

Part 1 - Appendix E
SJLP 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.

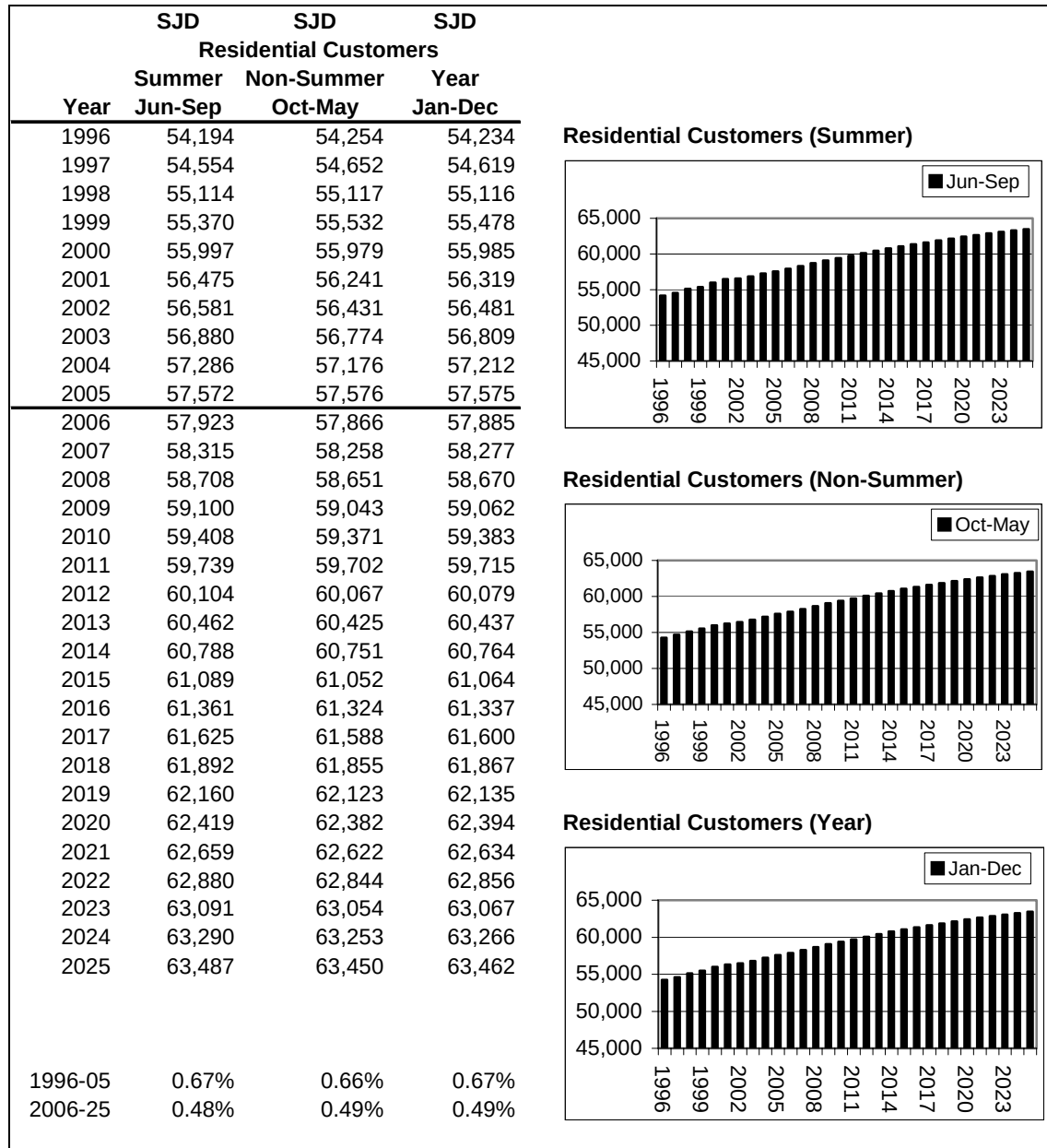
(8)(A)(2.A) The historical period shall include both actual and weather normalized energy usage per unit and total class energy usage.

(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.

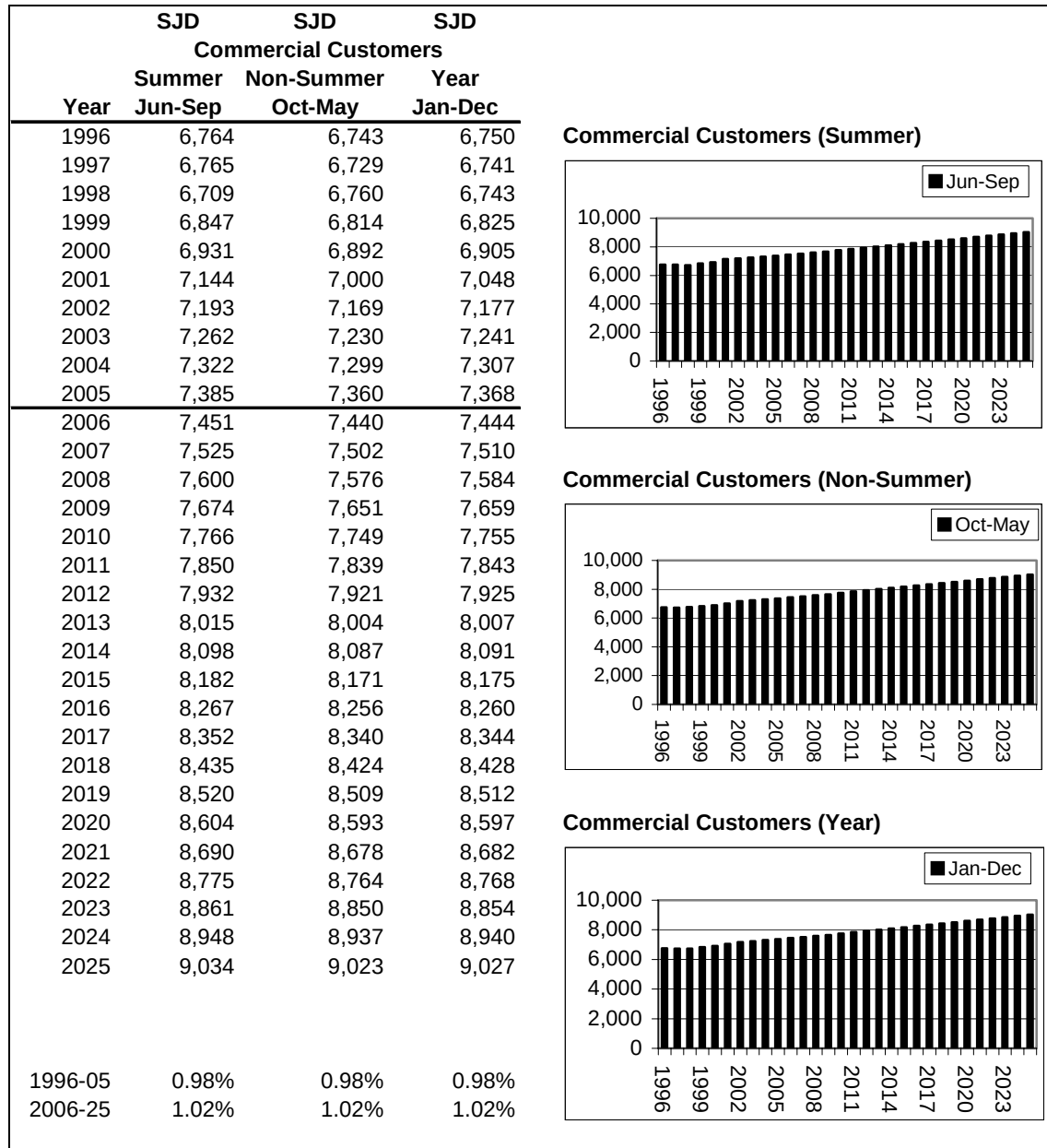
Compliance: See Plots E-1 through E-35 for base-case SJLP forecast reports designed to comply with section (8)(A) reporting requirements.

Linked Files: Aquila Networks – St. Joseph Light & Power (SJLP)
8A_SJD_M2007F_Sales_B.xls

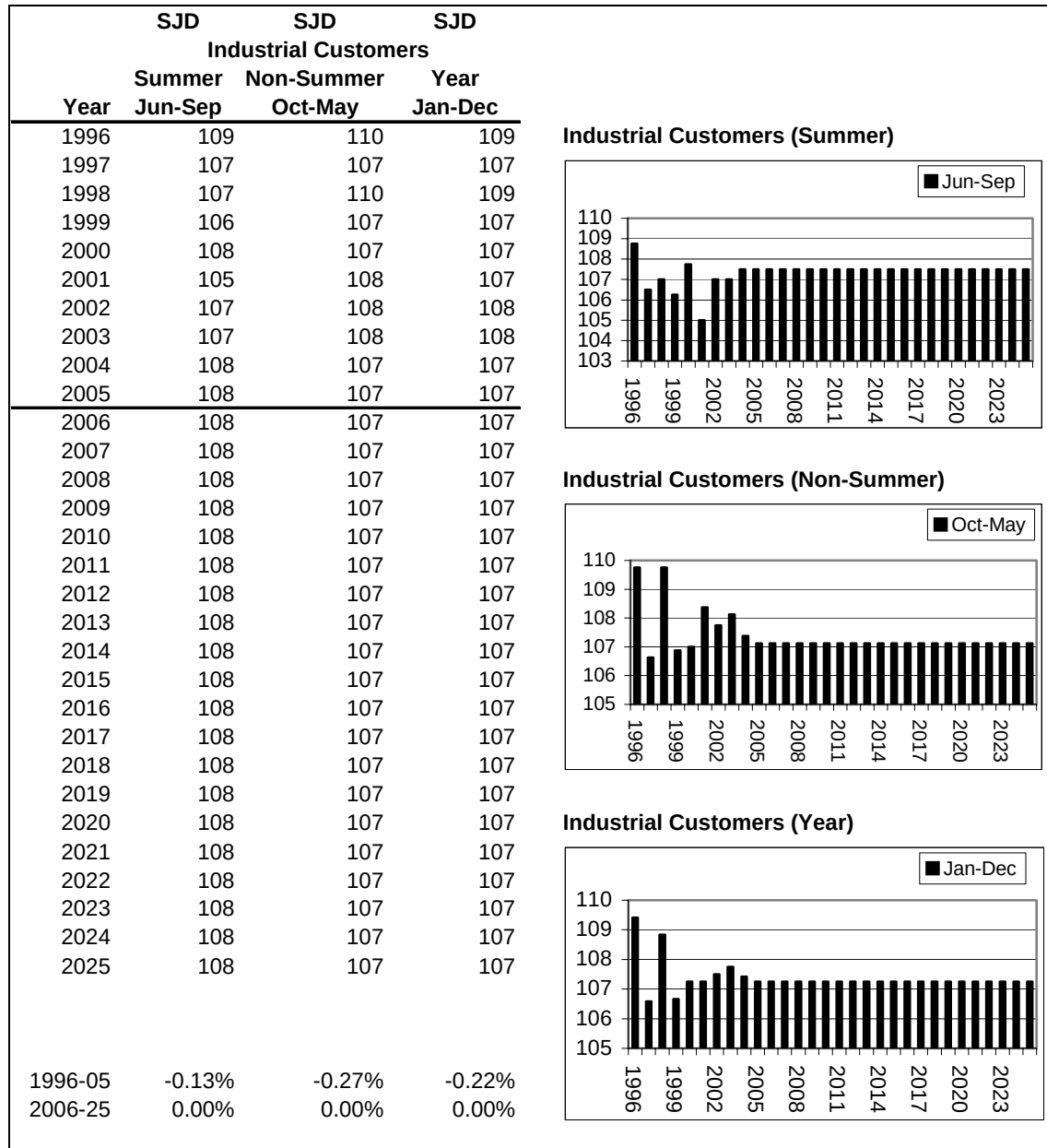
Plot E-1: SJD Residential Customers



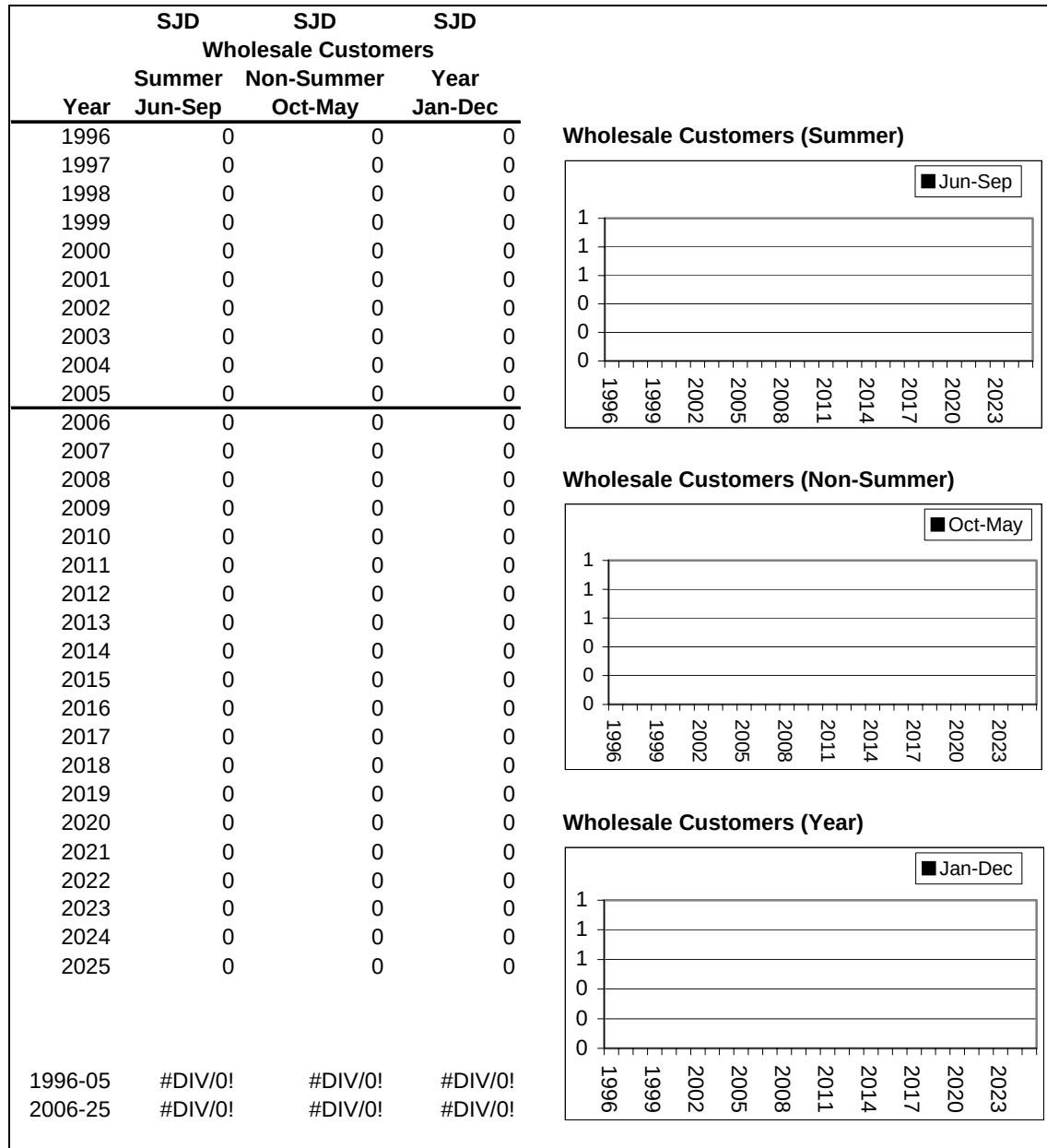
Plot E-2: SJD Commercial Customers



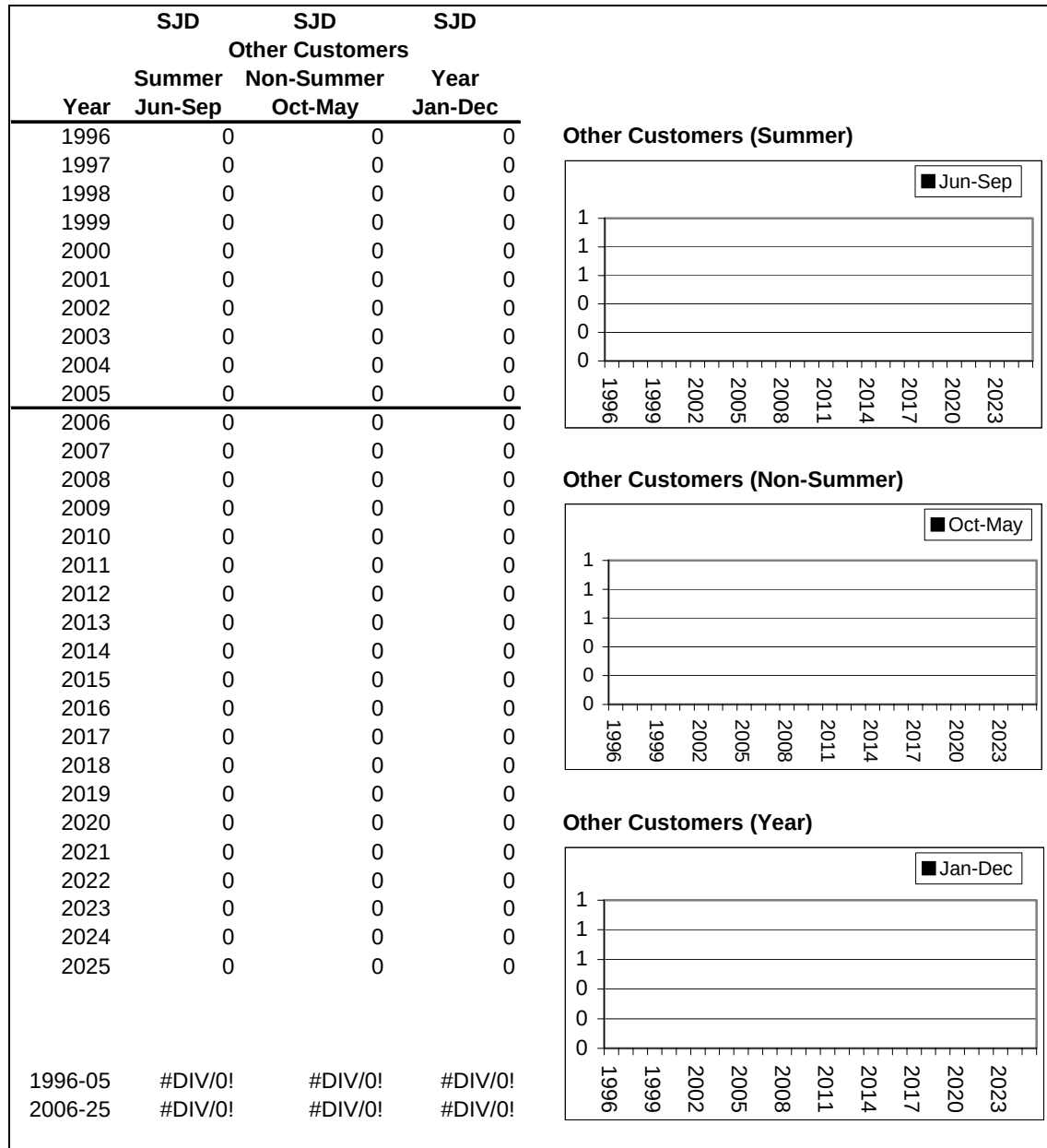
Plot E-3: SJD Industrial Customers



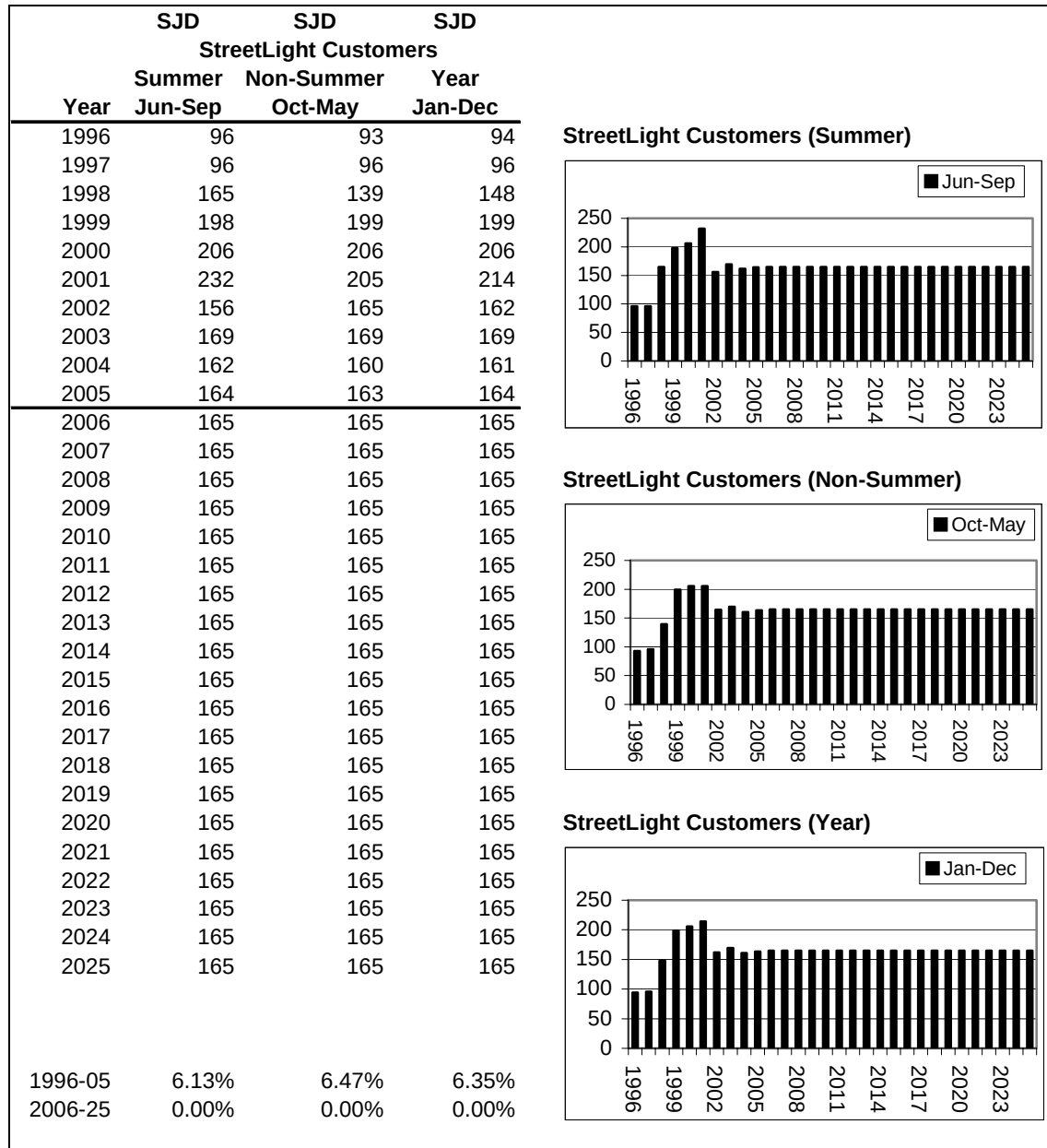
Plot E-4: SJD Wholesale Customers



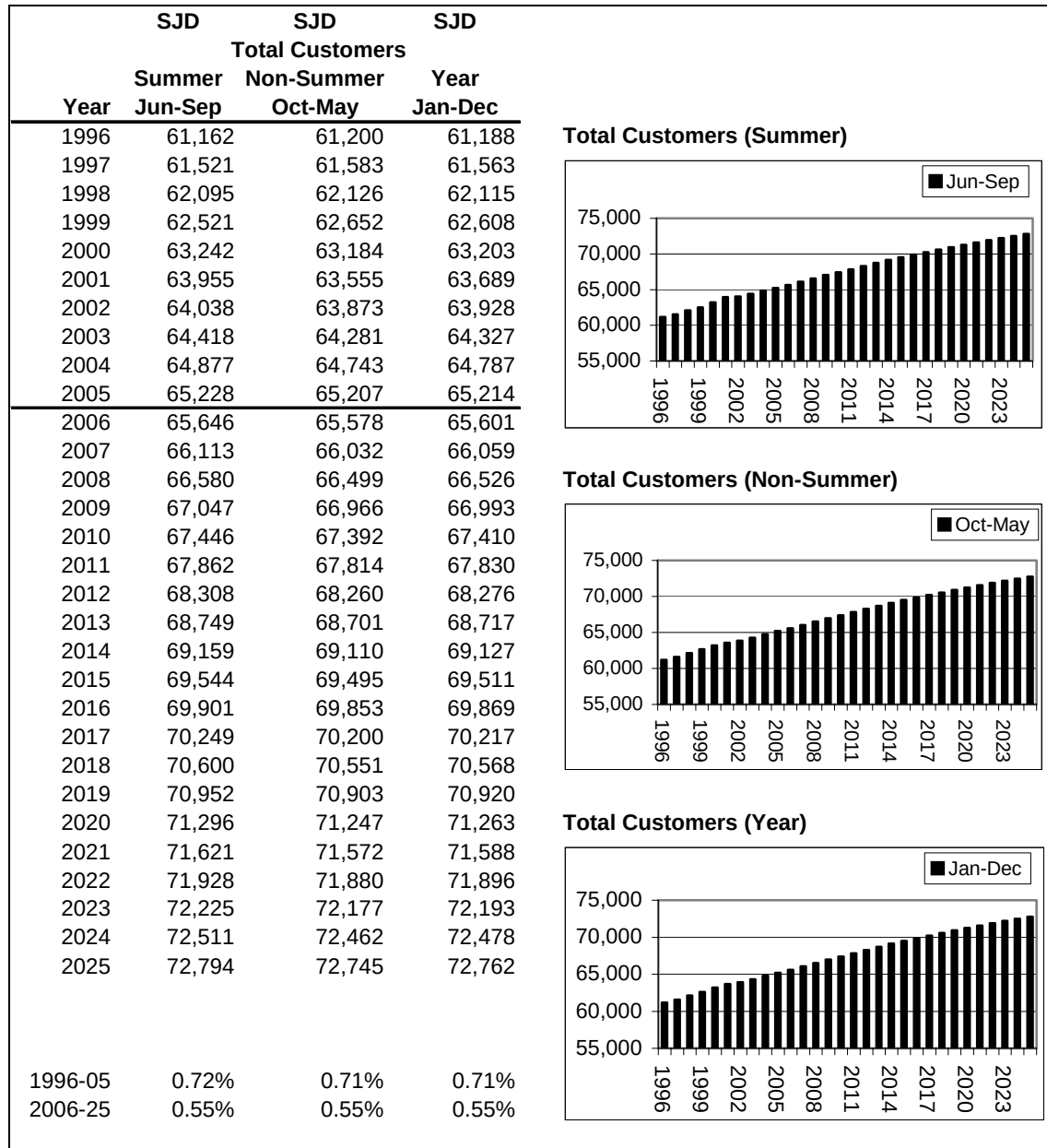
Plot E-5: SJD Other Customers

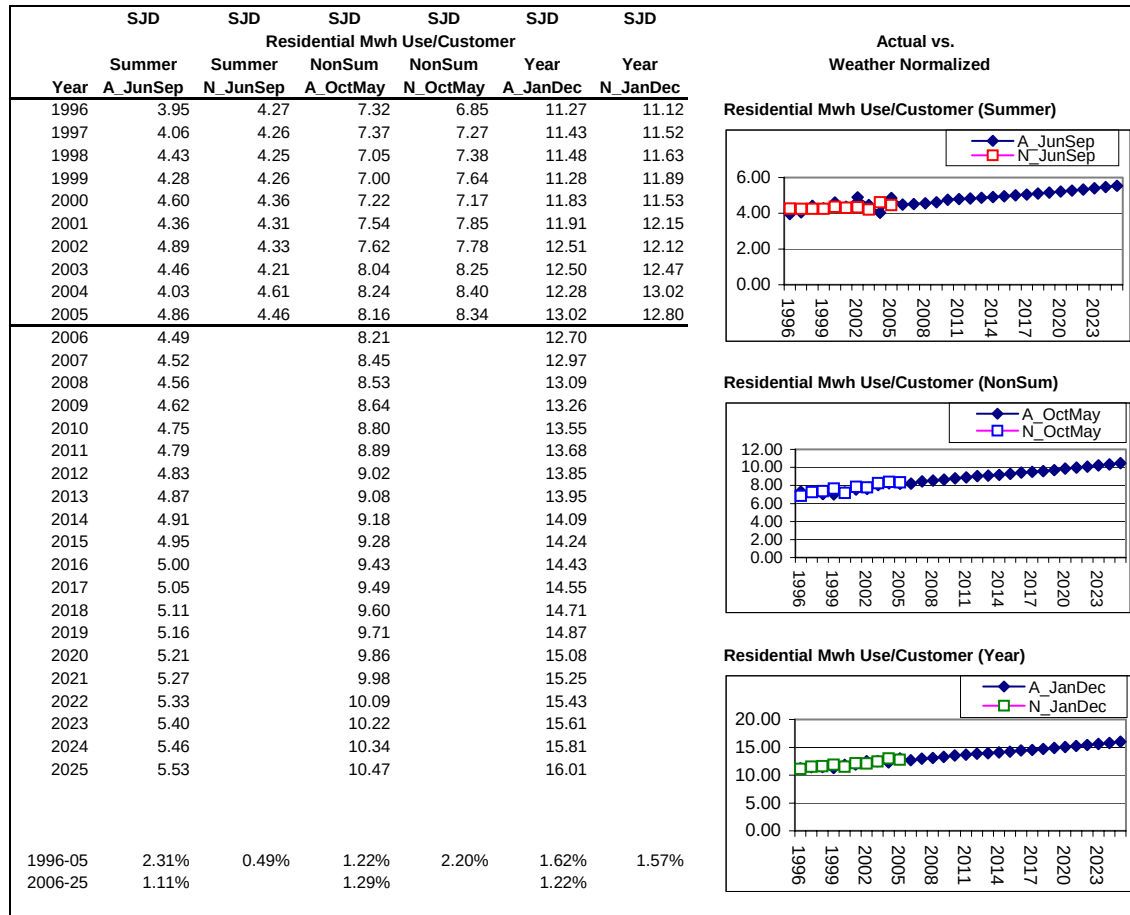


Plot E-6: SJD StreetLight Customers

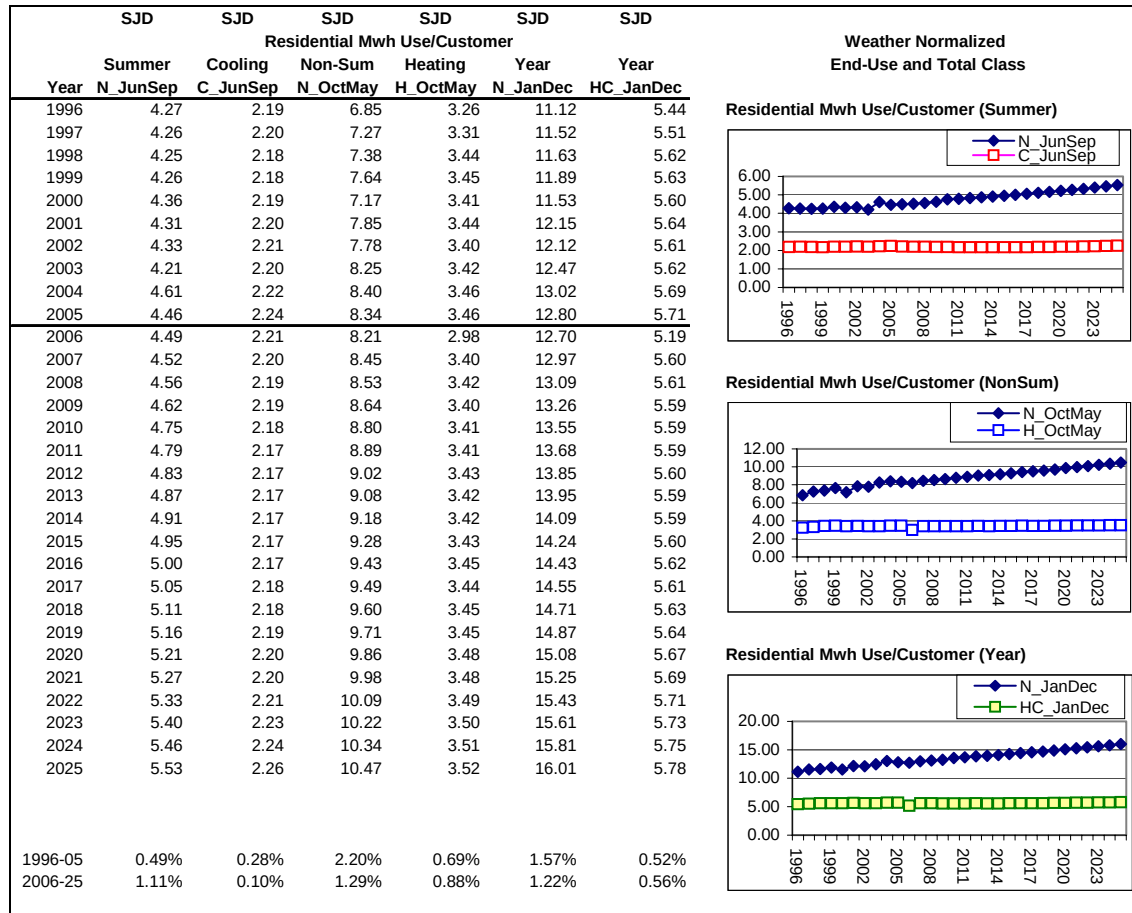


Plot E-7: SJD Total Customers

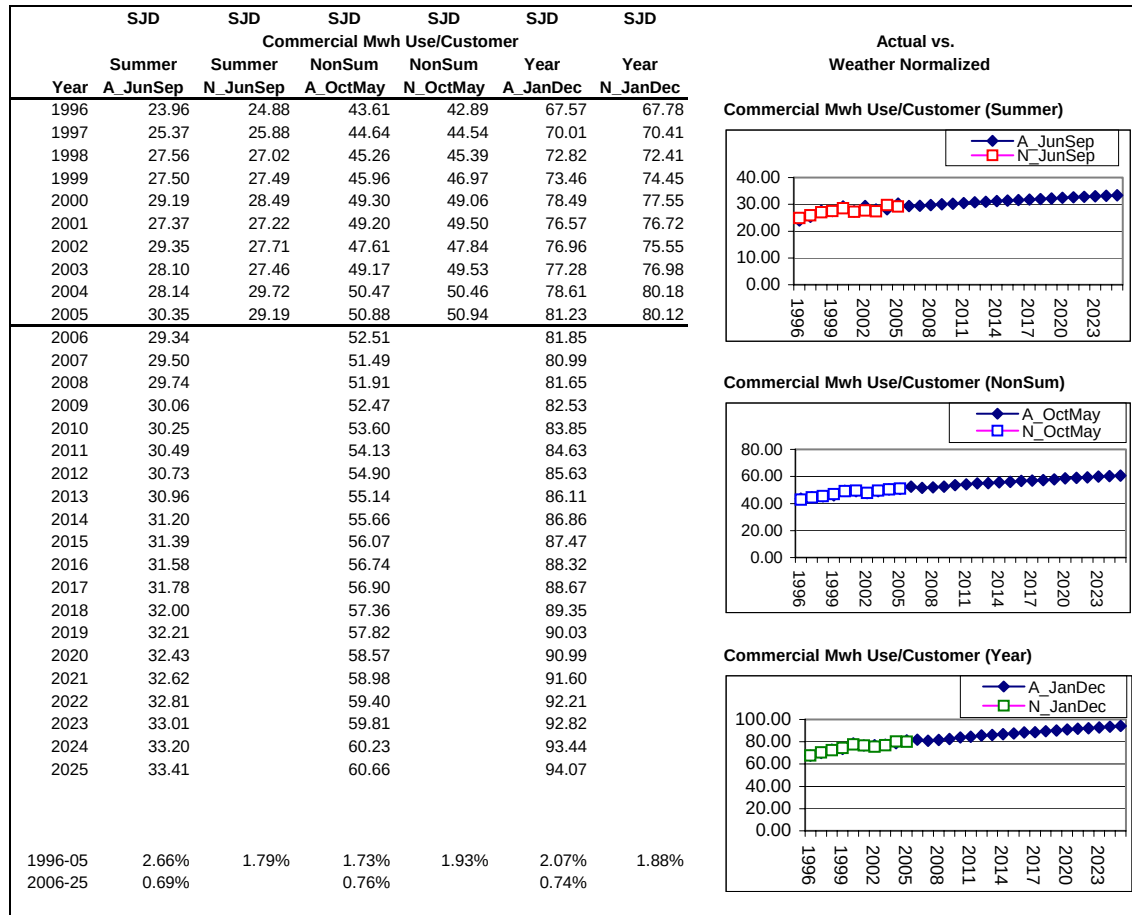


Plot E-8: SJD Residential MWH Use Per Customer
(Actual vs. Weather Normalized)

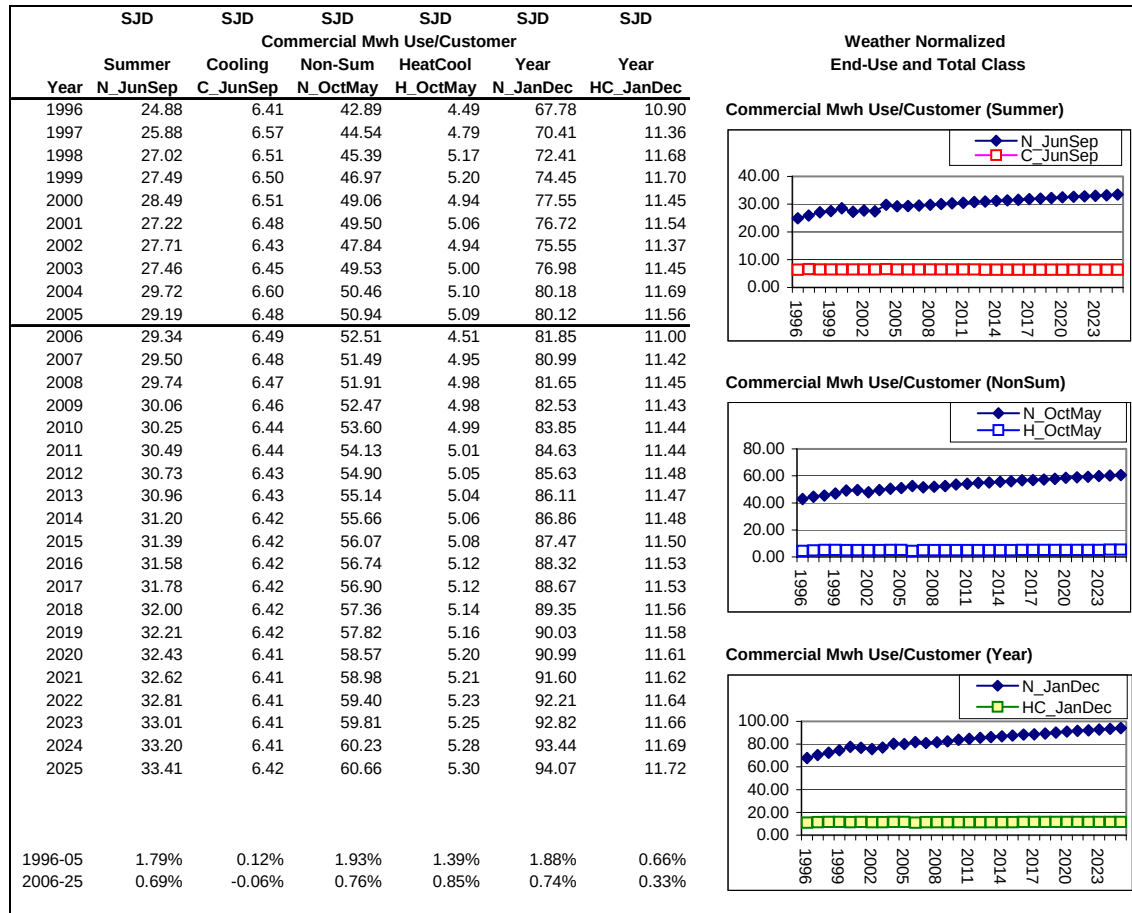
Plot E-9: SJD Residential MWH Use Per Customer by End-Use



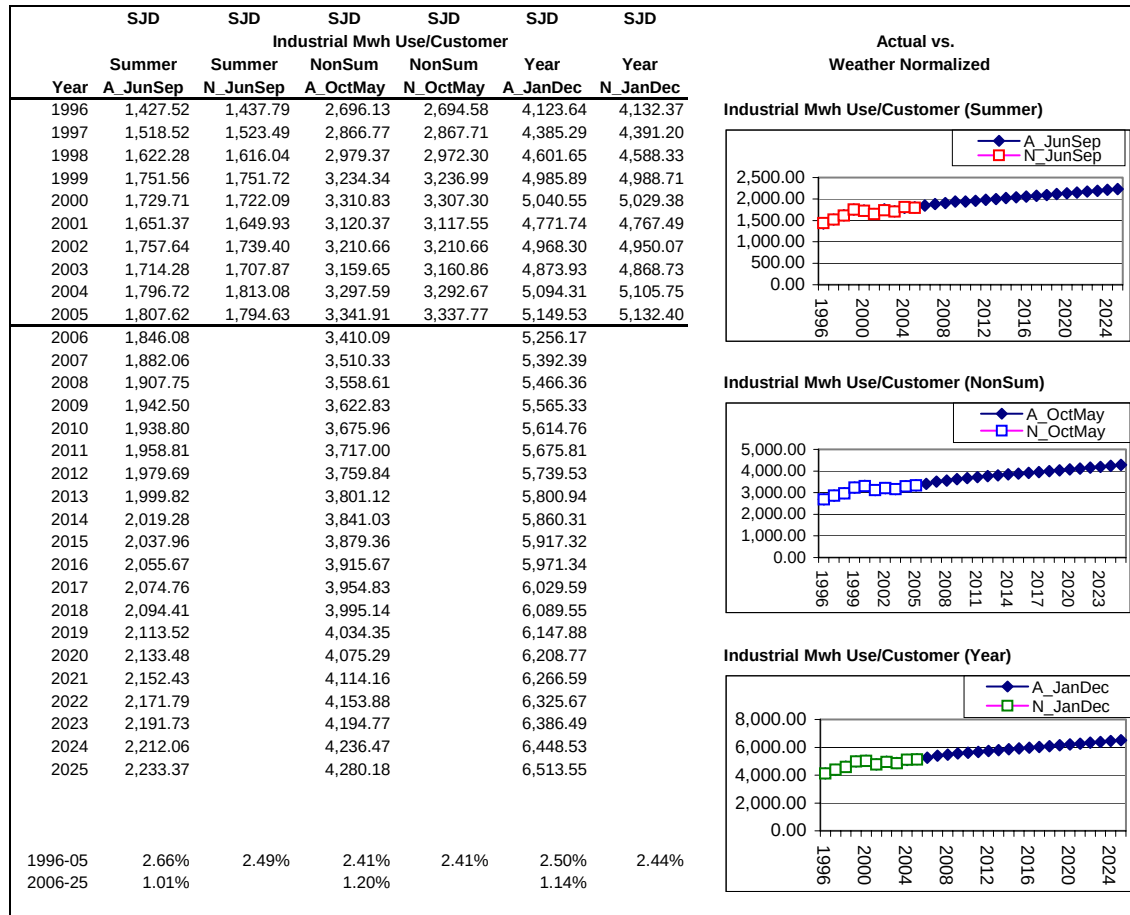
Plot E-10: SJD Commercial MWH Use Per Customer
(Actual vs. Weather Normalized)



