

PENNSYLVANIA POWER & LIGHT COMPANY

R -00 97 3 954

RECEIVED
Exhibit OGK5
Bill Frequency Analysis

APR 01 1997

ORIGINAL **Witness: Oliver G. Kasper**
PA PUBLIC UTILITY COMMISSION
PROTHONOTARY'S OFFICE

ORIGINAL

PENNSYLVANIA POWER AND LIGHT COMPANY

Exhibit OGK-5

**DOCUMENT
FOLDER**

Bill Distributions
12 Months Ending December 21, 1996

Witness: Oliver G. Kasper

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97 APR - 1 PM 1:33
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APR 01 1997

PA PUBLIC UTILITY COMMISSION
PROTHONOTARY'S OFFICE

W. J. ETE
APR 02 1997

ERM

KWH Step Report for RSO RW0 RW1
 press pfl5 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
0	205,386	205,386	0	0	0
1	2,865	208,251	2,865	2,865	12,777,463
2	2,125	210,376	4,250	7,115	25,552,061
3	12,790	223,166	38,370	45,485	38,324,534
4	10,503	233,669	42,012	87,497	51,084,217
5	9,023	242,692	45,115	132,612	63,833,397
6	8,163	250,855	48,978	181,590	76,573,554
7	7,241	258,096	50,687	232,277	89,305,548
8	6,927	265,023	55,416	287,693	102,030,301
9	6,520	271,543	58,680	346,373	114,748,127
10	6,816	278,359	68,160	414,533	127,459,433
11	6,006	284,365	66,066	480,599	140,163,923
12	5,712	290,077	68,544	549,143	152,862,407
13	5,557	295,634	72,241	621,384	165,555,179
14	5,271	300,905	73,794	695,178	178,242,394
15	5,433	306,338	81,495	776,673	190,924,338
16	4,919	311,257	78,704	855,377	203,600,849
17	5,017	316,274	85,289	940,666	216,272,441
18	4,951	321,225	89,118	1,029,784	228,939,016
19	4,720	325,945	89,680	1,119,464	241,600,640
20	4,810	330,755	96,200	1,215,664	254,257,544
21	4,706	335,461	98,826	1,314,490	266,909,638
22	4,709	340,170	103,598	1,418,088	279,557,026
23	4,630	344,800	106,490	1,524,578	292,199,705
24	4,521	349,321	108,504	1,633,082	304,837,754
25	4,362	353,683	109,050	1,742,132	317,471,282
30	22,922	376,605	643,023	2,385,155	380,572,475
35	21,451	398,056	708,309	3,093,464	443,561,219
40	22,272	420,328	847,116	3,940,580	506,441,420
45	21,638	441,966	930,947	4,871,527	569,211,262
50	21,887	463,853	1,051,189	5,922,716	631,872,516
55	22,187	486,040	1,176,290	7,099,006	694,423,501
60	23,191	509,231	1,347,002	8,446,008	756,863,088
65	22,907	532,138	1,443,883	9,889,891	819,186,106
70	24,289	556,427	1,652,916	11,542,807	881,392,347
75	24,255	580,682	1,771,593	13,314,400	943,476,925
80	25,605	606,287	1,997,739	15,312,139	1,005,437,099
85	26,524	632,811	2,202,125	17,514,264	1,067,267,494
90	27,637	660,448	2,433,250	19,947,514	1,128,963,604
95	28,305	688,753	2,632,918	22,580,432	1,190,519,552
100	30,585	719,338	2,999,880	25,580,312	1,251,931,412
105	30,374	749,712	3,129,835	28,710,147	1,313,189,532
110	32,467	782,179	3,507,377	32,217,524	1,374,291,224
115	33,444	815,623	3,779,546	35,997,070	1,435,228,060
120	34,584	850,207	4,082,548	40,079,618	1,495,996,658
125	35,979	886,186	4,425,250	44,504,868	1,556,587,743
130	37,599	923,785	4,814,601	49,319,469	1,616,997,789
135	37,988	961,773	5,053,851	54,373,320	1,677,218,580
140	39,609	1,001,382	5,467,553	59,840,873	1,737,246,253

ERM

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
145	40,183	1,041,565	5,747,349	65,588,222	1,797,074,402
150	41,765	1,083,330	6,182,411	71,770,633	1,856,698,483
155	42,301	1,125,631	6,472,216	78,242,849	1,916,111,639
160	44,161	1,169,792	6,978,834	85,221,683	1,975,310,803
165	44,239	1,214,031	7,211,831	92,433,514	2,034,288,484
170	45,977	1,260,008	7,725,740	100,159,254	2,093,042,224
175	45,792	1,305,800	7,922,659	108,081,913	2,151,565,488
180	47,417	1,353,217	8,441,627	116,523,540	2,209,857,300
185	47,677	1,400,894	8,725,291	125,248,831	2,267,910,506
190	49,282	1,450,176	9,266,585	134,515,416	2,325,723,286
195	49,415	1,499,591	9,537,189	144,052,605	2,383,287,915
200	50,756	1,550,347	10,052,501	154,105,106	2,440,605,506
225	262,290	1,812,637	55,901,950	210,007,056	2,723,304,756
250	276,481	2,089,118	65,831,870	275,838,926	2,999,271,676
275	286,272	2,375,390	75,306,037	351,144,963	3,268,196,188
300	295,969	2,671,359	85,263,920	436,408,883	3,529,855,883
325	300,094	2,971,453	93,957,733	530,366,616	3,784,070,316
350	305,411	3,276,864	103,239,283	633,605,899	4,030,700,649
375	307,314	3,584,178	111,561,834	745,167,733	4,269,669,358
400	308,325	3,892,503	119,642,812	864,810,545	4,500,948,945
425	307,134	4,199,637	126,841,790	991,652,335	4,724,517,435
450	305,559	4,505,196	133,829,081	1,125,481,416	4,940,425,266
475	300,459	4,805,655	139,105,114	1,264,586,530	5,148,753,680
500	296,299	5,101,954	144,586,863	1,409,173,393	5,349,620,893
525	288,263	5,390,217	147,872,517	1,557,045,910	5,543,177,710
550	281,526	5,671,743	151,453,231	1,708,499,141	5,729,607,441
575	275,140	5,946,883	154,891,750	1,863,390,891	5,909,071,341
600	269,916	6,216,799	158,720,852	2,022,111,743	6,081,741,743
625	259,217	6,476,016	158,878,590	2,180,990,333	6,247,760,958
650	249,646	6,725,662	159,261,356	2,340,251,689	6,407,423,239
675	240,106	6,965,768	159,170,697	2,499,422,386	6,560,952,061
700	231,529	7,197,297	159,273,826	2,658,696,212	6,708,582,612
725	221,838	7,419,135	158,156,561	2,816,852,773	6,850,545,423
750	213,038	7,632,173	157,197,792	2,974,050,565	6,987,057,565
775	204,594	7,836,767	156,089,835	3,130,140,400	7,118,353,950
800	196,950	8,033,717	155,189,916	3,285,330,316	7,244,635,916
825	186,476	8,220,193	151,596,424	3,436,926,740	7,366,117,940
850	180,744	8,400,937	151,452,104	3,588,378,844	7,483,004,044
875	171,134	8,572,071	147,675,997	3,736,054,841	7,595,485,591
900	165,079	8,737,150	146,583,615	3,882,638,456	7,703,767,556
925	156,823	8,893,973	143,165,589	4,025,804,045	7,808,014,345
950	151,080	9,045,053	141,700,604	4,167,504,649	7,908,410,849
975	143,577	9,188,630	138,252,746	4,305,757,395	8,005,120,920
1,000	138,315	9,326,945	136,649,067	4,442,406,462	8,098,310,462
1,100	489,889	9,816,834	513,924,924	4,956,331,386	8,438,947,886
1,200	409,843	10226677	470,914,781	5,427,246,167	8,734,652,567
1,300	342,889	10569566	428,331,813	5,855,577,980	8,992,845,880
1,400	287,348	10856914	387,681,956	6,243,259,936	9,219,568,936
1,500	242,394	11099308	351,282,396	6,594,542,332	9,419,853,832

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
1,600	205,481	11304789	318,341,669	6,912,884,001	9,597,780,001
1,700	175,518	11480307	289,491,961	7,202,375,962	9,756,697,362
1,800	150,048	11630355	262,476,562	7,464,852,524	9,899,341,724
1,900	130,365	11760720	241,114,953	7,705,967,477	10,028,012,577
2,000	114,000	11874720	222,245,413	7,928,212,890	10,144,470,890
2,100	100,375	11975095	205,740,979	8,133,953,869	10,250,237,269
2,200	88,657	12063752	190,580,083	8,324,533,952	10,346,547,352
2,300	79,369	12143121	178,559,451	8,503,093,403	10,434,467,803
2,400	70,903	12214024	166,603,969	8,669,697,372	10,514,877,372
2,500	64,362	12278386	157,691,130	8,827,388,502	10,588,546,002
2,600	58,548	12336934	149,279,728	8,976,668,230	10,656,047,230
2,700	52,996	12389930	140,444,168	9,117,112,398	10,717,993,698
2,800	49,075	12439005	134,955,369	9,252,067,767	10,774,830,967
2,900	44,696	12483701	127,384,511	9,379,452,278	10,826,981,478
3,000	41,387	12525088	122,086,978	9,501,539,256	10,874,822,256
3,100	37,292	12562380	113,733,948	9,615,273,204	10,918,727,104
3,200	34,938	12597318	110,047,652	9,725,320,856	10,959,020,056
3,300	31,808	12629126	103,367,278	9,828,688,134	10,995,974,034
3,400	29,329	12658455	98,254,375	9,926,942,509	11,029,882,109
3,500	26,832	12685287	92,564,622	10,019,507,131	11,060,974,131
3,600	24,651	12709938	87,515,928	10,107,023,059	11,089,502,659
3,700	22,780	12732718	83,151,024	10,190,174,083	11,115,658,783
3,800	20,816	12753534	78,064,852	10,268,238,935	11,139,635,935
3,900	19,059	12772593	73,380,964	10,341,619,899	11,161,618,299
4,000	17,678	12790271	69,831,516	10,411,451,415	11,181,763,415
4,100	16,072	12806343	65,088,604	10,476,540,019	11,200,214,619
4,200	14,949	12821292	62,036,997	10,538,577,016	11,217,116,416
4,300	13,350	12834642	56,738,545	10,595,315,561	11,232,605,661
4,400	12,270	12846912	53,372,957	10,648,688,518	11,246,811,318
4,500	11,107	12858019	49,431,806	10,698,120,324	11,259,855,324
4,600	10,153	12868172	46,195,837	10,744,316,161	11,271,830,361
4,700	9,271	12877443	43,109,222	10,787,425,383	11,282,833,583
4,800	8,536	12885979	40,548,423	10,827,973,806	11,292,949,806
4,900	7,776	12893755	37,714,679	10,865,688,485	11,302,249,085
5,000	7,071	12900826	34,998,378	10,900,686,863	11,310,801,863
5,100	6,281	12907107	31,719,026	10,932,405,889	11,318,690,089
5,200	5,828	12912935	30,009,239	10,962,415,128	11,325,967,928
5,300	5,285	12918220	27,744,053	10,990,159,181	11,332,692,881
5,400	4,872	12923092	26,070,819	11,016,230,000	11,338,917,800
5,500	4,296	12927388	23,412,665	11,039,642,665	11,344,678,165
5,600	4,018	12931406	22,300,038	11,061,942,703	11,350,023,503
5,700	3,588	12934994	20,274,024	11,082,216,727	11,354,990,227
5,800	3,369	12938363	19,372,787	11,101,589,514	11,359,608,314
5,900	3,096	12941459	18,110,464	11,119,699,978	11,363,900,978
6,000	2,949	12944408	17,551,591	11,137,251,569	11,367,897,569
6,100	2,509	12946917	15,181,186	11,152,432,755	11,371,617,955
6,200	2,353	12949270	14,472,520	11,166,905,275	11,375,095,075
6,300	2,193	12951463	13,709,681	11,180,614,956	11,378,346,756
6,400	2,008	12953471	12,751,798	11,193,366,754	11,381,385,954

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
6,500	1,777	12955248	11,463,860	11,204,830,614	11,384,237,114
6,600	1,748	12956996	11,451,534	11,216,282,148	11,386,911,948
6,700	1,486	12958482	9,882,307	11,226,164,455	11,389,423,355
6,800	1,432	12959914	9,666,385	11,235,830,840	11,391,788,840
6,900	1,298	12961212	8,894,420	11,244,725,260	11,394,020,560
7,000	1,223	12962435	8,503,377	11,253,228,637	11,396,126,637
7,100	1,093	12963528	7,705,778	11,260,934,415	11,398,113,515
7,200	1,062	12964590	7,595,947	11,268,530,362	11,399,995,162
7,300	906	12965496	6,568,312	11,275,098,674	11,401,775,574
7,400	948	12966444	6,967,834	11,282,066,508	11,403,463,508
7,500	810	12967254	6,035,927	11,288,102,435	11,405,064,935
7,600	751	12968005	5,671,519	11,293,773,954	11,406,588,354
7,700	709	12968714	5,424,146	11,299,198,100	11,408,037,600
7,800	655	12969369	5,079,142	11,304,277,242	11,409,421,242
7,900	557	12969926	4,372,601	11,308,649,843	11,410,741,543
8,000	627	12970553	4,985,158	11,313,635,001	11,412,003,001
8,100	536	12971089	4,316,447	11,317,951,448	11,413,207,448
8,200	488	12971577	3,978,244	11,321,929,692	11,414,360,092
8,300	486	12972063	4,009,841	11,325,939,533	11,415,463,333
8,400	455	12972518	3,800,631	11,329,740,164	11,416,520,564
8,500	368	12972886	3,110,159	11,332,850,323	11,417,535,823
8,600	428	12973314	3,660,723	11,336,511,046	11,418,512,046
8,700	348	12973662	3,011,485	11,339,522,531	11,419,449,431
8,800	338	12974000	2,958,378	11,342,480,909	11,420,352,109
8,900	285	12974285	2,522,623	11,345,003,532	11,421,223,132
9,000	325	12974610	2,910,762	11,347,914,294	11,422,065,294
9,100	274	12974884	2,479,942	11,350,394,236	11,422,875,736
9,200	291	12975175	2,663,769	11,353,058,005	11,423,658,805
9,300	275	12975450	2,545,737	11,355,603,742	11,424,414,442
9,400	260	12975710	2,431,897	11,358,035,639	11,425,142,239
9,500	248	12975958	2,343,454	11,360,379,093	11,425,843,593
9,600	234	12976192	2,235,441	11,362,614,534	11,426,521,734
9,700	195	12976387	1,882,237	11,364,496,771	11,427,178,171
9,800	189	12976576	1,843,761	11,366,340,532	11,427,815,932
9,900	202	12976778	1,991,339	11,368,331,871	11,428,434,771
10,000	191	12976969	1,900,963	11,370,232,834	11,429,032,834
11,000	1,397	12978366	14,641,111	11,384,873,945	11,434,186,945
12,000	929	12979295	10,680,350	11,395,554,295	11,438,202,295
13,000	618	12979913	7,715,179	11,403,269,474	11,441,437,474
14,000	501	12980414	6,749,703	11,410,019,177	11,444,109,177
15,000	358	12980772	5,190,818	11,415,209,995	11,446,364,995
16,000	267	12981039	4,141,439	11,419,351,434	11,448,311,434
17,000	209	12981248	3,445,173	11,422,796,607	11,450,013,607
18,000	209	12981457	3,659,253	11,426,455,860	11,451,511,860
19,000	146	12981603	2,695,670	11,429,151,530	11,452,825,530
20,000	114	12981717	2,228,915	11,431,380,445	11,454,020,445
21,000	106	12981823	2,167,169	11,433,547,614	11,455,093,614
22,000	91	12981914	1,957,598	11,435,505,212	11,456,075,212
23,000	92	12982006	2,072,141	11,437,577,353	11,456,966,353

KWH Step Report for RSO RWO RWI
 press pfl5 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
24,000	63	12982069	1,481,105	11,439,058,458	11,457,778,458
25,000	78	12982147	1,909,494	11,440,967,952	11,458,517,952
26,000	59	12982206	1,505,059	11,442,473,011	11,459,191,011
27,000	62	12982268	1,640,776	11,444,113,787	11,459,800,787
28,000	47	12982315	1,290,084	11,445,403,871	11,460,355,871
29,000	34	12982349	969,676	11,446,373,547	11,460,873,547
30,000	40	12982389	1,183,831	11,447,557,378	11,461,357,378
31,000	40	12982429	1,217,804	11,448,775,182	11,461,795,182
32,000	45	12982474	1,416,633	11,450,191,815	11,462,191,815
33,000	28	12982502	911,840	11,451,103,655	11,462,554,655
34,000	20	12982522	667,430	11,451,771,085	11,462,889,085
35,000	25	12982547	864,474	11,452,635,559	11,463,205,559
36,000	27	12982574	958,009	11,453,593,568	11,463,493,568
37,000	17	12982591	621,264	11,454,214,832	11,463,760,832
38,000	20	12982611	748,732	11,454,963,564	11,464,007,564
39,000	16	12982627	614,487	11,455,578,051	11,464,236,051
40,000	7	12982634	275,718	11,455,853,769	11,464,453,769
41,000	6	12982640	244,157	11,456,097,926	11,464,666,926
42,000	8	12982648	332,244	11,456,430,170	11,464,872,170
43,000	6	12982654	253,826	11,456,683,996	11,465,068,996
44,000	8	12982662	348,730	11,457,032,726	11,465,260,726
45,000	10	12982672	445,120	11,457,477,846	11,465,442,846
46,000	6	12982678	273,193	11,457,751,039	11,465,617,039
47,000	8	12982686	372,598	11,458,123,637	11,465,784,637
48,000	8	12982694	378,813	11,458,502,450	11,465,942,450
49,000	10	12982704	485,201	11,458,987,651	11,466,092,651
50,000	6	12982710	297,867	11,459,285,518	11,466,235,518
51,000	7	12982717	354,339	11,459,639,857	11,466,371,857
52,000	5	12982722	257,370	11,459,897,227	11,466,501,227
53,000	6	12982728	315,032	11,460,212,259	11,466,625,259
54,000	3	12982731	160,624	11,460,372,883	11,466,744,883
55,000	4	12982735	217,977	11,460,590,860	11,466,860,860
56,000	6	12982741	333,060	11,460,923,920	11,466,971,920
57,000	1	12982742	56,400	11,460,980,320	11,467,079,320
58,000	2	12982744	115,133	11,461,095,453	11,467,185,453
59,000	3	12982747	174,479	11,461,269,932	11,467,287,932
61,000	3	12982750	181,022	11,461,450,954	11,467,489,954
62,000	3	12982753	184,905	11,461,635,859	11,467,587,859
63,000	7	12982760	436,959	11,462,072,818	11,467,679,818
64,000	4	12982764	254,173	11,462,326,991	11,467,766,991
65,000	4	12982768	258,584	11,462,585,575	11,467,850,575
66,000	2	12982770	131,017	11,462,716,592	11,467,930,592
67,000	3	12982773	199,451	11,462,916,043	11,468,008,043
68,000	3	12982776	202,320	11,463,118,363	11,468,082,363
69,000	3	12982779	205,225	11,463,323,588	11,468,153,588
70,000	1	12982780	69,150	11,463,392,738	11,468,222,738
71,000	5	12982785	352,055	11,463,744,793	11,468,288,793
72,000	3	12982788	214,750	11,463,959,543	11,468,351,543
73,000	2	12982790	145,085	11,464,104,628	11,468,411,628

KWH Step Report for RSO RWO RW1
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
74,000	2	12982792	147,400	11,464,252,028	11,468,470,028
75,000	3	12982795	223,841	11,464,475,869	11,468,525,869
77,000	1	12982796	76,873	11,464,552,742	11,468,633,742
79,000	1	12982797	78,200	11,464,630,942	11,468,738,942
80,000	13	12982810	1,037,563	11,465,668,505	11,468,788,505
82,000	1	12982811	81,800	11,465,750,305	11,468,866,305
85,000	2	12982813	169,240	11,465,919,545	11,468,979,545
87,000	1	12982814	86,850	11,466,006,395	11,469,051,395
89,000	1	12982815	88,800	11,466,095,195	11,469,121,195
91,000	3	12982818	271,950	11,466,367,145	11,469,188,145
96,000	1	12982819	95,600	11,466,462,745	11,469,342,745
97,000	1	12982820	96,995	11,466,559,740	11,469,372,740
98,000	1	12982821	98,000	11,466,657,740	11,469,401,740
100,000	2	12982823	199,000	11,466,856,740	11,469,456,740
110,000	4	12982827	416,120	11,467,272,860	11,469,692,860
120,000	4	12982831	459,600	11,467,732,460	11,469,892,460
130,000	1	12982832	121,920	11,467,854,380	11,470,064,380
150,000	4	12982836	576,000	11,468,430,380	11,470,380,380
160,000	4	12982840	622,379	11,469,052,759	11,470,492,759
210,000	3	12982843	613,200	11,469,665,959	11,470,925,959
250,000	1	12982844	244,400	11,469,910,359	11,471,160,359
260,000	1	12982845	256,000	11,470,166,359	11,471,206,359
300,000	3	12982848	890,290	11,471,056,649	11,471,356,649
605,760	1	12982849	605,760	11,471,662,409	11,471,662,409

KWH Step Report for RTS
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
0	169	169	0	0	0
1	1	170	1	1	175,509
3	6	176	18	19	526,525
4	11	187	44	63	702,027
5	7	194	35	98	877,518
6	3	197	18	116	1,053,002
7	2	199	14	130	1,228,483
8	3	202	24	154	1,403,962
9	2	204	18	172	1,579,438
10	4	208	40	212	1,754,912
11	6	214	66	278	1,930,382
12	5	219	60	338	2,105,846
13	4	223	52	390	2,281,305
14	6	229	84	474	2,456,760
15	4	233	60	534	2,632,209
16	3	236	48	582	2,807,654
17	4	240	68	650	2,983,096
18	3	243	54	704	3,158,534
19	8	251	152	856	3,333,969
20	9	260	180	1,036	3,509,396
21	8	268	168	1,204	3,684,814
22	5	273	110	1,314	3,860,224
23	2	275	46	1,360	4,035,629
24	4	279	96	1,456	4,211,032
25	8	287	200	1,656	4,386,431
30	41	328	1,152	2,808	5,263,308
35	21	349	710	3,518	6,140,033
40	23	372	876	4,394	7,016,634
45	32	404	1,369	5,763	7,893,093
50	20	424	966	6,729	8,769,429
55	22	446	1,163	7,892	9,645,652
60	30	476	1,750	9,642	10,521,762
65	25	501	1,575	11,217	11,397,722
70	24	525	1,644	12,861	12,273,571
75	35	560	2,559	15,420	13,149,270
80	31	591	2,420	17,840	14,024,800
85	30	621	2,503	20,343	14,900,188
90	31	652	2,729	23,072	15,775,412
95	33	685	3,065	26,137	16,650,472
100	33	718	3,236	29,373	17,525,373
105	28	746	2,892	32,265	18,400,125
110	33	779	3,574	35,839	19,274,729
115	34	813	3,846	39,685	20,149,160
120	34	847	4,008	43,693	21,023,413
125	35	882	4,296	47,989	21,897,489
130	36	918	4,626	52,615	22,771,415
135	38	956	5,058	57,673	23,645,143
140	45	1,001	6,218	63,891	24,518,671
145	37	1,038	5,299	69,190	25,391,990

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
150	40	1,078	5,914	75,104	26,265,104
155	38	1,116	5,816	80,920	27,138,030
160	47	1,163	7,444	88,364	28,010,764
165	44	1,207	7,176	95,540	28,883,255
170	40	1,247	6,722	102,262	29,755,532
175	44	1,291	7,611	109,873	30,627,598
180	49	1,340	8,741	118,614	31,499,454
185	47	1,387	8,600	127,214	32,371,049
190	47	1,434	8,839	136,053	33,242,413
195	29	1,463	5,614	141,667	34,113,592
200	54	1,517	10,698	152,365	34,984,565
225	265	1,782	56,543	208,908	39,335,508
250	303	2,085	72,340	281,248	43,679,498
275	317	2,402	83,397	364,645	48,015,545
300	339	2,741	97,630	462,275	52,343,375
325	395	3,136	123,708	585,983	56,662,133
350	414	3,550	139,960	725,943	60,970,743
375	465	4,015	168,841	894,784	65,268,409
400	475	4,490	184,600	1,079,384	69,554,584
425	464	4,954	191,476	1,270,860	73,828,560
450	552	5,506	241,876	1,512,736	78,090,136
475	512	6,018	237,023	1,749,759	82,338,259
500	615	6,633	300,192	2,049,951	86,572,451
525	571	7,204	293,042	2,342,993	90,791,843
550	620	7,824	333,749	2,676,742	94,996,442
575	684	8,508	385,096	3,061,838	99,184,588
600	701	9,209	412,607	3,474,445	103,355,845
625	731	9,940	448,622	3,923,067	107,509,317
650	852	10,792	543,756	4,466,823	111,642,723
675	798	11,590	529,195	4,996,018	115,755,418
700	908	12,498	624,793	5,620,811	119,846,811
725	925	13,423	659,681	6,280,492	123,915,367
750	994	14,417	733,496	7,013,988	127,959,738
775	1,051	15,468	801,948	7,815,936	131,978,686
800	1,074	16,542	846,192	8,662,128	135,970,928
825	1,169	17,711	950,310	9,612,438	139,935,213
850	1,192	18,903	999,000	10,611,438	143,870,188
875	1,182	20,085	1,019,852	11,631,290	147,775,165
900	1,307	21,392	1,160,756	12,792,046	151,649,446
925	1,320	22,712	1,205,417	13,997,463	155,491,013
950	1,388	24,100	1,302,046	15,299,509	159,298,609
975	1,403	25,503	1,351,116	16,650,625	163,071,250
1,000	1,429	26,932	1,412,164	18,062,789	166,808,789
1,100	6,137	33,069	6,449,370	24,512,159	181,382,059
1,200	6,569	39,638	7,563,839	32,075,998	195,323,998
1,300	6,854	46,492	8,569,533	40,645,531	208,587,331
1,400	6,820	53,312	9,212,075	49,857,606	221,170,006
1,500	6,613	59,925	9,590,023	59,447,629	233,077,129
1,600	6,510	66,435	10,091,486	69,539,115	244,327,915

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
1,700	6,336	72,771	10,452,678	79,991,793	254,933,693
1,800	5,940	78,711	10,400,730	90,392,523	264,933,123
1,900	5,569	84,280	10,297,714	100,690,237	274,346,437
2,000	5,278	89,558	10,293,355	110,983,592	283,223,592
2,100	4,970	94,528	10,190,021	121,173,613	291,588,613
2,200	4,671	99,199	10,045,996	131,219,609	299,473,409
2,300	4,311	103,510	9,700,488	140,920,097	306,906,497
2,400	4,226	107,736	9,931,473	150,851,570	313,912,370
2,500	3,897	111,633	9,547,756	160,399,326	320,511,826
2,600	3,664	115,297	9,346,151	169,745,477	326,736,077
2,700	3,613	118,910	9,575,394	179,320,871	332,594,471
2,800	3,505	122,415	9,641,268	188,962,139	338,098,539
2,900	3,244	125,659	9,246,659	198,208,798	343,263,898
3,000	3,069	128,728	9,053,161	207,261,959	348,111,959
3,100	2,888	131,616	8,808,595	216,070,554	352,662,754
3,200	2,785	134,401	8,772,769	224,843,323	356,929,723
3,300	2,662	137,063	8,653,642	233,496,965	360,926,465
3,400	2,455	139,518	8,224,774	241,721,739	364,665,739
3,500	2,413	141,931	8,326,284	250,048,023	368,162,523
3,600	2,268	144,199	8,052,393	258,100,416	371,424,816
3,700	2,141	146,340	7,813,593	265,914,009	374,464,609
3,800	2,043	148,383	7,660,645	273,574,654	377,295,654
3,900	1,894	150,277	7,292,736	280,867,390	379,931,290
4,000	1,775	152,052	7,014,450	287,881,840	382,385,840
4,100	1,661	153,713	6,728,367	294,610,207	384,666,707
4,200	1,566	155,279	6,499,029	301,109,236	386,785,036
4,300	1,403	156,682	5,962,807	307,072,043	388,754,843
4,400	1,355	158,037	5,893,596	312,965,639	390,586,039
4,500	1,246	159,283	5,545,081	318,510,720	392,288,220
4,600	1,191	160,474	5,418,840	323,929,560	393,867,960
4,700	1,093	161,567	5,082,482	329,012,042	395,333,742
4,800	1,003	162,570	4,765,400	333,777,442	396,695,842
4,900	935	163,505	4,534,382	338,311,824	397,959,524
5,000	865	164,370	4,281,836	342,593,660	399,133,660
5,100	791	165,161	3,995,228	346,588,888	400,225,588
5,200	725	165,886	3,734,890	350,323,778	401,242,178
5,300	713	166,599	3,742,619	354,066,397	402,185,097
5,400	616	167,215	3,295,528	357,361,925	403,062,125
5,500	567	167,782	3,089,017	360,450,942	403,878,942
5,600	537	168,319	2,980,999	363,431,941	404,642,341
5,700	513	168,832	2,899,345	366,331,286	405,353,486
5,800	477	169,309	2,743,291	369,074,577	406,014,777
5,900	400	169,709	2,340,148	371,414,725	406,631,825
6,000	422	170,131	2,511,688	373,926,413	407,208,413
6,100	359	170,490	2,171,451	376,097,864	407,744,664
6,200	359	170,849	2,208,798	378,306,662	408,246,462
6,300	336	171,185	2,100,744	380,407,406	408,713,306
6,400	308	171,493	1,956,305	382,363,711	409,147,711
6,500	292	171,785	1,883,479	384,247,190	409,551,690

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
6,600	244	172,029	1,598,361	385,845,551	409,928,951
6,700	210	172,239	1,396,818	387,242,369	410,283,669
6,800	225	172,464	1,518,329	388,760,698	410,615,898
6,900	213	172,677	1,459,259	390,219,957	410,926,857
7,000	189	172,866	1,314,081	391,534,038	411,218,038
7,100	187	173,053	1,317,614	392,851,652	411,489,152
7,200	186	173,239	1,330,319	394,181,971	411,742,771
7,300	147	173,386	1,065,878	395,247,849	411,979,449
7,400	140	173,526	1,028,611	396,276,460	412,201,260
7,500	132	173,658	983,767	397,260,227	412,410,227
7,600	111	173,769	838,340	398,098,567	412,606,967
7,700	118	173,887	902,777	399,001,344	412,792,044
7,800	109	173,996	844,529	399,845,873	412,965,473
7,900	77	174,073	604,208	400,450,081	413,129,581
8,000	93	174,166	739,530	401,189,611	413,285,611
8,100	78	174,244	627,846	401,817,457	413,432,857
8,200	86	174,330	701,266	402,518,723	413,572,323
8,300	76	174,406	627,168	403,145,891	413,703,491
8,400	86	174,492	718,567	403,864,458	413,826,858
8,500	62	174,554	524,156	404,388,614	413,942,614
8,600	71	174,625	606,976	404,995,590	414,051,390
8,700	64	174,689	553,893	405,549,483	414,153,783
8,800	53	174,742	463,919	406,013,402	414,250,202
8,900	37	174,779	327,152	406,340,554	414,341,654
9,000	42	174,821	376,166	406,716,720	414,429,720
9,100	38	174,859	343,720	407,060,440	414,513,340
9,200	50	174,909	457,746	407,518,186	414,592,986
9,300	51	174,960	471,963	407,990,149	414,667,549
9,400	23	174,983	215,071	408,205,220	414,738,220
9,500	35	175,018	330,586	408,535,806	414,805,806
9,600	35	175,053	333,942	408,869,748	414,869,748
9,700	21	175,074	202,678	409,072,426	414,931,226
9,800	31	175,105	302,344	409,374,770	414,990,170
9,900	32	175,137	315,185	409,689,955	415,045,855
10,000	28	175,165	278,729	409,968,684	415,098,684
11,000	160	175,325	1,682,356	411,651,040	415,534,040
12,000	117	175,442	1,342,790	412,993,830	415,825,830
13,000	65	175,507	812,180	413,806,010	416,029,010
14,000	51	175,558	687,398	414,493,408	416,173,408
15,000	27	175,585	392,166	414,885,574	416,280,574
16,000	21	175,606	325,407	415,210,981	416,362,981
17,000	14	175,620	230,782	415,441,763	416,427,763
18,000	18	175,638	315,223	415,756,986	416,476,986
19,000	7	175,645	128,980	415,885,966	416,512,966
20,000	9	175,654	175,240	416,061,206	416,541,206
21,000	8	175,662	163,940	416,225,146	416,561,146
22,000	1	175,663	21,280	416,246,426	416,576,426
23,000	1	175,664	22,740	416,269,166	416,591,166
24,000	1	175,665	23,440	416,292,606	416,604,606

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
25,000	2	175,667	49,440	416,342,046	416,617,046
26,000	3	175,670	77,360	416,419,406	416,627,406
27,000	2	175,672	52,800	416,472,206	416,634,206
28,000	1	175,673	27,840	416,500,046	416,640,046
30,000	1	175,674	30,000	416,530,046	416,650,046
31,000	2	175,676	61,320	416,591,366	416,653,366
33,000	1	175,677	32,800	416,624,166	416,657,166
35,280	1	175,678	35,280	416,659,446	416,659,446

KWH Step Report for RTD
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
0	6	6	0	0	0
4	2	8	8	8	14,336
6	2	10	12	20	21,500
7	1	11	7	27	25,080
10	1	12	10	37	35,817
23	1	13	23	60	82,331
30	1	14	29	89	107,369
35	1	15	33	122	125,247
40	2	17	78	200	143,120
45	1	18	41	241	160,981
50	1	19	46	287	178,837
55	2	21	108	395	196,690
70	1	22	68	463	250,223
75	1	23	71	534	268,059
85	1	24	82	616	303,726
90	2	26	174	790	321,550
100	1	27	99	889	357,189
105	1	28	105	994	375,004
120	1	29	118	1,112	428,432
125	1	30	121	1,233	446,233
135	2	32	269	1,502	481,832
140	1	33	138	1,640	499,620
155	1	34	155	1,795	552,975
160	1	35	158	1,953	570,753
170	1	36	170	2,123	606,303
175	1	37	174	2,297	624,072
180	2	39	360	2,657	641,837
185	2	41	363	3,020	659,585
190	2	43	377	3,397	677,327
195	2	45	383	3,780	695,055
200	4	49	796	4,576	712,776
225	13	62	2,742	7,318	801,118
250	10	72	2,378	9,696	889,196
275	25	97	6,584	16,280	976,855
300	14	111	3,987	20,267	1,063,967
325	26	137	8,151	28,418	1,150,643
350	13	150	4,389	32,807	1,236,807
375	15	165	5,410	38,217	1,322,592
400	33	198	12,850	51,067	1,407,867
425	28	226	11,547	62,614	1,492,314
450	25	251	11,027	73,641	1,576,191
475	25	276	11,627	85,268	1,659,418
500	29	305	14,112	99,380	1,741,880
525	25	330	12,863	112,243	1,823,743
550	33	363	17,755	129,998	1,904,848
575	36	399	20,256	150,254	1,985,079
600	35	434	20,654	170,908	2,064,508
625	43	477	26,440	197,348	2,142,973
650	36	513	22,991	220,339	2,220,389

KWH Step Report for RTD
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
675	55	568	36,445	256,784	2,296,634
700	73	641	50,225	307,009	2,371,309
725	63	704	44,964	351,973	2,444,323
750	54	758	39,968	391,941	2,515,941
775	53	811	40,407	432,348	2,586,073
800	57	868	44,905	477,253	2,654,853
825	60	928	48,783	526,036	2,722,186
850	48	976	40,105	566,141	2,788,041
875	56	1,032	48,312	614,453	2,852,703
900	66	1,098	58,636	673,089	2,915,889
925	60	1,158	54,871	727,960	2,977,560
950	63	1,221	59,139	787,099	3,037,649
975	59	1,280	56,758	843,857	3,096,107
1,000	53	1,333	52,339	896,196	3,153,196
1,100	230	1,563	242,149	1,138,345	3,368,045
1,200	232	1,795	266,740	1,405,085	3,559,085
1,300	203	1,998	253,111	1,658,196	3,727,796
1,400	179	2,177	241,822	1,900,018	3,878,218
1,500	142	2,319	205,829	2,105,847	4,012,347
1,600	144	2,463	223,475	2,329,322	4,132,522
1,700	121	2,584	199,794	2,529,116	4,239,316
1,800	87	2,671	152,116	2,681,232	4,335,432
1,900	81	2,752	149,775	2,831,007	4,423,207
2,000	91	2,843	177,214	3,008,221	4,502,221
2,100	74	2,917	151,825	3,160,046	4,573,346
2,200	67	2,984	144,010	3,304,056	4,637,256
2,300	49	3,033	109,958	3,414,014	4,695,114
2,400	36	3,069	84,481	3,498,495	4,748,895
2,500	47	3,116	3,116	3,613,561	4,798,561
2,600	42	3,158	106,838	3,720,399	4,843,599
2,700	36	3,194	95,652	3,816,051	4,885,251
2,800	38	3,232	104,474	3,920,525	4,922,925
2,900	28	3,260	79,866	4,000,391	4,957,391
3,000	20	3,280	58,921	4,059,312	4,989,312
3,100	26	3,306	79,201	4,138,513	5,018,913
3,200	23	3,329	72,437	4,210,950	5,046,150
3,300	22	3,351	71,449	4,282,399	5,071,099
3,400	22	3,373	73,754	4,356,153	5,093,953
3,500	13	3,386	44,761	4,400,914	5,114,914
3,600	9	3,395	31,933	4,432,847	5,134,847
3,700	23	3,418	84,082	4,516,929	5,153,329
3,800	19	3,437	71,461	4,588,390	5,169,790
3,900	8	3,445	30,715	4,619,105	5,184,605
4,000	15	3,460	59,281	4,678,386	5,198,386
4,100	10	3,470	40,645	4,719,031	5,211,031
4,200	12	3,482	49,705	4,768,736	5,222,336
4,300	13	3,495	55,215	4,823,951	5,232,451
4,400	14	3,509	61,011	4,884,962	5,241,362
4,500	5	3,514	22,361	4,907,323	5,249,323

KWH Step Report for RTD
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
4,600	6	3,520	27,315	4,934,638	5,256,638
4,700	2	3,522	9,345	4,943,983	5,263,583
4,800	10	3,532	47,606	4,991,589	5,269,989
4,900	5	3,537	24,344	5,015,933	5,275,633
5,000	8	3,545	39,507	5,055,440	5,280,440
5,100	5	3,550	25,223	5,080,663	5,284,663
5,200	5	3,555	25,730	5,106,393	5,288,393
5,300	4	3,559	21,080	5,127,473	5,291,773
5,400	1	3,560	5,382	5,132,855	5,294,855
5,500	2	3,562	10,907	5,143,762	5,297,762
5,600	4	3,566	22,208	5,165,970	5,300,370
5,900	3	3,569	17,519	5,183,489	5,307,389
6,000	2	3,571	11,915	5,195,404	5,309,404
6,100	2	3,573	12,122	5,207,526	5,311,226
6,200	1	3,574	6,112	5,213,638	5,312,838
6,500	2	3,576	12,907	5,226,545	5,317,545
6,600	1	3,577	6,594	5,233,139	5,318,939
6,700	1	3,578	6,682	5,239,821	5,320,221
6,800	4	3,582	26,988	5,266,809	5,321,209
7,100	1	3,583	7,010	5,273,819	5,323,519
7,500	2	3,585	14,921	5,288,740	5,326,240
7,600	1	3,586	7,540	5,296,280	5,326,680
7,900	1	3,587	7,890	5,304,170	5,327,870
9,100	1	3,588	9,048	5,313,218	5,331,418
9,200	1	3,589	9,179	5,322,397	5,331,597
11,003	1	3,590	11,003	5,333,400	5,333,400

KWH Step Report for GSI G1D GIT GLV GLC
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
0	123,650	123,650	0	0	0
1	1,298	124,948	1,298	1,298	1,346,643
2	1,037	125,985	2,074	3,372	2,691,988
3	11,824	137,809	35,472	38,844	4,036,296
4	8,780	146,589	35,120	73,964	5,368,780
5	7,290	153,879	36,450	110,414	6,692,484
6	6,380	160,259	38,280	148,694	8,008,898
7	5,652	165,911	39,564	188,258	9,318,932
8	5,208	171,119	41,664	229,922	10,623,314
9	4,782	175,901	43,038	272,960	11,922,488
10	4,781	180,682	47,810	320,770	13,216,880
11	4,660	185,342	51,260	372,030	14,506,491
12	4,088	189,430	49,056	421,086	15,791,442
13	3,734	193,164	48,542	469,628	17,072,305
14	3,620	196,784	50,680	520,308	18,349,434
15	3,577	200,361	53,655	573,963	19,622,943
16	3,443	203,804	55,088	629,051	20,892,875
17	3,305	207,109	56,185	685,236	22,159,364
18	3,238	210,347	58,284	743,520	23,422,548
19	3,203	213,550	60,857	804,377	24,682,494
20	3,309	216,859	66,180	870,557	25,939,237
21	3,051	219,910	64,071	934,628	27,192,671
22	3,092	223,002	68,024	1,002,652	28,443,054
23	2,946	225,948	67,758	1,070,410	29,690,345
24	2,905	228,853	69,720	1,140,130	30,934,690
25	2,801	231,654	70,025	1,210,155	32,176,130
30	13,625	245,279	381,710	1,591,865	38,342,285
35	12,733	258,012	420,260	2,012,125	44,441,960
40	12,232	270,244	464,988	2,477,113	50,479,073
45	12,151	282,395	523,654	3,000,767	56,456,177
50	11,348	293,743	545,008	3,545,775	62,373,275
55	11,261	305,004	597,094	4,142,869	68,233,764
60	18,385	323,389	1,080,127	5,222,996	74,037,236
65	11,045	334,434	696,116	5,919,112	79,749,947
70	11,252	345,686	765,168	6,684,280	85,406,770
75	10,619	356,305	775,390	7,459,670	91,008,770
80	10,668	366,973	832,379	8,292,049	96,557,649
85	10,225	377,198	848,837	9,140,886	102,053,961
90	10,110	387,308	889,834	10,030,720	107,499,370
95	9,407	396,715	874,917	10,905,637	112,895,547
100	9,265	405,980	908,345	11,813,982	118,245,282
105	8,946	414,926	921,385	12,735,367	123,548,902
110	8,590	423,516	928,038	13,663,405	128,808,875
115	9,042	432,558	1,021,715	14,685,120	134,024,645
120	8,501	441,059	1,004,464	15,689,584	139,197,664
125	7,935	448,994	975,613	16,665,197	144,327,572
130	7,537	456,531	964,884	17,630,081	149,419,141
135	7,429	463,960	988,129	18,618,210	154,473,165
140	7,542	471,502	1,040,958	19,659,168	159,489,908

KWH Step Report for GS1 G1D G1T G1V G1C
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
145	7,044	478,546	1,007,169	20,666,337	164,469,652
150	7,171	485,717	1,061,555	21,727,892	169,414,292
155	6,843	492,560	1,046,817	22,774,709	174,323,324
160	7,284	499,844	1,151,968	23,926,677	179,198,517
165	6,911	506,755	1,126,305	25,052,982	184,036,752
170	6,925	513,680	1,163,361	26,216,343	188,840,553
175	6,657	520,337	1,151,736	27,368,079	193,610,379
180	6,713	527,050	1,195,541	28,563,620	198,347,360
185	6,453	533,503	1,181,255	29,744,875	203,051,025
190	6,396	539,899	1,202,525	30,947,400	207,722,260
195	6,132	546,031	1,183,561	32,130,961	212,362,051
200	6,658	552,689	1,319,310	33,450,271	216,971,071
225	29,688	582,377	6,319,730	39,770,001	239,551,101
250	28,598	610,975	6,807,192	46,577,193	261,406,693
275	26,518	637,493	6,972,238	53,549,431	282,569,431
300	25,374	662,867	7,304,192	60,853,623	303,081,423
325	23,682	686,549	7,415,381	68,269,004	322,985,804
350	22,412	708,961	7,572,515	75,841,519	342,307,719
375	21,772	730,733	7,901,397	83,742,916	361,077,916
400	20,424	751,157	7,928,822	91,671,738	379,326,138
425	18,533	769,690	7,652,746	99,324,484	397,080,759
450	17,650	787,340	7,729,950	107,054,434	414,383,284
475	16,093	803,433	7,450,219	114,504,653	431,263,153
500	16,293	819,726	7,944,875	122,449,528	447,733,028
525	15,014	834,740	7,704,283	130,153,811	463,819,136
550	14,169	848,909	7,623,027	137,776,838	479,538,038
575	13,804	862,713	7,770,457	145,547,295	494,905,795
600	13,186	875,899	7,757,820	153,305,115	509,941,515
625	12,159	888,058	7,453,110	160,758,225	524,655,100
650	12,562	900,620	8,016,020	168,774,245	539,061,695
675	11,180	911,800	7,411,613	176,185,858	553,168,633
700	11,150	922,950	7,670,762	183,856,620	566,996,720
725	10,921	933,871	7,789,083	191,645,703	580,551,653
750	10,343	944,214	7,632,148	199,277,851	593,837,101
775	10,035	954,249	7,654,849	206,932,700	606,866,800
800	10,245	964,494	8,078,414	215,011,114	619,650,314
825	9,194	973,688	7,473,954	222,485,068	632,184,193
850	9,359	983,047	7,843,331	230,328,399	644,487,499
875	8,668	991,715	7,480,045	237,808,444	656,564,194
900	9,110	1,000,825	8,087,525	245,895,969	668,417,169
925	8,400	1,009,225	7,671,322	253,567,291	680,055,191
950	8,120	1,017,345	7,616,233	261,183,524	691,484,124
975	8,239	1,025,584	7,931,725	269,115,249	702,706,524
1,000	7,846	1,033,430	7,755,862	276,871,111	713,734,111
1,100	29,406	1,062,836	30,880,481	307,751,592	755,954,292
1,200	26,872	1,089,708	30,919,225	338,670,817	795,372,817
1,300	24,038	1,113,746	30,063,367	368,734,184	832,245,284
1,400	22,474	1,136,220	30,353,755	399,087,939	866,790,139
1,500	20,461	1,156,681	29,675,587	428,763,526	899,181,526

KWH Step Report for GS1 G1D G1T G1V G1C
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
1,600	19,262	1,175,943	29,876,208	458,639,734	929,599,734
1,700	17,342	1,193,285	28,629,642	487,269,376	958,182,976
1,800	16,273	1,209,558	28,496,897	515,766,273	985,089,273
1,900	14,571	1,224,129	26,958,540	542,724,813	1,010,436,413
2,000	14,458	1,238,587	28,205,620	570,930,433	1,034,342,433
2,100	13,241	1,251,828	27,154,477	598,084,910	1,056,861,410
2,200	12,485	1,264,313	26,858,521	624,943,431	1,078,099,431
2,300	11,800	1,276,113	26,560,324	651,503,755	1,098,117,755
2,400	11,710	1,287,823	27,542,385	679,046,140	1,116,974,140
2,500	10,061	1,297,884	24,665,274	703,711,414	1,134,733,914
2,600	10,129	1,308,013	25,841,748	729,553,162	1,151,481,162
2,700	9,176	1,317,189	24,329,020	753,882,182	1,167,262,982
2,800	9,232	1,326,421	25,402,031	779,284,213	1,182,125,813
2,900	8,329	1,334,750	23,755,014	803,039,227	1,196,113,927
3,000	8,047	1,342,797	23,758,166	826,797,393	1,209,285,393
3,100	7,444	1,350,241	22,709,202	849,506,595	1,221,667,795
3,200	7,539	1,357,780	23,764,439	873,271,034	1,233,312,634
3,300	6,775	1,364,555	22,034,708	895,305,742	1,244,241,142
3,400	6,427	1,370,982	21,541,947	916,847,689	1,254,505,089
3,500	5,805	1,376,787	20,032,132	936,879,821	1,264,150,821
3,600	5,988	1,382,775	21,271,151	958,150,972	1,273,215,772
3,700	5,263	1,388,038	19,218,175	977,369,147	1,281,712,647
3,800	5,155	1,393,193	19,338,934	996,708,081	1,289,688,081
3,900	4,770	1,397,963	18,371,804	1,015,079,885	1,297,166,885
4,000	4,618	1,402,581	18,250,250	1,033,330,135	1,304,178,135
4,100	4,126	1,406,707	16,718,319	1,050,048,454	1,310,751,054
4,200	4,118	1,410,825	17,101,595	1,067,150,049	1,316,915,649
4,300	3,573	1,414,398	15,190,942	1,082,340,991	1,322,689,491
4,400	3,650	1,418,048	15,884,320	1,098,225,311	1,328,103,311
4,500	3,261	1,421,309	14,519,924	1,112,745,235	1,333,173,235
4,600	3,054	1,424,363	13,903,995	1,126,649,230	1,337,927,230
4,700	2,720	1,427,083	12,651,453	1,139,300,683	1,342,387,683
4,800	2,924	1,430,007	13,903,344	1,153,204,027	1,346,576,827
4,900	2,313	1,432,320	11,222,039	1,164,426,066	1,350,493,766
5,000	2,405	1,434,725	11,912,039	1,176,338,105	1,354,178,105
5,100	2,095	1,436,820	10,581,975	1,186,920,080	1,357,632,380
5,200	2,104	1,438,924	10,838,582	1,197,758,662	1,360,877,462
5,300	1,846	1,440,770	9,697,298	1,207,455,960	1,363,927,860
5,400	1,793	1,442,563	9,599,437	1,217,055,397	1,366,797,397
5,500	1,599	1,444,162	8,715,877	1,225,771,274	1,369,491,774
5,600	1,671	1,445,833	9,280,240	1,235,051,514	1,372,027,514
5,700	1,340	1,447,173	7,576,949	1,242,628,463	1,374,412,463
5,800	1,307	1,448,480	7,518,809	1,250,147,272	1,376,662,672
5,900	1,139	1,449,619	6,665,494	1,256,812,766	1,378,789,366
6,000	1,225	1,450,844	7,292,214	1,264,104,980	1,380,798,980
6,100	973	1,451,817	5,891,254	1,269,996,234	1,382,699,834
6,200	964	1,452,781	5,931,209	1,275,927,443	1,384,501,843
6,300	871	1,453,652	5,444,834	1,281,372,277	1,386,210,577
6,400	903	1,454,555	5,737,491	1,287,109,768	1,387,832,968

