

**AQUILA NETWORKS - MPS SYSTEM ENERGY LOSS CALCULATION\***

	NET GENERATION (MWhs)	NET INTERCHANGE NET of PURCHASES AND SALES (Off system & Divisional) (MWhs)	INADVERTANT FLOWS (MWhs)	NET SYSTEM INPUT (MWhs)	RETAIL SALES (MWhs)	WHOLESALE SALES (MWhs)	COMPANY USE (MWhs)	SYSTEM ENERGY LOSSES (MWhs)
Jan-02	418,958	33,495	(533)	451,920	439,343	13,855	871	(2,149)
Feb-02	326,160	75,591	1,482	403,233	353,226	12,567	581	36,859
Mar-02	276,961	152,886	2,588	432,435	380,241	12,888	895	38,411
Apr-02	361,411	19,222	(247)	380,386	386,225	12,353	596	(18,788)
May-02	355,228	53,812	(794)	408,246	342,600	12,191	468	52,987
Jun-02	391,077	164,985	(946)	555,116	408,786	16,755	426	129,149
Jul-02	378,887	278,671	(1,689)	655,869	539,483	20,183	479	95,724
Aug-02	415,804	211,169	(499)	626,474	594,946	20,386	511	10,631
Sep-02	295,569	210,776	432	506,777	523,206	17,529	433	(34,391)
Oct-02	388,747	25,340	161	414,248	415,048	12,742	1,355	(14,896)
Nov-02	346,861	62,540	(414)	408,987	358,414	12,772	652	37,149
Dec-02	398,407	61,950	(34)	460,323	381,874	13,878	1,020	63,551
YR 2002	4,354,070	1,350,437	(493)	5,704,014	5,123,392	178,099	8,287	394,235

\* Net Generation + Net Interchange + Inadvertant Flows = Net System Input (NSI) = Retail Sales + Wholesale Sales + Company Use + System Energy Losses

System Energy Loss Factor = .0691

**AQUILA NETWORKS - L&P SYSTEM ENERGY LOSS CALCULATION\***

	NET GENERATION (MWhs)	NET INTERCHANGE Net of Purchases and Sales (Off system & Divisional) (MWhs)	NET SYSTEM INPUT (MWhs)	RETAIL SALES (MWhs)	COMPANY USE (MWhs)	SYSTEM ENERGY LOSSES (MWhs)
Jan-02	135,507	24,938	160,445	151,508	986	7,951
Feb-02	129,096	19,067	148,163	154,765	895	(7,497)
Mar-02	82,865	74,473	157,338	142,884	885	13,569
Apr-02	83,988	58,205	142,193	134,803	781	6,609
May-02	104,058	29,565	133,623	129,308	674	3,641
Jun-02	129,754	47,292	177,046	138,356	332	38,358
Jul-02	160,223	48,778	209,001	185,418	1,211	22,372
Aug-02	145,451	46,481	191,932	185,633	320	5,979
Sep-02	142,742	20,663	163,405	162,855	792	(242)
Oct-02	126,382	20,439	146,821	134,991	947	10,883
Nov-02	134,412	8,239	142,651	131,596	671	10,384
Dec-02	147,246	18,201	165,447	145,926	872	18,649
YR 2002	1,521,724	416,341	1,938,065	1,798,044	9,366	130,655

\* Net Generation + Net Interchange = Net System Input (NSI) = Retail Sales + Company Use + System Energy Losses

**System Energy Loss Factor = .0674**

## Demand Allocation Factor

Month	Hour	System Peak (MWs)	Load at System Peak	
			Retail (MWs)	Wholesale (MWs)
Jan-02	7:00 PM	835.676	823.190	12.486
Feb-02	7:00 PM	833.099	820.903	12.197
Mar-02	8:00 AM	795.568	784.252	11.316
Apr-02	5:00 PM	784.312	773.363	10.949
May-02	5:00 PM	1,056.387	1,041.449	14.938
<b>Jun-02</b>	<b>5:00 PM</b>	<b>1,197.233</b>	<b>1,179.991</b>	<b>17.242</b>
<b>Jul-02</b>	<b>4:00 PM</b>	<b>1,297.292</b>	<b>1,281.739</b>	<b>15.553</b>
<b>Aug-02</b>	<b>4:00 PM</b>	<b>1,309.225</b>	<b>1,294.070</b>	<b>15.155</b>
<b>Sep-02</b>	<b>5:00 PM</b>	<b>1,238.653</b>	<b>1,220.503</b>	<b>18.150</b>
Oct-02	5:00 PM	1,031.384	1,016.465	14.919
Nov-02	7:00 PM	763.125	752.177	10.948
Dec-02	6:00 PM	837.076	825.286	11.790
4CP		5,042.403	4,976.303	66.100
<b>Allocation Factor</b>		<b>1.0000</b>	<b>0.9869</b>	<b>0.0131</b>

## Energy Allocation Factor

Month	Retail (MWhs)	Wholesale (MWhs)	Total
Jan-02	439,343.129	5,488.356	444,831.485
Feb-02	353,225.840	5,575.442	358,801.282
Mar-02	380,240.873	5,930.837	386,171.710
Apr-02	386,225.255	5,816.194	392,041.449
May-02	342,600.208	4,250.933	346,851.141
Jun-02	408,785.589	7,462.689	416,248.278
Jul-02	539,483.268	8,404.009	547,887.277
Aug-02	594,945.716	9,848.081	604,793.797
Sep-02	523,206.014	9,933.605	533,139.619
Oct-02	415,047.896	6,223.277	421,271.173
Nov-02	358,414.146	6,416.698	364,830.844
Dec-02	381,874.144	6,528.394	388,402.538
Total	5,123,392.078	81,878.515	5,205,270.593
<b>Allocation Factor</b>	<b>0.9843</b>	<b>0.0157</b>	<b>1.0000</b>