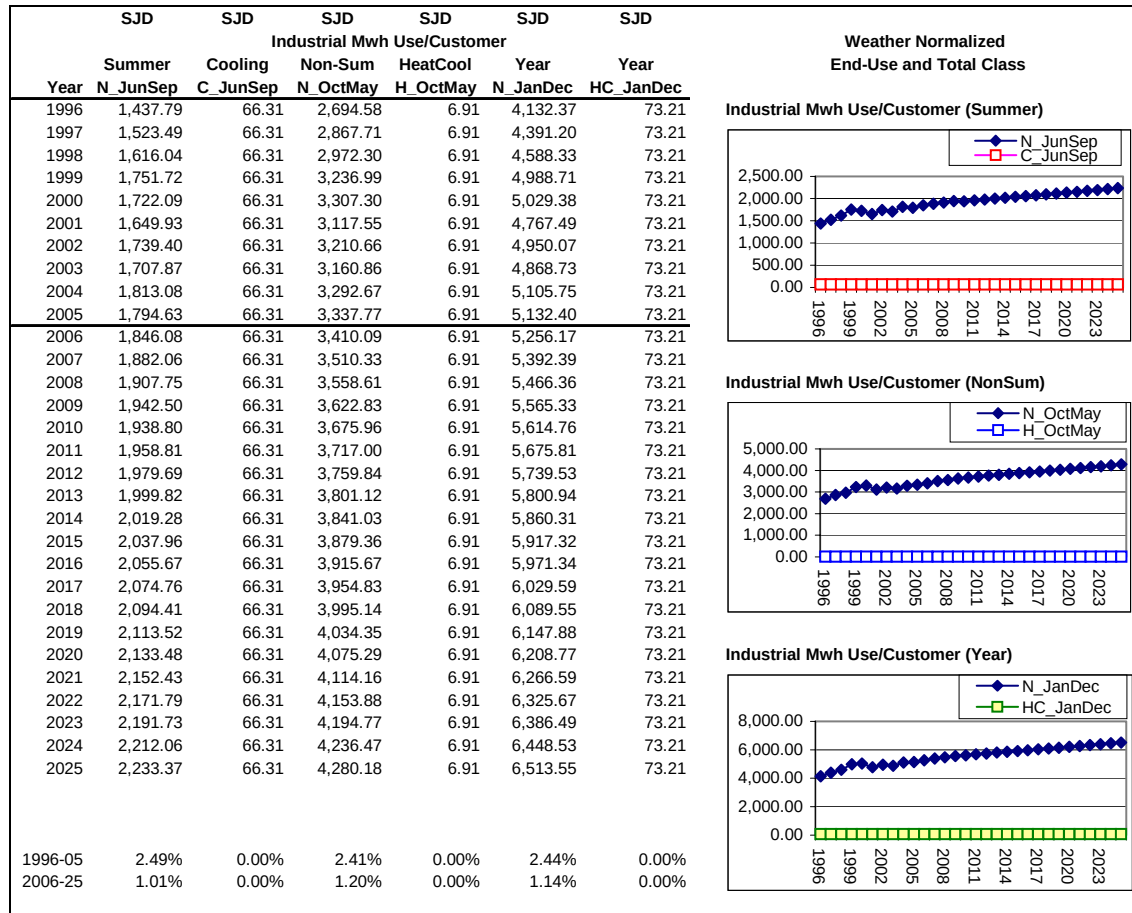
Plot E-11: SJD Commercial MWH Use Per Customer by End-Use



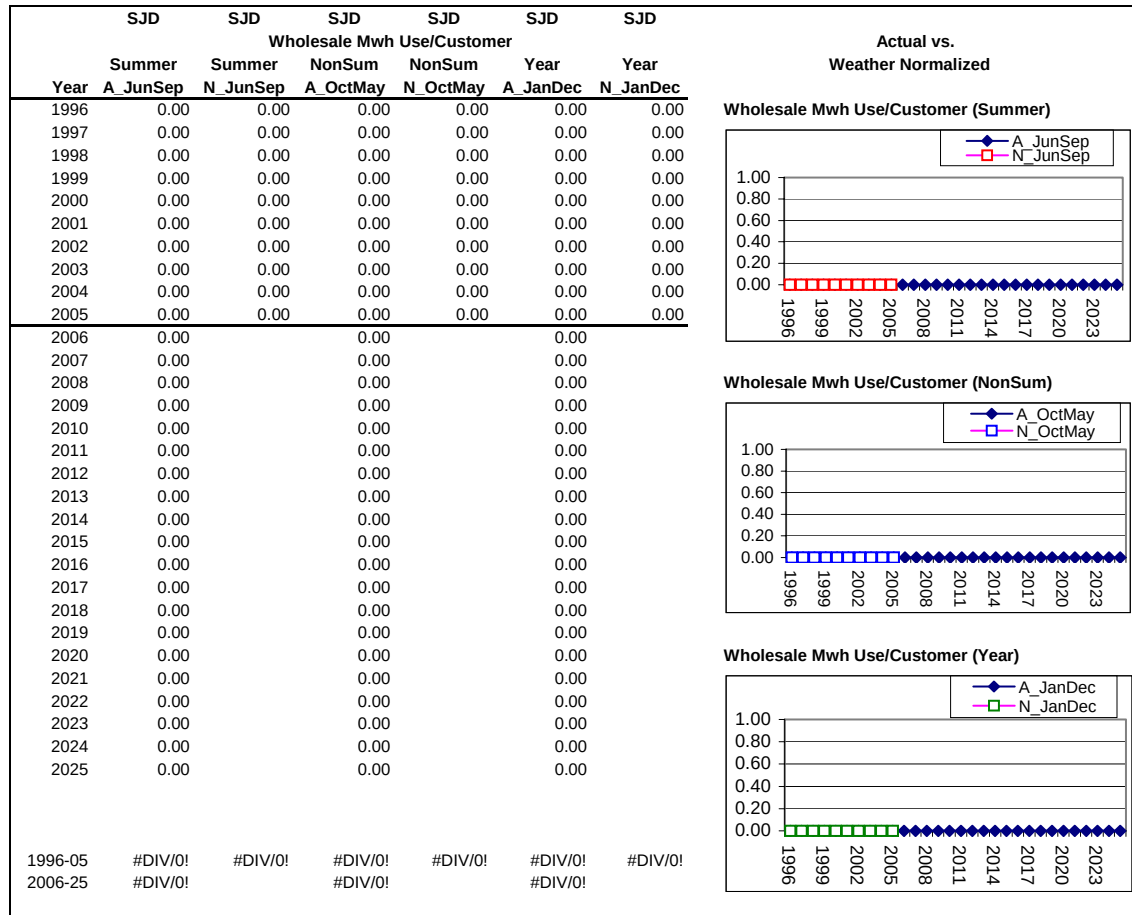
Plot E-12: SJD Industrial MWh Use Per Customer
(Actual vs. Weather Normalized)



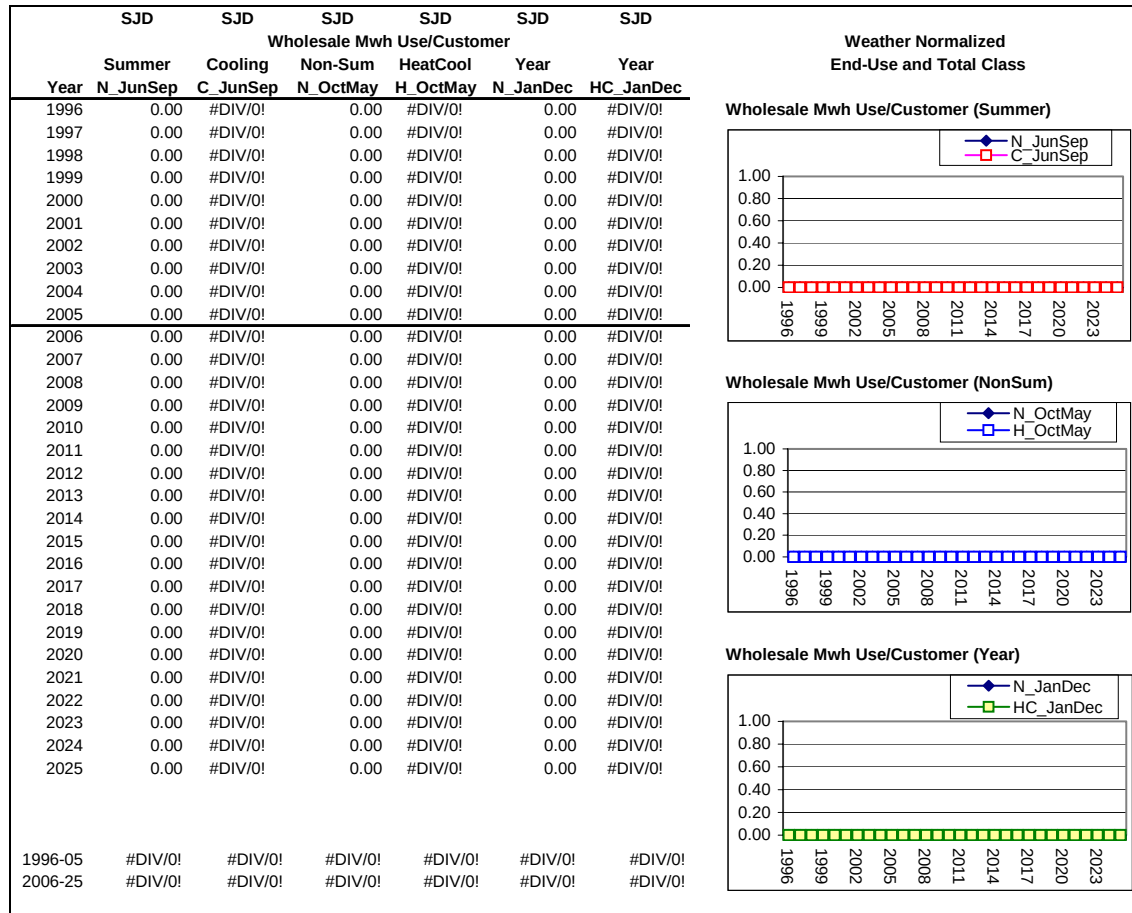
Plot E-13: SJD Industrial MWh Use Per Customer by End-Use



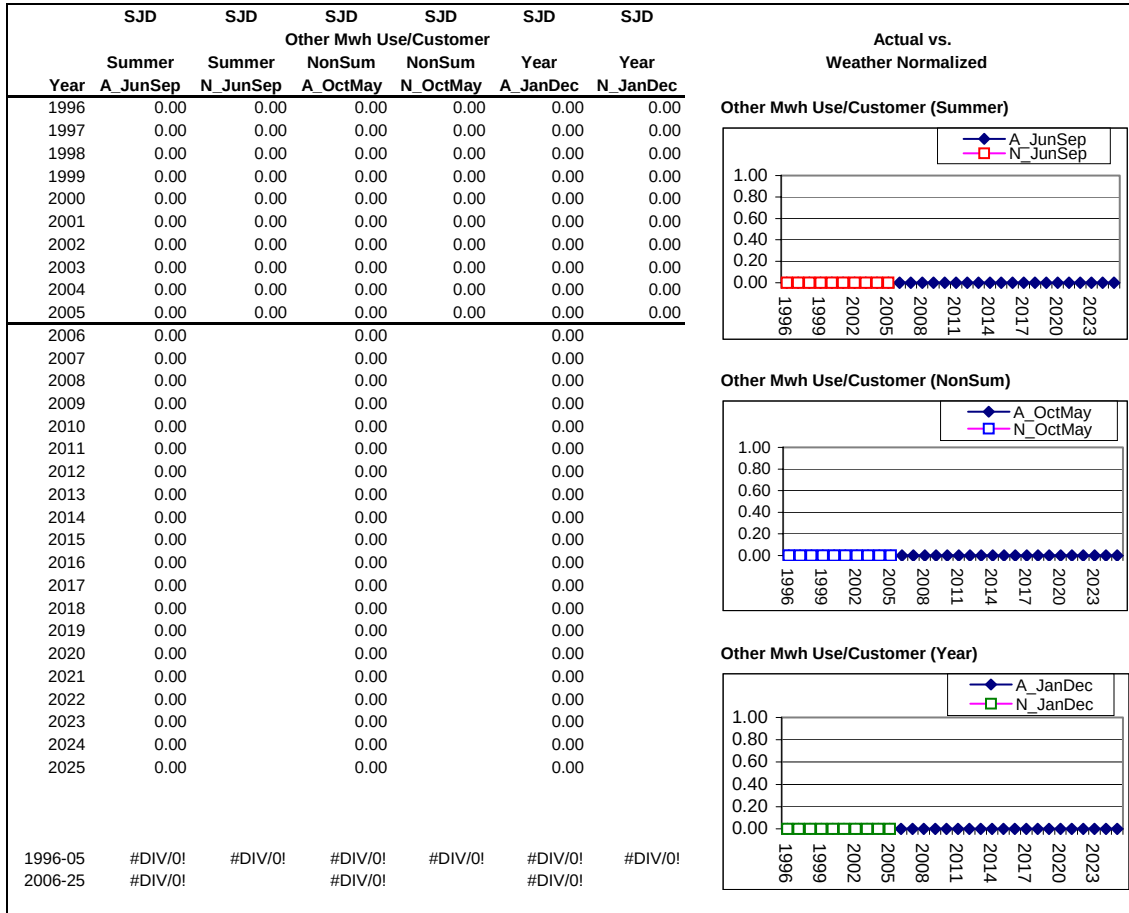
Plot E-14: SJD Wholesale MWH Use Per Customer
(Actual vs. Weather Normalized)



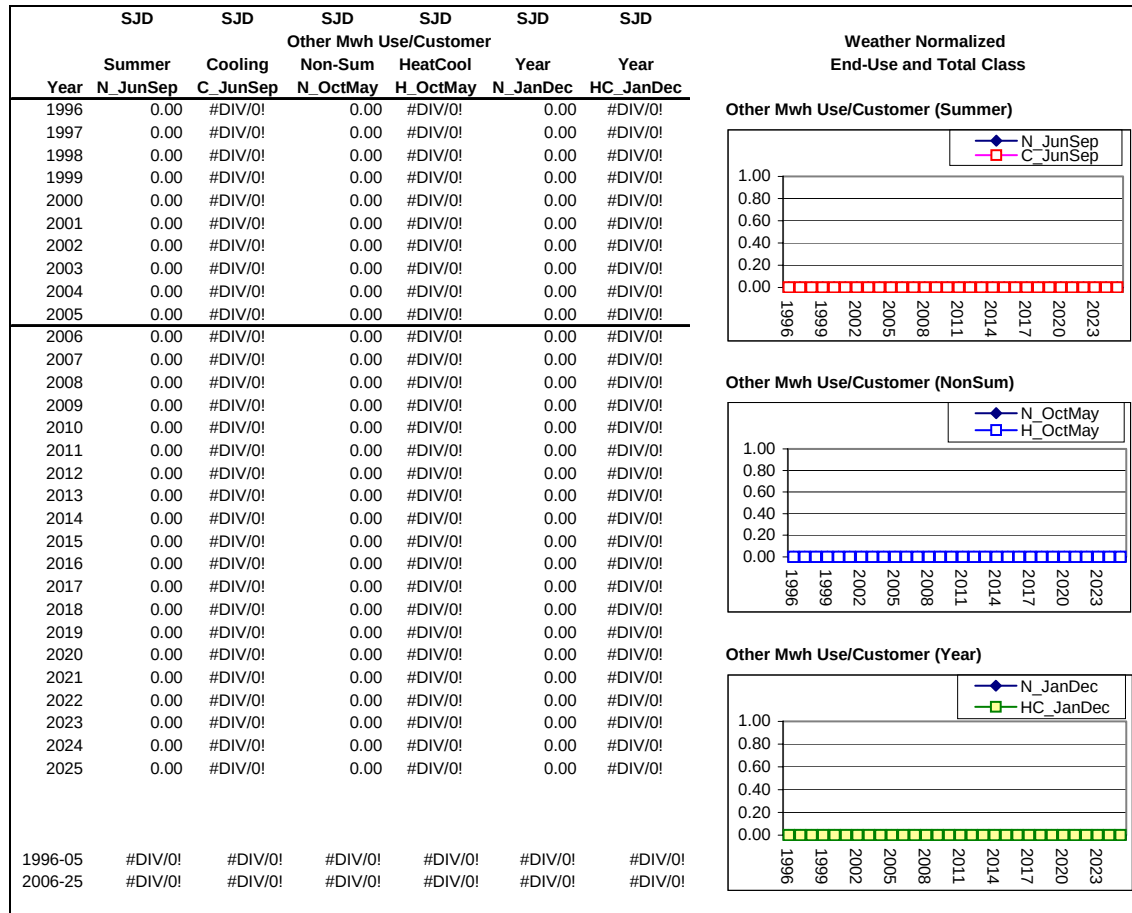
Plot E-15: SJD Wholesale MWH Use Per Customer by End-Use



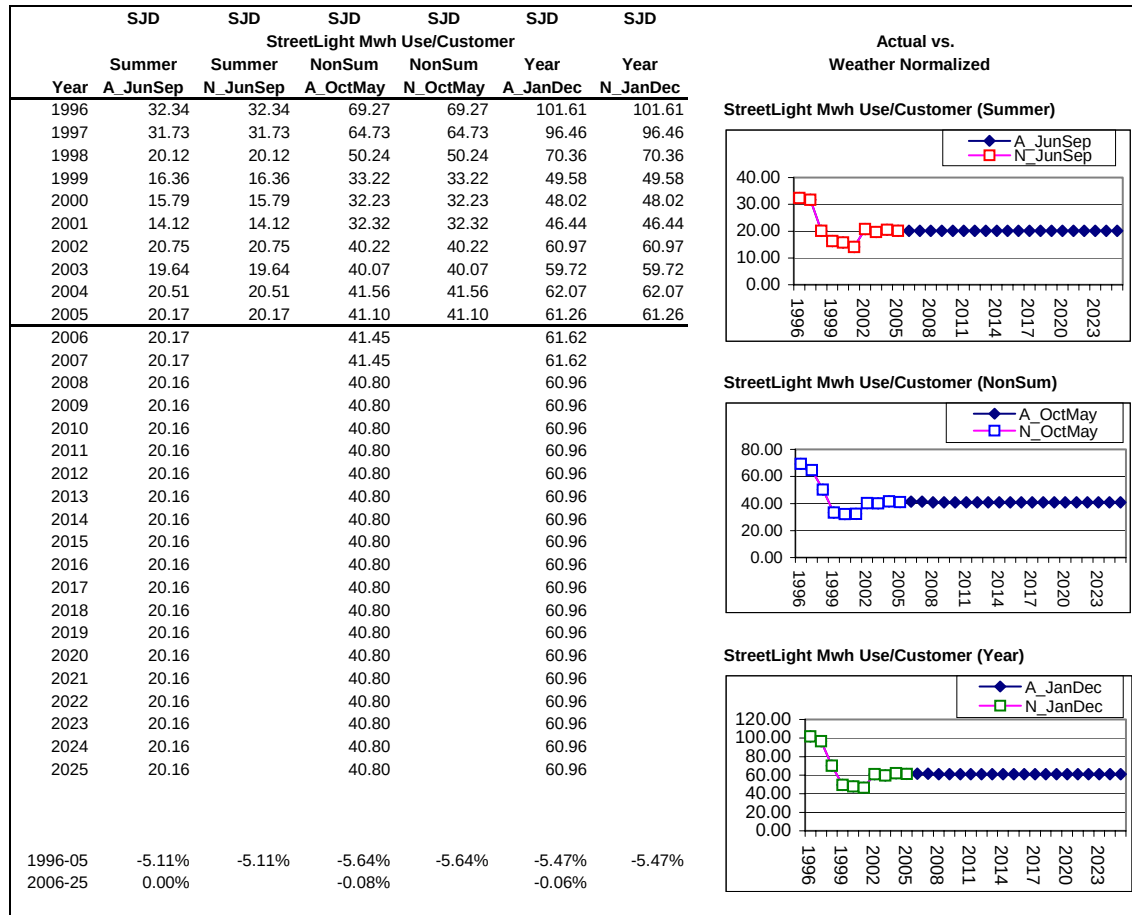
Plot E-16: SJD Other MWH Use Per Customer
(Actual vs. Weather Normalized)



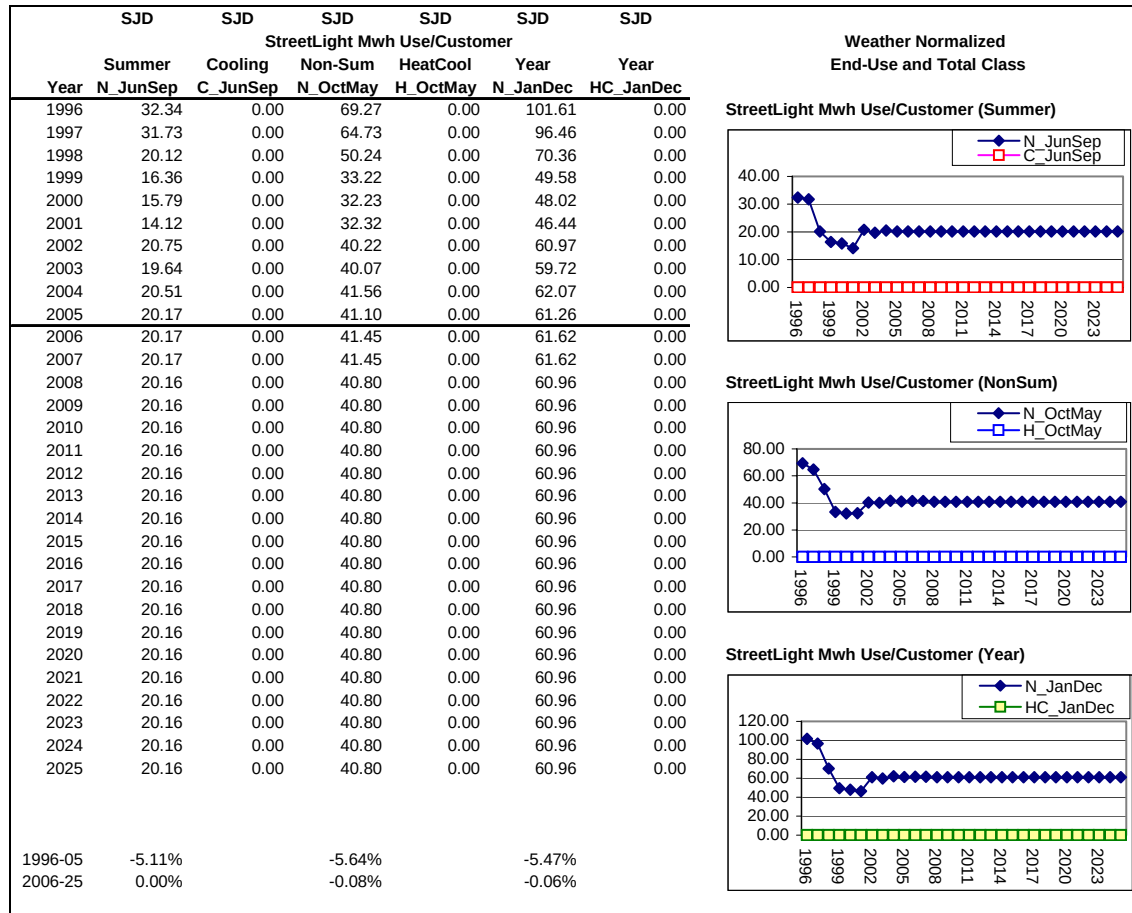
Plot E-17: SJD Other MWH Use Per Customer by End-Use



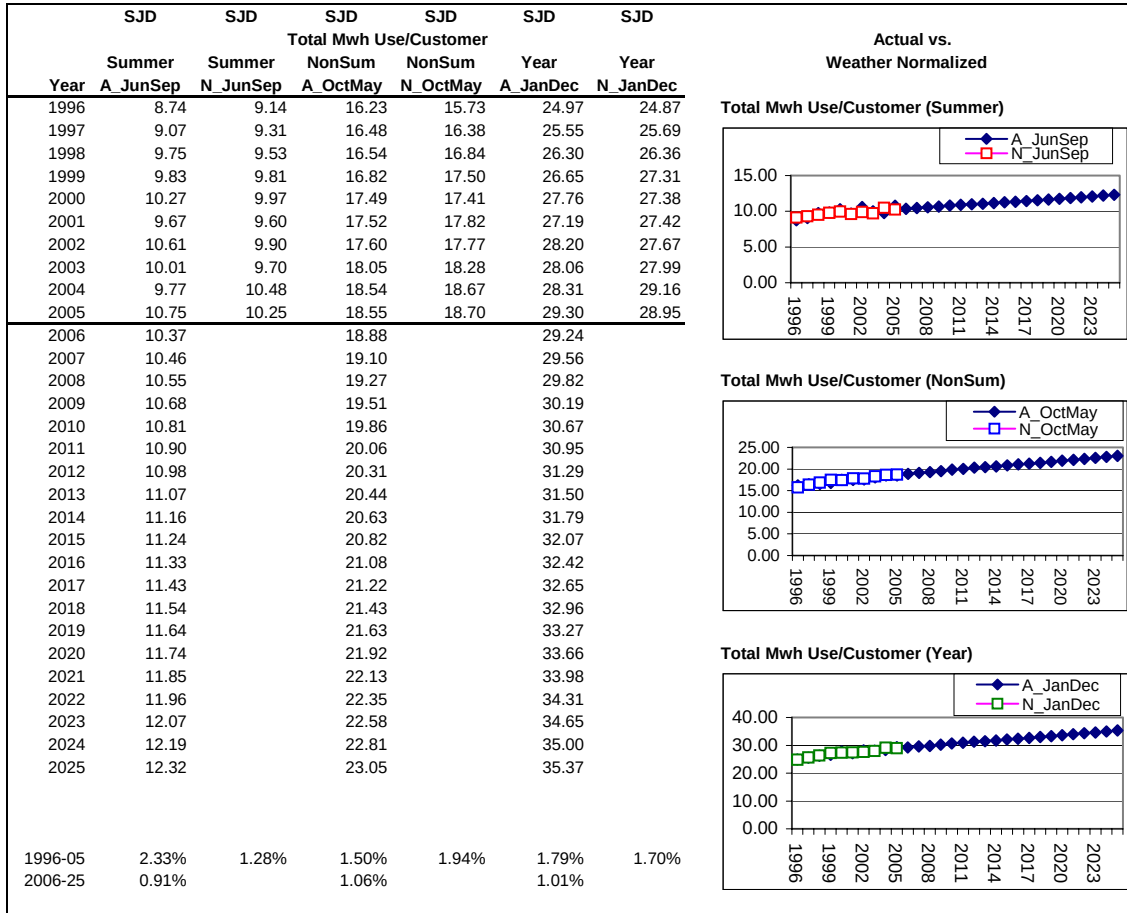
Plot E-18: SJD StreetLight MWH Use Per Customer
(Actual vs. Weather Normalized)



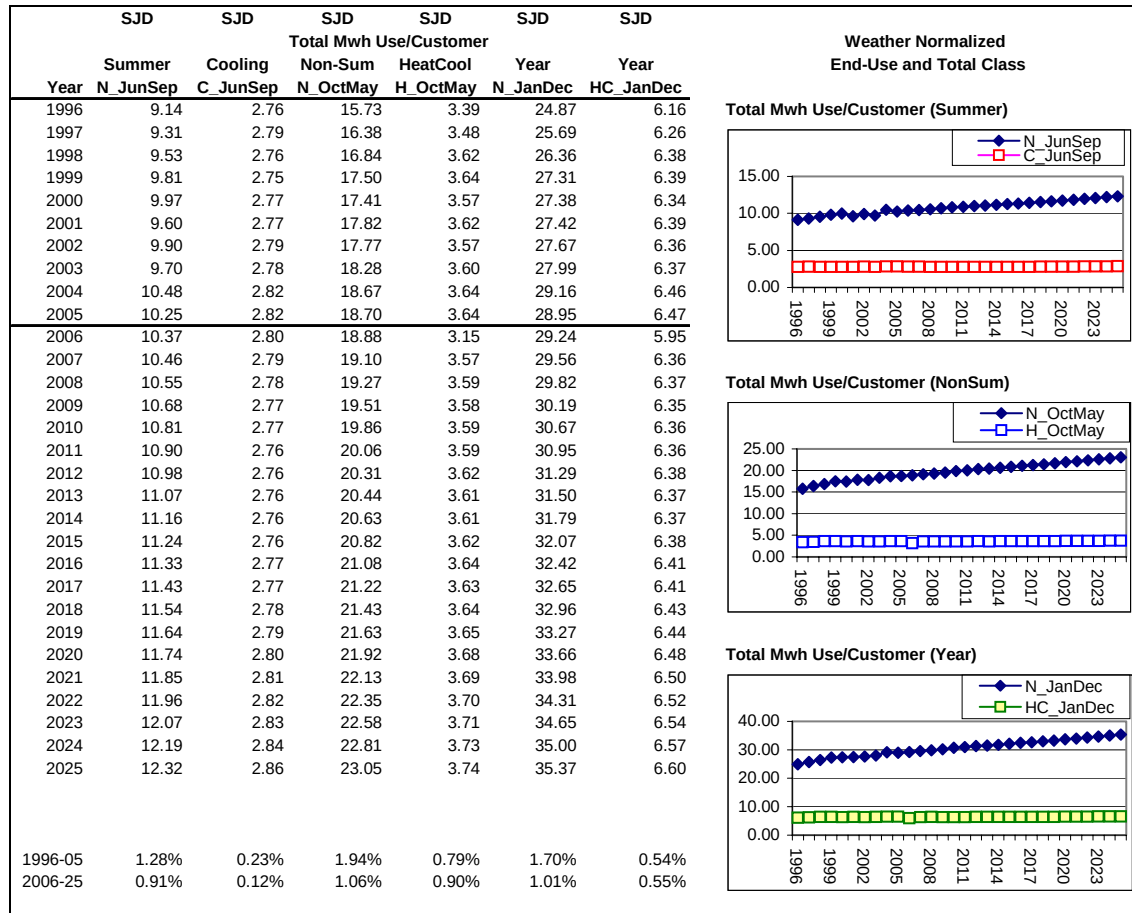
Plot E-19: SJD StreetLight MWh Use Per Customer by End-Use



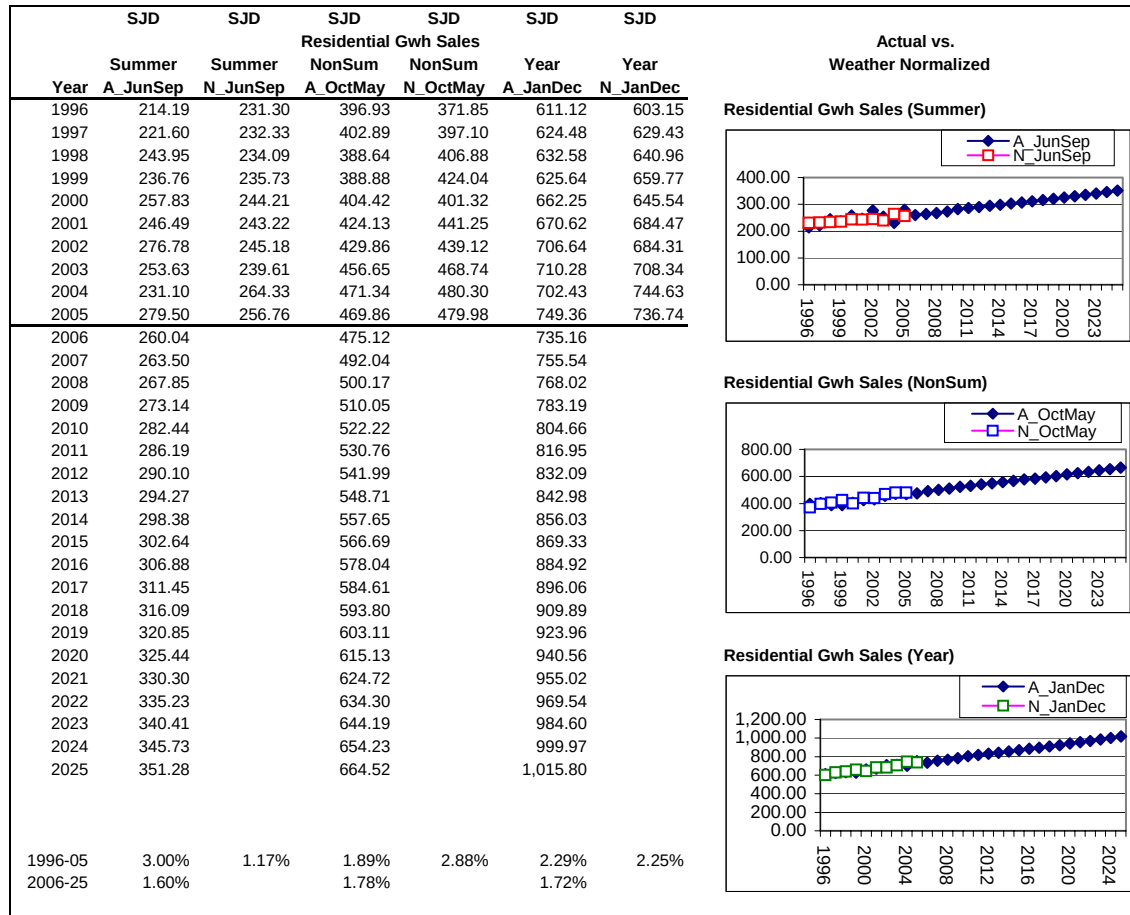
Plot E-20: SJD Total MWH Use Per Customer
(Actual vs. Weather Normalized)



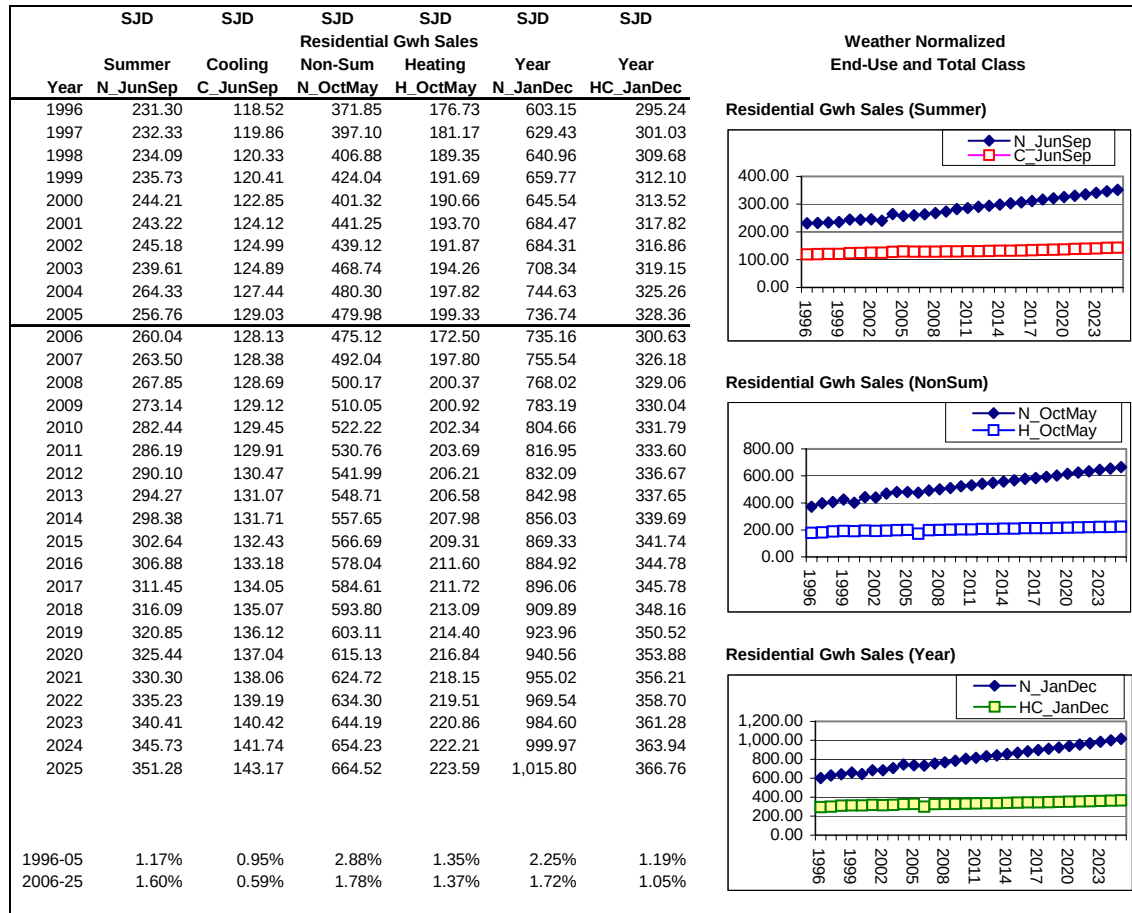
Plot E-21: SJD Total MWH Use Per Customer by End-Use



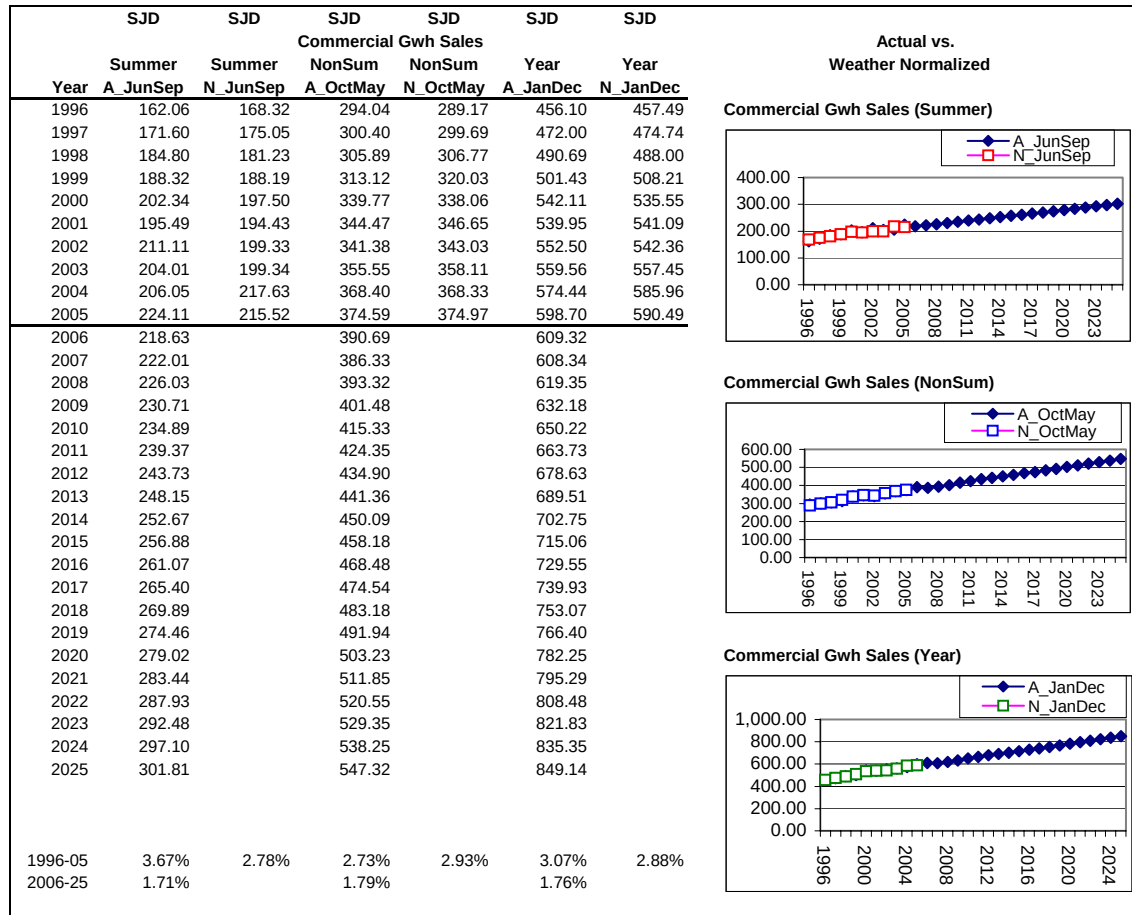
Plot E-22: SJD Residential GWh Sales
(Actual vs. Weather Normalized)