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
6,500	717	1,455,272	4,626,420	1,291,736,188	1,389,372,688
6,600	745	1,456,017	4,884,834	1,296,621,022	1,390,842,622
6,700	614	1,456,631	4,082,823	1,300,703,845	1,392,239,245
6,800	729	1,457,360	4,921,681	1,305,625,526	1,393,569,926
6,900	614	1,457,974	4,209,051	1,309,834,577	1,394,835,677
7,000	547	1,458,521	3,803,931	1,313,638,508	1,396,042,508
7,100	500	1,459,021	3,524,577	1,317,163,085	1,397,194,285
7,200	549	1,459,570	3,931,410	1,321,094,495	1,398,300,095
7,300	377	1,459,947	2,735,567	1,323,830,062	1,399,355,862
7,400	418	1,460,365	3,073,974	1,326,904,036	1,400,371,236
7,500	342	1,460,707	2,548,240	1,329,452,276	1,401,347,276
7,600	439	1,461,146	3,315,088	1,332,767,364	1,402,284,564
7,700	385	1,461,531	2,947,784	1,335,715,148	1,403,182,548
7,800	322	1,461,853	2,498,077	1,338,213,225	1,404,045,225
7,900	285	1,462,138	2,237,962	1,340,451,187	1,404,875,687
8,000	354	1,462,492	2,817,142	1,343,268,329	1,405,676,329
8,100	239	1,462,731	1,926,362	1,345,194,691	1,406,446,891
8,200	295	1,463,026	2,406,168	1,347,600,859	1,407,190,259
8,300	236	1,463,262	1,947,336	1,349,548,195	1,407,905,495
8,400	283	1,463,545	2,364,386	1,351,912,581	1,408,595,781
8,500	194	1,463,739	1,640,968	1,353,553,549	1,409,262,549
8,600	202	1,463,941	1,728,270	1,355,281,819	1,409,909,019
8,700	214	1,464,155	1,851,075	1,357,132,894	1,410,533,494
8,800	214	1,464,369	1,874,564	1,359,007,458	1,411,138,658
8,900	154	1,464,523	1,364,072	1,360,371,530	1,411,724,530
9,000	174	1,464,697	1,559,012	1,361,930,542	1,412,294,542
9,100	148	1,464,845	1,338,554	1,363,269,096	1,412,845,896
9,200	174	1,465,019	1,591,796	1,364,860,892	1,413,381,692
9,300	179	1,465,198	1,658,005	1,366,518,897	1,413,902,397
9,400	132	1,465,330	1,235,435	1,367,754,332	1,414,406,532
9,500	135	1,465,465	1,275,933	1,369,030,265	1,414,896,265
9,600	191	1,465,656	1,828,106	1,370,858,371	1,415,373,571
9,700	86	1,465,742	830,755	1,371,689,126	1,415,833,826
9,800	112	1,465,854	1,091,844	1,372,780,970	1,416,283,170
9,900	87	1,465,941	856,951	1,373,637,921	1,416,722,721
10,000	127	1,466,068	1,263,830	1,374,901,751	1,417,151,751
11,000	917	1,466,985	9,607,550	1,384,509,301	1,420,897,301
12,000	591	1,467,576	6,784,530	1,391,293,831	1,423,897,831
13,000	450	1,468,026	5,629,899	1,396,923,730	1,426,394,730
14,000	370	1,468,396	4,994,210	1,401,917,940	1,428,475,940
15,000	283	1,468,679	4,100,110	1,406,018,050	1,430,228,050
16,000	236	1,468,915	3,657,538	1,409,675,588	1,431,723,588
17,000	154	1,469,069	2,543,945	1,412,219,533	1,433,027,533
18,000	128	1,469,197	2,246,050	1,414,465,583	1,434,193,583
19,000	108	1,469,305	1,999,548	1,416,465,131	1,435,237,131
20,000	90	1,469,395	1,754,605	1,418,219,736	1,436,179,736
21,000	92	1,469,487	1,886,358	1,420,106,094	1,437,032,094
22,000	75	1,469,562	1,614,407	1,421,720,501	1,437,802,501
23,000	64	1,469,626	1,434,150	1,423,154,651	1,438,495,651

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
24,000	59	1,469,685	1,389,941	1,424,544,592	1,439,136,592
25,000	48	1,469,733	1,183,502	1,425,728,094	1,439,728,094
26,000	47	1,469,780	1,201,374	1,426,929,468	1,440,267,468
27,000	39	1,469,819	1,033,008	1,427,962,476	1,440,760,476
28,000	30	1,469,849	822,147	1,428,784,623	1,441,216,623
29,000	22	1,469,871	629,970	1,429,414,593	1,441,652,593
30,000	23	1,469,894	679,738	1,430,094,331	1,442,064,331
31,000	24	1,469,918	733,012	1,430,827,343	1,442,452,343
32,000	15	1,469,933	470,960	1,431,298,303	1,442,818,303
33,000	19	1,469,952	620,497	1,431,918,800	1,443,171,800
34,000	21	1,469,973	704,419	1,432,623,219	1,443,503,219
35,000	16	1,469,989	551,786	1,433,175,005	1,443,815,005
36,000	26	1,470,015	924,130	1,434,099,135	1,444,107,135
37,000	13	1,470,028	475,640	1,434,574,775	1,444,379,775
38,000	15	1,470,043	561,860	1,435,136,635	1,444,636,635
39,000	7	1,470,050	269,080	1,435,405,715	1,444,882,715
40,000	7	1,470,057	276,378	1,435,682,093	1,445,122,093
41,000	11	1,470,068	444,360	1,436,126,453	1,445,351,453
42,000	13	1,470,081	540,560	1,436,667,013	1,445,571,013
43,000	9	1,470,090	382,960	1,437,049,973	1,445,778,973
44,000	14	1,470,104	609,160	1,437,659,133	1,445,975,133
45,000	13	1,470,117	577,410	1,438,236,543	1,446,156,543
46,000	11	1,470,128	499,740	1,438,736,283	1,446,326,283
47,000	3	1,470,131	139,920	1,438,876,203	1,446,490,203
48,000	10	1,470,141	474,760	1,439,350,963	1,446,646,963
49,000	5	1,470,146	243,600	1,439,594,563	1,446,797,563
50,000	7	1,470,153	346,637	1,439,941,200	1,446,941,200
51,000	4	1,470,157	202,480	1,440,143,680	1,447,079,680
52,000	7	1,470,164	361,280	1,440,504,960	1,447,212,960
53,000	6	1,470,170	314,200	1,440,819,160	1,447,338,160
54,000	6	1,470,176	322,080	1,441,141,240	1,447,459,240
55,000	3	1,470,179	163,200	1,441,304,440	1,447,574,440
56,000	4	1,470,183	221,940	1,441,526,380	1,447,686,380
57,000	5	1,470,188	283,625	1,441,810,005	1,447,795,005
58,000	4	1,470,192	230,950	1,442,040,955	1,447,898,955
59,000	2	1,470,194	116,880	1,442,157,835	1,447,998,835
60,000	1	1,470,195	59,250	1,442,217,085	1,448,097,085
61,000	5	1,470,200	301,875	1,442,518,960	1,448,191,960
62,000	2	1,470,202	122,880	1,442,641,840	1,448,283,840
63,000	3	1,470,205	187,600	1,442,829,440	1,448,373,440
64,000	5	1,470,210	317,995	1,443,147,435	1,448,459,435
65,000	2	1,470,212	129,000	1,443,276,435	1,448,541,435
66,000	2	1,470,214	131,920	1,443,408,355	1,448,622,355
67,000	1	1,470,215	66,600	1,443,474,955	1,448,700,955
68,000	4	1,470,219	269,600	1,443,744,555	1,448,776,555
69,000	2	1,470,221	136,800	1,443,881,355	1,448,849,355
70,000	4	1,470,225	277,980	1,444,159,335	1,448,919,335
71,000	2	1,470,227	140,880	1,444,300,215	1,448,986,215
72,000	3	1,470,230	213,906	1,444,514,121	1,449,050,121

KWH Step Report for GSI GID G1T G1V G1C
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
73,000	1	1,470,231	72,600	1,444,586,721	1,449,112,721
74,000	2	1,470,233	147,360	1,444,734,081	1,449,174,081
75,000	6	1,470,239	447,461	1,445,181,542	1,449,231,542
76,000	4	1,470,243	303,000	1,445,484,542	1,449,284,542
77,000	4	1,470,247	307,200	1,445,791,742	1,449,333,742
78,000	2	1,470,249	155,200	1,445,946,942	1,449,378,942
79,000	2	1,470,251	156,880	1,446,103,822	1,449,421,822
80,000	2	1,470,253	160,000	1,446,263,822	1,449,463,822
82,000	4	1,470,257	326,400	1,446,590,222	1,449,542,222
83,000	1	1,470,258	82,560	1,446,672,782	1,449,577,782
84,000	2	1,470,260	167,600	1,446,840,382	1,449,612,382
85,000	2	1,470,262	169,400	1,447,009,782	1,449,644,782
86,000	3	1,470,265	256,640	1,447,266,422	1,449,674,422
87,000	1	1,470,266	86,400	1,447,352,822	1,449,701,822
88,000	2	1,470,268	175,520	1,447,528,342	1,449,728,342
89,000	2	1,470,270	177,320	1,447,705,662	1,449,752,662
91,000	1	1,470,271	90,903	1,447,796,565	1,449,798,565
92,000	1	1,470,272	91,200	1,447,887,765	1,449,819,765
93,000	1	1,470,273	92,800	1,447,980,565	1,449,840,565
94,000	1	1,470,274	93,333	1,448,073,898	1,449,859,898
95,000	2	1,470,276	188,880	1,448,262,778	1,449,877,778
96,000	2	1,470,278	191,360	1,448,454,138	1,449,894,138
98,000	1	1,470,279	97,800	1,448,551,938	1,449,923,938
100,000	1	1,470,280	99,800	1,448,651,738	1,449,951,738
110,000	5	1,470,285	526,720	1,449,178,458	1,450,058,458
120,000	1	1,470,286	119,520	1,449,297,978	1,450,137,978
150,000	1	1,470,287	142,200	1,449,440,178	1,450,340,178
160,000	1	1,470,288	160,000	1,449,600,178	1,450,400,178
170,000	3	1,470,291	492,200	1,450,092,378	1,450,432,378
190,000	1	1,470,292	190,000	1,450,282,378	1,450,472,378
206,000	1	1,470,293	206,000	1,450,488,378	1,450,488,378

KWH Step Report for GS3 G3T G3V G3C
 press pf15 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
0	816	816	0	0	0
1	1	817	1	1	240,418
3	1	818	3	4	721,252
5	4	822	20	24	1,202,084
6	3	825	18	42	1,442,496
7	3	828	21	63	1,682,905
8	2	830	16	79	1,923,311
10	3	833	30	109	2,404,119
11	1	834	11	120	2,644,520
13	1	835	13	133	3,125,320
14	2	837	28	161	3,365,719
16	2	839	32	193	3,846,513
18	1	840	18	211	4,327,303
19	1	841	19	230	4,567,697
20	1	842	20	250	4,808,090
22	1	843	22	272	5,288,874
24	2	845	48	320	5,769,656
30	6	851	170	490	7,211,980
35	6	857	195	685	8,413,880
40	6	863	233	918	9,615,758
45	5	868	216	1,134	10,817,604
50	5	873	249	1,383	12,019,433
55	4	877	218	1,601	13,221,236
60	12	889	699	2,300	14,423,000
65	3	892	192	2,492	15,624,722
70	3	895	206	2,698	16,826,428
75	6	901	438	3,136	18,028,111
80	14	915	1,099	4,235	19,229,755
85	1	916	82	4,317	20,431,347
90	4	920	351	4,668	21,632,928
95	5	925	469	5,137	22,834,492
100	8	933	781	5,918	24,036,018
105	3	936	312	6,230	25,237,520
110	4	940	432	6,662	26,439,002
115	5	945	569	7,231	27,640,466
120	21	966	2,501	9,732	28,841,892
125	6	972	738	10,470	30,043,220
130	6	978	772	11,242	31,244,522
135	2	980	266	11,508	32,445,798
140	3	983	411	11,919	33,647,059
145	4	987	574	12,493	34,848,308
150	4	991	596	13,089	36,049,539
155	5	996	764	13,853	37,250,743
160	17	1,013	2,713	16,566	38,451,926
165	4	1,017	647	17,213	39,653,018
170	3	1,020	505	17,718	40,854,098
175	8	1,028	1,382	19,100	42,055,150
180	7	1,035	1,257	20,357	43,256,177
185	4	1,039	732	21,089	44,457,164

KWH Step Report for GS3 G3T G3V G3C
 press pfl5 to continue

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
190	8	1,047	1,512	22,601	45,658,131
195	1	1,048	193	22,794	46,859,064
200	18	1,066	3,596	26,390	48,059,990
225	21	1,087	4,486	30,876	54,063,951
250	56	1,143	13,387	44,263	60,067,013
275	27	1,170	7,140	51,403	66,069,003
300	38	1,208	10,953	62,356	72,070,156
325	46	1,254	14,570	76,926	78,070,426
350	15	1,269	5,082	82,008	84,069,758
375	38	1,307	13,803	95,811	90,068,436
400	68	1,375	26,855	122,666	96,066,266
425	17	1,392	7,031	129,697	102,062,547
450	22	1,414	9,639	139,336	108,058,336
475	27	1,441	12,475	151,811	114,053,486
500	81	1,522	39,155	190,966	120,046,966
525	35	1,557	18,084	209,050	126,039,475
550	23	1,580	12,327	221,377	132,031,077
575	51	1,631	28,693	250,070	138,021,795
600	47	1,678	27,947	278,017	144,011,617
625	20	1,698	12,294	290,311	150,000,311
650	47	1,745	30,029	320,340	155,988,190
675	21	1,766	13,958	334,298	161,975,198
700	30	1,796	20,659	354,957	167,961,557
725	57	1,853	40,902	395,859	173,947,084
750	17	1,870	12,536	408,395	179,931,395
775	24	1,894	18,291	426,686	185,915,186
800	68	1,962	54,109	480,795	191,898,395
825	17	1,979	13,883	494,678	197,880,053
850	47	2,026	39,469	534,147	203,860,947
875	14	2,040	12,148	546,295	209,841,045
900	65	2,105	57,601	603,896	215,819,996
925	23	2,128	21,011	624,907	221,797,957
950	18	2,146	16,918	641,825	227,775,425
975	64	2,210	61,532	703,357	233,751,757
1,000	37	2,247	36,802	740,159	239,727,159
1,100	132	2,379	139,588	879,747	263,620,247
1,200	193	2,572	224,310	1,104,057	287,498,457
1,300	146	2,718	183,844	1,287,901	311,358,701
1,400	197	2,915	266,576	1,554,477	335,201,077
1,500	177	3,092	257,198	1,811,675	359,024,675
1,600	230	3,322	359,304	2,170,979	382,830,179
1,700	168	3,490	278,959	2,449,938	406,614,738
1,800	229	3,719	403,882	2,853,820	430,380,820
1,900	140	3,859	259,265	3,113,085	454,125,585
2,000	255	4,114	498,608	3,611,693	477,851,693
2,100	245	4,359	505,068	4,116,761	501,554,261
2,200	220	4,579	474,999	4,591,760	525,232,760
2,300	233	4,812	525,574	5,117,334	548,887,934
2,400	341	5,153	806,092	5,923,426	572,517,826

KWH Step Report for GS3 G3T G3V G3C
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
2,500	212	5,365	520,947	6,444,373	596,116,873
2,600	325	5,690	830,131	7,274,504	619,688,904
2,700	299	5,989	793,211	8,067,715	643,229,215
2,800	383	6,372	1,056,811	9,124,526	666,738,126
2,900	359	6,731	1,026,857	10,151,383	690,210,083
3,000	416	7,147	1,231,466	11,382,849	713,643,849
3,100	366	7,513	1,117,774	12,500,623	737,035,723
3,200	547	8,060	1,726,139	14,226,762	760,383,562
3,300	548	8,608	1,784,198	16,010,960	783,676,760
3,400	613	9,221	2,058,149	18,069,109	806,913,309
3,500	594	9,815	2,051,676	20,120,785	830,087,285
3,600	883	10,698	3,143,009	23,263,794	853,193,394
3,700	739	11,437	2,703,489	25,967,283	876,216,183
3,800	868	12,305	3,257,810	29,225,093	899,155,293
3,900	884	13,189	3,406,532	32,631,625	922,007,125
4,000	1,114	14,303	4,409,895	37,041,520	944,765,520
4,100	1,046	15,349	4,241,408	41,282,928	967,411,428
4,200	1,165	16,514	4,843,370	46,126,298	989,950,298
4,300	1,137	17,651	4,835,472	50,961,770	1,012,368,670
4,400	1,395	19,046	6,074,402	57,036,172	1,034,663,372
4,500	1,357	20,403	6,047,862	63,084,034	1,056,823,534
4,600	1,398	21,801	6,368,388	69,452,422	1,078,844,222
4,700	1,455	23,256	6,770,474	76,222,896	1,100,719,496
4,800	1,741	24,997	8,285,631	84,508,527	1,122,446,127
4,900	1,517	26,514	7,365,643	91,874,170	1,144,002,170
5,000	1,676	28,190	8,302,300	100,176,470	1,165,396,470
5,100	1,569	29,759	7,927,038	108,103,508	1,186,626,008
5,200	1,865	31,624	9,614,638	117,718,146	1,207,690,146
5,300	1,698	33,322	8,924,227	126,642,373	1,228,575,973
5,400	1,833	35,155	9,819,620	136,461,993	1,249,288,593
5,500	1,686	36,841	9,193,581	145,655,574	1,269,817,074
5,600	2,047	38,888	11,374,060	157,029,634	1,290,167,234
5,700	1,689	40,577	9,553,952	166,583,586	1,310,328,486
5,800	1,846	42,423	10,624,161	177,207,747	1,330,311,547
5,900	1,652	44,075	9,669,739	186,877,486	1,350,115,586
6,000	2,058	46,133	12,258,164	199,135,650	1,369,741,650
6,100	1,744	47,877	10,563,379	209,699,029	1,389,176,729
6,200	1,880	49,757	11,571,661	221,270,690	1,408,428,090
6,300	1,740	51,497	10,880,449	232,151,139	1,427,494,239
6,400	1,976	53,473	12,560,186	244,711,325	1,446,381,725
6,500	1,555	55,028	10,041,003	254,752,328	1,465,091,328
6,600	1,807	56,835	11,849,554	266,601,882	1,483,635,282
6,700	1,522	58,357	10,124,634	276,726,516	1,502,002,416
6,800	2,025	60,382	13,677,093	290,403,609	1,520,197,209
6,900	1,542	61,924	10,573,226	300,976,835	1,538,215,835
7,000	1,687	63,611	11,733,998	312,710,833	1,556,071,833
7,100	1,574	65,185	11,102,919	323,813,752	1,573,761,652
7,200	1,922	67,107	13,758,777	337,572,529	1,591,286,929
7,300	1,424	68,531	10,333,807	347,906,336	1,608,638,236

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
7,400	1,626	70,157	11,956,546	359,862,882	1,625,832,682
7,500	1,479	71,636	11,021,598	370,884,480	1,642,869,480
7,600	1,638	73,274	12,375,315	383,259,795	1,659,755,795
7,700	1,473	74,747	11,281,392	394,541,187	1,676,491,087
7,800	1,597	76,344	12,389,936	406,931,123	1,693,073,123
7,900	1,376	77,720	10,803,872	417,734,995	1,709,495,595
8,000	1,633	79,353	12,994,002	430,728,997	1,725,776,997
8,100	1,319	80,672	10,628,968	441,357,965	1,741,910,165
8,200	1,403	82,075	11,440,724	452,798,689	1,757,902,489
8,300	1,230	83,305	10,151,304	462,949,993	1,773,760,693
8,400	1,685	84,990	14,084,670	477,034,663	1,789,484,263
8,500	1,194	86,184	10,098,974	487,133,637	1,805,058,637
8,600	1,332	87,516	11,393,986	498,527,623	1,820,502,423
8,700	1,229	88,745	10,633,719	509,161,342	1,835,815,642
8,800	1,471	90,216	12,883,156	522,044,498	1,851,002,898
8,900	1,129	91,345	10,001,308	532,045,806	1,866,057,906
9,000	1,403	92,748	12,571,279	544,617,085	1,880,991,085
9,100	1,057	93,805	9,568,324	554,185,409	1,895,789,309
9,200	1,505	95,310	13,779,274	567,964,683	1,910,465,483
9,300	1,186	96,496	10,981,132	578,945,815	1,925,009,215
9,400	1,179	97,675	11,030,888	589,976,703	1,939,431,303
9,500	1,043	98,718	9,857,710	599,834,413	1,953,736,413
9,600	1,412	100,130	13,500,224	613,334,637	1,967,933,037
9,700	944	101,074	9,117,539	622,452,176	1,982,004,176
9,800	1,138	102,212	11,102,352	633,554,528	1,995,970,128
9,900	964	103,176	9,498,854	643,053,382	2,009,827,582
10,000	1,280	104,456	12,742,551	655,795,933	2,023,575,933
11,000	9,647	114,103	101,250,907	757,046,840	2,155,487,840
12,000	8,580	122,683	98,741,343	855,788,183	2,278,400,183
13,000	7,123	129,806	89,144,658	944,932,841	2,393,496,841
14,000	6,633	136,439	89,579,562	1,034,512,403	2,501,642,403
15,000	5,976	142,415	86,694,993	1,121,207,396	2,603,492,396
16,000	5,503	147,918	85,307,247	1,206,514,643	2,699,570,643
17,000	5,014	152,932	82,795,199	1,289,309,842	2,790,443,842
18,000	4,465	157,397	78,191,505	1,367,501,347	2,876,567,347
19,000	3,938	161,335	72,926,466	1,440,427,813	2,958,508,813
20,000	3,679	165,014	71,773,527	1,512,201,340	3,036,601,340
21,000	3,301	168,315	67,750,568	1,579,951,908	3,111,250,908
22,000	3,102	171,417	66,744,198	1,646,696,106	3,182,670,106
23,000	2,772	174,189	62,371,788	1,709,067,894	3,251,102,894
24,000	2,667	176,856	62,737,762	1,771,805,656	3,316,877,656
25,000	2,298	179,154	56,367,303	1,828,172,959	3,380,172,959
26,000	2,216	181,370	56,517,903	1,884,690,862	3,441,154,862
27,000	2,056	183,426	54,516,614	1,939,207,476	3,500,023,476
28,000	1,858	185,284	51,122,712	1,990,330,188	3,556,930,188
29,000	1,702	186,986	48,532,053	2,038,862,241	3,612,054,241
30,000	1,646	188,632	48,606,227	2,087,468,468	3,665,528,468
31,000	1,482	190,114	45,233,869	2,132,702,337	3,717,422,337
32,000	1,511	191,625	47,634,526	2,180,336,863	3,767,824,863

KWH Step Report for GS3 G3T G3V G3C
 press pfl5 to continue

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
33,000	1,425	193,050	46,376,201	2,226,713,064	3,816,785,064
34,000	1,311	194,361	43,965,259	2,270,678,323	3,864,360,323
35,000	1,131	195,492	39,036,331	2,309,714,654	3,910,684,654
36,000	1,300	196,792	46,187,068	2,355,901,722	3,955,813,722
37,000	1,106	197,898	40,438,168	2,396,339,890	3,999,771,890
38,000	1,115	199,013	41,851,066	2,438,190,956	4,042,588,956
39,000	1,045	200,058	40,260,579	2,478,451,535	4,084,315,535
40,000	962	201,020	38,048,187	2,516,499,722	4,125,059,722
41,000	886	201,906	35,919,339	2,552,419,061	4,164,867,061
42,000	961	202,867	39,933,208	2,592,352,269	4,203,766,269
43,000	815	203,682	34,673,439	2,627,025,708	4,241,761,708
44,000	813	204,495	35,393,367	2,662,419,075	4,278,935,075
45,000	740	205,235	32,959,854	2,695,378,929	4,315,333,929
46,000	764	205,999	34,780,542	2,730,159,471	4,350,969,471
47,000	741	206,740	34,460,290	2,764,619,761	4,385,837,761
48,000	770	207,510	36,607,208	2,801,226,969	4,419,978,969
49,000	666	208,176	32,344,336	2,833,571,305	4,453,413,305
50,000	646	208,822	32,002,065	2,865,573,370	4,486,173,370
51,000	584	209,406	29,501,900	2,895,075,270	4,518,303,270
52,000	586	209,992	30,203,934	2,925,279,204	4,549,863,204
53,000	538	210,530	28,262,195	2,953,541,399	4,580,853,399
54,000	624	211,154	33,412,776	2,986,954,175	4,611,274,175
55,000	473	211,627	25,815,115	3,012,769,290	4,641,154,290
56,000	525	212,152	29,157,007	3,041,926,297	4,670,518,297
57,000	503	212,655	28,449,706	3,070,376,003	4,699,379,003
58,000	448	213,103	25,785,630	3,096,161,633	4,727,759,633
59,000	427	213,530	24,990,937	3,121,152,570	4,755,688,570
60,000	570	214,100	33,956,377	3,155,108,947	4,783,148,947
61,000	386	214,486	23,380,556	3,178,489,503	4,810,117,503
62,000	416	214,902	25,591,562	3,204,081,065	4,836,665,065
63,000	432	215,334	27,018,473	3,231,099,538	4,862,799,538
64,000	413	215,747	26,238,046	3,257,337,584	4,888,505,584
65,000	366	216,113	23,611,409	3,280,948,993	4,913,813,993
66,000	417	216,530	27,335,909	3,308,284,902	4,938,748,902
67,000	339	216,869	22,574,196	3,330,859,098	4,963,314,098
68,000	373	217,242	25,198,599	3,356,057,697	4,987,513,697
69,000	379	217,621	25,982,555	3,382,040,252	5,011,337,252
70,000	335	217,956	23,302,210	3,405,342,462	5,034,802,462
71,000	333	218,289	23,478,426	3,428,820,888	5,057,915,888
72,000	367	218,656	26,269,416	3,455,090,304	5,080,706,304
73,000	294	218,950	21,341,077	3,476,431,381	5,103,163,381
74,000	295	219,245	21,700,752	3,498,132,133	5,125,318,133
75,000	337	219,582	25,134,510	3,523,266,643	5,147,166,643
76,000	305	219,887	23,044,514	3,546,311,157	5,168,683,157
77,000	266	220,153	20,359,201	3,566,670,358	5,189,907,358
78,000	305	220,458	23,654,932	3,590,325,290	5,210,853,290
79,000	256	220,714	20,114,114	3,610,439,404	5,231,519,404
80,000	266	220,980	21,153,720	3,631,593,124	5,251,913,124
81,000	249	221,229	20,071,665	3,651,664,789	5,272,069,789

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
82,000	278	221,507	22,675,487	3,674,340,276	5,291,954,276
83,000	262	221,769	21,618,999	3,695,959,275	5,311,554,275
84,000	291	222,060	24,320,687	3,720,279,962	5,330,895,962
85,000	220	222,280	18,619,823	3,738,899,785	5,349,989,785
86,000	261	222,541	22,328,787	3,761,228,572	5,368,826,572
87,000	253	222,794	21,905,602	3,783,134,174	5,387,414,174
88,000	246	223,040	21,546,158	3,804,680,332	5,405,752,332
89,000	200	223,240	17,705,853	3,822,386,185	5,423,852,185
90,000	234	223,474	20,964,073	3,843,350,258	5,441,750,258
91,000	211	223,685	19,111,379	3,862,461,637	5,459,420,637
92,000	226	223,911	20,696,648	3,883,158,285	5,476,874,285
93,000	230	224,141	21,296,267	3,904,454,552	5,494,103,552
94,000	205	224,346	19,179,864	3,923,634,416	5,511,106,416
95,000	206	224,552	19,467,052	3,943,101,468	5,527,891,468
96,000	216	224,768	20,647,176	3,963,748,644	5,544,484,644
97,000	183	224,951	17,683,435	3,981,432,079	5,560,883,079
98,000	203	225,154	19,798,739	4,001,230,818	5,577,070,818
99,000	202	225,356	19,917,642	4,021,148,460	5,593,070,460
100,000	182	225,538	18,122,443	4,039,270,903	5,608,870,903
110,000	1,650	227,188	173,073,693	4,212,344,596	5,757,404,596
120,000	1,366	228,554	156,963,065	4,369,307,661	5,890,907,661
130,000	1,197	229,751	149,598,572	4,518,906,233	6,011,696,233
140,000	1,157	230,908	156,356,197	4,675,262,430	6,120,902,430
150,000	1,099	232,007	159,469,157	4,834,731,587	6,218,781,587
160,000	956	232,963	148,236,124	4,982,967,711	6,306,327,711
170,000	864	233,827	142,570,701	5,125,538,412	6,384,728,412
180,000	801	234,628	140,400,550	5,265,938,962	6,455,018,962
190,000	686	235,314	126,892,001	5,392,830,963	6,517,630,963
200,000	620	235,934	120,933,834	5,513,764,797	6,573,764,797
210,000	557	236,491	114,291,720	5,628,056,517	6,624,086,517
220,000	473	236,964	101,710,971	5,729,767,488	6,669,167,488
230,000	436	237,400	98,143,590	5,827,911,078	6,709,731,078
240,000	359	237,759	84,427,880	5,912,338,958	6,746,338,958
250,000	315	238,074	77,239,547	5,989,578,505	6,779,578,505
260,000	264	238,338	67,328,157	6,056,906,662	6,809,866,662
270,000	256	238,594	67,878,979	6,124,785,641	6,837,585,641
280,000	214	238,808	58,845,139	6,183,630,780	6,862,910,780
290,000	193	239,001	55,007,433	6,238,638,213	6,886,208,213
300,000	181	239,182	53,493,949	6,292,132,162	6,907,732,162
310,000	151	239,333	46,035,329	6,338,167,491	6,927,477,491
320,000	134	239,467	42,227,350	6,380,394,841	6,945,834,841
330,000	151	239,618	49,158,788	6,429,553,629	6,962,833,629
340,000	127	239,745	42,646,820	6,472,200,449	6,978,460,449
350,000	108	239,853	37,314,576	6,509,515,025	6,992,865,025
360,000	104	239,957	36,916,990	6,546,432,015	7,006,152,015
370,000	82	240,039	29,946,326	6,576,378,341	7,018,528,341
380,000	79	240,118	29,628,755	6,606,007,096	7,030,087,096
390,000	90	240,208	34,633,497	6,640,640,593	7,040,780,593
400,000	61	240,269	24,092,704	6,664,733,297	7,050,733,297

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
410,000	55	240,324	22,310,744	6,687,044,041	7,060,144,041
420,000	60	240,384	24,901,350	6,711,945,391	7,068,945,391
430,000	64	240,448	27,235,189	6,739,180,580	7,077,160,580
440,000	63	240,511	27,409,530	6,766,590,110	7,084,710,110
450,000	50	240,561	22,263,400	6,788,853,510	7,091,703,510
460,000	43	240,604	19,583,505	6,808,437,015	7,098,237,015
470,000	38	240,642	17,664,295	6,826,101,310	7,104,341,310
480,000	40	240,682	19,017,221	6,845,118,531	7,110,078,531
490,000	33	240,715	15,987,500	6,861,106,031	7,115,416,031
500,000	40	240,755	19,813,715	6,880,919,746	7,120,419,746
510,000	31	240,786	15,675,177	6,896,594,923	7,125,074,923
520,000	25	240,811	12,866,286	6,909,461,209	7,129,421,209
530,000	39	240,850	20,503,310	6,929,964,519	7,133,484,519
540,000	20	240,870	10,703,590	6,940,668,109	7,137,228,109
550,000	16	240,886	8,717,620	6,949,385,729	7,140,785,729
560,000	19	240,905	10,556,400	6,959,942,129	7,144,182,129
570,000	19	240,924	10,726,400	6,970,668,529	7,147,368,529
580,000	16	240,940	9,205,000	6,979,873,529	7,150,393,529
590,000	27	240,967	15,789,590	6,995,663,119	7,153,193,119
600,000	12	240,979	7,151,750	7,002,814,869	7,155,814,869
610,000	17	240,996	10,294,650	7,013,109,519	7,158,289,519
620,000	16	241,012	9,865,750	7,022,975,269	7,160,615,269
630,000	9	241,021	5,651,000	7,028,626,269	7,162,816,269
640,000	15	241,036	9,539,080	7,038,165,349	7,164,885,349
650,000	5	241,041	3,215,650	7,041,380,999	7,166,830,999
660,000	5	241,046	3,276,380	7,044,657,379	7,168,737,379
670,000	16	241,062	10,664,089	7,055,321,468	7,170,561,468
680,000	7	241,069	4,719,250	7,060,040,718	7,172,240,718
690,000	7	241,076	4,792,800	7,064,833,518	7,173,853,518
700,000	10	241,086	6,965,700	7,071,799,218	7,175,399,218
710,000	9	241,095	6,347,000	7,078,146,218	7,176,836,218
720,000	6	241,101	4,302,000	7,082,448,218	7,178,208,218
730,000	7	241,108	5,079,700	7,087,527,918	7,179,507,918
740,000	4	241,112	2,941,500	7,090,469,418	7,180,749,418
750,000	9	241,121	6,707,723	7,097,177,141	7,181,927,141
760,000	3	241,124	2,259,500	7,099,436,641	7,183,036,641
770,000	4	241,128	3,070,500	7,102,507,141	7,184,127,141
780,000	8	241,136	6,219,000	7,108,726,141	7,185,166,141
790,000	3	241,139	2,360,005	7,111,086,146	7,186,136,146
800,000	3	241,142	2,383,500	7,113,469,646	7,187,069,646
830,000	3	241,145	2,482,000	7,115,951,646	7,189,821,646
840,000	3	241,148	2,507,900	7,118,459,546	7,190,699,546
850,000	5	241,153	4,225,000	7,122,684,546	7,191,534,546
860,000	1	241,154	850,500	7,123,535,046	7,192,335,046
870,000	6	241,160	5,183,300	7,128,718,346	7,193,098,346
880,000	4	241,164	3,493,450	7,132,211,796	7,193,811,796
890,000	3	241,167	2,660,500	7,134,872,296	7,194,502,296
900,000	1	241,168	897,000	7,135,769,296	7,195,169,296
930,000	3	241,171	2,780,750	7,138,550,046	7,197,140,046

KWH Step Report for GS3 G3T G3V G3C
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
940,000	2	241,173	1,871,250	7,140,421,296	7,197,761,296
950,000	3	241,176	2,832,150	7,143,253,446	7,198,353,446
970,000	5	241,181	4,820,400	7,148,073,846	7,199,483,846
980,000	1	241,182	974,400	7,149,048,246	7,200,008,246
990,000	1	241,183	990,000	7,150,038,246	7,200,528,246
1,000,000	3	241,186	2,983,500	7,153,021,746	7,201,021,746
1,100,000	9	241,195	9,379,650	7,162,401,396	7,205,301,396
1,200,000	6	241,201	6,855,000	7,169,256,396	7,208,856,396
1,300,000	8	241,209	10,098,600	7,179,354,996	7,211,854,996
1,400,000	4	241,213	5,370,000	7,184,724,996	7,214,124,996
1,500,000	6	241,219	8,750,550	7,193,475,546	7,215,975,546
1,600,000	4	241,223	6,196,000	7,199,671,546	7,217,271,546
1,700,000	6	241,229	9,841,000	7,209,512,546	7,218,012,546
1,800,000	4	241,233	6,964,500	7,216,477,046	7,218,277,046
1,846,000	1	241,234	1,846,000	7,218,323,046	7,218,323,046

KWH Step Report for LP4 L4T L4C
 press pfl5 to continue

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
0	99	99	0	0	0
225	1	100	214	214	2,204,989
300	4	104	1,200	1,414	2,939,914
475	1	105	461	1,875	4,654,025
900	7	112	6,300	8,175	8,816,475
1,000	2	114	2,000	10,175	9,795,175
1,200	7	121	8,400	18,575	11,752,175
1,400	1	122	1,320	19,895	13,707,695
1,500	3	125	4,440	24,335	14,685,335
1,700	3	128	4,860	29,195	16,639,895
1,800	4	132	7,200	36,395	17,616,995
2,000	2	134	4,000	40,395	19,570,395
2,100	1	135	2,100	42,495	20,546,895
2,200	1	136	2,160	44,655	21,523,255
2,400	12	148	28,740	73,395	23,475,795
2,600	1	149	2,520	75,915	25,425,915
2,700	10	159	27,000	102,915	26,400,915
2,900	1	160	2,900	105,815	28,348,915
3,000	12	172	36,000	141,815	29,322,815
3,200	2	174	6,400	148,215	31,268,215
3,300	1	175	3,253	151,468	32,240,668
3,600	12	187	43,069	194,537	35,157,737
3,700	1	188	3,700	198,237	36,128,937
3,800	2	190	7,530	205,767	37,099,967
3,900	3	193	11,700	217,467	38,070,867
4,000	3	196	11,960	229,427	39,041,427
4,100	1	197	4,100	233,527	40,011,727
4,200	1	198	4,186	237,713	40,981,913
4,400	2	200	8,640	246,353	42,921,953
4,500	7	207	31,500	277,853	43,891,853
4,600	3	210	13,688	291,541	44,860,941
4,700	3	213	14,020	305,561	45,829,761
4,800	6	219	28,800	334,361	46,798,361
4,900	1	220	4,860	339,221	47,766,321
5,100	2	222	10,140	349,361	49,702,061
5,200	1	223	5,200	354,561	50,669,761
5,300	2	225	10,500	365,061	51,637,261
5,400	12	237	64,800	429,861	52,604,661
5,500	3	240	16,500	446,361	53,570,861
5,600	3	243	16,741	463,102	54,536,702
5,700	5	248	28,500	491,602	55,502,302
5,800	1	249	5,720	497,322	56,467,322
5,900	2	251	11,697	509,019	57,432,219
6,000	13	264	77,900	586,919	58,396,919
6,300	7	271	44,100	631,019	61,287,419
6,400	2	273	12,710	643,729	62,250,129
6,500	2	275	12,920	656,649	63,212,649
6,600	6	281	39,510	696,159	64,174,959
6,700	2	283	13,320	709,479	65,136,679

KWH Step Report for LP4 L4T L4C
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
6,800	1	284	6,800	716,279	66,098,279
6,900	1	285	6,840	723,119	67,059,719
7,000	6	291	41,977	765,096	68,021,096
7,100	1	292	7,020	772,116	68,981,816
7,200	13	305	93,600	865,716	69,942,516
7,300	1	306	7,250	872,966	70,901,866
7,400	1	307	7,380	880,346	71,861,146
7,500	5	312	37,380	917,726	72,820,226
7,600	1	313	7,560	925,286	73,778,886
7,700	2	315	15,290	940,576	74,737,376
7,800	9	324	70,090	1,010,666	75,695,666
8,000	7	331	55,712	1,066,378	77,610,378
8,100	9	340	72,900	1,139,278	78,567,178
8,200	1	341	8,160	1,147,438	79,523,038
8,300	3	344	24,840	1,172,278	80,478,778
8,400	5	349	42,000	1,214,278	81,434,278
8,500	2	351	16,878	1,231,156	82,389,156
8,600	1	352	8,520	1,239,676	83,343,876
8,700	5	357	43,320	1,282,996	84,298,396
9,000	12	369	108,000	1,390,996	87,160,996
9,200	3	372	27,540	1,418,536	89,066,936
9,300	2	374	18,540	1,437,076	90,019,576
9,400	4	378	37,516	1,474,592	90,971,992
9,600	8	386	76,740	1,551,332	92,876,132
9,800	2	388	19,440	1,570,772	94,778,572
9,900	9	397	89,100	1,659,872	95,729,672
10,000	3	400	30,000	1,689,872	96,679,872
11,000	40	440	424,340	2,114,212	106,163,212
12,000	47	487	545,094	2,659,306	115,603,306
13,000	32	519	401,730	3,061,036	125,001,036
14,000	57	576	771,275	3,832,311	134,354,311
15,000	48	624	700,975	4,533,286	143,658,286
16,000	39	663	605,468	5,138,754	152,914,754
17,000	49	712	809,080	5,947,834	162,126,834
18,000	52	764	921,212	6,869,046	171,299,046
19,000	17	781	317,060	7,186,106	180,428,106
20,000	41	822	799,069	7,985,175	189,525,175
21,000	36	858	741,540	8,726,715	198,587,715
22,000	30	888	648,320	9,375,035	207,617,035
23,000	39	927	879,657	10,254,692	216,610,692
24,000	53	980	1,251,311	11,506,003	225,562,003
25,000	32	1,012	784,238	12,290,241	234,465,241
26,000	55	1,067	1,397,682	13,687,923	243,319,923
27,000	36	1,103	959,267	14,647,190	252,139,190
28,000	23	1,126	635,820	15,283,010	260,927,010
29,000	38	1,164	1,087,741	16,370,751	269,685,751
30,000	22	1,186	653,670	17,024,421	278,414,421
31,000	27	1,213	825,080	17,849,501	287,115,501
32,000	28	1,241	884,140	18,733,641	295,789,641

KWH Step Report for LP4 L4T L4C
 press pf15 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
33,000	33	1,274	1,073,580	19,807,221	304,432,221
34,000	16	1,290	535,920	20,343,141	313,049,141
35,000	30	1,320	1,032,260	21,375,401	321,640,401
36,000	32	1,352	1,144,203	22,519,604	330,211,604
37,000	24	1,376	878,438	23,398,042	338,749,042
38,000	27	1,403	1,012,462	24,410,504	347,258,504
39,000	29	1,432	1,119,014	25,529,518	355,742,518
40,000	22	1,454	871,651	26,401,169	364,201,169
41,000	24	1,478	974,880	27,376,049	372,637,049
42,000	27	1,505	1,120,658	28,496,707	381,044,707
43,000	20	1,525	848,350	29,345,057	389,427,057
44,000	27	1,552	1,174,040	30,519,097	397,787,097
45,000	41	1,593	1,829,340	32,348,437	406,118,437
46,000	24	1,617	1,094,380	33,442,817	414,414,817
47,000	30	1,647	1,396,106	34,838,923	422,682,923
48,000	31	1,678	1,480,768	36,319,691	430,927,691
49,000	12	1,690	584,730	36,904,421	439,145,421
50,000	16	1,706	790,615	37,695,036	447,345,036
51,000	32	1,738	1,620,540	39,315,576	455,526,576
52,000	21	1,759	1,083,660	40,399,236	463,679,236
53,000	22	1,781	1,156,520	41,555,756	471,809,756
54,000	34	1,815	1,829,040	43,384,796	479,920,796
55,000	19	1,834	1,037,150	44,421,946	487,996,946
56,000	30	1,864	1,666,261	46,088,207	496,048,207
57,000	26	1,890	1,470,780	47,558,987	504,071,987
58,000	26	1,916	1,499,471	49,058,458	512,072,458
59,000	22	1,938	1,287,900	50,346,358	520,045,358
60,000	27	1,965	1,609,840	51,956,198	527,996,198
61,000	11	1,976	666,940	52,623,138	535,926,138
62,000	25	2,001	1,534,120	54,157,258	543,833,258
63,000	29	2,030	1,814,460	55,971,718	551,718,718
64,000	24	2,054	1,528,460	57,500,178	559,580,178
65,000	39	2,093	2,521,180	60,021,358	567,411,358
66,000	35	2,128	2,303,940	62,325,298	575,211,298
67,000	13	2,141	866,480	63,191,778	582,977,778
68,000	27	2,168	1,823,440	65,015,218	590,723,218
69,000	32	2,200	2,190,129	67,205,347	598,436,347
70,000	21	2,221	1,460,054	68,665,401	606,125,401
71,000	37	2,258	2,608,320	71,273,721	613,784,721
72,000	42	2,300	3,012,840	74,286,561	621,414,561
73,000	16	2,316	1,159,892	75,446,453	629,005,453
74,000	34	2,350	2,503,240	77,949,693	636,575,693
75,000	22	2,372	1,642,082	79,591,775	644,116,775
76,000	23	2,395	1,739,184	81,330,959	651,634,959
77,000	23	2,418	1,759,680	83,090,639	659,127,639
78,000	19	2,437	1,475,385	84,566,024	666,602,024
79,000	8	2,445	628,680	85,194,704	674,060,704
80,000	25	2,470	1,984,980	87,179,684	681,499,684
81,000	23	2,493	1,853,100	89,032,784	688,918,784

KWH Step Report for LP4 L4T L4C
 press pf15 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
82,000	16	2,509	1,305,300	90,338,084	696,318,084
83,000	18	2,527	1,486,600	91,824,684	703,700,684
84,000	18	2,545	1,505,580	93,330,264	711,066,264
85,000	12	2,557	1,014,360	94,344,624	718,414,624
86,000	25	2,582	2,135,027	96,479,651	725,741,651
87,000	21	2,603	1,816,350	98,296,001	733,048,001
88,000	14	2,617	1,225,905	99,521,906	740,337,906
89,000	16	2,633	1,415,789	100,937,695	747,611,695
90,000	18	2,651	1,615,157	102,552,852	754,872,852
91,000	8	2,659	725,400	103,278,252	762,118,252
92,000	15	2,674	1,372,794	104,651,046	769,351,046
93,000	18	2,692	1,666,260	106,317,306	776,568,306
94,000	13	2,705	1,217,100	107,534,406	783,770,406
95,000	14	2,719	1,322,400	108,856,806	790,956,806
96,000	14	2,733	1,338,000	110,194,806	798,130,806
97,000	9	2,742	867,800	111,062,606	805,291,606
98,000	19	2,761	1,850,200	112,912,806	812,436,806
99,000	19	2,780	1,876,500	114,789,306	819,570,306
100,000	9	2,789	896,400	115,685,706	826,685,706
110,000	164	2,953	17,223,909	132,909,615	896,969,615
120,000	154	3,107	17,747,183	150,656,798	965,696,798
130,000	152	3,259	18,997,491	169,654,289	1,032,854,289
140,000	171	3,430	23,064,978	192,719,267	1,098,379,267
150,000	161	3,591	23,295,720	216,014,987	1,162,214,987
160,000	161	3,752	24,950,291	240,965,278	1,224,485,278
170,000	152	3,904	25,031,260	265,996,538	1,285,146,538
180,000	147	4,051	25,714,974	291,711,512	1,344,351,512
190,000	145	4,196	26,899,537	318,611,049	1,402,181,049
200,000	146	4,342	28,456,963	347,068,012	1,458,468,012
210,000	133	4,475	27,319,771	374,387,783	1,513,427,783
220,000	110	4,585	23,714,400	398,102,183	1,567,182,183
230,000	124	4,709	27,904,548	426,006,731	1,619,706,731
240,000	116	4,825	27,278,436	453,285,167	1,671,045,167
250,000	125	4,950	30,680,700	483,965,867	1,721,215,867
260,000	110	5,060	28,061,863	512,027,730	1,770,167,730
270,000	132	5,192	35,010,600	547,038,330	1,817,928,330
280,000	102	5,294	28,098,320	575,136,650	1,864,536,650
290,000	111	5,405	31,664,253	606,800,903	1,910,060,903
300,000	113	5,518	33,335,713	640,136,616	1,954,436,616
310,000	96	5,614	29,294,822	669,431,438	1,997,781,438
320,000	88	5,702	27,689,332	697,120,770	2,040,160,770
330,000	88	5,790	28,637,498	725,758,268	2,081,728,268
340,000	91	5,881	30,500,400	756,258,668	2,122,378,668
350,000	66	5,947	22,770,300	779,028,968	2,162,228,968
360,000	82	6,029	29,073,000	808,101,968	2,201,301,968
370,000	87	6,116	31,761,362	839,863,330	2,239,573,330
380,000	92	6,208	34,547,620	874,410,950	2,276,990,950
390,000	77	6,285	29,626,200	904,037,150	2,313,497,150
400,000	80	6,365	31,605,621	935,642,771	2,349,242,771

KWH Step Report for LP4 L4T L4C
 press pf15 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
410,000	70	6,435	28,318,200	963,960,971	2,384,200,971
420,000	88	6,523	36,542,550	1,000,503,521	2,418,423,521
430,000	87	6,610	36,944,271	1,037,447,792	2,451,717,792
440,000	78	6,688	33,871,565	1,071,319,357	2,484,159,357
450,000	75	6,763	33,439,103	1,104,758,460	2,515,958,460
460,000	60	6,823	27,286,500	1,132,044,960	2,547,004,960
470,000	64	6,887	29,764,500	1,161,809,460	2,577,449,460
480,000	72	6,959	34,183,786	1,195,993,246	2,607,193,246
490,000	53	7,012	25,759,800	1,221,753,046	2,636,383,046
500,000	47	7,059	23,267,100	1,245,020,146	2,665,020,146
510,000	59	7,118	29,804,531	1,274,824,677	2,693,134,677
520,000	57	7,175	29,326,676	1,304,151,353	2,720,631,353
530,000	51	7,226	26,771,889	1,330,923,242	2,747,613,242
540,000	52	7,278	27,844,305	1,358,767,547	2,774,107,547
550,000	45	7,323	24,550,890	1,383,318,437	2,800,118,437
560,000	38	7,361	21,085,738	1,404,404,175	2,825,684,175
570,000	50	7,411	28,278,900	1,432,683,075	2,850,843,075
580,000	51	7,462	29,331,040	1,462,014,115	2,875,474,115
590,000	45	7,507	26,340,675	1,488,354,790	2,899,634,790
600,000	46	7,553	27,391,200	1,515,745,990	2,923,345,990
610,000	35	7,588	21,177,300	1,536,923,290	2,946,633,290
620,000	46	7,634	28,280,438	1,565,203,728	2,969,503,728
630,000	42	7,676	26,278,722	1,591,482,450	2,991,972,450
640,000	36	7,712	22,889,250	1,614,371,700	3,014,051,700
650,000	32	7,744	20,646,833	1,635,018,533	3,035,768,533
660,000	26	7,770	17,030,400	1,652,048,933	3,057,188,933
670,000	34	7,804	22,627,847	1,674,676,780	3,078,326,780
680,000	40	7,844	27,002,792	1,701,679,572	3,099,079,572
690,000	42	7,886	28,774,310	1,730,453,882	3,119,423,882
700,000	31	7,917	21,566,700	1,752,020,582	3,139,420,582
710,000	47	7,964	33,103,919	1,785,124,501	3,158,974,501
720,000	43	8,007	30,756,533	1,815,881,034	3,178,121,034
730,000	29	8,036	21,009,633	1,836,890,667	3,196,880,667
740,000	25	8,061	18,403,930	1,855,294,597	3,215,414,597
750,000	41	8,102	30,563,179	1,885,857,776	3,233,607,776
760,000	31	8,133	23,406,141	1,909,263,917	3,251,423,917
770,000	22	8,155	16,823,084	1,926,087,001	3,268,967,001
780,000	27	8,182	20,929,500	1,947,016,501	3,286,276,501
790,000	25	8,207	19,630,800	1,966,647,301	3,303,327,301
800,000	29	8,236	23,061,486	1,989,708,787	3,320,108,787
810,000	24	8,260	19,326,300	2,009,035,087	3,336,625,087
820,000	24	8,284	19,569,906	2,028,604,993	3,352,904,993
830,000	34	8,318	28,020,539	2,056,625,532	3,368,855,532
840,000	21	8,339	17,548,486	2,074,174,018	3,384,574,018
850,000	28	8,367	23,677,954	2,097,851,972	3,400,051,972
860,000	26	8,393	22,245,677	2,120,097,649	3,415,257,649
870,000	27	8,420	23,345,652	2,143,443,301	3,430,173,301
880,000	27	8,447	23,636,310	2,167,079,611	3,444,839,611
890,000	29	8,476	25,668,814	2,192,748,425	3,459,218,425

