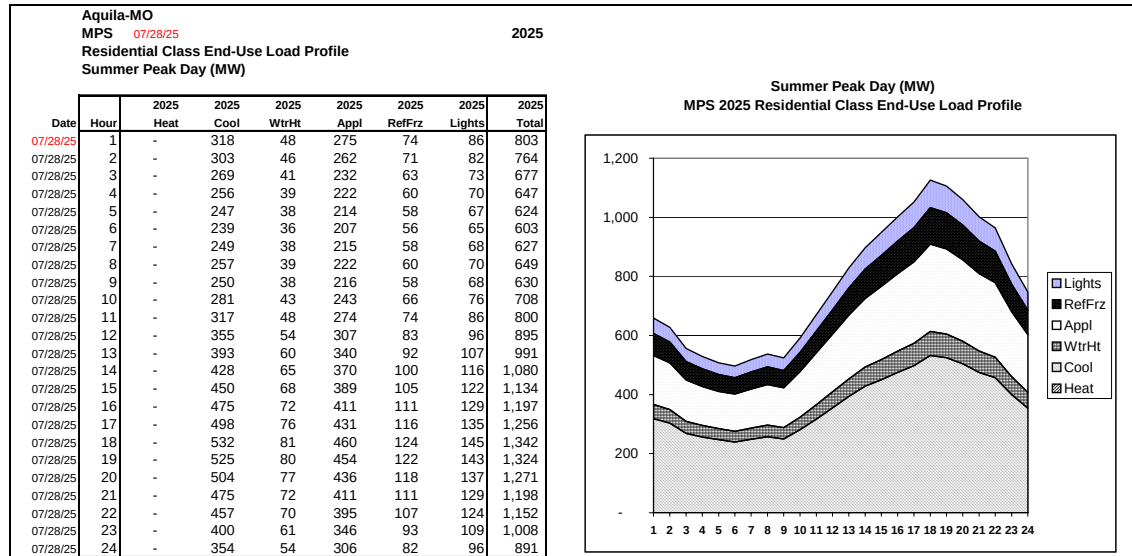
Plot D-81: MPS Residential Peak Day Loads by End-Use (Summer 2015)



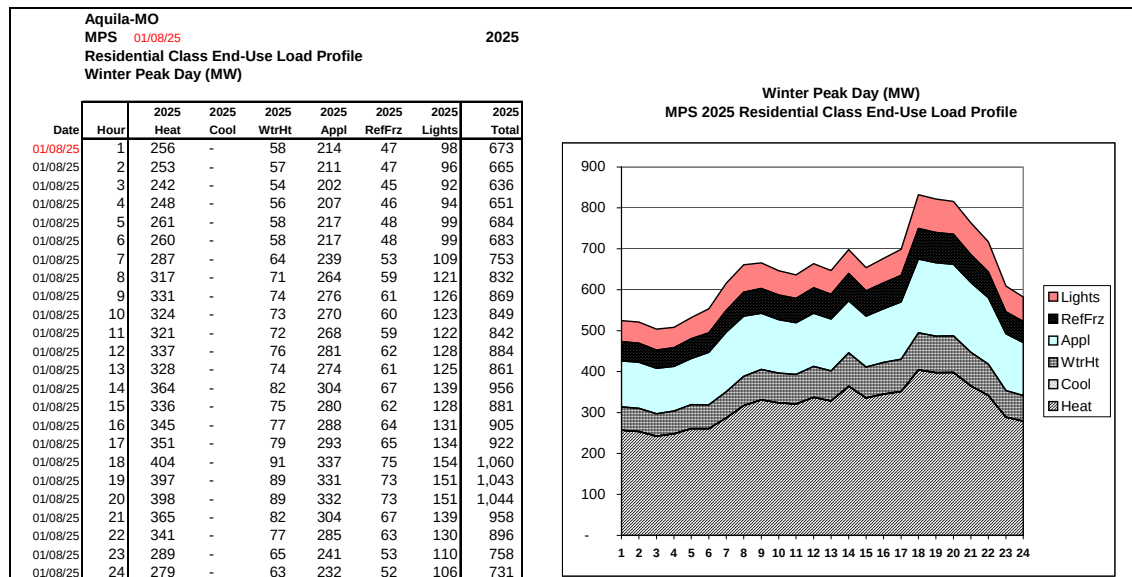
Plot D-82: MPS Residential Peak Day Loads by End-Use (Winter 2015)



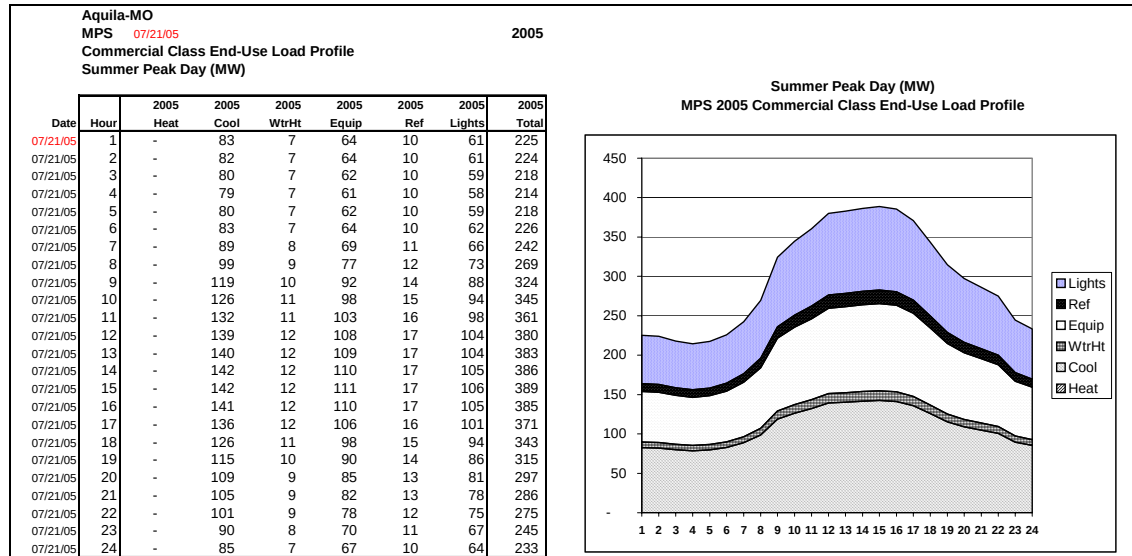
Plot D-83: MPS Residential Peak Day Loads by End-Use (Summer 2025)