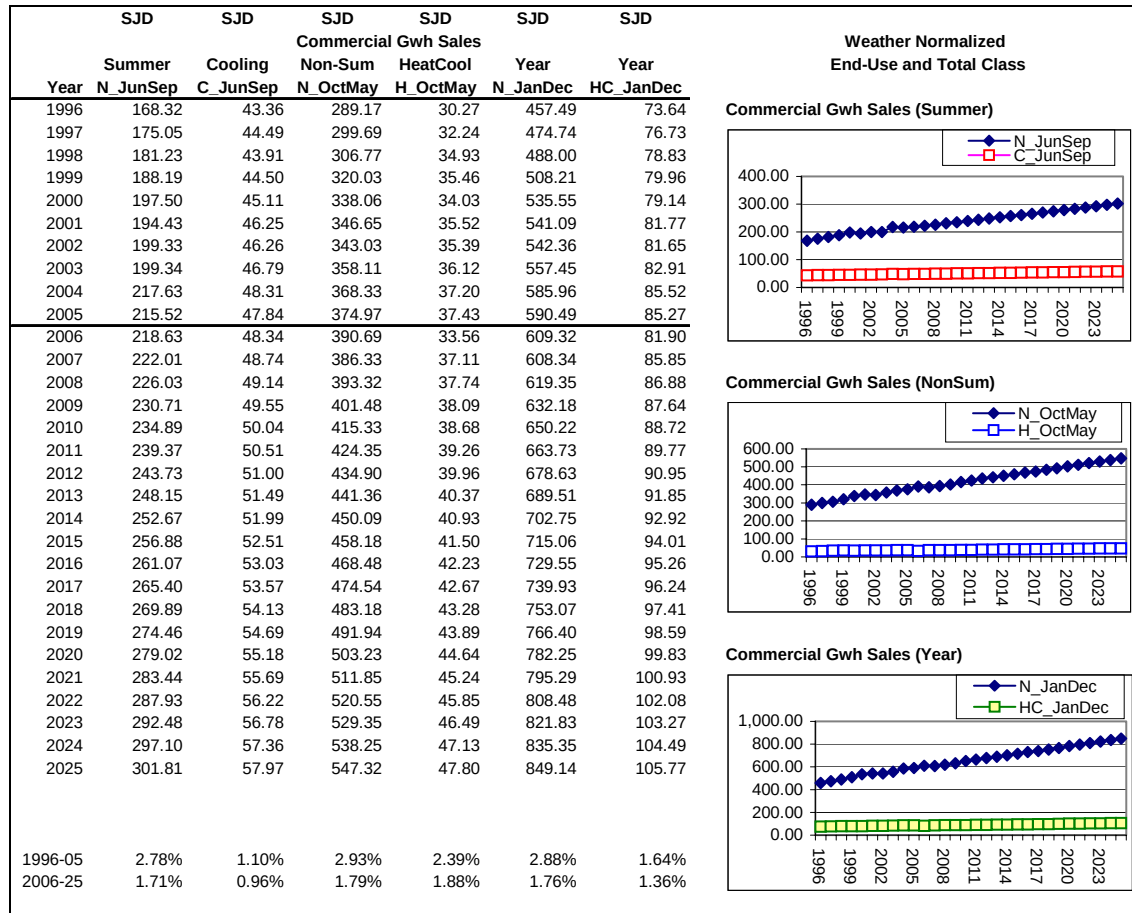
Plot E-23: SJD Residential GWH Sales by End-Use



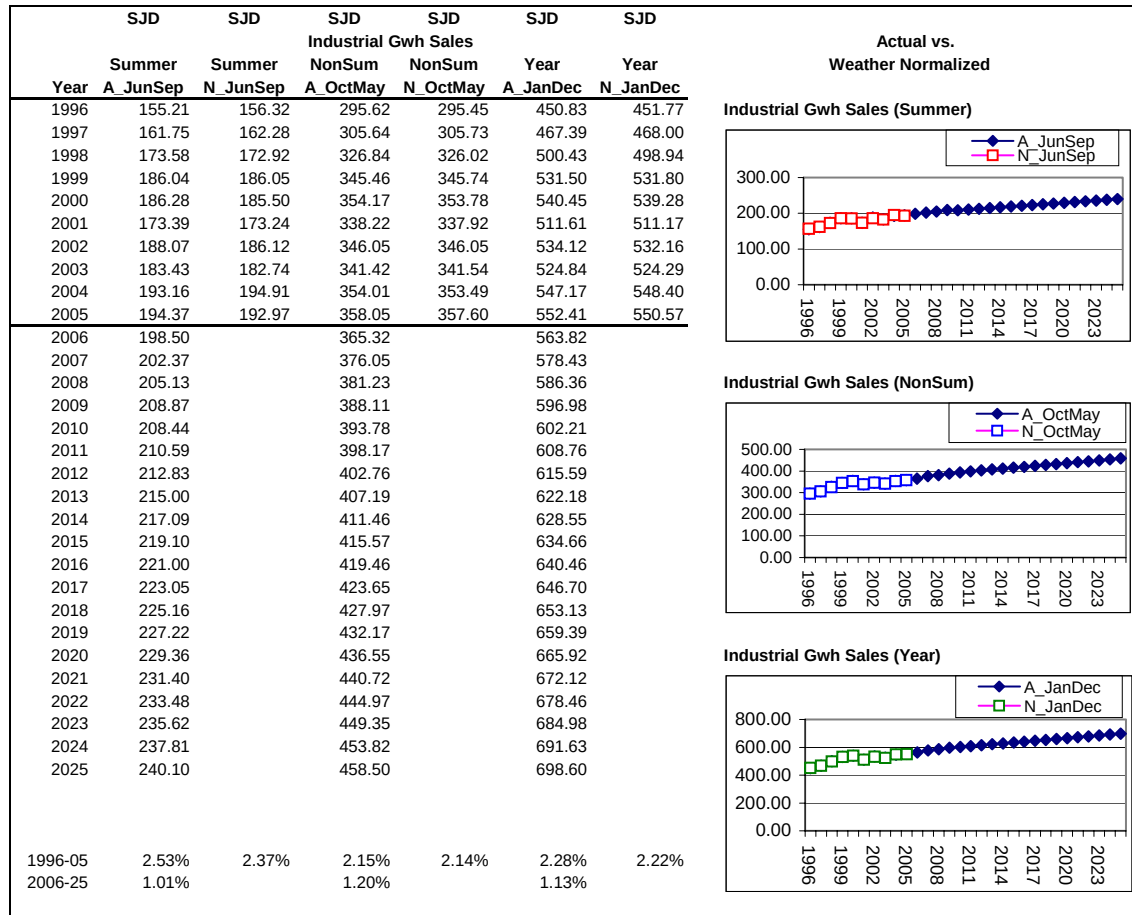
Plot E-24: SJD Commercial GWh Sales
(Actual vs. Weather Normalized)



Plot E-25: SJD Commercial GWh Sales by End-Use



Plot E-26: SJD Industrial GWh Sales
(Actual vs. Weather Normalized)

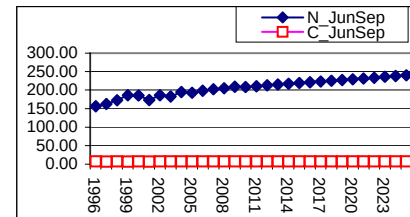


Plot E-27: SJD Industrial GWh Sales by End-Use

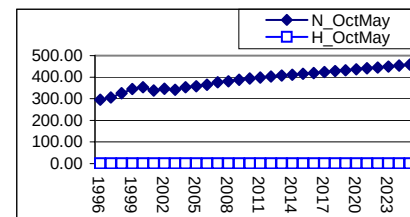
Year	SJD	SJD	SJD Industrial Gwh Sales		SJD	SJD
	Summer	Cooling	Non-Sum	HeatCool	Year	Year
	N_JunSep	C_JunSep	N_OctMay	H_OctMay	N_JanDec	HC_JanDec
1996	156.32	7.21	295.45	0.76	451.77	7.97
1997	162.28	7.06	305.73	0.73	468.00	7.78
1998	172.92	7.09	326.02	0.81	498.94	7.90
1999	186.05	7.06	345.74	0.74	531.80	7.80
2000	185.50	7.16	353.78	0.76	539.28	7.91
2001	173.24	6.96	337.92	0.72	511.17	7.69
2002	186.12	7.09	346.05	0.75	532.16	7.84
2003	182.74	7.09	341.54	0.75	524.29	7.84
2004	194.91	7.12	353.49	0.74	548.40	7.86
2005	192.97	7.13	357.60	0.74	550.57	7.87
2006	198.50	7.13	365.32	0.74	563.82	7.87
2007	202.37	7.13	376.05	0.74	578.43	7.87
2008	205.13	7.13	381.23	0.74	586.36	7.87
2009	208.87	7.13	388.11	0.74	596.98	7.87
2010	208.44	7.13	393.78	0.74	602.21	7.87
2011	210.59	7.13	398.17	0.74	608.76	7.87
2012	212.83	7.13	402.76	0.74	615.59	7.87
2013	215.00	7.13	407.19	0.74	622.18	7.87
2014	217.09	7.13	411.46	0.74	628.55	7.87
2015	219.10	7.13	415.57	0.74	634.66	7.87
2016	221.00	7.13	419.46	0.74	640.46	7.87
2017	223.05	7.13	423.65	0.74	646.70	7.87
2018	225.16	7.13	427.97	0.74	653.13	7.87
2019	227.22	7.13	432.17	0.74	659.39	7.87
2020	229.36	7.13	436.55	0.74	665.92	7.87
2021	231.40	7.13	440.72	0.74	672.12	7.87
2022	233.48	7.13	444.97	0.74	678.46	7.87
2023	235.62	7.13	449.35	0.74	684.98	7.87
2024	237.81	7.13	453.82	0.74	691.63	7.87
2025	240.10	7.13	458.50	0.74	698.60	7.87
1996-05	2.37%	-0.13%	2.14%	-0.27%	2.22%	-0.14%
2006-25	1.01%	0.00%	1.20%	0.00%	1.13%	0.00%

Weather Normalized
End-Use and Total Class

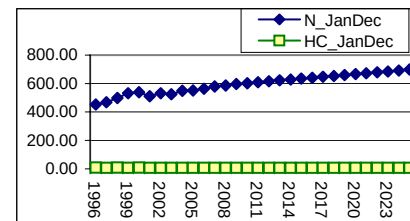
Industrial Gwh Sales (Summer)



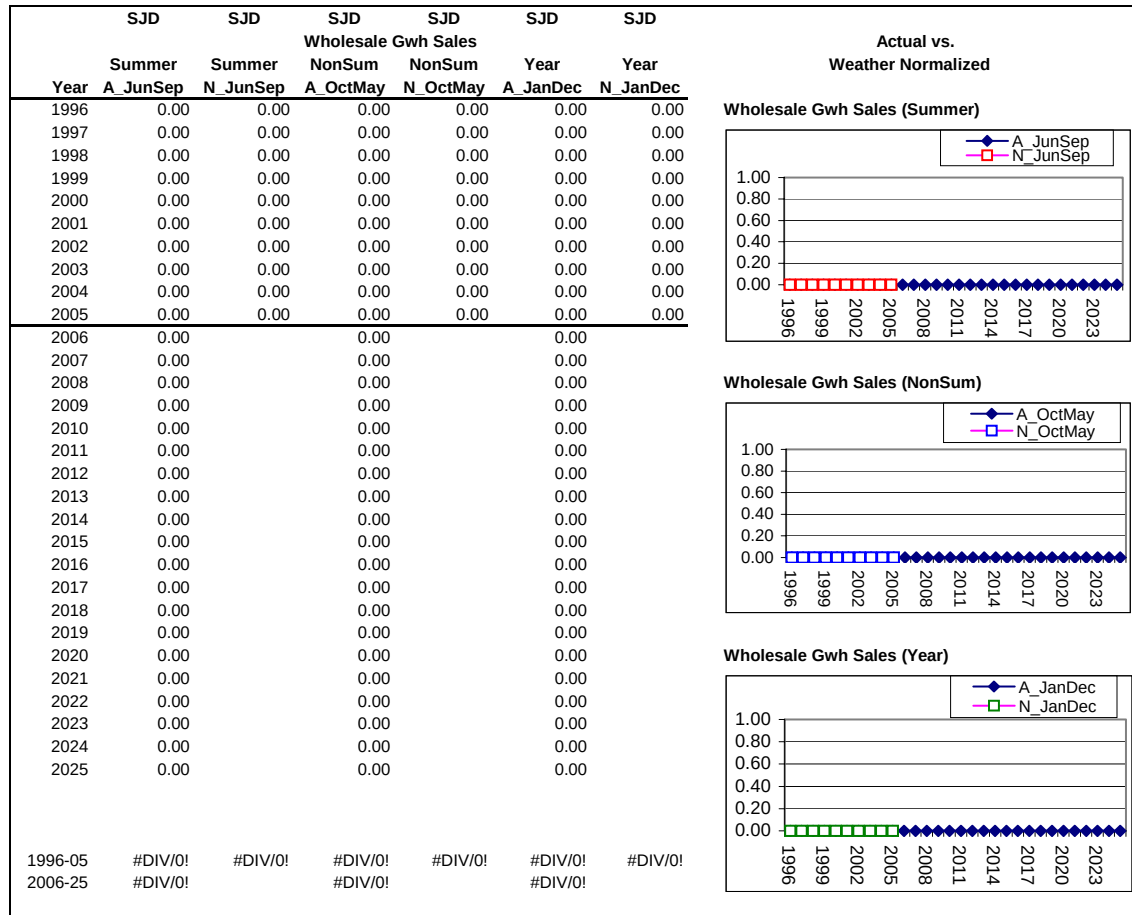
Industrial Gwh Sales (NonSum)



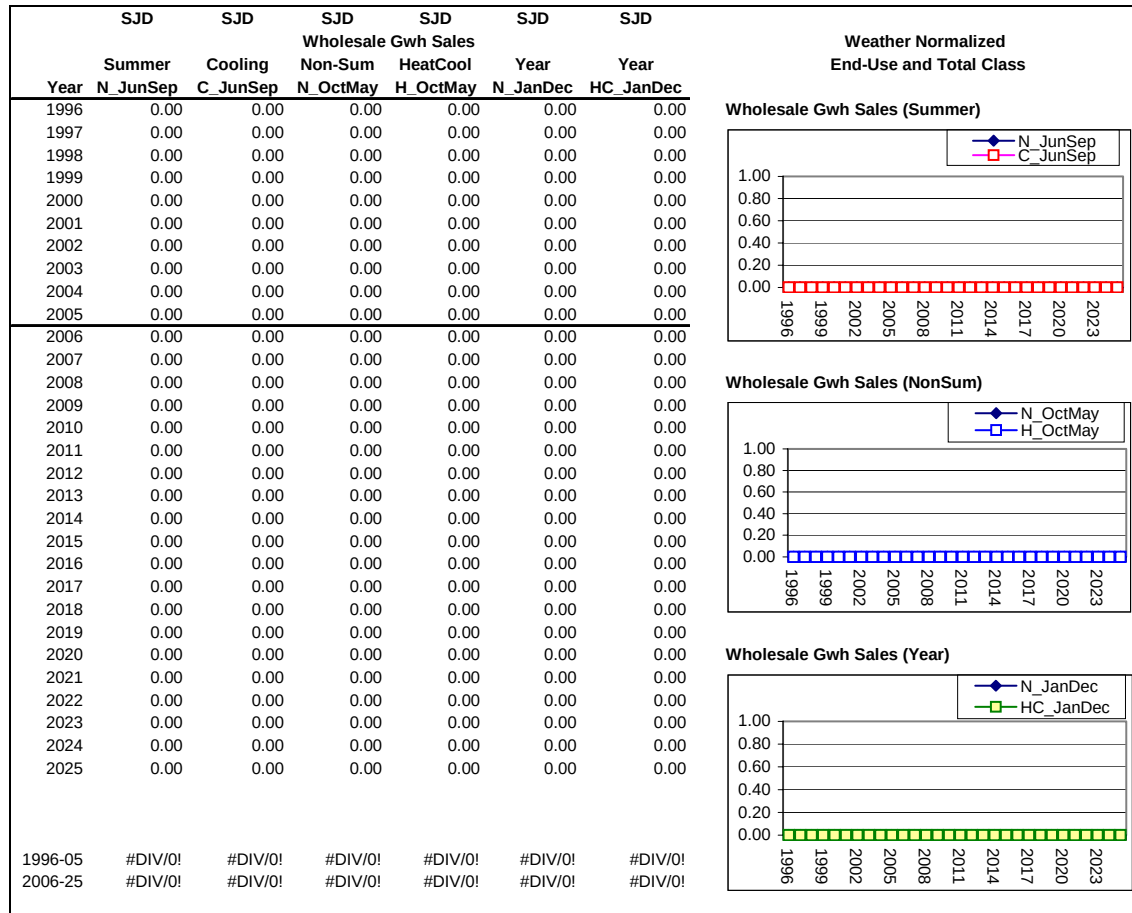
Industrial Gwh Sales (Year)



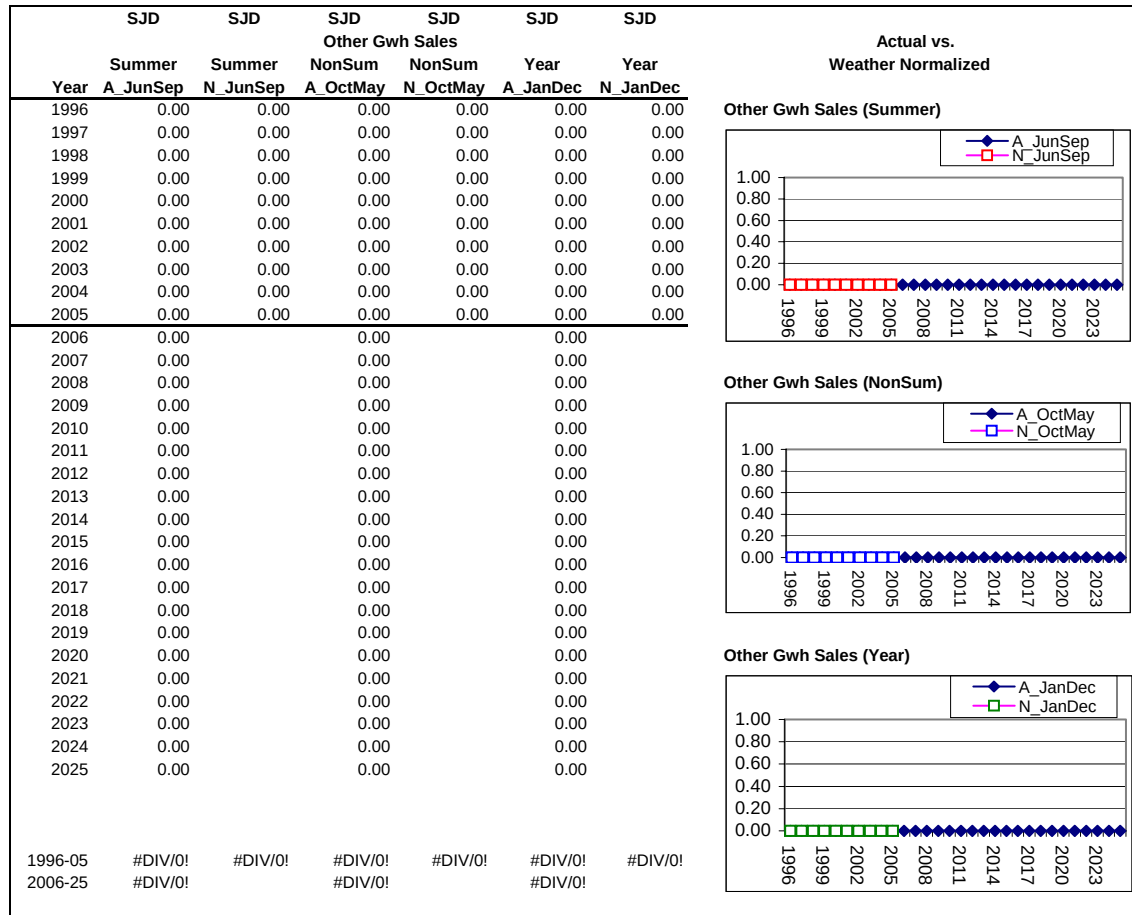
Plot E-28: SJD Wholesale GWH Sales
(Actual vs. Weather Normalized)



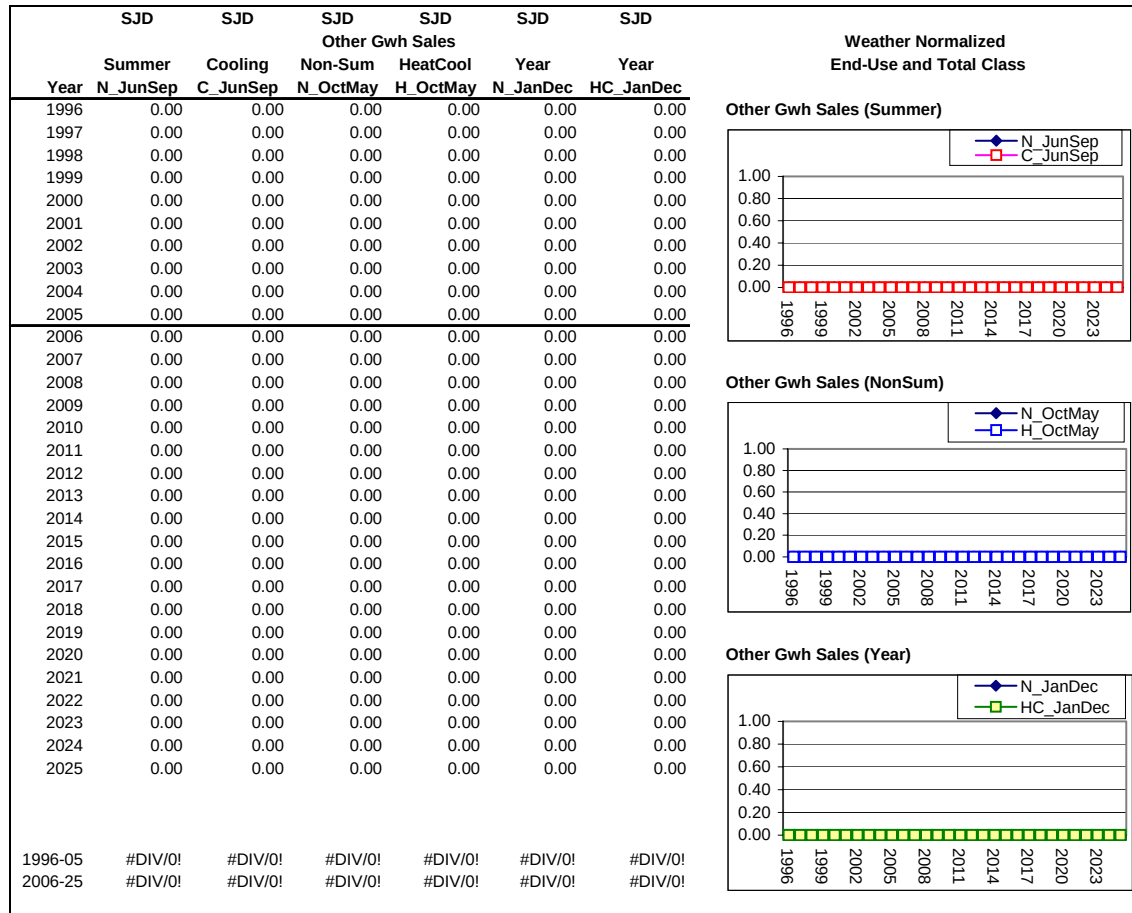
Plot E-29: SJD Wholesale GWH Sales by End-Use



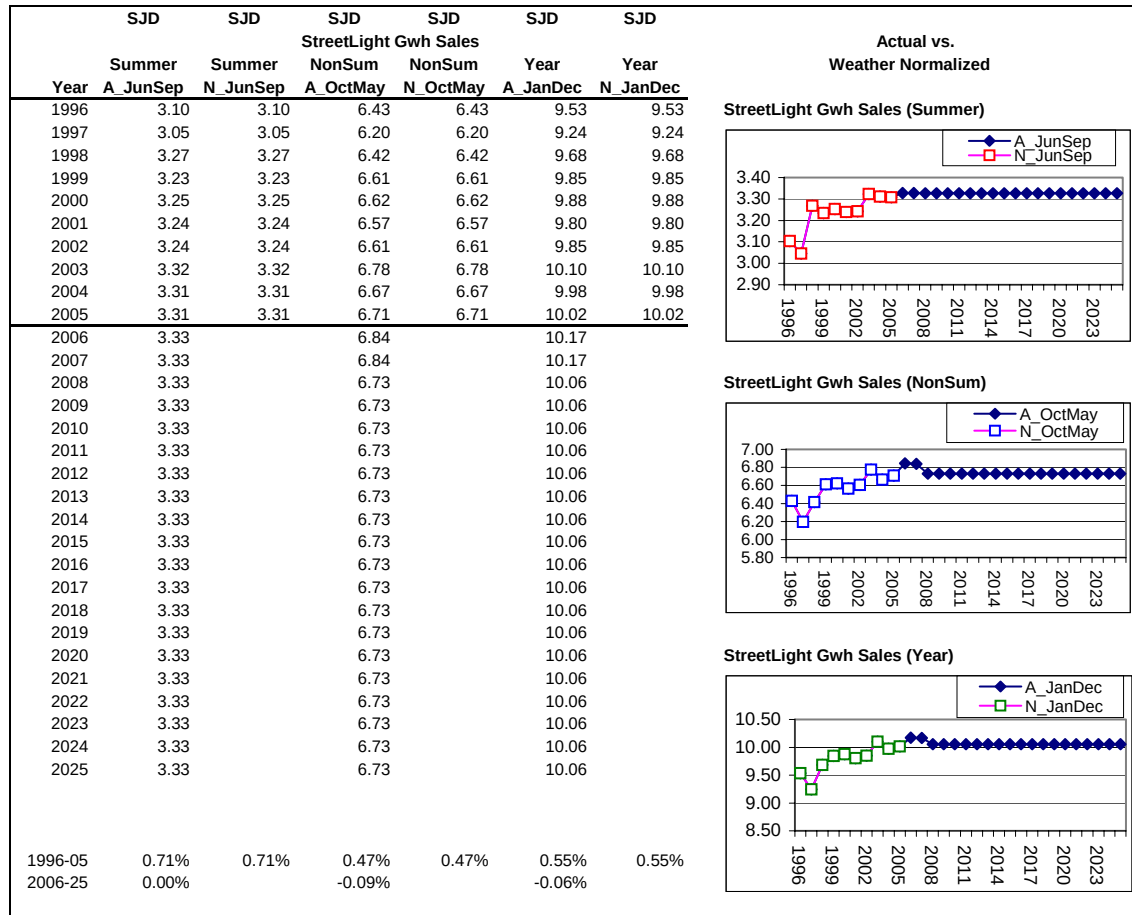
Plot E-30: SJD Other GWH Sales
(Actual vs. Weather Normalized)



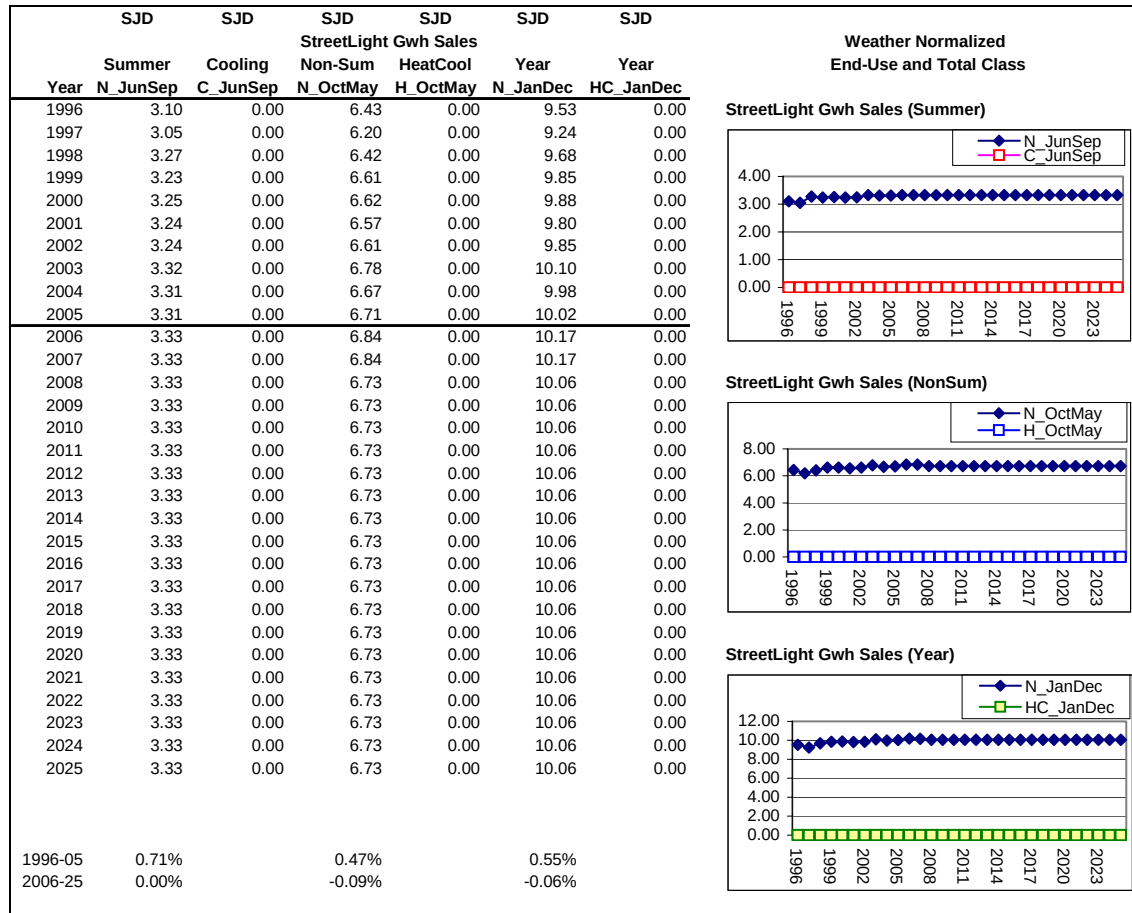
Plot E-31: SJD Other GWH Sales by End-Use



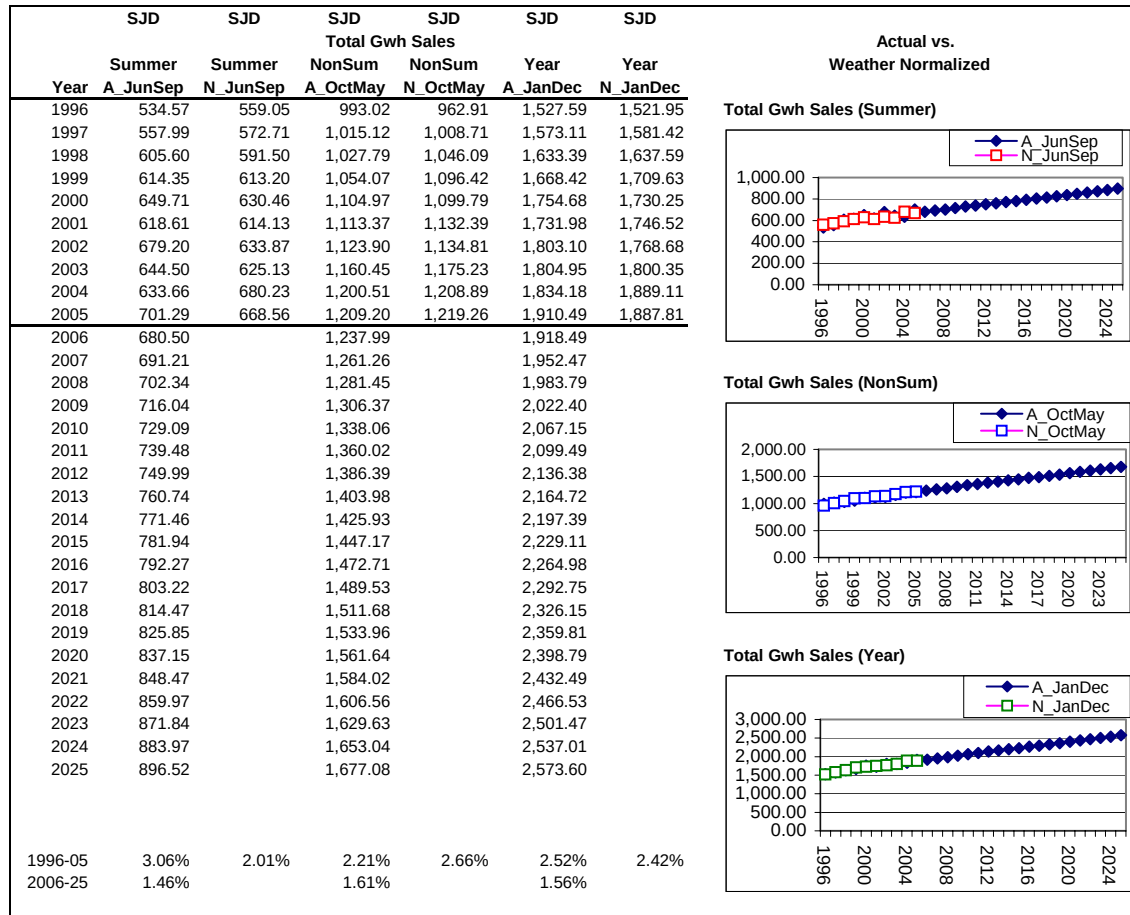
Plot E-32: SJD StreetLight GWh Sales
(Actual vs. Weather Normalized)



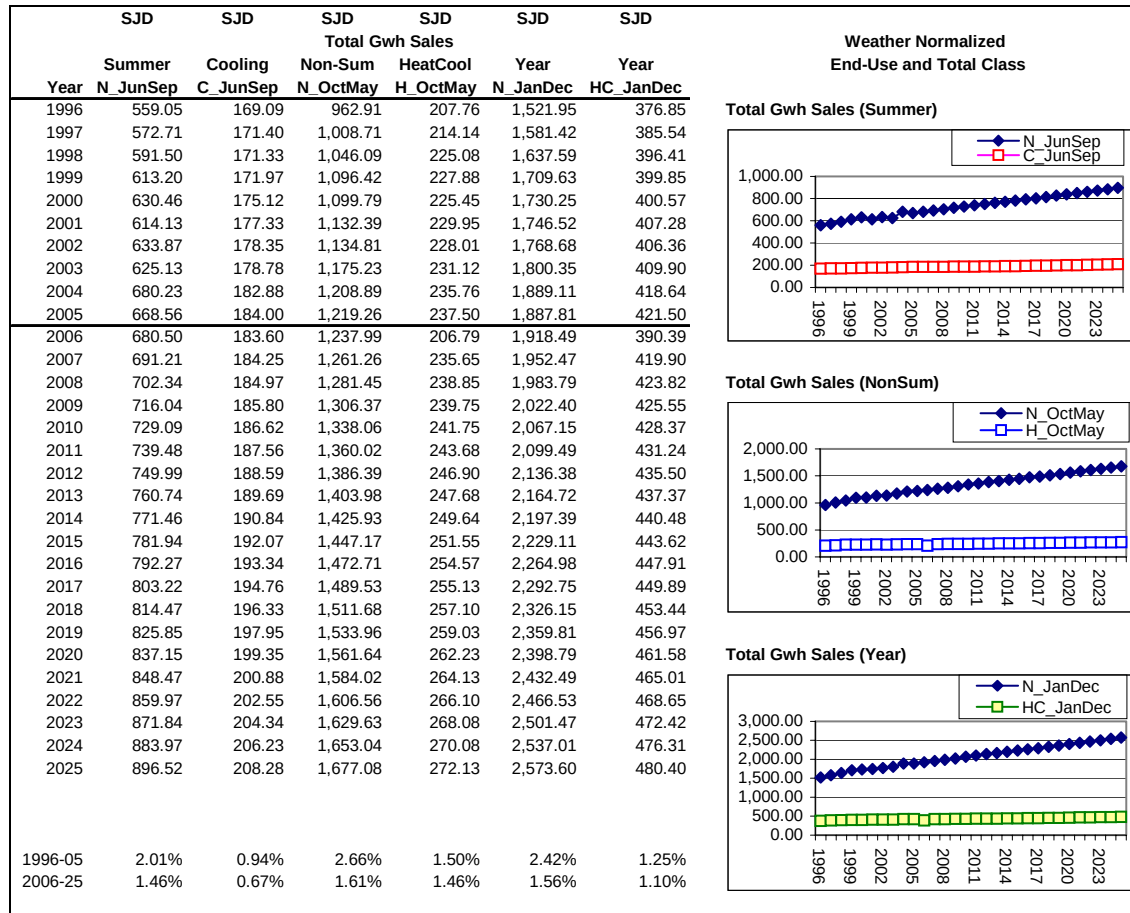
Plot E-33: SJD StreetLight GWH Sales by End-Use



Plot E-35: SJD Total GWH Sales
(Actual vs. Weather Normalized)



Plot E-35: SJD 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.

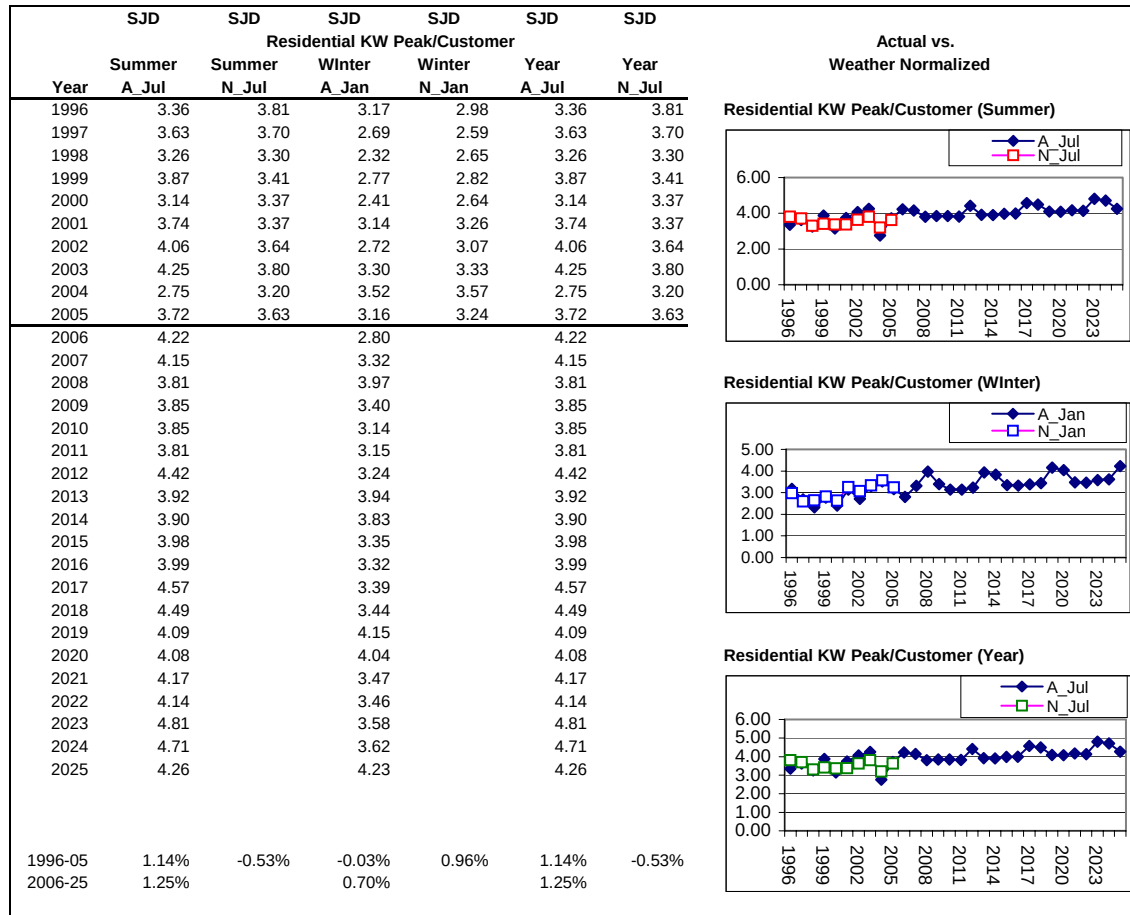
(8)(B)(1) The plots for the historical period shall include both actual and weather-normalized class demands per unit and total demands at the time of summer and winter system peak demands.

(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.