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
900,000	24	8,500	21,496,983	2,214,245,408	3,473,345,408
910,000	25	8,525	22,628,360	2,236,873,768	3,487,213,768
920,000	18	8,543	16,471,523	2,253,345,291	3,500,865,291
930,000	24	8,567	22,190,100	2,275,535,391	3,514,295,391
940,000	21	8,588	19,632,300	2,295,167,691	3,527,507,691
950,000	16	8,604	15,106,200	2,310,273,891	3,540,523,891
960,000	29	8,633	27,713,700	2,337,987,591	3,553,347,591
970,000	23	8,656	22,200,192	2,360,187,783	3,565,897,783
980,000	26	8,682	25,346,400	2,385,534,183	3,578,194,183
990,000	13	8,695	12,812,700	2,398,346,883	3,590,306,883
1,000,000	23	8,718	22,873,800	2,421,220,683	3,602,220,683
1,100,000	173	8,891	181,719,324	2,602,940,007	3,711,740,007
1,200,000	159	9,050	182,640,804	2,785,580,811	3,804,380,811
1,300,000	146	9,196	182,211,818	2,967,792,629	3,881,692,629
1,400,000	111	9,307	149,234,670	3,117,027,299	3,945,827,299
1,500,000	105	9,412	152,350,660	3,269,377,959	3,999,877,959
1,600,000	71	9,483	109,941,409	3,379,319,368	4,044,919,368
1,700,000	60	9,543	98,851,170	3,478,170,538	4,083,370,538
1,800,000	50	9,593	87,600,882	3,565,771,420	4,116,571,420
1,900,000	27	9,620	49,889,010	3,615,660,430	4,145,760,430
2,000,000	38	9,658	74,109,230	3,689,769,660	4,171,769,660
2,100,000	33	9,691	67,739,270	3,757,508,930	4,194,308,930
2,200,000	24	9,715	51,667,570	3,809,176,500	4,213,976,500
2,300,000	26	9,741	58,358,580	3,867,535,080	4,230,935,080
2,400,000	12	9,753	28,119,600	3,895,654,680	4,246,054,680
2,500,000	13	9,766	31,735,400	3,927,390,080	4,259,890,080
2,600,000	17	9,783	43,249,760	3,970,639,840	4,272,239,840
2,700,000	24	9,807	63,618,000	4,034,257,840	4,282,657,840
2,800,000	19	9,826	52,208,400	4,086,466,240	4,290,866,240
2,900,000	14	9,840	39,896,400	4,126,362,640	4,297,462,640
3,000,000	14	9,854	41,458,800	4,167,821,440	4,302,821,440
3,100,000	11	9,865	33,606,000	4,201,427,440	4,306,827,440
3,200,000	10	9,875	31,621,200	4,233,048,640	4,309,848,640
3,300,000	6	9,881	19,488,000	4,252,536,640	4,311,936,640
3,400,000	8	9,889	26,770,800	4,279,307,440	4,313,307,440
3,500,000	5	9,894	17,167,200	4,296,474,640	4,313,974,640
3,600,000	4	9,898	14,191,200	4,310,665,840	4,314,265,840
4,032,000	1	9,899	4,032,000	4,314,697,840	4,314,697,840

KWH Step Report for LP5 L5T
 press pf15 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
12,000	1	1	12,000	12,000	12,192,000
14,000	1	2	13,210	25,210	14,221,210
17,000	1	3	17,000	42,210	17,263,210
21,000	1	4	21,000	63,210	21,315,210
26,000	2	6	52,000	115,210	26,375,210
27,000	2	8	53,400	168,610	27,384,610
36,000	1	9	36,000	204,610	36,456,610
42,000	1	10	41,100	245,710	42,497,710
44,000	1	11	44,000	289,710	44,509,710
45,000	1	12	44,700	334,410	45,514,410
48,000	1	13	47,200	381,610	48,525,610
49,000	1	14	49,000	430,610	49,528,610
54,000	2	16	106,600	537,210	54,537,210
56,000	1	17	55,600	592,810	56,536,810
57,000	1	18	56,900	649,710	57,535,710
59,000	1	19	58,600	708,310	59,531,310
63,000	1	20	63,000	771,310	63,519,310
64,000	1	21	63,600	834,910	64,514,910
67,000	1	22	66,350	901,260	67,499,260
69,000	1	23	69,000	970,260	69,487,260
70,000	1	24	70,000	1,040,260	70,480,260
71,000	1	25	71,000	1,111,260	71,472,260
72,000	1	26	72,000	1,183,260	72,463,260
73,000	1	27	72,920	1,256,180	73,453,180
75,000	1	28	75,000	1,331,180	75,431,180
76,000	1	29	75,600	1,406,780	76,418,780
77,000	1	30	77,000	1,483,780	77,405,780
80,000	1	31	79,330	1,563,110	80,363,110
83,000	1	32	83,000	1,646,110	83,318,110
85,000	1	33	85,000	1,731,110	85,286,110
90,000	2	35	180,000	1,911,110	90,201,110
91,000	1	36	91,000	2,002,110	91,182,110
93,000	1	37	93,000	2,095,110	93,142,110
94,000	1	38	93,600	2,188,710	94,120,710
95,000	2	40	189,100	2,377,810	95,097,810
96,000	1	41	95,660	2,473,470	96,073,470
97,000	1	42	96,800	2,570,270	97,048,270
110,000	10	52	1,064,710	3,634,980	109,674,980
120,000	5	57	567,830	4,202,810	119,282,810
130,000	10	67	1,256,116	5,458,926	128,828,926
140,000	6	73	808,000	6,266,926	138,286,926
150,000	5	78	728,851	6,995,777	147,695,777
160,000	6	84	937,660	7,933,437	157,053,437
170,000	1	85	170,000	8,103,437	166,373,437
180,000	6	91	1,057,000	9,160,437	175,660,437
190,000	1	92	188,000	9,348,437	184,908,437
200,000	3	95	576,000	9,924,437	194,124,437
210,000	6	101	1,245,400	11,169,837	203,319,837
220,000	4	105	856,000	12,025,837	212,445,837

KWH Step Report for LP5 L5T
 press pf15 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
230,000	5	110	1,117,600	13,143,437	221,523,437
240,000	3	113	694,000	13,837,437	230,557,437
250,000	3	116	739,000	14,576,437	239,576,437
260,000	4	120	1,018,200	15,594,637	248,554,637
270,000	5	125	1,327,500	16,922,137	257,492,137
280,000	3	128	829,100	17,751,237	266,391,237
290,000	3	131	850,500	18,601,737	275,251,737
300,000	2	133	589,000	19,190,737	284,090,737
310,000	1	134	303,000	19,493,737	292,913,737
320,000	4	138	1,260,000	20,753,737	301,713,737
330,000	1	139	321,000	21,074,737	310,484,737
340,000	3	142	1,012,700	22,087,437	319,247,437
350,000	1	143	345,700	22,433,137	327,983,137
360,000	1	144	352,400	22,785,537	336,705,537
370,000	5	149	1,819,600	24,605,137	345,395,137
380,000	2	151	743,300	25,348,437	354,048,437
390,000	1	152	386,300	25,734,737	362,694,737
400,000	2	154	791,000	26,525,737	371,325,737
410,000	3	157	1,214,000	27,739,737	379,929,737
420,000	1	158	414,000	28,153,737	388,513,737
430,000	1	159	430,000	28,583,737	397,093,737
440,000	4	163	1,736,000	30,319,737	405,639,737
450,000	4	167	1,782,400	32,102,137	414,152,137
460,000	5	172	2,287,000	34,389,137	422,629,137
470,000	1	173	465,000	34,854,137	431,064,137
480,000	3	176	1,419,000	36,273,137	439,473,137
490,000	6	182	2,925,000	39,198,137	447,858,137
500,000	4	186	1,980,000	41,178,137	456,178,137
510,000	2	188	1,018,000	42,196,137	464,476,137
520,000	6	194	3,088,868	45,285,005	472,725,005
530,000	2	196	1,054,000	46,339,005	480,939,005
550,000	4	200	2,179,000	48,518,005	497,318,005
560,000	6	206	3,327,400	51,845,405	505,445,405
570,000	1	207	562,000	52,407,405	513,537,405
580,000	1	208	580,000	52,987,405	521,627,405
590,000	6	214	3,506,700	56,494,105	529,674,105
600,000	6	220	3,563,600	60,057,705	537,657,705
610,000	4	224	2,417,300	62,475,005	545,595,005
620,000	5	229	3,082,000	65,557,005	553,497,005
630,000	4	233	2,512,100	68,069,105	561,359,105
640,000	4	237	2,541,200	70,610,305	569,170,305
660,000	3	240	1,966,000	72,576,305	584,736,305
670,000	2	242	1,326,700	73,903,005	592,483,005
680,000	2	244	1,353,000	75,256,005	600,216,005
690,000	1	245	681,000	75,937,005	607,927,005
700,000	3	248	2,083,140	78,020,145	615,620,145
710,000	2	250	1,416,000	79,436,145	623,296,145
720,000	2	252	1,433,100	80,869,245	630,949,245
730,000	1	253	724,000	81,593,245	638,583,245

KWH Step Report for LP5 LST
 press pf15 to continue

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
740,000	1	254	738,000	82,331,245	646,211,245
750,000	1	255	741,000	83,072,245	653,822,245
770,000	5	260	3,825,190	86,897,435	669,017,435
780,000	2	262	1,556,000	88,453,435	676,573,435
790,000	2	264	1,571,370	90,024,805	684,104,805
800,000	3	267	2,389,000	92,413,805	691,613,805
810,000	3	270	2,414,000	94,827,805	699,087,805
840,000	1	271	833,000	95,660,805	721,460,805
850,000	2	273	1,692,000	97,352,805	728,902,805
860,000	3	276	2,562,050	99,914,855	736,314,855
870,000	4	280	3,461,740	103,376,595	743,696,595
880,000	1	281	874,000	104,250,595	751,050,595
890,000	2	283	1,776,000	106,026,595	758,396,595
900,000	4	287	3,584,420	109,611,015	765,711,015
910,000	3	290	2,713,600	112,324,615	772,984,615
920,000	1	291	915,000	113,239,615	780,239,615
930,000	4	295	3,693,810	116,933,425	787,463,425
940,000	3	298	2,809,000	119,742,425	794,662,425
950,000	2	300	1,883,900	121,626,325	801,826,325
960,000	2	302	1,910,810	123,537,135	808,977,135
970,000	2	304	1,937,000	125,474,135	816,114,135
980,000	2	306	1,942,280	127,416,415	823,216,415
990,000	4	310	3,943,000	131,359,415	830,299,415
1,000,000	2	312	1,995,220	133,354,635	837,354,635
1,100,000	16	328	16,781,880	150,136,515	906,936,515
1,200,000	14	342	16,160,200	166,296,715	975,096,715
1,300,000	20	362	25,055,600	191,352,315	1,041,552,315
1,400,000	17	379	23,090,462	214,442,777	1,106,242,777
1,500,000	10	389	14,458,000	228,900,777	1,169,400,777
1,600,000	8	397	12,415,800	241,316,577	1,231,716,577
1,700,000	20	417	32,901,600	274,218,177	1,292,518,177
1,800,000	25	442	43,755,500	317,973,677	1,351,173,677
1,900,000	29	471	53,788,000	371,761,677	1,407,261,677
2,000,000	18	489	34,990,200	406,751,877	1,460,751,877
2,100,000	26	515	53,219,600	459,971,477	1,512,071,477
2,200,000	30	545	64,622,800	524,594,277	1,560,794,277
2,300,000	19	564	42,730,571	567,324,848	1,606,924,848
2,400,000	21	585	49,367,800	616,692,648	1,651,092,648
2,500,000	22	607	53,899,043	670,591,691	1,693,091,691
2,600,000	21	628	53,597,000	724,188,691	1,732,988,691
2,700,000	13	641	34,494,020	758,682,711	1,771,182,711
2,800,000	15	656	41,243,000	799,925,711	1,807,925,711
2,900,000	18	674	51,245,500	851,171,211	1,842,971,211
3,000,000	15	689	44,282,800	895,454,011	1,876,454,011
3,100,000	17	706	51,625,290	947,079,301	1,908,079,301
3,200,000	16	722	50,495,470	997,574,771	1,938,374,771
3,300,000	18	740	58,654,000	1,056,228,771	1,967,028,771
3,400,000	14	754	47,030,000	1,103,258,771	1,994,058,771
3,500,000	10	764	34,372,000	1,137,630,771	2,019,630,771

KWH Step Report for LPS LST
 press pf15 to continue

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
3,600,000	20	784	70,896,000	1,208,526,771	2,043,726,771
3,700,000	11	795	40,195,000	1,248,721,771	2,066,421,771
3,800,000	10	805	37,483,000	1,286,204,771	2,088,004,771
3,900,000	5	810	19,265,000	1,305,469,771	2,108,869,771
4,000,000	6	816	23,736,000	1,329,205,771	2,129,205,771
4,100,000	13	829	52,639,200	1,381,844,971	2,148,544,971
4,200,000	8	837	33,265,000	1,415,109,971	2,166,909,971
4,300,000	10	847	42,587,000	1,457,696,971	2,184,396,971
4,400,000	9	856	39,117,940	1,496,814,911	2,200,814,911
4,500,000	6	862	26,710,000	1,523,524,911	2,216,524,911
4,600,000	12	874	54,484,000	1,578,008,911	2,231,208,911
4,700,000	14	888	65,119,300	1,643,128,211	2,244,728,211
4,800,000	7	895	33,182,000	1,676,310,211	2,257,110,211
4,900,000	9	904	43,674,230	1,719,984,441	2,268,784,441
5,000,000	7	911	34,611,660	1,754,596,101	2,279,596,101
5,100,000	6	917	30,297,000	1,784,893,101	2,289,793,101
5,200,000	5	922	25,784,560	1,810,677,661	2,299,477,661
5,300,000	4	926	21,077,770	1,831,755,431	2,308,755,431
5,400,000	1	927	5,315,000	1,837,070,431	2,317,670,431
5,500,000	2	929	10,917,900	1,847,988,331	2,326,488,331
5,600,000	1	930	5,582,000	1,853,570,331	2,335,170,331
5,700,000	1	931	5,672,000	1,859,242,331	2,343,742,331
5,900,000	3	934	17,544,000	1,876,786,331	2,360,586,331
6,000,000	3	937	17,919,000	1,894,705,331	2,368,705,331
6,100,000	4	941	24,170,000	1,918,875,331	2,376,375,331
6,200,000	1	942	6,102,000	1,924,977,331	2,383,777,331
6,300,000	2	944	12,581,000	1,937,558,331	2,391,158,331
6,400,000	2	946	12,748,740	1,950,307,071	2,398,307,071
6,600,000	3	949	19,672,160	1,969,979,231	2,412,179,231
6,700,000	1	950	6,690,390	1,976,669,621	2,418,869,621
6,800,000	1	951	6,792,960	1,983,462,581	2,425,462,581
6,900,000	2	953	13,629,460	1,997,092,041	2,431,792,041
7,000,000	2	955	13,899,940	2,010,991,981	2,437,991,981
7,100,000	3	958	21,048,020	2,032,040,001	2,443,840,001
7,200,000	4	962	28,587,900	2,060,627,901	2,449,427,901
7,300,000	3	965	21,761,030	2,082,388,931	2,454,688,931
7,400,000	3	968	22,051,000	2,104,439,931	2,459,639,931
7,500,000	3	971	22,372,680	2,126,812,611	2,464,312,611
7,600,000	2	973	15,129,000	2,141,941,611	2,468,741,611
7,700,000	1	974	7,680,000	2,149,621,611	2,473,021,611
7,800,000	3	977	23,252,980	2,172,874,591	2,477,074,591
7,900,000	1	978	7,846,000	2,180,720,591	2,480,920,591
8,000,000	3	981	23,967,000	2,204,687,591	2,484,687,591
8,100,000	2	983	16,127,000	2,220,814,591	2,488,114,591
8,200,000	1	984	8,109,000	2,228,923,591	2,491,323,591
8,300,000	1	985	8,214,000	2,237,137,591	2,494,437,591
8,600,000	1	986	8,512,000	2,245,649,591	2,503,649,591
8,700,000	1	987	8,652,000	2,254,301,591	2,506,601,591
9,000,000	1	988	8,948,000	2,263,249,591	2,515,249,591

KWH Step Report for LP5 L5T
 press pf15 to continue

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
9,200,000	1	989	9,120,000	2,272,369,591	2,520,769,591
9,300,000	2	991	18,480,000	2,290,849,591	2,523,349,591
9,400,000	1	992	9,337,000	2,300,186,591	2,525,786,591
9,500,000	1	993	9,420,000	2,309,606,591	2,528,106,591
9,700,000	1	994	9,624,000	2,319,230,591	2,532,630,591
9,800,000	1	995	9,782,620	2,329,013,211	2,534,813,211
9,900,000	1	996	9,837,000	2,338,850,211	2,536,850,211
10,000,000	1	997	9,951,000	2,348,801,211	2,538,801,211
10,100,000	1	998	10,090,030	2,358,891,241	2,540,691,241
10,200,000	2	1,000	20,249,070	2,379,140,311	2,542,340,311
10,500,000	2	1,002	20,867,740	2,400,008,051	2,547,008,051
10,700,000	2	1,004	21,352,020	2,421,360,071	2,549,760,071
10,800,000	1	1,005	10,715,100	2,432,075,171	2,550,875,171
11,000,000	1	1,006	10,940,000	2,443,015,171	2,553,015,171
11,100,000	1	1,007	11,062,750	2,454,077,921	2,553,977,921
11,200,000	2	1,009	22,306,360	2,476,384,281	2,554,784,281
11,400,000	1	1,010	11,395,000	2,487,779,281	2,556,179,281
11,500,000	1	1,011	11,491,000	2,499,270,281	2,556,770,281
11,600,000	1	1,012	11,511,700	2,510,781,981	2,557,181,981
11,800,000	1	1,013	11,770,000	2,522,551,981	2,557,951,981
12,000,000	2	1,015	23,908,840	2,546,460,821	2,558,460,821
12,138,000	1	1,016	12,138,000	2,558,598,821	2,558,598,821

KWH Step Report for LP6 L6T
 press pf15 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
5,000,000	1	1	4,901,000	4,901,000	299,901,000
5,600,000	1	2	5,593,000	10,494,000	335,294,000
5,700,000	1	3	5,632,650	16,126,650	341,026,650
5,800,000	3	6	17,225,090	33,351,740	346,551,740
5,900,000	3	9	17,552,840	50,904,580	351,804,580
6,000,000	1	10	5,922,880	56,827,460	356,827,460
6,100,000	1	11	6,000,150	62,827,610	361,727,610
6,300,000	2	13	12,485,320	75,312,930	371,412,930
6,400,000	2	15	12,698,970	88,011,900	376,011,900
6,600,000	3	18	19,642,430	107,654,330	384,854,330
6,800,000	1	19	6,777,000	114,431,330	393,231,330
7,300,000	1	20	7,273,000	121,704,330	413,704,330
7,400,000	2	22	14,694,000	136,398,330	417,598,330
7,700,000	2	24	15,278,000	151,676,330	428,876,330
7,800,000	2	26	15,511,000	167,187,330	432,387,330
8,100,000	1	27	8,027,000	175,214,330	442,514,330
8,200,000	1	28	8,173,000	183,387,330	445,787,330
8,300,000	1	29	8,206,000	191,593,330	448,893,330
8,500,000	1	30	8,465,000	200,058,330	455,058,330
8,600,000	3	33	25,594,000	225,652,330	457,852,330
8,800,000	1	34	8,784,000	234,436,330	463,236,330
8,900,000	1	35	8,802,000	243,238,330	465,738,330
9,000,000	1	36	8,939,000	252,177,330	468,177,330
9,200,000	1	37	9,134,000	261,311,330	472,911,330
9,300,000	1	38	9,263,000	270,574,330	475,174,330
9,600,000	2	40	19,078,000	289,652,330	481,652,330
10,100,000	2	42	20,114,000	309,766,330	491,566,330
10,200,000	1	43	10,148,000	319,914,330	493,314,330
10,400,000	1	44	10,351,000	330,265,330	496,665,330
10,900,000	1	45	10,852,000	341,117,330	504,617,330
11,600,000	1	46	11,553,000	352,670,330	515,070,330
11,700,000	1	47	11,668,000	364,338,330	516,438,330
12,100,000	1	48	12,046,000	376,384,330	521,584,330
13,500,000	1	49	13,439,000	389,823,330	538,323,330
14,100,000	1	50	14,038,000	403,861,330	544,861,330
14,200,000	1	51	14,110,000	417,971,330	545,771,330
14,400,000	1	52	14,345,000	432,316,330	547,516,330
14,800,000	2	54	29,456,000	461,772,330	550,572,330
14,900,000	2	56	29,673,000	491,445,330	551,045,330
15,300,000	2	58	30,533,000	521,978,330	552,578,330
16,400,000	1	59	16,315,000	538,293,330	554,693,330
17,181,000	1	60	17,181,000	555,474,330	555,474,330

KWH Step Report for ISP
 press pf15 to continue

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
150,000	1	1	147,600	147,600	57,597,600
160,000	1	2	153,000	300,600	61,420,600
180,000	1	3	178,200	478,800	69,058,800
190,000	1	4	181,800	660,600	72,860,600
200,000	3	7	581,400	1,242,000	76,642,000
230,000	1	8	225,000	1,467,000	87,947,000
250,000	2	10	488,400	1,955,400	95,455,400
260,000	2	12	505,200	2,460,600	99,180,600
270,000	1	13	266,400	2,727,000	102,897,000
280,000	4	17	1,093,200	3,820,200	106,580,200
290,000	4	21	1,144,800	4,965,000	110,235,000
300,000	2	23	591,600	5,556,600	113,856,600
310,000	3	26	920,400	6,477,000	117,457,000
320,000	1	27	318,000	6,795,000	121,035,000
330,000	1	28	330,000	7,125,000	124,605,000
340,000	2	30	672,600	7,797,600	128,157,600
350,000	5	35	1,714,800	9,512,400	131,662,400
360,000	5	40	1,771,500	11,283,900	135,123,900
370,000	5	45	1,828,200	13,112,100	138,542,100
380,000	6	51	2,244,600	15,356,700	141,896,700
390,000	1	52	386,400	15,743,100	145,223,100
400,000	2	54	792,600	16,535,700	148,535,700
410,000	3	57	1,212,600	17,748,300	151,818,300
420,000	4	61	1,668,900	19,417,200	155,077,200
430,000	2	63	853,500	20,270,700	158,300,700
440,000	4	67	1,741,500	22,012,200	161,492,200
450,000	1	68	441,000	22,453,200	164,653,200
460,000	2	70	910,800	23,364,000	167,804,000
470,000	3	73	1,401,600	24,765,600	170,935,600
480,000	1	74	478,800	25,244,400	174,044,400
490,000	1	75	488,700	25,733,100	177,143,100
500,000	5	80	2,480,700	28,213,800	180,213,800
510,000	5	85	2,533,800	30,747,600	183,237,600
520,000	2	87	1,026,000	31,773,600	186,213,600
530,000	2	89	1,056,600	32,830,200	189,180,200
540,000	3	92	1,599,600	34,429,800	192,109,800
550,000	5	97	2,732,400	37,162,200	195,012,200
560,000	4	101	2,227,500	39,389,700	197,869,700
570,000	4	105	2,256,900	41,646,600	200,676,600
580,000	1	106	572,400	42,219,000	203,459,000
590,000	6	112	3,511,200	45,730,200	206,210,200
600,000	2	114	1,192,800	46,923,000	208,923,000
610,000	3	117	1,814,100	48,737,100	211,607,100
620,000	4	121	2,454,000	51,191,100	214,251,100
630,000	3	124	1,870,200	53,061,300	216,861,300
640,000	3	127	1,902,900	54,964,200	219,444,200
650,000	7	134	4,511,100	59,475,300	221,975,300
660,000	5	139	3,274,200	62,749,500	224,449,500
670,000	4	143	2,668,500	65,418,000	226,888,000

KWH Step Report for ISP
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14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
680,000	2	145	1,346,400	66,764,400	229,284,400
700,000	5	150	3,472,800	70,237,200	234,037,200
710,000	2	152	1,412,100	71,649,300	236,369,300
720,000	3	155	2,155,800	73,805,100	238,685,100
730,000	6	161	4,348,800	78,153,900	240,943,900
740,000	2	163	1,463,400	79,617,300	243,157,300
750,000	1	164	747,900	80,365,200	245,365,200
760,000	1	165	756,900	81,122,100	247,562,100
780,000	3	168	2,335,800	83,457,900	251,937,900
790,000	3	171	2,353,200	85,811,100	254,081,100
800,000	4	175	3,185,400	88,996,500	256,196,500
810,000	3	178	2,410,200	91,406,700	258,266,700
860,000	1	179	851,400	92,258,100	268,558,100
870,000	1	180	866,400	93,124,500	270,604,500
880,000	3	183	2,620,800	95,745,300	272,625,300
890,000	2	185	1,771,800	97,517,100	274,627,100
900,000	6	191	5,378,400	102,895,500	276,595,500
910,000	2	193	1,809,600	104,705,100	278,515,100
930,000	2	195	1,845,600	106,550,700	282,320,700
940,000	1	196	936,000	107,486,700	284,206,700
950,000	1	197	940,800	108,427,500	286,077,500
960,000	3	200	2,870,400	111,297,900	287,937,900
970,000	3	203	2,898,000	114,195,900	289,765,900
980,000	1	204	970,800	115,166,700	291,566,700
990,000	2	206	1,977,600	117,144,300	293,364,300
1,100,000	21	227	22,081,200	139,225,500	311,925,500
1,200,000	11	238	12,578,400	151,803,900	327,003,900
1,300,000	9	247	11,139,000	162,942,900	341,042,900
1,400,000	13	260	17,655,120	180,598,020	354,198,020
1,500,000	4	264	5,839,240	186,437,260	366,437,260
1,600,000	13	277	20,011,320	206,448,580	377,648,580
1,700,000	16	293	26,530,845	232,979,425	387,679,425
1,800,000	12	305	21,028,080	254,007,505	396,207,505
1,900,000	16	321	29,456,170	283,463,675	403,163,675
2,000,000	6	327	11,799,140	295,262,815	409,262,815
2,100,000	5	332	10,196,570	305,459,385	414,659,385
2,200,000	10	342	21,434,400	326,893,785	419,293,785
2,300,000	4	346	8,907,600	335,801,385	423,201,385
2,400,000	13	359	30,525,880	366,327,265	426,327,265
2,500,000	1	360	2,486,400	368,813,665	428,813,665
2,600,000	10	370	25,319,228	394,132,893	430,532,893
2,700,000	6	376	15,856,410	409,989,303	431,589,303
2,800,000	3	379	8,272,860	418,262,163	432,262,163
2,900,000	1	380	2,817,600	421,079,763	432,679,763
3,000,000	2	382	5,942,060	427,021,823	433,021,823
3,009,600	2	384	6,014,400	433,036,223	433,036,223

KWH Step Report for IST
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
19,000	1	1	18,375	18,375	7,105,375
84,000	1	2	84,000	102,375	31,350,375
180,000	1	3	172,000	274,375	67,054,375
310,000	1	4	306,000	580,375	115,280,375
320,000	1	5	319,000	899,375	118,979,375
340,000	1	6	336,000	1,235,375	126,355,375
390,000	1	7	385,000	1,620,375	144,750,375
400,000	1	8	393,000	2,013,375	148,413,375
430,000	2	10	855,000	2,868,375	159,388,375
470,000	1	11	470,000	3,338,375	173,948,375
510,000	1	12	507,000	3,845,375	188,465,375
530,000	1	13	527,000	4,372,375	195,702,375
590,000	1	14	588,000	4,960,375	217,360,375
620,000	1	15	616,000	5,576,375	228,156,375
710,000	1	16	705,000	6,281,375	260,461,375
740,000	1	17	733,000	7,014,375	271,194,375
910,000	1	18	904,000	7,918,375	331,878,375
1,100,000	1	19	1,074,000	8,992,375	399,492,375
1,200,000	3	22	3,557,000	12,549,375	434,949,375
1,300,000	6	28	7,393,000	19,942,375	469,742,375
1,400,000	1	29	1,349,020	21,291,395	504,291,395
1,500,000	2	31	2,935,000	24,226,395	538,726,395
1,600,000	6	37	9,268,310	33,494,705	572,694,705
1,700,000	9	46	14,805,562	48,300,267	605,900,267
1,800,000	10	56	17,551,210	65,851,477	638,251,477
1,900,000	4	60	7,331,080	73,182,557	669,782,557
2,000,000	3	63	5,864,000	79,046,557	701,046,557
2,100,000	7	70	14,383,940	93,430,497	731,830,497
2,200,000	9	79	19,363,000	112,793,497	761,793,497
2,300,000	8	87	17,995,000	130,788,497	790,888,497
2,400,000	5	92	11,666,000	142,454,497	819,254,497
2,500,000	6	98	14,736,000	157,190,497	847,190,497
2,600,000	1	99	2,600,000	159,790,497	874,790,497
2,700,000	5	104	13,261,000	173,051,497	902,051,497
2,800,000	8	112	22,093,330	195,144,827	928,744,827
2,900,000	9	121	25,646,860	220,791,687	954,491,687
3,000,000	5	126	14,791,050	235,582,737	979,582,737
3,100,000	5	131	15,274,130	250,856,867	1,004,156,867
3,200,000	8	139	25,246,780	276,103,647	1,028,103,647
3,300,000	7	146	22,889,310	298,992,957	1,051,392,957
3,400,000	5	151	16,677,680	315,670,637	1,073,870,637
3,600,000	1	152	3,505,000	319,175,637	1,118,375,637
3,700,000	1	153	3,674,000	322,849,637	1,140,549,637
3,800,000	2	155	7,520,000	330,369,637	1,162,569,637
3,900,000	4	159	15,405,684	345,775,321	1,184,275,321
4,000,000	1	160	3,956,000	349,731,321	1,205,731,321
4,100,000	3	163	12,246,000	361,977,321	1,227,077,321
4,200,000	7	170	29,034,000	391,011,321	1,247,811,321
4,300,000	4	174	17,098,000	408,109,321	1,268,109,321

KWH Step Report for IST
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
4,400,000	6	180	26,115,000	434,224,321	1,287,824,321
4,500,000	1	181	4,408,000	438,632,321	1,307,132,321
4,600,000	3	184	13,719,000	452,351,321	1,326,351,321
4,700,000	6	190	27,842,570	480,193,891	1,344,993,891
4,800,000	8	198	38,116,000	518,309,891	1,363,109,891
4,900,000	3	201	14,507,480	532,817,371	1,380,517,371
5,000,000	4	205	19,846,849	552,664,220	1,397,664,220
5,100,000	4	209	20,234,862	572,899,082	1,414,399,082
5,200,000	6	215	30,946,670	603,845,752	1,430,645,752
5,300,000	4	219	20,963,190	624,808,942	1,446,308,942
5,400,000	2	221	10,700,000	635,508,942	1,461,708,942
5,500,000	4	225	21,796,440	657,305,382	1,476,805,382
5,600,000	2	227	11,121,000	668,426,382	1,491,626,382
5,700,000	5	232	28,228,000	696,654,382	1,506,054,382
5,800,000	1	233	5,716,000	702,370,382	1,520,170,382
5,900,000	5	238	29,278,000	731,648,382	1,534,048,382
6,000,000	4	242	23,724,040	755,372,422	1,547,372,422
6,200,000	4	246	24,554,620	779,927,042	1,573,527,042
6,300,000	1	247	6,217,000	786,144,042	1,586,244,042
6,500,000	2	249	12,900,000	799,044,042	1,611,544,042
6,700,000	1	250	6,673,500	805,717,542	1,636,517,542
6,800,000	1	251	6,798,000	812,515,542	1,648,915,542
6,900,000	2	253	13,727,000	826,242,542	1,661,142,542
7,000,000	1	254	6,982,170	833,224,712	1,673,224,712
7,100,000	3	257	21,152,143	854,376,855	1,685,076,855
7,200,000	2	259	14,269,050	868,645,905	1,696,645,905
7,300,000	3	262	21,608,000	890,253,905	1,707,853,905
7,400,000	4	266	29,512,300	919,766,205	1,718,966,205
7,500,000	1	267	7,479,000	927,245,205	1,729,745,205
7,700,000	3	270	22,911,660	950,156,865	1,750,956,865
7,900,000	2	272	15,610,959	965,767,824	1,771,567,824
8,000,000	3	275	23,870,191	989,638,015	1,781,638,015
8,100,000	2	277	16,066,340	1,005,704,355	1,791,404,355
8,200,000	1	278	8,106,740	1,013,811,095	1,801,011,095
8,600,000	1	279	8,595,000	1,022,406,095	1,839,406,095
8,700,000	2	281	17,225,330	1,039,631,425	1,848,731,425
8,900,000	1	282	8,867,260	1,048,498,685	1,867,298,685
9,100,000	1	283	9,015,000	1,057,513,685	1,885,613,685
9,200,000	1	284	9,184,000	1,066,697,685	1,894,697,685
9,300,000	2	286	18,511,484	1,085,209,169	1,903,609,169
9,500,000	3	289	28,382,000	1,113,591,169	1,921,091,169
9,600,000	4	293	38,163,200	1,151,754,369	1,929,354,369
9,700,000	2	295	19,300,000	1,171,054,369	1,937,354,369
9,800,000	1	296	9,780,833	1,180,835,202	1,945,235,202
9,900,000	1	297	9,861,120	1,190,696,322	1,952,996,322
10,000,000	1	298	9,931,000	1,200,627,322	1,960,627,322
10,200,000	2	300	20,362,000	1,220,989,322	1,975,789,322
10,300,000	1	301	10,283,670	1,231,272,992	1,983,172,992
10,400,000	1	302	10,357,000	1,241,629,992	1,990,429,992

KWH Step Report for IST
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
10,600,000	1	303	10,556,200	1,252,186,192	2,004,786,192
10,700,000	1	304	10,684,800	1,262,870,992	2,011,870,992
10,800,000	1	305	10,728,000	1,273,598,992	2,018,798,992
10,900,000	2	307	21,674,330	1,295,273,322	2,025,573,322
11,000,000	2	309	21,849,070	1,317,122,392	2,032,122,392
11,100,000	1	310	11,040,000	1,328,162,392	2,038,562,392
11,200,000	1	311	11,167,680	1,339,330,072	2,044,930,072
11,300,000	2	313	22,560,940	1,361,891,012	2,051,191,012
11,400,000	4	317	45,430,840	1,407,321,852	2,057,121,852
11,500,000	1	318	11,477,000	1,418,798,852	2,062,798,852
11,800,000	1	319	11,748,155	1,430,547,007	2,079,547,007
11,900,000	1	320	11,817,750	1,442,364,757	2,084,964,757
12,000,000	2	322	23,849,280	1,466,214,037	2,090,214,037
12,200,000	1	323	12,131,630	1,478,345,667	2,100,545,667
12,500,000	5	328	62,246,902	1,540,592,569	2,115,592,569
12,600,000	1	329	12,580,620	1,553,173,189	2,120,173,189
12,900,000	5	334	64,226,860	1,617,400,049	2,133,400,049
13,000,000	1	335	12,987,280	1,630,387,329	2,137,387,329
13,200,000	2	337	26,305,300	1,656,692,629	2,145,092,629
13,400,000	2	339	26,618,880	1,683,311,509	2,152,311,509
13,600,000	2	341	27,101,870	1,710,413,379	2,159,213,379
13,800,000	1	342	13,707,000	1,724,120,379	2,165,720,379
13,900,000	1	343	13,850,000	1,737,970,379	2,168,870,379
14,000,000	2	345	27,940,420	1,765,910,799	2,171,910,799
14,100,000	1	346	14,076,438	1,779,987,237	2,174,787,237
14,200,000	1	347	14,163,000	1,794,150,237	2,177,550,237
14,300,000	1	348	14,202,000	1,808,352,237	2,180,152,237
14,400,000	4	352	57,367,000	1,865,719,237	2,182,519,237
14,600,000	1	353	14,514,000	1,880,233,237	2,186,833,237
14,800,000	5	358	73,657,000	1,953,890,237	2,190,690,237
15,100,000	2	360	30,150,000	1,984,040,237	2,195,440,237
15,300,000	1	361	15,264,000	1,999,304,237	2,198,204,237
15,800,000	1	362	15,732,000	2,015,036,237	2,204,636,237
15,900,000	1	363	15,809,000	2,030,845,237	2,205,745,237
16,900,000	1	364	16,812,000	2,047,657,237	2,216,657,237
17,800,000	1	365	17,746,000	2,065,403,237	2,225,603,237
18,200,000	1	366	18,123,000	2,083,526,237	2,229,126,237
19,100,000	1	367	19,060,000	2,102,586,237	2,236,286,237
19,500,000	1	368	19,420,000	2,122,006,237	2,239,006,237
19,700,000	1	369	19,634,000	2,141,640,237	2,240,140,237
20,300,000	1	370	20,219,000	2,161,859,237	2,243,059,237
20,600,000	1	371	20,513,000	2,182,372,237	2,244,172,237
21,100,000	2	373	42,138,000	2,224,510,237	2,245,610,237
21,659,000	1	374	21,659,000	2,246,169,237	2,246,169,237

KWH Step Report for GH1 H1T H1P H1Q
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
0	313	313	0	0	0
1	5	318	5	5	14,285
2	3	321	6	11	28,565
3	3	324	9	20	42,842
4	1	325	4	24	57,116
5	3	328	15	39	71,389
6	1	329	6	45	85,659
7	4	333	28	73	99,928
8	2	335	16	89	114,193
9	2	337	18	107	128,456
10	1	338	10	117	142,717
12	1	339	12	129	171,237
13	2	341	26	155	185,496
14	3	344	42	197	199,753
16	2	346	32	229	228,261
20	1	347	20	249	285,269
21	1	348	21	270	299,520
22	1	349	22	292	313,770
23	1	350	23	315	328,019
30	1	351	27	342	427,752
35	1	352	32	374	498,984
40	5	357	200	574	570,214
45	2	359	86	660	641,415
50	4	363	200	860	712,610
55	2	365	109	969	783,784
65	3	368	187	1,156	926,106
70	5	373	349	1,505	997,255
75	2	375	149	1,654	1,068,379
80	5	380	394	2,048	1,139,488
85	3	383	250	2,298	1,210,573
90	2	385	179	2,477	1,281,647
95	4	389	376	2,853	1,352,708
100	4	393	396	3,249	1,423,749
105	2	395	205	3,454	1,494,769
110	2	397	219	3,673	1,565,783
115	3	400	342	4,015	1,636,785
120	8	408	959	4,974	1,707,774
125	3	411	368	5,342	1,778,717
130	3	414	383	5,725	1,849,645
135	1	415	132	5,857	1,920,562
140	3	418	420	6,277	1,991,477
145	2	420	286	6,563	2,062,373
150	3	423	443	7,006	2,133,256
155	1	424	152	7,158	2,204,128
160	17	441	2,713	9,871	2,274,991
165	1	442	165	10,036	2,345,776
170	3	445	502	10,538	2,416,548
175	6	451	1,040	11,578	2,487,303
180	5	456	893	12,471	2,558,031

KWH Step Report for GH1 H1T H1P H1Q
 press pf15 to continue

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
185	2	458	368	12,839	2,628,739
190	2	460	374	13,213	2,699,433
195	1	461	193	13,406	2,770,121
200	6	467	1,199	14,605	2,840,805
225	12	479	2,548	17,153	3,193,928
250	34	513	8,156	25,309	3,546,559
275	13	526	3,447	28,756	3,898,556
300	20	546	5,732	34,488	4,250,088
325	25	571	7,962	42,450	4,601,225
350	15	586	5,083	47,533	4,951,733
375	22	608	7,949	55,482	5,301,732
400	34	642	13,302	68,784	5,651,184
425	13	655	5,358	74,142	5,999,917
450	15	670	6,586	80,728	6,348,328
475	9	679	4,146	84,874	6,696,399
500	30	709	14,534	99,408	7,043,908
525	24	733	12,356	111,764	7,390,889
550	15	748	8,045	119,809	7,737,309
575	23	771	12,877	132,686	8,083,211
600	28	799	16,616	149,302	8,428,702
625	10	809	6,090	155,392	8,773,517
650	39	848	24,885	180,277	9,117,777
675	20	868	13,213	193,490	9,461,240
700	19	887	13,052	206,542	9,804,242
725	34	921	24,343	230,885	10,146,710
750	18	939	13,282	244,167	10,488,417
775	24	963	18,315	262,482	10,829,607
800	29	992	22,971	285,453	11,170,253
825	16	1,008	12,993	298,446	11,510,196
850	32	1,040	26,847	325,293	11,849,593
875	14	1,054	12,051	337,344	12,188,344
900	37	1,091	32,783	370,127	12,526,427
925	28	1,119	25,650	395,777	12,863,852
950	12	1,131	11,248	407,025	13,200,675
975	25	1,156	24,089	431,114	13,537,064
1,000	24	1,180	23,806	454,920	13,872,920
1,100	71	1,251	74,648	529,568	15,211,268
1,200	101	1,352	116,868	646,436	16,541,636
1,300	70	1,422	88,206	734,642	17,863,442
1,400	84	1,506	113,769	848,411	19,177,211
1,500	87	1,593	126,718	975,129	20,482,629
1,600	82	1,675	127,500	1,102,629	21,779,429
1,700	78	1,753	128,834	1,231,463	23,067,963
1,800	89	1,842	156,218	1,387,681	24,348,481
1,900	83	1,925	153,538	1,541,219	25,619,919
2,000	98	2,023	191,197	1,732,416	26,882,416
2,100	94	2,117	193,617	1,926,033	28,136,133
2,200	78	2,195	168,225	2,094,258	29,380,858
2,300	90	2,285	202,558	2,296,816	30,616,716

KWH Step Report for GH1 H1T H1P H1Q
 press pf15 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
2,400	120	2,405	283,906	2,580,722	31,843,922
2,500	75	2,480	184,390	2,765,112	33,060,112
2,600	94	2,574	239,626	3,004,738	34,267,138
2,700	93	2,667	246,744	3,251,482	35,465,182
2,800	100	2,767	275,173	3,526,655	36,653,455
2,900	90	2,857	256,965	3,783,620	37,832,520
3,000	102	2,959	301,634	4,085,254	39,002,254
3,100	91	3,050	277,925	4,363,179	40,161,979
3,200	121	3,171	381,916	4,745,095	41,311,495
3,300	85	3,256	276,466	5,021,561	42,450,161
3,400	77	3,333	258,116	5,279,677	43,580,677
3,500	94	3,427	324,704	5,604,381	44,702,881
3,600	116	3,543	412,912	6,017,293	45,815,293
3,700	86	3,629	314,032	6,331,325	46,916,625
3,800	107	3,736	401,794	6,733,119	48,008,719
3,900	100	3,836	384,505	7,117,624	49,089,424
4,000	102	3,938	404,039	7,521,663	50,161,663
4,100	84	4,022	340,962	7,862,625	51,224,225
4,200	87	4,109	361,767	8,224,392	52,278,192
4,300	78	4,187	331,884	8,556,276	53,323,576
4,400	100	4,287	434,997	8,991,273	54,359,673
4,500	93	4,380	414,797	9,406,070	55,387,070
4,600	84	4,464	382,668	9,788,738	56,405,138
4,700	86	4,550	400,194	10,188,932	57,414,532
4,800	97	4,647	461,707	10,650,639	58,415,439
4,900	63	4,710	305,910	10,956,549	59,407,749
5,000	79	4,789	391,330	11,347,879	60,392,879
5,100	62	4,851	313,463	11,661,342	61,371,042
5,200	108	4,959	556,906	12,218,248	62,341,048
5,300	62	5,021	326,736	12,544,984	63,303,084
5,400	77	5,098	412,213	12,957,197	64,257,197
5,500	69	5,167	376,447	13,333,644	65,204,144
5,600	102	5,269	566,803	13,900,447	66,142,847
5,700	69	5,338	390,614	14,291,061	67,073,061
5,800	83	5,421	477,824	14,768,885	67,995,485
5,900	60	5,481	351,205	15,120,090	68,910,390
6,000	97	5,578	577,960	15,698,050	69,818,050
6,100	72	5,650	436,360	16,134,410	70,717,210
6,200	69	5,719	424,436	16,558,846	71,608,646
6,300	50	5,769	312,895	16,871,741	72,494,441
6,400	98	5,867	622,947	17,494,688	73,373,088
6,500	49	5,916	316,506	17,811,194	74,244,194
6,600	67	5,983	439,423	18,250,617	75,109,617
6,700	53	6,036	352,502	18,603,119	75,968,519
6,800	88	6,124	594,052	19,197,171	76,820,371
6,900	45	6,169	308,632	19,505,803	77,665,903
7,000	62	6,231	431,260	19,937,063	78,506,063
7,100	54	6,285	380,856	20,317,919	79,340,219
7,200	89	6,374	638,126	20,956,045	80,168,845

KWH Step Report for GH1 H1T H1P H1Q
 press pf15 to continue

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
7,300	43	6,417	312,387	21,268,432	80,989,732
7,400	57	6,474	419,417	21,687,849	81,805,449
7,500	68	6,542	506,889	22,194,738	82,614,738
7,600	73	6,615	552,016	22,746,754	83,417,554
7,700	55	6,670	421,200	23,167,954	84,213,554
7,800	45	6,715	349,639	23,517,593	85,004,993
7,900	44	6,759	345,726	23,863,319	85,791,419
8,000	81	6,840	644,390	24,507,709	86,571,709
8,100	39	6,879	314,540	24,822,249	87,346,149
8,200	61	6,940	497,597	25,319,846	88,115,446
8,300	45	6,985	371,580	25,691,426	88,879,326
8,400	83	7,068	693,796	26,385,222	89,637,222
8,500	39	7,107	330,158	26,715,380	90,388,880
8,600	57	7,164	487,201	27,202,581	91,134,981
8,700	52	7,216	449,967	27,652,548	91,875,948
8,800	54	7,270	473,093	28,125,641	92,612,041
8,900	35	7,305	310,092	28,435,733	93,343,433
9,000	57	7,362	511,434	28,947,167	94,071,167
9,100	26	7,388	235,366	29,182,533	94,793,533
9,200	68	7,456	622,832	29,805,365	95,511,765
9,300	42	7,498	389,001	30,194,366	96,224,366
9,400	51	7,549	477,460	30,671,826	96,932,426
9,500	45	7,594	425,365	31,097,191	97,635,191
9,600	58	7,652	555,096	31,652,287	98,333,887
9,700	29	7,681	280,209	31,932,496	99,027,396
9,800	50	7,731	487,459	32,419,955	99,716,555
9,900	47	7,778	463,345	32,883,300	100,401,300
10,000	53	7,831	527,657	33,410,957	101,080,957
11,000	385	8,216	4,055,852	37,466,809	107,668,809
12,000	359	8,575	4,137,381	41,604,190	113,880,190
13,000	323	8,898	4,044,184	45,648,374	119,748,374
14,000	296	9,194	3,997,196	49,645,570	125,301,570
15,000	267	9,461	3,879,490	53,525,060	130,580,060
16,000	259	9,720	4,021,852	57,546,912	135,594,912
17,000	196	9,916	3,240,179	60,787,091	140,381,091
18,000	255	10,171	4,462,108	65,249,199	144,935,199
19,000	185	10,356	3,425,591	68,674,790	149,272,790
20,000	184	10,540	3,590,258	72,265,048	153,425,048
21,000	155	10,695	3,189,859	75,454,907	157,417,907
22,000	159	10,854	3,419,645	78,874,552	161,242,552
23,000	138	10,992	3,108,470	81,983,022	164,921,022
24,000	149	11,141	3,503,841	85,486,863	168,454,863
25,000	123	11,264	3,021,077	88,507,940	171,857,940
26,000	95	11,359	2,427,058	90,934,998	175,148,998
27,000	110	11,469	2,918,860	93,853,858	178,336,858
28,000	96	11,565	2,648,173	96,502,031	181,426,031
29,000	82	11,647	2,335,820	98,837,851	184,416,851
30,000	95	11,742	2,803,710	101,641,561	187,321,561
31,000	83	11,825	2,534,720	104,176,281	190,139,281