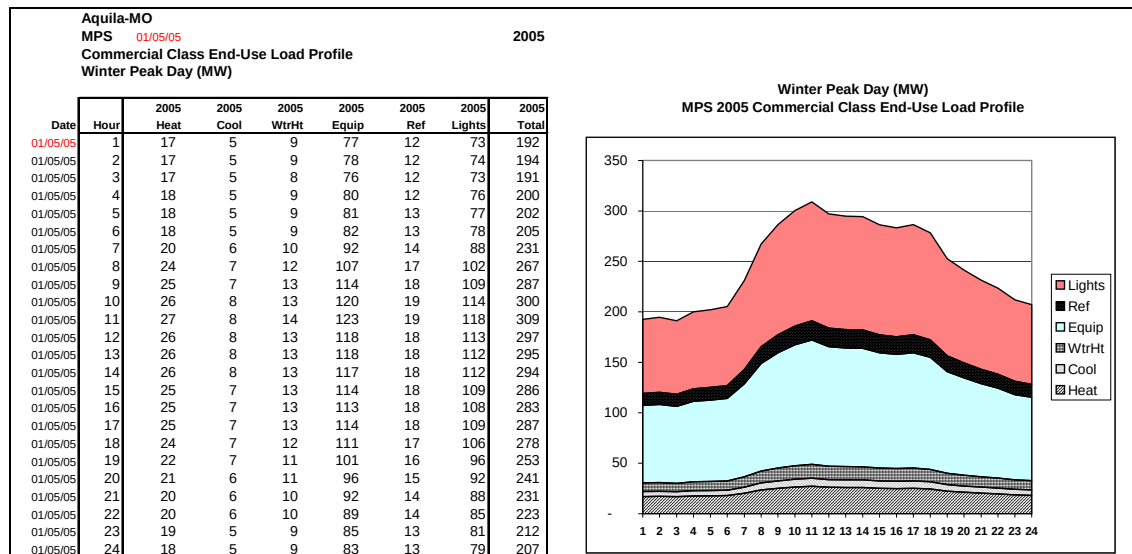
Plot D-84: MPS Residential Peak Day Loads by End-Use (Winter 2025)



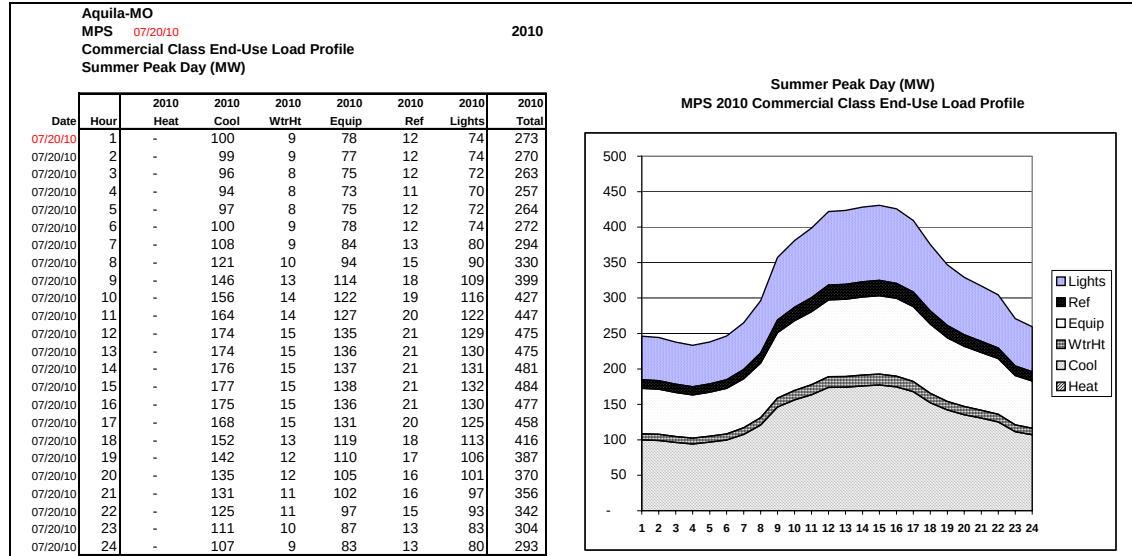
Plot D-85: MPS Commercial Peak Day Loads by End-Use (Summer 2005)



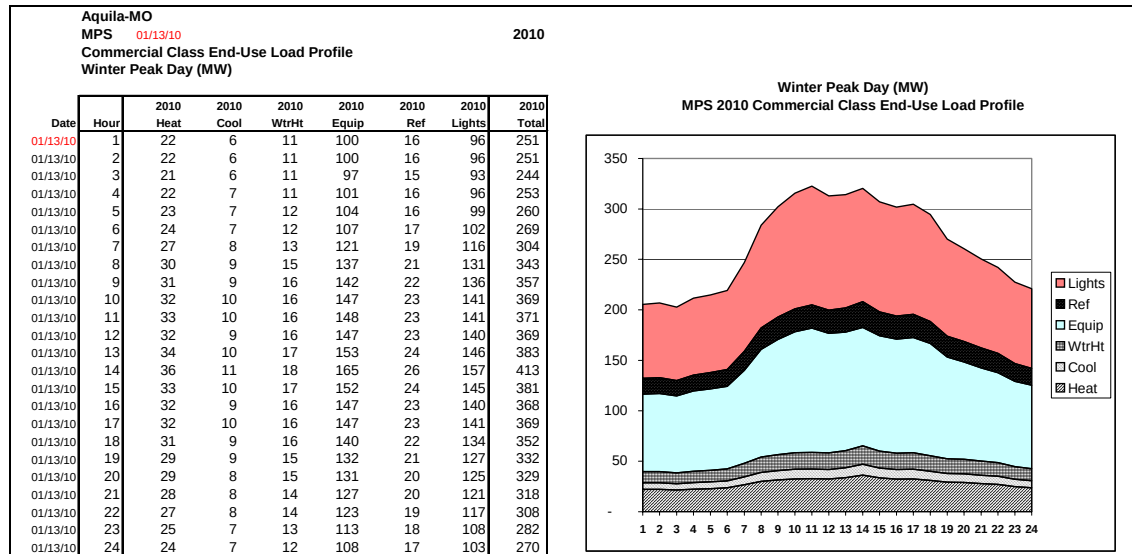
Plot D-86: MPS Commercial Peak Day Loads by End-Use (Winter 2005)