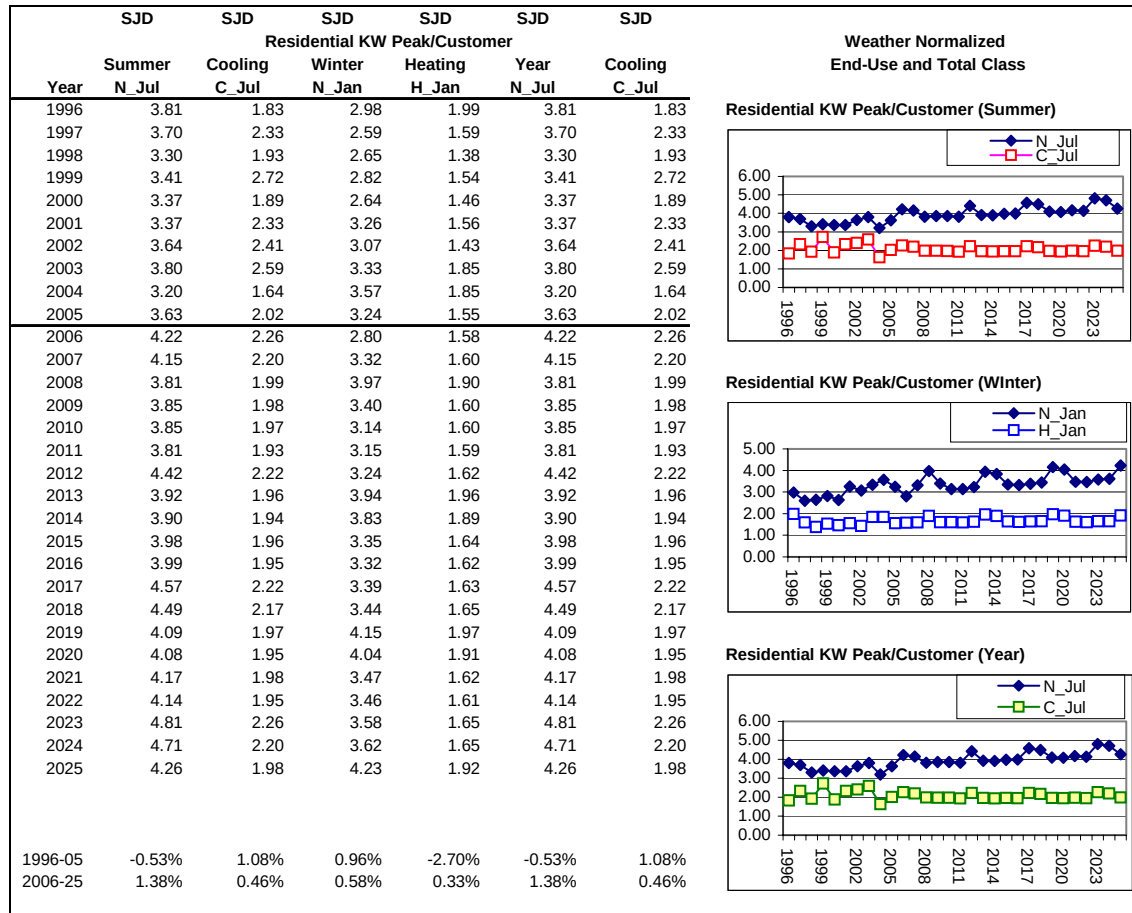
Compliance: See Plots E-36 through E-63 for base-case SJLP forecast reports designed to comply with section (8)(B) reporting requirements.

Linked Files: Aquila Networks – St. Joseph Light & Power (SJLP)
8B_SJD_M2007F_Peaks_B.xls

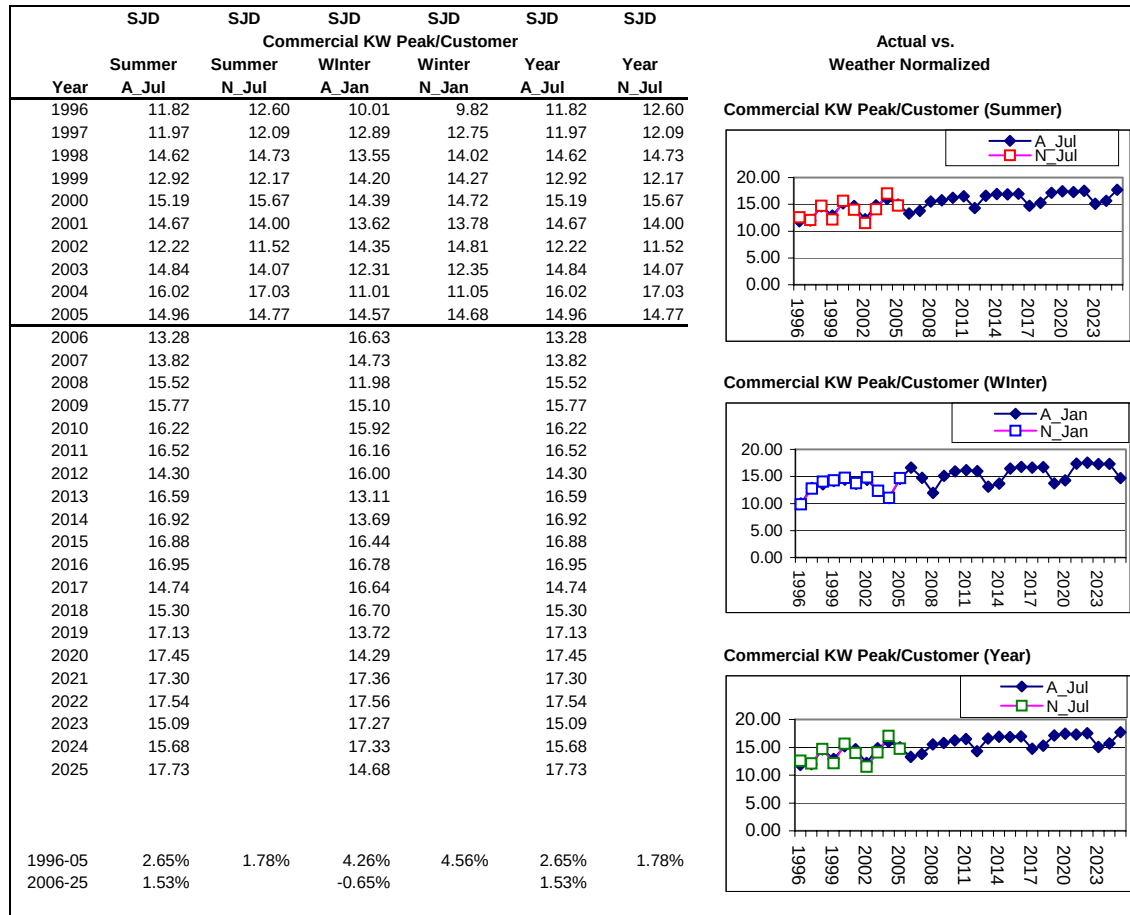
Plot E-36: SJD Residential KW Peak Demand per Customer
(Actual vs. Weather Normalized)



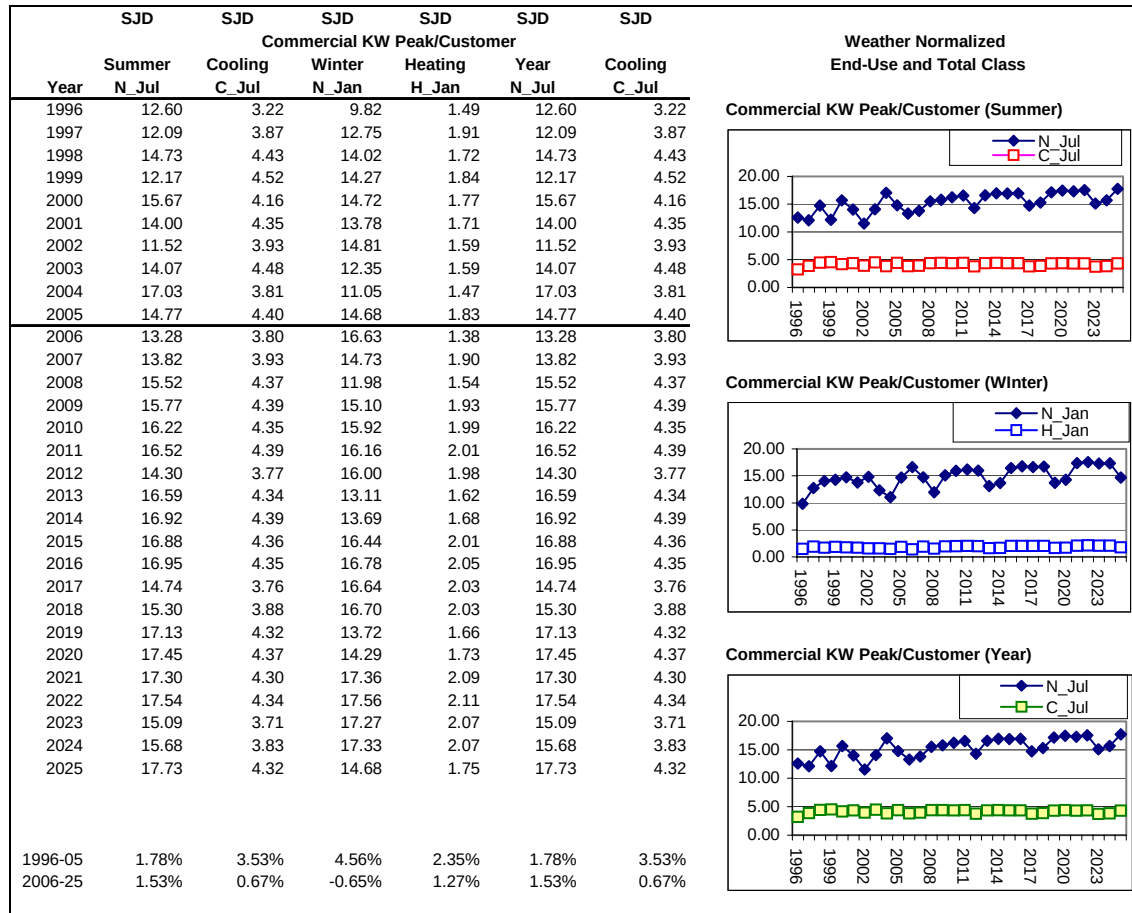
Plot E-37: SJD Residential KW Peak Demand per Customer by End Use



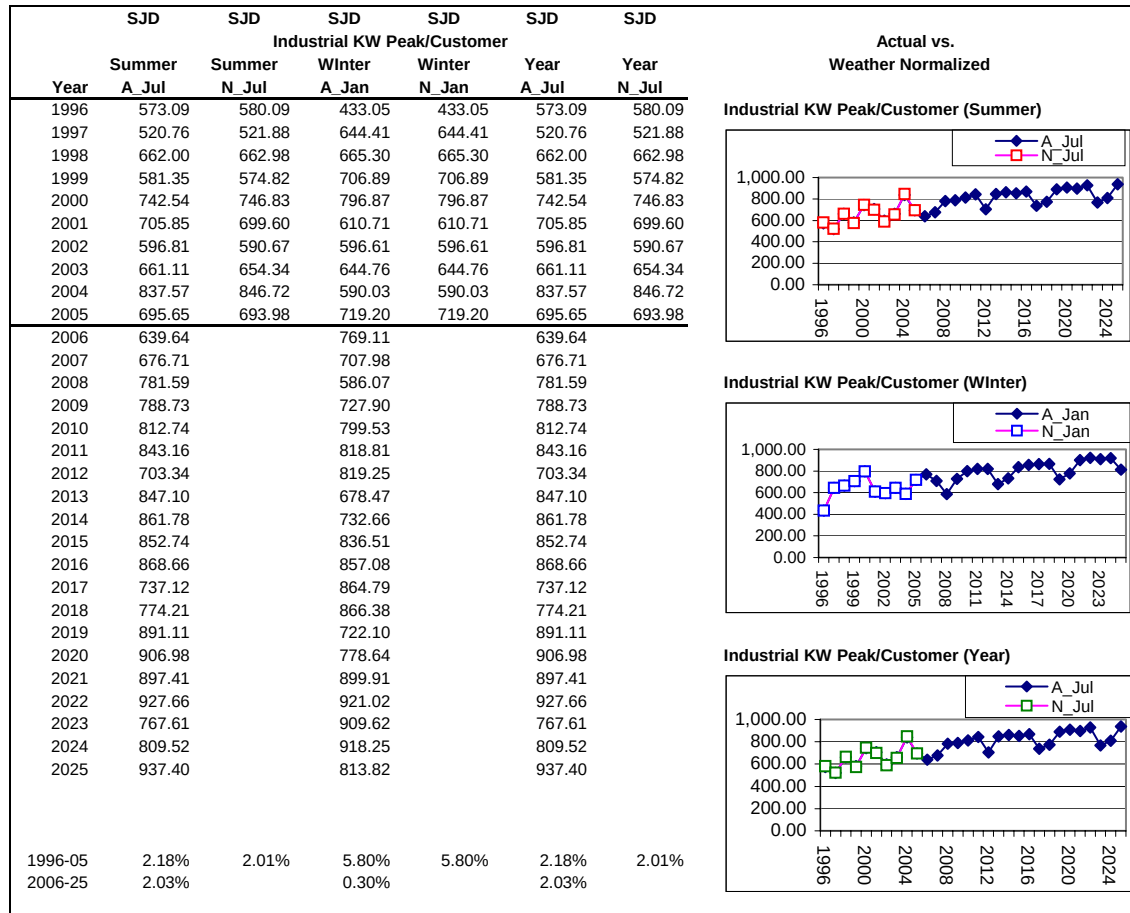
Plot E-38: SJD Commercial KW Peak Demand per Customer
(Actual vs. Weather Normalized)



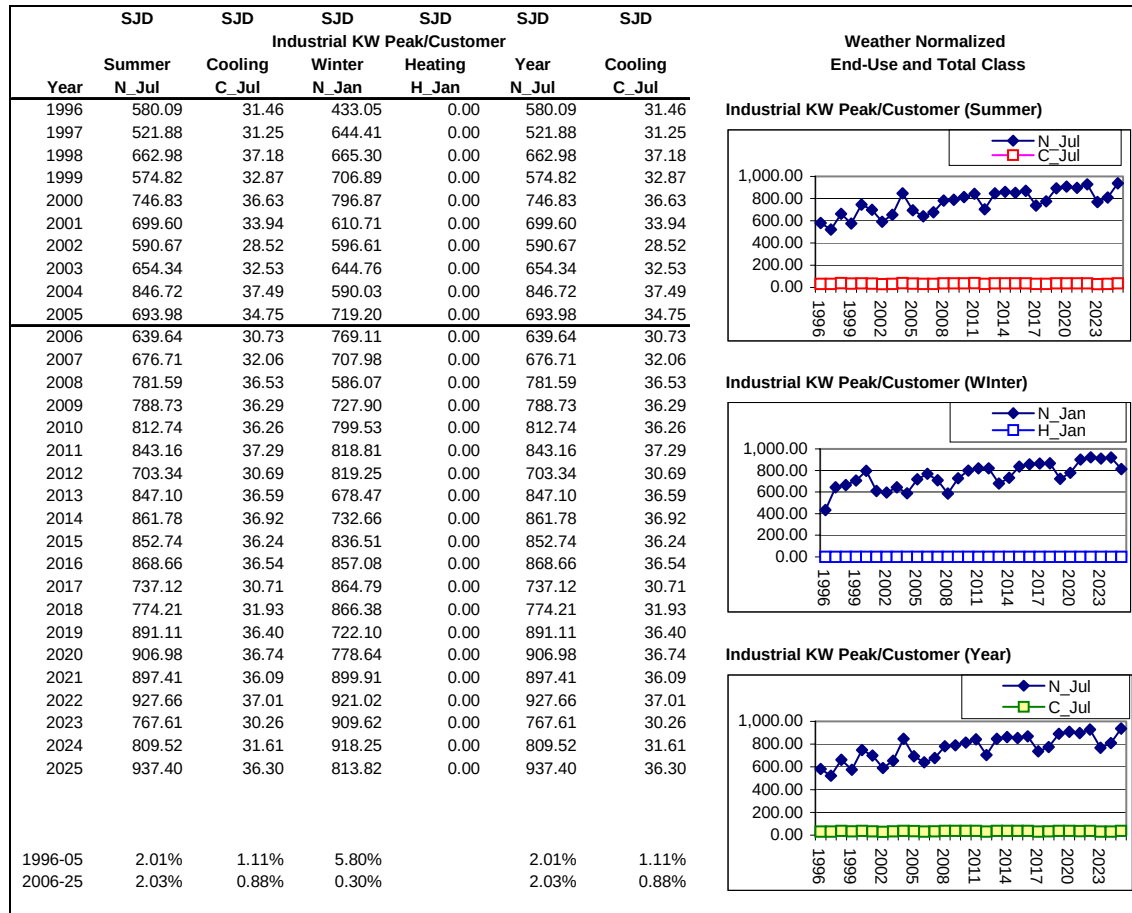
Plot E-39: SJD Commercial KW Peak Demand per Customer by End Use



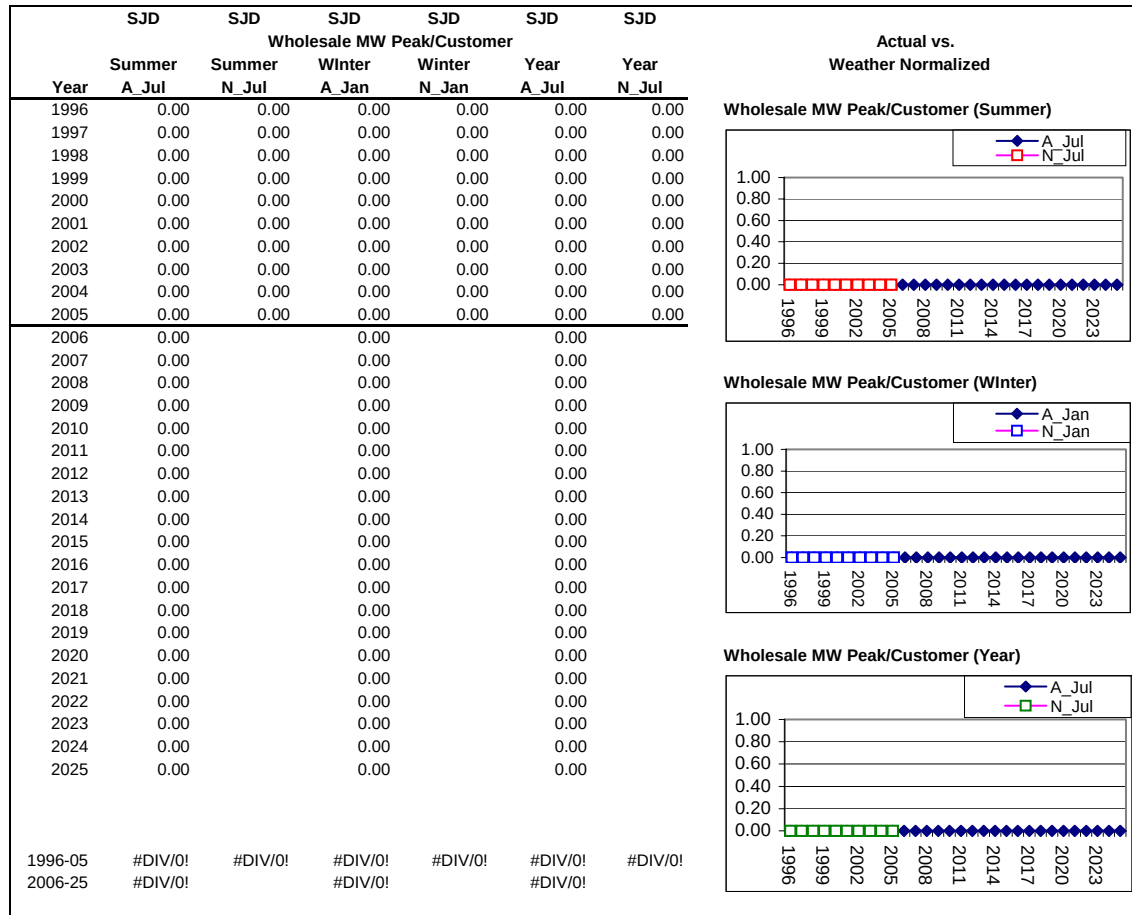
Plot E-40: SJD Industrial KW Peak Demand per Customer
(Actual vs. Weather Normalized)



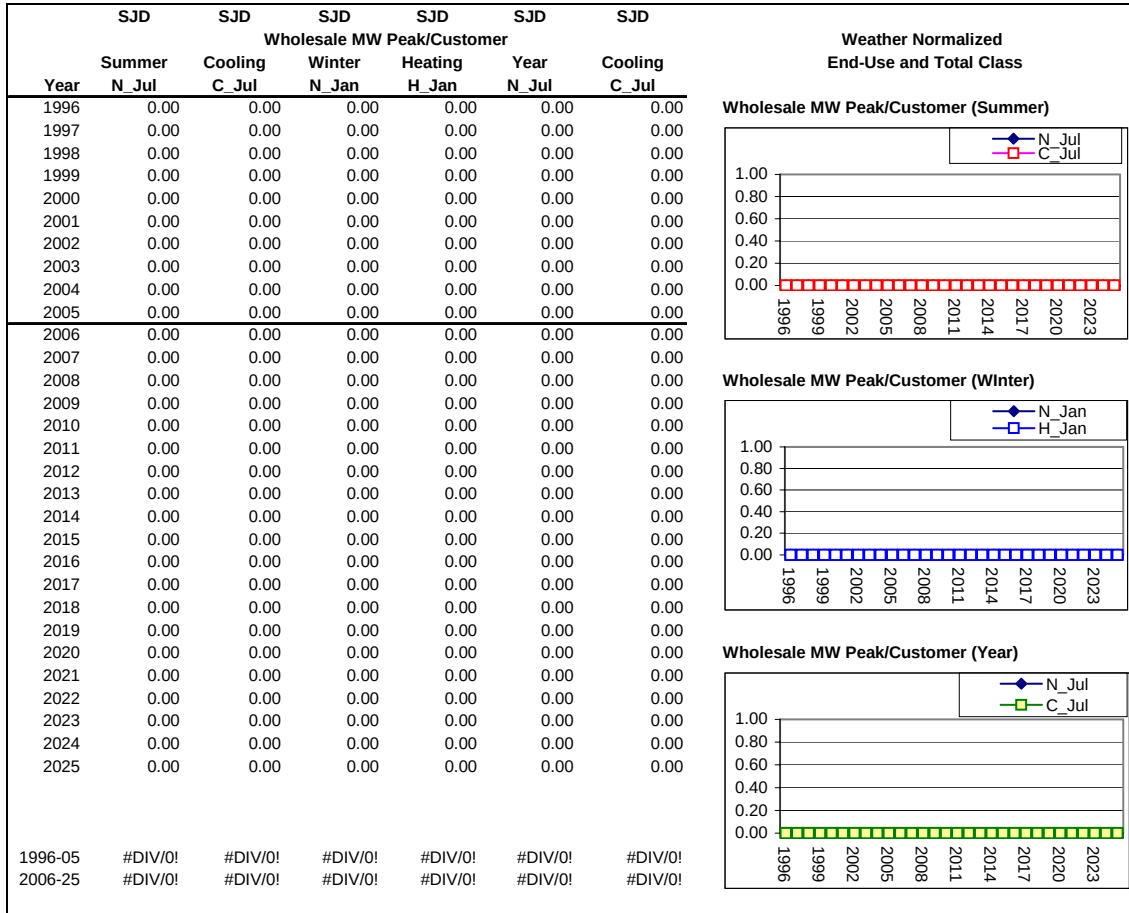
Plot E-41: SJD Industrial KW Peak Demand per Customer by End-Use



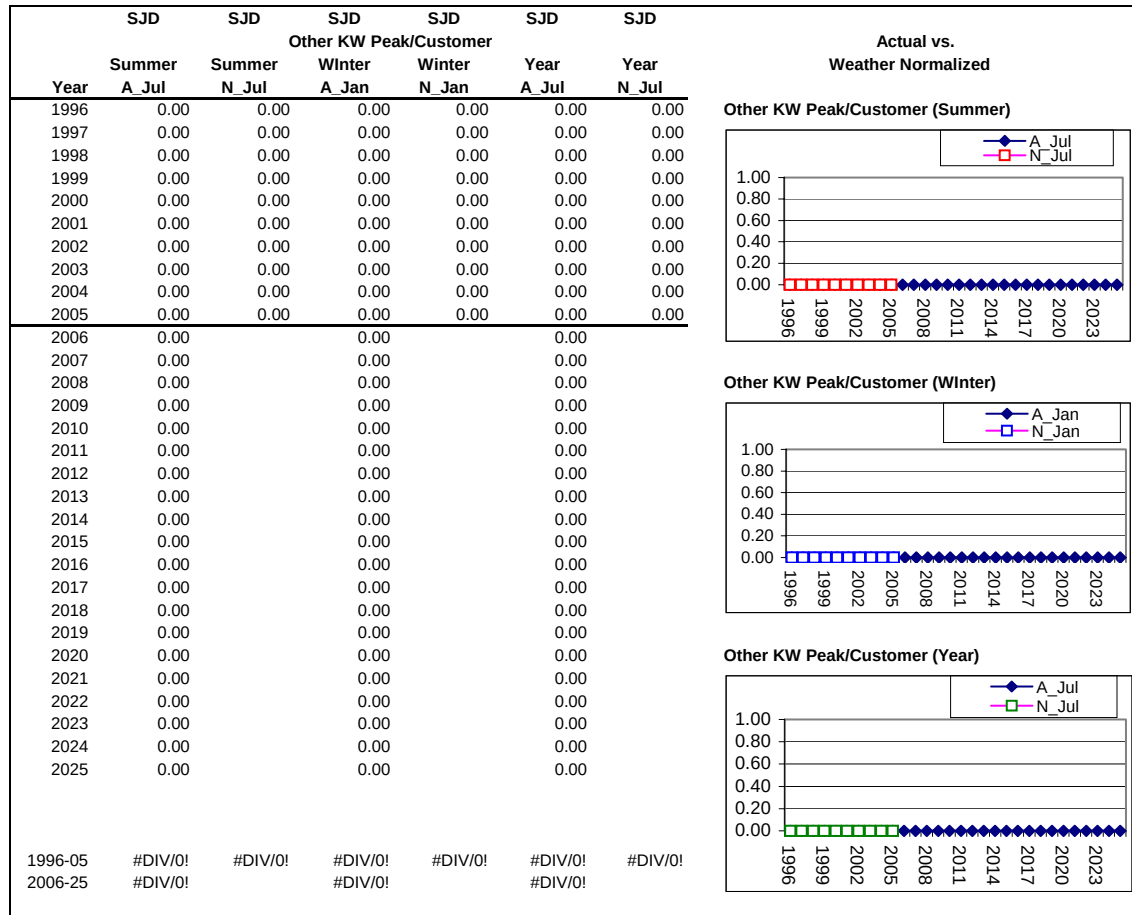
Plot E-42: SJD Wholesale KW Peak Demand per Customer
(Actual vs. Weather Normalized)



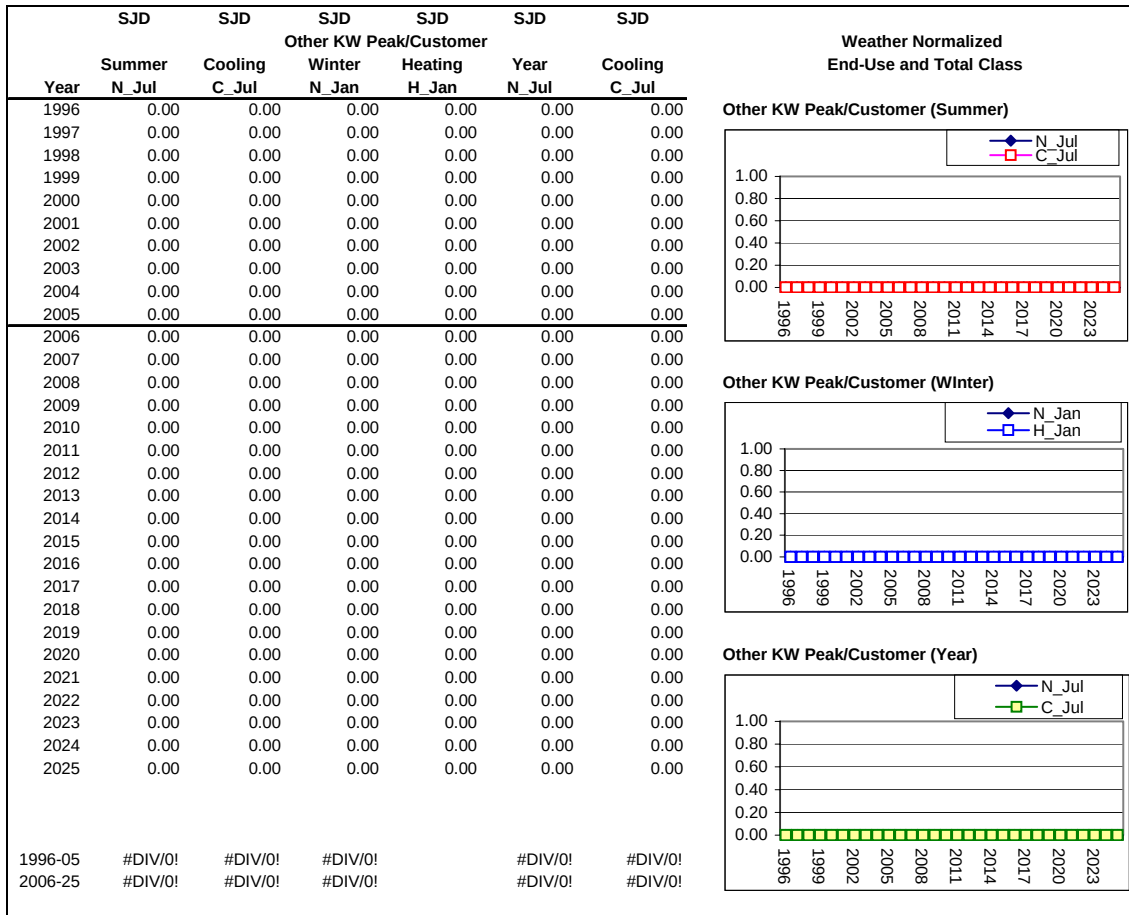
Plot E-43: SJD Wholesale KW Peak Demand per Customer by End-Use



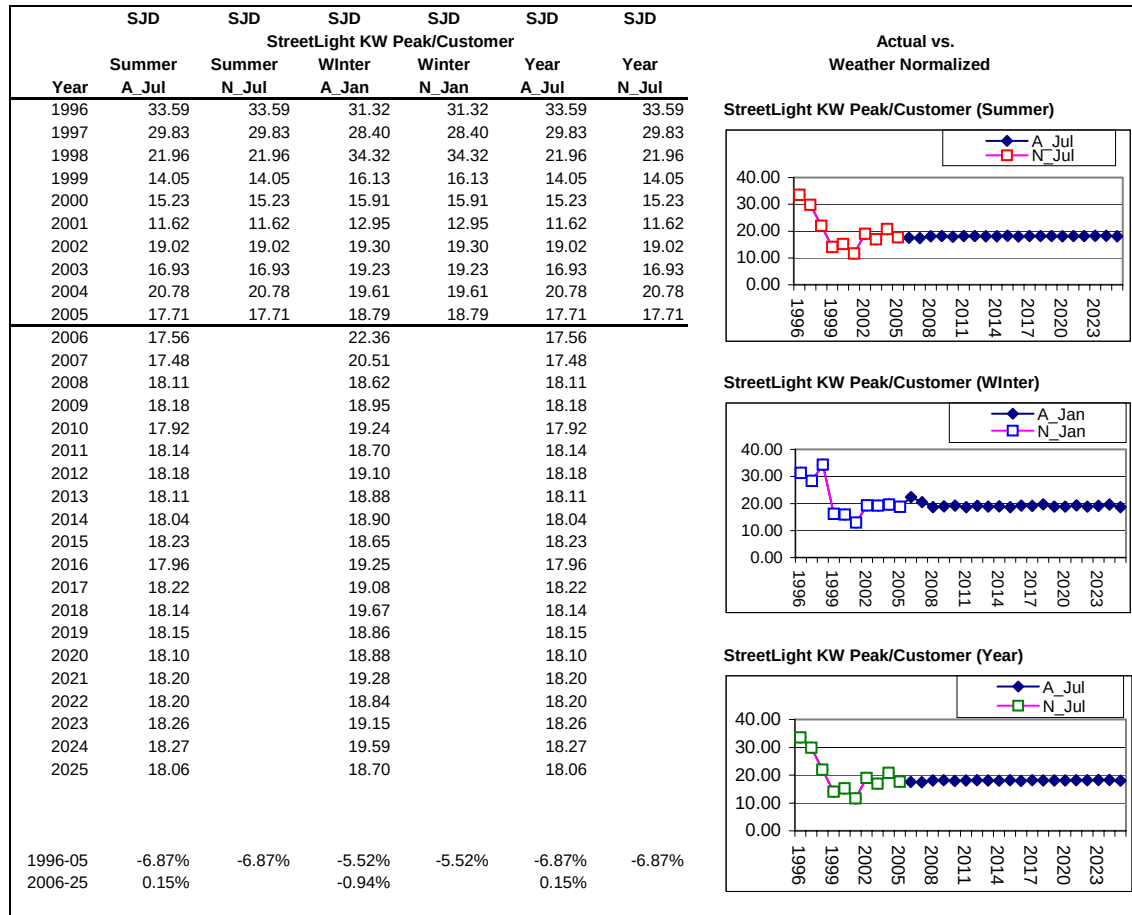
Plot E-44: SJD Other KW Peak Demand per Customer
(Actual vs. Weather Normalized)



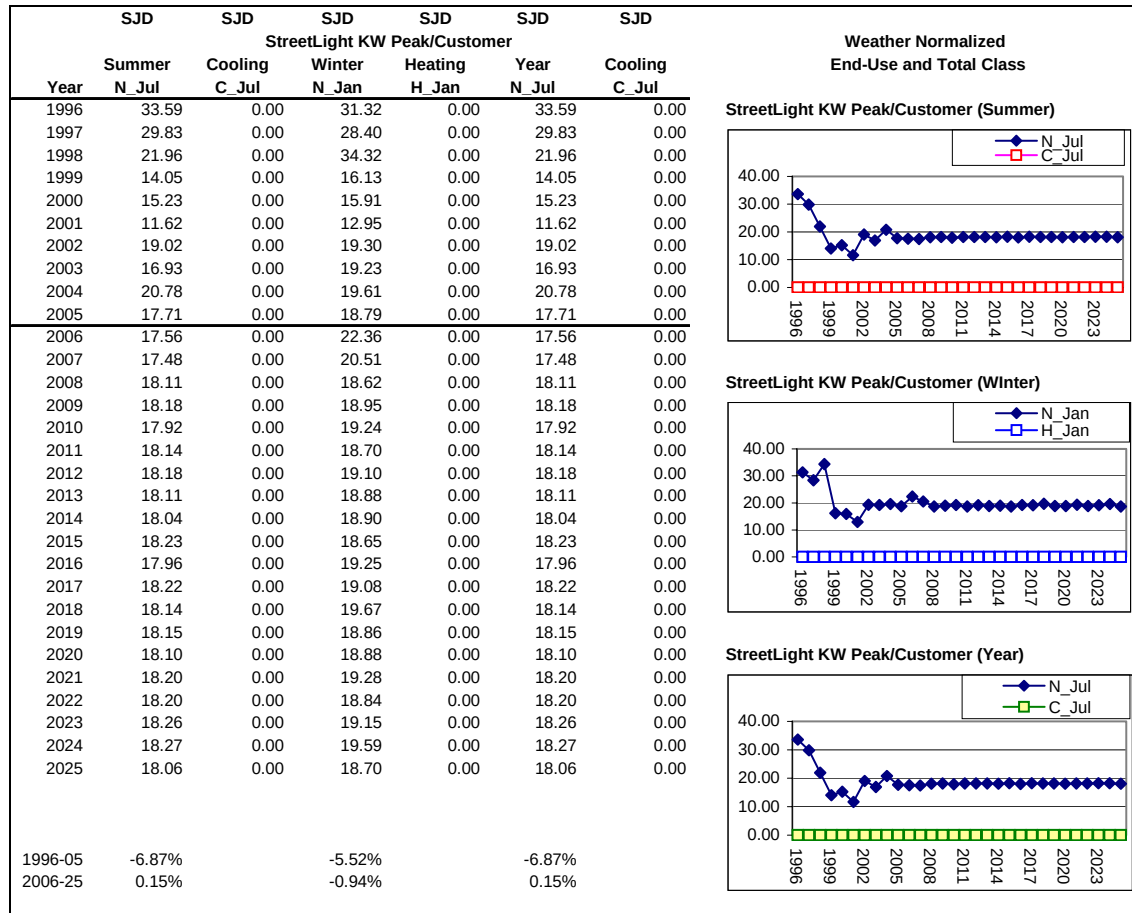
Plot E-45: SJD Other KW Peak Demand per Customer by End-Use



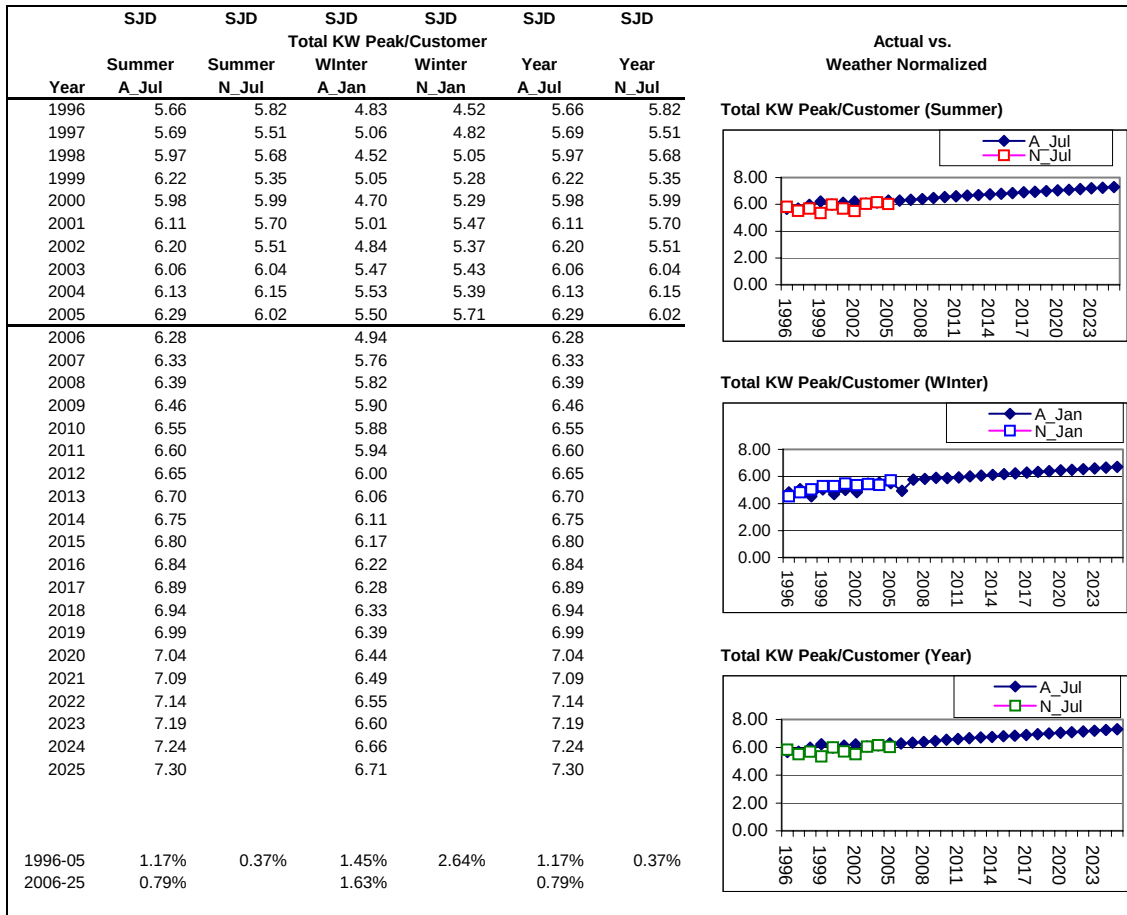
Plot E-46: SJD StreetLight KW Peak Demand per Customer
(Actual vs. Weather Normalized)



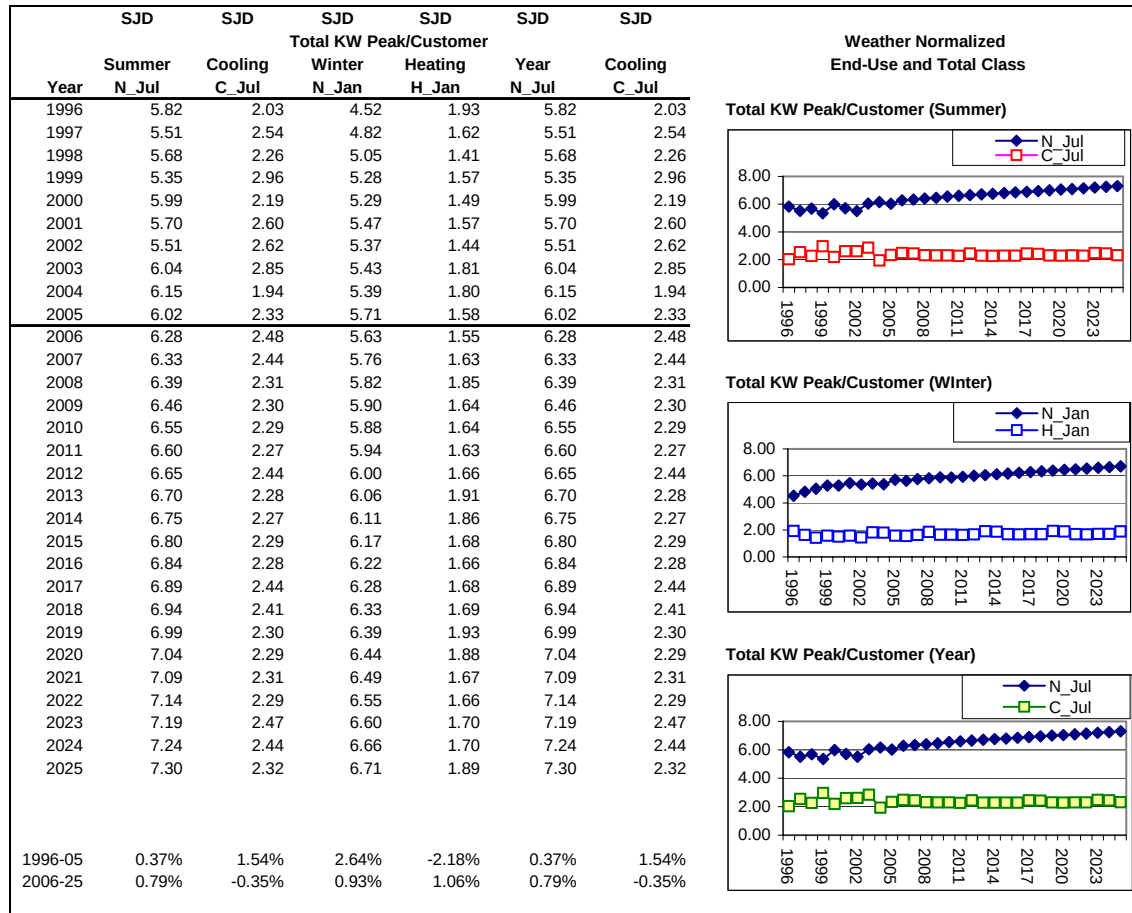
Plot E-47: SJD StreetLight KW Peak Demand per Customer by End-Use