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
32,000	75	11,900	2,366,320	106,542,601	192,878,601
33,000	69	11,969	2,247,148	108,789,749	195,546,749
34,000	70	12,039	2,343,160	111,132,909	198,138,909
35,000	45	12,084	1,552,423	112,685,332	200,675,332
36,000	65	12,149	2,313,534	114,998,866	203,162,866
37,000	54	12,203	1,973,310	116,972,176	205,587,176
38,000	54	12,257	2,024,493	118,996,669	207,954,669
39,000	54	12,311	2,079,690	121,076,359	210,269,359
40,000	47	12,358	1,855,820	122,932,179	212,532,179
41,000	32	12,390	1,297,380	124,229,559	214,757,559
42,000	45	12,435	1,869,493	126,099,052	216,945,052
43,000	54	12,489	2,296,680	128,395,732	219,082,732
44,000	35	12,524	1,521,540	129,917,272	221,173,272
45,000	42	12,566	1,873,540	131,790,812	223,230,812
46,000	41	12,607	1,864,790	133,655,602	225,241,602
47,000	28	12,635	1,302,360	134,957,962	227,218,962
48,000	48	12,683	2,282,880	137,240,842	229,160,842
49,000	30	12,713	1,457,740	138,698,582	231,063,582
50,000	40	12,753	1,980,549	140,679,131	232,929,131
51,000	28	12,781	1,414,710	142,093,841	234,760,841
52,000	32	12,813	1,652,062	143,745,903	236,565,903
53,000	32	12,845	1,681,860	145,427,763	238,336,763
54,000	38	12,883	2,038,080	147,465,843	240,075,843
55,000	25	12,908	1,363,648	148,829,491	241,779,491
56,000	27	12,935	1,500,440	150,329,931	243,457,931
57,000	24	12,959	1,360,260	151,690,191	245,113,191
58,000	27	12,986	1,555,569	153,245,760	246,741,760
59,000	14	13,000	820,160	154,065,920	248,347,920
60,000	22	13,022	1,312,180	155,378,100	249,938,100
61,000	15	13,037	907,880	156,285,980	251,506,980
62,000	22	13,059	1,352,820	157,638,800	253,056,800
63,000	34	13,093	2,128,070	159,766,870	254,581,870
64,000	19	13,112	1,209,900	160,976,770	256,080,770
65,000	21	13,133	1,356,280	162,333,050	257,558,050
66,000	24	13,157	1,576,655	163,909,705	259,015,705
67,000	13	13,170	866,920	164,776,625	260,452,625
68,000	22	13,192	1,488,940	166,265,565	261,873,565
69,000	19	13,211	1,304,090	167,569,655	263,272,655
70,000	14	13,225	975,230	168,544,885	264,654,885
71,000	13	13,238	917,540	169,462,425	266,022,425
72,000	19	13,257	1,361,920	170,824,345	267,376,345
73,000	18	13,275	1,309,586	172,133,931	268,712,931
74,000	15	13,290	1,103,740	173,237,671	270,029,671
75,000	11	13,301	820,810	174,058,481	271,333,481
76,000	8	13,309	605,230	174,663,711	272,627,711
77,000	15	13,324	1,149,140	175,812,851	273,910,851
78,000	13	13,337	1,007,051	176,819,902	275,177,902
79,000	10	13,347	786,970	177,606,872	276,435,872
80,000	16	13,363	1,273,660	178,880,532	277,680,532

KWH Step Report for GH1 HIT H1P H1Q
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
81,000	11	13,374	887,760	179,768,292	278,912,292
82,000	21	13,395	1,714,128	181,482,420	280,128,420
83,000	13	13,408	1,074,400	182,556,820	281,326,820
84,000	24	13,432	2,009,590	184,566,410	282,510,410
85,000	14	13,446	1,185,300	185,751,710	283,671,710
86,000	12	13,458	1,028,520	186,780,230	284,820,230
87,000	14	13,472	1,213,480	187,993,710	285,955,710
88,000	13	13,485	1,140,990	189,134,700	287,078,700
89,000	11	13,496	975,560	190,110,260	288,188,260
90,000	10	13,506	897,200	191,007,460	289,287,460
91,000	8	13,514	725,250	191,732,710	290,376,710
92,000	14	13,528	1,282,800	193,015,510	291,455,510
93,000	16	13,544	1,483,750	194,499,260	292,521,260
94,000	7	13,551	656,400	195,155,660	293,573,660
95,000	13	13,564	1,229,760	196,385,420	294,615,420
96,000	14	13,578	1,339,400	197,724,820	295,644,820
97,000	3	13,581	290,400	198,015,220	296,664,220
98,000	16	13,597	1,563,060	199,578,280	297,676,280
99,000	17	13,614	1,679,220	201,257,500	298,673,500
100,000	5	13,619	499,200	201,756,700	299,656,700
110,000	86	13,705	9,050,077	210,806,777	309,036,777
120,000	71	13,776	8,145,006	218,951,783	317,591,783
130,000	78	13,854	9,795,263	228,747,046	325,467,046
140,000	81	13,935	10,919,838	239,666,884	332,486,884
150,000	72	14,007	10,447,610	250,114,494	338,764,494
160,000	58	14,065	9,021,385	259,135,879	344,415,879
170,000	49	14,114	8,118,616	267,254,495	349,534,495
180,000	55	14,169	9,676,254	276,930,749	354,150,749
190,000	46	14,215	8,529,150	285,459,899	358,229,899
200,000	28	14,243	5,445,900	290,905,799	361,905,799
210,000	41	14,284	8,424,061	299,329,860	365,269,860
220,000	34	14,318	7,334,000	306,663,860	368,263,860
230,000	23	14,341	5,161,950	311,825,810	370,935,810
240,000	26	14,367	6,121,150	317,946,960	373,386,960
250,000	13	14,380	3,199,450	321,146,410	375,646,410
260,000	22	14,402	5,590,500	326,736,910	377,696,910
270,000	23	14,425	6,101,850	332,838,760	379,548,760
280,000	15	14,440	4,131,400	336,970,160	381,210,160
290,000	13	14,453	3,694,600	340,664,760	382,714,760
300,000	16	14,469	4,741,261	345,406,021	384,106,021
310,000	10	14,479	3,068,000	348,474,021	385,364,021
320,000	8	14,487	2,534,875	351,008,896	386,528,896
330,000	13	14,500	4,235,500	355,244,396	387,584,396
340,000	13	14,513	4,351,600	359,595,996	388,495,996
350,000	9	14,522	3,107,988	362,703,984	389,303,984
360,000	5	14,527	1,784,300	364,488,284	390,048,284
370,000	5	14,532	1,830,400	366,318,684	390,738,684
380,000	2	14,534	750,000	367,068,684	391,388,684
390,000	1	14,535	385,000	367,453,684	392,023,684

KWH Step Report for GH1 H1T H1P H1Q
 press pf15 to continue

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
400,000	8	14,543	3,169,500	370,623,184	392,623,184
410,000	5	14,548	2,024,000	372,647,184	393,147,184
420,000	6	14,554	2,488,500	375,135,684	393,615,684
430,000	4	14,558	1,703,200	376,838,884	394,038,884
440,000	3	14,561	1,310,500	378,149,384	394,429,384
450,000	2	14,563	896,000	379,045,384	394,795,384
460,000	2	14,565	911,500	379,956,884	395,136,884
470,000	4	14,569	1,857,100	381,813,984	395,443,984
480,000	2	14,571	953,000	382,766,984	395,726,984
490,000	1	14,572	482,000	383,248,984	395,988,984
510,000	4	14,576	2,007,300	385,256,284	396,476,284
530,000	3	14,579	1,575,600	386,831,884	396,901,884
540,000	1	14,580	531,000	387,362,884	397,082,884
550,000	2	14,582	1,097,200	388,460,084	397,260,084
560,000	2	14,584	1,116,000	389,576,084	397,416,084
580,000	2	14,586	1,146,300	390,722,384	397,682,384
600,000	2	14,588	1,197,600	391,919,984	397,919,984
630,000	1	14,589	626,400	392,546,384	398,216,384
640,000	3	14,592	1,902,800	394,449,184	398,289,184
660,000	2	14,594	1,317,600	395,766,784	398,406,784
670,000	1	14,595	666,000	396,432,784	398,442,784
680,000	1	14,596	678,000	397,110,784	398,470,784
690,000	1	14,597	689,474	397,800,258	398,490,258
777,600	1	14,598	777,600	398,577,858	398,577,858

KWH Step Report for GH2 H2R
 press pf15 to continue

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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
0	1,236	1,236	0	0	0
1	5	1,241	5	5	33,027
2	2	1,243	4	9	66,049
3	34	1,277	102	111	99,069
4	22	1,299	88	199	132,055
5	27	1,326	135	334	165,019
6	14	1,340	84	418	197,956
7	14	1,354	98	516	230,879
8	15	1,369	120	636	263,788
9	7	1,376	63	699	296,682
10	16	1,392	160	859	329,569
11	12	1,404	132	991	362,440
12	20	1,424	240	1,231	395,299
13	22	1,446	286	1,517	428,138
14	11	1,457	154	1,671	460,955
15	14	1,471	210	1,881	493,761
16	10	1,481	160	2,041	526,553
17	14	1,495	238	2,279	559,335
18	10	1,505	180	2,459	592,103
19	9	1,514	171	2,630	624,861
20	14	1,528	280	2,910	657,610
21	13	1,541	273	3,183	690,345
22	14	1,555	308	3,491	723,067
23	9	1,564	207	3,698	755,775
24	10	1,574	240	3,938	788,474
25	22	1,596	550	4,488	821,163
30	70	1,666	1,979	6,467	984,377
35	50	1,716	1,666	8,133	1,147,278
40	72	1,788	2,762	10,895	1,309,895
45	79	1,867	3,423	14,318	1,472,138
50	77	1,944	3,703	18,021	1,633,971
55	62	2,006	3,280	21,301	1,795,436
60	88	2,094	5,125	26,426	1,956,566
65	75	2,169	4,698	31,124	2,117,234
70	82	2,251	5,553	36,677	2,277,517
75	82	2,333	6,015	42,692	2,437,442
80	82	2,415	6,389	49,081	2,596,921
85	90	2,505	7,488	56,569	2,755,999
90	92	2,597	8,123	64,692	2,914,632
95	101	2,698	9,408	74,100	3,072,775
100	82	2,780	8,045	82,145	3,230,445
105	74	2,854	7,637	89,782	3,387,727
110	101	2,955	10,888	100,670	3,544,550
115	82	3,037	9,270	109,940	3,700,930
120	133	3,170	15,773	125,713	3,856,873
125	77	3,247	9,482	135,195	4,012,195
130	109	3,356	13,931	149,126	4,167,036
135	83	3,439	11,039	160,165	4,321,405
140	99	3,538	13,667	173,832	4,475,332

KWH Step Report for GH2 H2R
 press pf15 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
145	89	3,627	12,705	186,537	4,628,757
150	96	3,723	14,229	200,766	4,781,766
155	87	3,810	13,328	214,094	4,934,309
160	140	3,950	22,236	236,330	5,086,410
165	88	4,038	14,339	250,669	5,237,794
170	106	4,144	17,812	268,481	5,388,711
175	94	4,238	16,266	284,747	5,539,122
180	127	4,365	22,636	307,383	5,689,023
185	104	4,469	19,022	326,405	5,838,295
190	102	4,571	19,190	345,595	5,987,075
195	104	4,675	20,077	365,672	6,135,332
200	157	4,832	31,262	396,934	6,283,134
225	453	5,285	96,426	493,360	7,013,410
250	535	5,820	127,539	620,899	7,731,649
275	439	6,259	115,220	736,119	8,437,219
300	431	6,690	124,337	860,456	9,132,356
325	450	7,140	141,390	1,001,846	9,816,821
350	366	7,506	123,716	1,125,562	10,490,512
375	410	7,916	148,555	1,274,117	11,154,242
400	437	8,353	170,164	1,444,281	11,808,281
425	395	8,748	163,303	1,607,584	12,451,459
450	377	9,125	165,040	1,772,624	13,084,724
475	338	9,463	156,344	1,928,968	13,708,968
500	439	9,902	213,676	2,142,644	14,323,144
525	376	10,278	193,004	2,335,648	14,927,773
550	343	10,621	184,504	2,520,152	15,523,252
575	353	10,974	198,854	2,719,006	16,110,181
600	326	11,300	192,142	2,911,148	16,688,948
625	299	11,599	183,060	3,094,208	17,259,208
650	372	11,971	237,576	3,331,784	17,821,584
675	319	12,290	211,338	3,543,122	18,374,897
700	327	12,617	224,838	3,767,960	18,920,160
725	350	12,967	249,854	4,017,814	19,457,414
750	342	13,309	252,575	4,270,389	19,985,889
775	331	13,640	252,557	4,522,946	20,505,771
800	387	14,027	305,300	4,828,246	21,017,046
825	288	14,315	234,149	5,062,395	21,519,495
850	307	14,622	257,113	5,319,508	22,014,358
875	287	14,909	247,620	5,567,128	22,501,878
900	334	15,243	296,637	5,863,765	22,981,765
925	305	15,548	278,797	6,142,562	23,453,937
950	306	15,854	286,892	6,429,454	23,918,004
975	304	16,158	292,728	6,722,182	24,374,557
1,000	308	16,466	304,765	7,026,947	24,823,947
1,100	1,106	17,572	1,159,582	8,186,529	26,546,629
1,200	1,008	18,580	1,158,721	9,345,250	28,164,850
1,300	828	19,408	1,036,896	10,382,146	29,693,646
1,400	745	20,153	1,006,475	11,388,621	31,142,621
1,500	693	20,846	1,005,782	12,394,403	32,519,903

KWH Step Report for GH2 H2R
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
1,600	602	21,448	933,725	13,328,128	33,832,128
1,700	575	22,023	949,520	14,277,648	35,085,648
1,800	519	22,542	908,469	15,186,117	36,283,917
1,900	479	23,021	886,301	16,072,418	37,432,218
2,000	506	23,527	987,838	17,060,256	38,532,256
2,100	418	23,945	857,887	17,918,143	39,585,943
2,200	382	24,327	821,988	18,740,131	40,599,331
2,300	369	24,696	830,431	19,570,562	41,574,662
2,400	368	25,064	867,136	20,437,698	42,515,298
2,500	326	25,390	800,435	21,238,133	43,420,633
2,600	314	25,704	801,440	22,039,573	44,292,973
2,700	276	25,980	731,852	22,771,425	45,135,525
2,800	313	26,293	861,152	23,632,577	45,948,577
2,900	288	26,581	822,728	24,455,305	46,733,105
3,000	301	26,882	889,114	25,344,419	47,487,419
3,100	240	27,122	732,588	26,077,007	48,214,107
3,200	228	27,350	719,008	26,796,015	48,917,615
3,300	223	27,573	725,984	27,521,999	49,598,999
3,400	199	27,772	667,382	28,189,381	50,258,781
3,500	199	27,971	686,482	28,875,863	50,897,863
3,600	240	28,211	852,950	29,728,813	51,516,013
3,700	170	28,381	621,021	30,349,834	52,113,234
3,800	205	28,586	769,320	31,119,154	52,691,754
3,900	173	28,759	666,394	31,785,548	53,251,148
4,000	189	28,948	747,640	32,533,188	53,793,188
4,100	144	29,092	583,904	33,117,092	54,318,192
4,200	156	29,248	648,784	33,765,876	54,828,876
4,300	161	29,409	684,638	34,450,514	55,322,714
4,400	152	29,561	662,041	35,112,555	55,801,355
4,500	160	29,721	712,947	35,825,502	56,264,502
4,600	147	29,868	668,564	36,494,066	56,711,066
4,700	138	30,006	641,417	37,135,483	57,143,383
4,800	118	30,124	560,021	37,695,504	57,562,704
4,900	116	30,240	563,682	38,259,186	57,971,886
5,000	117	30,357	579,217	38,838,403	58,368,403
5,100	113	30,470	571,341	39,409,744	58,754,044
5,200	133	30,603	685,626	40,095,370	59,127,370
5,300	91	30,694	477,970	40,573,340	59,489,040
5,400	100	30,794	535,378	41,108,718	59,841,318
5,500	93	30,887	506,925	41,615,643	60,183,643
5,600	89	30,976	494,125	42,109,768	60,516,968
5,700	79	31,055	447,081	42,556,849	60,842,449
5,800	73	31,128	420,140	42,976,989	61,159,989
5,900	59	31,187	345,545	43,322,534	61,470,934
6,000	83	31,270	494,816	43,817,350	61,775,350
6,100	59	31,329	357,585	44,174,935	62,072,335
6,200	80	31,409	492,288	44,667,223	62,362,023
6,300	51	31,460	318,951	44,986,174	62,645,074
6,400	66	31,526	419,279	45,405,453	62,922,253

KWH Step Report for GH2 H2R
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
6,500	61	31,587	394,038	45,799,491	63,193,491
6,600	61	31,648	399,946	46,199,437	63,458,437
6,700	60	31,708	398,999	46,598,436	63,716,936
6,800	67	31,775	452,607	47,051,043	63,969,443
6,900	47	31,822	322,547	47,373,590	64,216,490
7,000	52	31,874	361,394	47,734,984	64,457,984
7,100	49	31,923	345,703	48,080,687	64,694,687
7,200	62	31,985	443,522	48,524,209	64,925,809
7,300	34	32,019	246,788	48,770,997	65,152,197
7,400	62	32,081	456,211	49,227,208	65,374,008
7,500	40	32,121	297,989	49,525,197	65,590,197
7,600	52	32,173	392,512	49,917,709	65,801,709
7,700	43	32,216	329,240	50,246,949	66,008,849
7,800	31	32,247	240,684	50,487,633	66,212,433
7,900	34	32,281	266,939	50,754,572	66,412,372
8,000	46	32,327	365,919	51,120,491	66,608,491
8,100	27	32,354	217,510	51,338,001	66,800,901
8,200	39	32,393	317,836	51,655,837	66,989,837
8,300	35	32,428	288,868	51,944,705	67,175,205
8,400	49	32,477	409,604	52,354,309	67,356,709
8,500	26	32,503	219,920	52,574,229	67,534,229
8,600	33	32,536	282,238	52,856,467	67,708,667
8,700	25	32,561	216,568	53,073,035	67,880,435
8,800	27	32,588	236,485	53,309,520	68,049,520
8,900	26	32,614	230,413	53,539,933	68,216,033
9,000	26	32,640	232,761	53,772,694	68,379,694
9,100	20	32,660	180,960	53,953,654	68,540,954
9,200	29	32,689	265,655	54,219,309	68,700,109
9,300	25	32,714	231,378	54,450,687	68,856,387
9,400	24	32,738	224,606	54,675,293	69,010,293
9,500	13	32,751	123,008	54,798,301	69,162,301
9,600	29	32,780	277,127	55,075,428	69,312,228
9,700	9	32,789	86,961	55,162,389	69,460,189
9,800	25	32,814	243,773	55,406,162	69,606,362
9,900	23	32,837	226,538	55,632,700	69,750,100
10,000	25	32,862	248,982	55,881,682	69,891,682
11,000	218	33,080	2,291,993	58,173,675	71,186,675
12,000	138	33,218	1,587,519	59,761,194	72,301,194
13,000	105	33,323	1,313,685	61,074,879	73,294,879
14,000	116	33,439	1,563,481	62,638,360	74,174,360
15,000	75	33,514	1,085,310	63,723,670	74,958,670
16,000	81	33,595	1,254,078	64,977,748	75,665,748
17,000	73	33,668	1,204,370	66,182,118	76,297,118
18,000	49	33,717	856,656	67,038,774	76,866,774
19,000	51	33,768	943,907	67,982,681	77,387,681
20,000	47	33,815	917,853	68,900,534	77,860,534
21,000	35	33,850	720,108	69,620,642	78,293,642
22,000	31	33,881	667,434	70,288,076	78,692,076
23,000	17	33,898	382,395	70,670,471	79,065,471

KWH Step Report for GH2 H2R
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
24,000	23	33,921	540,689	71,211,160	79,419,160
25,000	22	33,943	541,860	71,753,020	79,753,020
26,000	19	33,962	483,261	72,236,281	80,062,281
27,000	18	33,980	476,570	72,712,851	80,353,851
28,000	20	34,000	552,280	73,265,131	80,629,131
29,000	11	34,011	314,196	73,579,327	80,887,327
30,000	11	34,022	325,389	73,904,716	81,134,716
31,000	13	34,035	396,342	74,301,058	81,369,058
32,000	11	34,046	345,821	74,646,879	81,590,879
33,000	16	34,062	521,200	75,168,079	81,801,079
34,000	12	34,074	405,072	75,573,151	81,999,151
35,000	4	34,078	138,280	75,711,431	82,186,431
36,000	13	34,091	461,790	76,173,221	82,365,221
37,000	13	34,104	473,886	76,647,107	82,530,107
38,000	6	34,110	223,900	76,871,007	82,685,007
39,000	6	34,116	230,760	77,101,767	82,834,767
40,000	4	34,120	158,940	77,260,707	82,980,707
41,000	6	34,126	242,960	77,503,667	83,120,667
42,000	4	34,130	166,600	77,670,267	83,256,267
43,000	3	34,133	128,080	77,798,347	83,388,347
45,000	7	34,140	312,080	78,110,427	83,645,427
46,000	6	34,146	273,580	78,384,007	83,766,007
47,000	5	34,151	231,880	78,615,887	83,879,887
48,000	3	34,154	142,780	78,758,667	83,990,667
49,000	6	34,160	292,140	79,050,807	84,097,807
50,000	4	34,164	197,720	79,248,527	84,198,527
51,000	6	34,170	305,080	79,553,607	84,296,607
52,000	1	34,171	51,200	79,604,807	84,388,807
53,000	2	34,173	105,000	79,709,807	84,479,807
54,000	5	34,178	267,300	79,977,107	84,567,107
55,000	1	34,179	55,000	80,032,107	84,652,107
56,000	4	34,183	222,200	80,254,307	84,734,307
57,000	3	34,186	169,740	80,424,047	84,813,047
58,000	1	34,187	57,440	80,481,487	84,889,487
59,000	3	34,190	175,720	80,657,207	84,964,207
60,000	3	34,193	177,940	80,835,147	85,035,147
61,000	2	34,195	121,000	80,956,147	85,104,147
62,000	3	34,198	184,240	81,140,387	85,170,387
63,000	3	34,201	186,660	81,327,047	85,233,047
64,000	1	34,202	63,840	81,390,887	85,294,887
65,000	1	34,203	64,080	81,454,967	85,354,967
67,000	2	34,205	133,000	81,587,967	85,473,967
68,000	3	34,208	203,440	81,791,407	85,531,407
69,000	2	34,210	137,280	81,928,687	85,585,687
71,000	3	34,213	211,220	82,139,907	85,689,907
72,000	4	34,217	285,010	82,424,917	85,736,917
74,000	1	34,218	73,500	82,498,417	85,828,417
75,000	1	34,219	74,250	82,572,667	85,872,667
76,000	1	34,220	75,040	82,647,707	85,915,707

KWH Step Report for GH2 H2R
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KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
78,000	1	34,221	77,760	82,725,467	86,001,467
80,000	1	34,222	79,680	82,805,147	86,085,147
81,000	2	34,224	161,360	82,966,507	86,125,507
82,000	1	34,225	81,360	83,047,867	86,163,867
83,000	1	34,226	82,560	83,130,427	86,201,427
84,000	2	34,228	167,040	83,297,467	86,237,467
85,000	1	34,229	84,960	83,382,427	86,272,427
87,000	1	34,230	86,640	83,469,067	86,340,067
88,000	1	34,231	87,600	83,556,667	86,372,667
90,000	1	34,232	89,400	83,646,067	86,436,067
91,000	1	34,233	90,300	83,736,367	86,466,367
92,000	2	34,235	183,000	83,919,367	86,495,367
93,000	2	34,237	185,040	84,104,407	86,522,407
96,000	3	34,240	287,280	84,391,687	86,599,687
97,000	1	34,241	96,750	84,488,437	86,622,437
98,000	1	34,242	97,200	84,585,637	86,643,637
99,000	1	34,243	98,240	84,683,877	86,663,877
110,000	4	34,247	426,750	85,110,627	86,870,627
120,000	7	34,254	809,520	85,920,147	87,000,147
130,000	3	34,257	374,760	86,294,907	87,074,907
140,000	2	34,259	263,820	86,558,727	87,118,727
150,000	1	34,260	150,000	86,708,727	87,158,727
160,000	1	34,261	151,200	86,859,927	87,179,927
170,000	1	34,262	160,400	87,020,327	87,190,327
170,250	1	34,263	170,250	87,190,577	87,190,577

KWH Step Report for IS1
 press pfl5 to continue

14:47 Friday, March 21, 1997

KWH Step	# Bills	# Bills Cumulative	# KWH	# KWH Cumulative	KWH pass thru Cum
4,600	1	1	4,560	4,560	225,360
5,600	1	2	5,520	10,080	273,280
6,300	1	3	6,240	16,320	306,120
7,200	2	5	14,400	30,720	347,520
8,700	1	6	8,700	39,420	413,520
9,300	1	7	9,300	48,720	439,320
9,600	1	8	9,600	58,320	451,920
9,900	1	9	9,900	68,220	464,220
11,000	1	10	10,500	78,720	507,720
24,000	1	11	23,040	101,760	1,013,760
26,000	1	12	25,200	126,960	1,088,960
27,000	1	13	26,640	153,600	1,125,600
28,000	1	14	27,120	180,720	1,160,720
29,000	1	15	28,400	209,120	1,195,120
30,000	2	17	59,040	268,160	1,228,160
33,000	1	18	32,800	300,960	1,323,960
34,000	1	19	33,360	334,320	1,354,320
35,000	1	20	34,800	369,120	1,384,120
49,000	1	21	48,720	417,840	1,789,840
54,000	1	22	53,922	471,762	1,929,762
60,000	1	23	60,000	531,762	2,091,762
64,000	1	24	63,600	595,362	2,195,362
82,000	1	25	81,039	676,401	2,644,401
84,000	1	26	84,000	760,401	2,692,401
85,000	1	27	84,800	845,201	2,715,201
88,000	1	28	87,120	932,321	2,780,321
92,000	1	29	91,920	1,024,241	2,864,241
94,000	1	30	93,023	1,117,264	2,903,264
95,000	1	31	94,400	1,211,664	2,921,664
100,000	1	32	99,200	1,310,864	3,010,864
110,000	5	37	527,200	1,838,064	3,158,064
130,000	3	40	372,960	2,211,024	3,381,024
140,000	3	43	408,000	2,619,024	3,459,024
220,000	1	44	210,429	2,829,453	3,929,453
260,000	1	45	252,600	3,082,053	4,122,053
340,000	2	47	678,000	3,760,053	4,440,053
350,000	1	48	349,500	4,109,553	4,459,553
374,700	1	49	374,700	4,484,253	4,484,253

PENNSYLVANIA POWER & LIGHT COMPANY

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APPLICANT: PENNSYLVANIA POWER & LIGHT COMPANY
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PENNSYLVANIA POWER & LIGHT COMPANY

Exhibits SFT 1-12

Witness: Susan F. Tierney, Ph.D.

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RESUME

SUSAN F. TIERNEY

The Economic Resource Group, Inc.
One Mifflin Place
Cambridge, MA 02138
(617) 491-4900
(617) 520-0229 (direct)

PROFESSIONAL EXPERIENCE

The Economics Resource Group, Inc., Cambridge, MA

Principal, March 1997 to present

Managing Consultant, November 1995 to February 1997

Consultant to business, organizations and policy makers on energy markets, environmental strategy and economic policy in the U.S. and other countries. Performs economic analyses and gives strategic advice and regulatory assistance to clients in the independent power, electric utility, natural gas, and telecommunications industries. Presents speeches on electric industry restructuring, mergers and acquisitions, natural gas markets, environmental policy, and alternative fuels and technologies.

U.S. Department of Energy, Washington, DC

Assistant Secretary for Policy, May 1993 - July 1995

Appointed by President William J. Clinton; confirmed by U.S. Senate

Responsible for strategic planning and budgeting for DOE (\$17 billion federal agency), and for policy analysis, policy development and advice on domestic and international energy policy, environmental policy, international trade and export promotion policy, science and technology policy, global climate change policy, and national security policy. Managed staff of 225, with \$30 million direct budget.

Specific Accomplishments: DOE Budget Priorities (1993/1994/1995/1996); DOE Strategic Plan (1994); Partnership for a New Generation of Vehicles (1993/94); climate Change Action Plan (1993); Federal Fleet Conversion Task Force (1993); Domestic Natural Gas & Oil Initiative (1994); U.S. Joint Implementation Initiative (1994); Presidential Advisory Committee on Personal Motor Vehicles (1994/95); U.S. Oil Import Study (1995); Sustainable Energy Plan (1995). Participated in Trade Missions to China, Mexico, and Pakistan. Led U.S. bilateral consultations (including policy advice on energy regulation and financing) with China, India, Indonesia, Canada, and Mexico.

Commonwealth of Massachusetts

Secretary of Environmental Affairs, January 1991 - March 1993

Appointed by Governor William F. Weld

Cabinet-level position with responsibility for five agencies, with combined budgets of \$300 million: Department of Environmental Protection; Department of Environmental Management; Department of Fisheries, Wildlife and Environmental Law Enforcement; Department of Food and Agriculture; and Metropolitan District Commission. Chairman of the Board, Massachusetts Water Resources Authority

Specific Involvement in Boston Harbor Clean Up; Conservation Land Acquisition; Clean Air Act Implementation; Emissions Trading Regulations; Environmental Impact Reviews; Energy Facility Siting; Agency Downsizing; Privatization; Quality Management; Capital Improvements; gubernatorial trade mission to Hong Kong, Japan, South Korea, and Taiwan.

Massachusetts Department of Public Utilities, Boston, MA

Commissioner, April 1988 - January 1991, Appointed by Governor Michael S. Dukakis

Regulator of electric, gas, telecommunications and water companies in the state. Decided cases on consumer rates; cost recovery of utility investments; deregulation; PURPA contracts; competitive bidding policy; energy efficiency investments; pricing reform policy; utility integrated resource plans; gas transportation regulations.

Massachusetts Energy Facilities Siting Council, Commonwealth of Massachusetts

Executive Director, October 1984 - April 1988

Executive Director for ten-person state agency. Managed twenty person staff. Responsible for reviewing and approving proposals to construct power plants, transmission lines, gas pipelines, and forecasts of energy supply and demand.

Executive Office of Energy Resources, Commonwealth of Massachusetts

Senior Economist, May 1983 - October 1984

Massachusetts Energy Facilities Siting Council, Commonwealth of Massachusetts

Policy Analyst, October 1982 - May 1983

National Academy of Sciences, Washington, DC

Researcher, January 1982 - June 1982

University of California at Irvine, Irvine, CA

Assistant Professor, September 1978 - January 1982

Taught courses and conducted research on public policy analysis and planning.

EDUCATION

Cornell University, Department of City & Regional Planning, Ithaca, New York
Ph.D. in public policy analysis and planning, 1980
Dissertation on congressional policy making on energy policy issues
Masters of Regional Planning in public policy analysis and planning, 1976

Scripps College, Claremont, California

B.A. in art history, 1973

Studied political science at L'Institut d'Etudes Politiques, Paris, France, Junior Year
(1971- 1972)

SELECTED CONSULTING EXPERIENCE

US Generating Company

Provided analysis of the economic, reliability and environmental benefits to the host state and region of a new merchant power generation facility: the 360-megawatt Millennium project. Provided expert witness testimony on the results of this analysis to the Massachusetts Energy Facility Siting Board. (1996 to present)

Major diversified electric equipment company

Provided strategic advice and analysis on market opportunities and risk in various regions of the U.S. electric industry, under numerous restructuring scenarios. (1996 to present)

Pennsylvania Power & Light Company

Provided strategic guidance, economic and policy analysis, and regulatory for electric utility company as it developed and proposed its plan for restructuring its company for retail competition. Issues and tasks included electricity market price estimation, rate design, revenue analysis, consumer protection, corporate structure, and regulatory strategy. Provided expert witness testimony on rate design policy issues. (1996 to present)

Major western coal company

Analysis of western states' electric industry restructuring policies and market prices for power in the Western Systems Coordinating Council area. (1996 to present)

Massachusetts Division of Energy Resources

Analyzed Boston Gas Company's proposal for unbundling its retail service, its proposal for performance-based rates, and its plan for departing the merchant function. Provided analytic, policy and negotiation support on gas industry restructuring issues in a variety of cases. (1996 to present)

Massachusetts Water Resources Authority Advisory Board

Analyzed opportunities for the MWRA, a public authority with major energy-using and -producing assets, to position itself beneficially as a participant in a restructured retail electricity market in New England. (1996 to present)

Coalition of marketers and independent power producers

Analyzed a state public utility commission's proposed rules for restructuring the electric industry, from the point of view of whether the proposed structure would assure a workably competitive market. Examined the regional power pool's proposal for an independent system operator. (1996-1997)

Major independent power producer

Analyzed market opportunities and risks for merchant plant development in a region of the U.S. (1996)

Major independent power producer

Analyzed the expected market price of power in two regions of the U.S. electricity markets. Presented results to company board of directors. (1996)

MCI, Inc.

Provided strategic regulatory advice in local competition proceeding before a state public utility commission. Provided testimony on local competition policy issues in public utility commission proceedings in Massachusetts and New York. (1996)

Group of municipal electric companies in New York state

Provided expert witness testimony on cost allocation issues in court litigation on wholesale power contracts. (1996)

Intercontinental Energy Corporation

Provided strategic guidance, analytic support, and regulatory support for the company, a major independent power producer, as it developed its position in the state's electric industry restructuring proceeding. Issues involved regional industry structure (including independent system operator proposals), stranded cost recovery policy, stranded cost calculation methodologies, horizontal and vertical market power issues, environmental protection, and securitization. Provided expert witness testimony in state retail restructuring proceedings in Massachusetts and New Jersey. (1995 to present)

Nextel Communications

Provided economic and policy analysis on barriers to entry in the local commercial mobile radio service market in region. Provided expert witness testimony before the Massachusetts Department of Public Utilities. (1995 to present)

Various private electric companies, state legislative committees, gas companies, electric asset investor groups

Provided workshops and presentations on changes underway in the electric industry, with focus on issues of strategic importance to these particular decision makers and stakeholders. (1995 to present)

Arizona Public Service Company

Provided expert witness testimony on regulatory reforms necessary to align traditional existing utility planning proceedings with competitive retail markets as being proposed in the state. (1995)

TESTIMONY ON BEHALF OF CLIENTS

Nextel Communications

Before the *Massachusetts Department of Public Utilities, Docket 95-59-B*, on telecommunications facility matters. January 1997.

MCI Communications, Inc.

Before the *New York Public Service Corporation*, in the NYNEX interconnection docket. Opening up the Local Exchange Market to Competition: Common Themes with Retail Competition in Electricity and Natural Gas Industries. October 1996.

Before the *Massachusetts Department of Public Utilities*, in the NYNEX interconnection docket. Opening up the Local Exchange Market to Competition: Common Themes with Retail Competition in Electricity and Natural Gas Industries. August 30, 1996.

Arizona Public Service Company

Before the *Arizona Corporation Commission, Docket No. U-0000-95-506*, on integrated resource planning and competition. October 1996.

US Generating Company

Before the *Massachusetts Energy Facilities Siting Board, Docket 96-4*, on an application to construct a new Millennium power generating facility. October 1996.

Intercontinental Energy Corporation

Before the *New Jersey Board of Public Utilities, No. EX94120585Y*, on the Energy Master Plan Phase I Proceeding to Investigate the Future Structure of the Electric Power Industry. August 1996.

Before the *Massachusetts Department of Public Utilities, DPU 96-100*, on the Investigation Commencing a Notice of Inquiry/Rulemaking for Electric Industry Restructuring Proceedings. July 1996.

TESTIMONY BEFORE CONGRESS ON BEHALF OF DEPARTMENT OF ENERGY

Before the *Subcommittee on Energy Production and Regulation, Committee on Energy and Natural Resources, U.S. Senate, regarding S. 708, The Electric Utility Ratepayer Act, June 6, 1995.*

Before the *Subcommittee on Energy and Power, Committee on Commerce, U.S. House of Representatives, regarding the Berlin Conference of the Parties of the Climate Change Convention, May 19, 1995.*

Before the *Committee on Foreign Relations, U.S. Senate, on the outlook for U.S. oil and gas production, imports, and energy security, March 27, 1995.*

Before the *Committee on Interior Appropriations, U.S. House of Representatives, regarding the Department of Energy budget, March 23, 1995.*

Before the *Subcommittee on Energy and Power, Committee on Commerce, U.S. House of Representatives, regarding the international climate change negotiations, March 21, 1995.*

Before the *Subcommittee on Energy and Power, Committee on Energy and Commerce, U.S. House of Representatives, regarding competition in the electric industry following the enactment of the Energy Policy Act of 1992, July 13, 1994.*

Before the *Committee on Commerce and Energy, U.S. House of Representatives, on reformulated gasoline, June 22, 1994.*

Before the *Subcommittee on Clean Air and Nuclear Regulation, Committee on Environment and Public Works, U.S. Senate, regarding the U.S. Climate Change Action Plan, April 14, 1994.*

Before the *Subcommittee on Energy and Power, Committee on Energy and Commerce, U.S. House of Representatives, regarding the adequacy of the supply of electricity and natural gas during the January 1994 cold wave, February 9, 1994.*

Before the *Committee on Science, Space and Technology, U.S. House of Representatives regarding the U.S. Climate Change Action Plan and Assessment, November 16, 1993.*

Before the *Subcommittee on Oversight and Investigation, Committee on Energy and Commerce, U.S. House of Representatives, regarding the federal government's programs to promote the use of alternative motor fuels in transportation, October 29, 1993.*

Before the *Subcommittee on Energy and Power, Committee on Energy and Commerce, U.S. House of Representatives, regarding the U.S. Climate Change Action Plan, October 27, 1993.*

Before the *Subcommittee on Health and the Environment, Committee on Energy and Commerce, U.S. House of Representatives*, regarding U.S. policies for reducing greenhouse gas emissions, August 4, 1993.

Before the *Subcommittee on Rural Enterprises, Exports and the Environment, Committee on Small Business, U.S. House of Representatives*, on U.S. export promotion policy, July 26, 1993.

Before the *Subcommittee on Energy and Power, Committee on Energy and Commerce, U.S. House of Representatives*, regarding U.S. policy on global climate change, May 26, 1993.

Before the *Committee on Energy, U.S. Senate*, on the confirmation of Susan Fallows Tierney as Assistant Secretary of Domestic and International Energy Policy at the Department of Energy, May 4, 1993.

TESTIMONY BEFORE REGULATORY AGENCIES ON BEHALF OF DEPARTMENT OF ENERGY

Before the *Massachusetts Department of Public Utilities, DPU 95-30*, Investigation on electric industry restructuring, April 24, 1995.

Before the *Federal Energy Regulatory Commission, RM94-20-000*, Inquiry concerning Alternative Power Pooling Institutions Under the Federal Power Act, March 2, 1995.

Before the *Joint Oversight Committee on Lowering the Cost of Electric Service, California Legislature*, December 9, 1994.

Before the *California Public Utilities Commission, R.94-04-031, I.94-04-032*, full panel hearing on its investigation and rulemaking on the Commission's Proposed Policies Governing Restructuring California's Electric Services Industry and Reforming Regulation, September 16, 1994 (August 24, 1994 filing).

Before the *California Public Utilities Commission, R.94-04-031*, full panel hearing on its proposed rulemaking on the Commission's Proposed Policies Governing Restructuring California's Electric Services Industry and Reforming Regulation, August 4, 1994 (July 26, 1994 filing).

Before the *California Public Utilities Commission, R.94-04-031*, on its investigation and rulemaking on the Commission's Proposed Policies Governing Restructuring California's Electric Services Industry and Reforming Regulation, June 8, 1994.

Before the *Federal Energy Regulatory Commission, RM93-19-000*, on Electric Transmission Pricing, April 8, 1994.

TESTIMONY ON BEHALF OF THE COMMONWEALTH OF MASSACHUSETTS

Before the *Massachusetts Legislature* on S. 989, an Act relative to Motor Vehicle Laws and Motor Vehicle Emission Standards, March 16, 1992.

Before various *Massachusetts legislative committees* on environmental, energy, energy facilities siting, and budget matters, 1991-1993.

Before the *Federal Energy Regulatory Commission, EC90-10-000*, on Northeast Utilities Service Corporation's proposed merger with Public Service Company of New Hampshire, July 1990.

Before the *U.S. Department of Energy*, regarding the National Energy Strategy: "Energy and Productivity—A Northeast Perspective," Providence, Rhode Island, December 1, 1989.

Before the *Massachusetts Department of Public Utilities*, in its investigation of 1987 reliability problems in New England, Spring 1988.

Before the *Federal Energy Regulatory Commission*, on transmission policy, 1990.

SELECTED SPEECHES

"Are Regulators Ready for Competition? Realigning Regulation with Markets." Electric Utility Business Environment Conference, Denver, Colorado, March 18, 1997.

"Electric Industry Restructuring—Selected Public Policy Issues: Market Power, Stranded Benefits, Consumer Protection Issues." Presentation to the Maine Legislature's Utilities and Energy Committee, February 19, 1997.

"Competition in the Electric Industry: A Primer for Legislators." Presentation to the Vermont Legislature's Special Joint Committee Meeting on Electric Industry Restructuring, December 20, 1996.

"Competition in the Electric Industry: Upsides and Downsides." Presentation to the Connecticut Legislature's special session, December 5, 1996.

"Electric Industry Update: What's Happening?" Presentation to the Northeast Public Power Association, Durham, New Hampshire, November 21, 1996.

"Unbundling and Competition: Policy, Legal, Financial, and Technical Issues for Electric Companies." Retail Competition Conference, Denver, Colorado, November 7, 1996.

"Preparing for Competitive Power in California: What Will WEPEX Electricity Sell For?" Infocast Conference, San Francisco, California, June 10-11, 1996.

"Electric Industry Update: Where Are We Headed?" National Conference of State Legislatures, Legislators Forum, Durham, New Hampshire, June 7, 1996.

"Electric Industry Restructuring: Implications for Demand-Side Management." National Association of State Energy Officials, Boston, Massachusetts, May 3, 1996.

"Electric Industry Restructuring: Functional Unbundling and Merger Prospects." Mergers and Unbundling: Countertrends in Electric Restructuring," Denver, Colorado, March 20, 1996.

"Renewing the Vision: True Costs of Business as Usual." RENEW '96 Conference, Boston, Massachusetts, March 6, 1996.

"Regulators and the New Competitive Paradigm." Harvard Electricity Policy Group Annual Plenary Meeting, Dallas, Texas, January 28, 1996.

"Educating Regulators Through the Deregulatory Process." *The Energy Daily's* 21st Annual Conference, Panel on Federal and State Policy for Electric Industry Restructuring, San Diego, California, December 12, 1995.

"Environmental Comparability: Designing Clean and Efficient Electric Generation Markets." The Third Annual DOE/NARUC National Electricity Forum, Panel on Mechanisms for Dealing with Stranded Benefits, Washington, DC, December 4, 1995.

"The View from Washington: Energy Policy and Politics." Boston Bar Association, October 20, 1995.

"National Energy Policy." International Association of Energy Economists/New England Chapter, Cambridge, Massachusetts, October 19, 1995.

Keynote Address, "Primer on Electric Industry Restructuring Issues and Trends." National Council of State Legislatures, Teleconference on Electric Industry Restructuring, Boston, Massachusetts, September 1995.

Keynote Address, "Electric Industry Restructuring: Defining the Public's Interest." NARUC/DOE/NACCEI Conference on Competition and The Public Interest: Addressing Strandable Benefits and Strandable Costs, Gatlinburg, Tennessee, September 11, 1995.

"Economics of Global Climate Change Policy." International Association for Energy Economists 18th International Conference, Washington, DC, July 7, 1995.

Keynote Address, "Engineering—Revolutionizing Our Lives." The Society of Women Engineers National Conference, Boston, Massachusetts, June 28, 1995.

Keynote Address, "Opportunities in African Power Generation: A Business Briefing for Industry and Investment Executives." U.S. Trade and Development Agency, Baltimore, Maryland, June 21, 1995.

Keynote Address, "Outlook for Greater Customer Choice in the Electric Services Industry." University of Wisconsin Conference on Technological Foundations for Customer Choice in the Electric Power Industry, Washington, DC, June 1, 1995.

"Energy Policy and the New Political Alignment." EXNET Spring Conference on Energy, Washington, DC, May 15, 1995.

"India Power Development." The Asia Society, New York, New York, April 9, 1995.

Dinner Speaker, "Critical Issues: The Nation's Energy Policy." Massachusetts Institute of Technology, Center for Energy and Environment Workshop, Cambridge, Massachusetts, April 6, 1995.

"Alternative Vehicle Futures." Natural Gas Vehicle Conference, Houston, Texas, March 8, 1995.

"Promoting Natural Gas Markets." Fourth Annual NARUC/DOE Natural Gas Conference, Orlando, Florida, February 13, 1995.

"DOE and the New Electric Industry." Utility Spotlight Conference, Washington, DC, January 12, 1995.

"Regulation of Private Power: Lessons from the U.S. Experience." Annual Meeting of the Confederation of Indian Industries, New Delhi, India, January 9, 1995.

"Fueling a Competitive Economy: The Role of Alternative Fuel Vehicles." Twelfth International Electric Vehicle Symposium, Anaheim, California, December 5, 1994.

"Deregulation of the Electric Industry: How Will It Cope?" Federal Energy Bar Association Mid-Year Meeting, Washington, DC, November 17, 1994.

"The Energy Game Plan: Reflections on the Administration's Energy Policy." NARUC Annual Convention and Regulatory Symposium, Reno, Nevada, November 16, 1994.

Keynote Address, "What Are the Environmental Stakes in Restructuring?" U.S. Environmental Protection Agency/Western States Air Resource Council Conference on Environmental Impacts of Electric Utility Restructuring in the West, Reno, Nevada, October 20, 1994.

"Where Do We Go from Here?" Eighth Annual Harvard University Northeast Electric Utility Policy Executive Session, Newport, Rhode Island, October 7, 1994.

"U.S. Chinese Collaboration for Sustainable Development." Tulane University Conference on US/Chinese Cooperation in Energy and the Environment, New Orleans, Louisiana, July 11, 1994.

"Where Does the National Interest Lie in the Electric Industry Restructuring Debate?" NARUC Energy Conservation Committee Retreat, Whitefish, Montana, May 18-20, 1994.

"State/Federal Partnership to Optimize Gas Use." NARUC/DOE Conference on Natural Gas Use, Nashville, Tennessee, February 14, 1994.

"If We Don't Know Where We're Going, How Will We Know If We Got There?" NARUC Annual Meeting, New York, New York, November 17, 1993.

"U.S. Climate Change Policies." Symposium on Transatlantic Environmental Policies, The European Institute, Washington, DC, November 1993.

"The Clinton Administration's Policy on Natural Gas." North American Natural Gas Summit, Washington, DC, October 21, 1993.

"Utilities/Industrial Customers: Collaboration or Confrontation?" ELCON Annual Seminar on Electricity Issues, Washington, DC, October 14, 1993.

Keynote Address, "Renewable Energy Policy." NARUC Renewables Conference, Savannah, Georgia, October 4, 1993.

"Power Generation Choices: Costs, Risks and Externalities." OECD International Symposium on Power Generation, Washington, DC, September 23, 1993.

"Incentive Regulation vs. Command and Control in Environmental Management." Energy/Environment Session, 1993 Industry Summit of the World Economic Forum, Cambridge, Massachusetts, September 9-12, 1993.

"Policies to Promote Sustainable Development." Conference on State Strategies for Sustainable Development/From Rio to the Capitols, Louisville, Kentucky, May 25, 1993.

"Strategic Planning Under the Clean Air Act Amendments." New England Cogeneration Association Conference on the Clean Air Act, Cambridge, Massachusetts, March 19, 1993.

"The Economy, Consumers and the Environment." Annual Symposium, Program for the Study of Public Regulation and the Environment, Augusta, Maine, January 22, 1993.

"Environmental Offsets and Emissions Reduction Trading in the Post-DPU 91-131 Era." NARUC Environmental Externalities Conference, Portland, Maine, December 18, 1992.

"Clearing The Air: Shaping the State's Response." Northeast States for Coordinated Air Use Management Conference on the Clean Air Act of 1990, Boston, Massachusetts, October 26, 1992.

"Alternative Fuel Vehicles." Northeast Sustainable Energy Association Conference on Electric Vehicles, Boston, Massachusetts, October 10, 1992.

"Least Cost Environmental Planning: NO_x and Ozone." Sixth Annual Harvard University Executive Session on Northeast Electric Utility Policy, Cooperstown, New York, October 1, 1992.

"Environmental Mandates: The Utility Regulators' Responsibility." New England Conference of Public Utilities Commissioners 45th Annual Symposium, Chatham, Massachusetts, June 10, 1992.

"Clean Energy Policy." EPA Conference on Northeast Region Green Initiative, Boston, Massachusetts, May 11, 1992.

"Complying with the Clean Air Act: What Must Massachusetts Do?" New England Environmental Expo, Boston, Massachusetts, April 30, 1992.

"Massachusetts Recovery: New Directions." Urban Land Institute Conference, Boston, Massachusetts, April 14, 1992.

"Environmental Innovation and the New England Economy." Boston University Distinguished Speaker Series, Boston, Massachusetts, April 9, 1992.

"Environmental Impacts of the Big Dig." New England Environmental Conference, Tufts University, Medford, Massachusetts, March 21, 1992.

Dinner Address, "Regional Air Quality Issues in the Electric Industry." Forum on Regional Coordination and Environmental Externalities, Nashua, New Hampshire, March 9, 1992.

Keynote Speaker, "Back to Basics." Massachusetts Environmental Education Society Annual Conference, Worcester, Massachusetts, March 7, 1992.

"Rx for Recovery: Planned Growth in a Protected Environment." McCormack Institute, University of Massachusetts, Boston, Massachusetts, March 6, 1992.

"Waste Water Outfall: Science and Policy." Seventh Annual Boston Harbor and Massachusetts Bay Symposium, Boston, Massachusetts, February 10, 1992.

"Environment in the 90s." American Society for Public Administration, Boston, Massachusetts, December 3, 1991.

"Independent Power Producers: The View from the States," Fourth Annual IPP Market Conference, Washington, DC, October 22, 1991.

"Regional and Collaborative Approaches to Environmental Problems." NARUC National Conference on Regionalism in Electric Utility Regulation, Washington, DC, October 2, 1991.

Keynote Speaker, "Protecting the Cape." Association for the Preservation of Cape Cod Annual Meeting, Hyannis, Massachusetts, August 4, 1991.

"Environmental Regulatory Initiatives." Mass Insight Conference on Massachusetts Water and Sewer Authorities, Boston, Massachusetts, June 13, 1991.

"Electric Transmission Constraints and Solutions." *Northeast Power Report* Conference on Siting Power Plants in the Northeast, Boston, Massachusetts, May 23, 1991.