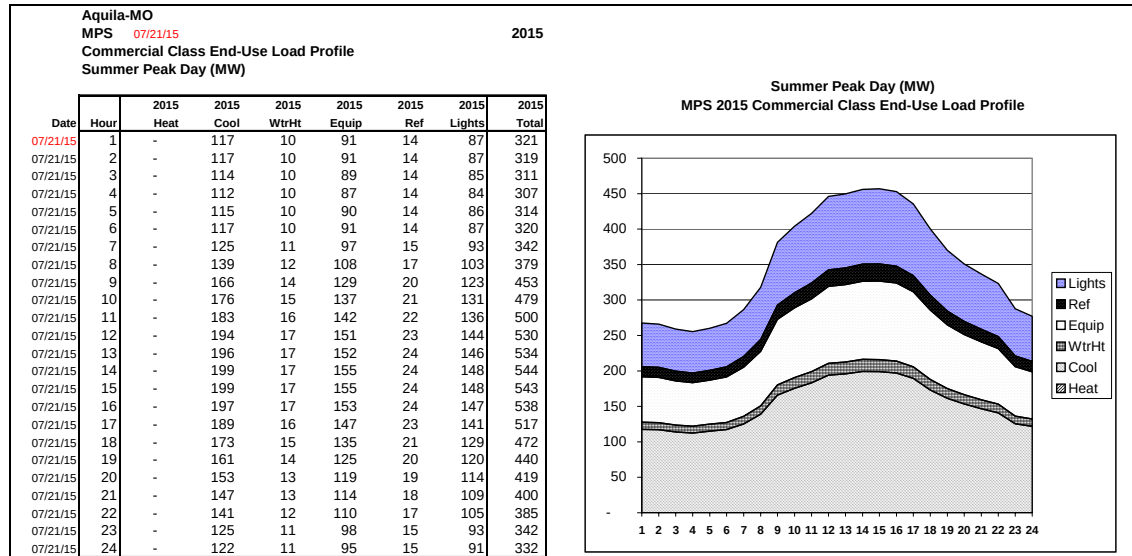
Plot D-87: MPS Commercial Peak Day Loads by End-Use (Summer 2010)



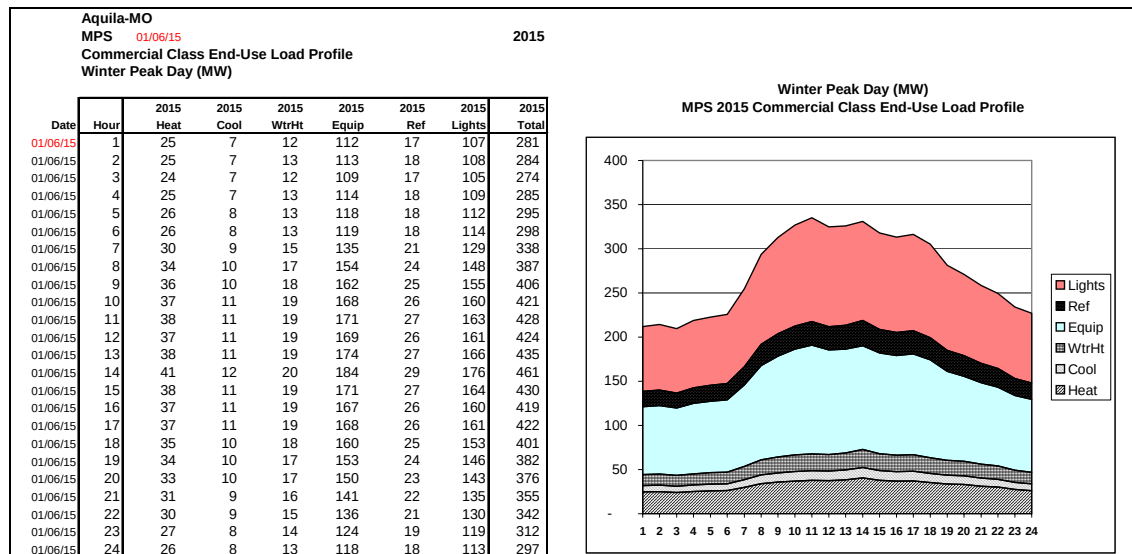
Plot D-88: MPS Commercial Peak Day Loads by End-Use (Winter 2010)



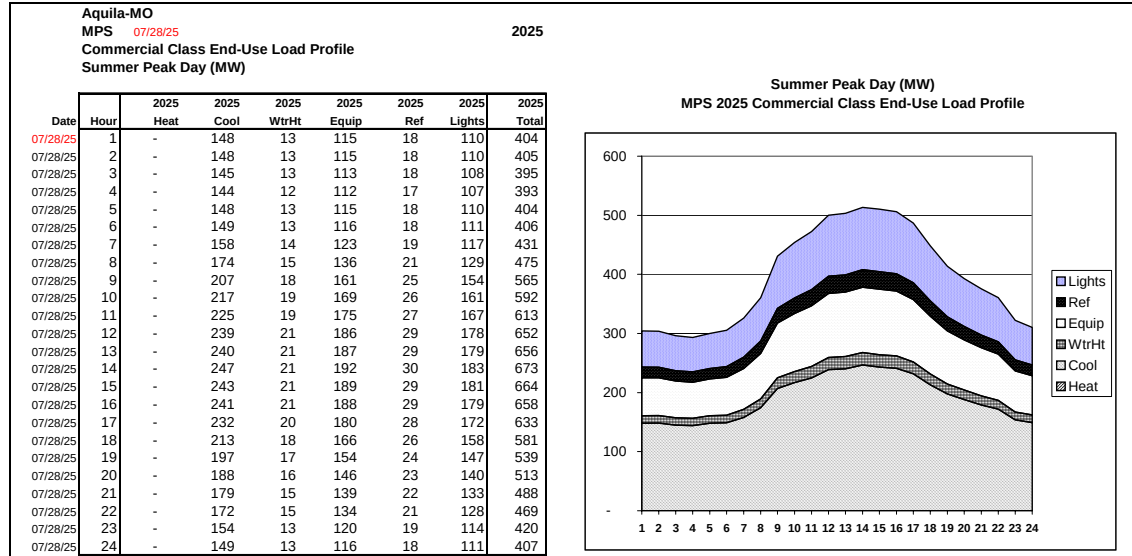
Plot D-89: MPS Commercial Peak Day Loads by End-Use (Summer 2015)



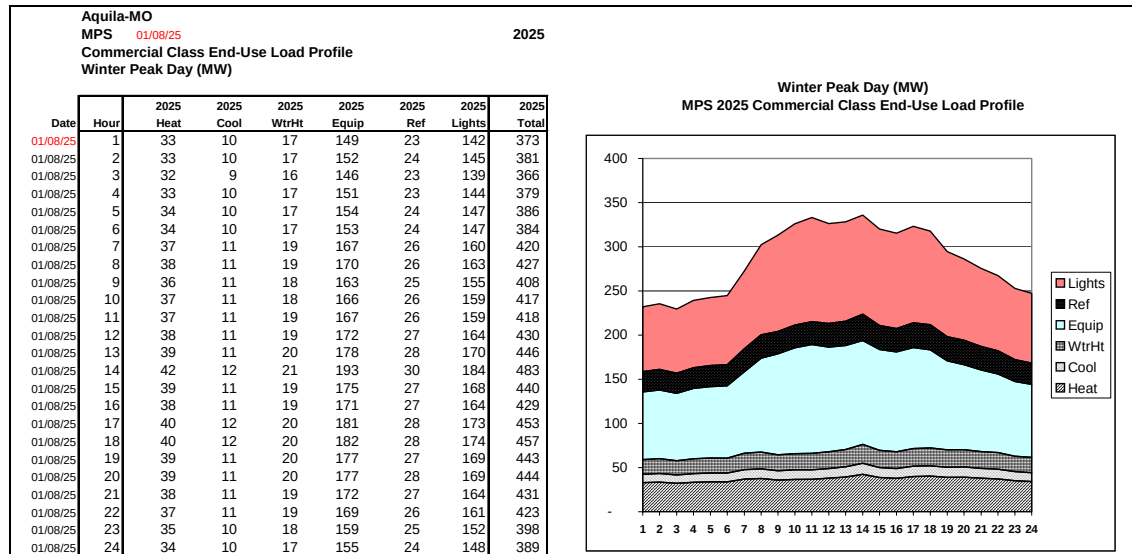
Plot D-90: MPS Commercial Peak Day Loads by End-Use (Winter 2015)