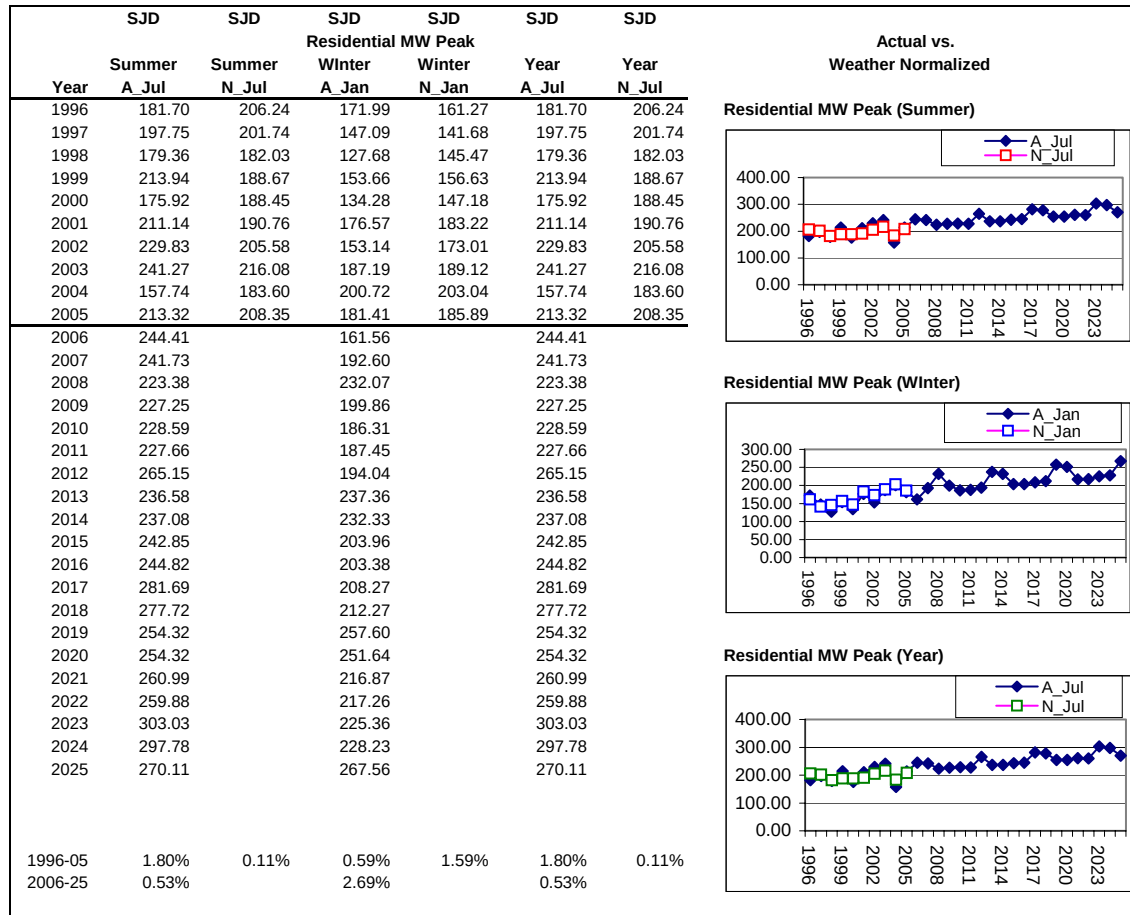
Plot E-48: SJD Total KW Peak Demand per Customer
(Actual vs. Weather Normalized)



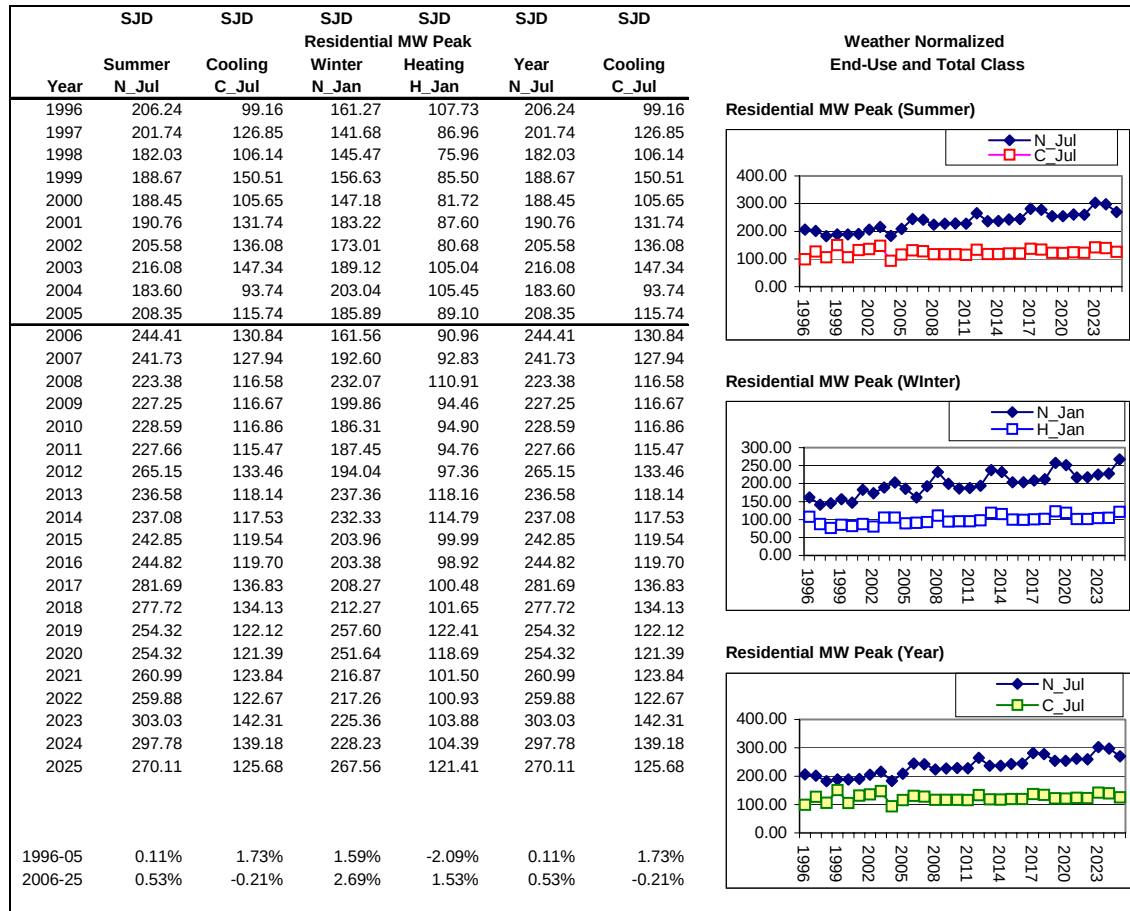
Plot E-49: SJD Total KW Peak Demand per Customer by End-Use



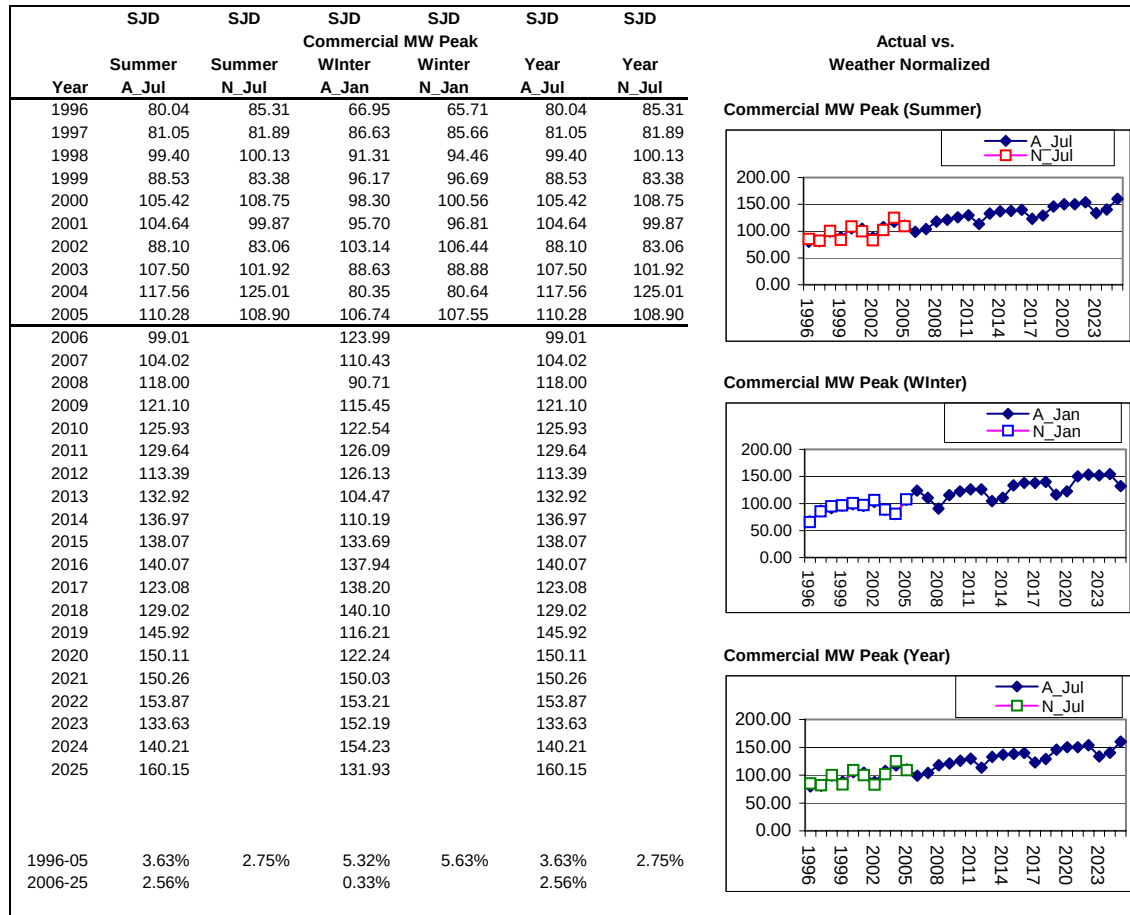
Plot E-50: SJD Residential MW Peak Demand
(Actual vs. Weather Normalized)



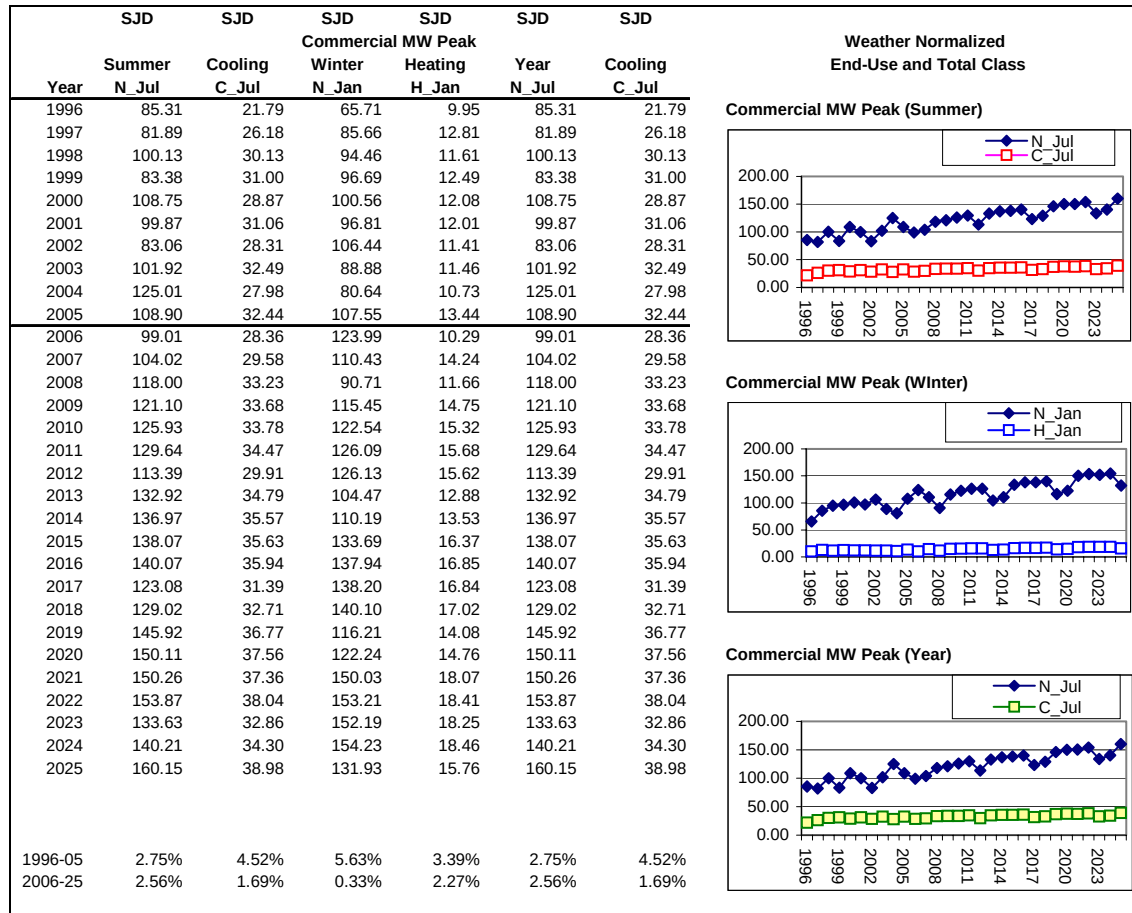
Plot E-51: SJD Residential MW Peak Demand by End-Use



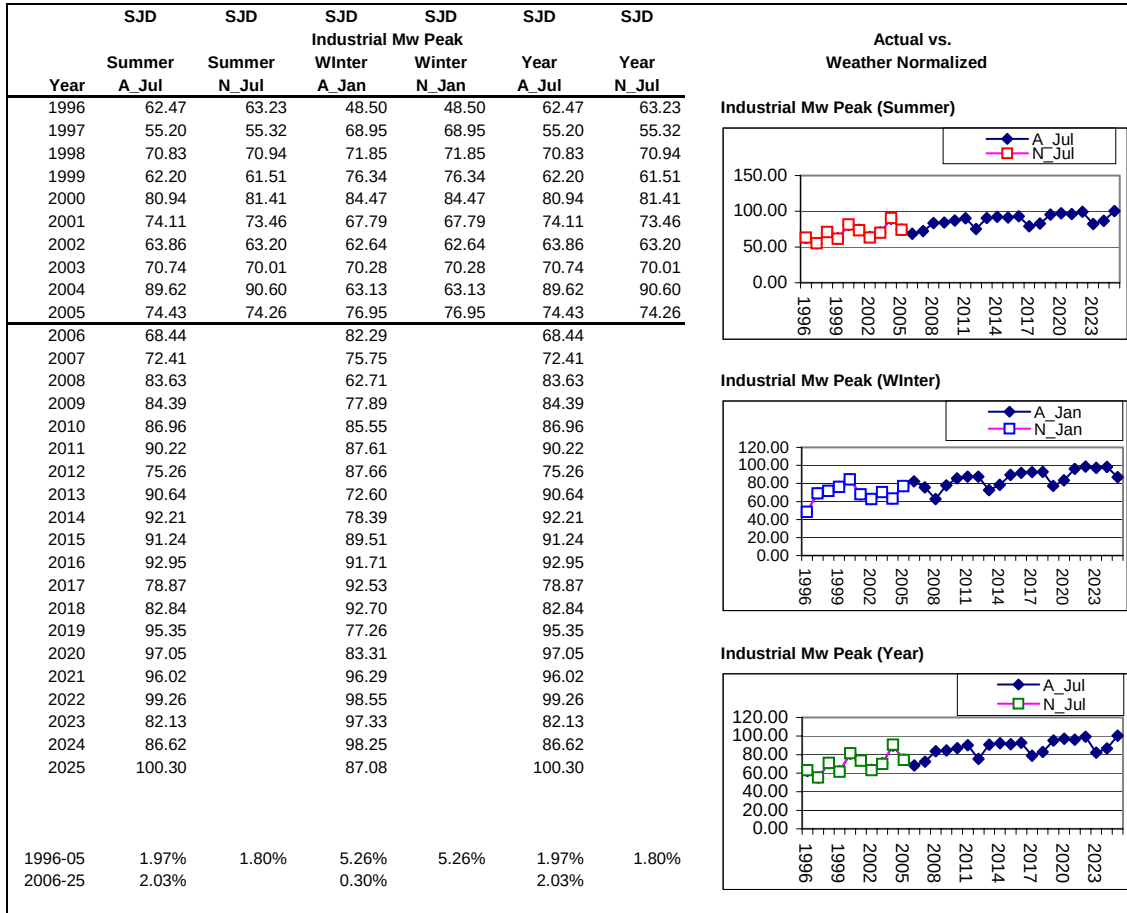
Plot E-52: SJD Commercial MW Peak Demand
(Actual vs. Weather Normalized)



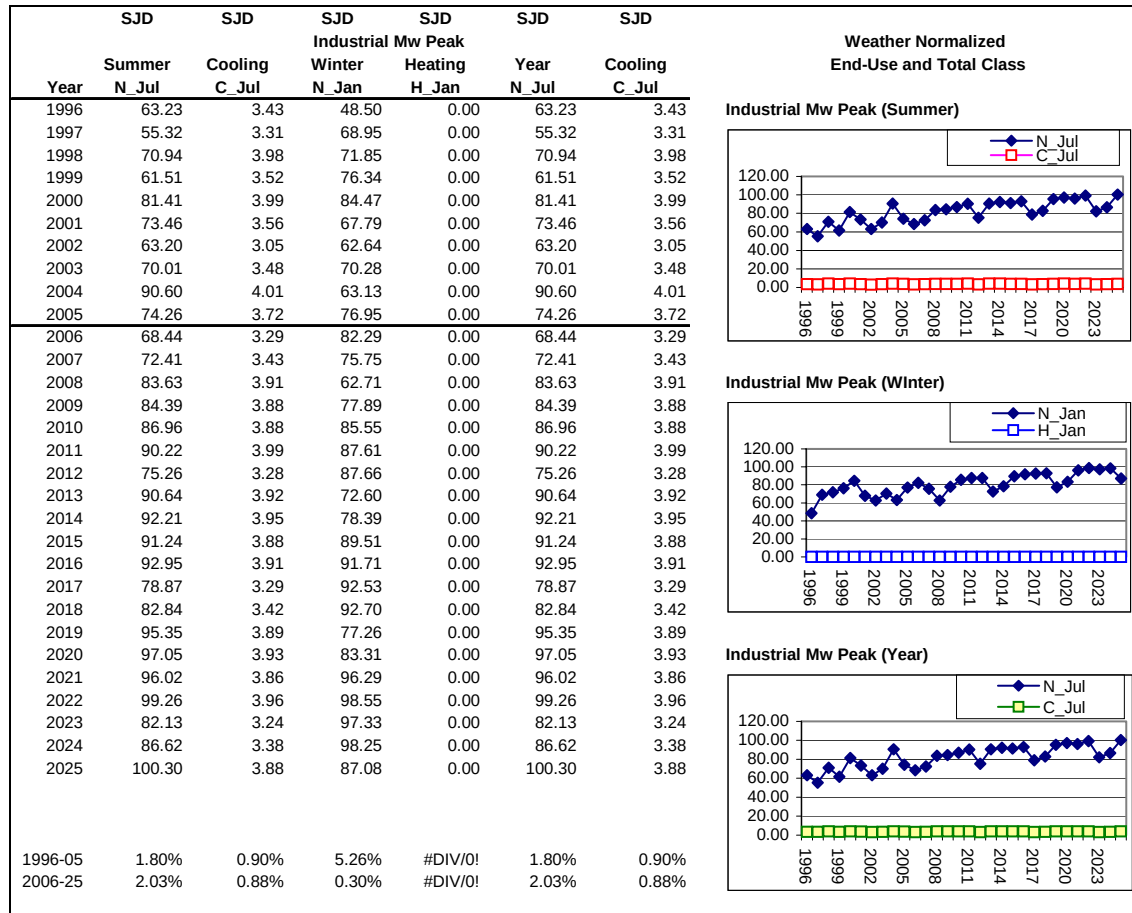
Plot E-53: SJD Commercial MW Peak Demand by End-Use



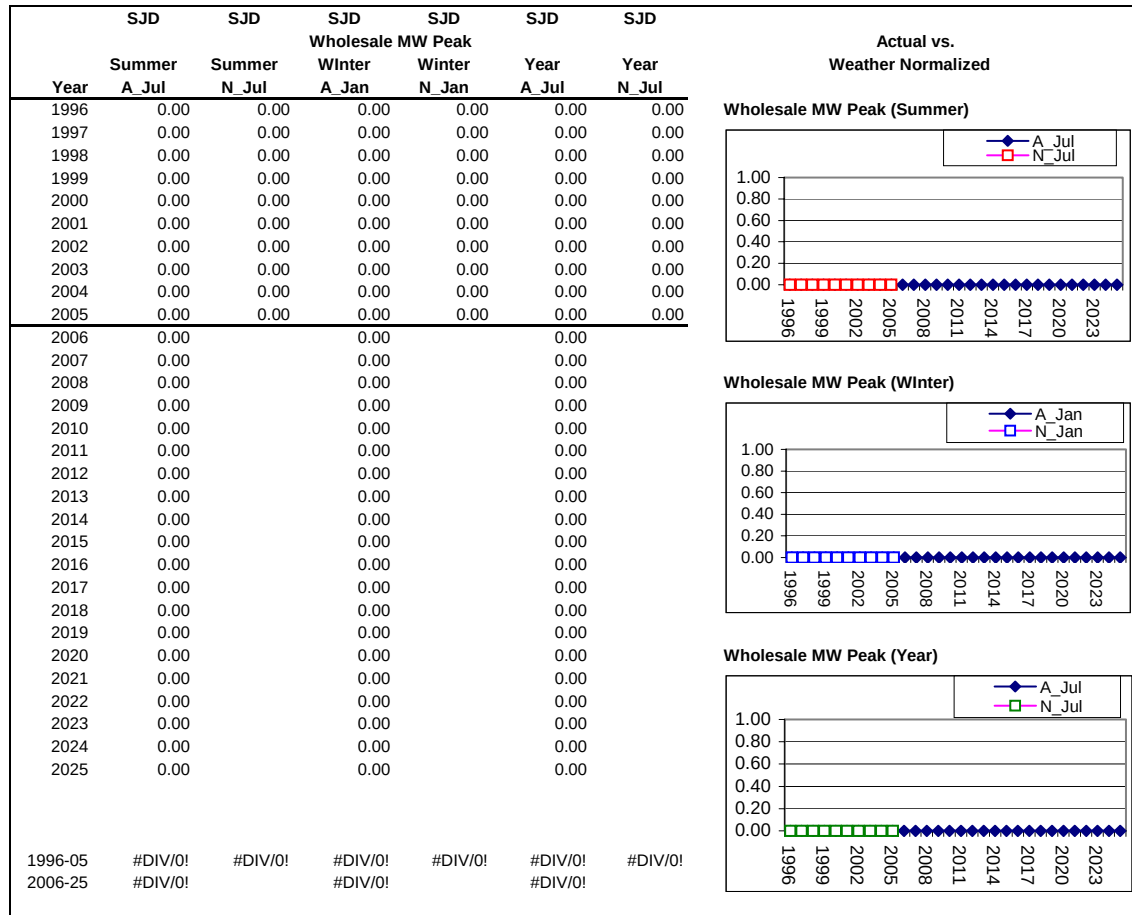
Plot E-54: SJD Industrial MW Peak Demand
(Actual vs. Weather Normalized)



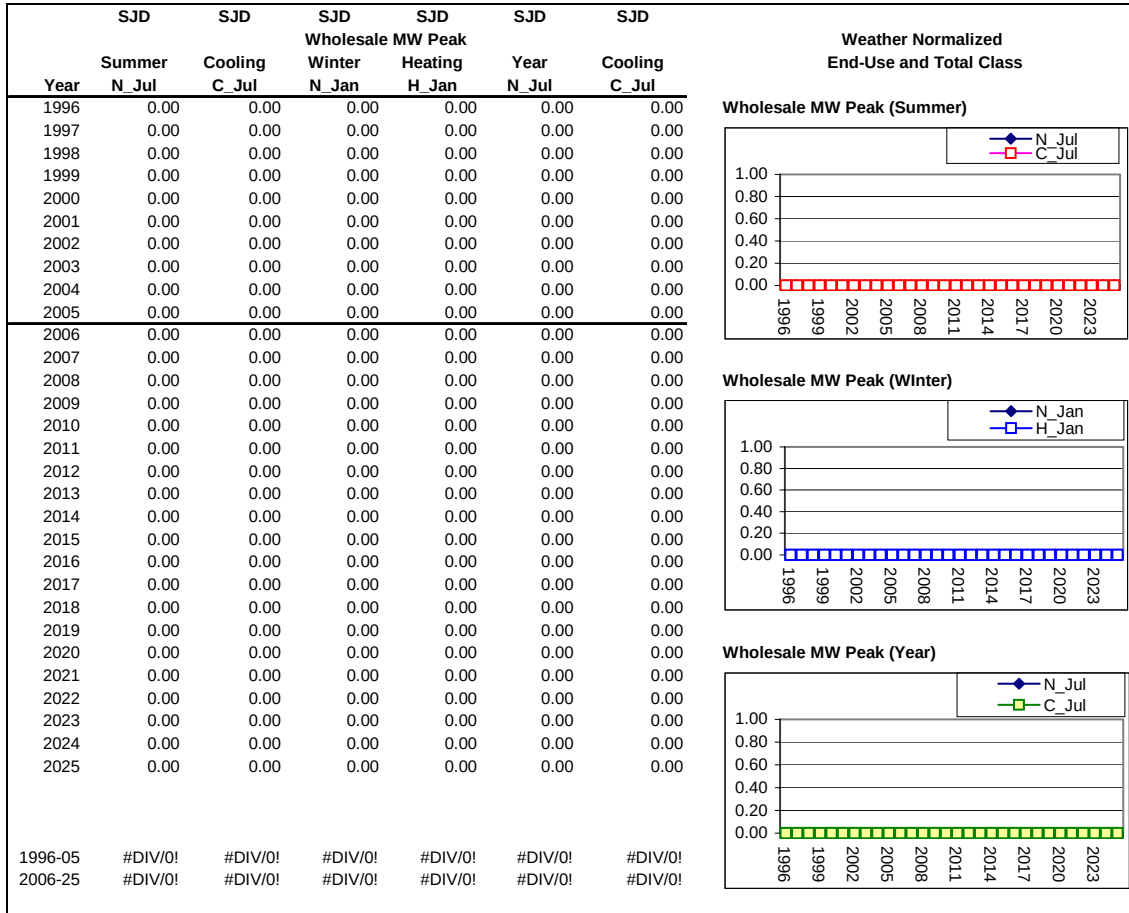
Plot E-55: SJD Industrial MW Peak Demand by End-Use



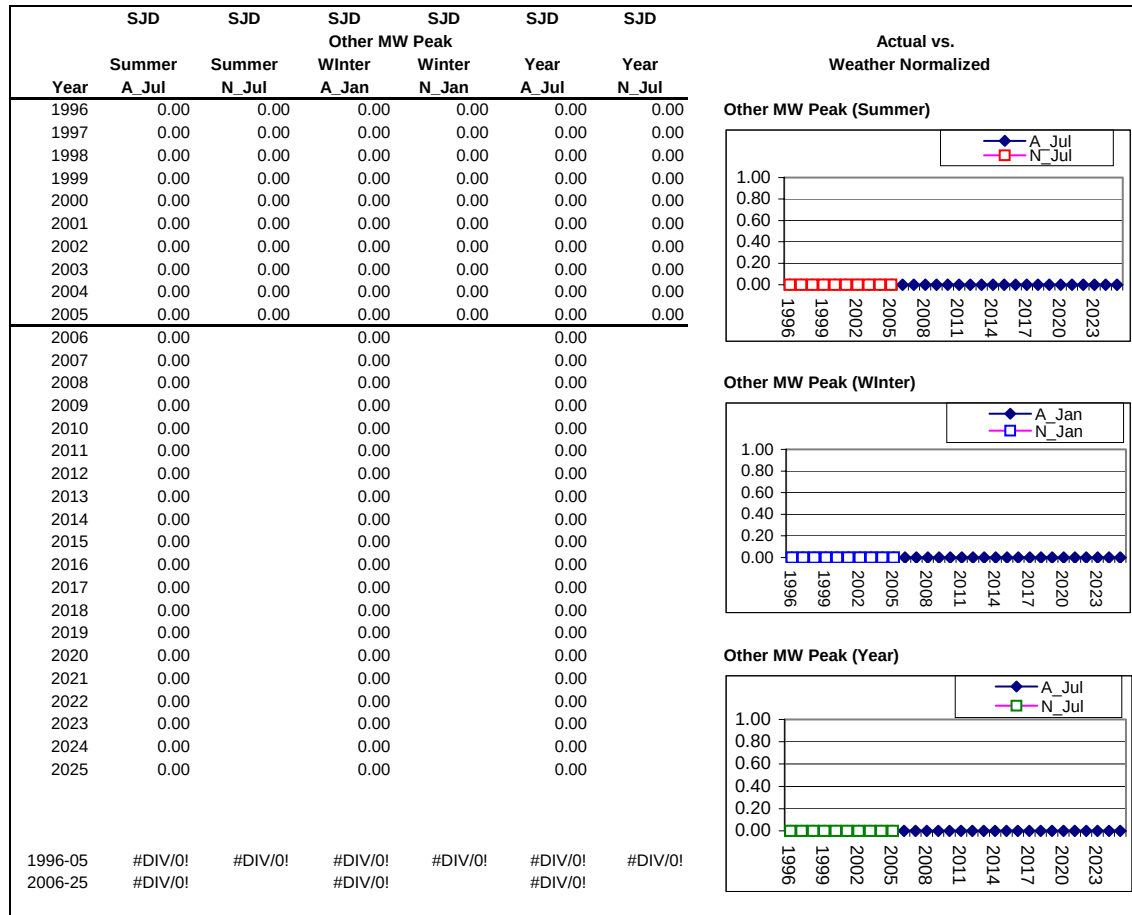
Plot E-56: SJD Wholesale MW Peak Demand
(Actual vs. Weather Normalized)



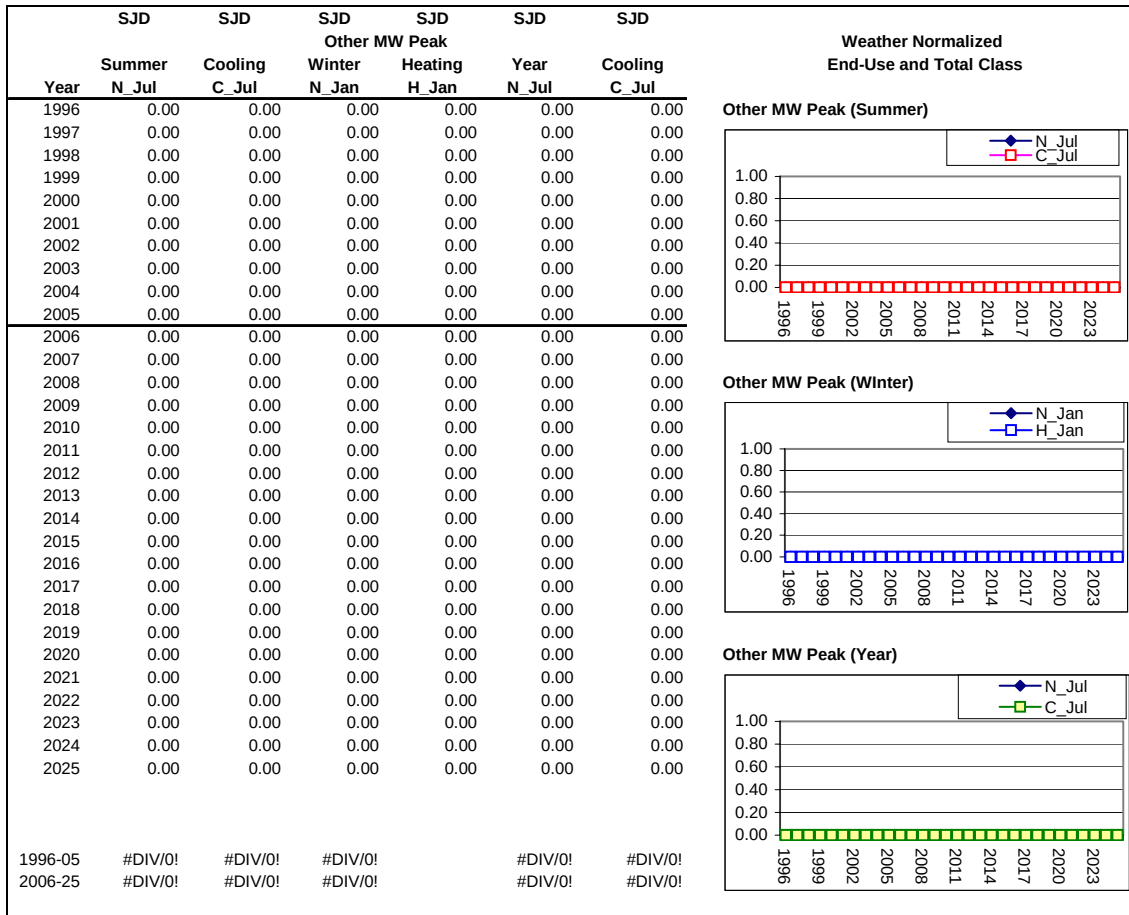
Plot E-57: SJD Wholesale MW Peak Demand by End-Use



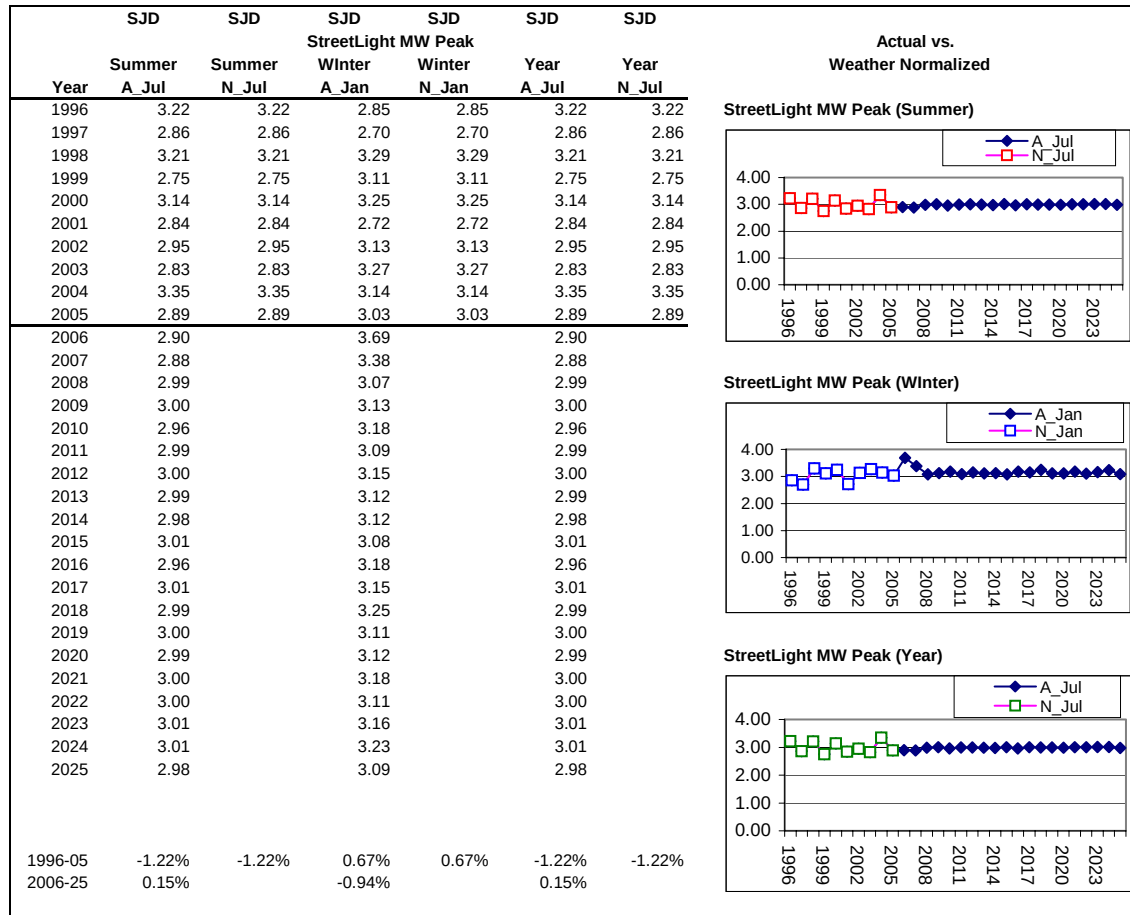
Plot E-58: SJD Other MW Peak Demand
(Actual vs. Weather Normalized)



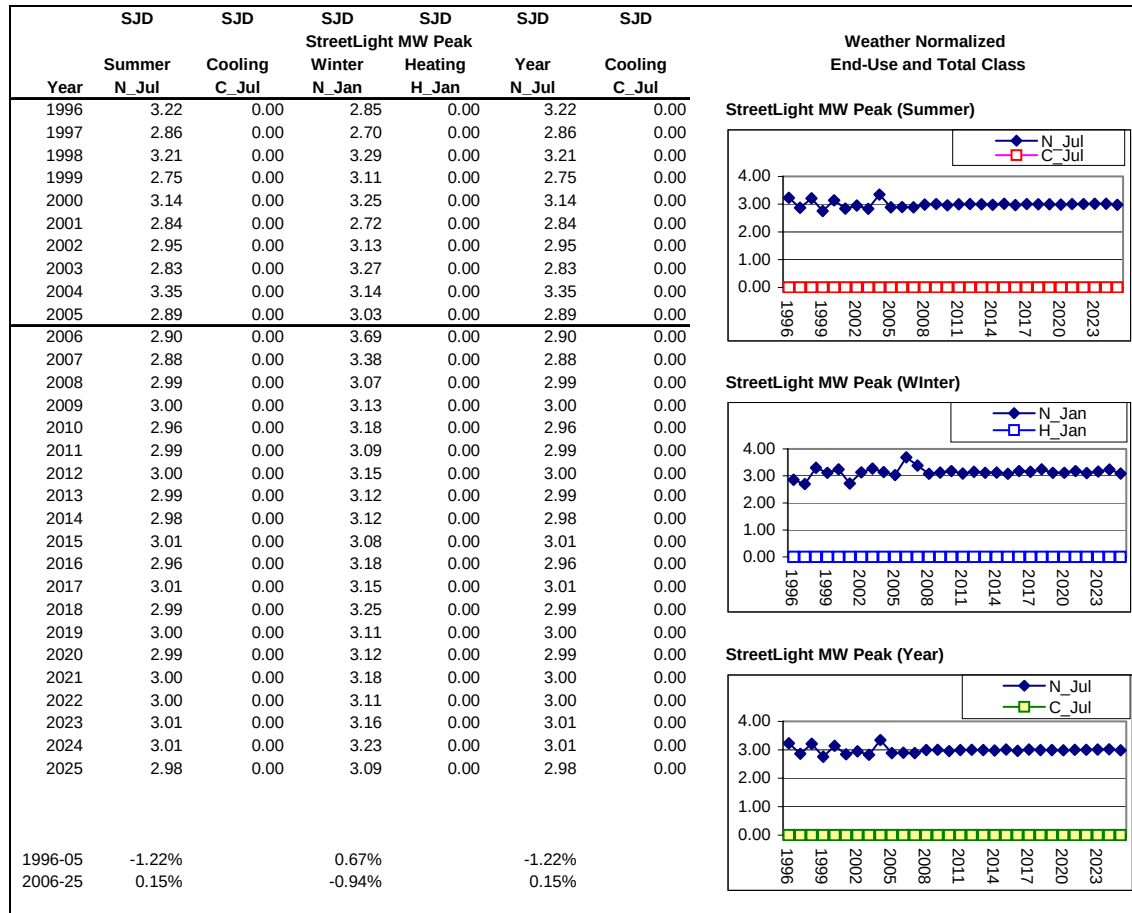
Plot E-59: SJD Other MW Peak Demand by End-Use