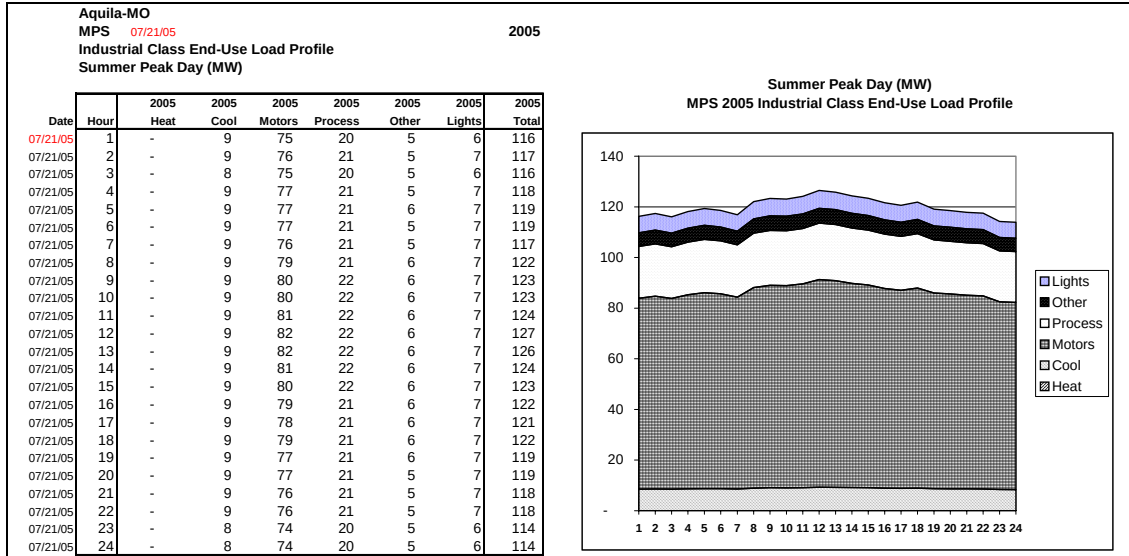
Plot D-91: MPS Commercial Peak Day Loads by End-Use (Summer 2025)



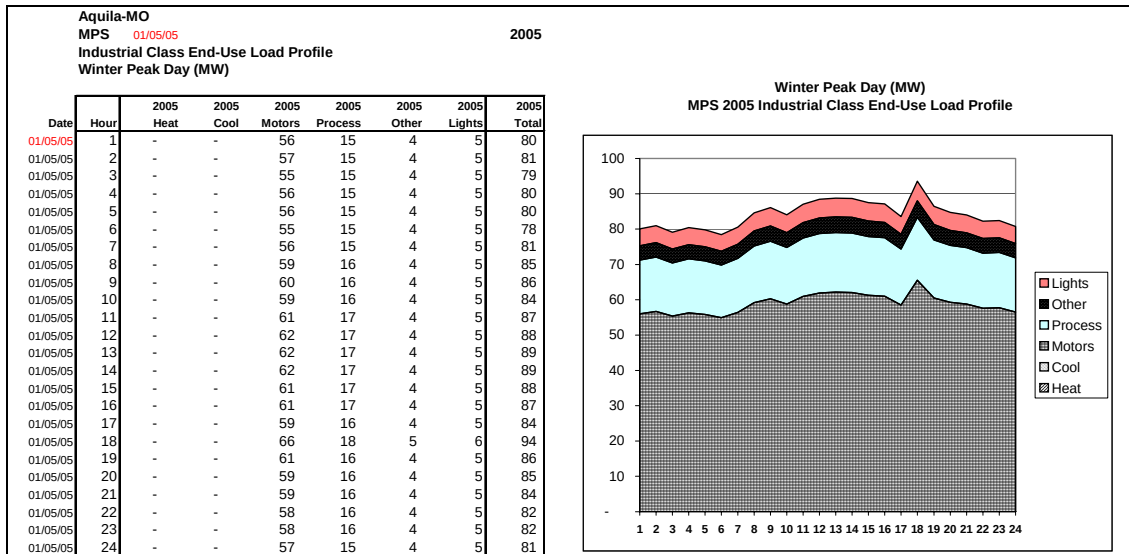
Plot D-92: MPS Commercial Peak Day Loads by End-Use (Winter 2025)



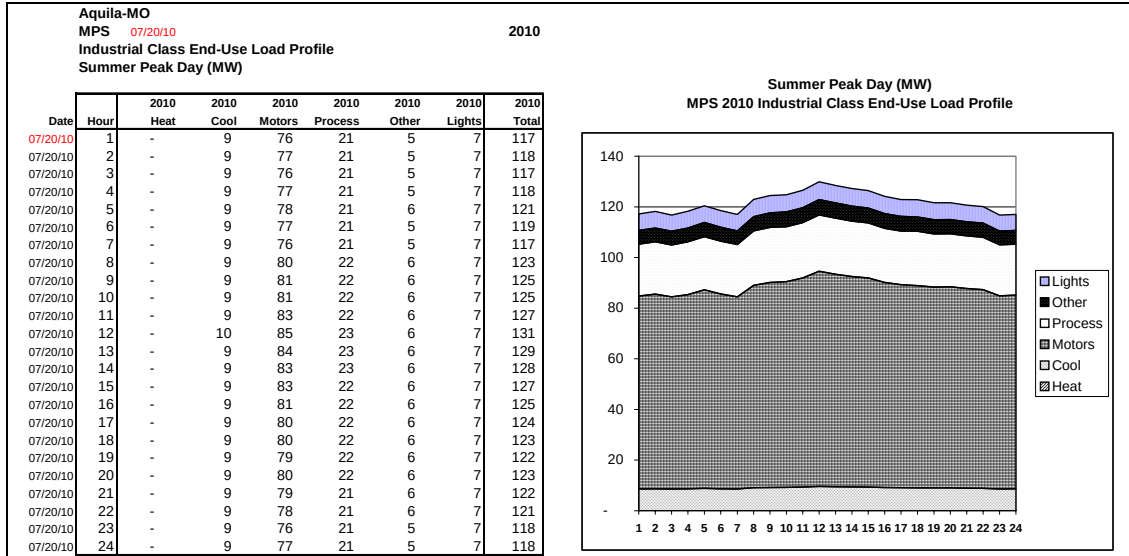
Plot D-93: MPS Industrial Peak Day Loads by End-Use (Summer 2005)



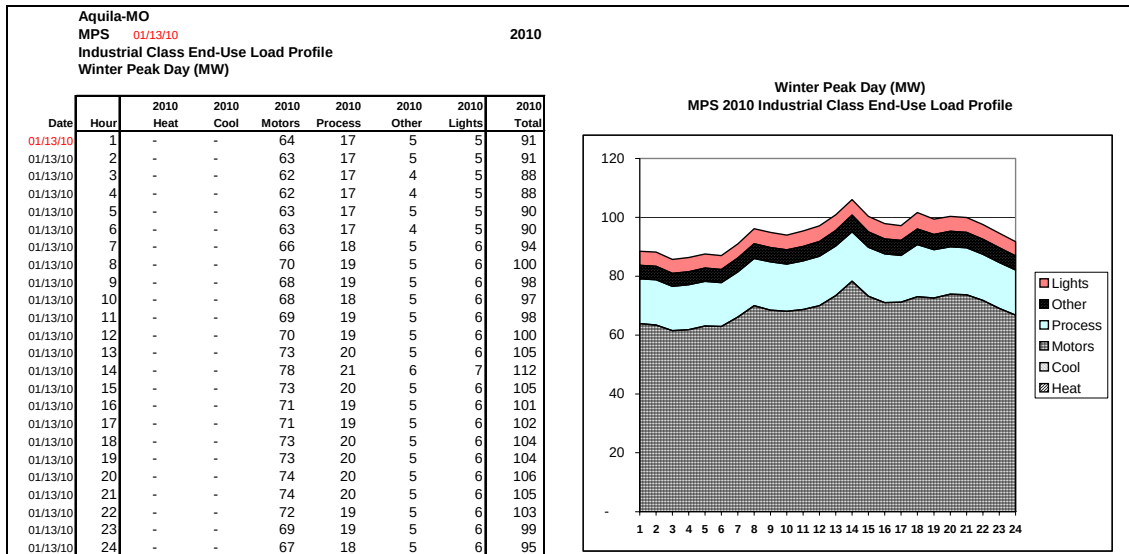
Plot D-94: MPS Industrial Peak Day Loads by End-Use (Winter 2005)



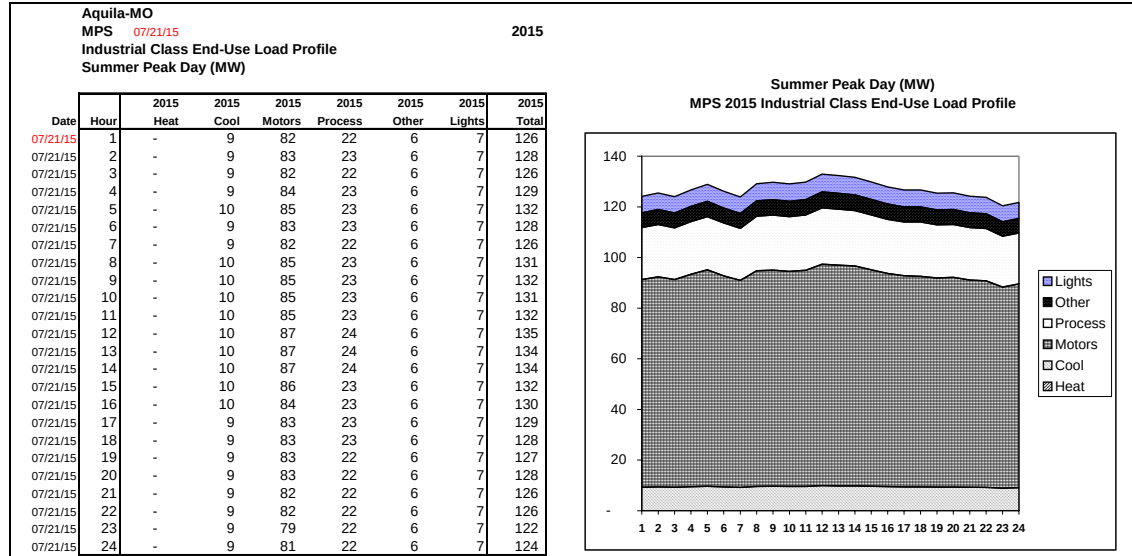
Plot D-95: MPS Industrial Peak Day Loads by End-Use (Summer 2010)



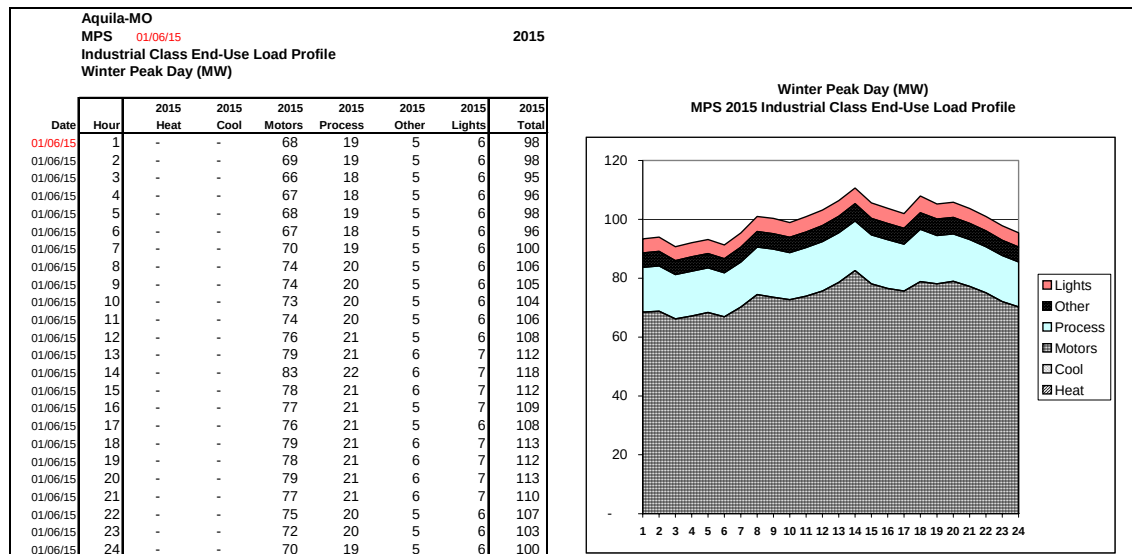
Plot D-96: MPS Industrial Peak Day Loads by End-Use (Winter 2010)