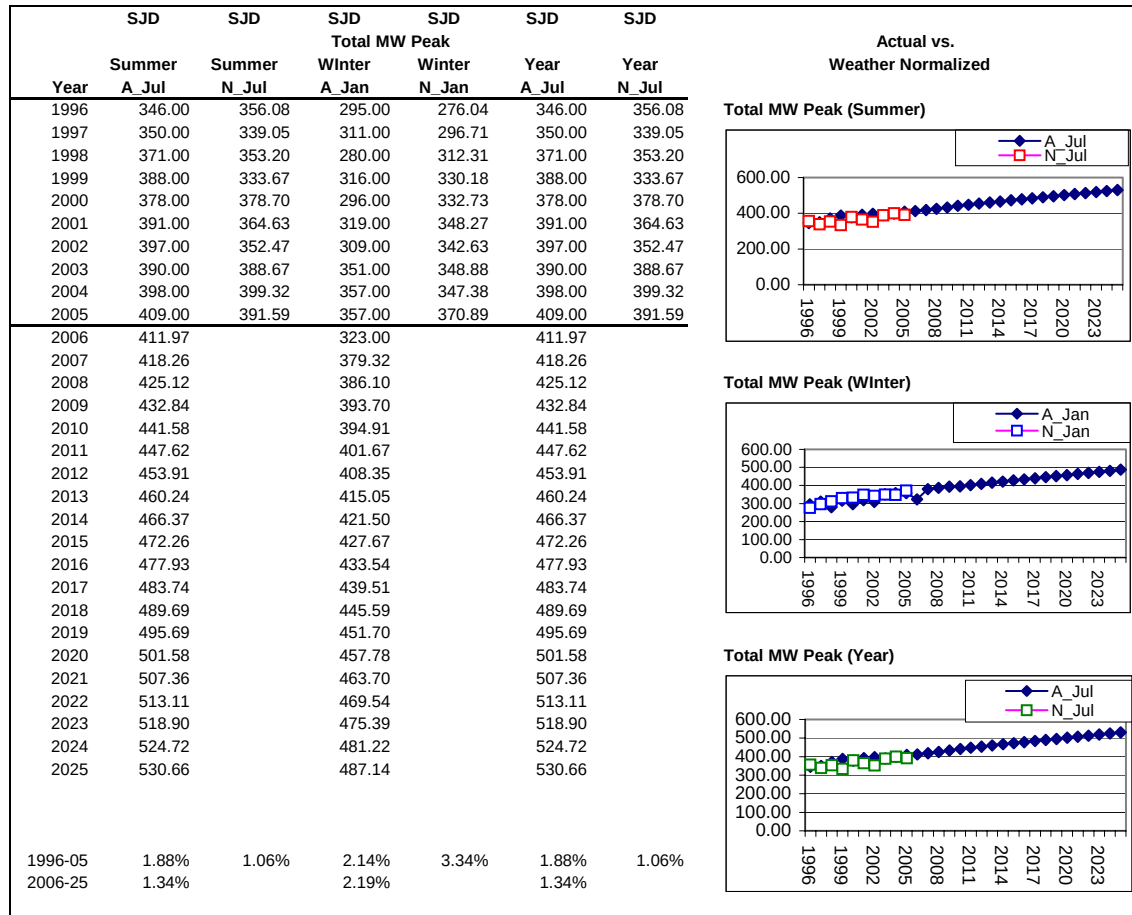
Plot E-60: SJD StreetLight MW Peak Demand
(Actual vs. Weather Normalized)



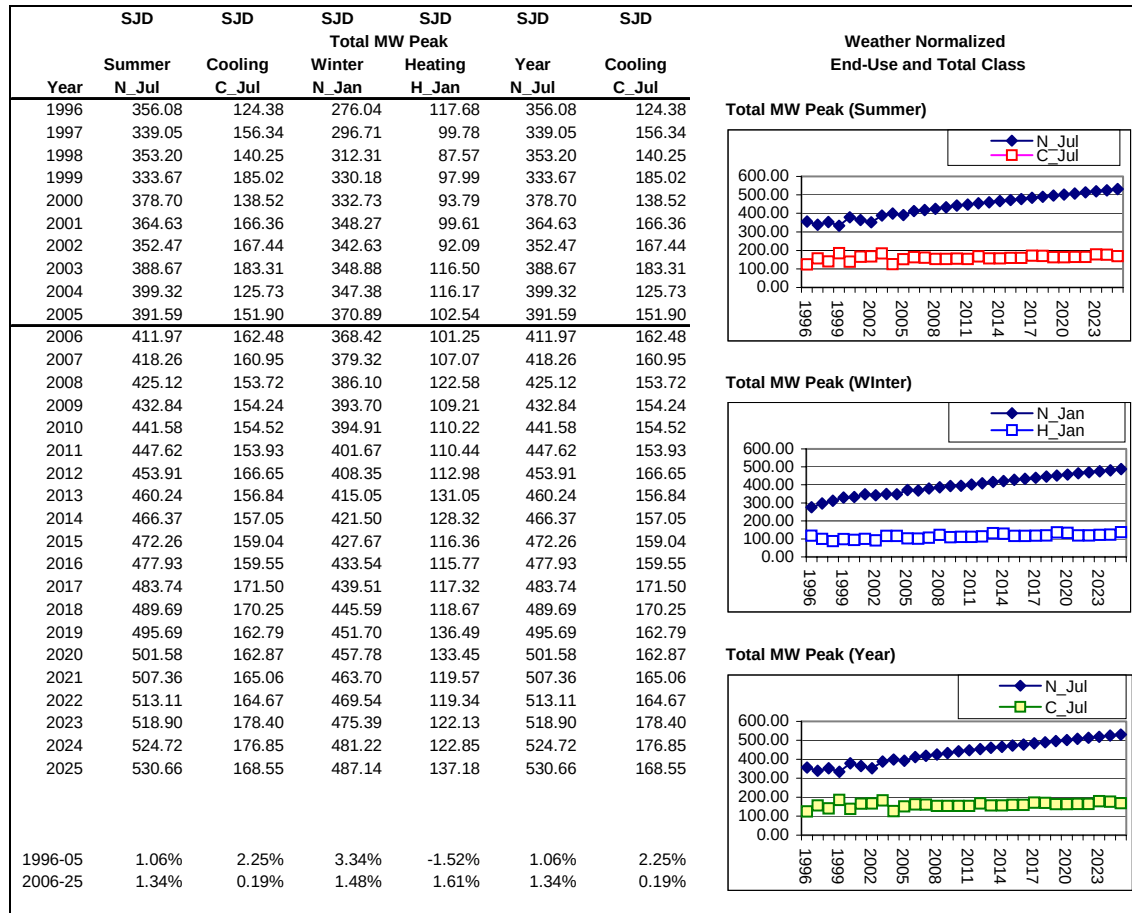
Plot E-61: SJD StreetLight MW Peak Demand by End-Use



Plot E-62: SJD Total MW Peak Demand
(Actual vs. Weather Normalized)



Plot E-63: SJD Total MW Peak Demand by End-Use



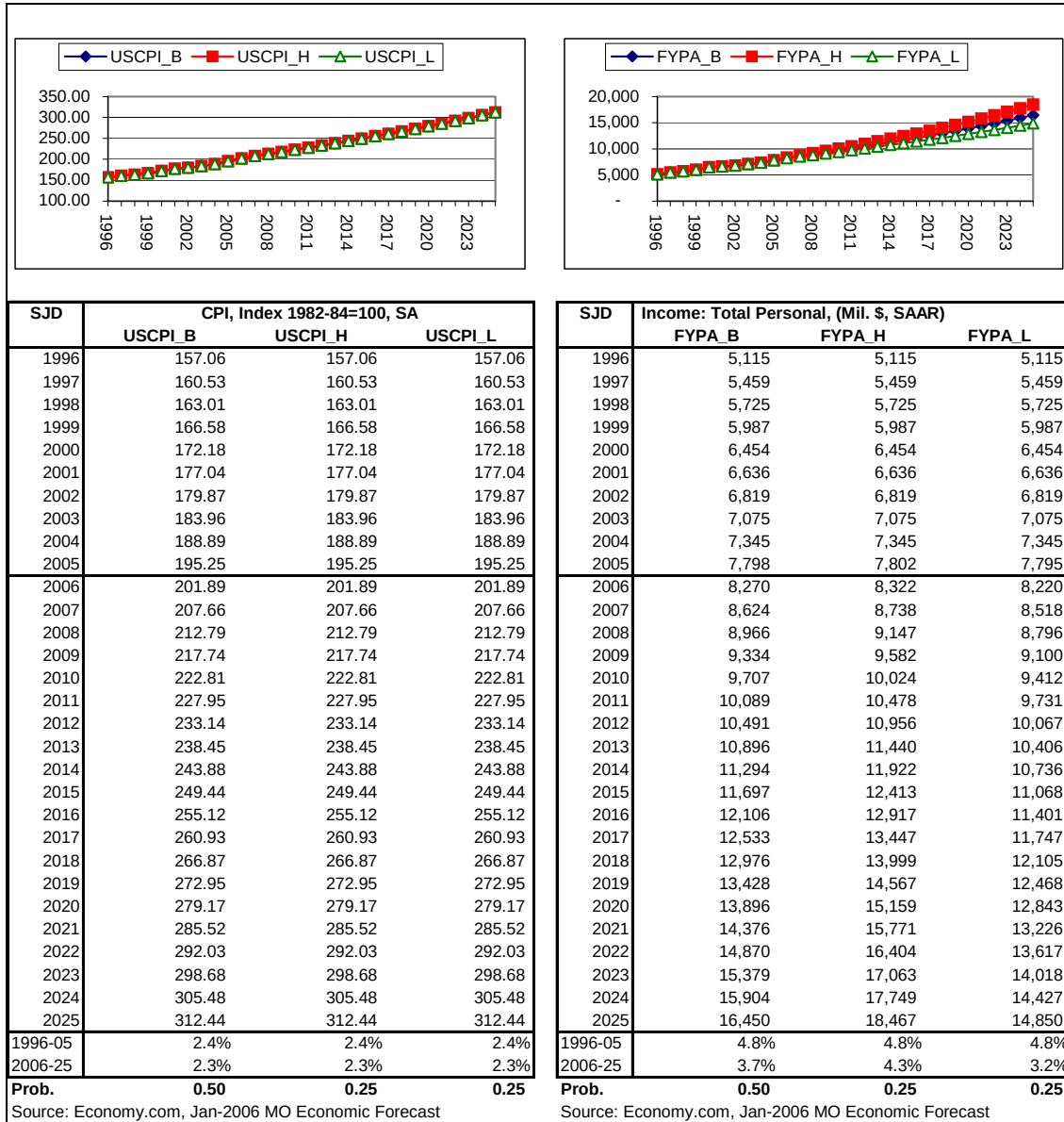
Missouri 4 CSR 240-22.030 (8) Reporting Requirements
Load Analysis and Forecasting

(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.

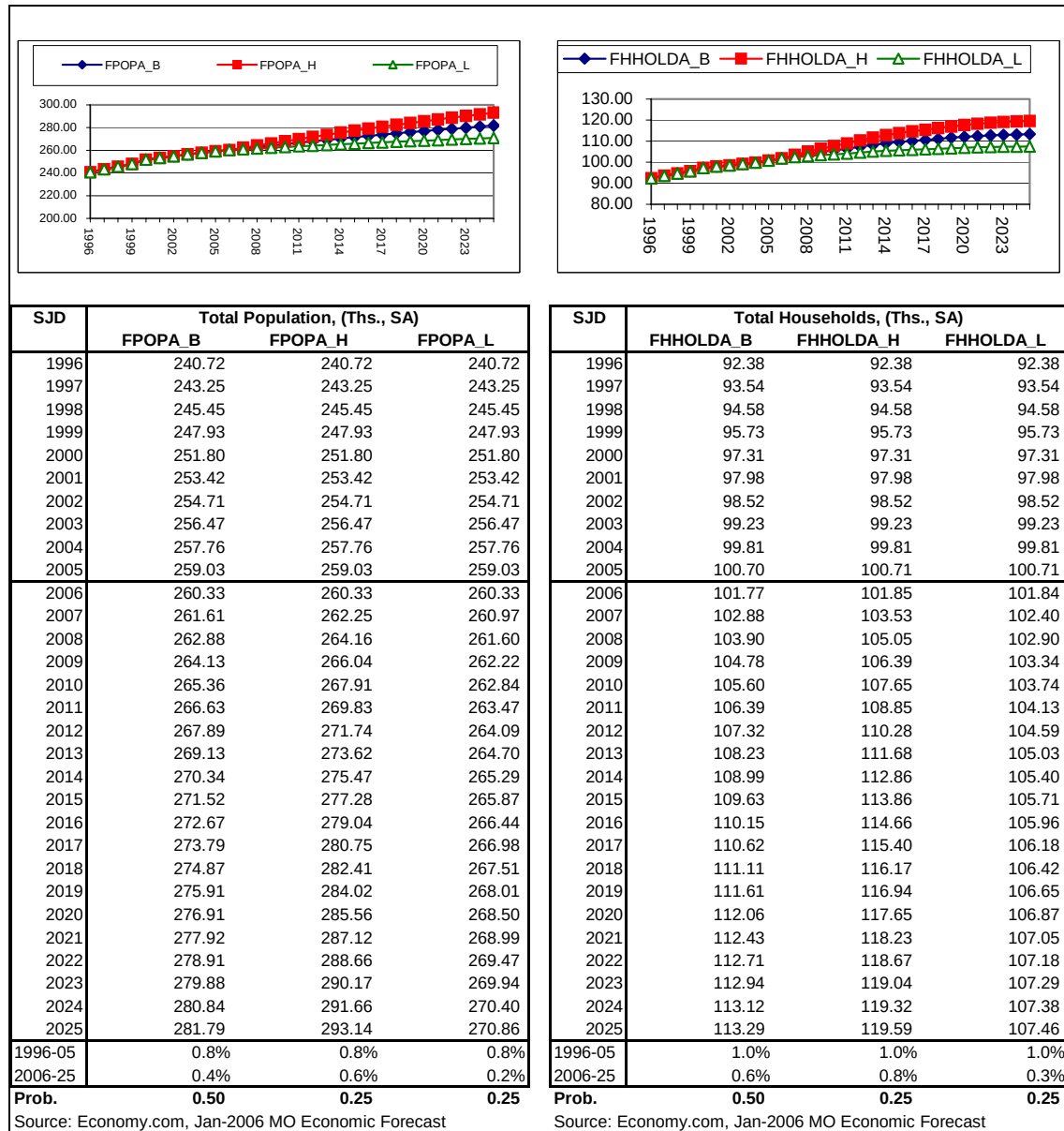
Compliance: See Plots E-64 through E-72 for SJLP forecast sensitivity reports designed to comply with section (8)(C) reporting requirements.

Linked Files: Aquila Networks – St. Joseph Light & Power (SJLP)
8C_SJD_M2007F_Sensitivity.xls

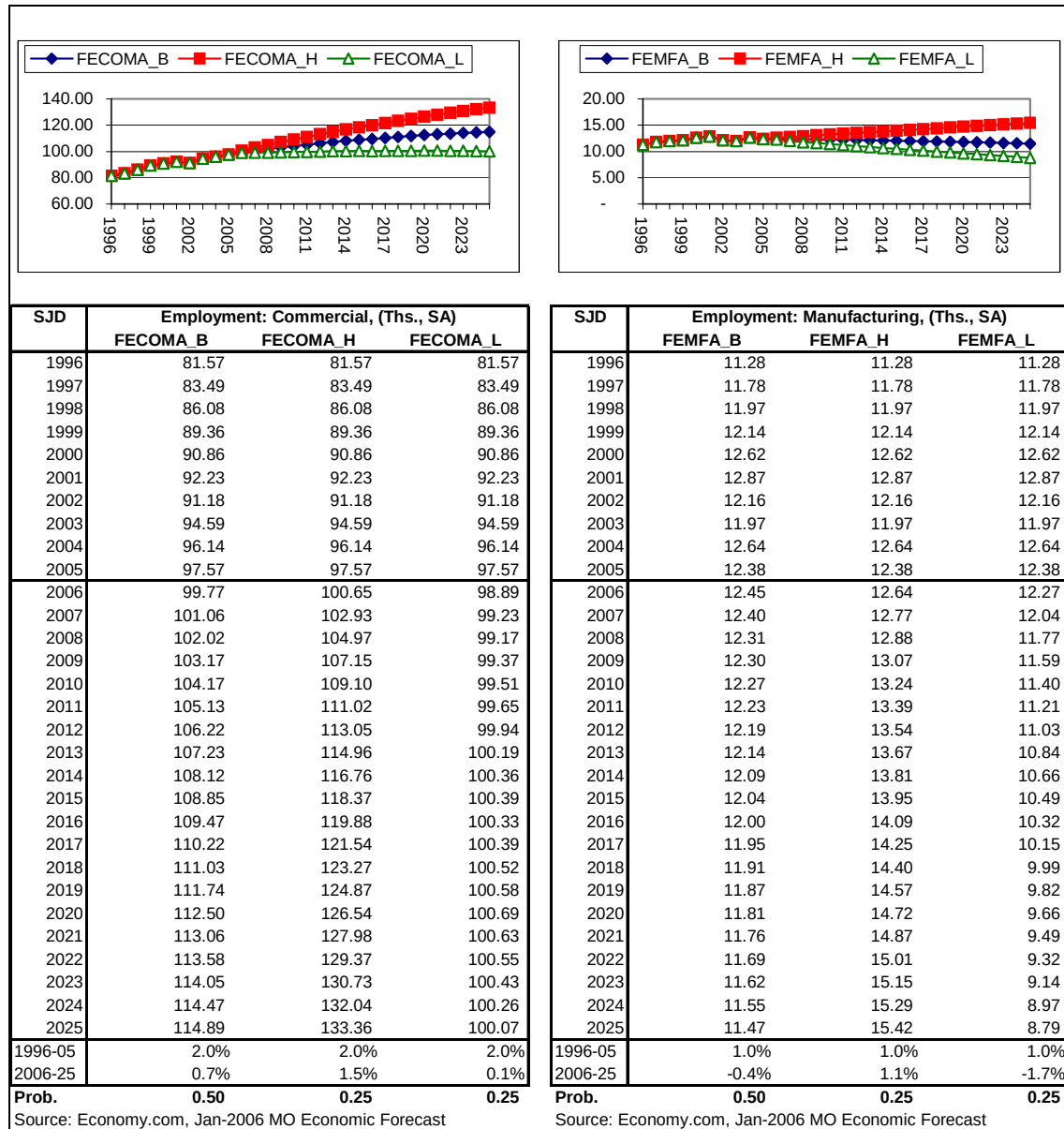
Plot E-64: SJD Forecast Driver Variables – Residential Use Per Customer
(Scenarios: Base, High, Low)



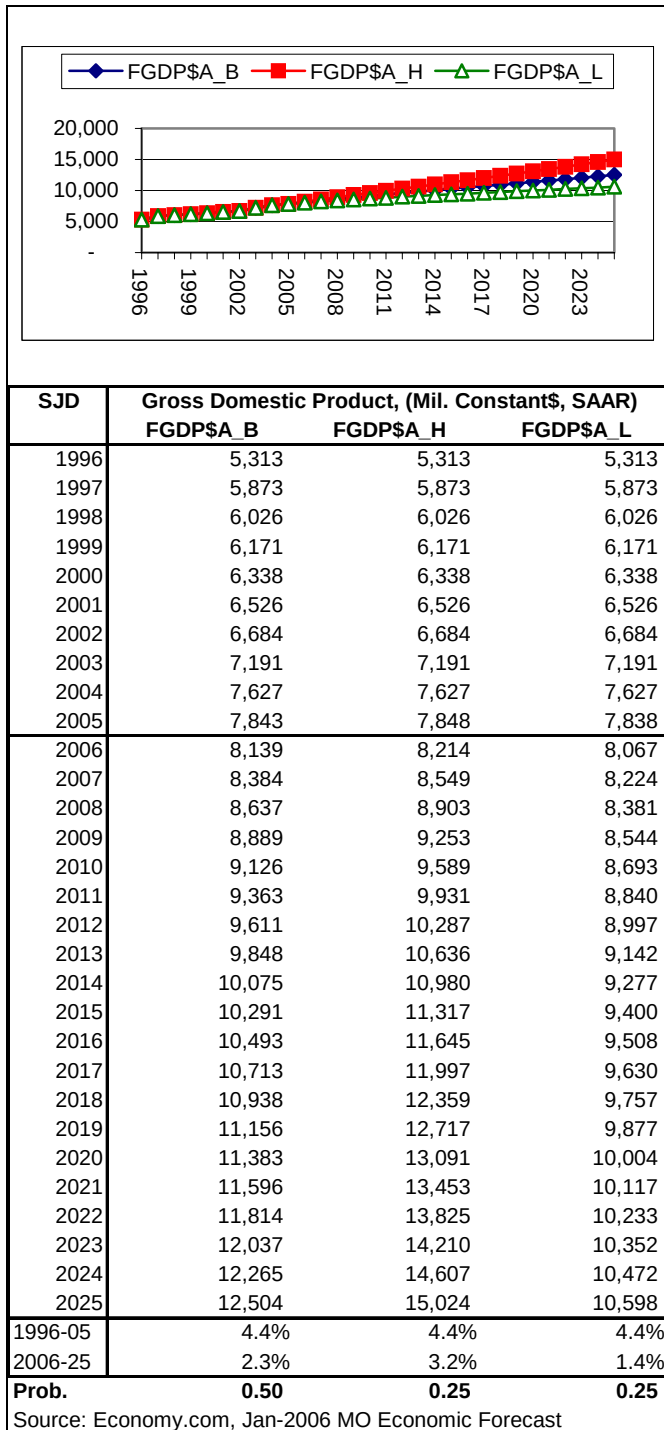
Plot E-65: SJD Forecast Driver Variables – Residential Customers
(Scenarios: Base, High, Low)



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



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



Plot E-68: SJD Forecast Sensitivity – Base-case
(50% probability)

Aquila-MO SJD										
Case: Base-case										
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	611.12	456.10	450.83	0.00	0.00	9.53	1,527.59	1,658.44	346	54.2%
1997	624.48	472.00	467.39	0.00	0.00	9.24	1,573.11	1,680.65	350	54.8%
1998	632.58	490.69	500.43	0.00	0.00	9.68	1,633.39	1,770.99	376	53.8%
1999	625.64	501.43	531.50	0.00	0.00	9.85	1,668.42	1,801.38	388	53.0%
2000	662.25	542.11	540.45	0.00	0.00	9.88	1,754.68	1,934.60	403	54.3%
2001	670.62	539.95	511.61	0.00	0.00	9.80	1,731.98	1,906.50	398	54.7%
2002	706.64	552.50	534.12	0.00	0.00	9.85	1,803.10	1,936.95	399	55.4%
2003	710.28	559.56	524.84	0.17	0.00	10.10	1,804.95	1,936.91	419	52.8%
2004	702.43	574.44	547.17	0.15	0.00	9.98	1,834.18	1,949.25	399	55.3%
2005	749.36	598.70	552.41	0.16	0.00	10.02	1,910.65	2,067.03	409	57.7%
2006	735.16	609.32	563.82	0.02	0.00	10.17	1,918.49	2,062.04	412	57.1%
2007	755.54	608.34	578.43	0.00	0.00	10.17	1,952.47	2,094.88	418	57.2%
2008	768.02	619.35	586.36	0.00	0.00	10.06	1,983.79	2,128.60	425	56.6%
2009	783.19	632.18	596.98	0.00	0.00	10.06	2,022.40	2,170.03	433	57.2%
2010	804.66	650.22	602.21	0.00	0.00	10.06	2,067.15	2,217.93	442	57.3%
2011	816.95	663.73	608.76	0.00	0.00	10.06	2,099.49	2,252.63	448	57.4%
2012	832.09	678.63	615.59	0.00	0.00	10.06	2,136.38	2,292.20	454	57.1%
2013	842.98	689.51	622.18	0.00	0.00	10.06	2,164.72	2,322.62	460	57.6%
2014	856.03	702.75	628.55	0.00	0.00	10.06	2,197.39	2,357.66	466	57.7%
2015	869.33	715.06	634.66	0.00	0.00	10.06	2,229.11	2,391.70	472	57.8%
2016	884.92	729.55	640.46	0.00	0.00	10.06	2,264.98	2,430.19	478	57.5%
2017	896.06	739.93	646.70	0.00	0.00	10.06	2,292.75	2,459.98	484	58.1%
2018	909.89	753.07	653.13	0.00	0.00	10.06	2,326.15	2,495.82	490	58.2%
2019	923.96	766.40	659.39	0.00	0.00	10.06	2,359.81	2,531.93	496	58.3%
2020	940.56	782.25	665.92	0.00	0.00	10.06	2,398.79	2,573.76	502	58.0%
2021	955.02	795.29	672.12	0.00	0.00	10.06	2,432.49	2,609.92	507	58.7%
2022	969.54	808.48	678.46	0.00	0.00	10.06	2,466.53	2,646.44	513	58.9%
2023	984.60	821.83	684.98	0.00	0.00	10.06	2,501.47	2,683.92	519	59.0%
2024	999.97	835.35	691.63	0.00	0.00	10.06	2,537.01	2,722.05	525	58.7%
2025	1,015.80	849.14	698.60	0.00	0.00	10.06	2,573.60	2,761.31	531	59.4%
2006-25	1.7%	1.8%	1.1%			-0.1%	1.6%	1.5%	1.3%	0.1%
Growth/Yr	14.77	12.62	7.09			(0.01)	34.48	36.80	6	
2006 MW	244	99	68						412	
2025 MW	270	160	100						531	
2006.LF%	36.9%	75.5%	85.3%						57.1%	
2025.LF%	46.1%	64.9%	85.3%				6.8%	Losses	59.4%	

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

Aquila-MO Sensitivity Analysis SJD 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	(7.86)	(7.90)	(1.87)	(17.63)	(18.92)	(5)	-1.0%	-1.2%
2011	(10.84)	(10.82)	(2.75)	(24.41)	(26.19)	(5)	-1.3%	-1.6%
2012	(10.68)	(10.58)	(2.69)	(23.96)	(25.71)	(5)	-1.3%	-1.6%
2013	(15.20)	(15.32)	(4.04)	(34.56)	(37.08)	(9)	-1.8%	-2.2%
2014	(18.42)	(18.52)	(5.05)	(41.99)	(45.06)	(9)	-2.2%	-2.6%
2015	(18.37)	(18.54)	(5.06)	(41.98)	(45.04)	(9)	-2.1%	-2.6%
2016	(23.16)	(23.50)	(6.56)	(53.22)	(57.10)	(13)	-2.6%	-3.2%
2017	(26.60)	(27.08)	(7.69)	(61.37)	(65.85)	(13)	-3.0%	-3.7%
2018	(26.68)	(27.21)	(7.77)	(61.66)	(66.16)	(13)	-2.9%	-3.6%
2019	(31.78)	(32.55)	(9.41)	(73.73)	(79.11)	(17)	-3.4%	-4.2%
2020	(35.55)	(36.28)	(10.67)	(82.51)	(88.52)	(17)	-3.8%	-4.6%
2021	(35.75)	(36.56)	(10.80)	(83.12)	(89.18)	(17)	-3.7%	-4.6%
2022	(41.16)	(42.24)	(12.59)	(96.00)	(103.00)	(22)	-4.2%	-5.2%
2023	(45.18)	(46.33)	(13.98)	(105.49)	(113.19)	(22)	-4.6%	-5.6%
2024	(45.53)	(46.75)	(14.18)	(106.47)	(114.23)	(22)	-4.6%	-5.6%
2025	(51.30)	(52.78)	(16.14)	(120.22)	(128.99)	(26)	-5.1%	-6.2%

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

Aquila-MO SJD										
Case: Price (10% increase every 3 years, -0.1 elasticity)										
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	611.12	456.10	450.83	0.00	0.00	9.53	1,527.59	1,658.44	346	54.2%
1997	624.48	472.00	467.39	0.00	0.00	9.24	1,573.11	1,680.65	350	54.8%
1998	632.58	490.69	500.43	0.00	0.00	9.68	1,633.39	1,770.99	376	53.8%
1999	625.64	501.43	531.50	0.00	0.00	9.85	1,668.42	1,801.38	388	53.0%
2000	662.25	542.11	540.45	0.00	0.00	9.88	1,754.68	1,934.60	403	54.3%
2001	670.62	539.95	511.61	0.00	0.00	9.80	1,731.98	1,906.50	398	54.7%
2002	706.64	552.50	534.12	0.00	0.00	9.85	1,803.10	1,936.95	399	55.4%
2003	710.28	559.56	524.84	0.17	0.00	10.10	1,804.95	1,936.91	419	52.8%
2004	702.43	574.44	547.17	0.15	0.00	9.98	1,834.18	1,949.25	399	55.3%
2005	749.36	598.70	552.41	0.16	0.00	10.02	1,910.65	2,067.03	409	57.7%
2006	735.16	609.32	563.82	0.02	0.00	10.17	1,918.49	2,062.04	412	57.1%
2007	755.54	608.34	578.43	0.00	0.00	10.17	1,952.47	2,094.88	418	57.2%
2008	768.02	619.35	586.36	0.00	0.00	10.06	1,983.79	2,128.60	425	56.6%
2009	783.19	632.18	596.98	0.00	0.00	10.06	2,022.40	2,170.03	433	57.2%
2010	796.79	642.32	600.35	0.00	0.00	10.06	2,049.52	2,199.01	436	57.5%
2011	806.11	652.90	606.01	0.00	0.00	10.06	2,075.08	2,226.44	442	57.5%
2012	821.41	668.04	612.90	0.00	0.00	10.06	2,112.42	2,266.49	449	57.1%
2013	827.77	674.19	618.14	0.00	0.00	10.06	2,130.17	2,285.54	451	57.8%
2014	837.61	684.23	623.49	0.00	0.00	10.06	2,155.39	2,312.60	457	57.7%
2015	850.96	696.52	629.60	0.00	0.00	10.06	2,187.14	2,346.66	463	57.8%
2016	861.76	706.04	633.90	0.00	0.00	10.06	2,211.76	2,373.09	465	57.7%
2017	869.46	712.85	639.01	0.00	0.00	10.06	2,231.38	2,394.13	471	58.0%
2018	883.21	725.86	645.37	0.00	0.00	10.06	2,264.49	2,429.66	477	58.2%
2019	892.18	733.85	649.98	0.00	0.00	10.06	2,286.08	2,452.82	479	58.5%
2020	905.01	745.97	655.24	0.00	0.00	10.06	2,316.28	2,485.23	484	58.0%
2021	919.27	758.73	661.32	0.00	0.00	10.06	2,349.38	2,520.74	490	58.7%
2022	928.37	766.24	665.86	0.00	0.00	10.06	2,370.54	2,543.44	491	59.1%
2023	939.42	775.50	671.00	0.00	0.00	10.06	2,395.97	2,570.73	497	59.0%
2024	954.43	788.60	677.45	0.00	0.00	10.06	2,430.54	2,607.82	503	58.7%
2025	964.50	796.36	682.46	0.00	0.00	10.06	2,453.37	2,632.32	504	59.6%
2006-25 Growth/Yr	1.4%	1.4%	1.0%			-0.1% (0.01)	1.3%	1.3%	1.1%	0.1%
2006 MW	12.07	9.84	6.24				28.15	30.01	5	
2025 MW	244	99	68						412	
2006.LF%	256	150	98						504	
2006.LF%	36.9%	75.5%	85.3%						57.1%	
2025.LF%	46.1%	64.9%	85.3%				6.8%	Losses	59.6%	

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

Aquila-MO Sensitivity Analysis SJD 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	2.02	2.67	1.30	5.99	6.42	1	0.3%	0.4%
2011	2.48	3.78	2.37	8.64	9.27	2	0.3%	0.6%
2012	2.96	4.79	3.41	11.15	11.97	2	0.4%	0.7%
2013	3.48	6.28	4.94	14.70	15.78	3	0.4%	0.9%
2014	4.01	8.01	6.95	18.97	20.35	4	0.5%	1.1%
2015	4.53	10.04	9.50	24.07	25.83	5	0.5%	1.4%
2016	5.08	12.47	12.59	30.14	32.34	6	0.6%	1.7%
2017	5.64	14.78	15.52	35.94	38.56	7	0.6%	2.0%
2018	6.21	17.08	18.61	41.90	44.95	8	0.7%	2.3%
2019	6.80	19.67	22.07	48.54	52.08	10	0.7%	2.6%
2020	7.41	22.24	25.59	55.23	59.26	11	0.8%	2.8%
2021	8.03	25.19	29.83	63.05	67.64	12	0.8%	3.2%
2022	8.66	28.19	34.11	70.96	76.13	14	0.9%	3.5%
2023	9.31	31.25	38.56	79.11	84.88	15	0.9%	3.8%
2024	9.98	34.43	43.37	87.78	94.18	17	1.0%	4.1%
2025	10.65	37.52	47.99	96.16	103.17	18	1.0%	4.4%

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

Aquila-MO SJD										
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	611.12	456.10	450.83	0.00	0.00	9.53	1,527.59	1,658.44	346	54.2%
1997	624.48	472.00	467.39	0.00	0.00	9.24	1,573.11	1,680.65	350	54.8%
1998	632.58	490.69	500.43	0.00	0.00	9.68	1,633.39	1,770.99	376	53.8%
1999	625.64	501.43	531.50	0.00	0.00	9.85	1,668.42	1,801.38	388	53.0%
2000	662.25	542.11	540.45	0.00	0.00	9.88	1,754.68	1,934.60	403	54.3%
2001	670.62	539.95	511.61	0.00	0.00	9.80	1,731.98	1,906.50	398	54.7%
2002	706.64	552.50	534.12	0.00	0.00	9.85	1,803.10	1,936.95	399	55.4%
2003	710.28	559.56	524.84	0.17	0.00	10.10	1,804.95	1,936.91	419	52.8%
2004	702.43	574.44	547.17	0.15	0.00	9.98	1,834.18	1,949.25	399	55.3%
2005	749.36	598.70	552.41	0.16	0.00	10.02	1,910.65	2,067.03	409	57.7%
2006	735.16	609.32	563.82	0.02	0.00	10.17	1,918.49	2,062.04	412	57.1%
2007	755.54	608.34	578.43	0.00	0.00	10.17	1,952.47	2,094.88	418	57.2%
2008	768.02	619.35	586.36	0.00	0.00	10.06	1,983.79	2,128.60	425	56.6%
2009	783.19	632.18	596.98	0.00	0.00	10.06	2,022.40	2,170.03	433	57.2%
2010	798.82	644.98	601.65	0.00	0.00	10.06	2,055.51	2,205.43	438	57.5%
2011	808.60	656.68	608.39	0.00	0.00	10.06	2,083.72	2,235.71	444	57.5%
2012	824.37	672.83	616.31	0.00	0.00	10.06	2,123.57	2,278.46	451	57.1%
2013	831.26	680.47	623.08	0.00	0.00	10.06	2,144.87	2,301.31	454	57.8%
2014	841.62	692.24	630.44	0.00	0.00	10.06	2,174.36	2,332.96	461	57.7%
2015	855.49	706.56	639.09	0.00	0.00	10.06	2,211.21	2,372.49	468	57.8%
2016	866.84	718.52	646.49	0.00	0.00	10.06	2,241.90	2,405.42	471	57.8%
2017	875.10	727.63	654.53	0.00	0.00	10.06	2,267.31	2,432.69	478	58.1%
2018	889.42	742.94	663.98	0.00	0.00	10.06	2,306.39	2,474.61	485	58.2%
2019	898.98	753.52	672.06	0.00	0.00	10.06	2,334.62	2,504.90	488	58.6%
2020	912.42	768.21	680.83	0.00	0.00	10.06	2,371.51	2,544.49	495	58.1%
2021	927.30	783.92	691.15	0.00	0.00	10.06	2,412.42	2,588.38	502	58.8%
2022	937.03	794.43	699.97	0.00	0.00	10.06	2,441.49	2,619.57	505	59.2%
2023	948.72	806.75	709.55	0.00	0.00	10.06	2,475.09	2,655.62	512	59.2%
2024	964.41	823.03	720.82	0.00	0.00	10.06	2,518.32	2,702.00	520	58.8%
2025	975.15	833.87	730.45	0.00	0.00	10.06	2,549.53	2,735.49	523	59.8%
2006-25 Growth/Yr	1.5%	1.7%	1.4%			-0.1% (0.01)	1.5%	1.5%	1.3%	0.1%
2006 MW	244	99	68				33.21	35.44	6	
2025 MW	259	157	105						523	
2006.LF%	36.9%	75.5%	85.3%						57.1%	
2025.LF%	46.1%	64.9%	85.3%				6.8%	Losses	59.8%	

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

Aquila-MO Sensitivity Analysis SJD 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	(4.79)	(3.89)	(5.28)	(13.96)	(14.98)	(4)	-0.6%	-0.6%
2011	(6.18)	(5.01)	(7.12)	(18.31)	(19.65)	(5)	-0.8%	-0.8%
2012	(7.41)	(6.09)	(8.98)	(22.49)	(24.13)	(6)	-0.9%	-0.9%
2013	(8.61)	(7.37)	(10.88)	(26.86)	(28.82)	(7)	-1.0%	-1.1%
2014	(9.75)	(8.62)	(12.84)	(31.22)	(33.49)	(8)	-1.1%	-1.2%
2015	(10.84)	(9.99)	(14.86)	(35.69)	(38.29)	(9)	-1.2%	-1.4%
2016	(11.92)	(11.38)	(16.99)	(40.29)	(43.23)	(10)	-1.3%	-1.6%
2017	(12.97)	(12.88)	(19.13)	(44.98)	(48.26)	(10)	-1.4%	-1.7%
2018	(14.06)	(14.27)	(21.30)	(49.63)	(53.25)	(11)	-1.5%	-1.9%
2019	(15.16)	(15.72)	(23.50)	(54.39)	(58.35)	(12)	-1.6%	-2.1%
2020	(16.30)	(17.09)	(25.75)	(59.14)	(63.45)	(13)	-1.7%	-2.2%
2021	(17.38)	(18.64)	(28.02)	(64.04)	(68.71)	(14)	-1.8%	-2.3%
2022	(18.43)	(20.24)	(30.37)	(69.04)	(74.07)	(14)	-1.9%	-2.5%
2023	(19.50)	(21.89)	(32.79)	(74.18)	(79.59)	(15)	-2.0%	-2.7%
2024	(20.57)	(23.60)	(35.29)	(79.46)	(85.26)	(15)	-2.1%	-2.8%
2025	(21.69)	(25.36)	(37.91)	(84.95)	(91.15)	(16)	-2.1%	-3.0%

Plot E-71: SJD Forecast Sensitivity – Low-case
(25% probability)

Aquila-MO SJD										
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	611.12	456.10	450.83	0.00	0.00	9.53	1,527.59	1,658.44	346	54.2%
1997	624.48	472.00	467.39	0.00	0.00	9.24	1,573.11	1,680.65	350	54.8%
1998	632.58	490.69	500.43	0.00	0.00	9.68	1,633.39	1,770.99	376	53.8%
1999	625.64	501.43	531.50	0.00	0.00	9.85	1,668.42	1,801.38	388	53.0%
2000	662.25	542.11	540.45	0.00	0.00	9.88	1,754.68	1,934.60	403	54.3%
2001	670.62	539.95	511.61	0.00	0.00	9.80	1,731.98	1,906.50	398	54.7%
2002	706.64	552.50	534.12	0.00	0.00	9.85	1,803.10	1,936.95	399	55.4%
2003	710.28	559.56	524.84	0.17	0.00	10.10	1,804.95	1,936.91	419	52.8%
2004	702.43	574.44	547.17	0.15	0.00	9.98	1,834.18	1,949.25	399	55.3%
2005	749.36	598.70	552.41	0.16	0.00	10.02	1,910.65	2,067.03	409	57.7%
2006	735.16	609.32	563.82	0.02	0.00	10.17	1,918.49	2,062.04	412	57.1%
2007	755.54	608.34	578.43	0.00	0.00	10.17	1,952.47	2,094.88	418	57.2%
2008	768.02	619.35	586.36	0.00	0.00	10.06	1,983.79	2,128.60	425	56.6%
2009	783.19	632.18	596.98	0.00	0.00	10.06	2,022.40	2,169.92	433	57.2%
2010	799.87	646.33	596.93	0.00	0.00	10.06	2,053.19	2,202.95	438	57.5%
2011	810.77	658.71	601.64	0.00	0.00	10.06	2,081.18	2,232.98	443	57.6%
2012	824.68	672.54	606.61	0.00	0.00	10.06	2,113.89	2,268.07	448	57.3%
2013	834.37	682.14	611.30	0.00	0.00	10.06	2,137.86	2,293.80	453	57.8%
2014	846.28	694.13	615.70	0.00	0.00	10.06	2,166.17	2,324.17	458	57.9%
2015	858.50	705.07	619.80	0.00	0.00	10.06	2,193.43	2,353.41	463	58.0%
2016	873.00	718.17	623.47	0.00	0.00	10.06	2,224.69	2,386.95	468	57.7%
2017	883.09	727.05	627.57	0.00	0.00	10.06	2,247.78	2,411.73	473	58.2%
2018	895.83	738.80	631.83	0.00	0.00	10.06	2,276.52	2,442.57	478	58.3%
2019	908.80	750.68	635.88	0.00	0.00	10.06	2,305.42	2,473.58	484	58.4%
2020	924.26	765.16	640.17	0.00	0.00	10.06	2,339.65	2,510.30	489	58.1%
2021	937.65	776.65	644.09	0.00	0.00	10.06	2,368.45	2,541.20	494	58.7%
2022	951.10	788.24	648.09	0.00	0.00	10.06	2,397.49	2,572.36	499	58.9%
2023	965.10	799.94	652.19	0.00	0.00	10.06	2,427.29	2,604.33	504	59.0%
2024	979.39	811.75	656.34	0.00	0.00	10.06	2,457.54	2,636.79	509	58.6%
2025	994.11	823.78	660.70	0.00	0.00	10.06	2,488.64	2,670.16	515	59.2%
2006-25 Growth/Yr	1.6%	1.6%	0.8%			-0.1% (0.01)	1.4%	1.4%	1.2%	0.1%
2006 MW	244	99	68				30.01	32.01	5	
2025 MW	264	155	95						515	
2006.LF%	36.9%	75.5%	85.3%						57.1%	
2025.LF%	46.1%	64.9%	85.3%				6.8%	Losses	59.2%	

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

Aquila-MO Sensitivity Analysis SJD 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	1.30	2.37	4.25	7.92	8.50	1	0.2%	0.4%
2011	2.17	2.89	5.96	11.02	11.82	2	0.3%	0.4%
2012	2.60	3.49	7.76	13.84	14.85	2	0.3%	0.5%
2013	3.06	4.34	9.66	17.07	18.32	3	0.4%	0.6%
2014	3.89	5.13	11.70	20.73	22.24	4	0.5%	0.7%
2015	5.03	6.03	13.87	24.93	26.75	4	0.6%	0.8%
2016	6.53	6.91	16.21	29.65	31.81	5	0.7%	0.9%
2017	8.13	7.98	18.66	34.78	37.32	6	0.9%	1.1%
2018	9.71	8.95	21.22	39.88	42.79	7	1.1%	1.2%
2019	11.28	9.96	23.89	45.13	48.42	8	1.2%	1.3%
2020	12.98	10.88	26.68	50.53	54.22	9	1.4%	1.4%
2021	14.97	11.99	29.57	56.52	60.64	10	1.6%	1.5%
2022	17.23	13.14	32.60	62.97	67.57	12	1.8%	1.6%
2023	19.71	14.35	35.81	69.86	74.96	13	2.0%	1.7%
2024	22.42	15.60	39.18	77.20	82.83	14	2.2%	1.9%
2025	25.25	16.90	42.76	84.91	91.10	16	2.5%	2.0%