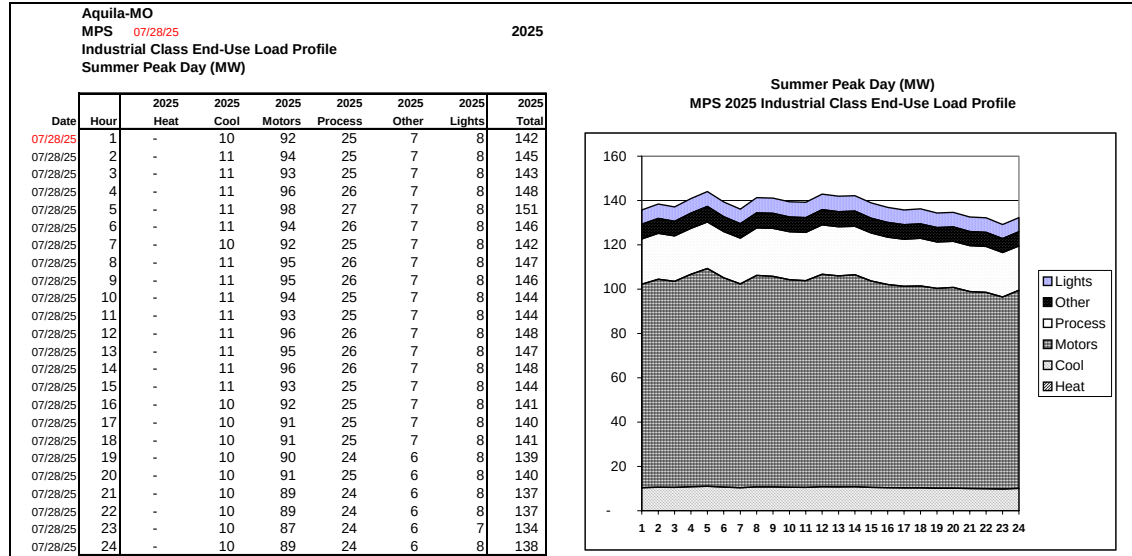
Plot D-97: MPS Industrial Peak Day Loads by End-Use (Summer 2015)



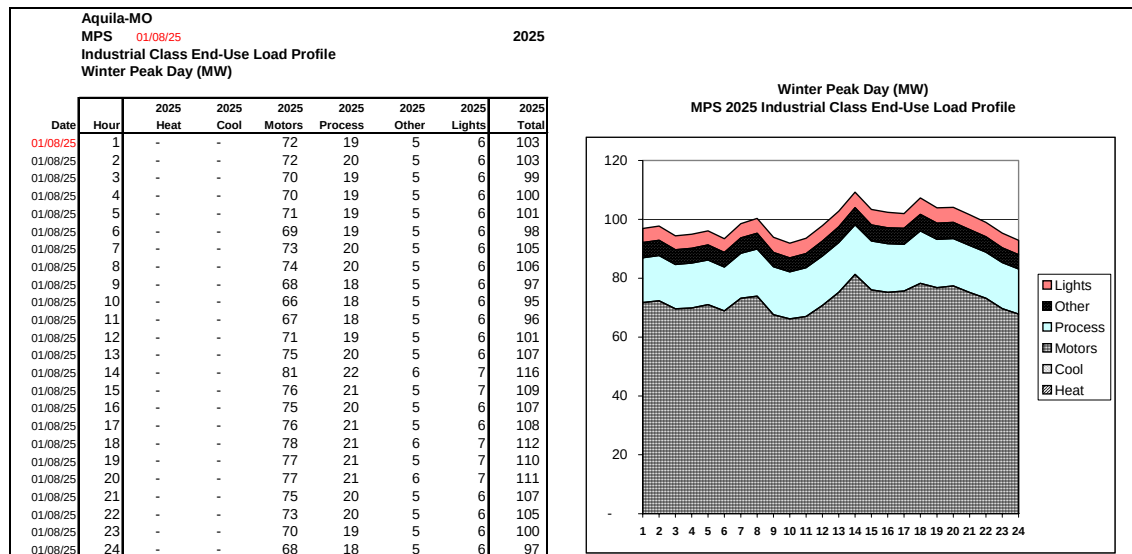
Plot D-98: MPS Industrial Peak Day Loads by End-Use (Winter 2015)



Plot D-99: MPS Industrial Peak Day Loads by End-Use (Summer 2025)



Plot D-100: MPS Industrial Peak Day Loads by End-Use (Winter 2025)



**Missouri 4 CSR 240-22.030 (8) Reporting Requirements
Load Analysis and Forecasting**

(8)(F) For the net system load profiles, the utility shall provide plots for the summer peak day and the winter peak day..

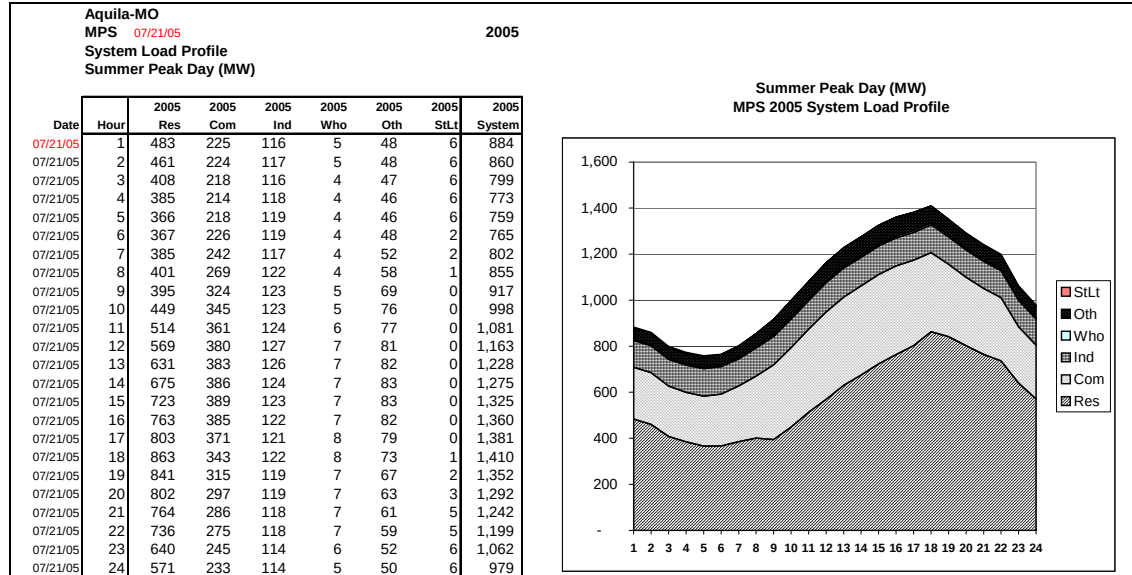
(8)(F)(1) The plots shall show each of the major class components of the net system load profile in a cumulative manner.

(8)(F)(2) The plots shall be provided for the base year of the load forecast and for the fifth, tenth and twentieth years of the forecast.

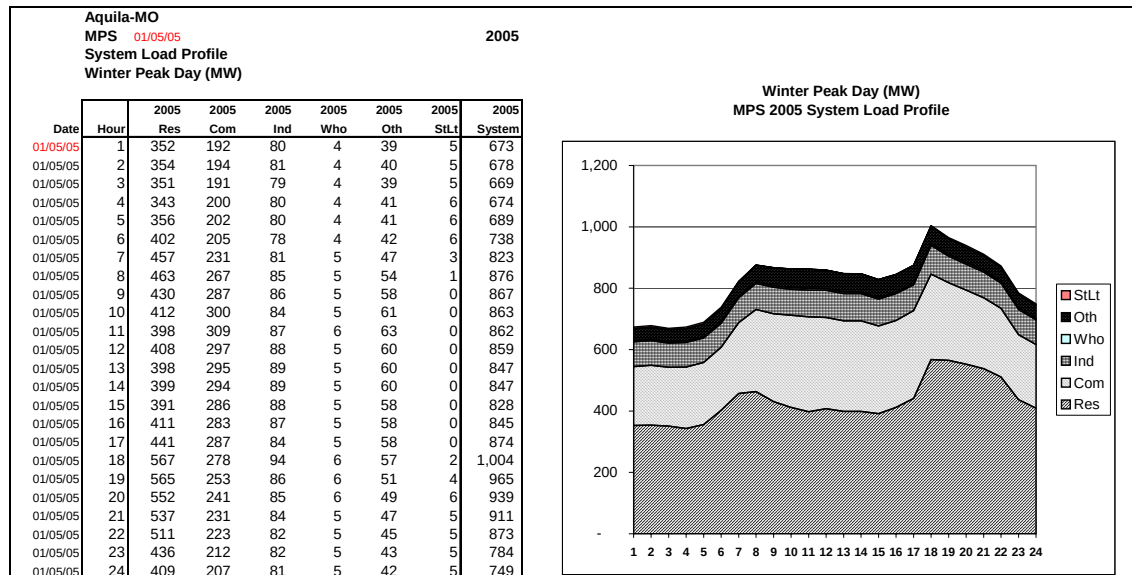
Compliance: See Plots D-101 through D-108 for base-case MPS forecast reports designed to comply with section (8)(F) reporting requirements.

Linked Files: Aquila Networks – Missouri Public Service (MPS)
8F_MPS_M2007F_ClassLoads.xls

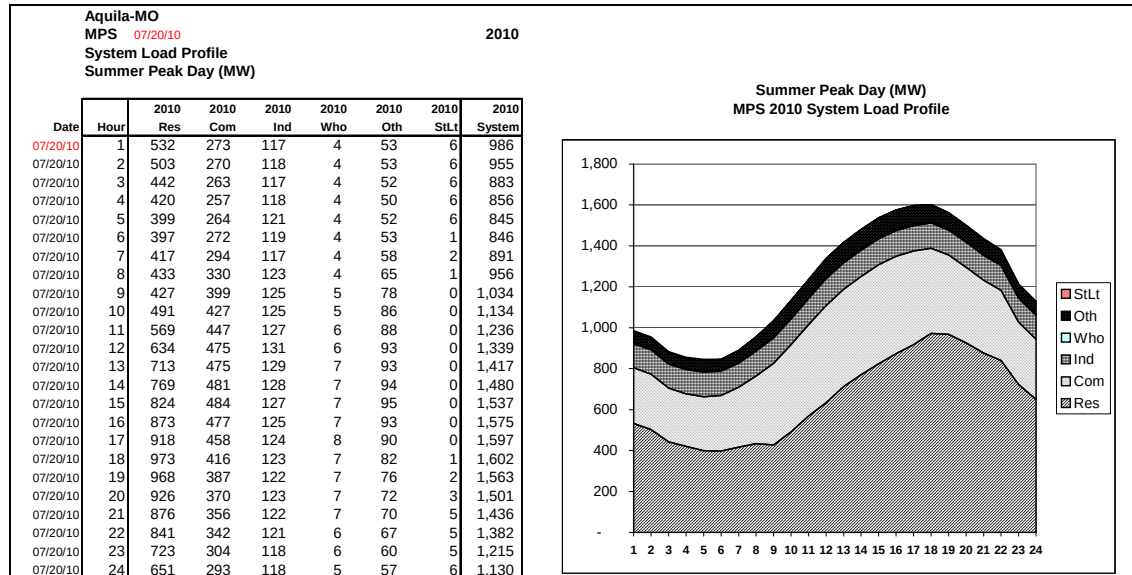
Plot D-101: MPS System Peak Day Loads by Class (Summer 2005)



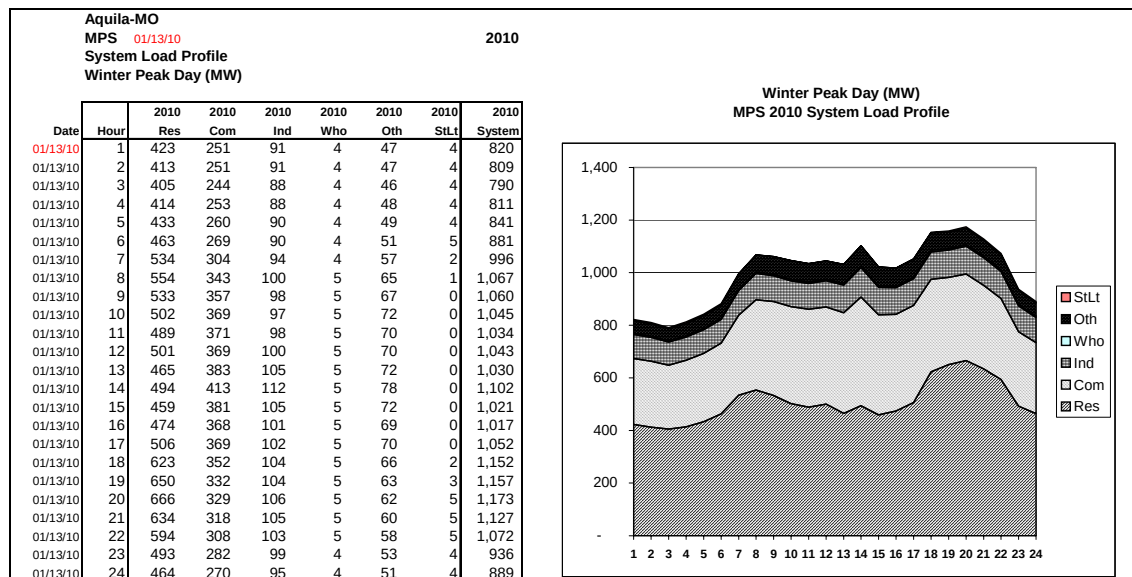
Plot D-102: MPS System Peak Day Loads by Class (Winter 2005)