Plot E-72: SJD Forecast Sensitivity – High-case
(25% probability)

Aquila-MO SJD										
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	611.12	456.10	450.83	0.00	0.00	9.53	1,527.59	1,658.44	346	54.2%
1997	624.48	472.00	467.39	0.00	0.00	9.24	1,573.11	1,680.65	350	54.8%
1998	632.58	490.69	500.43	0.00	0.00	9.68	1,633.39	1,770.99	376	53.8%
1999	625.64	501.43	531.50	0.00	0.00	9.85	1,668.42	1,801.38	388	53.0%
2000	662.25	542.11	540.45	0.00	0.00	9.88	1,754.68	1,934.60	403	54.3%
2001	670.62	539.95	511.61	0.00	0.00	9.80	1,731.98	1,906.50	398	54.7%
2002	706.64	552.50	534.12	0.00	0.00	9.85	1,803.10	1,936.95	399	55.4%
2003	710.28	559.56	524.84	0.17	0.00	10.10	1,804.95	1,936.91	419	52.8%
2004	702.43	574.44	547.17	0.15	0.00	9.98	1,834.18	1,949.25	399	55.3%
2005	749.36	598.70	552.41	0.16	0.00	10.02	1,910.65	2,067.03	409	57.7%
2006	735.16	609.32	563.82	0.02	0.00	10.17	1,918.49	2,062.04	412	57.1%
2007	755.54	608.34	578.43	0.00	0.00	10.17	1,952.47	2,094.88	418	57.2%
2008	768.02	619.35	586.36	0.00	0.00	10.06	1,983.79	2,128.60	425	56.6%
2009	783.19	632.18	596.98	0.00	0.00	10.06	2,022.40	2,169.92	433	57.2%
2010	805.96	652.59	606.47	0.00	0.00	10.06	2,075.07	2,226.43	443	57.4%
2011	819.11	666.62	614.73	0.00	0.00	10.06	2,110.51	2,264.45	449	57.5%
2012	834.69	682.12	623.35	0.00	0.00	10.06	2,150.22	2,307.05	456	57.2%
2013	846.04	693.85	631.84	0.00	0.00	10.06	2,181.80	2,340.93	463	57.7%
2014	859.92	707.89	640.25	0.00	0.00	10.06	2,218.11	2,379.90	470	57.8%
2015	874.36	721.09	648.53	0.00	0.00	10.06	2,254.04	2,418.45	477	57.9%
2016	891.45	736.46	656.67	0.00	0.00	10.06	2,294.63	2,461.99	483	57.6%
2017	904.19	747.92	665.37	0.00	0.00	10.06	2,327.53	2,497.30	490	58.2%
2018	919.60	762.02	674.35	0.00	0.00	10.06	2,366.03	2,538.60	497	58.3%
2019	935.24	776.36	683.28	0.00	0.00	10.06	2,404.93	2,580.35	504	58.5%
2020	953.54	793.13	692.59	0.00	0.00	10.06	2,449.32	2,627.97	511	58.2%
2021	969.99	807.28	701.69	0.00	0.00	10.06	2,489.01	2,670.56	518	58.9%
2022	986.77	821.62	711.06	0.00	0.00	10.06	2,529.50	2,714.00	525	59.0%
2023	1,004.31	836.18	720.79	0.00	0.00	10.06	2,571.33	2,758.88	532	59.2%
2024	1,022.38	850.95	730.82	0.00	0.00	10.06	2,614.21	2,804.89	539	58.9%
2025	1,041.05	866.04	741.36	0.00	0.00	10.06	2,658.50	2,852.41	546	59.6%
2006-25 Growth/Yr	1.8%	1.9%	1.5%			-0.1% (0.01)	1.7%	1.7%	1.5%	0.1%
2006 MW	244	99	68				38.95	41.60	7	
2025 MW	277	163	106						546	
2006.LF%	36.9%	75.5%	85.3%						57.1%	
2025.LF%	46.1%	64.9%	85.3%				6.8%	Losses	59.6%	

**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.

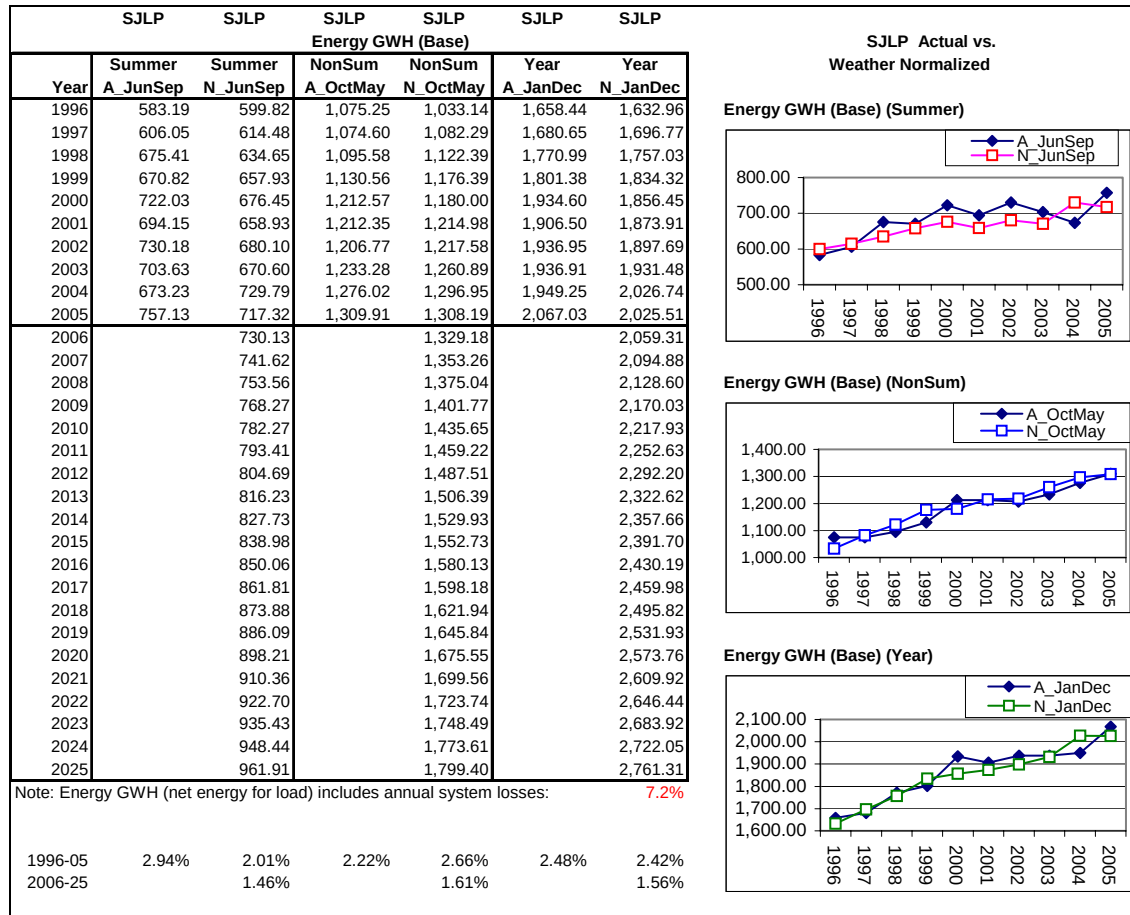
The subjective probabilities were assigned by Bob Adkins, Director-Energy Forecasting, Aquila Inc (816-467-3294), based on combined probability for scenarios of forecast driver variables, as follows:

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

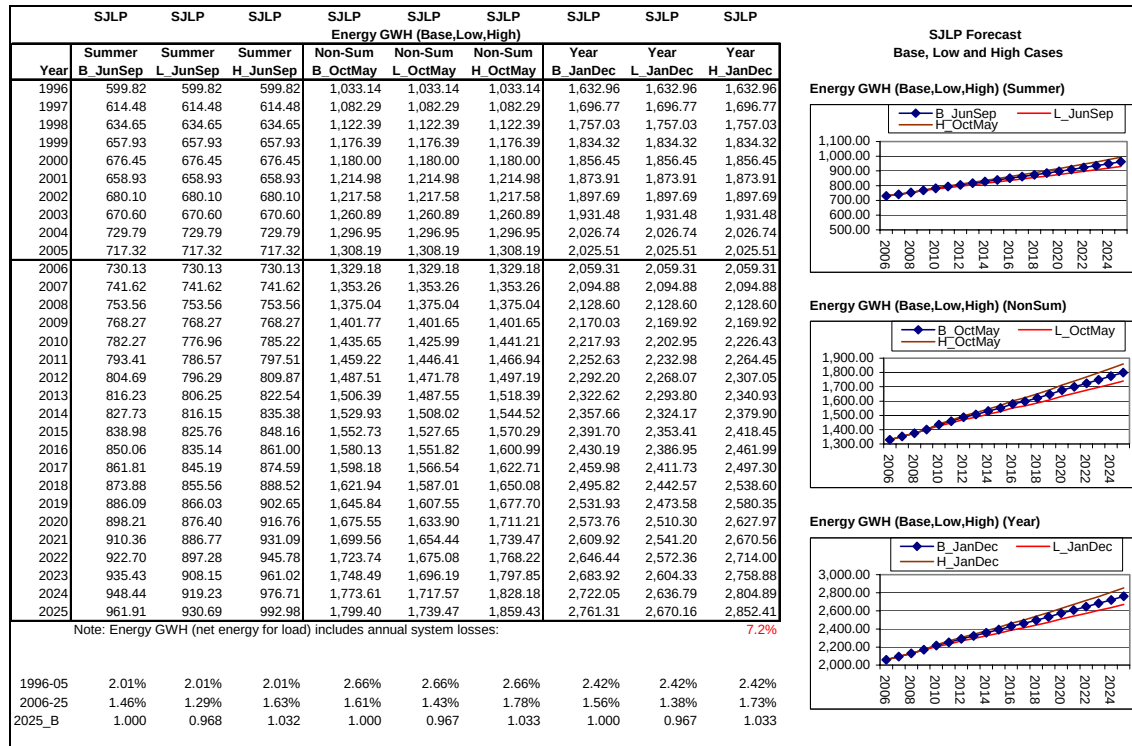
Compliance: See Plots E-73 through E-76 for base-case SJLP forecast reports designed to comply with section (8)(D) reporting requirements.

Linked Files: Aquila Networks – St. Joseph Light & Power (SJLP)
8D_SJD_M2007F_SysLoad.xls

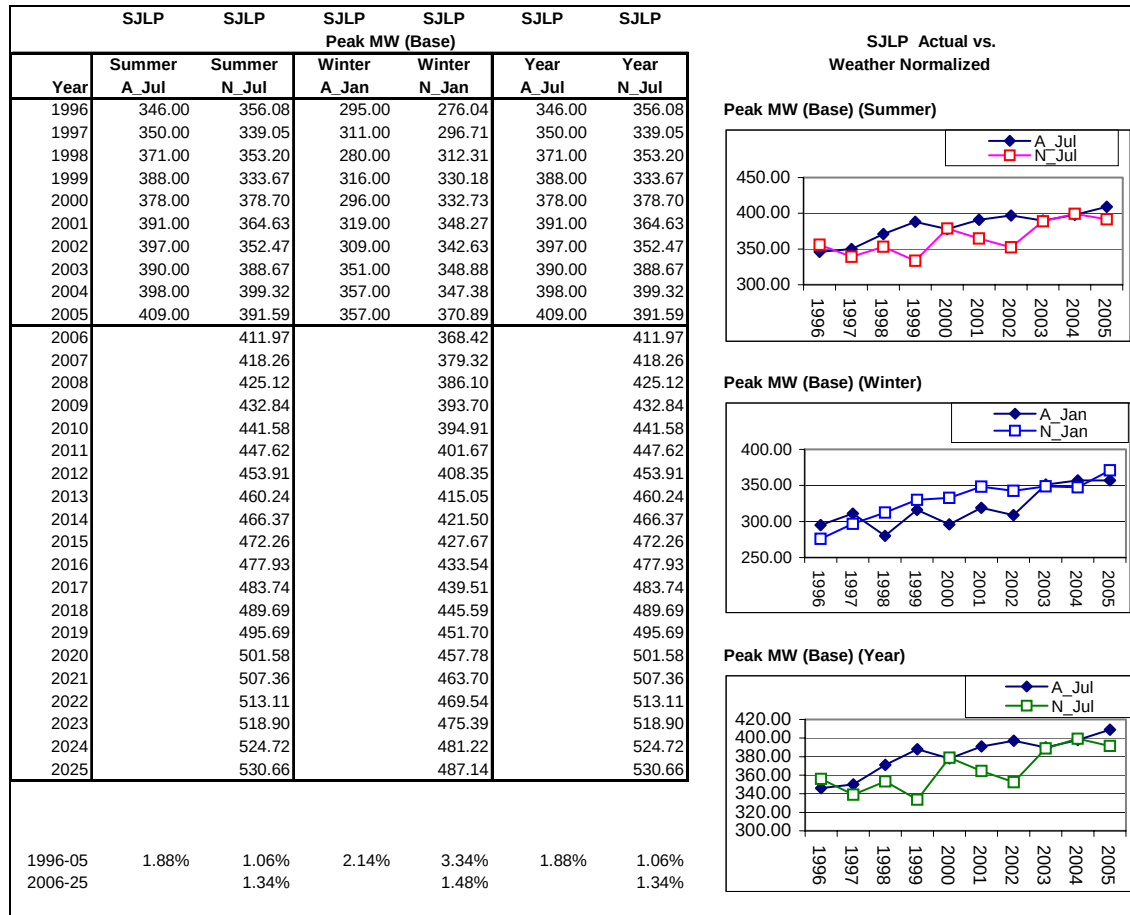
Plot E-73: SJD Energy Forecast – Base Case
(Actual and Weather Normalized)



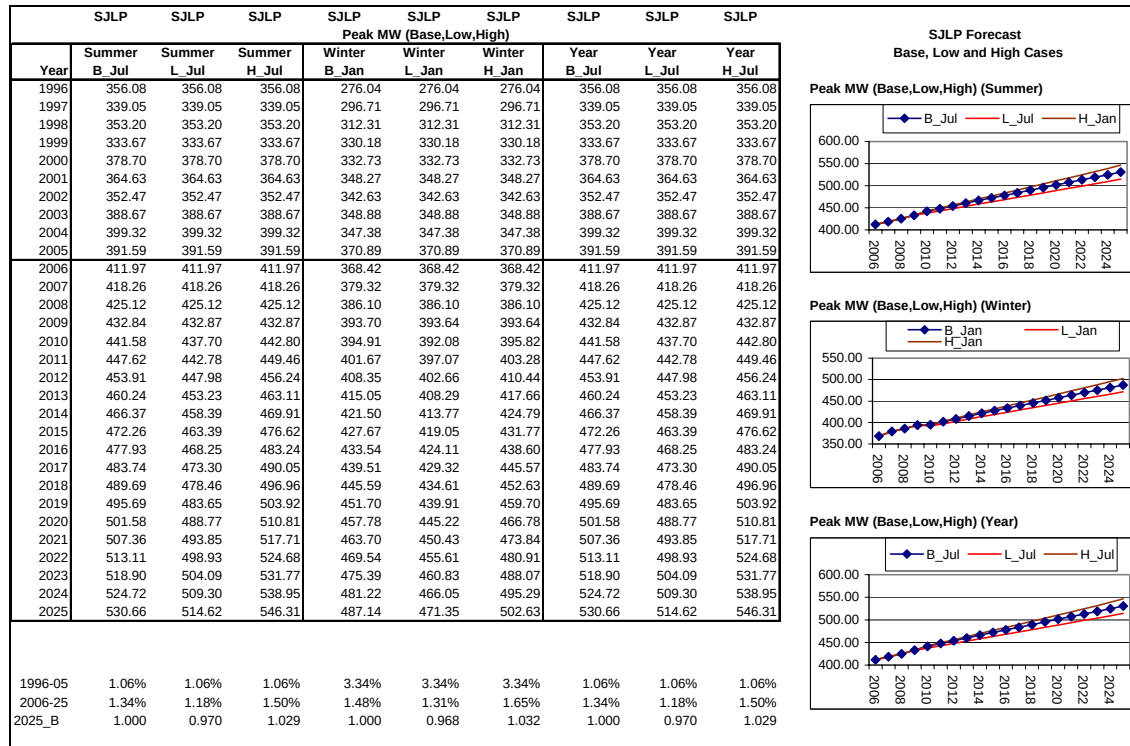
Plot E-74: SJD Energy Forecast
(Base-case, Low-case, High-case)



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



Plot E-76: SJD 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.

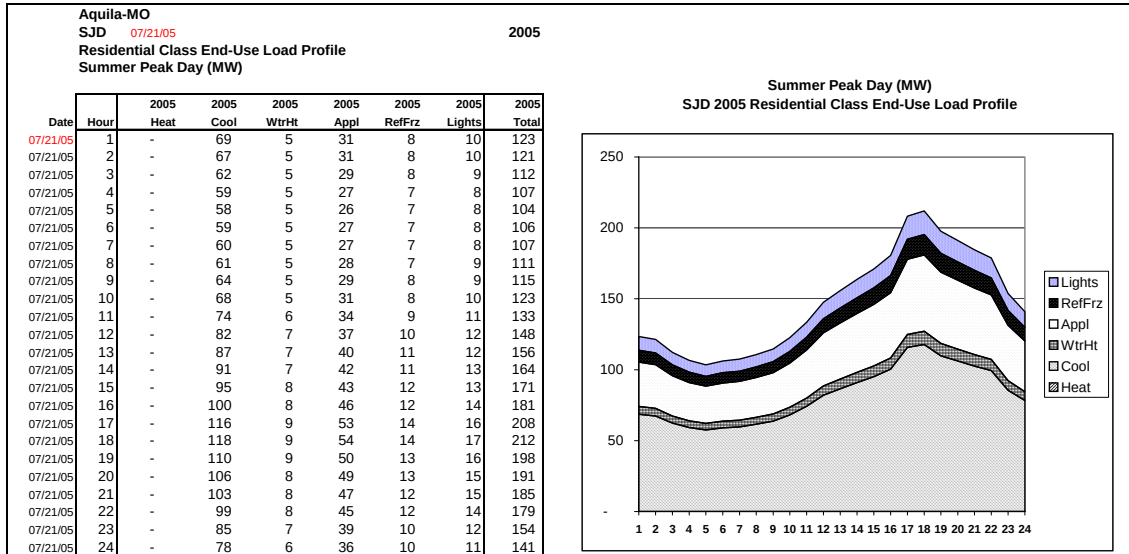
(8)(E)(1) The plots shall show each end-use component of the hourly load profile.

(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.

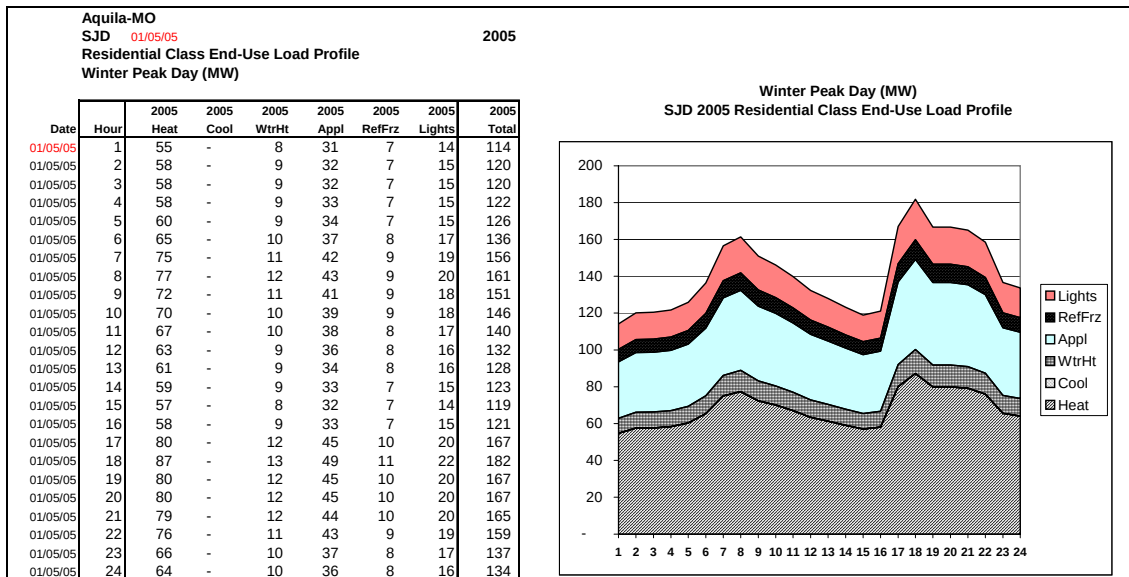
Compliance: See Plots E-77 through E-100 for base-case SJLP forecast reports designed to comply with section (8)(E) reporting requirements.

Linked Files: Aquila Networks – St. Joseph Light & Power (SJLP)
8E_SJD_M2007F_ClassEndUse.xls

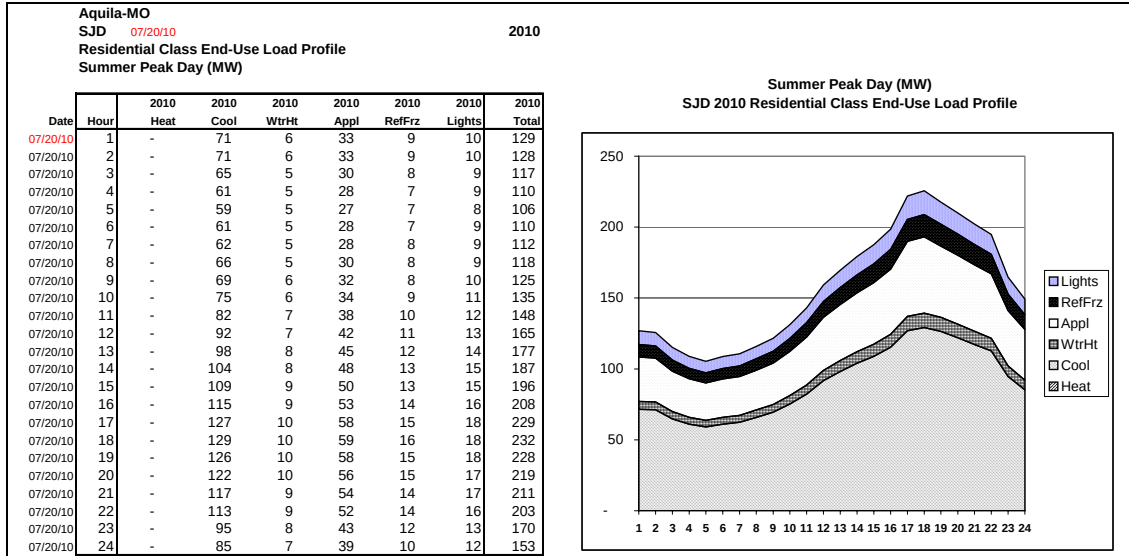
Plot E-77: SJD Residential Peak Day Loads by End-Use (Summer 2005)



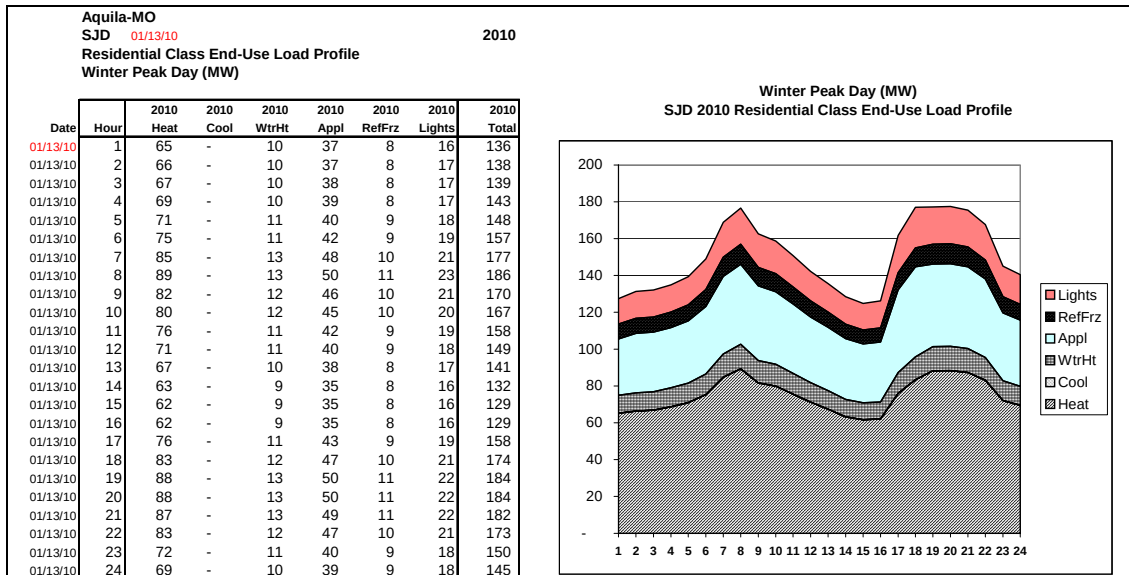
Plot E-78: SJD Residential Peak Day Loads by End-Use (Winter 2005)



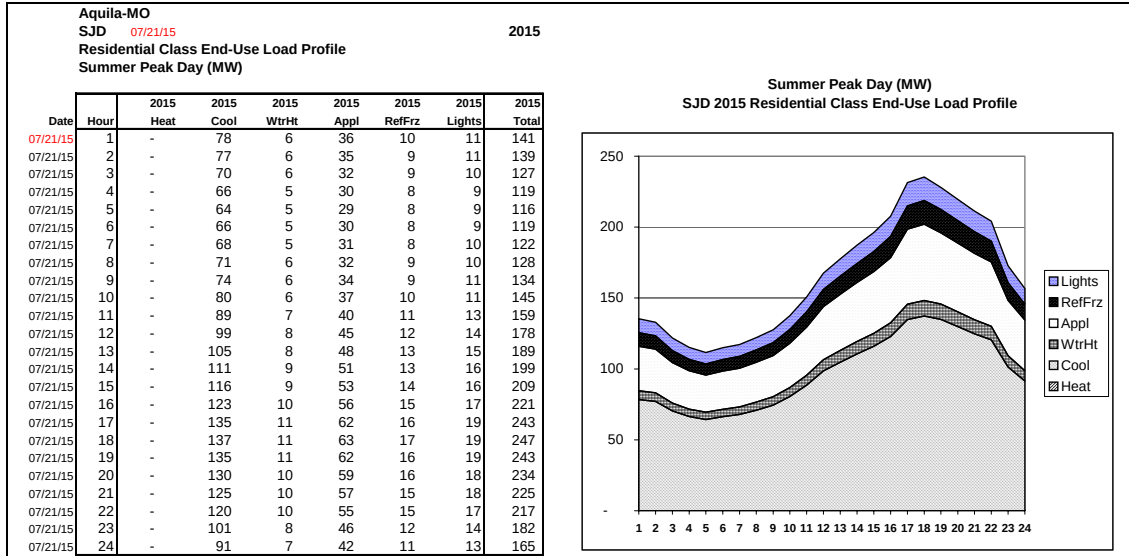
Plot E-79: SJD Residential Peak Day Loads by End-Use (Summer 2010)



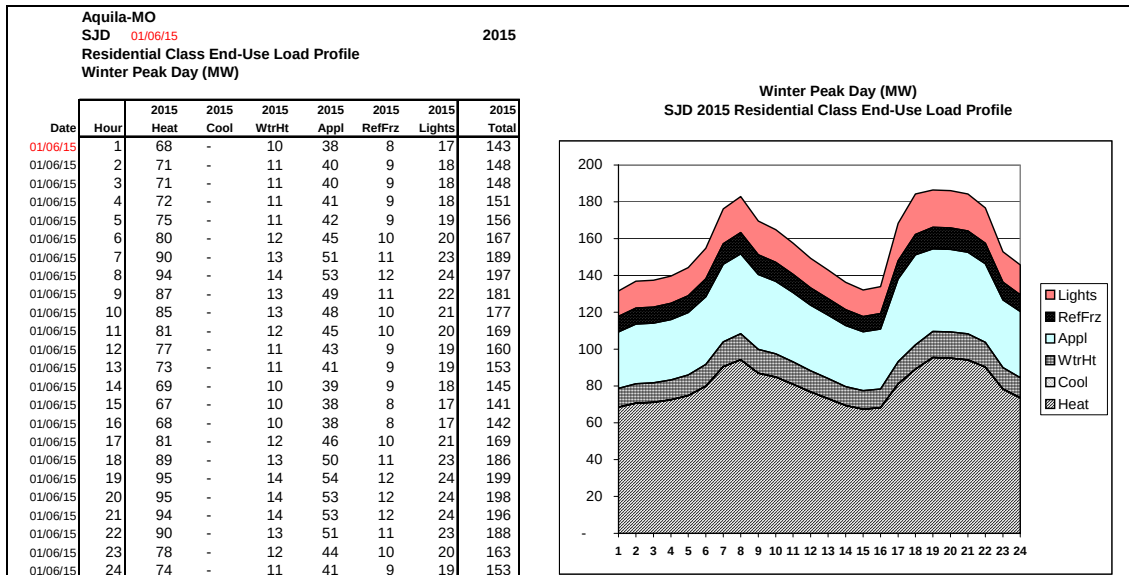
Plot E-80: SJD Residential Peak Day Loads by End-Use (Winter 2010)



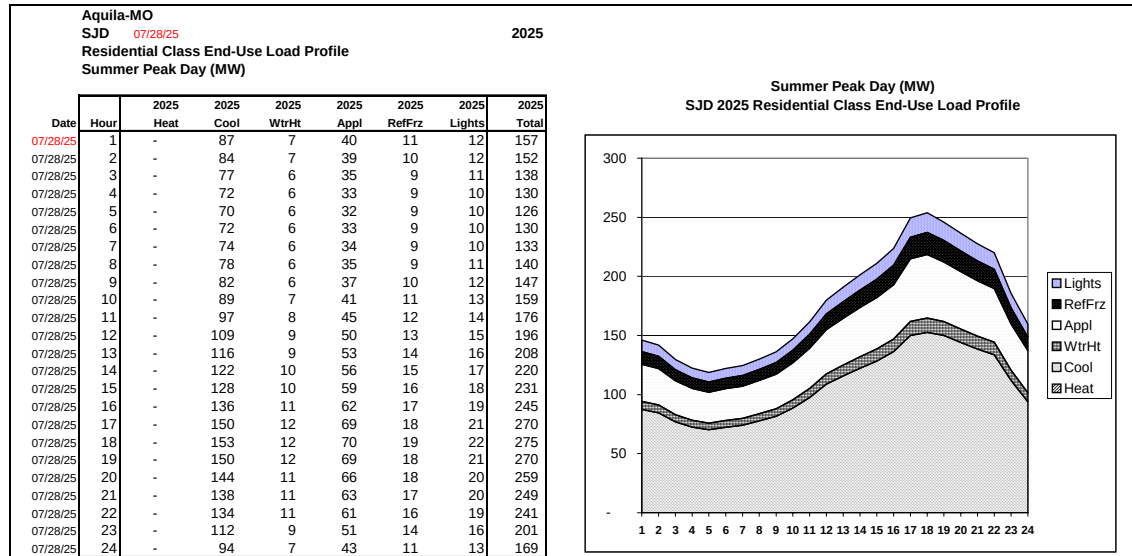
Plot E-81: SJD Residential Peak Day Loads by End-Use (Summer 2015)



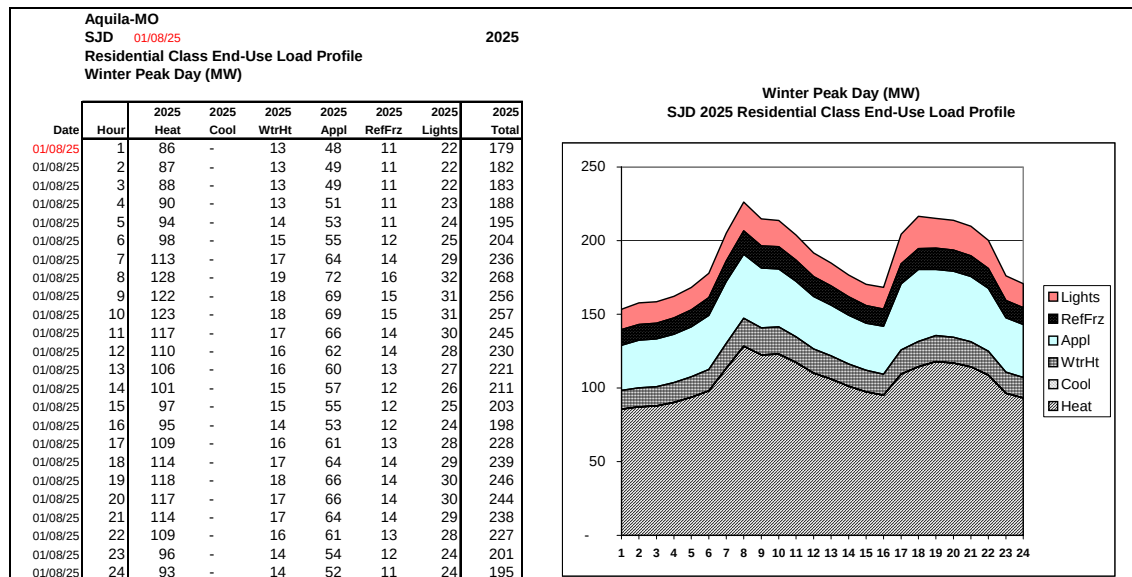
Plot E-82: SJD Residential Peak Day Loads by End-Use (Winter 2015)



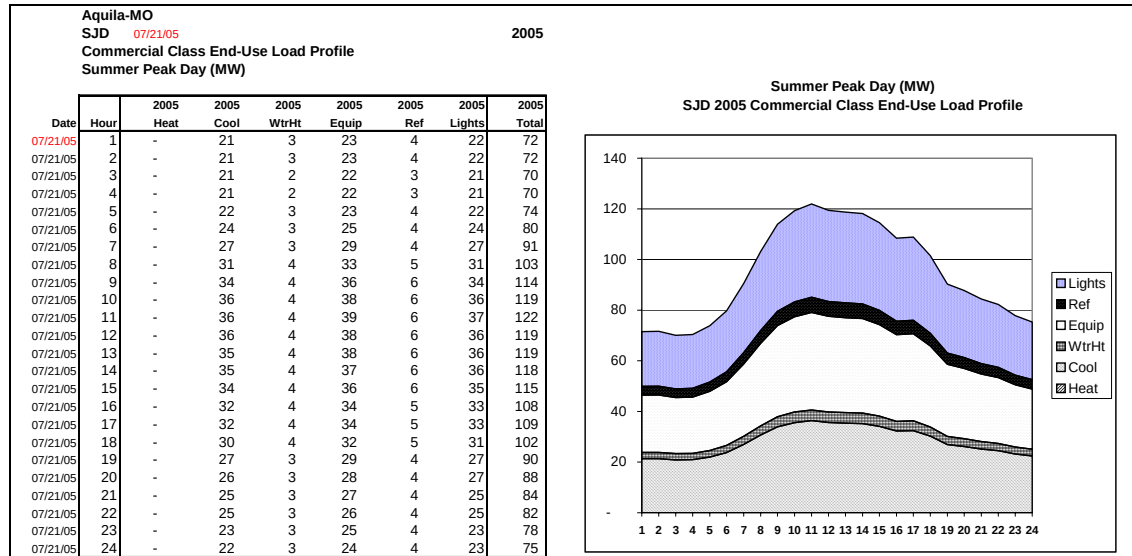
Plot E-83: SJD Residential Peak Day Loads by End-Use (Summer 2025)



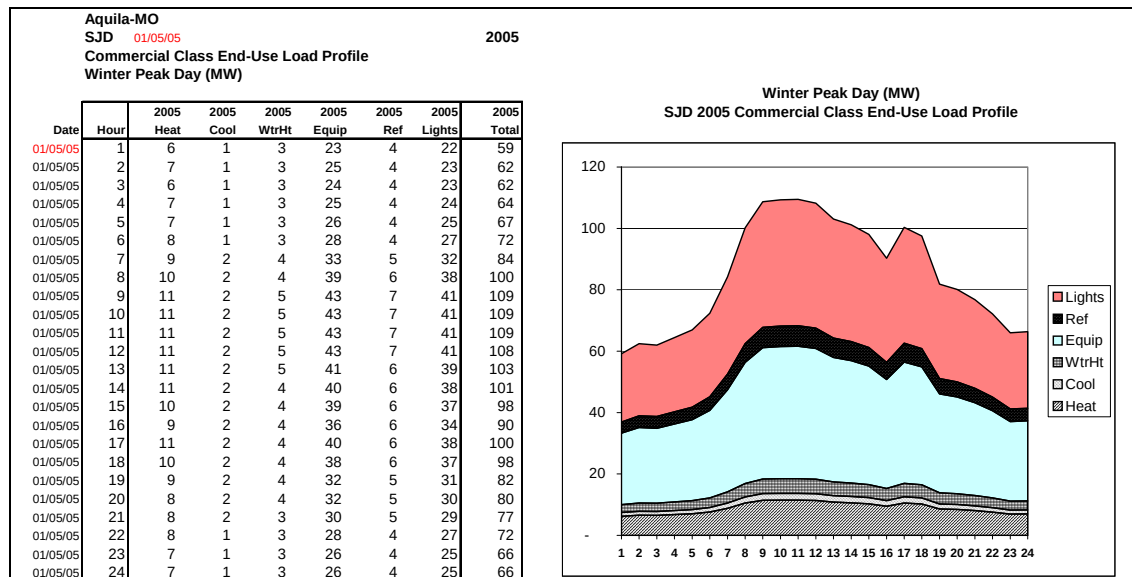
Plot E-84: SJD Residential Peak Day Loads by End-Use (Winter 2025)



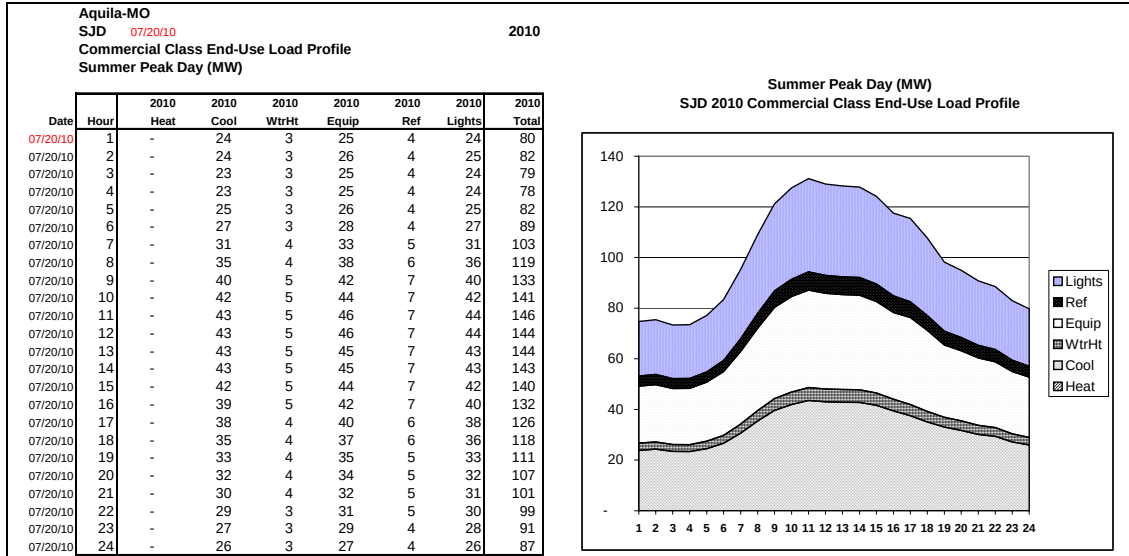
Plot E-85: SJD Commercial Peak Day Loads by End-Use (Summer 2005)



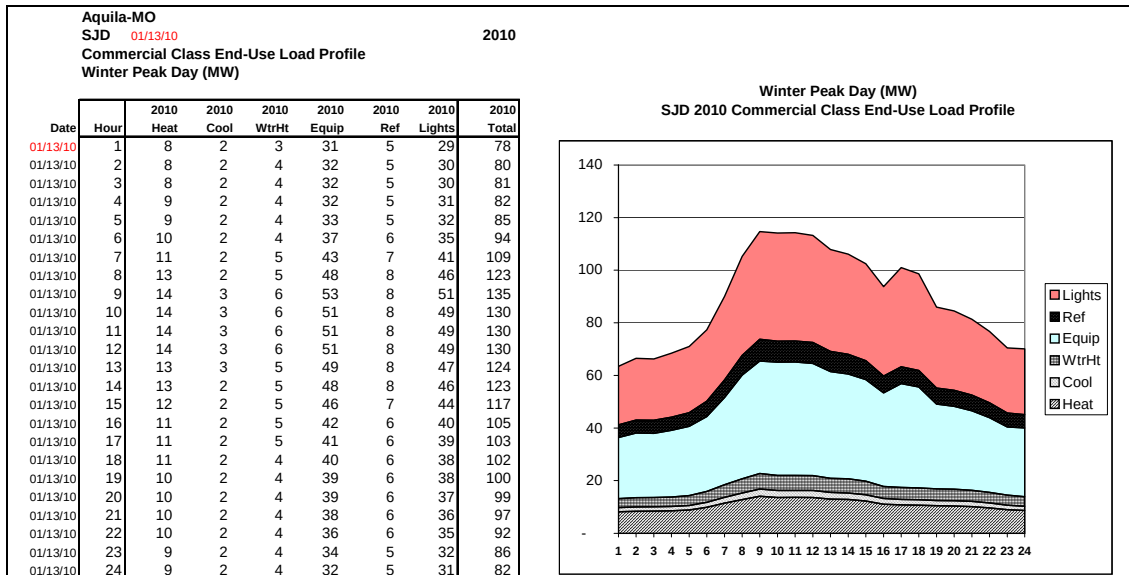
Plot E-86: SJD Commercial Peak Day Loads by End-Use (Winter 2005)