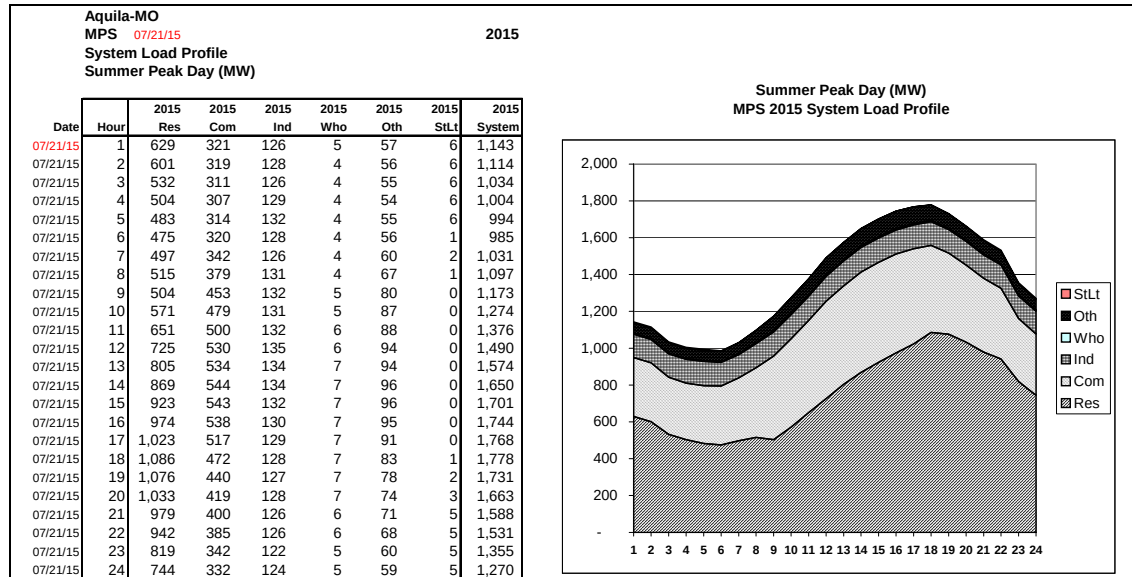
Plot D-103: MPS System Peak Day Loads by Class (Summer 2010)



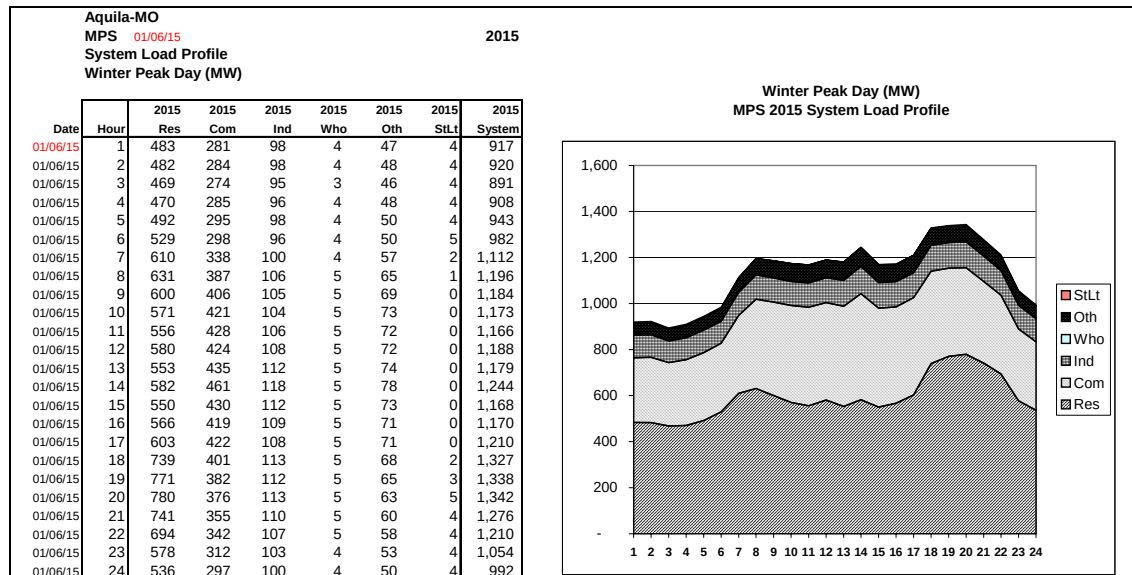
Plot D-104: MPS System Peak Day Loads by Class (Winter 2010)



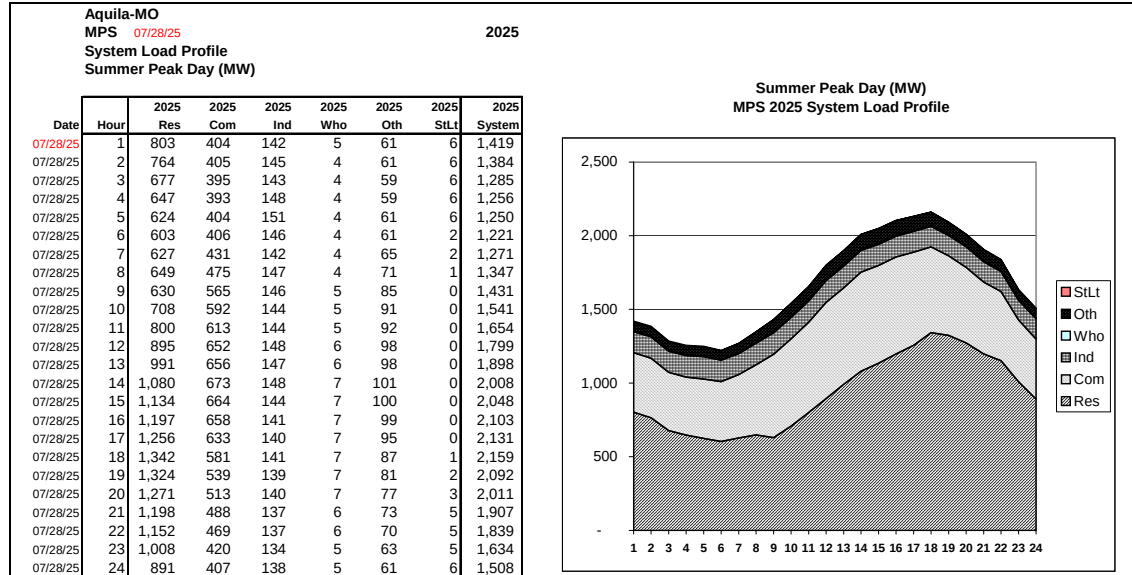
Plot D-105: MPS System Peak Day Loads by Class (Summer 2015)



Plot D-106: MPS System Peak Day Loads by Class (Winter 2015)



Plot D-107: MPS System Peak Day Loads by Class (Summer 2025)



Plot D-108: MPS System Peak Day Loads by Class (Winter 2025)