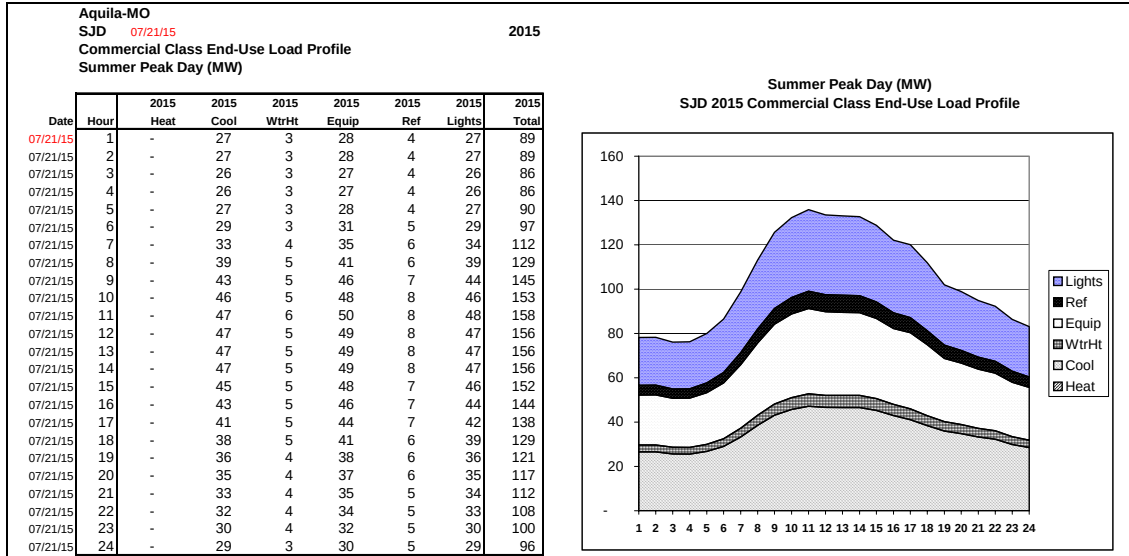
Plot E-87: SJD Commercial Peak Day Loads by End-Use (Summer 2010)



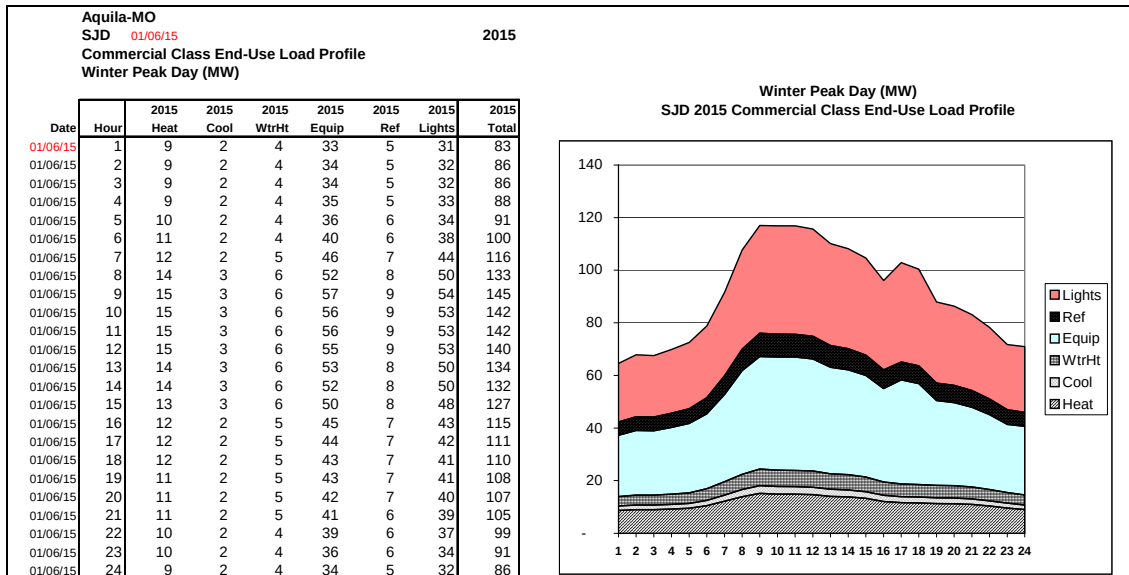
Plot E-88: SJD Commercial Peak Day Loads by End-Use (Winter 2010)



Plot E-89: SJD Commercial Peak Day Loads by End-Use (Summer 2015)



Plot E-90: SJD Commercial Peak Day Loads by End-Use (Winter 2015)



Plot E-91: SJD Commercial Peak Day Loads by End-Use (Summer 2025)

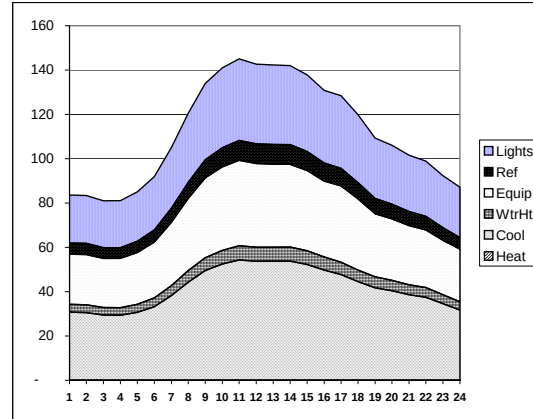
Aquila-MO

SJD 07/28/25

2025

Commercial Class End-Use Load Profile
Summer Peak Day (MW)

Date	Hour	2025 Heat	2025 Cool	2025 WtrHt	2025 Equip	2025 Ref	2025 Lights	2025 Total
07/28/25	1	-	31	4	33	5	31	103
07/28/25	2	-	31	4	32	5	31	102
07/28/25	3	-	29	3	31	5	30	99
07/28/25	4	-	29	3	31	5	30	98
07/28/25	5	-	31	4	33	5	31	103
07/28/25	6	-	33	4	35	5	34	112
07/28/25	7	-	38	5	41	6	39	128
07/28/25	8	-	44	5	47	7	45	149
07/28/25	9	-	50	6	53	8	50	166
07/28/25	10	-	52	6	56	9	53	176
07/28/25	11	-	54	6	58	9	55	182
07/28/25	12	-	54	6	57	9	54	180
07/28/25	13	-	54	6	57	9	54	180
07/28/25	14	-	54	6	57	9	55	181
07/28/25	15	-	52	6	55	9	53	176
07/28/25	16	-	50	6	53	8	50	167
07/28/25	17	-	48	6	51	8	48	160
07/28/25	18	-	45	5	47	7	45	149
07/28/25	19	-	42	5	44	7	42	140
07/28/25	20	-	40	5	43	7	41	136
07/28/25	21	-	39	5	41	6	39	129
07/28/25	22	-	37	4	40	6	38	126
07/28/25	23	-	35	4	37	6	35	116
07/28/25	24	-	32	4	34	5	32	106

Summer Peak Day (MW)
SJD 2025 Commercial Class End-Use Load Profile

Plot E-92: SJD Commercial Peak Day Loads by End-Use (Winter 2025)

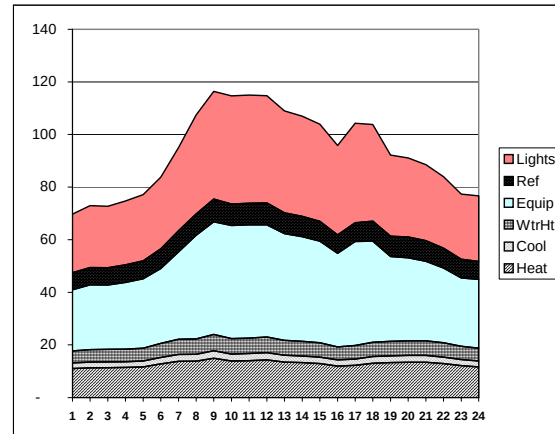
Aquila-MO

SJD 01/08/25

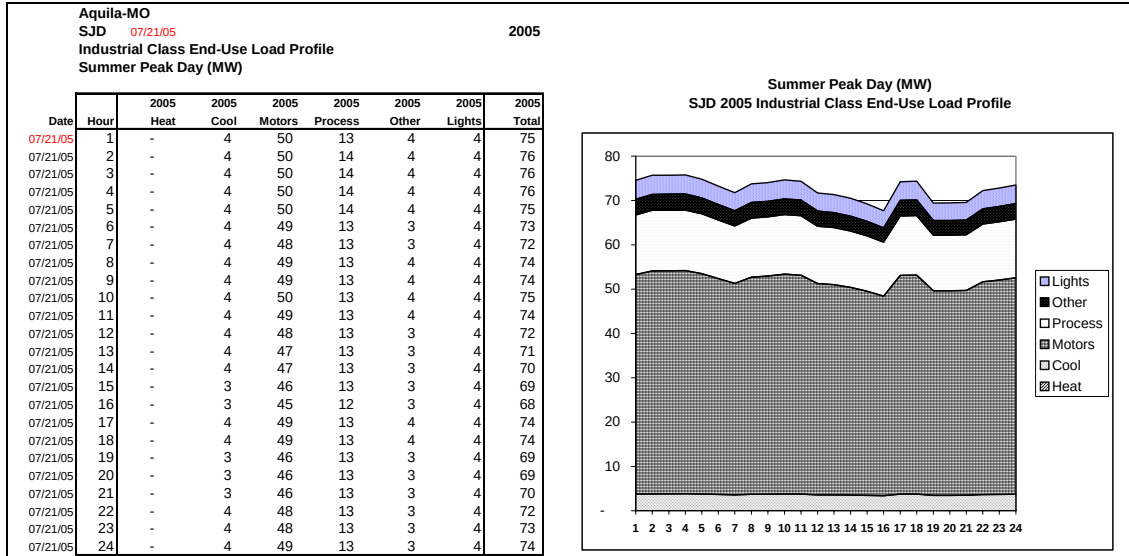
2025

Commercial Class End-Use Load Profile
Winter Peak Day (MW)

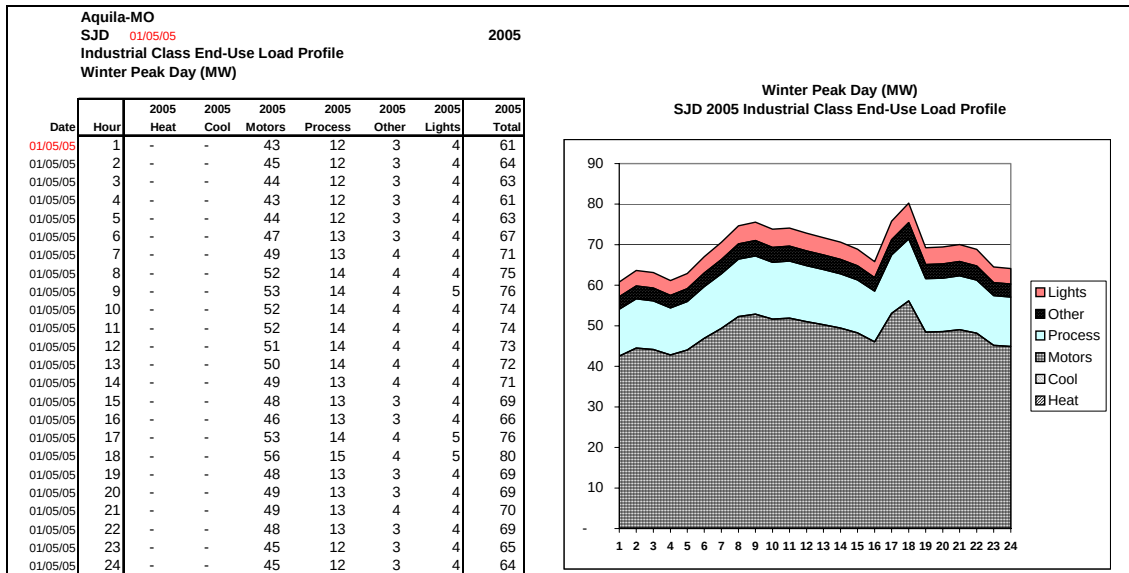
Date	Hour	2025 Heat	2025 Cool	2025 WtrHt	2025 Equip	2025 Ref	2025 Lights	2025 Total
01/08/25	1	11	2	5	41	6	40	105
01/08/25	2	11	2	5	43	7	41	108
01/08/25	3	11	2	5	43	7	41	109
01/08/25	4	11	2	5	43	7	41	109
01/08/25	5	12	2	5	44	7	42	111
01/08/25	6	13	2	5	48	7	46	122
01/08/25	7	14	3	6	52	8	49	131
01/08/25	8	14	3	6	52	8	50	132
01/08/25	9	15	3	6	56	9	53	142
01/08/25	10	14	3	6	52	8	50	133
01/08/25	11	14	3	6	53	8	50	134
01/08/25	12	14	3	6	54	8	51	137
01/08/25	13	13	3	6	51	8	48	129
01/08/25	14	13	3	6	50	8	48	127
01/08/25	15	13	3	5	49	8	46	123
01/08/25	16	12	2	5	45	7	43	114
01/08/25	17	12	2	5	46	7	44	117
01/08/25	18	13	3	5	49	8	47	125
01/08/25	19	13	3	6	50	8	48	127
01/08/25	20	13	3	6	50	8	48	128
01/08/25	21	13	3	6	50	8	48	128
01/08/25	22	13	3	5	49	8	46	123
01/08/25	23	12	2	5	45	7	43	116
01/08/25	24	12	2	5	44	7	42	111

Winter Peak Day (MW)
SJD 2025 Commercial Class End-Use Load Profile

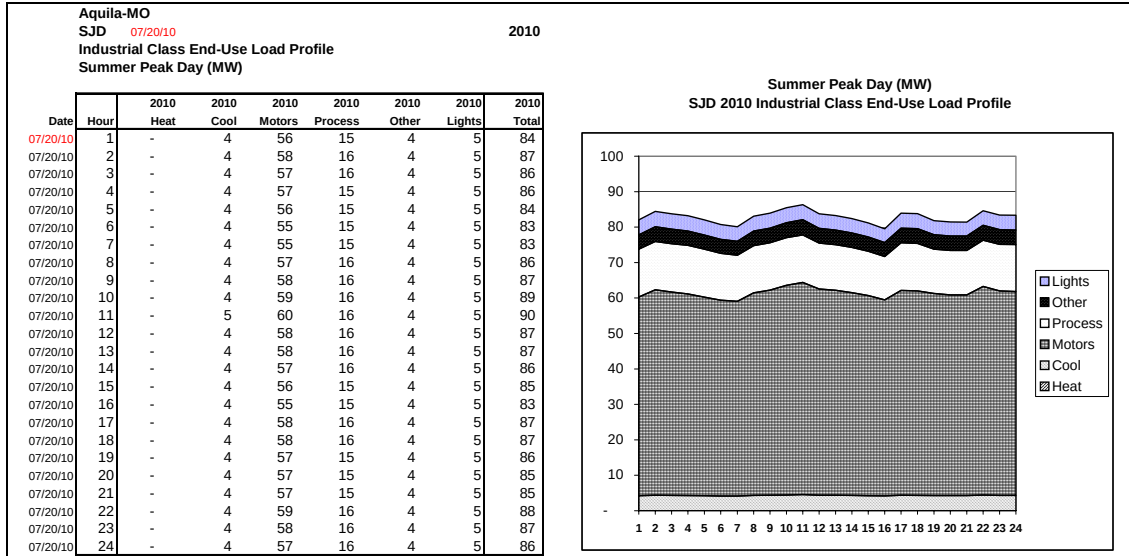
Plot E-93: SJD Industrial Peak Day Loads by End-Use (Summer 2005)



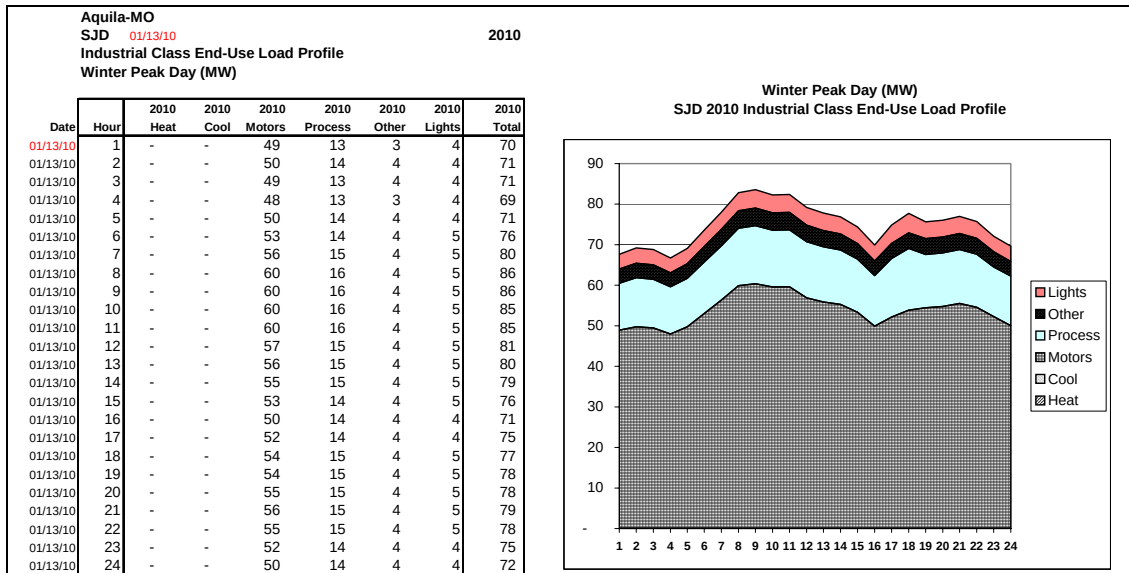
Plot E-94: SJD Industrial Peak Day Loads by End-Use (Winter 2005)



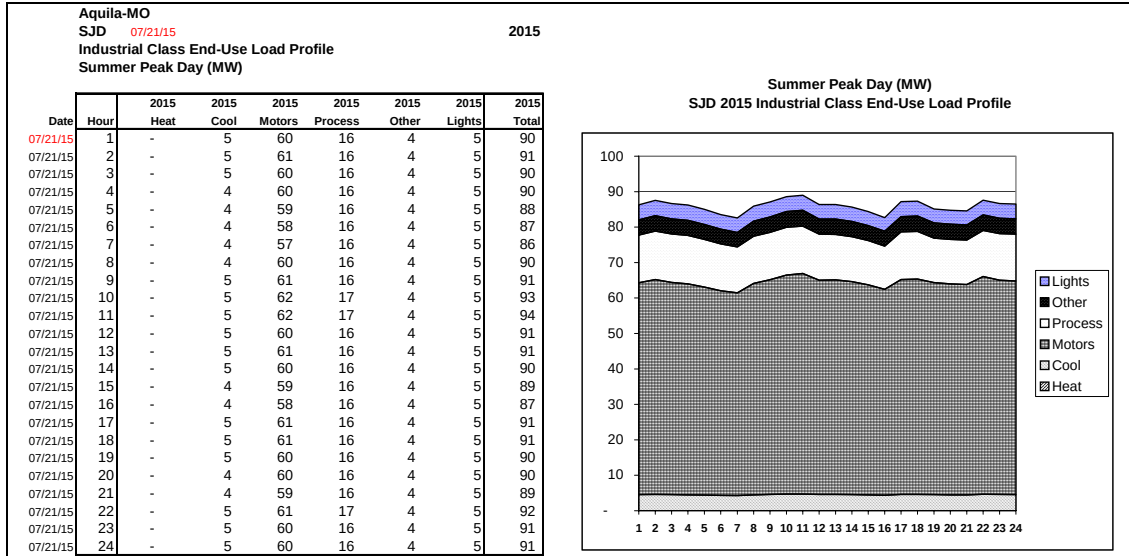
Plot E-95: SJD Industrial Peak Day Loads by End-Use (Summer 2010)



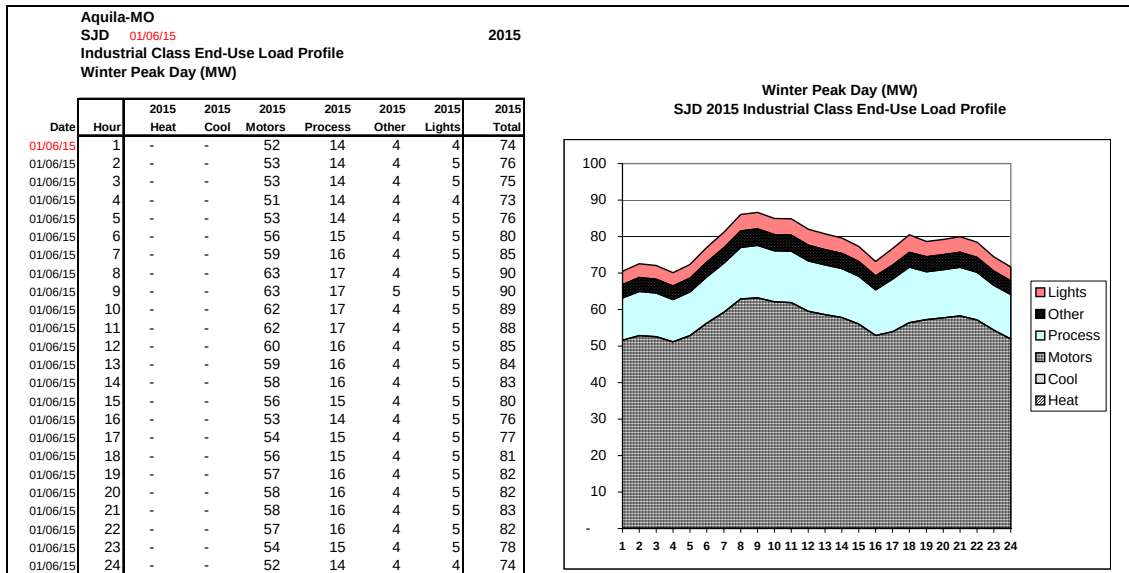
Plot E-96: SJD Industrial Peak Day Loads by End-Use (Winter 2010)



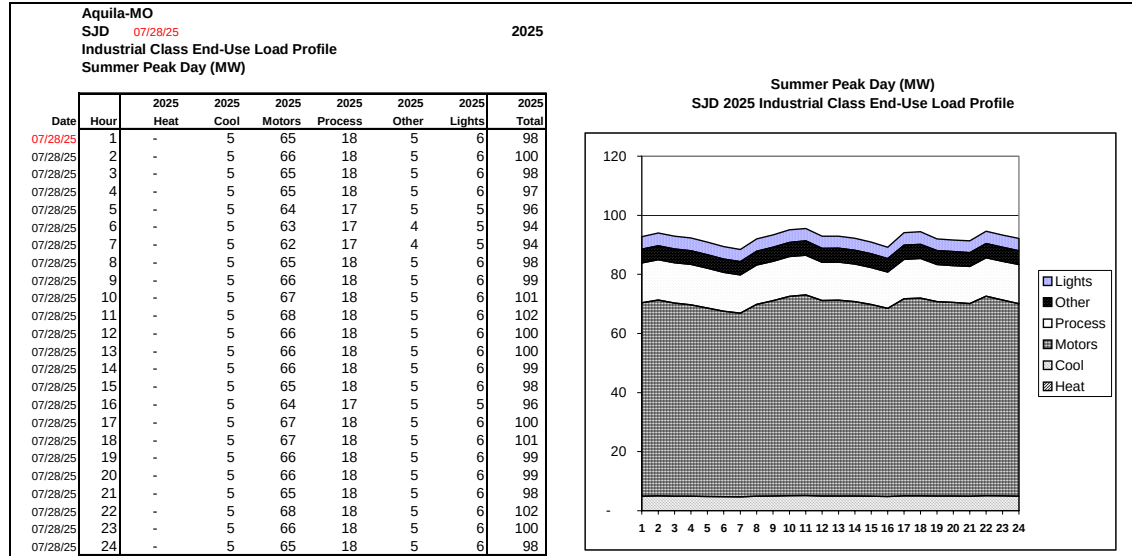
Plot E-97: SJD Industrial Peak Day Loads by End-Use (Summer 2015)



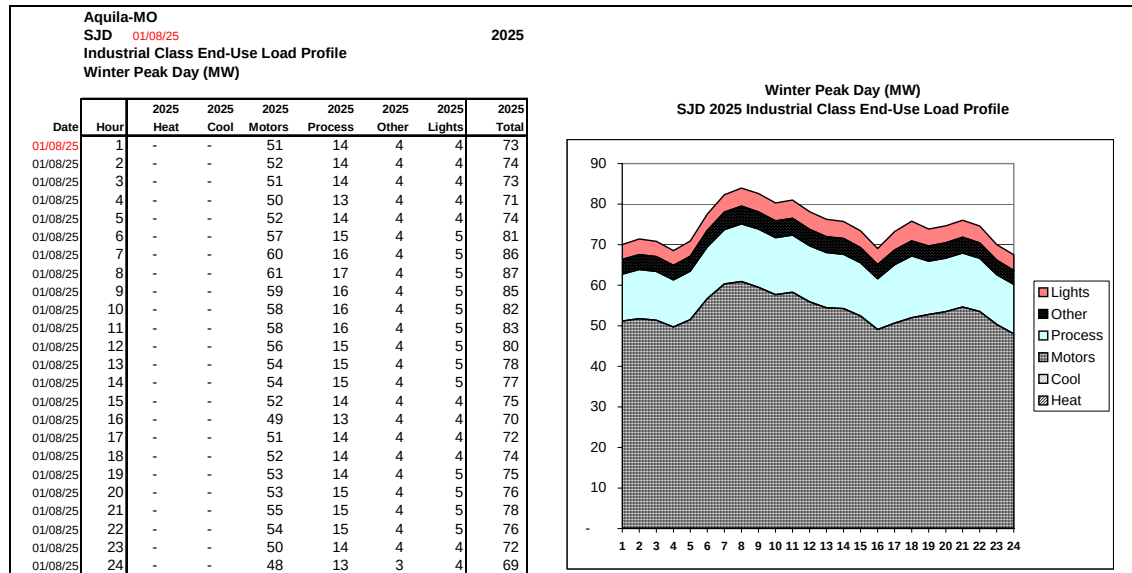
Plot E-98: SJD Industrial Peak Day Loads by End-Use (Winter 2015)



Plot E-99: SJD Industrial Peak Day Loads by End-Use (Summer 2025)



Plot E-100: SJD 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.

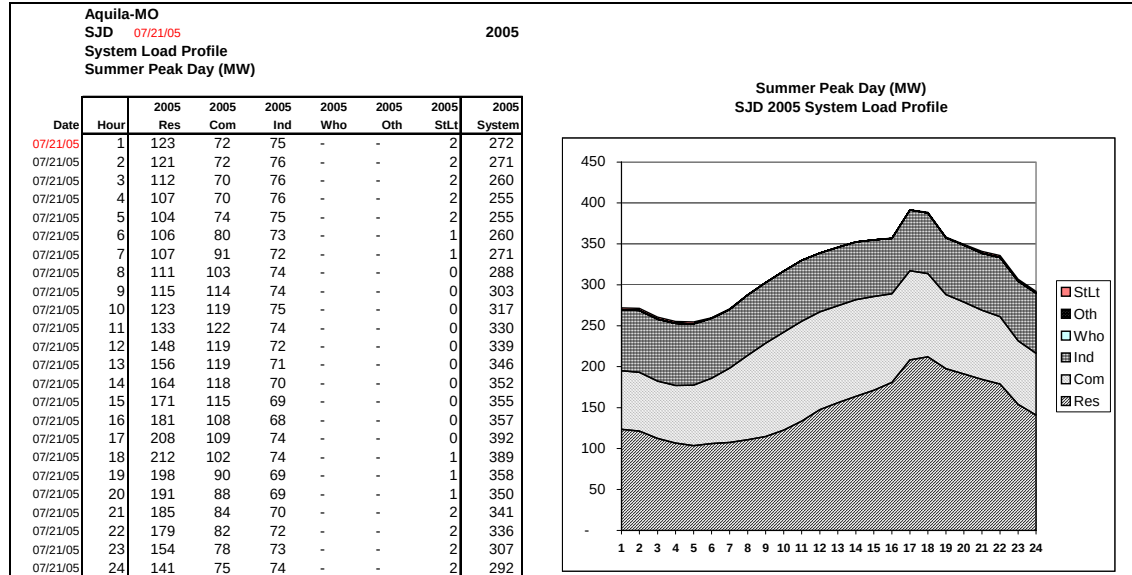
(8)(F)(1) The plots shall show each of the major class components of the net system load profile in a cumulative manner.

(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.

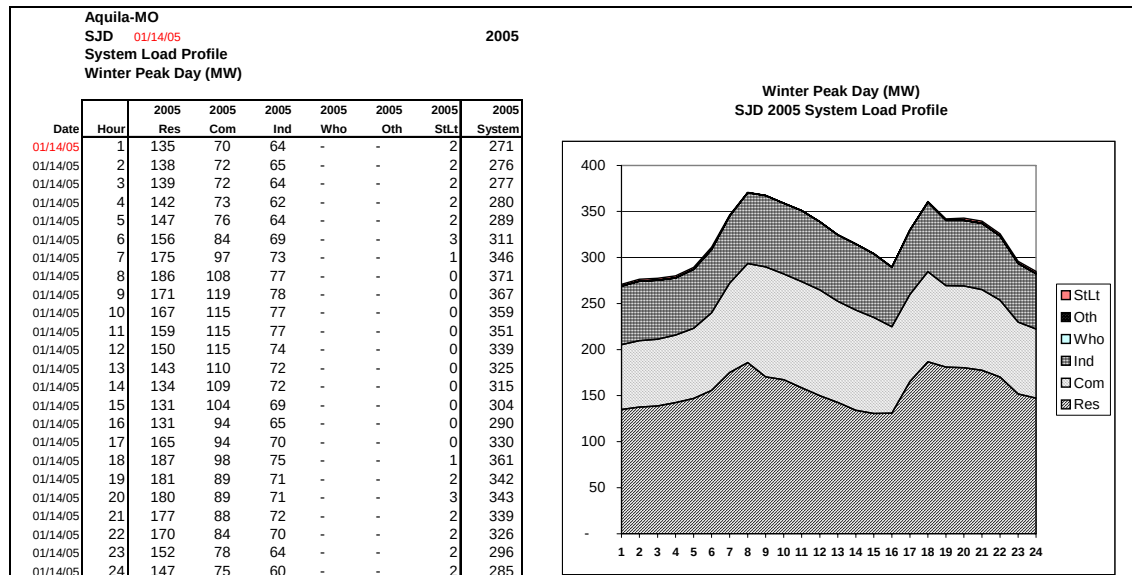
Compliance: See Plots E-101 through E-108 for base-case SJLP forecast reports designed to comply with section (8)(F) reporting requirements.

Linked Files: Aquila Networks – St. Joseph Light & Power (SJLP)
8F_SJD_M2007F_ClassLoads.xls

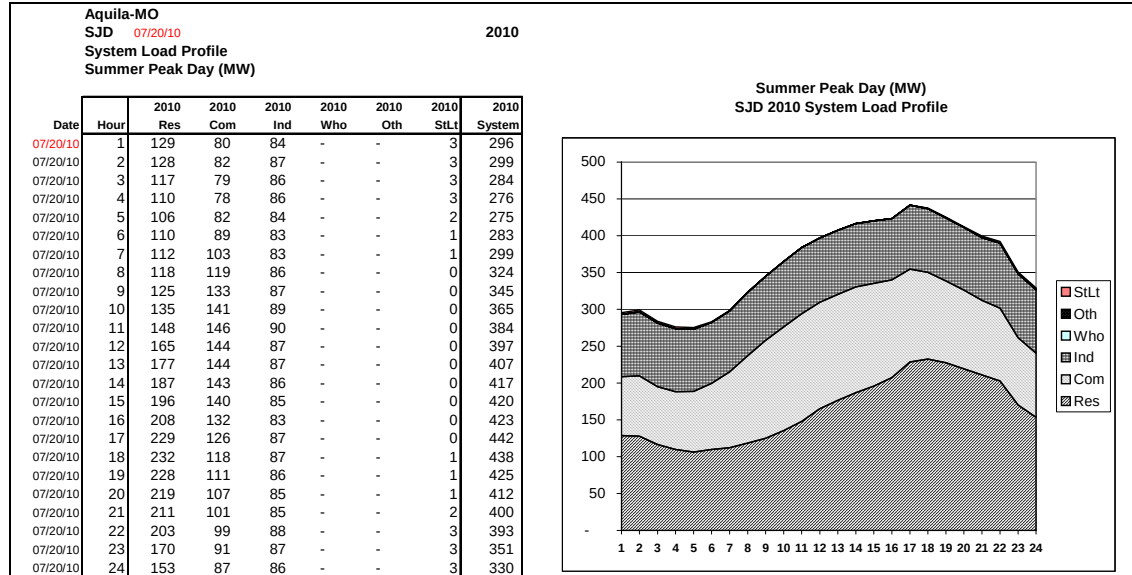
Plot E-101: SJD System Peak Day Loads by Class (Summer 2005)



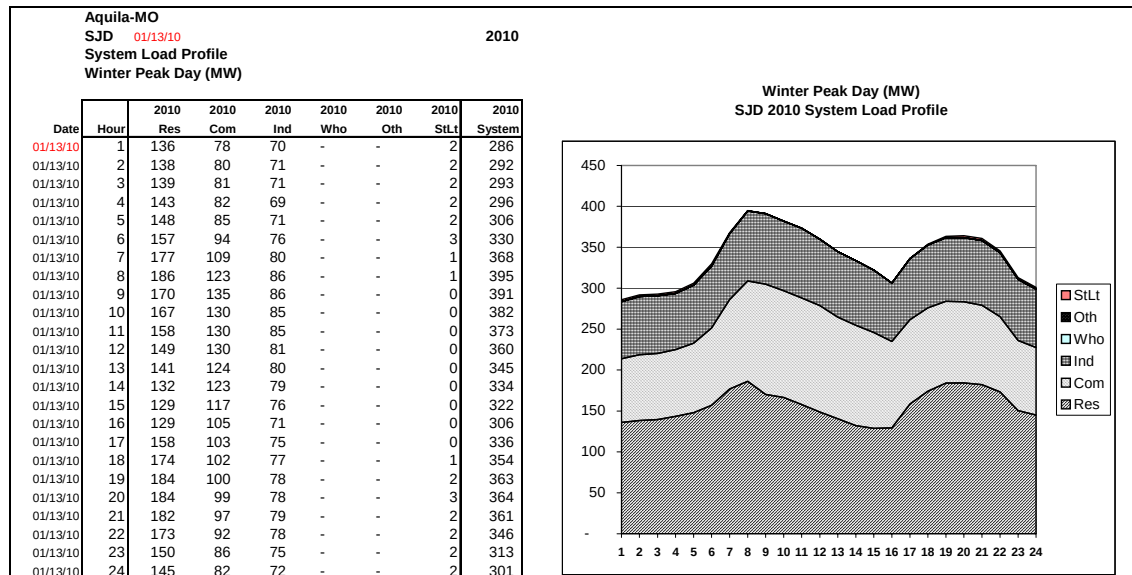
Plot E-102: SJD System Peak Day Loads by Class (Winter 2005)



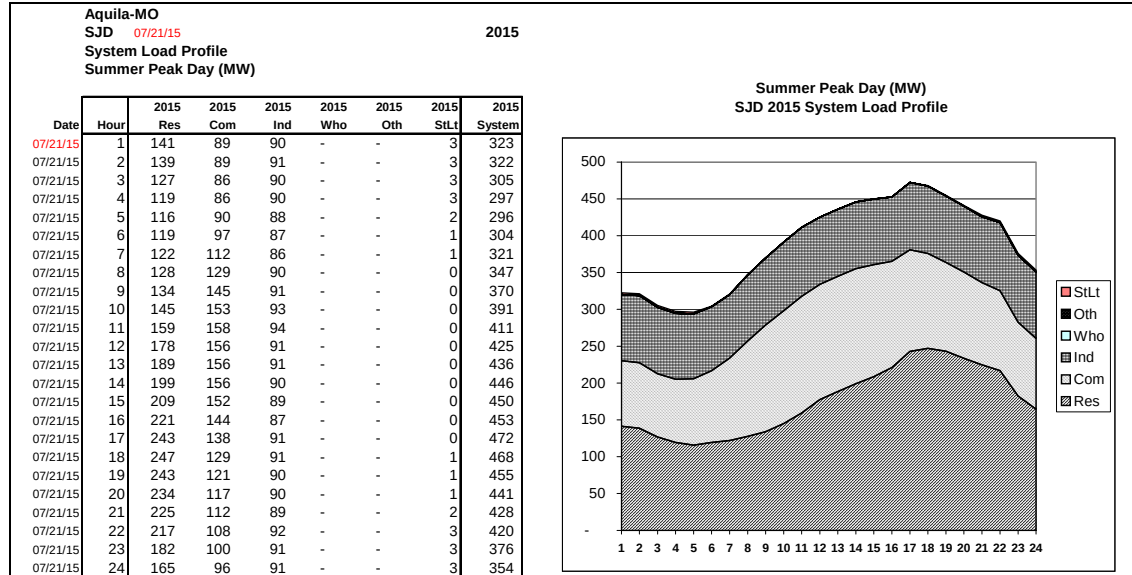
Plot E-103: SJD System Peak Day Loads by Class (Summer 2010)



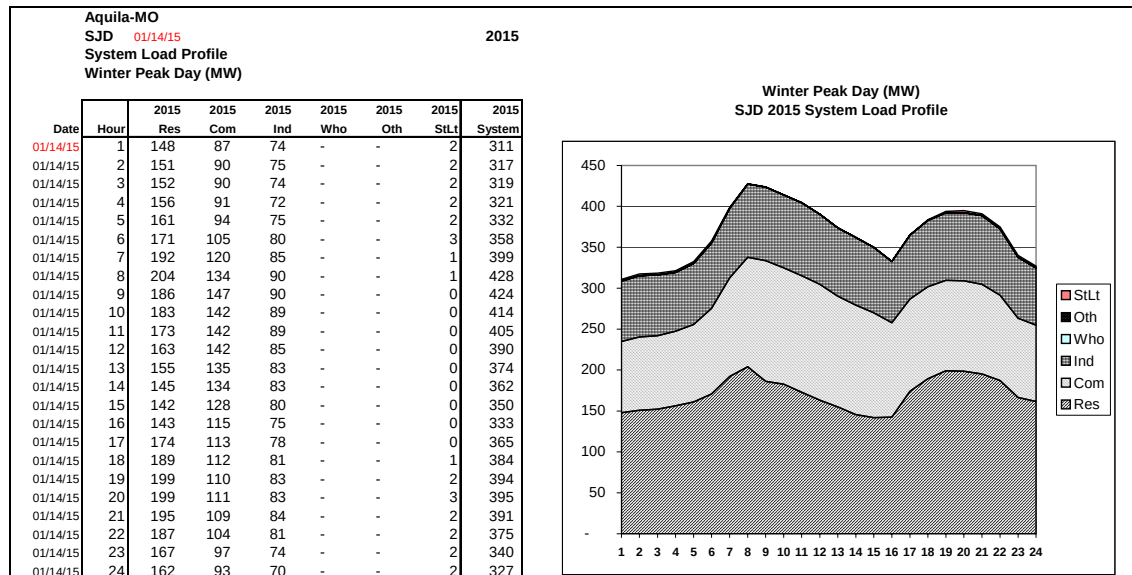
Plot E-104: SJD System Peak Day Loads by Class (Winter 2010)



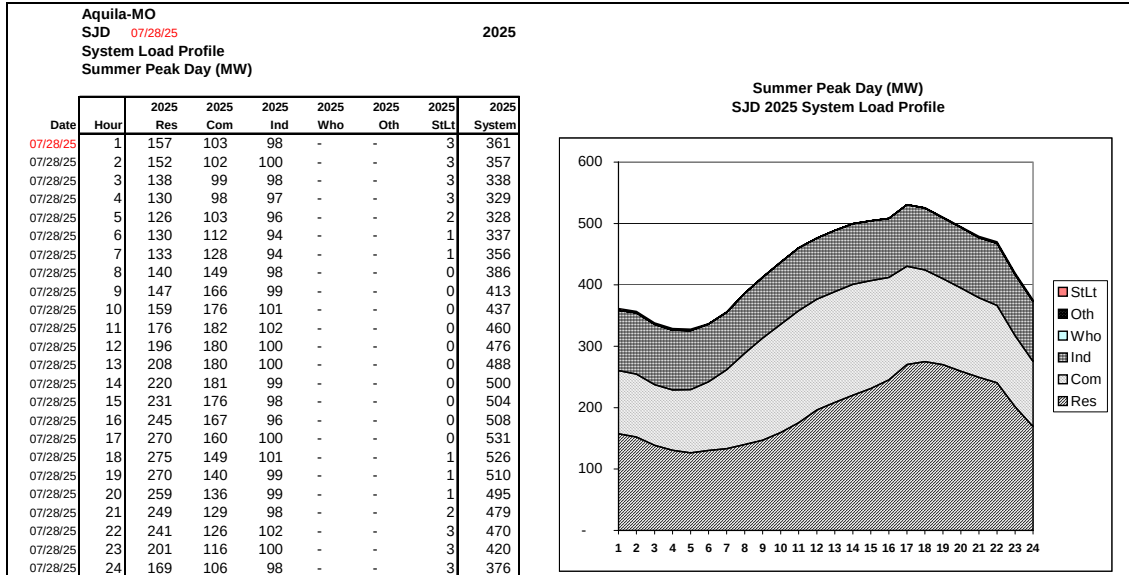
Plot E-105: SJD System Peak Day Loads by Class (Summer 2015)



Plot E-106: SJD System Peak Day Loads by Class (Winter 2015)



Plot E-107: SJD System Peak Day Loads by Class (Summer 2025)



Plot E-108: SJD System Peak Day Loads by Class (Winter 2025)