"Reflections of a Former Utility Regulator: Obstacles on the Rocky Road to Competition in Electric Generation Markets." INFOCAST Conference on Competitive Bidding for Power Contracts, New York, New York, May 20, 1991.

"Market Mechanisms for Environmental Regulation." Project 88 Conference on Incentive-Based Approaches to Solid Waste Management, Kennedy School of Government, Harvard University, Cambridge, Massachusetts, May 16, 1991.

"Agenda for Boston Harbor." Boston Harbor Association, Boston, Massachusetts, May 2, 1991.

"Transportation Policy for Massachusetts in the 90s." Boston Society of Civil Engineers/American Society for Civil Engineers, Boston, Massachusetts, April 25, 1991.

"Environmental Factors Affecting Gas Facilities." Conference on Moving Gas in the Northeast, Boston, Massachusetts, February 5, 1991.

"Today's Challenges in the Energy Industry." Federal Energy Bar Association Mid-Year Meeting, Washington, DC, November 30, 1990.

"Regulation in the 1990s: A Solution to the Challenge—Massachusetts' Pre-Approval Regulatory Scheme." Edison Electric Institute Financial Conference, Coronado, California, October 29, 1990.

"Regulatory Issues for Least Cost Planning." Energy Conference on Least Cost Planning, New Orleans, Louisiana, October 24, 1990.

"A Regulator's Perspective on New England Transmission Policy." Fourth Annual Harvard University Executive Session on Northeast Electric Power Policy, Nantucket, Massachusetts, October 1990.

"Transmission: What Happens Next?" *The Energy Daily* Annual Conference, Washington, DC, September 10, 1990.

"The Western Grid: A Regulatory Black Hole?" Annual Conference of the Western Conference of Public Service Commissioners, Tucson, Arizona, June 12, 1990.

Keynote Speaker, "Energy Policy Environment of the 1990s." American Bar Association Third Annual Conference on Electric Law and Regulation, Denver, Colorado, March 8, 1990.

"Legal and Regulatory Issues." *Public Utility Reports* Second Annual Transmission Symposium, Washington, DC, January 2, 1990.

"Coordinating the Licensing of Electric Generation Plants." Second Symposium on Energy Policy, McCormack Institute, University of Massachusetts, Boston, Massachusetts, September 28, 1989.

"A 'FUN' List of Issues Affecting the Role of Qualifying Facilities and Independent Power Producers in Utilities' Least Cost Plans." NARUC National Conference on Least Cost Utility Planning, Charleston, South Carolina, September 12, 1989.

"Competitive Bidding: A View from the States." NAESCO Conference on Competitive Bidding and Performance Contracting, Coral Gables, Florida, May 22, 1989.

"The Massachusetts Experience." Illinois Commerce Commission Workshop on Least Cost Utility Planning, Chicago, Illinois, May 10, 1989.

"Regulatory Perspective on Interruptible Rates." EPRI Symposium on New Dimension in Pricing Electricity, Syracuse, New York, September 28-30, 1988.

RECENT PRESENTATIONS

"Unbundling and Competition." Conference on Retail Competition: Bridging the Gap Between Promise & Reality, Electric Utility Consultants, Inc., Denver Colorado, November, 1996.

"Electric Industry Update: What's Happening?" New York State Gas & Electric Company, Binghamton, New York, October, 1996.

"Unbundling and Competition: Policy, Legal, Financial, and Technical Issues for Electric Companies." Otter Tail Power Company, Fergus Falls, Minnesota, October 7, 1996.

"Change in the Electric Industry: Getting Ahead of the Curve." Equifax National Decision Systems 1996 Users Conference, San Diego, California, July 18, 1996.

Chair, Panel on the Role of Government in the Structure of the Energy Industries, Aspen Institutes 20th Annual Energy Policy Conference, Aspen, Colorado, June 27 - July 3, 1996.

"Environmental Comparability and Jurisdictional Challenges." NARUC Energy Conservation Committee, St. Louis, Missouri, April 27, 1996.

"Electric Industry Update: What's Hot and What's Not." EQUIFAX Utility Conference, Scottsdale, Arizona, April 23, 1996.

"Local Gas Competition." Algonquin Pipeline Company, Annual Customer Meeting, Amelia Island, Florida, April 11, 1996.

The Energy Foundation Board of Directors, Discussion on Climate Change and Policy, Boston, Massachusetts, March 14, 1996.

Electric Industry Restructuring, Presentation to New England Municipal Light Plants, Reading, Massachusetts, February 13, 1996.

India Private Power Initiative: Training Course for Indian State Electricity Boards on Electricity Markets and Regulation, International Institute for Education and U.S. Agency for International Development, Hyderabad, India, November 6-11, 1995.

Hemispheric Energy Symposium, Moderator, Session on Regulatory Cooperation among Latin American countries, Washington, DC, October 29-31, 1995.

Moderator and Co-Sponsor, Roundtable on Financing Private Power Projects in India, Merrill Lynch, New York, New York, June 1995.

"Engineering for a Sustainable Future." American Association of Engineering Societies, Washington, DC, March 28, 1995.

Roundtable Presentation on U.S. Energy Policy, Interstate Oil and Gas Compact Commission, Washington, DC, March 17, 1995.

Moderator and Sponsor, Seminar on International Power Development, Washington, DC, March 3, 1995.

Conference Moderator and Sponsor, Western Interstate Energy Board, Committee on Regional Electric Power Cooperation, San Francisco, California, January 19-20, 1995.

"The Nation's Energy Policy." Close Up/C-SPAN televised broadcast, July 19, 1994.

"Energy Conservation and Environmental Protection." Fifth REPSOL/Harvard Seminar, Survival in a World of Low Oil Prices: Meeting the Challenge of the 90s, Barcelona, Spain, June 4, 1994.

"Department of Energy Strategic Plan: Fueling a Competitive Economy." Satellite Video Teleconference, Washington, DC, April 1994.

"Clinton Administration Energy Policy: Electricity and Natural Gas," Annual Meeting of the National Independent Energy Producers, Greenbrier, West Virginia, November 30, 1993.

"Federal Policy on Electricity." Presentation to the NARUC Electricity Committee, Washington, DC, July 27, 1993.

REPRESENTATION

Vice-Chair, Governing Board of the International Energy Agency, 1993-1995

Board of Trustee Observer, North American Electric Reliability Council, 1994-1995

Co-Chair, U.S. Joint Initiative on Joint Implementation, 1994-1995

U. S. Department of Energy Trade Mission to Mexico, Second Member of Official U.S. Delegation,
June 19-23, 1995

Chair, U.S. Delegation, Bilateral Energy Meetings with India, Washington DC, June 1995

Presidential Mission on Sustainable Energy and Trade to China, Second Member of Official U.S. Delegation, February 15-24, 1995

Chair, U.S. Delegation, Bilateral Energy Meetings with India, New Delhi, India, January 1995

Chair, U.S. Delegation, Bilateral Energy Meetings with Indonesia, Washington, DC, December, 1994

Presidential Mission on Energy Investment in Pakistan, Second Member of Official U.S. Delegation, September 12-25, 1994

Chair, U.S. Delegation, Bilateral Energy Meetings with Mexico, Mexico City, Mexico, 1994

Chair, U.S. Delegation, Bilateral Energy Meetings with Canada, Calgary, Canada, Spring, 1994

U.S. Representative to the International Energy Agency Ministerial on Environment, Interlaken, Switzerland, March 1994

1993 in-depth Review of the United States Energy Policy, International Energy Agency, Paris, France, March 1994

Vice-Chair, Federal Fleet Conversion Task Force, 1993-1994

Chair of the Board, Massachusetts Water Resources Authority, 1991-1993

Founding Member and Massachusetts Representative, Ozone Transport Commission, 1991-1993

Member, U.S. Environmental Protection Agency Clean Air Act Advisory Committee, 1991-1993

Member, U.S. Environmental Protection Agency Science Advisory Committee, 1993

Member, National Electromagnetic Field Research Program Steering Committee, 1991-1993

Trustee for Natural Resources, New Bedford Harbor Clean Up, 1991-1993

Massachusetts Trade Mission to Asia: Japan, Korea, Taiwan, Hong Kong, August 21-September 4, 1991.

NEGOTIATIONS ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY

With the Internal Revenue Service regarding tax treatment for utility company demand-side management expenditures, 1994-1995.

With the U.S. Department of Defense, Office of Management and Budget, Office of Environmental Quality, Council of Economic Advisors, and Environmental Protection Agency, regarding federal positions in interventions on electric industry restructuring policy, before state and federal utility regulators, 1994-1995.

With members of the Policy Dialogue Advisory Committee to Assist in the Development of Measures to Significantly Reduce Greenhouse Gas Emissions from Personal Motor Vehicles, 1994-1995.

With the Office of Management and Budget and National Performance Review, regarding the Performance Agreement between President Clinton and Secretary Hazel O'Leary, Fiscal Year 1995.

With the Office of Management and Budget, Council on Economic Advisors, and Environmental Protection Agency regarding use of the SURE Model to estimate costs of the Superfund program, 1994.

With the White House, Department of State, Environmental Protection Agency, regarding development of President Clinton's Climate Change Action Plan, 1993-1995.

With the Ford Motor Company, Chrysler Corporation, and General Motors Corporation, regarding the President's Partnership for a New Generation of Vehicles (in conjunction with the White House, and Departments of Commerce, Transportation and Environmental Protection Agency), 1993-1994.

NEGOTIATIONS ON BEHALF OF THE COMMONWEALTH OF MASSACHUSETTS

With the Ozone Transport Commission members regarding adoption of governance rules and region-wide policies for implementation of the ozone-related portions of the Clean Air Act, 1991-1993.

With the U.S. Department of Justice, Environmental Protection Agency, and local Massachusetts communities, regarding policies for disposition of sludge from Boston Harbor, 1991-1993.

With the New England Power Pool members, New England state public utility regulators, and independent power producers, regarding development of regional transmission policies, 1989-1990.

With members of the Keystone Independent Power and Transmission Dialogue, regarding regional transmission policies, 1988-1990.

PUBLICATIONS, REPORTS, ARTICLES

"Fueling the Future: America's Automotive Alternatives," (with Philip Sharp), The American Assembly, Columbia University, Arden House, New York, September, 1995.

"Needed: Broad Perspective, Fresh Ideas," guest editorial, *The Electricity Journal*, November 1994.

Foreword in J. Raab, *Using Consensus Building to Improve Utility Regulation*, American Council for an Energy-Efficient Economy, Washington, DC, 1994

"Massachusetts' Pre-Approval Approach to Prudence in Massachusetts," *The Electricity Journal*, December 1990.

"Using Existing Tools to Pry Open Transmission—A New England Proposal," *The Electricity Journal*, April 1990.

"Sustainable Energy Strategy: Clean and Secure Energy for a Competitive Economy," (directed), National Energy Policy Plan, July 1995.

"The Domestic Natural Gas and Oil Initiative: First Annual Progress Report," (directed), U.S. Department of Energy, February 1995.

General Guidelines for Voluntary Reporting of Greenhouse Gases under Section 1605(b) of the Energy Policy Act of 1992, (directed), U.S. Department of Energy, October 1994.

"Fueling a Competitive Economy: Strategic Plan for the U.S. Department of Energy," (directed), April 1994.

"The Domestic Natural Gas and Oil Initiative: Energy Leadership in the World Economy," (directed), U.S. Department of Energy, December 1993.

"Siting Needs: Issues and Options," U.S. Department of Energy, June 1993.

"The Nuclear Waste Controversy," in D. Nelkin, *Controversy: The Politics of Technical Decisions*, Sage: 1977; 1984 (second edition).

DATAWARS: Computer Models in the Federal Government, (with Kenneth L. Kraemer, Siegfried Dickhoven, and John Leslie King), Columbia University Press, 1987.

"The Evolution of the Nuclear Debate," *Annual Review of Energy*, 1978.

OTHER PROFESSIONAL ACTIVITIES

Director, MHI, Inc. (electric utility aggregator for non-profit organizations in Massachusetts, 1997 to present

Director, Thermo ECOTEK Corporation, 1996 to present

Member, United States Department of Energy, Electricity Reliability Task Force, 1996 to present

Associate, Center for Science and International Affairs, John F. Kennedy School of Government, Harvard University, 1996 to present

Participant, The Aspen Institute Energy Program, 1996

Board Member, Advisory Committee, Energy Program, Oak Ridge National Laboratory, 1996 to present

Board Member, Charles River Watershed Association, 1995 to present

Member, Advisory Committee, U.S. Agency for International Development Energy Training Program (Institute for International Education), 1995 to present

Co-Director (with Philip R. Sharp) of the 88th American Assembly, Columbia University: "Fueling the Future: America's Automotive Alternatives," September 7-10, 1995

Member, Advisory Committee, Electric Power Research Institute, 1994 to present

Member, Harvard Electricity Policy Group, 1993 to present

Member, Keystone, Dialogue on PURPA and PUHCA, 1994 to present

Member, Advisory Board, International Association for Energy Economists, 1995

Member, Utility Futures Working Group, The Energy Foundation, 1993-1995

Member, National Association of Regulatory Utility Commissioners, Gas Committee, 1994-1995

Member, Clean Air Act Advisory Committee, U.S. Environmental Protection Agency, 1991-1993

Member, Science Advisory Committee, U.S. Environmental Protection Agency, 1992-1993

Trustee for Natural Resources, New Bedford Harbor Clean Up, 1991-1993

Member, Keystone Dialogue on Independent Power and Electric Transmission, 1989-1990

Member, National Association of Regulatory Utility Commissioners, Energy Conservation Committee, 1988-1990

Chair, Transmission Task Force of the Power Planning Committee of the New England Governors' Conference, 1988-1990

HONORS AND AWARDS

Award for Individual Leadership in Public Service, *The Energy Daily*, 1995

Special Recognition Award for Outstanding Contribution to the Industry, Cogeneration and Competitive Power Institute, Association of Energy Engineers, 1994

Leadership Award, National Association of State Energy Officials, 1994

Commencement Speaker and Honorary Doctorate of Laws, Regis College, Weston, Massachusetts, 1992

Commencement Speaker, The Fessenden School, Newton, Massachusetts, 1992

Guest Lecturer at courses at Kennedy School of Government, Harvard University; Russian Research Center, Harvard University; The Fletcher School, Tufts University; John Hopkins University; Massachusetts Institute of Technology; Boston College; Brandeis University; Yale University School of Management; Cornell University; University of Massachusetts/Boston; Boston University, 1988-95

Mackesay Prize for Academic Excellence, Cornell University, 1976

Herbert Lehman Fellowship in the Social Sciences, New York State, 1974-78

Valedictorian, Redlands High School, Redlands, California, 1968

PERSONAL

Married to John Thomas Tierney, Associate Professor of Political Science, Boston College, Chestnut Hill, MA

Mother of James Fallows Tierney and Thomas Fairall Tierney, Chestnut Hill, MA

EXHIBIT SFT 2

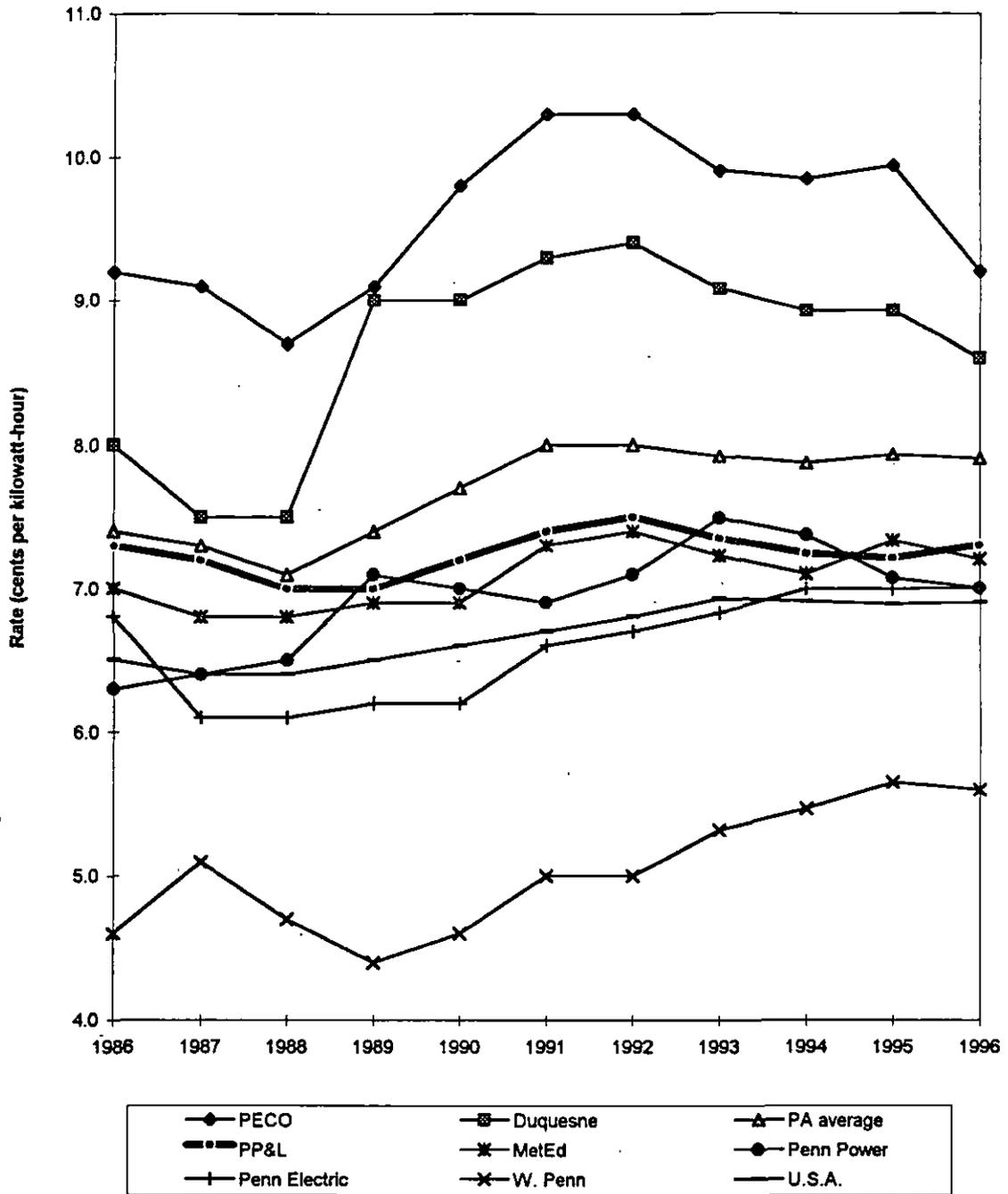
Exhibit SFT 2
COMPARISON OF ELECTRIC RATES -- 1995 (cents/kwh)*

National Rank	Pennsylvania Companies	Average Rate	State Rankings Selected States	Company Rankings
Highest Rate in the US		15.40		Lilco (15.37)
		13.50		Con Ed (13.54)
		12.30		PSNH (12.30) UI (11.97)
		11.72	New Hampshire	
		11.06	New York	JCP&L (11.28) BECO (11.08)
		10.50	Connecticut	SCE (10.60)
		10.44	New Jersey	O&R (10.50) PGE (10.47)
		10.38	Rhode Island	
		10.12	Massachusetts	
		9.91	California	PSE&G (9.96)
		9.49	Maine	MECO (9.36) NIMO (9.34) Delmarva (9.12)
		8.92		OhioEd (8.51) ComEd (8.30)
		7.93	Pennsylvania Statewide Average	
		7.69	Illinois	Det Ed (7.77)
	Weighted Average US	MetEd	7.33	
PP&L		7.21		
Penn Power		7.07	Maryland	
Penn Elec		6.99		
		6.89	Delaware (6.91)	CP&L (6.55)
		6.58	N Carolina, Georgia	VEPCo (6.54)
		6.34	West Virginia	CinG&E (6.36)
		6.24	Ohio, Virginia	
		6.10	Texas	
		5.65		HPL (5.80)
	5.24	Indiana		
Lowest Rates in US		4.07	Idaho, Kentucky	PSI (4.56) Ohio Pow (4.23)

*Source: Energy Information Administration, Electric Sales and Revenue, 1995.

EXHIBIT SFT 3

Exhibit SFT 3 Rates for Electric Utilities in Pennsylvania, 1986-1996 (Nominal \$)



Source: EIA, Electric Sales and Revenues (1990-1996); EIA, Financial Statistics of Major Electric Companies (1986-1989).

Exhibit SFT 3											
Rates for Electric Utilities in Pennsylvania, 1986-1996 (Nominal \$)											
(Raw Data)											
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
PECO	9.2	9.1	8.7	9.1	9.8	10.3	10.3	9.9	9.8	9.9	9.2
Duquesne	8.0	7.5	7.5	9.0	9.0	9.3	9.4	9.1	8.9	8.9	8.6
PA average	7.4	7.3	7.1	7.4	7.7	8.0	8.0	7.9	7.9	7.9	7.9
PP&L	7.3	7.2	7.0	7.0	7.2	7.4	7.5	7.4	7.2	7.2	7.3
MetEd	7.0	6.8	6.8	6.9	6.9	7.3	7.4	7.2	7.1	7.3	7.2
Penn Power	6.3	6.4	6.5	7.1	7.0	6.9	7.1	7.5	7.4	7.1	7.0
Penn Electric	6.8	6.1	6.1	6.2	6.2	6.6	6.7	6.8	7.0	7.0	7.0
W. Penn	4.6	5.1	4.7	4.4	4.6	5.0	5.0	5.3	5.5	5.7	5.6
U.S.A.	6.5	6.4	6.4	6.5	6.6	6.7	6.8	6.9	6.9	6.9	6.9

Source: EIA, Electric Sales and Revenues (1990-1996); EIA, Financial Statistics of Major Electric Companies (1986-1989).

EXHIBIT SFT 4

Exhibit SFT 4
Real Price of Electricity, All Classes
(As a Percent of Pa. Ave. 1986 Rates)
1986-1996

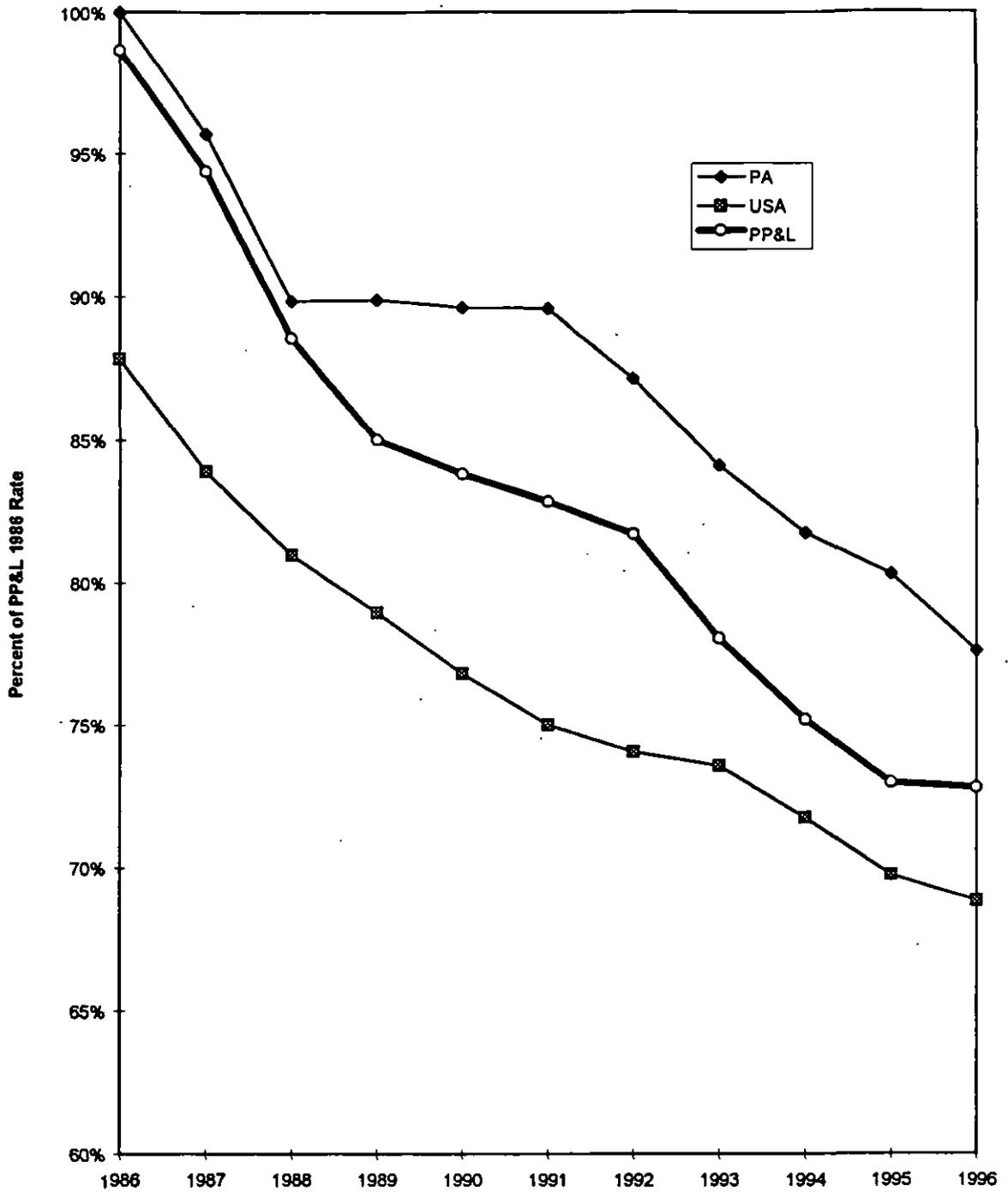


Exhibit SFT 4
Price of Electricity, All Classes: 1986-1996
Stated As a Percentage of 1986 Average Pa. Rates
(1986 Dollars)

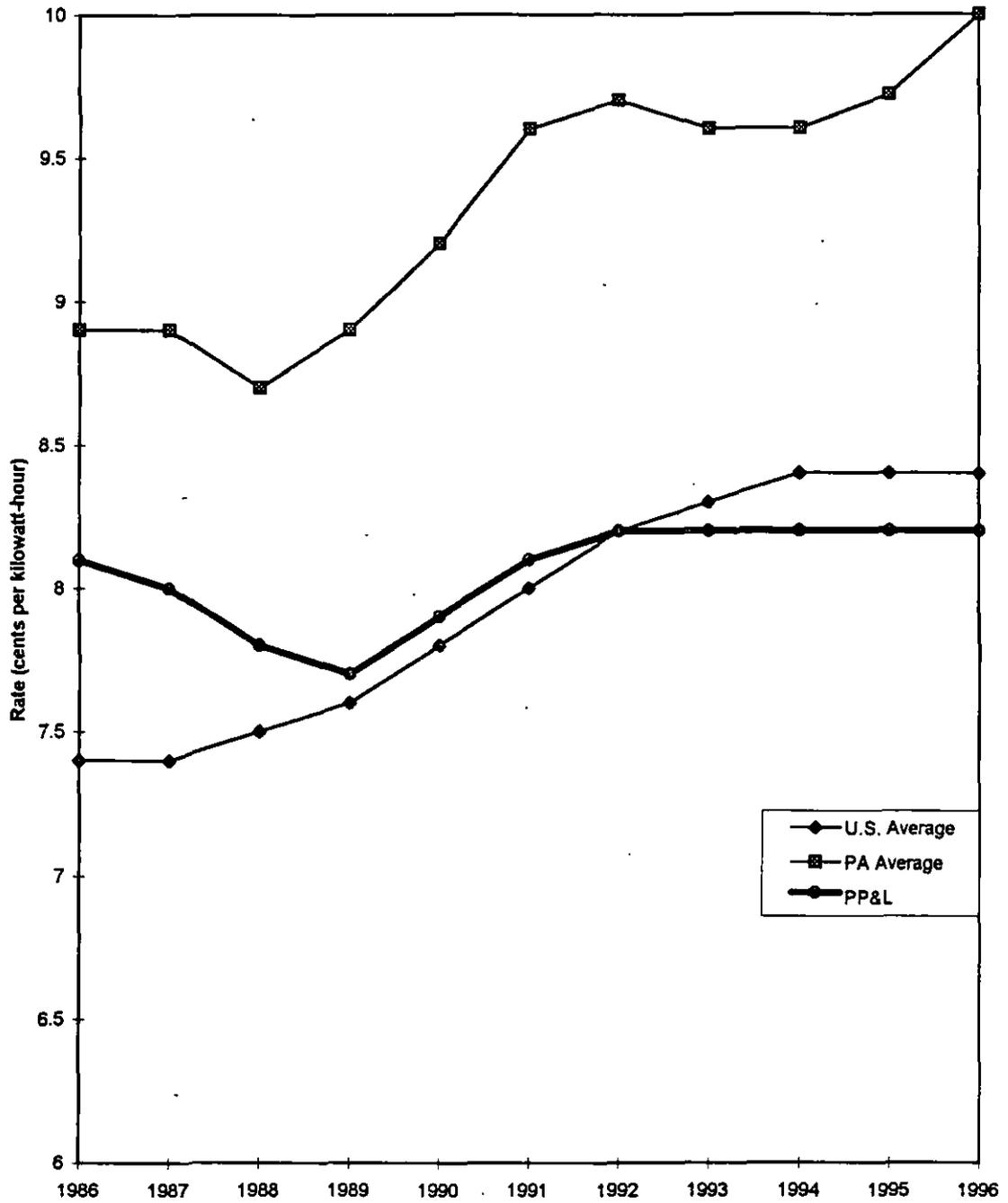
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
PA	100%	96%	90%	90%	90%	90%	87%	84%	82%	80%	78%
USA	88%	84%	81%	79%	77%	75%	74%	74%	72%	70%	69%
PP&L	99%	94%	89%	85%	84%	83%	82%	78%	75%	73%	73%

PP&L 1986 Rate = 100%

Source: EIA, Electric Sales and Revenues (1990-1996); EIA, Financial Statistics of Major Electric Companies (1986-1989).

EXHIBIT SFT 5

Exhibit SFT 5
Residential Rates: 1986-1996
(Nominal cents/kwh)



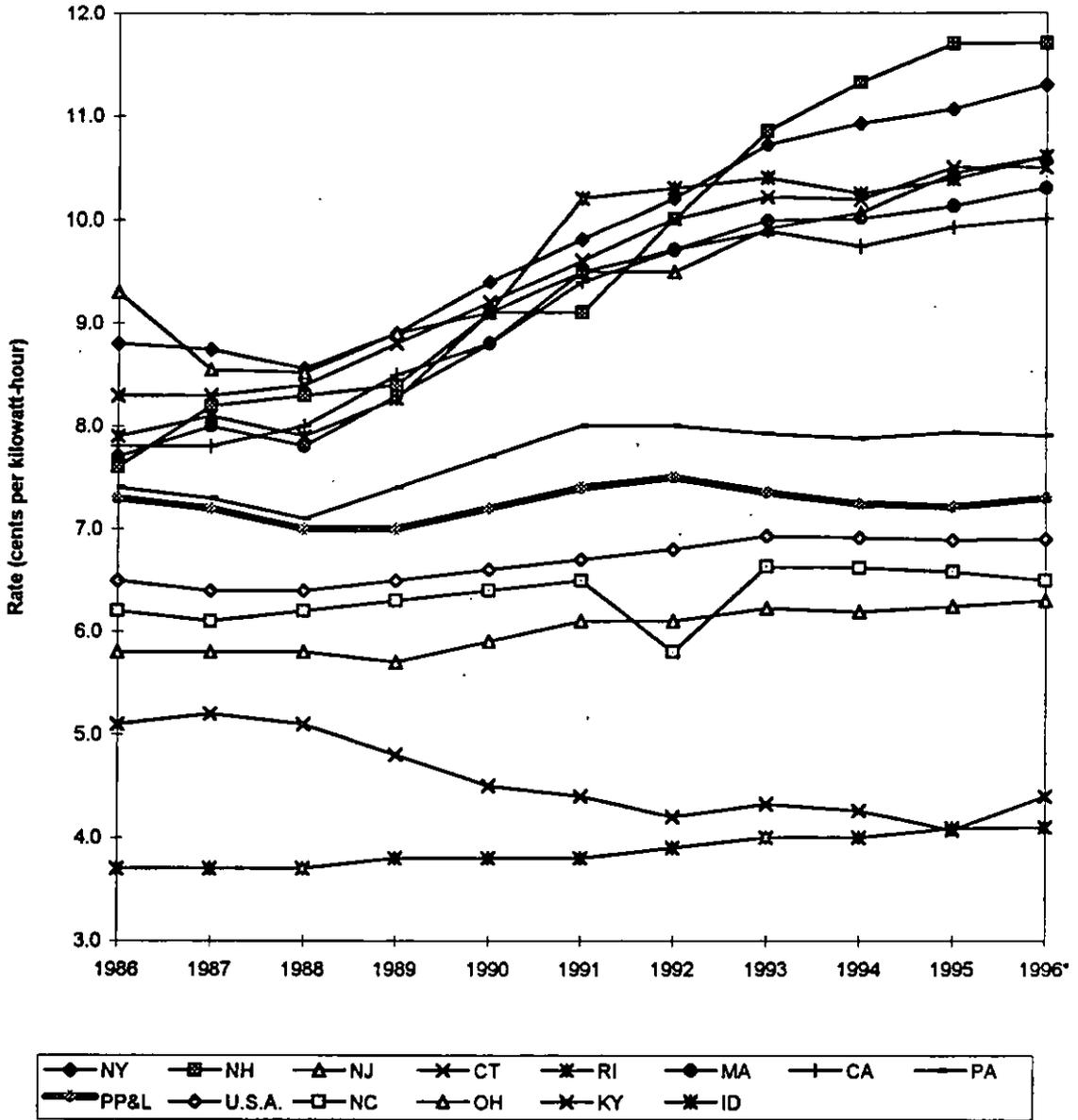
Source: EIA, Electric Sales and Revenues (1990-1996); EIA, Financial Statistics of Major Electric Companies (1986-1989).

Exhibit SFT 5											
Residential Rates (Nominal cents/kwh): 1986-1996											
(Raw Data)											
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
U.S. Average	7.4	7.4	7.5	7.6	7.8	8.0	8.2	8.3	8.4	8.4	8.4
PA Average	8.9	8.9	8.7	8.9	9.2	9.6	9.7	9.6	9.6	9.72	10.0
PP&L	8.1	8	7.8	7.7	7.9	8.1	8.2	8.2	8.2	8.2	8.2

Source: EIA, Electric Sales and Revenues (1990-1996); EIA, Financial Statistics of Major Electric Companies (1986-1989).

EXHIBIT SFT 6

Exhibit SFT 6 Electricity Rates (Nominal) for PP&L and Various States' Averages, 1986-1996



Source: EIA, Electric Sales and Revenues (1990-1996); EIA, Financial Statistics of Major Electric Companies (1986-1989).

Exhibit SFT 6
Electricity Rates (Nominal) for PP&L and Various States' Averages, 1986-1996
(Raw Data)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
NY	8.8	8.7	8.6	8.9	9.4	9.8	10.2	10.7	10.9	11.1	11.3
NH	7.6	8.2	8.3	8.4	9.1	9.1	10.0	10.9	11.3	11.7	11.7
NJ	9.3	8.6	8.5	8.9	9.1	9.5	9.5	9.9	10.1	10.4	10.6
CT	8.3	8.3	8.4	8.8	9.2	9.6	10.0	10.2	10.2	10.5	10.5
RI	7.9	8.1	7.9	8.3	9.1	10.2	10.3	10.4	10.2	10.4	10.6
MA	7.7	8.0	7.8	8.3	8.8	9.5	9.7	10.0	10.0	10.1	10.3
CA	7.8	7.8	8.0	8.5	8.8	9.4	9.7	9.9	9.7	9.9	10.0
PA	7.4	7.3	7.1	7.4	7.7	8.0	8.0	7.9	7.9	7.9	7.9
PP&L	7.3	7.2	7.0	7.0	7.2	7.4	7.5	7.4	7.2	7.2	7.3
U.S.A.	6.5	6.4	6.4	6.5	6.6	6.7	6.8	6.9	6.9	6.9	6.9
NC	6.2	6.1	6.2	6.3	6.4	6.5	5.8	6.6	6.6	6.6	6.5
OH	5.8	5.8	5.8	5.7	5.9	6.1	6.1	6.2	6.2	6.2	6.3
KY	5.1	5.2	5.1	4.8	4.5	4.4	4.2	4.3	4.3	4.1	4.4
ID	3.7	3.7	3.7	3.8	3.8	3.8	3.9	4.0	4.0	4.1	4.1

* Data Through October, 1996

Source: EIA, Electric Sales and Revenues (1990-1996); EIA, Financial Statistics of Major Electric Companies (1986-1989).

EXHIBIT SFT 7

Exhibit SFT 7
Conceptual Diagram for PP&L's Unbundling Method

**Today's Unbundled
Rate**

**Unbundled Rate
(No Rate Redesign)**

Customer Charge
(\$/customer)

Delivery*

customer charge
energy charge

Demand Charge
(\$/kw)

Supply

demand charge
energy charge

Usage Charge
(cents/kwh)

Competitive Transition Charge

demand charge
energy charge
fixed charges

* Includes Transmission, Distribution, and Universal Service/Social Program charges

EXHIBIT SFT 8

Exhibit SFT 8
PP&L's "Bottom-Up" Unbundling Method: Step by Step

Step 1:	Pull together cost of service data from last approved base rate case, to determine for each class transmission revenues, distribution revenues, generation revenues, and total revenues
Step 2:	Pull together data on number of customers and energy usage for each customer class
Step 3:	For each rate, start with today's rate structure as the unit to be unbundled: For example, the RS rate is: customer charge: = \$6.47 kwh charges: (0-200) @ 8.845 c/kwh (201-600) @ 7.847 c/kwh (601+) @ 7.248 c/kwh
Step 4:	To determine for each rate class the unbundled distribution ("D") portion* of the rate, perform the following calculation: $\begin{array}{rcl} \text{Total D} & \text{D Revenue} & \text{Remaining D} \\ \text{Revenue} & \text{Collected} & \text{Revenue to be} \\ \text{or Class} & \text{n Customer} & \text{Collected in} \\ & \text{Charge**} & \text{kwh charge***} \\ & & \text{(D Revenue/kwh=D kwh} \\ & & \text{charge)} \end{array}$ <p>* The distribution portion of the rates includes social programs. ** (# of customers x customer charge) *** (Remaining D Revenue / total class kwh = c/kwh for D)</p>
Step 5:	To determine for each rate class the unbundled transmission ("T") portion of the rate, perform the following calculation: $\begin{array}{rcl} \text{Total T} & \text{Total Kwh} & \\ \text{Revenue} & \text{in class} & = \text{T kwh charge} \\ \text{for Class} & & \end{array}$
Step 6:	To determine for each rate class the unbundled generation-related portion of the rate, subtract the T and D amounts (in customer charges and kwh charges) established in preceding steps. (See Exhibit SFT 9)
Step 7:	To obtain for each rate class the split between the market-priced supply and the competitive transition charge ("CTC") in any year, subtract the estimated market price from the generation-related portion of the tariff. The remainder is CTC. (See Exhibit SFT 9)
Step 8:	Each customer's bill will have the D, T, and CTC broken out in separate line items on the bill. Customers who take supply from PP&L will also have a supply line item billed at prevailing market rates. (See Exhibit SFT 9 and Section V.B.1 and V.B.3)
Step 9:	To obtain the CTC for each rate class for each year of the transition period, repeat Step 7 using the market price estimate for each year from 1999 through 2005. This step will establish a schedule of CTC's for each rate class for each year. (See Exhibit SFT 10)

EXHIBIT SFT 9

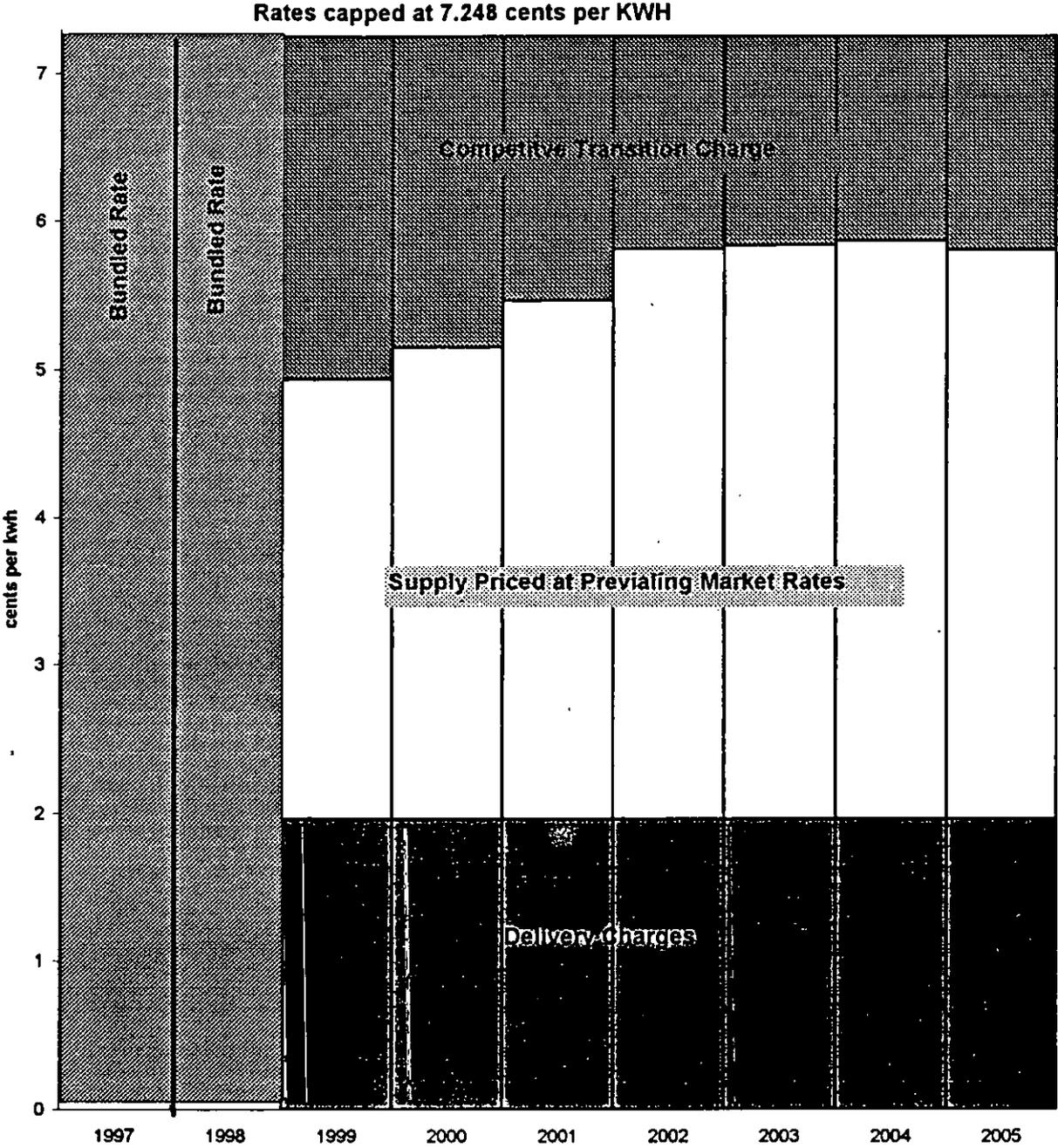
Exhibit SFT 9

Illustrative Unbundling Example: RS Class

	Today's Rate	Unbundled Rates			
		Delivery	Supply	CTC	Total
Customer Charge (\$/cust)	\$6.47000	\$6.47000	0	0	\$6.47000
Demand Charge (\$/kw)	0	0	0	0	0
Energy Charge (\$/kwh)					
1st block	\$0.08845	0.01961	0.02967	0.03917	\$0.08845
2nd block	\$0.07847	0.01961	0.02967	0.02919	\$0.07847
3rd block	\$0.07248	0.01961	0.02967	0.02320	\$0.07248

EXHIBIT SFT 10

Exhibit SFT-10
Conceptual Schedule of Rate Cap, CTC Charges, Supply
Charges and Delivery Charges : (1999-2005 (RS Class)*



* For traditional RS class, tail block kwh rate.

EXHIBIT SFT 11

Exhibit SFT- 11

**Illustrative customer bill: RS Class
Current Rates v. Unbundled Traditional Rates v. Efficient Customized Rate Redesign**

CUSTOMER WITH 300 KWH of MONTHLY USE

Today's RS Rate		Unbundled "Traditional" RS Rate		Unbundled Efficient "Customized" RS Rate (Redesign)	
Customer Charge	\$ 6.47	Delivery Customer Charge	\$ 6.47	Delivery Customer Charge	\$6.47
				CTC Customer Charge*	\$5.38
Energy Charge: (0-200) @ 8.845 c/kwh (201-600) @ 7.847 c/kwh (601+) @ 7.248 c/kwh	17.69	Delivery Charge (@ 1.961 c/kwh)	5.883	Delivery Charge (@ 1.961 c/kwh)	5.883
	7.85	Supply Charge (@ 2.967 c/kwh)	8.901	Supply Charge (@ 2.967 c/kwh)	8.901
	-	CTC Charge (variable) (0-200) @ 3.917 c/kwh (201-600) @ 2.919 c/kwh (601+) @ 2.320 c/kwh [total CTC=\$10.753]*	7.834 2.919 -	CTC Charge (variable) (0-200) @ 1.959 c/kwh (201-600) @ 1.460 c/kwh (601+) @ 1.160/kwh [Variable CTC=\$5.38]*	3.917 1.460 -
TOTAL BILL	\$ 32.01		\$ 32.01		\$ 32.01

* Note that in both the unbundled traditional RS rate and the Customized RS Rate, \$10.76 of CTC is collected.

Exhibit SFT 11

**Illustrative customer bill: RS Class
Current Rates v. Unbundled Traditional Rates v. Efficient Customized Rate Redesign**

CUSTOMER WITH 600 KWH of MONTHLY USE

Today's RS Rate		Unbundled "Traditional" RS Rate		Unbundled Efficient "Customized" RS Rate (Redesign)	
Customer Charge	\$ 6.47	Delivery Customer Charge	\$ 6.470	Delivery Customer Charge CTC Customer Charge*	\$16.225 9.755
Energy Charge: (0-200) @ 8.845 c/kwh (201-600) @ 7.847 c/kwh (601+) @ 7.248 c/kwh	17.69	Delivery Charge (@ 1.961 c/kwh)	11.766	Delivery Charge (@ 1.961 c/kwh)	11.766
	31.39	Supply Charge (@ 2.967 c/kwh)	17.802	Supply Charge (@ 2.967 c/kwh)	17.802
	-	CTC Charge (variable) (0-200) @ 3.917 c/kwh (201-600) @ 2.919 c/kwh (601+) @ 2.320 c/kwh [total CTC=\$19.51]*	7.834 11.676 -	CTC Charge (variable) (0-200) @ 1.959 c/kwh (201-600) @ 1.460 c/kwh (601+) @ 1.160/kwh [variable CTC=\$9.76]*	3.917 5.838 -
TOTAL BILL	\$ 55.55		\$ 55.55		\$ 55.55

* Note that in both the unbundled traditional RS rate and the Customized RS Rate, \$19.52 of CTC is collected.

Exhibit SFT 11

**Illustrative customer bill: RS Class
Current Rates v. Unbundled Traditional Rates v. Efficient Customized Rate Redesign**

CUSTOMER WITH 1200 KWH of MONTHLY USE

Today's RS Rate		Unbundled "Traditional" RS Rate		Unbundled Efficient "Customized" RS Rate (Redesign)	
Customer Charge	\$ 6.47	Delivery Customer Charge	\$ 6.470	Delivery Customer Charge	\$23.185
				CTC Customer Charge*	16.715
Energy Charge: (0-200) @ 8.845 c/kwh (201-600) @ 7.847 c/kwh (601+) @ 7.248 c/kwh	17.69	Delivery Charge (@ 1.961 c/kwh)	23.532	Delivery Charge (@ 1.961 c/kwh)	23.532
	31.39	Supply Charge (@ 2.967 c/kwh)	35.604	Supply Charge (@ 2.967 c/kwh)	35.604
	43.49	CTC Charge (variable) (0-200) @ 3.917 c/kwh (201-600) @ 2.919 c/kwh (601+) @ 2.320 c/kwh [total CTC=\$33.43]*	7.834 11.676 13.920	CTC Charge (variable) (0-200) @ 1.959 c/kwh (201-600) @ 1.460 c/kwh (601+) @ 1.160/kwh [Variable CTC=\$16.715]*	3.917 5.838 6.960
TOTAL BILL	\$ 99.04		\$ 99.04		\$ 99.04

* Note that in both the unbundled traditional RS rate and the Customized RS Rate, \$33.44 of CTC is collected.

EXHIBIT SFT 12

Exhibit SFT 12

**Reduction in Marginal Rate: Customized Rate Redesign versus Current Rates --
Marginal Rate Reductions in 1999**

Customer Class	Percent of PP&L Customers in each Customer Class	Percent Reduction in Marginal Rate for Customers Under the Customized Rate Option
RS	86.68 %	16.0 %
RTS	0.02 %	16.5 %
RTD	1.18 %	34.5 %
GS-1	9.97 %	7.4 %
GS-3	1.63 %	5.1 %
LP-4	0.07 %	6.0 %
LP-5	0.01 %	8.6 %
LP-6	0.01 %	0.0 %
LPEP	0.01 %	4.4 %
IS1	0.01 %	0.1 %
IS-P	0.01 %	1.8 %
IS-T	0.01 %	4.0 %
ISM	0.01 %	7.7 %
GH1	0.01 %	11.2 %
GH2	0.23 %	13.3 %

The weighted average reduction for PP&L customers is 15.13 percent.

* Number of PP&L customers, 12 months ended September 30, 1996

** Percentage reduction is calculated using the following formula: amount reduction in the tail block cents/kilowatt-hour rate divided by the total charges in the tail block cents/kilowatt-hour rate (i.e., 50 percent of the CTC in the tail block rate divided by the combined delivery, CTC and supply charges in the tail block rate). Using the data in Exhibit SFT 12, for example, the actual data for 1999 rates would be 1.16 cents/kilowatt-hour divided by 7.248 cents/kilowatt-hour.

PENNSYLVANIA POWER & LIGHT COMPANY

R -00 97 3954 RECEIVED

Exhibit WHW 3

PJM Open Access

Transmission Tariff pp 01 1997

ORIGINAL

PUBLIC UTILITY COMMISSION
OFFICE

Witness: William H. Whitehead

DOCKETED
APR 02 1997

PENNSYLVANIA POWER & LIGHT COMPANY

**Exhibit WHW 3
PJM Open Access
Transmission Tariff**

RECEIVED

APR 01 1997

PA PUBLIC UTILITY COMMISSION
PROTHONOTARY'S OFFICE

Witness: William H. Whitehead

**DOCUMENT
FOLDER**

ERM

**PJM OPEN ACCESS
TRANSMISSION TARIFF**

Revised as of March 12, 1997

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I. COMMON SERVICE PROVISIONS**1 Definitions**

- 1.1 Ancillary Services:** Those services that are necessary to support the transmission of capacity and energy from resources to loads while maintaining reliable operation of the Transmission Provider's Transmission System in accordance with Good Utility Practice.
- 1.2 Annual Transmission Costs:** The total annual cost of the Transmission System for purposes of Network Integration Transmission Service shall be the amount specified in Attachment H for each Zone until amended by the applicable RTO or modified by the Commission.
- 1.3 Application:** A request by an Eligible Customer for transmission service pursuant to the provisions of the Tariff.
- 1.4 Commission:** The Federal Energy Regulatory Commission.
- 1.5 Completed Application:** An Application that satisfies all of the information and other requirements of the Tariff, including any required deposit.
- 1.6 Control Area:** An electric power system or combination of electric power systems to which a common automatic generation control scheme is applied in order to:
- (1) match, at all times, the power output of the generators within the electric power system(s) and capacity and energy purchased from entities outside the electric power system(s), with the load within the electric power system(s);
 - (2) maintain scheduled interchange with other Control Areas, within the limits of Good Utility Practice;
 - (3) maintain the frequency of the electric power system(s) within reasonable limits in accordance with Good Utility Practice; and
 - (4) provide sufficient generating capacity to maintain operating reserves in accordance with Good Utility Practice.

- 1.7 Curtailment:** A reduction in firm or non-firm transmission service in response to a transmission capacity shortage as a result of system reliability conditions.
- 1.8 Delivering Party:** The entity supplying capacity and energy to be transmitted at Point(s) of Receipt.
- 1.9 Designated Agent:** Any entity that performs actions or functions on behalf of the Transmission Provider, an Eligible Customer, or the Transmission Customer required under the Tariff.
- 1.10 Direct Assignment Facilities:** Facilities or portions of facilities that are constructed by the Transmission Provider for the sole use/benefit of a particular Transmission Customer requesting service under the Tariff. Direct Assignment Facilities shall be specified in the Service Agreement that governs service to the Transmission Customer and shall be subject to Commission approval.
- 1.11 Eligible Customer:** (i) any electric utility (including any RTO and any power marketer), Federal power marketing agency, or any person generating electric energy for sale for resale; electric energy sold or produced by such entity may be electric energy produced in the United States, Canada or Mexico; however, such entity is not eligible for transmission service that would be prohibited by Section 212(h)(2) of the Federal Power Act; and (ii) any retail customer taking unbundled Transmission Service pursuant to a state retail access program or pursuant to a voluntary offer of unbundled retail transmission service by an RTO.
- 1.12 Facilities Study:** An engineering study conducted by the Transmission Provider to determine the required modifications to the Transmission Provider's Transmission System, including the cost and scheduled completion date for such modifications, that will be required to provide the requested transmission service.
- 1.13 Firm Point-To-Point Transmission Service:** Transmission Service under this Tariff that is reserved and/or scheduled between specified Points of Receipt and Delivery pursuant to Part II of this Tariff.
- 1.14 Good Utility Practice:** Any of the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry during the

relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.

- 1.15 Interruption:** A reduction in non-firm transmission service due to economic reasons pursuant to Section 14.7.
- 1.16 Load Ratio Share:** (a) Load Ratio Share for Monthly Demand Charge. Ratio of a Transmission Customer's Network Load to the applicable RTO's total load computed in accordance with Sections 34.2(a) and 34.3(a) of the Network Integration Transmission Service under Part III of the Tariff and calculated on a rolling twelve month basis. (b) Load Ratio Share for Redispatch Costs. For purposes of Sections 33.3 and 34.4, Load Ratio Share shall mean the ratio of a Transmission Customer's Network Load to the Transmission Provider's total load computed in accordance with Sections 34.2(b) and 34.3(b) of the Network Integration Transmission Service under Part III of the Tariff and calculated on a rolling twelve month basis.
- 1.17 Load Shedding:** The systematic reduction of system demand by temporarily decreasing load in response to transmission system or area capacity shortages, system instability, or voltage control considerations under Part III of the Tariff.
- 1.18 Long-Term Firm Point-To-Point Transmission Service:** Firm Point-To-Point Transmission Service under Part II of the Tariff with a term of one year or more.
- 1.18a MAAC:** The Mid-Atlantic Area Council, a reliability council under §202 of the Federal Power Act, established pursuant to the MAAC Agreement dated 1 August 1994, or any successor thereto.
- 1.19 Native Load Customers:** The wholesale and retail power customers of an RTO on whose behalf the RTO, by statute, franchise, regulatory requirement, or contract, has undertaken an obligation to construct and operate the RTO's system to meet the reliable electric needs of such customers.

- 1.19a NERC:** The North American Electric Reliability Council or any successor thereto.
- 1.20 Network Customer:** An entity receiving transmission service pursuant to the terms of the Transmission Provider's Network Integration Transmission Service under Part III of the Tariff.
- 1.21 Network Integration Transmission Service:** The transmission service provided under Part III of the Tariff.
- 1.22 Network Load:** The load that a Network Customer designates for Network Integration Transmission Service under Part III of the Tariff. The Network Customer's Network Load shall include all load served by the output of any Network Resources designated by the Network Customer. A Network Customer may elect to designate less than its total load as Network Load but may not designate only part of the load at a discrete Point of Delivery. Where a Eligible Customer has elected not to designate a particular load at discrete points of delivery as Network Load, the Eligible Customer is responsible for making separate arrangements under Part II of the Tariff for any Point-To-Point Transmission Service that may be necessary for such non-designated load.
- 1.23 Network Operating Agreement:** An executed agreement that contains the terms and conditions under which the Network Customer shall operate its facilities and the technical and operational matters associated with the implementation of Network Integration Transmission Service under Part III of the Tariff.
- 1.24 Network Operating Committee:** A group made up of representatives from the Network Customer(s) and the Transmission Provider established to coordinate operating criteria and other technical considerations required for implementation of Network Integration Transmission Service under Part III of this Tariff.
- 1.25 Network Resource:** Any designated generating resource owned or purchased by a Network Customer under the Network Integration Transmission Service Tariff. Network Resources do not include any resource, or any portion thereof, that is committed for sale to third parties or otherwise cannot be called upon to meet the Network Customer's Network Load on a non-interruptible basis.

- 1.26 Network Upgrades:** Modifications or additions to transmission-related facilities that are integrated with and support the Transmission Provider's overall Transmission System for the general benefit of all users of such Transmission System.
- 1.27 Non-Firm Point-To-Point Transmission Service:** Point-To-Point Transmission Service under the Tariff that is reserved and scheduled on an as-available basis and is subject to Curtailment or Interruption as set forth in Section 14.7 under Part II of this Tariff. Non-Firm Point-To-Point Transmission Service is available on a stand-alone basis for periods ranging from one hour to one month.
- 1.27a Office of the Interconnection:** The entity established by Section 3.3 of the PJM Interconnection Agreement.
- 1.28 Open Access Same-Time Information System (OASIS):** The information system and standards of conduct contained in Part 37 of the Commission's regulations.
- 1.29 Part I:** Tariff Definitions and Common Service Provisions contained in Sections 2 through 12.
- 1.30 Part II:** Tariff Sections 13 through 27 pertaining to Point-To-Point Transmission Service in conjunction with the applicable Common Service Provisions of Part I and appropriate Schedules and Attachments.
- 1.31 Part III:** Tariff Sections 28 through 35 pertaining to Network Integration Transmission Service in conjunction with the applicable Common Service Provisions of Part I and appropriate Schedules and Attachments.
- 1.32 Parties:** The Transmission Provider and the Transmission Customer receiving service under the Tariff.
- 1.32a PJM Interconnection Agreement:** That agreement dated as of September 26, 1956, as amended and as in effect from time to time, that establishes a pooling arrangement in the PJM Control Area and that, among other things, provides for the Office of the Interconnection.
- 1.32b PJM Control Area:** The Control Area that is recognized by NERC as the PJM Control Area.

- 1.33 Point(s) of Delivery:** Point(s) on the Transmission Provider's Transmission System where capacity and energy transmitted by the Transmission Provider will be made available to the Receiving Party under Part II of the Tariff. The Point(s) of Delivery shall be specified in the Service Agreement.
- 1.34 Point(s) of Receipt:** Point(s) of interconnection on the Transmission Provider's Transmission System where capacity and energy will be made available to the Transmission Provider by the Delivering Party under Part II of the Tariff. The Point(s) of Receipt shall be specified in the Service Agreement.
- 1.35 Point-To-Point Transmission Service:** The reservation and transmission of capacity and energy on either a firm or non-firm basis from the Point(s) of Receipt to the Point(s) of Delivery under Part II of the Tariff.
- 1.36 Power Purchaser:** The entity that is purchasing the capacity and energy to be transmitted under the Tariff.
- 1.37 Receiving Party:** The entity receiving the capacity and energy transmitted by the Transmission Provider to Point(s) of Delivery.
- 1.38 Regional Transmission Group (RTG):** A voluntary organization of transmission owners, transmission users and other entities approved by the Commission to efficiently coordinate transmission planning (and expansion), operation and use on a regional (and interregional) basis.
- 1.38a Regional Transmission Owner or RTO:** Each entity (a) that owns, leases or otherwise has a possessory interest in facilities used for the transmission of electric energy in interstate commerce, (b) that provides transmission service under the Tariff and (c) that is a party to the PJM Interconnection Agreement. The RTOs are listed in Attachment L.
- 1.39 Reserved Capacity:** The maximum amount of capacity and energy that the Transmission Provider agrees to transmit for the Transmission Customer over the Transmission Provider's Transmission System between the Point(s) of Receipt and the Point(s) of Delivery under Part II of the Tariff. Reserved Capacity shall be expressed in terms of whole megawatts on a sixty (60) minute interval (commencing on the clock hour) basis.

- 1.40 Service Agreement:** The initial agreement and any amendments or supplements thereto entered into by the Transmission Customer and the Transmission Provider for service under the Tariff.
- 1.41 Service Commencement Date:** The date the Transmission Provider begins to provide service pursuant to the terms of an executed Service Agreement, or the date the Transmission Provider begins to provide service in accordance with Section 15.3 or Section 29.1 under the Tariff.
- 1.42 Short-Term Firm Point-To-Point Transmission Service:** Firm Point-To-Point Transmission Service under Part II of the Tariff with a term of less than one year.
- 1.43 System Impact Study:** An assessment by the Transmission Provider of (i) the adequacy of the Transmission System to accommodate a request for either Firm Point-To-Point Transmission Service or Network Integration Transmission Service and (ii) whether any additional costs may be incurred in order to provide transmission service.
- 1.44 Third-Party Sale:** Any sale for resale in interstate commerce to a Power Purchaser that is not designated as part of Network Load under the Network Integration Transmission Service but not including a sale of energy through the interchange energy market established under the PJM Interconnection Agreement.
- 1.45 Transmission Customer:** Any Eligible Customer (or its Designated Agent) that (i) executes a Service Agreement, or (ii) requests in writing that the Transmission Provider file with the Commission, a proposed unexecuted Service Agreement to receive transmission service under Part II of the Tariff. This term is used in the Part I Common Service Provisions to include customers receiving transmission service under Part II and Part III of this Tariff.
- 1.46 Transmission Provider:** Collectively, the RTOs or the Designated Agent of the RTOs, which shall be the Office of the Interconnection for the following purposes under this Tariff: operating the PJM Control Area, maintaining an OASIS, receiving and acting on applications for transmission service, conducting system impact and facilities studies, scheduling transactions, directing redispatch, curtailment and interruption, billing and accounting, and disbursement of transmission revenues.

- 1.47 Transmission Provider's Monthly Transmission System Peak:** The maximum firm usage of the Transmission Provider's Transmission System in a calendar month.
- 1.47a Zonal Monthly Transmission System Peak:** The maximum firm usage of the Transmission System in a Zone in a calendar month.
- 1.48 Transmission Service:** Point-To-Point Transmission Service provided under Part II of the Tariff on a firm and non-firm basis.
- 1.49 Transmission System:** The facilities owned, controlled or operated by the Transmission Provider within the PJM Control Area that are used to provide transmission service under Part II and Part III of the Tariff.
- 1.49a Zone:** An area within the PJM Control Area, as set forth in Attachment J.

2 Initial Allocation and Renewal Procedures

- 2.1 Initial Allocation of Available Transmission Capability :** For purposes of determining whether existing capability on the Transmission Provider's Transmission System is adequate to accommodate a request for firm service under this Tariff, all Completed Applications for new firm transmission service received during the initial sixty (60) day period commencing with the effective date of the Tariff will be deemed to have been filed simultaneously. A lottery system conducted by an independent party, which shall be the Office of the Interconnection, shall be used to assign priorities for Completed Applications filed simultaneously. All Completed Applications for firm transmission service received after the initial sixty (60) day period shall be assigned a priority pursuant to Section 13.2.
- 2.2 Reservation Priority For Existing Firm Service Customers:** Existing firm service customers of any RTO (wholesale requirements and transmission-only, with a contract term of one-year or more), have the right to continue to take transmission service from the Transmission Provider when the contract expires, rolls over or is renewed. This transmission reservation priority is independent of whether the existing customer continues to purchase capacity and energy from the RTO or elects to purchase capacity and energy from another supplier. If at the end of the contract term, the Transmission Provider's Transmission System cannot accommodate all of the requests for

transmission service the existing firm service customer must agree to accept a contract term at least equal to a competing request by any new Eligible Customer and to pay the current just and reasonable rate, as approved by the Commission, for such service. This transmission reservation priority for existing firm service customers is an ongoing right that may be exercised at the end of all firm contract terms of one-year or longer.

3 Ancillary Services

Ancillary Services are needed with transmission service to maintain reliability within and among the Control Areas affected by the transmission service. The Transmission Provider is required to provide (or offer to arrange with the local Control Area operator as discussed below), and the Transmission Customer is required to purchase, the following Ancillary Services (i) Scheduling, System Control and Dispatch, and (ii) Reactive Supply and Voltage Control from Generation Sources.

The Transmission Provider is required to offer to provide (or offer to arrange with the local Control Area operator as discussed below) the following Ancillary Services only to the Transmission Customer serving load within the Transmission Provider's Control Area (i) Regulation and Frequency Response, (ii) Energy Imbalance, (iii) Operating Reserve - Spinning, and (iv) Operating Reserve - Supplemental. The Transmission Customer serving load within the Transmission Provider's Control Area is required to acquire these Ancillary Services, whether from the Transmission Provider, from a third party, or by self-supply. The Transmission Customer may not decline the Transmission Provider's offer of Ancillary Services unless it demonstrates that it has acquired the Ancillary Services from another source. The Transmission Customer must list in its Application which Ancillary Services it will purchase from the Transmission Provider.

If the Transmission Provider is a public utility providing transmission service but is not a Control Area operator, it may be unable to provide some or all of the Ancillary Services. In this case, the Transmission Provider can fulfill its obligation to provide Ancillary Services by acting as the Transmission Customer's agent to secure these Ancillary Services from the Control Area operator. The Transmission Customer may elect to (i) have the Transmission Provider act as its agent, (ii) secure the Ancillary Services directly from the Control Area operator, or (iii) secure the Ancillary Services (discussed in Schedules 3, 4, 5 and 6) from a third party or by self-supply when technically feasible.

The Transmission Provider shall specify the rate treatment and all related terms and conditions in the event of an unauthorized use of Ancillary Services by the Transmission Customer.

The specific Ancillary Services, prices and/or compensation methods are described on the Schedules that are attached to and made a part of the Tariff. If the Transmission Provider offers an affiliate a rate discount, or attributes a discounted Ancillary Service rate to its own transactions, the Transmission Provider must offer at the same time the same discounted Ancillary Service rate to all Eligible Customers. Information regarding any discounted Ancillary Service rates must be posted on the OASIS pursuant to Part 37 of the Commission's regulations. In addition, discounts to non-affiliates must be offered in a not unduly discriminatory manner. Sections 3.1 through 3.6 below list the six Ancillary Services.

- 3.1 Scheduling, System Control and Dispatch Service:** The rates and/or methodology are described in Schedule 1.
 - 3.2 Reactive Supply and Voltage Control from Generation Sources Service:** The rates and/or methodology are described in Schedule 2.
 - 3.3 Regulation and Frequency Response Service:** Where applicable the rates and/or methodology are described in Schedule 3.
 - 3.4 Energy Imbalance Service:** Where applicable the rates and/or methodology are described in Schedule 4.
 - 3.5 Operating Reserve - Spinning Reserve Service:** Where applicable the rates and/or methodology are described in Schedule 5.
 - 3.6 Operating Reserve - Supplemental Reserve Service:** Where applicable the rates and/or methodology are described in Schedule 6.
- 4 Open Access Same-Time Information System (OASIS)**

Terms and conditions regarding Open Access Same-Time Information System and standards of conduct are set forth in 18 CFR § 37 of the Commission's regulations (Open Access Same-Time Information System and Standards of Conduct for Public Utilities). For purposes of the Standards of Conduct, a marketing affiliate of any party to the PJM Interconnection Agreement is deemed to be a marketing affiliate of the Transmission Provider. In the event available transmission capability as posted on the OASIS is insufficient to accommodate a request for firm transmission service, additional studies may be required as provided by this Tariff pursuant to Sections 19 and 32.

5 Local Furnishing Bonds

5.1 RTOs That Own Facilities Financed by Local Furnishing Bonds: This provision is applicable only to RTOs that have financed facilities for the local furnishing of electric energy with tax-exempt bonds, as described in Section 142(f) of the Internal Revenue Code ("local furnishing bonds"). Notwithstanding any other provision of this Tariff, such an RTO shall not be required to provide Transmission Service to any Eligible Customer pursuant to this Tariff if the provision of such Transmission Service would jeopardize the tax-exempt status of any local furnishing bond(s) used to finance the RTO's facilities that would be used in providing such Transmission Service.

5.2 Alternative Procedures for Requesting Transmission Service:

- (i) If the RTO determines that the provision of transmission service requested by an Eligible Customer would jeopardize the tax-exempt status of any local furnishing bond(s) used to finance its facilities that would be used in providing such transmission service, it shall advise the Eligible Customer within thirty (30) days of receipt of the Completed Application.
- (ii) If the Eligible Customer thereafter renews its request for the same transmission service referred to in (i) by tendering an application under Section 211 of the Federal Power Act, the RTO, within ten (10) days of receiving a copy of the Section 211 application, will waive its rights to a request for service under Section 213(a) of the Federal Power Act and to the issuance of a proposed order under Section 212(c) of the Federal Power Act and shall provide the requested transmission service in accordance with the terms and conditions of this Tariff.

6 Reciprocity

A Transmission Customer receiving transmission service under this Tariff agrees to provide comparable transmission service to each RTO on similar terms and conditions over facilities used for the transmission of electric energy in interstate commerce owned, controlled or operated by the Transmission Customer and over facilities used for the transmission of electric energy in interstate commerce owned, controlled or operated by the Transmission Customer's corporate affiliates. A Transmission Customer that is a member of a power pool or Regional Transmission Group also agrees to provide comparable transmission service to the members of such power pool and Regional Transmission Group

on similar terms and conditions over facilities used for the transmission of electric energy in interstate commerce owned, controlled or operated by the Transmission Customer and over facilities used for the transmission of electric energy in interstate commerce owned, controlled or operated by the Transmission Customer's corporate affiliates. This reciprocity requirement also applies to any Eligible Customer that owns, controls or operates transmission facilities that uses an intermediary, such as a power marketer, to request transmission service under the Tariff. If the Transmission Customer does not own, control or operate transmission facilities, it must include in its Application a sworn statement of one of its duly authorized officers or other representatives that the purpose of its Application is not to assist an Eligible Customer to avoid the requirements of this provision.

7 Billing and Payment

- 7.1 Billing Procedure:** By the fifth working day of each month, the Transmission Provider shall submit an invoice to the Transmission Customer for the charges for all services furnished under the Tariff during the preceding month. The invoice shall be paid by the Transmission Customer by the first banking day following the 19th of the month in which the invoice was issued. All payments shall be made in immediately available funds payable to the Transmission Provider, or by wire transfer to a bank named by the Transmission Provider.
- 7.2 Interest on Unpaid Balances:** Interest on any unpaid amounts (including amounts placed in escrow) shall be calculated in accordance with the methodology specified for interest on refunds in the Commission's regulations at 18 C.F.R. § 35.19a(a)(2)(iii). Interest on delinquent amounts shall be calculated from the due date of the bill to the date of payment. When payments are made by mail, bills shall be considered as having been paid on the date of receipt by the Transmission Provider.
- 7.3 Customer Default:** In the event the Transmission Customer fails, for any reason other than a billing dispute as described below, to make payment to the Transmission Provider on or before the due date as described above, and such failure of payment is not corrected within thirty (30) calendar days after the Transmission Provider notifies the Transmission Customer to cure such failure, a default by the Transmission Customer shall be deemed to exist. Upon the occurrence of a default, the Transmission Provider may initiate a proceeding with the Commission to terminate service but shall not terminate service until the Commission so approves any such request. In the event of a billing dispute between the Transmission Provider and the Transmission

Customer, the Transmission Provider will continue to provide service under the Service Agreement as long as the Transmission Customer (i) continues to make all payments not in dispute, and (ii) pays into an independent escrow account the portion of the invoice in dispute, pending resolution of such dispute. If the Transmission Customer fails to meet these two requirements for continuation of service, then the Transmission Provider may provide notice to the Transmission Customer of its intention to suspend service in sixty (60) days, in accordance with Commission policy.

8 Accounting for an RTO's Use of the Tariff Each RTO shall record the following amounts, as outlined below.

8.1 Transmission Revenues: Include in a separate operating revenue account or subaccount the revenues it receives from Transmission Service when making Third-Party Sales under Part II of the Tariff.

8.2 Study Costs and Revenues: Include in a separate transmission operating expense account or subaccount, costs properly chargeable to expense that are incurred to perform any System Impact Studies or Facilities Studies which the RTO conducts to determine if it must construct new transmission facilities or upgrades necessary for its own uses, including making Third-Party Sales under the Tariff; and include in a separate operating revenue account or subaccount the revenues received for System Impact Studies or Facilities Studies performed when such amounts are separately stated and identified in the Transmission Customer's billing under the Tariff.

9 Regulatory Filings

Nothing contained in the Tariff , any Service Agreement or any Network Operating Agreement shall be construed as affecting in any way the right of any RTO to unilaterally make application to the Commission for a change in rates, terms and conditions, charges, classification of service, Service Agreement, Network Operating Agreement, rule or regulation under Section 205 of the Federal Power Act and pursuant to the Commission's rules and regulations promulgated thereunder.

Nothing contained in the Tariff , any Service Agreement or any Network Operating Agreement shall be construed as affecting in any way the ability of any Party receiving service under the Tariff to exercise its rights under the Federal Power Act and pursuant to the Commission's rules and regulations promulgated thereunder.

10 Force Majeure and Indemnification

10.1 Force Majeure: An event of Force Majeure means any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any Curtailment, order, regulation or restriction imposed by governmental military or lawfully established civilian authorities, or any other cause beyond a Party's control. Neither the Transmission Provider nor the Transmission Customer will be considered in default as to any obligation under this Tariff if prevented from fulfilling the obligation due to an event of Force Majeure. However, a Party whose performance under this Tariff is hindered by an event of Force Majeure shall make all reasonable efforts to perform its obligations under this Tariff.

10.2 Indemnification: The Transmission Customer shall at all times indemnify, defend, and save each RTO and the Transmission Provider harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the Transmission Provider's performance of its obligations under this Tariff on behalf of the Transmission Customer, except in cases of negligence or intentional wrongdoing by an RTO or the Transmission Provider.

11 Creditworthiness

For the purpose of determining the ability of the Transmission Customer to meet its obligations related to service hereunder, the Transmission Provider may require reasonable credit review procedures. This review shall be made in accordance with standard commercial practices. In addition, the Transmission Provider may require the Transmission Customer to provide and maintain in effect during the term of the Service Agreement, an unconditional and irrevocable letter of credit as security to meet its responsibilities and obligations under the Tariff, or an alternative form of security proposed by the Transmission Customer and acceptable to the Transmission Provider and consistent with commercial practices established by the Uniform Commercial Code that protects the Transmission Provider against the risk of non-payment.

12 Dispute Resolution Procedures

- 12.1 Internal Dispute Resolution Procedures:** Any dispute between a Transmission Customer and the Transmission Provider involving Transmission Service under the Tariff (excluding applications for rate changes or other changes to the Tariff, or to any Service Agreement entered into under the Tariff, which shall be presented directly to the Commission for resolution) shall be referred to a designated senior representative of each of the parties to the dispute for resolution on an informal basis as promptly as practicable. In the event the designated representatives are unable to resolve the dispute within thirty (30) days (or such other period as the parties to the dispute may agree upon) by mutual agreement, such dispute may be submitted to arbitration and resolved in accordance with the arbitration procedures set forth below.
- 12.2 External Arbitration Procedures:** Any arbitration initiated under the Tariff shall be conducted before a single neutral arbitrator appointed by the parties to the dispute. If the parties to the dispute fail to agree upon a single arbitrator within ten (10) days of the referral of the dispute to arbitration, the party or parties to the dispute demanding arbitration shall choose one arbitrator and the party or parties responding to the demand for arbitration shall choose another arbitrator, each of whom shall sit on a three-member arbitration panel. The two arbitrators so chosen shall within twenty (20) days select a third arbitrator to chair the arbitration panel. In either case, the arbitrators shall be knowledgeable in electric utility matters, including electric transmission and bulk power issues, and shall not have any current or past substantial business or financial relationships with any party to the arbitration (except prior arbitration). The arbitrator(s) shall provide each of the parties to the dispute an opportunity to be heard and, except as otherwise provided herein, shall generally conduct the arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association and any applicable Commission regulations.
- 12.3 Arbitration Decisions:** Unless otherwise agreed, the arbitrator(s) shall render a decision within ninety (90) days of appointment and shall notify the parties to the dispute in writing of such decision and the reasons therefor. The arbitrator(s) shall be authorized only to interpret and apply the provisions of the Tariff and any Service Agreement entered into under the Tariff and shall have no power to modify or change any of the above in any manner. The decision of the arbitrator(s) shall be final and binding upon the Parties, and judgment on the award may be entered in any court having jurisdiction. The decision of the arbitrator(s) may be appealed solely on the grounds that the conduct of the arbitrator(s), or the decision itself, violated the standards set

forth in the Federal Arbitration Act and/or the Administrative Dispute Resolution Act. The final decision of the arbitrator must also be filed with the Commission if it affects jurisdictional rates, terms and conditions of service or facilities.

12.4 Costs: Each party to the dispute shall be responsible for its own costs incurred during the arbitration process and for the following costs, if applicable:

- (A) the cost of the arbitrator chosen by the parties to the dispute to sit on the three member panel and a proportionate share of the cost of the third arbitrator chosen;
- (B) a proportionate share of the cost of the single arbitrator jointly chosen by the parties to the dispute; or
- (C) a proportionate share of the cost incurred by the Office of the Interconnection related to a dispute not involving the Office of the Interconnection.

12.5 Rights Under The Federal Power Act: Nothing in this section shall restrict the rights of any party to file a Complaint with the Commission under relevant provisions of the Federal Power Act.

II. POINT-TO-POINT TRANSMISSION SERVICE**Preamble**

The Transmission Provider will provide Firm and Non-Firm Point-To-Point Transmission Service pursuant to the applicable terms and conditions of this Tariff. Point-To-Point Transmission Service is for the receipt of capacity and energy at designated Point(s) of Receipt and the transmission of such capacity and energy to designated Point(s) of Delivery.

13 Nature of Firm Point-To-Point Transmission Service

- 13.1 Term:** The minimum term of Firm Point-To-Point Transmission Service shall be one day and the maximum term shall be specified in the Service Agreement.
- 13.2 Reservation Priority:** Long-Term Firm Point-To-Point Transmission Service shall be available on a first-come, first-served basis *i.e.*, in the chronological sequence in which each Transmission Customer has reserved service. Reservations for Short-Term Firm Point-To-Point Transmission Service will be conditional based upon the length of the requested transaction. If the Transmission System becomes oversubscribed, requests for longer term service may preempt requests for shorter term service up to the following deadlines; one day before the commencement of daily service, one week before the commencement of weekly service, and one month before the commencement of monthly service. Before the deadline, if available transmission capability is insufficient to satisfy all Applications, an Eligible Customer with a reservation for shorter term service has the right of first refusal to match any longer term reservation before losing its reservation priority. After the deadline, service will commence pursuant to the terms of Part II of the Tariff. Firm Point-To-Point Transmission Service will always have a reservation priority over Non-Firm Point-To-Point Transmission Service under the Tariff. All Long-Term Firm Point-To-Point Transmission Service will have equal reservation priority with Native Load Customers and Network Customers. Reservation priorities for existing firm service customers are provided in Section 2.2.
- 13.3 Use of Firm Transmission Service by an RTO:** Each RTO will be subject to the rates, terms and conditions of Part II of the Tariff when making Third-Party Sales under (i) agreements executed on or after March 1, 1997 or (ii) agreements executed prior to the aforementioned date that the Commission

requires to be unbundled, by the date specified by the Commission. Each RTO will maintain separate accounting, pursuant to Section 8, for any use of the Point-To-Point Transmission Service to make Third-Party Sales.

- 13.4 Service Agreements:** The Transmission Provider shall offer a standard form Firm Point-To-Point Transmission Service Agreement (Attachment A) to an Eligible Customer when it submits a Completed Application for Firm Point-To-Point Transmission Service. Executed Service Agreements that contain the information required under the Tariff shall be filed with the Commission in compliance with applicable Commission regulations.
- 13.5 Transmission Customer Obligations for Facility Additions or Redispatch Costs:** In cases where the Transmission Provider determines that the Transmission System is not capable of providing Firm Point-To-Point Transmission Service without (1) degrading or impairing the reliability of service to Native Load Customers, Network Customers and other Transmission Customers taking Firm Point-To-Point Transmission Service, or (2) interfering with the Transmission Provider's ability to meet prior firm contractual commitments to others, the Transmission Provider will be obligated to expand or upgrade the Transmission System pursuant to the terms of Section 15.4. The Transmission Customer must agree to compensate the Transmission Provider for any necessary transmission facility additions pursuant to the terms of Section 27. To the extent the Transmission Provider can relieve any system constraint more economically by redispatching resources available to the PJM Control Area than through constructing Network Upgrades, it shall do so, provided that the Eligible Customer agrees to compensate the Transmission Provider pursuant to the terms of Section 27. Any redispatch, Network Upgrade or Direct Assignment Facilities costs to be charged to the Transmission Customer under the Tariff will be specified in the Service Agreement prior to initiating service.
- 13.6 Curtailment of Firm Transmission Service:** In the event that a Curtailment on the Transmission Provider's Transmission System, or a portion thereof, is required to maintain reliable operation of such system, Curtailments will be made on a non-discriminatory basis to the transaction(s) that effectively relieve the constraint. If multiple transactions require Curtailment, to the extent practicable and consistent with Good Utility Practice, Curtailments will be proportionally allocated among the Transmission Provider's Native Load Customers, Network Customers, and Transmission Customers taking Firm Point-To-Point Transmission Service. All Curtailments will be made on a

non-discriminatory basis, however, Non-Firm Point-To-Point Transmission Service shall be subordinate to Firm Transmission Service and Non-Firm Point-To-Point Transmission Service for which redispatch costs will not be paid shall be subordinate to Non-Firm Point-To-Point Transmission Service for which redispatch costs will be paid. When the Transmission Provider determines that an electrical emergency exists on the Transmission System and implements emergency procedures to Curtail Firm Transmission Service, the Transmission Customer shall make the required reductions upon request of the Transmission Provider. However, the Transmission Provider reserves the right to Curtail, in whole or in part, any Firm Transmission Service provided under the Tariff when, in the Transmission Provider's sole discretion, an emergency or other unforeseen condition impairs or degrades the reliability of the Transmission System. The Transmission Provider will notify all affected Transmission Customers in a timely manner of any scheduled Curtailments.

13.7 Classification of Firm Transmission Service:

- (a) The Transmission Customer taking Firm Point-To-Point Transmission Service may (1) change its Receipt and Delivery Points to obtain service on a non-firm basis consistent with the terms of Section 22.1 or (2) request a modification of the Points of Receipt or Delivery on a firm basis pursuant to the terms of Section 22.2.
- (b) The Transmission Customer may purchase transmission service to make sales of capacity and energy from multiple generating units that are on the Transmission Provider's Transmission System. For such a purchase of transmission service, the resources will be designated as multiple Points of Receipt, unless the multiple generating units are at the same generating plant in which case the units would be treated as a single Point of Receipt.
- (c) The Transmission Provider shall provide firm deliveries of capacity and energy from the Point(s) of Receipt to the Point(s) of Delivery. Each Point of Receipt at which firm transmission capacity is reserved by the Transmission Customer shall be set forth in the Firm Point-To-Point Service Agreement along with a corresponding capacity reservation associated with each Point of Receipt. Each Point of Delivery at which firm transmission capacity is reserved by the Transmission Customer shall be set forth in the Firm Point-To-Point Service Agreement along with a corresponding capacity reservation associated with each Point of

Delivery. The greater of either (1) the sum of the capacity reservations at the Point(s) of Receipt, or (2) the sum of the capacity reservations at the Point(s) of Delivery shall be the Transmission Customer's Reserved Capacity. The Transmission Customer will be billed for its Reserved Capacity under the terms of Schedule 7. The Transmission Customer may not exceed its firm capacity reserved at each Point of Receipt and each Point of Delivery except as otherwise specified in Section 22. In the event the Transmission Customer (including Third Party Sales by an RTO) exceeds its firm capacity reserved at any Point of Receipt or Point of Delivery, except as otherwise specified in Section 22, the Transmission Customer shall pay the rate set forth in Schedule 7 for the delivery period (*i.e.*, annually, monthly, weekly or daily) for which the Transmission Customer is reserving capacity multiplied by an adjusted reserved capacity (for pricing purposes only) equal to the highest level used by the Transmission Customer at such Point of Receipt or Point of Delivery as integrated over a 60 minute period.

- 13.8 Scheduling of Firm Point-To-Point Transmission Service:** Schedules for the Transmission Customer's Firm Point-To-Point Transmission Service must be submitted to the Transmission Provider no later than 10:00 a.m. (eastern) of the day prior to commencement of such service. Schedules submitted after 10:00 a.m. (eastern) will be accommodated, if practicable. Hour-to-hour schedules of any capacity and energy that is to be delivered must be stated in increments of 1,000 kW per hour. Transmission Customers within the PJM Control Area with multiple requests for Transmission Service at a Point of Receipt, each of which is under 1,000 kW per hour, may consolidate their service requests at a common point of receipt into units of 1,000 kW per hour for scheduling and billing purposes. Scheduling changes will be permitted up to thirty (30) minutes before the start of the next clock hour provided that the Delivering Party and Receiving Party also agree to the schedule modification. The Transmission Provider will furnish to the Delivering Party's system operator, hour-to-hour schedules equal to those furnished by the Receiving Party (unless reduced for losses) and shall deliver the capacity and energy provided by such schedules. Should the Transmission Customer, Delivering Party or Receiving Party revise or terminate any schedule, such party shall immediately notify the Transmission Provider, and the Transmission Provider shall have the right to adjust accordingly the schedule for capacity and energy to be received and to be delivered.

14 Nature of Non-Firm Point-To-Point Transmission Service

- 14.1 Term:** Non-Firm Point-To-Point Transmission Service will be available for periods ranging from one (1) hour to one (1) month. However, a Purchaser of Non-Firm Point-To-Point Transmission Service will be entitled to reserve a sequential term of service (such as a sequential monthly term without having to wait for the initial term to expire before requesting another monthly term) so that the total time period for which the reservation applies is greater than one month, subject to the requirements of Section 18.3.
- 14.2 Reservation Priority:** Non-Firm Point-To-Point Transmission Service shall be available from transmission capability in excess of that needed for reliable service to Native Load Customers, Network Customers and other Transmission Customers taking Long-Term and Short-Term Firm Point-To-Point Transmission Service. A higher priority will be assigned to reservations with a longer duration of service. In the event the Transmission System is constrained, competing requests of equal duration will be prioritized based on the highest price offered by the Eligible Customer for the Transmission Service. Eligible Customers that have already reserved shorter term service have the right of first refusal to match any longer term reservation before being preempted. Transmission service for Network Customers from resources other than designated Network Resources will have a higher priority than any Non-Firm Point-To-Point Transmission Service. Non-Firm Point-To-Point Transmission Service over secondary Point(s) of Receipt and Point(s) of Delivery will have the lowest reservation priority under the Tariff.
- 14.3 Use of Non-Firm Point-To-Point Transmission Service by an RTO:** Each RTO will be subject to the rates, terms and conditions of Part II of the Tariff when making Third-Party Sales under (i) agreements executed on or after March 1, 1997 or (ii) agreements executed prior to the aforementioned date that the Commission requires to be unbundled, by the date specified by the Commission. The RTO will maintain separate accounting, pursuant to Section 8, for any use of Non-Firm Point-To-Point Transmission Service to make Third-Party Sales.
- 14.4 Service Agreements:** The Transmission Provider shall offer a standard form Non-Firm Point-To-Point Transmission Service Agreement (Attachment B) to an Eligible Customer when it first submits a Completed Application for Non-Firm Point-To-Point Transmission Service pursuant to the Tariff. Executed Service Agreements that contain the information required under the Tariff shall

be filed with the Commission in compliance with applicable Commission regulations.

- 14.5 Classification of Non-Firm Point-To-Point Transmission Service:** Non-Firm Point-To-Point Transmission Service shall be offered under terms and conditions contained in Part II of the Tariff. The Transmission Provider undertakes no obligation under the Tariff to plan the Transmission System in order to have sufficient capacity for Non-Firm Point-To-Point Transmission Service. Parties requesting Non-Firm Point-To-Point Transmission Service for the transmission of firm power do so with the full realization that such service is subject to availability and to Curtailment or Interruption under the terms of the Tariff. In the event the Transmission Customer (including Third Party Sales by an RTO) exceeds its non-firm capability reserved at any Point of Receipt or Point of Delivery, the Transmission Customer shall pay the rate set forth in Schedule 8 for the delivery period (*i.e.*, monthly, weekly, daily or hourly) for which the Transmission Customer is reserving capacity multiplied by an adjusted reserved capacity (for pricing purposes only) equal to the highest level used by the Transmission Customer at such Point of Receipt or Point of Delivery as integrated over a 60 minute period. Non-Firm Point-To-Point Transmission Service shall include transmission of energy on an hourly basis and transmission of scheduled short-term capacity and energy on a daily, weekly or monthly basis, but not to exceed one month's reservation for any one Application, under Schedule 8.
- 14.6 Scheduling of Non-Firm Point-To-Point Transmission Service:** Schedules for Non-Firm Point-To-Point Transmission Service must be submitted to the Transmission Provider no later than 2:00 p.m. (eastern) of the day prior to the commencement of such service. Schedules submitted after 2:00 p.m. (eastern) will be accommodated, if practicable. Hour-to-hour schedules of energy that is to be delivered must be stated in increments of 1,000 kW per hour. Transmission Customers within the PJM Control Area with multiple requests for Transmission Service at a Point of Receipt, each of which is under 1,000 kW per hour, may consolidate their schedules at a common Point of Receipt into units of 1,000 kW per hour. Scheduling changes will be permitted up to thirty (30) minutes before the start of the next clock hour provided that the Delivering Party and Receiving Party also agree to the schedule modification. The Transmission Provider will furnish to the Delivering Party's system operator, hour-to-hour schedules equal to those furnished by the Receiving Party (unless reduced for losses) and shall deliver the capacity and energy provided by such schedules. Should the Transmission Customer, Delivering

Party or Receiving Party revise or terminate any schedule, such party shall immediately notify the Transmission Provider, and the Transmission Provider shall have the right to adjust accordingly the schedule for capacity and energy to be received and to be delivered.

- 14.7 Curtailment or Interruption of Service:** The Transmission Provider reserves the right to Curtail, in whole or in part, Non-Firm Point-To-Point Transmission Service provided under the Tariff for reliability reasons when, an emergency or other unforeseen condition threatens to impair or degrade the reliability of the Transmission System. The Transmission Provider reserves the right to Interrupt, in whole or in part, Non-Firm Point-To-Point Transmission Service provided under the Tariff for economic reasons in order to accommodate (1) a request for Firm Transmission Service, (2) a request for Non-Firm Point-To-Point Transmission Service of greater duration, (3) a request for Non-Firm Point-To-Point Transmission Service of equal duration with a higher price, or (4) transmission service for Network Customers from non-designated resources. The Transmission Provider also will discontinue or reduce service to the Transmission Customer to the extent that deliveries for transmission are discontinued or reduced at the Point(s) of Receipt. Where required, Curtailments or Interruptions will be made on a non-discriminatory basis to the transaction(s) that effectively relieve the constraint, however, Non-Firm Point-To-Point Transmission Service shall be subordinate to Firm Transmission Service and Non-Firm Point-To-Point Transmission Service for which redispatch costs will not be paid shall be subordinate to Non-Firm Point-To-Point Transmission Service for which redispatch costs will be paid. If multiple transactions require Curtailment or Interruption, to the extent practicable and consistent with Good Utility Practice, Curtailments or Interruptions will be made to transactions of the shortest term (e.g., hourly non-firm transactions will be Curtailed or Interrupted before daily non-firm transactions and daily non-firm transactions will be Curtailed or Interrupted before weekly non-firm transactions). Transmission service for Network Customers from resources other than designated Network Resources will have a higher priority than any Non-Firm Point-To-Point Transmission Service under the Tariff. Non-Firm Point-To-Point Transmission Service over secondary Point(s) of Receipt and Point(s) of Delivery will have a lower priority than any Non-Firm Point-To-Point Transmission Service under the Tariff.

The Transmission Provider will provide advance notice of Curtailment or Interruption where such notice can be provided consistent with Good Utility Practice.

15 Service Availability

- 15.1 General Conditions:** The Transmission Provider will provide Firm and Non-Firm Point-To-Point Transmission Service over, on or across the Transmission System to any Transmission Customer that has met the requirements of Section 16.
- 15.2 Determination of Available Transmission Capability:** A description of the Transmission Provider's specific methodology for assessing available transmission capability posted on the Transmission Provider's OASIS (Section 4) is contained in Attachment C of the Tariff. In the event sufficient transmission capability may not exist to accommodate a service request, the Transmission Provider will respond by performing a System Impact Study.
- 15.3 Initiating Service in the Absence of an Executed Service Agreement:** If the Transmission Provider and the Transmission Customer requesting Firm or Non-Firm Point-To-Point Transmission Service cannot agree on all the terms and conditions of the Point-To-Point Service Agreement, the Transmission Provider shall file with the Commission, within thirty (30) days after the date the Transmission Customer provides written notification directing the Transmission Provider to file, an unexecuted Point-To-Point Service Agreement containing terms and conditions deemed appropriate by the Transmission Provider for such requested Transmission Service. The Transmission Provider shall commence providing Transmission Service subject to the Transmission Customer agreeing to (i) compensate the Transmission Provider at whatever rate the Commission ultimately determines to be just and reasonable, and (ii) comply with the terms and conditions of the Tariff including posting appropriate security deposits in accordance with the terms of Section 17.3.
- 15.4 Obligation to Provide Transmission Service that Requires Expansion or Modification of the Transmission System:** If the Transmission Provider determines that it cannot accommodate a Completed Application for Firm Point-To-Point Transmission Service because of insufficient capability on the Transmission System, the Transmission Provider will use due diligence to expand or modify the Transmission System to provide the requested Firm

Transmission Service, provided the Transmission Customer agrees to compensate the Transmission Provider for such costs pursuant to the terms of Section 27. The Transmission Provider will conform to Good Utility Practice in determining the need for new facilities and in the design and construction of such facilities. The obligation applies only to those facilities that the Transmission Provider has the right to expand or modify.

- 15.5 Deferral of Service:** The Transmission Provider may defer providing service until it completes construction of new transmission facilities or upgrades needed to provide Firm Point-To-Point Transmission Service whenever the Transmission Provider determines that providing the requested service would, without such new facilities or upgrades, impair or degrade reliability to any existing firm services.
- 15.6 Other Transmission Service Schedules:** Eligible Customers receiving transmission service under other agreements on file with the Commission may continue to receive transmission service under those agreements until such time as those agreements may be modified by the Commission.
- 15.7 Real Power Losses:** Real Power Losses are associated with all transmission service. The Transmission Provider is not obligated to provide Real Power Losses. The Transmission Customer is responsible for replacing losses associated with all transmission service as calculated by the Transmission Provider. The applicable Real Power Loss factors are as follows: 3 percent for on-peak hours and 2.5 percent for off-peak hours, as on-peak and off-peak are defined by NERC, which shall be supplied as set forth in Attachment K.

16 Transmission Customer Responsibilities

- 16.1 Conditions Required of Transmission Customers:** Point-To-Point Transmission Service shall be provided by the Transmission Provider only if the following conditions are satisfied by the Transmission Customer:
- a. The Transmission Customer has pending a Completed Application for service;
 - b. The Transmission Customer meets the creditworthiness criteria set forth in Section 11;

- c. The Transmission Customer will have arrangements in place for any other transmission service necessary to effect the delivery from the generating source to the Transmission Provider prior to the time service under Part II of the Tariff commences;
- d. The Transmission Customer agrees to pay for any facilities constructed and chargeable to such Transmission Customer under Part II of the Tariff, whether or not the Transmission Customer takes service for the full term of its reservation;
- e. The Transmission Customer has executed a Point-To-Point Service Agreement or has agreed to receive service pursuant to Section 15.3; and
- f. The Transmission Customer complies with the standards for operating and planning reliable bulk electric systems, including any requirement for adequate generating reserves, of NERC and the regional reliability council for the Control Area in which the capacity and energy transmitted by the Transmission Provider will be delivered to a load.

16.2 Transmission Customer Responsibility for Third-Party Arrangements: Any scheduling arrangements that may be required by other electric systems shall be the responsibility of the Transmission Customer requesting service. The Transmission Customer shall provide, unless waived by the Transmission Provider, notification to the Transmission Provider identifying such systems and authorizing them to schedule the capacity and energy to be transmitted by the Transmission Provider pursuant to Part II of the Tariff on behalf of the Receiving Party at the Point of Delivery or the Delivering Party at the Point of Receipt. However, the Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in making such arrangements, including without limitation, providing any information or data required by such other electric system pursuant to Good Utility Practice.

17 Procedures for Arranging Firm Point-To-Point Transmission Service

17.1 Application: A request for Firm Point-To-Point Transmission Service for periods of one year or longer must contain a written Application to: PJM Interconnection Association, 955 Jefferson Avenue, Valley Forge Corporate Center, Norristown, PA 19403-2497, at least sixty (60) days in advance of the calendar month in which service is to commence. The Transmission Provider

will consider requests for such firm service on shorter notice when feasible. Requests for firm service for periods of less than one year shall be subject to expedited procedures that shall be negotiated between the Parties within the time constraints provided in Section 17.5. All Firm Point-To-Point Transmission Service requests should be submitted by entering the information listed below on the Transmission Provider's OASIS. Prior to implementation of the Transmission Provider's OASIS, a Completed Application may be submitted by (i) transmitting the required information to the Transmission Provider by telefax, or (ii) providing the information by telephone over the Transmission Provider's time recorded telephone line. Each of these methods will provide a time-stamped record for establishing the priority of the Application.

17.2 Completed Application: A Completed Application shall provide all of the information included in 18 CFR § 2.20 including but not limited to the following:

- (i) The identity, address, telephone number and facsimile number of the entity requesting service;
- (ii) A statement that the entity requesting service is, or will be upon commencement of service, an Eligible Customer under the Tariff;
- (iii) The location of the Point(s) of Receipt and Point(s) of Delivery and the identities of the Delivering Parties and the Receiving Parties;
- (iv) The location of the generating facility(ies) supplying the capacity and energy and the location of the load ultimately served by the capacity and energy transmitted. The Transmission Provider will treat this information as confidential except to the extent that disclosure of this information is required by this Tariff, by regulatory or judicial order, for reliability purposes pursuant to Good Utility Practice or pursuant to MAAC transmission information sharing agreements. The Transmission Provider shall treat this information consistent with the standards of conduct contained in Part 37 of the Commission's regulations;

- (v) A description of the supply characteristics of the capacity and energy to be delivered;
- (vi) An estimate of the capacity and energy expected to be delivered to the Receiving Party;
- (vii) The Service Commencement Date and the term of the requested Transmission Service; and
- (viii) The transmission capacity requested for each Point of Receipt and each Point of Delivery on the Transmission Provider's Transmission System; customers may combine their requests for service in order to satisfy the minimum transmission capacity requirement.

The Transmission Provider shall treat this information consistent with the standards of conduct contained in Part 37 of the Commission's regulations.

17.3 Deposit: A Completed Application for Firm Point-To-Point Transmission Service also shall include a deposit of either one month's charge for Reserved Capacity or the full charge for Reserved Capacity for service requests of less than one month. If the Application is rejected by the Transmission Provider because it does not meet the conditions for service as set forth herein, or in the case of requests for service arising in connection with losing bidders in a Request For Proposals (RFP), said deposit shall be returned with interest less any reasonable costs incurred by the Transmission Provider in connection with the review of the losing bidder's Application. The deposit also will be returned with interest less any reasonable costs incurred by the Transmission Provider if the Transmission Provider is unable to complete new facilities needed to provide the service. If an Application is withdrawn or the Eligible Customer decides not to enter into a Service Agreement for Firm Point-To-Point Transmission Service, the deposit shall be refunded in full, with interest, less reasonable costs incurred by the Transmission Provider to the extent such costs have not already been recovered by the Transmission Provider from the Eligible Customer. The Transmission Provider will provide to the Eligible Customer a complete accounting of all costs deducted from the refunded deposit, which the Eligible Customer may contest if there is a dispute concerning the deducted costs. Deposits associated with construction of new facilities are subject to the provisions of Section 19. If a Service Agreement for Firm Point-To-Point Transmission Service is executed, the deposit, with

interest, will be returned to the Transmission Customer upon expiration of the Service Agreement for Firm Point-To-Point Transmission Service. Applicable interest shall be computed in accordance with the Commission's regulations at 18 CFR § 35.19a(a)(2)(iii), and shall be calculated from the day the deposit check is credited to the Transmission Provider's account.

- 17.4 Notice of Deficient Application:** If an Application fails to meet the requirements of the Tariff, the Transmission Provider shall notify the entity requesting service within fifteen (15) days of receipt of the reasons for such failure. The Transmission Provider will attempt to remedy minor deficiencies in the Application through informal communications with the Eligible Customer. If such efforts are unsuccessful, the Transmission Provider shall return the Application, along with any deposit, with interest. Upon receipt of a new or revised Application that fully complies with the requirements of Part II of the Tariff, the Eligible Customer shall be assigned a new priority consistent with the date of the new or revised Application.
- 17.5 Response to a Completed Application:** Following receipt of a Completed Application for Firm Point-To-Point Transmission Service, the Transmission Provider shall make a determination of available transmission capability as required in Section 15.2. The Transmission Provider shall notify the Eligible Customer as soon as practicable, but not later than thirty (30) days after the date of receipt of a Completed Application either (i) if it will be able to provide service without performing a System Impact Study or (ii) if such a study is needed to evaluate the impact of the Application pursuant to Section 19.1.
- 17.6 Execution of Service Agreement:** Whenever the Transmission Provider determines that a System Impact Study is not required and that the service can be provided, it shall notify the Eligible Customer as soon as practicable but no later than thirty (30) days after receipt of the Completed Application. Where a System Impact Study is required, the provisions of Section 19 will govern the execution of a Service Agreement. Failure of an Eligible Customer to execute and return the Service Agreement or request the filing of an unexecuted service agreement pursuant to Section 15.3, within fifteen (15) days after it is tendered by the Transmission Provider will be deemed a withdrawal and termination of the Application and any deposit submitted shall be refunded with interest. Nothing herein limits the right of an Eligible Customer to file another Application after such withdrawal and termination.

17.7 Extensions for Commencement of Service: The Transmission Customer can obtain up to five (5) one-year extensions for the commencement of service. The Transmission Customer may postpone service by paying a non-refundable annual reservation fee equal to one-month's charge for Firm Transmission Service for each year or fraction thereof. If during any extension for the commencement of service an Eligible Customer submits a Completed Application for Firm Transmission Service, and such request can be satisfied only by releasing all or part of the Transmission Customer's Reserved Capacity, the original Reserved Capacity will be released unless the following condition is satisfied. Within thirty (30) days, the original Transmission Customer agrees to pay the Firm Point-To-Point transmission rate for its Reserved Capacity concurrent with the new Service Commencement Date. In the event the Transmission Customer elects to release the Reserved Capacity, the reservation fees or portions thereof previously paid will be forfeited.

18 Procedures for Arranging Non-Firm Point-To-Point Transmission Service

18.1 Application: Eligible Customers seeking Non-Firm Point-To-Point Transmission Service must submit a Completed Application to the Transmission Provider. Applications should be submitted by entering the information listed below on the Transmission Provider's OASIS. Prior to implementation of the Transmission Provider's OASIS, a Completed Application may be submitted by (i) transmitting the required information to the Transmission Provider by telefax, or (ii) providing the information by telephone over the Transmission Provider's time recorded telephone line. Each of these methods will provide a time-stamped record for establishing the service priority of the Application.

18.2 Completed Application: A Completed Application shall provide all of the information included in 18 CFR § 2.20 including but not limited to the following:

- (i) The identity, address, telephone number and facsimile number of the entity requesting service;
- (ii) A statement that the entity requesting service is, or will be upon commencement of service, an Eligible Customer under the Tariff;
- (iii) The Point(s) of Receipt and the Point(s) of Delivery;

- (iv) The maximum amount of capacity requested at each Point of Receipt and Point of Delivery; and
- (v) The proposed dates and hours for initiating and terminating transmission service hereunder.

In addition to the information specified above, when required to properly evaluate system conditions, the Transmission Provider also may ask the Transmission Customer to provide the following:

- (vi) The electrical location of the initial source of the power to be transmitted pursuant to the Transmission Customer's request for service; and
- (vii) The electrical location of the ultimate load.

The Transmission Provider will treat this information in (vi) and (vii) as confidential at the request of the Transmission Customer except to the extent that disclosure of this information is required by this Tariff, by regulatory or judicial order, for reliability purposes pursuant to Good Utility Practice, or pursuant to MAAC transmission information sharing agreements. The Transmission Provider shall treat this information consistent with the standards of conduct contained in Part 37 of the Commission's regulations.

18.3 Reservation of Non-Firm Point-To-Point Transmission Service: Requests for monthly service shall be submitted no earlier than sixty (60) days before service is to commence; requests for weekly service shall be submitted no earlier than fourteen (14) days before service is to commence, requests for daily service shall be submitted no earlier than two (2) days before service is to commence, and requests for hourly service shall be submitted no earlier than noon the day before service is to commence. Requests for service received later than 2:00 p.m.(eastern) prior to the day service is scheduled to commence will be accommodated if practicable.

18.4 Determination of Available Transmission Capability: Following receipt of a tendered schedule the Transmission Provider will make a determination on a non-discriminatory basis of available transmission capability pursuant to Section 15.2. Such determination shall be made as soon as reasonably practicable after receipt, but not later than the following time periods for the following terms of service (i) thirty (30) minutes for hourly service, (ii) thirty

(30) minutes for daily service, (iii) four (4) hours for weekly service, and (iv) two (2) days for monthly service.

19 Additional Study Procedures For Firm Point-To-Point Transmission Service Requests

19.1 Notice of Need for System Impact Study: After receiving a request for service, the Transmission Provider shall determine on a non-discriminatory basis whether a System Impact Study is needed. A description of the Transmission Provider's methodology for completing a System Impact Study is provided in Attachment D. If the Transmission Provider determines that a System Impact Study is necessary to accommodate the requested service, it shall so inform the Eligible Customer, as soon as practicable. In such cases, the Transmission Provider shall within thirty (30) days of receipt of a Completed Application, tender a System Impact Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the required System Impact Study. For a service request to remain a Completed Application, the Eligible Customer shall execute the System Impact Study Agreement and return it to the Transmission Provider within fifteen (15) days. If the Eligible Customer elects not to execute the System Impact Study Agreement, its application shall be deemed withdrawn and its deposit, pursuant to Section 17.3, shall be returned with interest.

19.2 System Impact Study Agreement and Cost Reimbursement:

- (i) The System Impact Study Agreement will clearly specify the maximum charge, based on the Transmission Provider's estimate of the actual cost, and time for completion of the System Impact Study. The charge shall not exceed the actual cost of the study. In performing the System Impact Study, the Transmission Provider shall rely, to the extent reasonably practicable, on existing transmission planning studies. The Eligible Customer will not be assessed a charge for such existing studies; however, the Eligible Customer will be responsible for charges associated with any modifications to existing planning studies that are reasonably necessary to evaluate the impact of the Eligible Customer's request for service on the Transmission System.
- (ii) If in response to multiple Eligible Customers requesting service in relation to the same competitive solicitation, a single System Impact

Study is sufficient for the Transmission Provider to accommodate the requests for service, the costs of that study shall be pro-rated among the Eligible Customers.

- (iii) For System Impact Studies that the Transmission Provider conducts on behalf of an RTO, the RTO shall record the cost of the System Impact Studies pursuant to Section 8.

19.3 System Impact Study Procedures: Upon receipt of an executed System Impact Study Agreement, the Transmission Provider will use due diligence to complete the required System Impact Study within a sixty (60) day period. The System Impact Study shall identify any system constraints and redispatch options, additional Direct Assignment Facilities or Network Upgrades required to provide the requested service. In the event that the Transmission Provider is unable to complete the required System Impact Study within such time period, it shall so notify the Eligible Customer and provide an estimated completion date along with an explanation of the reasons why additional time is required to complete the required studies. A copy of the completed System Impact Study and related work papers shall be made available to the Eligible Customer. The Transmission Provider will use the same due diligence in completing the System Impact Study for an Eligible Customer as it uses when completing studies for an RTO. The Transmission Provider shall notify the Eligible Customer immediately upon completion of the System Impact Study if the Transmission System will be adequate to accommodate all or part of a request for service or that no costs are likely to be incurred for new transmission facilities or upgrades. In order for a request to remain a Completed Application, within fifteen (15) days of completion of the System Impact Study the Eligible Customer must execute a Service Agreement or request the filing of an unexecuted Service Agreement pursuant to Section 15.3, or the Application shall be deemed terminated and withdrawn.

19.4 Facilities Study Procedures: If a System Impact Study indicates that additions or upgrades to the Transmission System are needed to supply the Eligible Customer's service request, the Transmission Provider, within thirty (30) days of the completion of the System Impact Study, shall tender to the Eligible Customer a Facilities Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the required Facilities Study. For a service request to remain a Completed Application, the Eligible Customer shall execute the Facilities Study Agreement and return it to the Transmission Provider within fifteen (15) days.

If the Eligible Customer elects not to execute the Facilities Study Agreement, its application shall be deemed withdrawn and its deposit, pursuant to Section 17.3, shall be returned with interest. Upon receipt of an executed Facilities Study Agreement, the Transmission Provider will use due diligence to complete the required Facilities Study within a sixty (60) day period. If the Transmission Provider is unable to complete the Facilities Study in the allotted time period, the Transmission Provider shall notify the Transmission Customer and provide an estimate of the time needed to reach a final determination along with an explanation of the reasons that additional time is required to complete the study. When completed, the Facilities Study will include a good faith estimate of (i) the cost of Direct Assignment Facilities to be charged to the Transmission Customer, (ii) the Transmission Customer's appropriate share of the cost of any required Network Upgrades as determined pursuant to the provisions of Part II of the Tariff, and (iii) the time required to complete such construction and initiate the requested service. The Transmission Customer shall provide the Transmission Provider with a letter of credit or other reasonable form of security acceptable to the Transmission Provider equivalent to the costs of new facilities or upgrades consistent with commercial practices as established by the Uniform Commercial Code. The Transmission Customer shall have thirty (30) days to execute a Service Agreement or request the filing of an unexecuted Service Agreement and provide the required letter of credit or other form of security or the request will no longer be a Completed Application and shall be deemed terminated and withdrawn.

19.5 Facilities Study Modifications: Any change in design arising from inability to site or construct facilities as proposed will require development of a revised good faith estimate. New good faith estimates also will be required in the event of new statutory or regulatory requirements that are effective before the completion of construction or other circumstances beyond the control of the Transmission Provider that significantly affect the final cost of new facilities or upgrades to be charged to the Transmission Customer pursuant to the provisions of Part II of the Tariff.

19.6 Due Diligence in Completing New Facilities: Each RTO shall use due diligence to add necessary facilities or upgrade the Transmission System within a reasonable time. An RTO will not upgrade the existing or planned Transmission System in order to provide the requested Firm Point-To-Point Transmission Service if doing so would impair system reliability or otherwise impair or degrade existing firm service.

19.7 Partial Interim Service: If the Transmission Provider determines that it will not have adequate transmission capability to satisfy the full amount of a Completed Application for Firm Point-To-Point Transmission Service, the Transmission Provider nonetheless shall be obligated to offer and provide the portion of the requested Firm Point-To-Point Transmission Service that can be accommodated without addition of any facilities and through redispatch. However, the Transmission Provider shall not be obligated to provide the incremental amount of requested Firm Point-To-Point Transmission Service that requires the addition of facilities or upgrades to the Transmission System until such facilities or upgrades have been placed in service.

19.8 Expedited Procedures for New Facilities: In lieu of the procedures set forth above, the Eligible Customer shall have the option to expedite the process by requesting the Transmission Provider to tender at one time, together with the results of required studies, an "Expedited Service Agreement" pursuant to which the Eligible Customer would agree to compensate the Transmission Provider for all costs incurred pursuant to the terms of the Tariff. In order to exercise this option, the Eligible Customer shall request in writing an expedited Service Agreement covering all of the above-specified items within thirty (30) days of receiving the results of the System Impact Study identifying needed facility additions or upgrades or costs incurred in providing the requested service. While the Transmission Provider agrees to provide the Eligible Customer with its best estimate of the new facility costs and other charges that may be incurred, such estimate shall not be binding and the Eligible Customer must agree in writing to compensate the Transmission Provider for all costs incurred pursuant to the provisions of the Tariff. The Eligible Customer shall execute and return such an Expedited Service Agreement within fifteen (15) days of its receipt or the Eligible Customer's request for service will cease to be a Completed Application and will be deemed terminated and withdrawn.

20 Procedures if The Transmission Provider is Unable to Complete New Transmission Facilities for Firm Point-To-Point Transmission Service

20.1 Delays in Construction of New Facilities: If any event occurs that will materially affect the time for completion of new facilities, or the ability to complete them, the Transmission Provider shall promptly notify the Transmission Customer. In such circumstances, the Transmission Provider shall within thirty (30) days of notifying the Transmission Customer of such delays, convene a technical meeting with the Transmission Customer to

evaluate the alternatives available to the Transmission Customer. The Transmission Provider also shall make available to the Transmission Customer studies and work papers related to the delay, including all information that is in the possession of the Transmission Provider that is reasonably needed by the Transmission Customer to evaluate any alternatives.

20.2 Alternatives to the Original Facility Additions: When the review process of Section 20.1 determines that one or more alternatives exist to the originally planned construction project, the Transmission Provider shall present such alternatives for consideration by the Transmission Customer. If, upon review of any alternatives, the Transmission Customer desires to maintain its Completed Application subject to construction of the alternative facilities, it may request the Transmission Provider to submit a revised Service Agreement for Firm Point-To-Point Transmission Service. If the alternative approach solely involves Non-Firm Point-To-Point Transmission Service, the Transmission Provider shall promptly tender a Service Agreement for Non-Firm Point-To-Point Transmission Service providing for the service. In the event the Transmission Provider concludes that no reasonable alternative exists and the Transmission Customer disagrees, the Transmission Customer may seek relief under the dispute resolution procedures pursuant to Section 12 or it may refer the dispute to the Commission for resolution.

20.3 Refund Obligation for Unfinished Facility Additions: If the Transmission Provider and the Transmission Customer mutually agree that no other reasonable alternatives exist and the requested service cannot be provided out of existing capability under the conditions of Part II of the Tariff, the obligation to provide the requested Firm Point-To-Point Transmission Service shall terminate and any deposit made by the Transmission Customer shall be returned with interest pursuant to Commission regulations 35.19a(a)(2)(iii). However, the Transmission Customer shall be responsible for all prudently incurred costs by the Transmission Provider through the time construction was suspended.

21 Provisions Relating to Transmission Construction and Services on the Systems of Other Utilities

21.1 Responsibility for Third-Party System Additions: The Transmission Provider shall not be responsible for making arrangements for any necessary engineering, permitting, and construction of transmission or distribution facilities on the system(s) of any other entity or for obtaining any regulatory

approval for such facilities. The Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in obtaining such arrangements, including without limitation, providing any information or data required by such other electric system pursuant to Good Utility Practice.

- 21.2 Coordination of Third-Party System Additions:** In circumstances where the need for transmission facilities or upgrades is identified pursuant to the provisions of Part II of the Tariff, and if such upgrades further require the addition of transmission facilities on other systems, the Transmission Provider shall have the right to coordinate construction on its own system with the construction required by others. The Transmission Provider, after consultation with the Transmission Customer and representatives of such other systems, may defer construction of its new transmission facilities, if the new transmission facilities on another system cannot be completed in a timely manner. The Transmission Provider shall notify the Transmission Customer in writing of the basis for any decision to defer construction and the specific problems which must be resolved before it will initiate or resume construction of new facilities. Within sixty (60) days of receiving written notification by the Transmission Provider of its intent to defer construction pursuant to this section, the Transmission Customer may challenge the decision in accordance with the dispute resolution procedures pursuant to Section 12 or it may refer the dispute to the Commission for resolution.

22 Changes in Service Specifications

- 22.1 Modifications On a Non-Firm Basis:** The Transmission Customer taking Firm Point-To-Point Transmission Service may request the Transmission Provider to provide transmission service on a non-firm basis over Receipt and Delivery Points other than those specified in the Service Agreement ("Secondary Receipt and Delivery Points"), in amounts not to exceed its firm capacity reservation, without incurring an additional Non-Firm Point-To-Point Transmission Service charge or executing a new Service Agreement, subject to the following conditions.

- (a) Service provided over Secondary Receipt and Delivery Points will be non-firm only, on an as-available basis and will not displace any firm or non-firm service reserved or scheduled by third-parties under the Tariff or by the Transmission Provider on behalf of its Native Load Customers.

- (b) The sum of all Firm and non-firm Point-To-Point Transmission Service provided to the Transmission Customer at any time pursuant to this section shall not exceed the Reserved Capacity in the relevant Service Agreement under which such services are provided.
- (c) The Transmission Customer shall retain its right to schedule Firm Point-To-Point Transmission Service at the Receipt and Delivery Points specified in the relevant Service Agreement in the amount of its original capacity reservation.
- (d) Service over Secondary Receipt and Delivery Points on a non-firm basis shall not require the filing of an Application for Non-Firm Point-To-Point Transmission Service under the Tariff. However, all other requirements of Part II of the Tariff (except as to transmission rates) shall apply to transmission service on a non-firm basis over Secondary Receipt and Delivery Points.

22.2 Modification On a Firm Basis: Any request by a Transmission Customer to modify Receipt and Delivery Points on a firm basis shall be treated as a new request for service in accordance with Section 17 hereof, except that such Transmission Customer shall not be obligated to pay any additional deposit if the capacity reservation does not exceed the amount reserved in the existing Service Agreement. While such new request is pending, the Transmission Customer shall retain its priority for service at the existing firm Receipt and Delivery Points specified in its Service Agreement.

23 Sale or Assignment of Transmission Service

23.1 Procedures for Assignment or Transfer of Service: Subject to Commission approval of any necessary filings, a Transmission Customer may sell, assign, or transfer all or a portion of its rights under its Service Agreement, but only to another Eligible Customer (the Assignee). The Transmission Customer that sells, assigns or transfers its rights under its Service Agreement is hereafter referred to as the Reseller. Compensation to the Reseller shall not exceed the higher of (i) the original rate paid by the Reseller, (ii) the Transmission Provider's maximum rate on file at the time of the assignment, or (iii) the Reseller's opportunity cost. If the Assignee does not request any change in the Point(s) of Receipt or the Point(s) of Delivery, or a change in any other term or condition set forth in the original Service Agreement, the Assignee will receive the same services as did the Reseller and the priority of service for the

Assignee will be the same as that of the Reseller. A Reseller should notify the Transmission Provider as soon as possible after any assignment or transfer of service occurs but in any event, notification must be provided prior to any provision of service to the Assignee. The Assignee will be subject to all terms and conditions of this Tariff. If the Assignee requests a change in service, the reservation priority of service will be determined by the Transmission Provider pursuant to Section 13.2.

23.2 Limitations on Assignment or Transfer of Service: If the Assignee requests a change in the Point(s) of Receipt or Point(s) of Delivery, or a change in any other specifications set forth in the original Service Agreement, the Transmission Provider will consent to such change subject to the provisions of the Tariff, provided that the change will not impair the operation and reliability of the Transmission Provider's generation, transmission, or distribution systems. The Assignee shall compensate the Transmission Provider for performing any System Impact Study needed to evaluate the capability of the Transmission System to accommodate the proposed change and any additional costs resulting from such change. The Reseller shall remain liable for the performance of all obligations under the Service Agreement, except as specifically agreed to by the Parties through an amendment to the Service Agreement.

23.3 Information on Assignment or Transfer of Service: In accordance with Section 4, Resellers may use the Transmission Provider's OASIS to post transmission capacity available for resale.

24 Metering and Power Factor Correction at Receipt and Delivery Points(s)

24.1 Transmission Customer Obligations: Unless otherwise agreed, the Transmission Customer shall be responsible for installing and maintaining compatible metering and communications equipment to accurately account for the capacity and energy being transmitted under Part II of the Tariff and to communicate the information to the Transmission Provider. Such equipment shall remain the property of the Transmission Customer.

24.2 Transmission Provider Access to Metering Data: The Transmission Provider shall have access to metering data, which may reasonably be required to facilitate measurements and billing under the Service Agreement.

24.3 Power Factor: Unless otherwise agreed, the Transmission Customer is required to maintain a power factor within the same range as the Transmission Provider pursuant to Good Utility Practices. The power factor requirements are specified in the Service Agreement where applicable.

25 Compensation for Transmission Service

Rates for Firm and Non-Firm Point-To-Point Transmission Service are provided in the Schedules appended to the Tariff: Firm Point-To-Point Transmission Service (Schedule 7); and Non-Firm Point-To-Point Transmission Service (Schedule 8). Each RTO shall use Part II of the Tariff to make its Third-Party Sales. Each RTO shall account for such use at the applicable Tariff rates, pursuant to Section 8.

26 Stranded Cost Recovery

Any RTO may seek to recover stranded costs from the Transmission Customer pursuant to this Tariff in accordance with the terms, conditions and procedures set forth in FERC Order No. 888. However, the RTO must separately file any specific proposed stranded cost charge under Section 205 of the Federal Power Act.

27 Compensation for New Facilities and Redispatch Costs:

27.1 New Facilities: Whenever a System Impact Study performed by the Transmission Provider in connection with the provision of Firm Point-To-Point Transmission Service identifies the need for new facilities, the Transmission Customer shall be responsible for such costs to the extent consistent with Commission policy.

27.2 Redispatch: Whenever constraints may be relieved more economically by purchasing the redispatch of generating resources than by building new facilities or upgrading existing facilities to eliminate such constraints, the Transmission Customer shall be responsible for its share of the redispatch costs determined as follows:

- (a) Transmission Customers receiving Firm Point-To-Point Transmission Service shall pay a share of the total redispatch costs each month not billed pursuant to Section 27.2(b) in the same proportion that (i) its charges in that month for Reserved Capacity, bear to (ii) the total of such charges for Firm and Non-Firm Point-To-Point Transmission Service, plus the total Monthly Demand Charges paid by Network

Customers, plus the total demand charge attributable to Native Load Customers for designated resources and loads specified in accordance with Section 28.2 below.

- (b) A Transmission Customer receiving Non-Firm Point-To-Point Transmission Service that agrees at the time of scheduling service to pay redispatch costs in order to avoid interruption shall pay the higher of the basic rate pursuant to Section 25 plus an amount determined as in Section 27.2(a), or the incremental cost of redispatch attributable to the transaction during the month.

III. NETWORK INTEGRATION TRANSMISSION SERVICE**Preamble**

The Transmission Provider will provide Network Integration Transmission Service pursuant to the applicable terms and conditions contained in the Tariff and Service Agreement. Network Integration Transmission Service allows the Network Customer to integrate, economically dispatch and regulate its current and planned Network Resources to serve its Network Load in a manner comparable to that in which each RTO utilizes the Transmission System to serve its Native Load Customers. Network Integration Transmission Service also may be used by the Network Customer to deliver economy energy purchases to its Network Load from non-designated resources on an as-available basis without additional charge. Transmission service for sales to non-designated loads will be provided pursuant to the applicable terms and conditions of Part II of the Tariff.

28 Nature of Network Integration Transmission Service

28.1 Scope of Service: Network Integration Transmission Service is a transmission service that allows Network Customers to efficiently and economically utilize their Network Resources (as well as other non-designated generation resources) to serve their Network Load located in the PJM Control Area and any additional load that may be designated pursuant to Section 31.3 of the Tariff. The Network Customer taking Network Integration Transmission Service must obtain or provide Ancillary Services pursuant to Section 3.

28.2 Transmission Provider Responsibilities: The Transmission Provider will plan, construct, operate and maintain the Transmission System in accordance with Good Utility Practice in order to provide the Network Customer with Network Integration Transmission Service over the Transmission Provider's Transmission System. Each RTO, on behalf of its Native Load Customers, shall be required to designate resources and loads in the same manner as any Network Customer under Part III of this Tariff. This information must be consistent with the information used by the Transmission Provider to calculate available transmission capability. The Transmission Provider shall include the Network Customer's Network Load in the Transmission System planning and shall, consistent with Good Utility Practice, endeavor to construct and place into service sufficient transmission capacity to deliver the Network Customer's Network Resources to serve its Network Load on a basis comparable to the delivery of each RTO's own generating and purchased resources to its Native Load Customers.

- 28.3 Network Integration Transmission Service:** The Transmission Provider will provide firm transmission service over the Transmission System to the Network Customer for the delivery of capacity and energy from its designated Network Resources to service its Network Loads on a basis that is comparable to each RTO's use of the Transmission System to reliably serve its Native Load Customers.
- 28.4 Secondary Service:** The Network Customer may use the Transmission Provider's Transmission System to deliver energy to its Network Loads from resources that have not been designated as Network Resources. Such energy shall be transmitted, on an as-available basis, at no additional charge. Deliveries from resources other than Network Resources will have a higher priority than any Non-Firm Point-To-Point Transmission Service under Part II of the Tariff.
- 28.5 Real Power Losses:** Real Power Losses are associated with all transmission service. The Transmission Provider is not obligated to provide Real Power Losses. The Network Customer is responsible for replacing losses associated with all transmission service in accordance with Attachment K.
- 28.6 Restrictions on Use of Service:** The Network Customer shall not use Network Integration Transmission Service for (i) sales of capacity and energy to non-designated loads, or (ii) direct or indirect provision of transmission service by the Network Customer to third parties. All Network Customers taking Network Integration Transmission Service shall use Point-To-Point Transmission Service under Part II of the Tariff for any Third-Party Sale which requires use of the Transmission Provider's Transmission System.
- 29 Initiating Service**
- 29.1 Condition Precedent for Receiving Service:** Subject to the terms and conditions of Part III of the Tariff, the Transmission Provider will provide Network Integration Transmission Service to any Eligible Customer, provided that (i) the Eligible Customer completes an Application for service as provided under Part III of the Tariff, (ii) the Eligible Customer and the Transmission Provider complete the technical arrangements set forth in Sections 29.3 and 29.4, (iii) the Eligible Customer executes a Service Agreement pursuant to Attachment F for service under Part III of the Tariff or requests in writing that the Transmission Provider file a proposed unexecuted Service Agreement with the Commission, and (iv) the Eligible Customer executes a Network Operating

Agreement with the Transmission Provider pursuant to Attachment G and the MAAC agreement.

29.2 Application Procedures: An Eligible Customer requesting service under Part III of the Tariff must submit an Application, with a deposit approximating the charge for one month of service, to the Transmission Provider as far as possible in advance of the month in which service is to commence. Unless subject to the procedures in Section 2, Completed Applications for Network Integration Transmission Service will be assigned a priority according to the date and time the Application is received, with the earliest Application receiving the highest priority. Applications should be submitted by entering the information listed below on the Transmission Provider's OASIS. Prior to implementation of the Transmission Provider's OASIS, a Completed Application may be submitted by (i) transmitting the required information to the Transmission Provider by telefax, or (ii) providing the information by telephone over the Transmission Provider's time recorded telephone line. Each of these methods will provide a time-stamped record for establishing the service priority of the Application. A Completed Application shall provide all of the information included in 18 CFR § 2.20 including but not limited to the following:

- (i) The identity, address, telephone number and facsimile number of the party requesting service;
- (ii) -A statement that the party requesting service is, or will be upon commencement of service, an Eligible Customer under the Tariff;
- (iii) A description of the Network Load at each delivery point. This description should separately identify and provide the Eligible Customer's best estimate of the total loads to be served at each transmission voltage level, and the loads to be served from each Transmission Provider substation at the same transmission voltage level. The description should include a ten (10) year forecast of summer and winter load and resource requirements beginning with the first year after the service is scheduled to commence;
- (iv) The amount and location of any interruptible loads included in the Network Load. This shall include the summer and winter capacity requirements for each interruptible load (had such load not been interruptible), that portion of the load subject to interruption, the

conditions under which an interruption can be implemented and any limitations on the amount and frequency of interruptions. An Eligible Customer should identify the amount of interruptible customer load (if any) included in the 10 year load forecast provided in response to (iii) above;

- (v) A description of Network Resources (current and 10-year projection), which shall include, for each Network Resource:
- Unit size and amount of capacity from that unit to be designated as Network Resource
 - VAR capability (both leading and lagging) of all generators
 - Operating restrictions
 - Any periods of restricted operations throughout the year
 - Maintenance schedules
 - Minimum loading level of unit
 - Normal operating level of unit
 - Any must-run unit designations required for system reliability or contract reasons
 - Approximate variable generating cost (\$/MWH) for redispatch computations
 - Arrangements governing sale and delivery of power to third parties from generating facilities located in the Transmission Provider Control Area, where only a portion of unit output is designated as a Network Resource
 - Description of purchased power designated as a Network Resource including source of supply, Control Area location, transmission arrangements and delivery point(s) to the Transmission Provider's Transmission System;
- (vi) Description of Eligible Customer's transmission system:
- Load flow and stability data, such as real and reactive parts of the load, lines, transformers, reactive devices and load type, including normal and emergency ratings of all transmission equipment in a load flow format compatible with that used by the Transmission Provider
 - Operating restrictions needed for reliability
 - Operating guides employed by system operators
 - Contractual restrictions or committed uses of the Eligible Customer's transmission system, other than the Eligible Customer's Network Loads and Resources

- Location of Network Resources described in subsection (v) above
 - 10 year projection of system expansions or upgrades
 - Transmission System maps that include any proposed expansions or upgrades
 - Thermal ratings of Eligible Customer's Control Area ties with other Control Areas; and
- (vii) Service Commencement Date and the term of the requested Network Integration Transmission Service. The minimum term for Network Integration Transmission Service is one year.

Unless the Parties agree to a different time frame, the Transmission Provider must acknowledge the request within ten (10) days of receipt. The acknowledgement must include a date by which a response, including a Service Agreement, will be sent to the Eligible Customer. If an Application fails to meet the requirements of this section, the Transmission Provider shall notify the Eligible Customer requesting service within fifteen (15) days of receipt and specify the reasons for such failure. Wherever possible, the Transmission Provider will attempt to remedy deficiencies in the Application through informal communications with the Eligible Customer. If such efforts are unsuccessful, the Transmission Provider shall return the Application without prejudice to the Eligible Customer filing a new or revised Application that fully complies with the requirements of this section. The Eligible Customer will be assigned a new priority consistent with the date of the new or revised Application. The Transmission Provider shall treat this information consistent with the standards of conduct contained in Part 37 of the Commission's regulations.

- 29.3 Technical Arrangements to be Completed Prior to Commencement of Service:** Network Integration Transmission Service shall not commence until the Transmission Provider and the Network Customer, or a third party, have completed installation of all equipment specified under the Network Operating Agreement consistent with Good Utility Practice and any additional requirements reasonably and consistently imposed to ensure the reliable operation of the Transmission System. The Transmission Provider shall exercise reasonable efforts, in coordination with the Network Customer, to complete such arrangements as soon as practicable taking into consideration the Service Commencement Date.

- 29.4 Network Customer Facilities:** The provision of Network Integration Transmission Service shall be conditioned upon the Network Customer's constructing, maintaining and operating the facilities on its side of each delivery point or interconnection necessary to reliably deliver capacity and energy from the Transmission Provider's Transmission System to the Network Customer. The Network Customer shall be solely responsible for constructing or installing all facilities on the Network Customer's side of each such delivery point or interconnection.
- 29.5 Filing of Service Agreement:** The Transmission Provider will file Service Agreements with the Commission in compliance with applicable Commission regulations.

30 Network Resources

- 30.1 Designation of Network Resources:** Network Resources shall include all generation owned or purchased by the Network Customer designated to serve Network Load under the Tariff. Network Resources may not include resources, or any portion thereof, that are committed for sale to non-designated third party load or otherwise cannot be called upon to meet the Network Customer's Network Load on a non-interruptible basis. Any owned or purchased resources that were serving the Network Customer's loads under firm agreements entered into on or before the Service Commencement Date shall initially be designated as Network Resources until the Network Customer terminates the designation of such resources.
- 30.2 Designation of New Network Resources:** The Network Customer may designate a new Network Resource by providing the Transmission Provider with as much advance notice as practicable. A designation of a new Network Resource must be made by a request for modification of service pursuant to an Application under Section 29.
- 30.3 Termination of Network Resources:** The Network Customer may terminate the designation of all or part of a generating resource as a Network Resource at any time but should provide notification to the Transmission Provider as soon as reasonably practicable.
- 30.4 Operation of Network Resources:** The Network Customer shall not operate its designated Network Resources located in the Network Customer's or Transmission Provider's Control Area such that the output of those facilities

exceeds its designated Network Load plus losses, Third Party Sales and net sales of energy through the interchange energy market established under the PJM Interconnection Agreement.

- 30.5 Network Customer Redispatch Obligation:** As a condition to receiving Network Integration Transmission Service, the Network Customer agrees to redispatch its Network Resources as requested by the Transmission Provider pursuant to Section 33.2. To the extent practical, the redispatch of resources pursuant to this section shall be on a least cost, non-discriminatory basis among all Network Customers and the RTOs.
- 30.6 Transmission Arrangements for Network Resources Not Physically Interconnected With The Transmission Provider:** The Network Customer shall be responsible for any arrangements necessary to deliver capacity and energy from a Network Resource not physically interconnected with the Transmission Provider's Transmission System. The Transmission Provider will undertake reasonable efforts to assist the Network Customer in obtaining such arrangements, including without limitation, providing any information or data required by such other entity pursuant to Good Utility Practice.
- 30.7 Limitation on Designation of Network Resources:** The Network Customer must demonstrate that it owns or has committed to purchase generation pursuant to an executed contract in order to designate a generating resource as a Network Resource. Alternatively, the Network Customer may establish that execution of a contract is contingent upon the availability of transmission service under Part III of the Tariff.
- 30.8 Use of Interface Capacity by the Network Customer:** There is no limitation upon a Network Customer's use of the Transmission Provider's Transmission System at any particular interface to integrate the Network Customer's Network Resources (or substitute economy purchases) with its Network Loads. However, a Network Customer's use of the Transmission Provider's total interface capacity with other transmission systems may not exceed the Network Customer's Load Ratio Share.
- 30.9 Network Customer Owned Transmission Facilities:** The Network Customer that owns existing transmission facilities that are integrated with the Transmission Provider's Transmission System may be eligible to receive consideration either through a billing credit or some other mechanism. In order to receive such consideration the Network Customer must demonstrate

that its transmission facilities are integrated into the planning and operations of the Transmission Provider to serve all of its power and transmission customers. For facilities constructed by the Network Customer subsequent to the Service Commencement Date under Part III of the Tariff, the Network Customer shall receive credit where such facilities are jointly planned and installed in coordination with the Transmission Provider. Calculation of the credit shall be addressed in either the Network Customer's Service Agreement or any other agreement between the Parties.

31 Designation of Network Load

- 31.1 Network Load:** The Network Customer must designate the individual Network Loads on whose behalf the Transmission Provider will provide Network Integration Transmission Service. The Network Loads shall be specified in the Service Agreement.
- 31.2 New Network Loads Connected With the Transmission Provider:** The Network Customer shall provide the Transmission Provider with as much advance notice as reasonably practicable of the designation of new Network Load that will be added to the Transmission System. A designation of new Network Load must be made through a modification of service pursuant to a new Application. The Transmission Provider will use due diligence to install any transmission facilities required to interconnect a new Network Load designated by the Network Customer. The costs of new facilities required to interconnect a new Network Load shall be determined in accordance with the procedures provided in Section 32.4 and shall be charged to the Network Customer in accordance with Commission policies.
- 31.3 Network Load Not Physically Interconnected with the Transmission Provider:** This section applies to both initial designation pursuant to Section 31.1 and the subsequent addition of new Network Load not physically interconnected with the Transmission Provider. To the extent that the Network Customer desires to obtain transmission service for a load outside the Transmission Provider's Transmission System, the Network Customer shall have the option of (1) electing to include the entire load as Network Load for all purposes under Part III of the Tariff by incorporating the said load into the PJM Control Area and designating Network Resources in connection with such additional Network Load, or (2) excluding that entire load from its Network Load and purchasing Point-To-Point Transmission Service under Part II of the Tariff. To the extent that the Network Customer gives notice of its intent to

add a new Network Load as part of its Network Load pursuant to this section the request must be made through a modification of service pursuant to a new Application.

- 31.4 New Interconnection Points:** To the extent the Network Customer desires to add a new Delivery Point or interconnection point between the Transmission Provider's Transmission System and a Network Load, the Network Customer shall provide the Transmission Provider with as much advance notice as reasonably practicable.
- 31.5 Changes in Service Requests:** Under no circumstances shall the Network Customer's decision to cancel or delay a requested change in Network Integration Transmission Service (e.g. the addition of a new Network Resource or designation of a new Network Load) in any way relieve the Network Customer of its obligation to pay the costs of transmission facilities constructed by the Transmission Provider and charged to the Network Customer as reflected in the Service Agreement. However, the Transmission Provider must treat any requested change in Network Integration Transmission Service in a non-discriminatory manner.
- 31.6 Annual Load and Resource Information Updates:** The Network Customer shall provide the Transmission Provider with annual updates of Network Load and Network Resource forecasts consistent with those included in its Application for Network Integration Transmission Service under Part III of the Tariff. The Network Customer also shall provide the Transmission Provider with timely written notice of material changes in any other information provided in its Application relating to the Network Customer's Network Load, Network Resources, its transmission system or other aspects of its facilities or operations affecting the Transmission Provider's ability to provide reliable service.
- 32 Additional Study Procedures For Network Integration Transmission Service Requests**
- 32.1 Notice of Need for System Impact Study:** After receiving a request for service, the Transmission Provider shall determine on a non-discriminatory basis whether a System Impact Study is needed. A description of the Transmission Provider's methodology for completing a System Impact Study is provided in Attachment D. If the Transmission Provider determines that a System Impact Study is necessary to accommodate the requested service, it

shall so inform the Eligible Customer, as soon as practicable. In such cases, the Transmission Provider shall within thirty (30) days of receipt of a Completed Application, tender a System Impact Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the required System Impact Study. For a service request to remain a Completed Application, the Eligible Customer shall execute the System Impact Study Agreement and return it to the Transmission Provider within fifteen (15) days. If the Eligible Customer elects not to execute the System Impact Study Agreement, its Application shall be deemed withdrawn and its deposit shall be returned with interest.

32.2 System Impact Study Agreement and Cost Reimbursement:

- (i) The System Impact Study Agreement will clearly specify the maximum charge, based on the Transmission Provider's estimate of the actual cost, and time for completion of the System Impact Study. The charge shall not exceed the actual cost of the study. In performing the System Impact Study, the Transmission Provider shall rely, to the extent reasonably practicable, on existing transmission planning studies. The Eligible Customer will not be assessed a charge for such existing studies; however, the Eligible Customer will be responsible for charges associated with any modifications to existing planning studies that are reasonably necessary to evaluate the impact of the Eligible Customer's request for service on the Transmission System.
- (ii) If in response to multiple Eligible Customers requesting service in relation to the same competitive solicitation, a single System Impact Study is sufficient for the Transmission Provider to accommodate the service requests, the costs of that study shall be pro-rated among the Eligible Customers.
- (iii) For System Impact Studies that the Transmission Provider conducts on behalf of an RTO, the RTO shall record the cost of the System Impact Studies pursuant to Section 8.

32.3 System Impact Study Procedures: Upon receipt of an executed System Impact Study Agreement, the Transmission Provider will use due diligence to complete the required System Impact Study within a sixty (60) day period. The System Impact Study shall identify any system constraints and redispatch options, additional Direct Assignment Facilities or Network Upgrades required

to provide the requested service. In the event that the Transmission Provider is unable to complete the required System Impact Study within such time period, it shall so notify the Eligible Customer and provide an estimated completion date along with an explanation of the reasons why additional time is required to complete the required studies. A copy of the completed System Impact Study and related work papers shall be made available to the Eligible Customer. The Transmission Provider will use the same due diligence in completing the System Impact Study for an Eligible Customer as it uses when completing studies for an RTO. The Transmission Provider shall notify the Eligible Customer immediately upon completion of the System Impact Study if the Transmission System will be adequate to accommodate all or part of a request for service or that no costs are likely to be incurred for new transmission facilities or upgrades. In order for a request to remain a Completed Application, within fifteen (15) days of completion of the System Impact Study the Eligible Customer must execute a Service Agreement or request the filing of an unexecuted Service Agreement, or the Application shall be deemed terminated and withdrawn.

- 32.4 Facilities Study Procedures:** If a System Impact Study indicates that additions or upgrades to the Transmission System are needed to supply the Eligible Customer's service request, the Transmission Provider, within thirty (30) days of the completion of the System Impact Study, shall tender to the Eligible Customer a Facilities Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the required Facilities Study. For a service request to remain a Completed Application, the Eligible Customer shall execute the Facilities Study Agreement and return it to the Transmission Provider within fifteen (15) days. If the Eligible Customer elects not to execute the Facilities Study Agreement, its Application shall be deemed withdrawn and its deposit shall be returned with interest. Upon receipt of an executed Facilities Study Agreement, the Transmission Provider will use due diligence to complete the required Facilities Study within a sixty (60) day period. If the Transmission Provider is unable to complete the Facilities Study in the allotted time period, the Transmission Provider shall notify the Eligible Customer and provide an estimate of the time needed to reach a final determination along with an explanation of the reasons that additional time is required to complete the study. When completed, the Facilities Study will include a good faith estimate of (i) the cost of Direct Assignment Facilities to be charged to the Eligible Customer, (ii) the Eligible Customer's appropriate share of the cost of any required Network Upgrades, and (iii) the time required to complete such

construction and initiate the requested service. The Eligible Customer shall provide the Transmission Provider with a letter of credit or other reasonable form of security acceptable to the Transmission Provider equivalent to the costs of new facilities or upgrades consistent with commercial practices as established by the Uniform Commercial Code. The Eligible Customer shall have thirty (30) days to execute a Service Agreement or request the filing of an unexecuted Service Agreement and provide the required letter of credit or other form of security or the request no longer will be a Completed Application and shall be deemed terminated and withdrawn.

33 Load Shedding and Curtailments

- 33.1 Procedures:** Prior to the Service Commencement Date, the Transmission Provider and the Network Customer shall establish Load Shedding and Curtailment procedures pursuant to the Network Operating Agreement with the objective of responding to contingencies on the Transmission System. The Parties will implement such programs during any period when the Transmission Provider determines that a system contingency exists and such procedures are necessary to alleviate such contingency. The Transmission Provider will notify all affected Network Customers in a timely manner of any scheduled Curtailment.
- 33.2 Transmission Constraints:** During any period when the Transmission Provider determines that a transmission constraint exists on the Transmission System, and such constraint may impair the reliability of the Transmission Provider's system, the Transmission Provider will take whatever actions, consistent with Good Utility Practice, that are reasonably necessary to maintain the reliability of the Transmission Provider's system. To the extent the Transmission Provider determines that the reliability of the Transmission System can be maintained by redispatching resources, the Transmission Provider will initiate procedures pursuant to the Network Operating Agreement to redispatch all Network Resources and the Transmission Provider's own resources on a least-cost basis without regard to the ownership of such resources. Any redispatch under this section may not unduly discriminate between the Transmission Provider's use of the Transmission System on behalf of its Native Load Customers and any Network Customer's use of the Transmission System to serve its designated Network Load.



- 33.3 Cost Responsibility for Relieving Transmission Constraints:** Whenever the Transmission Provider implements least-cost redispatch procedures in response to a transmission constraint, the RTOs and the Network Customers will each bear a proportionate share of the total redispatch cost based on their respective Load Ratio Shares. The total redispatch costs so shared shall be net of any contribution to redispatch costs paid by Point-To-Point Transmission Service Customers.
- 33.4 Curtailments of Scheduled Deliveries:** If a transmission constraint on the Transmission Provider's Transmission System cannot be relieved through the implementation of least-cost redispatch procedures and the Transmission Provider determines that it is necessary to Curtail scheduled deliveries, the Parties shall Curtail such schedules in accordance with the Network Operating Agreement.
- 33.5 Allocation of Curtailments:** The Transmission Provider shall, on a non-discriminatory basis, Curtail the transaction(s) that effectively relieve the constraint. However, to the extent practicable and consistent with Good Utility Practice, any Curtailment will be shared by each RTO and Network Customer in proportion to their respective Load Ratio Shares. The Transmission Provider shall not direct the Network Customer to Curtail schedules to an extent greater than the Transmission Provider would Curtail the schedules of an RTO under similar circumstances.
- 33.6 Load Shedding:** To the extent that a system contingency exists on the Transmission Provider's Transmission System and the Transmission Provider determines that it is necessary for the Transmission Provider and the Network Customer to shed load, the Parties shall shed load in accordance with previously established procedures under the Network Operating Agreement.
- 33.7 System Reliability:** Notwithstanding any other provisions of this Tariff, the Transmission Provider reserves the right, consistent with Good Utility Practice and on a not unduly discriminatory basis, to Curtail Network Integration Transmission Service without liability on the Transmission Provider's part for the purpose of making necessary adjustments to, changes in, or repairs on its lines, substations and facilities, and in cases where the continuance of Network Integration Transmission Service would endanger persons or property. In the event of any adverse condition(s) or disturbance(s) on the Transmission Provider's Transmission System or on any other system(s) directly or indirectly interconnected with the Transmission Provider's Transmission

System, the Transmission Provider, consistent with Good Utility Practice, also may Curtail Network Integration Transmission Service in order to (i) limit the extent or damage of the adverse condition(s) or disturbance(s), (ii) prevent damage to generating or transmission facilities, or (iii) expedite restoration of service. The Transmission Provider will give the Network Customer as much advance notice as is practicable in the event of such Curtailment. Any Curtailment of Network Integration Transmission Service will be not unduly discriminatory relative to an RTO's use of the Transmission System on behalf of its Native Load Customers. The Transmission Provider shall specify the rate treatment and all related terms and conditions applicable in the event that the Network Customer fails to respond to established Load Shedding and Curtailment procedures.

34 Rates and Charges

The Network Customer shall pay the Transmission Provider for any Direct Assignment Facilities, Ancillary Services, and applicable study costs, consistent with Commission policy, along with the following:

34.1 Monthly Demand Charge: (a) The Network Customer shall pay a monthly Demand Charge, which shall be determined by multiplying its Load Ratio Share times one twelfth (1/12) of the Annual Transmission Revenue Requirement, as specified in Attachment H, for the Zone or Zones in which the Network Load of the Network Customer is located.

(b) Nothing herein shall entitle any RTO or Network Customer to establish a zone that is smaller than or a portion of a Zone set forth in Attachment J.

34.2 Determination of Network Customer's Monthly Network Load:

(a) Zonal Monthly Network Load. The Network Customer's zonal monthly Network Load is its hourly load (including its designated Network Load not physically interconnected with the Transmission Provider under Section 31.3) coincident with the applicable Zonal Monthly Transmission System Peak.

(b) Total Monthly Network Load. The Network Customer's monthly Network Load is its hourly load (including its designated Network Load not physically interconnected with the Transmission Provider under Section 31.3) coincident with the Transmission Provider's Monthly Transmission System Peak.

34.3 Determination of Monthly Transmission System Load:

(a) Zonal Monthly Transmission System Load. The load in a Zone is the Zonal Monthly Transmission System Peak minus the coincident peak usage of an allocable share of all Firm Point-To-Point Transmission Service customers pursuant to Part II of this Tariff plus an allocable share of the Reserved Capacity of all Firm Point-To-Point Transmission Service customers.

(b) Transmission Provider's Monthly Transmission System Load. The Transmission Provider's monthly Transmission System load is the Transmission Provider's Monthly Transmission System Peak minus the coincident peak usage of all Firm Point-To-Point Transmission Service customers pursuant to Part II of this Tariff plus the Reserved Capacity of all Firm Point-To-Point Transmission Service customers.

34.4 Redispatch Charge: The Network Customer shall pay a Load Ratio Share of any redispatch costs pursuant to Section 33. To the extent that generating resources of the Network Customer may be redispatched in accordance with Section 33, any compensation to the Network Customer for such operation shall be determined and billed as prescribed in the PJM Agreement if the Network Customer is a signatory thereto, or otherwise in the Network Operating Agreement.

34.5 Stranded Cost Recovery: Any RTO may seek to recover stranded costs from the Network Customer pursuant to this Tariff in accordance with the terms, conditions and procedures set forth in FERC Order No. 888. However, the RTO must separately file any proposal to recover stranded costs under Section 205 of the Federal Power Act.

35 Operating Arrangements

35.1 Operation under The Network Operating Agreement: The Network Customer shall plan, construct, operate and maintain its facilities in accordance with Good Utility Practice and in conformance with the Network Operating Agreement.

35.2 Network Operating Agreement: The terms and conditions under which the Network Customer shall operate its facilities and the technical and operational matters associated with the implementation of Part III of the Tariff shall be specified in the Network Operating Agreement. The Network Operating

Agreement shall provide for the Parties to (i) operate and maintain equipment necessary for integrating the Network Customer within the Transmission Provider's Transmission System (including, but not limited to, remote terminal units, metering, communications equipment and relaying equipment), (ii) transfer data between the Transmission Provider and the Network Customer (including, but not limited to, heat rates and operational characteristics of Network Resources, generation schedules for units outside the Transmission Provider's Transmission System, interchange schedules, unit outputs for redispatch required under Section 33, voltage schedules, loss factors and other real time data), (iii) use software programs required for data links and constraint dispatching, (iv) exchange data on forecasted loads and resources necessary for long-term planning, and (v) address any other technical and operational considerations required for implementation of Part III of the Tariff, including scheduling protocols. The Network Operating Agreement will recognize that the Network Customer shall either (i) operate as a Control Area under applicable guidelines of the North American Electric Reliability Council (NERC) and MAAC, (ii) satisfy its Control Area requirements, including all necessary Ancillary Services, by contracting with the Transmission Provider, or (iii) satisfy its Control Area requirements, including all necessary Ancillary Services, by contracting with another entity, consistent with Good Utility Practice, which satisfies NERC and the MAAC requirements. The Transmission Provider shall not unreasonably refuse to accept contractual arrangements with another entity for Ancillary Services. The Network Operating Agreement is included in Attachment G.

- 35.3 Network Operating Committee:** A Network Operating Committee (Committee) shall be established to coordinate operating criteria for the Parties' respective responsibilities under the Network Operating Agreement. Each Network Customer shall be entitled to have at least one representative on the Committee. The Committee shall meet from time to time as need requires, but no less than once each calendar year. For Network Customers serving load in the PJM Control Area, the Network Operating Committee shall be the Management Committee, or a sub-committee thereof, established under the PJM Interconnection Agreement.

SCHEDULE 1

Scheduling, System Control and Dispatch Service

This service is required to schedule the movement of power through, out of, within, or into a Control Area. This service can be provided only by the operator of the Control Area in which the transmission facilities used for transmission service are located. Scheduling, System Control and Dispatch Service is to be provided directly by the Transmission Provider. The Transmission Customer must purchase this service from the Transmission Provider. The charges for Scheduling, System Control and Dispatch Service are to be based on the cost of operating the Office of the Interconnection.

The primary function of the Office of the Interconnection is to perform Scheduling, System Control and Dispatch Services for the region. The monthly charges for operation of the Office of the Interconnection shall be allocated and billed to the Transmission Customers in the same proportions that each Transmission Customer's use of the Transmission System, on a megawatthour basis, bears to the total of such use in the same month. Use of the local control centers of the RTOs is included in their transmission revenue requirements, and thus in the base rates for regional transmission service.

SCHEDULE 2**Reactive Supply and Voltage Control from
Generation Sources Service**

In order to maintain transmission voltages on the Transmission Provider's transmission facilities within acceptable limits, generation facilities (in the Control Area where the Transmission Provider's transmission facilities are located) are operated to produce (or absorb) reactive power. Thus, Reactive Supply and Voltage Control from Generation Sources Service must be provided for each transaction on the Transmission Provider's transmission facilities. The amount of Reactive Supply and Voltage Control from Generation Sources Service that must be supplied with respect to the Transmission Customer's transaction will be determined based on the reactive power support necessary to maintain transmission voltages within limits that are generally accepted in the region and consistently adhered to by the Transmission Provider.

Reactive Supply and Voltage Control from Generation Sources Service is to be provided directly by the Transmission Provider. The Transmission Customer must purchase this service from the Transmission Provider.

The charges for such service will be based on the rates set forth below for Network Customers in each Zone and a pool-wide rate for Point-To-Point Transmission Service:

Zone	Capacity Megawatts	Zone Rate (\$/kW/Mo.)	Weighted Contribution
AE	2,326	0.290	0.0122
BG&E	6,716	0.147	0.0179
Delmarva	2,923	0.226	0.0120
JCPL	4,836	0.279	0.0245
MetEd	2,300	0.232	0.0097
Penelec	2,878	0.286	0.0149
PECO	9,001	0.239	0.0390
Pepco	6,746	0.210	0.0257
PPL	6,867	0.120	0.0150
PSE&G	<u>10,502</u>	0.080	<u>0.0152</u>
	55,095	Pool-Wide Rate:	0.1861

SCHEDULE 3**Regulation and Frequency Response Service**

Regulation and Frequency Response Service is necessary to provide for the continuous balancing of resources (generation and interchange) with load and for maintaining scheduled Interconnection frequency at sixty cycles per second (60 Hz). Regulation and Frequency Response Service is accomplished by committing on-line generation whose output is raised or lowered (predominantly through the use of automatic generating control equipment) as necessary to follow the moment-by-moment changes in load. The obligation to maintain this balance between resources and load lies with the Transmission Provider. The Transmission Provider must offer this service when the transmission service is used to serve load within its Control Area. The Transmission Customer must either purchase this service from the Transmission Provider or make alternative comparable arrangements to satisfy its Regulation and Frequency Response Service obligation. The amount of and charges for Regulation and Frequency Response Service are set forth below.

For regulation not satisfied by individual RTOs on behalf of their Native Load Customers, Network Customers or other Transmission Customers serving load in the PJM Control Area, the Transmission Provider will order the lowest cost alternative for regulation in service as needed to meet the PJM Control Area requirements (as set forth in the PJM Operating Principles and Standards), as specified below:

- a. Regulation shall be supplied from generators located within the metered electrical boundaries of the PJM Control Area. Generators offering regulation, shall comply with applicable standards and requirements for regulation capability and dispatch specified in the procedures of the Office of the Interconnection.
- b. The Office of the Interconnection shall obtain and maintain an amount of regulation equal to the PJM Control Area Regulation objective as specified in its procedures.
- c. The regulation range of a unit shall be at least twice the amount of regulation assigned.
- d. A unit capable of automatic energy dispatch that is also providing regulation shall have its energy dispatch range reduced from the regulation range by twice the amount of the regulation provided. The amount of regulation provided by a unit shall serve to redefine the normal minimum generation and normal maximum generation energy limits of that unit, in that the amount of regulation shall be added to the unit's normal

- minimum generation energy limit, and subtracted from its normal maximum generation energy limit.
- e. Qualified regulation must satisfy the verification tests described in the procedures of the Office of the Interconnection.
 - f. An RTO, Network Customer or other Transmission Customer may satisfy its regulation obligation from its own resources capable of performing regulation service, by contractual arrangements with others able to provide regulation service on a comparable basis, or by purchases from the regulation market in the PJM Control Area.
 - g. The Office of the Interconnection shall obtain regulation service from the least-cost alternatives available from either pool-scheduled or self-scheduled resources as needed to meet PJM Control Area requirements not otherwise satisfied by an RTO, Network Customer or other Transmission Customer.
 - h. The Office of the Interconnection shall dispatch resources for regulation by sending regulation signals and instructions to resources from which regulation service has been offered, in accordance with the procedures of the Office of the Interconnection. Those resources shall comply with regulation dispatch signals and instructions transmitted by the Office of the Interconnection and, in the event of conflict, regulation dispatch signals and instructions shall take precedence over energy dispatch signals and instructions. Those providing regulation shall exert all reasonable efforts to operate, or ensure the operation of, their resources supplying load in the PJM Control Area as close to desired output levels as practical, consistent with Good Utility Practice.
 - i. Each RTO on behalf of its Native Load Customers, Network Customer or other Transmission Customer serving load within the PJM Control Area shall have an hourly regulation objective equal to its *pro rata* share of the PJM Control Area regulation requirements for the hour, based on the entity's total load in the PJM Control Area for the hour.
 - j. An entity supplying regulation at the direction of the Office of the Interconnection in excess of its hourly regulation obligation shall be credited for each increment of such regulation at the price in that hour for the regulation class (which, for purposes of this schedule shall mean a subset of the generation units capable of providing regulation to the PJM Control Area determined by a range of costs for providing regulation as specified by the Office of the Interconnection under its procedures) from which the

regulation was supplied, as determined by the Office of the Interconnection in accordance with its procedures. An RTO, Network Customer or other Transmission Customer that does not meet its hourly regulation obligation shall be charged for regulation dispatched by the Office of the Interconnection to meet such obligation at the average price paid by the Office of the Interconnection for regulation.

- k. Each supplier of regulation that is also an RTO obtaining regulation on behalf of its Native Load Customers, a Network Customer or other Transmission Customer serving load within the PJM Control Area shall have an hourly regulation objective as specified in paragraph i, and shall be credited or charged in connection therewith as specified in paragraph j. All others supplying Regulation at the direction of the Office of the Interconnection shall be credited for each increment of such regulation at the price in that hour for the regulation class from which the regulation was supplied, as determined by the Office of the Interconnection in accordance with its procedures.

SCHEDULE 4**Energy Imbalance Service**

Energy Imbalance Service is provided when a difference occurs between the scheduled and the actual delivery of energy to a load located within a Control Area over a single hour. The Transmission Provider must offer this service when the transmission service is used to serve load within its Control Area. Each RTO and Network Customer must purchase Energy Imbalance Service through the Transmission Provider.

For each RTO and Network Customer, Energy Imbalance Service is considered to be PJM interchange and will be charged at the hourly PJM interchange rate.

For each Transmission Customer receiving service under Part II of this Tariff, the Transmission Provider shall establish a deviation band of +/- 1.5 percent (with a minimum of 1 MW) of the scheduled transaction to be applied hourly to any energy imbalance that occurs as a result of the Transmission Customer's scheduled transaction(s). Parties should attempt to eliminate energy imbalances within the limits of the deviation band within thirty (30) days or within such other reasonable period of time as is generally accepted in the region and consistently adhered to by the Transmission Provider. If an energy imbalance is not corrected within thirty (30) days or a reasonable period of time that is generally accepted in the region and consistently adhered to by the Transmission Provider, the Transmission Customer will compensate the Transmission Provider for such service. Energy imbalances outside the deviation band will be subject to charges set forth below.

Energy imbalance will be recorded in whole MWh, and will be tracked separately for on-peak and off-peak hours, as specified for operations. For on-peak (off-peak) hours when the energy imbalance is within the +/- 1.5% deviation band, the Transmission Customer can choose to make in-kind payment during later on-peak (off-peak) hours as specified above, or settle in cash. Cash payments owed to the Transmission Provider will be charged at 120% of the Transmission Provider's on-peak (off-peak) billing rate. Cash payments to the Transmission Customer will be made at 80% of the Transmission Provider's on-peak (off-peak) billing rate. For hours when the energy imbalance exceeds the +/- 1.5% deviation band, compensation will be in cash. Cash payments owed to the Transmission Provider will be charged at the higher of 150% of the Transmission Provider's billing rate for that hour or \$100 per MWh. Cash payments to the Customer will be made at 70% of the Transmission Provider's on-peak (off-peak) billing rate.

Payments made for energy imbalance service shall be credited as follows: Payments in excess of the hourly market clearing price (made when a Transmission Customer does not

provide enough generation to meet its control area to control area schedule) shall be allocated on a pro rata basis among the suppliers that provided energy to the residual energy marketplace during that hour. The difference between the hourly market clearing price and payments below the hourly market clearing price (when a Transmission Customer provides more generation than is needed to meet its control area to control area schedule) shall be allocated on a pro rata basis among the load serving entities that purchased energy from the residual energy marketplace during that hour.

SCHEDULE 5

Operating Reserve - Spinning Reserve Service

Spinning Reserve Service is needed to serve load immediately in the event of a system contingency. Spinning Reserve Service may be provided by generating units that are on-line and loaded at less than maximum output. The Transmission Provider must offer this service when the transmission service is used to serve load within its Control Area. Each RTO and Network Customer must purchase this service from the Transmission Provider. The amount of and charges for Spinning Reserve Service, as defined in accordance with NERC operating policies, will be accounted and paid for as part of the Operating Reserves as set forth in Attachment K.

SCHEDULE 6

Operating Reserve - Supplemental Reserve Service

Supplemental Reserve Service is needed to serve load in the event of a system contingency; however, it is not available immediately to serve load but rather within a short period of time. Supplemental Reserve Service may be provided by generating units that are on-line but unloaded, by quick-start generation or by interruptible load. The Transmission Provider must offer this service when the transmission service is used to serve load within its Control Area. Each RTO and Network Customer must purchase this service from the Transmission Provider. The amount of Supplemental Reserve Service is accounted and paid for as set forth in Attachment K.

SCHEDULE 7

**Long-Term Firm and Short-Term Firm Point-To-Point
Transmission Service**

The Transmission Customer shall pay each month for Reserved Capacity at the sum of the applicable charges set forth below:

- 1) **Yearly delivery:** one-twelfth of the demand charge of \$ 22.382/KW of Reserved Capacity per year.
- 2) **Monthly delivery:** \$ 1.865/KW of Reserved Capacity per month.
- 3) **Weekly delivery:** \$ 0.4304/KW of Reserved Capacity per week.
- 4) **Daily delivery:** \$ 0.0861/KW of Reserved Capacity per day.

The total demand charge in any week, pursuant to a reservation for Daily delivery, shall not exceed the rate specified in section (3) above times the highest amount in kilowatts of Reserved Capacity in any day during such week.

5) **Discounts:** If the Transmission Provider offers or attributes a rate discount to an RTO or an affiliate of an RTO, the Transmission Provider must offer at the same time the same discounted Firm Point-To-Point Transmission Service rate to all Eligible Customers on the same path and on all unconstrained transmission paths. Information regarding any firm transmission discounts must be posted on the OASIS pursuant to Part 37 of the Commission's regulations. In addition, discounts to non-affiliates of RTOs must be offered in a not unduly discriminatory manner.

6) **Congestion and Losses:** In addition to any payment under this Schedule, the Transmission Customer shall pay Redispatch Costs as specified in Section 27 of the Tariff. The Transmission Customer shall be responsible for losses as specified in the Tariff.

7) **Other Supporting Facilities and Taxes:** In addition to the rates set forth in sections (1), (2), (3) and (4) of this schedule, the Transmission Customer shall pay charges determined on a case-by-case basis for facilities necessary to provide Transmission Service at voltages lower than those shown in Attachment H for the applicable Zone(s) and any amounts necessary to reimburse the Transmission Provider for any amounts payable as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

SCHEDULE 8

Non-Firm Point-To-Point Transmission Service

The Transmission Customer shall pay for Non-Firm Point-To-Point Transmission Service the sum of the applicable charges set forth below:

- 1) **Monthly delivery:** \$0.00/KW of Reserved Capacity per month.
- 2) **Weekly delivery:** \$0.00/KW of Reserved Capacity per week.
- 3) **Daily delivery:** \$0.00/KW of Reserved Capacity per day.

The total demand charge in any week, pursuant to a reservation for Daily delivery, shall not exceed the rate specified in section (2) above times the highest amount in kilowatts of Reserved Capacity in any day during such week.

- 4) **Hourly delivery:** The basic charge shall be that agreed upon by the Parties at the time this service is reserved and in no event shall exceed \$0.00/MWH.

The total demand charge in any day, pursuant to a reservation for Hourly delivery, shall not exceed the rate specified in section (3) above times the highest amount in kilowatts of Reserved Capacity in any hour during such day. In addition, the total demand charge in any week, pursuant to a reservation for Hourly or Daily delivery, shall not exceed the rate specified in section (2) above times the highest amount in kilowatts of Reserved Capacity in any hour during such week.

- 5) **Discounts:** If the Transmission Provider offers or attributes a discounted transmission rate to an RTO or to an affiliate of an RTO, the Transmission Provider must offer at the same time the same discounted Non-Firm Point-To-Point Transmission Service rate to all Eligible Customers on the same path and on all unconstrained transmission paths. Information regarding any non-firm transmission discounts must be posted on the OASIS pursuant to Part 37 of the Commission's regulations. In addition, discounts to non-affiliates must be offered in a not unduly discriminatory manner.

- 6) **Congestion and Losses:** A Transmission Customer desiring Non-Firm Point-to-Point Transmission Service may elect to pay transmission congestion charges. If the Transmission Customer so elects, it shall pay any applicable Redispatch Cost as specified in Section 27 of

the Tariff. The Transmission Customer shall be responsible for losses as specified in the Tariff.

7) Other Supporting Facilities and Taxes: In addition to the charges set forth in section (1) of this schedule, the Transmission Customer shall pay charges determined on a case-by-case basis for facilities necessary to provide Transmission Service at voltages lower than those shown in Attachment H for the applicable Zone(s) and any amounts necessary to reimburse the Transmission Provider for any amounts payable as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

ATTACHMENT A

**Form of Service Agreement For
Firm Point-To-Point Transmission Service**

- 1.0 This Service Agreement, dated as of _____, is entered into, by and between the Office of the Interconnection, as agent on behalf of the Transmission Provider within the PJM Control Area, and _____ (“Transmission Customer”).
- 2.0 The Transmission Customer has been determined by the Office of the Interconnection to have a Completed Application for Firm Point-To-Point Transmission Service under the Tariff.
- 3.0 The Transmission Customer has provided to the Office of the Interconnection an Application deposit in the amount of \$ _____, in accordance with the provisions of Section 17.3 of the Tariff.
- 4.0 Service under this agreement shall commence on the later of (1) _____, or (2) the date on which construction of any Direct Assignment Facilities and/or Network Upgrades are completed, or (3) such other date as it is permitted to become effective by the Commission. Service under this agreement shall terminate on _____.
- 5.0 The Office of the Interconnection agrees to provide, on behalf of the Transmission Provider within the PJM Control Area, and the Transmission Customer agrees to take and pay for Firm Point-To-Point Transmission Service in accordance with the provisions of Part II of the Tariff and this Service Agreement.

6.0 Any notice or request made to or by either the Office of the Interconnection or the Transmission Customer regarding this Service Agreement shall be made to the representatives as indicated below.

Office of the Interconnection

PJM Interconnection Association
955 Jefferson Avenue
Valley Forge Corporate Center
Norristown, PA 19403-2497

Transmission Customer:

7.0 The Tariff is incorporated herein and made a part hereof.

IN WITNESS WHEREOF, the Office of the Interconnection and Transmission Customer have caused this Service Agreement to be executed by their respective authorized officials.

Office of the Interconnection:

By: _____
Name Title Date

Transmission Customer:

By: _____
Name Title Date

CERTIFICATION

I, _____, certify that I am a duly authorized officer of
_____ (Transmission Customer) and that
_____ (Transmission Customer) will not request service
under this Service Agreement to assist an Eligible Customer to avoid the reciprocity provision of
this Open-Access Transmission Tariff.

(Name)

(Title)

Subscribed and sworn before me this _____ day of _____, _____.

(Notary Public)

My Commission expires: _____

Specifications For Firm Point-To-Point
Transmission Service

- 1.0 Term of Transaction: _____
Start Date: _____
Termination Date: _____

- 2.0 Description of capacity and energy to be transmitted including the electric Control Area in which the transaction originates.

- 3.0 Point(s) of Receipt: _____
Delivering Party: _____

- 4.0 Point(s) of Delivery: _____
Receiving Party: _____

- 5.0 Maximum amount of capacity and energy to be transmitted (Reserved Transmission Capability) : _____

- 6.0 Designation of party(ies) subject to reciprocal service obligation: _____

- 7.0 Name(s) of any Intervening Systems providing transmission service: _____

8.0 *Service under this Agreement may be subject to some combination of the charges detailed below. (The appropriate charges for individual transactions will be determined in accordance with the terms and conditions of the Tariff.)*

8.1 *Transmission Charge:* _____

8.2 *System Impact and/or Facilities Study Charge(s):*

8.3 *Direct Assignment Facilities Charge:* _____

8.4 *Ancillary Services Charges:* _____

8.5 *Other Supporting Facilities Charge:* _____

ATTACHMENT B

**Form of Service Agreement For Non-Firm Point-To-Point
Transmission Service**

- 1.0 This Service Agreement, dated as of _____, is entered into, by and between the Office of the Interconnection, as agent for the Transmission Provider within the PJM Control Area, and _____ (Transmission Customer).
- 2.0 The Transmission Customer has been determined by the Office of the Interconnection to be a Transmission Customer under Part II of the Tariff and has filed a Completed Application for Non-Firm Point-To-Point Transmission Service in accordance with Section 18.2 of the Tariff.
- 3.0 Service under this Agreement shall be provided upon request by an authorized representative of the Transmission Customer.
- 4.0 The Transmission Customer agrees to supply information the Office of the Interconnection deems reasonably necessary in accordance with Good Utility Practice in order for it to provide the requested service.
- 5.0 The Office of the Interconnection agrees to provide, on behalf of the Transmission Providers within the PJM Control Area, and the Transmission Customer agrees to take and pay for Non-Firm Point-To-Point Transmission Service in accordance with the provisions of Part II of the Tariff and this Service Agreement.
- 6.0 Any notice or request made to or by either the Office of the Interconnection or the Transmission Customers regarding this Service Agreement shall be made to the representative as indicated below.

Office of the Interconnection:

PJM Interconnection Association
955 Jefferson Avenue
Valley Forge Corporate Center
Norrstown, PA 19403-2497

Transmission Customer:

7.0 The Tariff is incorporated herein and made a part hereof.

IN WITNESS WHEREOF, the Office of the Interconnection and the Transmission Customer have caused this Service Agreement to be executed by their respective authorized officials.

Office of the Interconnection:

By: _____
Name Title Date

Transmission Customer:

By: _____
Name Title Date

CERTIFICATION

I, _____, certify that I am a duly authorized officer of
_____ (Transmission Customer) and that
_____ (Transmission Customer) will not request
service under this Service Agreement to assist an Eligible Customer to avoid the
reciprocity provision of this Open-Access Transmission Tariff.

(Name)

(Title)

Subscribed and sworn before me this ____ day of _____, _____.

(Notary Public)

My Commission expires: _____

ATTACHMENT C**Methodology To Assess Available Transfer Capability**

The Transmission Provider will assess available transfer capability (ATC). The Transmission Provider will post firm and non-firm ATC projections on the OASIS for interfaces between the PJM Control Area and neighboring Control Areas, and other path locations of significant commercial interest will be added as appropriate.

ATC of a particular path is an approximate indication of the anticipated transmission transfer capability remaining on the transmission network that could be scheduled for further commercial activity relative to the designated path under the conditions studied. Specific study of conditions, including source and sink of generation and load, is required before firm transmission service commitments can be made.

Transfer capability of the transmission network is limited by physical and electrical characteristics of the system including thermal equipment loading, voltage, and stability considerations. Transfer capability is evaluated based on base system loading and an assessment of critical contingencies on the transmission system. The critical contingencies will be defined as appropriate using guidelines set forth in the PJM Manuals. The Transmission Provider's calculation of transfer capability will be consistent with the principles in the NERC document "Available Transfer Capability Definitions and Determination." These calculations will be performed through a combination of planning and operational analyses, employing both Energy Management System real-time functionality and off-line analytical tools as appropriate. Firm and non-firm ATC will be determined consistent with NERC discussion of Recallable and Non-recallable ATC, taking into account the transmission reliability margin and capacity benefit margin in order to preserve the emergency capability of the PJM Control Area to serve load serving entities. Firm ATC on any path will be limited to assure that emergency import capability will be available to network service holders when needed through the reservation of capacity benefit margin, as discussed by NERC, equivalent to a firm transmission service reservation for delivery from systems outside of the PJM Control Area to serve the load serving entities within the PJM Control Area.

Determination of ATC will require, in all cases, that base system conditions be identified and modeled for the period being analyzed. These conditions will include projected customer demand, anticipated generation availability, anticipated transmission system facility availability, expected energy transactions for the PJM Control Area, and

information about neighboring regions that affect the transfer capability of the PJM Control Area. For daily and hourly calculations, these conditions will be based on the Transmission Provider's operational assessments of load trends, unit commitment profiles, maintenance schedules and transaction schedules. Monthly and longer term calculations will be based on planning loads, expected maintenance schedules, typical generation patterns, and known transaction reservations.

ATTACHMENT D**Methodology for Completing a System Impact Study**

The Transmission Provider will notify applicants for transmission service of the need to conduct a System Impact Study whenever the Transmission Provider determines that available transmission capability may not be sufficient to provide the requested firm service(s). The purpose of the impact study will be to determine the effect the requested service(s) will have on system operations, identify any system constraints, redispatch options and whether system expansion will be required to provide the requested service(s).

The Commission's comparability standard will be applied in evaluating the impact of all requests. Specifically, the Transmission Provider will use the same due diligence in completing System Impact Studies for any Eligible Customers that it uses when completing studies for any RTO that requests service from the Transmission Provider.

Requests for long-term firm transmission service will be evaluated, to the extent possible, as a part of the on-going planning process for Bulk Transmission Supply in the PJM Control Area. Appropriate planning studies will be conducted annually to assess the capability of the PJM Control Area Transmission System to deliver the planned Network Resources to the Forecasted Network Loads of the existing load serving entities and any prior committed Firm Point-to-Point Service transmission customers. The loads and resources of Eligible Customers requesting new or additional service during the normal planning cycle will be incorporated into this aggregate planning process along with the loads and resources of all other Firm Point-to-Point and load serving entities for which prior commitments to provide service have been made. Requests for long-term firm service made at times that will not permit the evaluation of impacts as part of the normal planning process, and requests for short-term firm service, will require that special impact studies be completed.

The Transmission Provider plans and evaluates the PJM Control Area Transmission System in strict compliance with the following:

1. North American Electric Reliability Council (NERC) Reliability Principles and Guides

2. Principles and Standards for Planning the Bulk Electric Systems of the Mid-Atlantic Area Council (MAAC) Region
3. Transmission planning criteria, methods and procedures described in the "FERC Form No. 715 - Annual Transmission Planning and Evaluation Report" for the MAAC Region.

In evaluating the impact of any request for new or additional service(s), the Transmission Provider will first determine the capability of the system to reliably provide prior committed Network and Point-to-Point service for the term of the requested new or additional service(s), or the normal planning horizon (generally 10 years), whichever is shorter. Requests for new or additional service(s) will then be incorporated into the system representation data and the appropriate system analyses will be completed to evaluate the impacts of the requested services.

ATTACHMENT E

Index of Point-To-Point Transmission Service Customers

<u>Customer</u>	<u>Date of Service Agreement</u>
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ATTACHMENT F

**Service Agreement For
Network Integration Transmission Service**

- 1.0 This Service Agreement, dated as of _____, is entered into, by and between the Office of the Interconnection, as agent on behalf of the Transmission Provider within the PJM Control Area and _____ ("Transmission Customer").
- 2.0 The Transmission Customer has been determined by the Office of the Interconnection to have a valid request for Network Transmission Service under the Tariff and to have satisfied the conditions for service imposed by the Tariff.
- 3.0 The Transmission Customer has provided to the Office of the Interconnection an Application deposit in the amount of \$_____, which will be applied to charges for service under this Agreement in accordance with the provisions of Section 29.2 of the Tariff.
- 4.0 Service under this agreement shall commence on the later of: (1) _____ - _____, or (2) the date on which construction of any Direct Assignment Facilities and/or Network Upgrades are completed, or (3) such other date as it is permitted to become effective by the Commission. Service under this agreement shall terminate on _____.
- 5.0 The Office of the Interconnection agrees to provide, on behalf of the Transmission Provider within the PJM Control Area, and the Transmission Customer agrees to take and pay for Network Transmission Service in accordance with the provisions of the Tariff, including the Network Operating Agreement (which is incorporated herein by reference), and this Service Agreement as they may be amended from time to time.
- 6.0 Any notice or request made to or by either Party regarding this Service Agreement shall be made to the representative of the other Party as indicated below.

Office of the Interconnection:

PJM Interconnection Association
955 Jefferson Avenue
Valley Forge Corporate Center
Norristown, PA 19403-2497

Transmission Customer:

7.0 The Tariff for Network Integration Transmission Service is incorporated herein and made a part hereof.

IN WITNESS WHEREOF, the Office of the Interconnection and Transmission Customer have caused this Service Agreement to be executed by their respective authorized officials.

Office of the Interconnection:

By: _____
Name Title Date

Transmission Customer:

By: _____
Name Title Date

CERTIFICATION

I, _____, certify that I am a duly authorized officer of
_____ (Transmission Customer) and that
_____ (Transmission Customer) will not request service
under this Service Agreement to assist an Eligible Customer to avoid the reciprocity provision of
this Open-Access Transmission Tariff.

(Name)

(Title)

Subscribed and sworn before me this ____ day of _____, _____.

(Notary Public)

My Commission expires: _____

SPECIFICATIONS FOR
NETWORK INTEGRATION TRANSMISSION SERVICE

1.0 Term of Transaction: _____

Start Date: _____

Termination Date: _____

2.0 Description of capacity and/or energy to be transmitted within the PJM Control Area (including electric control area in which the transaction originates).

3.0 Network Resources: _____

4.0 Network Load: _____

5.0 Maximum amount of capacity and/or energy to be transmitted (Contract Demand):

6.0 Designation of party subject to reciprocal service obligation: _____

7.0 Name(s) of any Intervening Systems providing transmission service: _____

8.0 Service under this Agreement may be subject to some combination of the charges detailed below. (The appropriate charges for individual transactions will be determined in accordance with the terms and conditions of the tariff.)

8.1 Embedded Cost Transmission Charge: _____

8.2 Facilities Study Charge: _____

8.3 Direct Assignment Facilities Charge: _____

8.4 Ancillary Services Charge: _____

8.5 Other Supporting Facilities Charge: _____

ATTACHMENT G

Network Operating Agreement

The PJM Interconnection Agreement, as amended from time to time, shall constitute the Network Operating Agreement for Network Customers serving load in the PJM Control Area. For other Network Customers, a Network Operating Agreement shall be negotiated, which shall address: (a) Control Area requirements, (b) redispatch procedures, (c) metering, (d) Control Area and data equipment, (e) operating requirements, (f) operating information requirements, (g) network planning, (h) the character of the service to be provided, (i) the transfer of power and energy through other systems, and (j) such other matters as the parties deem appropriate.

ATTACHMENT H-1

**Annual Transmission Rates -- Atlantic City Electric Company
for Network Integration Transmission Service**

1. The annual transmission revenue requirement is \$34,344,987, which reflects the facilities within the Zone of 138 kV and higher voltage. Service utilizing facilities at voltages below 138 kV will be provided at rates determined on a case-by-case basis.^{1/}
2. The revenue requirement in (1) shall be effective until amended by the Regional Transmission Owner(s) within the Zone or modified by the Commission.
3. In addition to the rate set forth in section 1 of this attachment, a Network Customer purchasing Network Integration Transmission Service shall pay for transmission congestion charges, in accordance with the provisions of the Tariff, and any amounts necessary to reimburse the Regional Transmission Owners for any amounts payable by them as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

^{1/}In addition to the rate set forth in section 1 of this attachment, a Network Customer requiring the use of Atlantic Electric's lower voltage facilities (facilities below 138-kV) to effect the delivery of power and energy under this Tariff shall be assessed an additional charge to reflect the use of Atlantic Electric's lower voltage facilities. Customers subject to this charge include Vineland Municipal Electric Utility. Vineland's lower-voltage charge shall be a phased-in rate capped at \$10,000/MW-year and will be specified in the service agreement for Vineland. The charge for other Network Customers will be included in their service agreements.

Revised: March 1, 1997

ATTACHMENT H-2

**Annual Transmission Rates -- Baltimore Gas and Electric Company
for Network Integration Transmission Service**

1. The annual transmission revenue requirement rate is \$84,124,139, which reflects the facilities recorded in FERC Form 1, page 207.53 as transmission. Service utilizing other facilities will be provided at rates determined on a case-by-case basis.
2. The revenue requirement in (1) shall be effective until amended by the Regional Transmission Owner(s) within the Zone or modified by the Commission.
3. In addition to the rate set forth in section 1 of this attachment, the Network Customer purchasing Network Integration Transmission Service shall pay for transmission congestion charges, in accordance with the provisions of the Tariff, and any amounts necessary to reimburse the Regional Transmission Owners for any amounts payable by them as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

ATTACHMENT H-3

**Annual Transmission Rates -- Delmarva Power & Light Company
for Network Integration Transmission Service**

1. The annual transmission revenue requirement is \$46,842,773,^{2/} which reflects the facilities within the Zone of 69 kV and higher voltage. Service utilizing facilities at voltages below 69 kV will be provided at rates determined on a case-by-case basis.
2. The rate in (1) shall be effective until amended by the Regional Transmission Owner(s) within the Zone or modified by the Commission.
3. In addition to the rate set forth in section 1 of this attachment, the Network Customer purchasing Network Integration Transmission Service shall pay for transmission congestion charges, in accordance with the provisions of the Tariff, and any amounts necessary to reimburse the Regional Transmission Owners for any amounts payable by them as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

^{2/}The annual transmission revenue requirement of \$46,842,773 is an adjusted revenue requirement based on an annual revenue requirement of \$53,609,231 less annual revenues of \$2,512,264 from the LDV Agreement, \$440,583 from DMEC Wheeling, \$3,551,402 from ODEC Wheeling, and \$262,209 from interruptible demand.

ATTACHMENT H-4

**Annual Transmission Rates -- Jersey Central Power & Light Company
for Network Integration Transmission Service**

1. The annual transmission revenue requirement is \$98,762,045, which reflects the facilities within the Zone of 34.5 kV delta and higher voltage. Service utilizing facilities at voltages below 34.5 kV delta will be provided at rates determined on a case-by-case basis.
2. The rate in (1) shall be effective until amended by the Regional Transmission Owner(s) within the Zone or modified by the Commission.
3. In addition to the rate set forth in section 1 of this attachment, the Network Customer purchasing Network Integration Transmission Service shall pay for transmission congestion charges, in accordance with the provisions of the Tariff, and any amounts necessary to reimburse the Regional Transmission Owners for any amounts payable by them as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

ATTACHMENT H-5

**Annual Transmission Rates -- Metropolitan Edison Company
for Network Integration Transmission Service**

1. The annual transmission revenue requirement is \$25,211,390, which reflects the facilities within the Zone of 34.5 kV delta and higher voltage. Service utilizing facilities at voltages below 34.5 kV delta will be provided at rates determined on a case-by-case basis.
2. The rate in (1) shall be effective until amended by the Regional Transmission Owner(s) within the Zone or modified by the Commission.
3. In addition to the rate set forth in section 1 of this attachment, the Network Customer purchasing Network Integration Transmission Service shall pay for transmission congestion charges, in accordance with the provisions of the Tariff, and any amounts necessary to reimburse the Regional Transmission Owners for any amounts payable by them as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

ATTACHMENT H-6

**Annual Transmission Rates -- Pennsylvania Electric Company
for Network Integration Transmission Service**

1. The annual transmission revenue requirement is \$25,532,586, which reflects the facilities within the Zone of 46 kV and higher voltage. Service utilizing facilities at voltages below 46 kV will be provided at rates determined on a case-by-case basis.
2. The rate in (1) shall be effective until amended by the Regional Transmission Owner(s) within the Zone or modified by the Commission.
3. In addition to the rate set forth in section 1 of this attachment, the Network Customer purchasing Network Integration Transmission Service shall pay for transmission congestion charges, in accordance with the provisions of the Tariff, and any amounts necessary to reimburse the Transmission Owners for any amounts payable by them as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

ATTACHMENT H-7

**Annual Transmission Rates -- PECO Energy Company
for Network Integration Transmission Service**

1. The annual transmission revenue requirement is \$154,469,000, which reflects the facilities recorded in FERC Form 1, as transmission for PECO Energy Company and its subsidiaries. Service utilizing other facilities will be provided at rates determined on a case-by-case basis.
2. The rate in (1) shall be effective until amended by the Regional Transmission Owner(s) within the Zone or modified by the Commission.
3. In addition to the rate set forth in section 1 of this attachment, the Network Customer purchasing Network Integration Transmission Service shall pay for transmission congestion charges, in accordance with the provisions of the Tariff, and any amounts necessary to reimburse the Regional Transmission Owners for any amounts payable by them as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

ATTACHMENT H-8

**Annual Transmission Rates -- Pennsylvania Power & Light Company Group
for Network Integration Transmission Service**

1. The annual transmission revenue requirement is \$144,774,000 which reflects the facilities within the Zone of 69 kV and higher voltage. Service utilizing facilities at voltages below 69kV will be provided at rates determined on a case-by-case basis.
2. The rate in (1) shall be effective until amended by the Regional Transmission Owner(s) within the Zone or modified by the Commission.
3. In addition to the rate set forth in section 1 of this attachment, the Network Customer purchasing Network Integration Transmission Service shall pay for transmission congestion charges, in accordance with the provisions of the Tariff, and any amounts necessary to reimburse the Regional Transmission Owners for any amounts payable by them as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

ATTACHMENT H-9

**Annual Transmission Rates -- Potomac Electric Power Company
for Network Integration Transmission Service**

1. The annual transmission revenue requirement is \$95,880,433, which reflects the facilities within the Zone of 115kV and higher voltage. Service utilizing facilities at voltages below 115kV will be provided at rates determined on a case-by-case basis.
2. The rate in (1) shall be effective until amended by the Regional Transmission Owner(s) within the Zone or modified by the Commission.
3. In addition to the rate set forth in section 1 of this attachment, the Network Customer purchasing Network Integration Transmission Service shall pay for transmission congestion charges, in accordance with the provisions of the Tariff, and any amounts necessary to reimburse the Regional Transmission Owners for any amounts payable by them as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

ATTACHMENT H-10

**Annual Transmission Rates -- Public Service Electric and Gas Company
for Network Integration Transmission Service**

1. The annual transmission revenue requirement is \$157,587,365, which reflects the facilities within the Zone of 138kV and higher voltage. Service utilizing facilities at voltages below 138kV will be provided at rates determined on a case-by-case basis.
2. The rate in (1) shall be effective until amended by the Regional Transmission Owner(s) within the Zone or modified by the Commission.
3. In addition to the rate set forth in section 1 of this attachment, the Network Customer purchasing Network Integration Transmission Service shall pay for transmission congestion charges, in accordance with the provisions of the Tariff, and any amounts necessary to reimburse the Regional Transmission Owners for any amounts payable by them as sales, excise, "Btu," carbon, value-added or similar taxes (other than taxes based upon or measured by net income) with respect to the amounts payable pursuant to the Tariff.

ATTACHMENT I

Index of Network Integration Transmission Service Customers

<u>Customer</u>	<u>Date of Service Agreement</u>
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ATTACHMENT J

PJM Control Area Transmission Zones

(See Attached)

ATTACHMENT K**Regulation, Operating Reserves, and Losses**

Preface. The provisions of this attachment incorporate into the Tariff for ease of reference the provisions of Schedule 7.01 of the PJM Interconnection Agreement. As a result, this attachment will be modified, subject to the approval of the Federal Energy Regulatory Commission, so that the terms and conditions set forth herein remain consistent with the corresponding terms and conditions of Schedule 7.01 of the PJM Interconnection Agreement. All references in this attachment to "Agreement" or "Schedules" are references to the PJM Interconnection Agreement and the schedules thereto unless otherwise noted. References to Schedule 7.01 are references to this attachment.

SCHEDULE 7.01-1 TO ATTACHMENT K**PJM INTERCHANGE ENERGY MARKET**

1.1 Introduction. This Schedule sets forth the scheduling, other procedures, and certain general provisions applicable to the operation of the PJM Interchange Energy Market within the PJM Control Area. This Schedule addresses each of the three time-frames pertinent to the daily operation of the PJM Interchange Energy Market: Prescheduling, Scheduling, and Dispatch.

1.2 Cost-based Offers. Unless and until the FERC shall authorize the use of market-based prices in the PJM Interchange Energy Market, all offers for energy or other services to be sold on the PJM Interchange Energy Market from generating resources located within the PJM Control Area shall not exceed the variable cost of producing such energy or other service, as determined in accordance with Schedule 8.01 to the Pennsylvania-Maryland-New Jersey Interconnection Agreement ("PJM Interconnection Agreement") and applicable regulatory standards, requirements and determinations; provided that, a Market Seller may offer to the PJM Interchange Energy Market the right to call on energy from a resource the output of which has been sold on a bilateral basis, with the rate for such energy if called equal to the curtailment rate specified in the bilateral contract.

1.3 Definitions.

1.3.1 Capacity Resource shall mean a generating resource of a Party Hereto designated and qualified to meet such Party Hereto's obligations to share capacity reserves in accordance with the PJM Interconnection Agreement.

1.3.2 Control Area shall mean an electric power system or combination of electric power systems bounded by interconnection metering and telemetry to which a common generation control scheme is applied in order to:

- (a) match the power output of the generators within the electric power system(s) and energy purchased from entities outside the electric power system(s), with the load within the electric power system(s);
- (b) maintain scheduled interchange with other Control Areas, within the limits of Good Utility Practice;
- (c) maintain the frequency of the electric power system(s) within reasonable limits in accordance with Good Utility Practice and the criteria of the applicable regional reliability council of NERC;
- (d) maintain power flows on transmission facilities within appropriate limits to preserve reliability; and
- (e) provide sufficient generating capacity to maintain operating reserves in accordance with Good Utility Practice.

1.3.3 Dispatch Rate shall mean the control signal, expressed in dollars per megawatt-hour, calculated and transmitted continuously and dynamically to direct the output level of all generation resources dispatched by the Office of the Interconnection in accordance with the Offer Data.

1.3.4 Emergency shall mean: (i) an abnormal system condition requiring manual or automatic action to maintain system frequency, or to prevent loss of firm load, equipment damage, or tripping of system elements that could adversely affect the reliability of an electric system or the safety of persons or property; or (ii) a fuel shortage requiring departure from normal operating procedures in order to minimize the use of such scarce fuel; or (iii) a condition that requires implementation of emergency procedures as defined in the PJM Manuals.

1.3.5 Equivalent Load shall mean the sum of an Internal Market Buyer's net system requirements to serve its customer load in the PJM Control Area, plus its net bilateral transactions.

1.3.6 External Market Buyer shall mean a Market Buyer making purchases of energy from the PJM Interchange Energy Market for consumption by end-users outside the PJM Control Area, or for load in the Control Area that is not served by Network Transmission Service.

1.3.7 External Resource shall mean a generation resource located outside the metered boundaries of the PJM Control Area.

1.3.8 First Contingency Basis shall mean operation of the bulk power electric supply system in the PJM Control Area in a manner intended to protect against the consequences of the failure or malfunction of any single bulk power facility, such that prior to a contingency occurring (a) the loading on all such bulk power facilities is maintained within normal continuous ratings, and (b) voltages are maintained at predetermined normal schedules at all load levels; and such that immediately following any single facility malfunction or failure (i) the loading on all

remaining facilities can be expected to be within emergency ratings, (ii) system stability is maintained, and (iii) an acceptable voltage profile is maintained.

1.3.9 Generating Market Buyer shall mean an Internal Market Buyer that owns or has contractual rights to the output of generation resources capable of serving the Market Buyer's load in the PJM Control Area, or of selling energy or related services in the PJM Interchange Energy Market or elsewhere.

1.3.10 Generator Forced Outage shall mean an immediate reduction in output or capacity or removal from service, in whole or in part, of a generating unit by reason of an Emergency or threatened Emergency, unanticipated failure, or other cause beyond the control of the owner or operator of the facility, as specified in the relevant portions of the PJM Manuals. A reduction in output or removal from service of a generating unit in response to changes in or to affect market conditions shall not constitute a Generator Forced Outage.

1.3.11 Generator Maintenance Outage shall mean the scheduled removal from service, in whole or in part, of a generating unit in order to perform necessary repairs on specific components of the facility, if removal of the facility meets the guidelines specified in the PJM Manuals.

1.3.12 Generator Planned Outage shall mean the scheduled removal from service, in whole or in part, of a generating unit for inspection, maintenance or repair with the approval of the Office of the Interconnection in accordance with the PJM Manuals.

1.3.13 Good Utility Practice shall mean any of the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather is intended to include acceptable practices, methods, or acts generally accepted in the region.

1.3.14 Internal Market Buyer shall mean a Market Buyer making purchases of energy from the PJM Interchange Energy Market for consumption by end-users inside the PJM Control Area.

1.3.15 Load Serving Entity shall mean an entity that has been granted the authority or has an obligation pursuant to State or local law, regulation or franchise to sell electric energy to end-users located within the PJM Control Area, or the duly designated agent of such an entity.

1.3.16 Unconstrained Market Clearing Price shall mean the hourly market clearing price for energy calculated as specified in Appendix A to Schedule 7.01-1.

1.3.17 Market Buyer shall mean a Party Hereto that has met reasonable creditworthiness standards established by the Office of the Interconnection and that is otherwise able to make purchases in the PJM Interchange Energy Market.

1.3.18 Market Operations Center shall mean the equipment, facilities and personnel used by or on behalf of a Market Participant to communicate and coordinate with the Office of the Interconnection in connection with transactions in the PJM Interchange Energy Market or the operation of the PJM Control Area.

1.3.19 Market Participant shall mean a Market Buyer or a Market Seller, or both.

1.3.20 Market Seller shall mean a Party Hereto that has met reasonable creditworthiness standards established by the Office of the Interconnection and that is otherwise able to make sales in the PJM Interchange Energy Market.

1.3.21 Maximum Generation Emergency shall mean an Emergency declared by the Office of the Interconnection in which the Office of the Interconnection anticipates requesting one or more Capacity Resources to operate at its maximum net or gross electrical power output, subject to the equipment stress limits for such Capacity Resource, in order to manage, alleviate, or end the Emergency.

1.3.22 Network Service User shall mean an entity using Network Transmission Service.

1.3.23 Network Transmission Service shall mean transmission service provided pursuant to the rates, terms and conditions set forth in Part III of the Tariff.

1.3.24 Normal Maximum Generation shall mean the highest output level of a generating resource under normal operating conditions.

1.3.25 Normal Minimum Generation shall mean the lowest output level of a generating resource under normal operating conditions.

1.3.26 Offer Data shall mean the scheduling, operations planning, dispatch, new resource, and other data and information necessary to schedule and dispatch generation resources for the provision of energy and other services and the maintenance of the reliability and security of the transmission system in the PJM Control Area, and specified for submission to the PJM Interchange Energy Market for such purposes by the Office of the Interconnection.

1.3.27 Office of the Interconnection Control Center shall mean the equipment, facilities and personnel used by the Office of the Interconnection to coordinate and direct the operation of the PJM Control Area and to administer the PJM Interchange Energy Market, including facilities and equipment used to communicate and coordinate with the Market Participants in connection with transactions in the PJM Interchange Energy Market or the operation of the PJM Control Area.

1.3.28 Operating Day shall mean the daily 24 hour period beginning at midnight for which transactions on the PJM Interchange Energy Market are scheduled.

1.3.29 Operating Reserves shall mean the amounts of generating capacity scheduled to be available for specified periods of an Operating Day to ensure the reliable operation of the PJM Control Area, as specified in the PJM Manuals.

1.3.30 PJM Control Area shall mean the Control Area recognized by NERC as the PJM Control Area.

1.3.31 PJM Interchange shall mean the following, as determined in accordance with the Schedules to the PJM Interconnection Agreement and the PJM Manuals: (a) the amount by which an Internal Market Buyer's hourly Equivalent Load exceeds, or is exceeded by, the sum of the hourly outputs of the Internal Market Buyer's operating generating resources; or (b) the hourly scheduled deliveries of Spot Market Energy by an External Market Seller; or (c) the hourly net metered output of any other Market Seller; or (d) the hourly scheduled deliveries of Spot Market Energy to an External Market Buyer.

1.3.32 PJM Interchange Energy Market shall mean the regional competitive market for the purchase and sale of electric energy at wholesale in interstate commerce and related services established pursuant to this Schedule.

1.3.33 PJM Interchange Export shall mean the following, as determined in accordance with Schedules to the PJM Interconnection Agreement and the PJM Manuals: (a) the amount by which an Internal Market Buyer's hourly Equivalent Load is exceeded by the sum of the hourly outputs of the Internal Market Buyer's operating generating resources; or (b) the hourly scheduled deliveries of Spot Market Energy by an External Market Seller; or (c) the hourly net metered output of any other Market Seller.

1.3.34 PJM Interchange Import shall mean the following, as determined in accordance with the Schedules to the PJM Interconnection Agreement and the PJM Manuals: (a) the amount by which an Internal Market Buyer's hourly Equivalent Load exceeds the sum of the hourly outputs of the Internal Market Buyer's operating generating resources; or (b) the hourly scheduled deliveries of Spot Market Energy to an External Market Buyer.

1.3.35 PJM Manuals shall mean the instructions, rules, procedures and guidelines established by the Office of the Interconnection for the operation, planning, and accounting requirements of the PJM Control Area and the PJM Interchange Energy Market.

1.3.36 PJM Open Access Same-time Information System shall mean the electronic communication system for the collection and dissemination of information about transmission services in the PJM Control Area, established and operated by the Office of the Interconnection in accordance with FERC standards and requirements.

1.3.37 Planned Transmission Outage shall have the meaning specified in the Transmission Owners Agreement.

1.3.38 Ramping Capability shall mean the sustained rate of change of generator output, in megawatts per minute.

1.3.39 Regulation shall mean the capability of a specific generating unit with appropriate telecommunications, control and response capability to increase or decrease its output in response to a regulating control signal, in accordance with the specifications in the PJM Manuals.

1.3.40 Regulation Class shall mean a subset of the generation units capable of providing Regulation to the PJM Control Area determined by a range of costs for providing Regulation as specified by the Office of the Interconnection using procedures specified in the PJM Manuals.

1.3.41 Spot Market Energy shall mean energy bought or sold by Market Participants through the PJM Interchange Energy Market at the Unconstrained Market Clearing Price determined as specified in Appendix A to Schedule 7.01-1 of this Attachment.

1.3.42 Tariff shall mean the PJM Control Area Open Access Transmission Tariff.

1.3.43 Redispatch Cost shall mean the specific cost for providing transmission constraint control as set forth in Appendix A to Schedule 7.01-1 of this Attachment.

1.3.44 [Not used]

1.4 General.

1.4.1 Relationship to PJM Control Area. The PJM Interchange Energy Market operates within and subject to the requirements for the operation of the PJM Control Area.

1.4.2 PJM Manuals. The Office of the Interconnection shall be responsible for maintaining, updating, and promulgating the PJM Manuals as they relate to the operation of the PJM Interchange Energy Market. The PJM Manuals, as they relate to the operation of the PJM Interchange Energy Market, shall conform and comply with the PJM Interconnection Agreement, NERC operating policies, and MAAC reliability principles, guidelines and standards, and shall be designed to facilitate administration of an efficient energy market within industry reliability standards and the physical capabilities of the PJM Control Area.

1.4.3 Corrective Action. Consistent with Good Utility Practice, the Office of the Interconnection shall be authorized to direct or coordinate corrective action, whether or not specified in the PJM Manuals, as necessary to alleviate unusual conditions that threaten the integrity or reliability of the PJM Control Area or the regional power system.

1.4.4 Recording. Subject to the requirements of applicable State or federal law, all voice communications with the Office of the Interconnection Control Center may be recorded by the Office of the Interconnection and any Market Participant communicating with the Office of the Interconnection Control Center, and each Market Participant hereby consents to such recording.

1.4.5 Operating Reserves. The Office of the Interconnection shall schedule to the Operating Reserve and load-following objectives of the PJM Control Area, as defined in the PJM Manuals, in scheduling resources pursuant to this Schedule.

1.4.6 Regulation.

(a) Regulation shall be supplied from generators located within the metered electrical boundaries of the PJM Control Area. Generating Market Buyers, and Market Sellers offering Regulation, shall comply with applicable standards and requirements for Regulation capability and dispatch specified in the PJM Manuals.

(b) The Office of the Interconnection shall obtain and maintain an amount of Regulation equal to the PJM Control Area Regulation objective as specified in the PJM Manuals.

(c) The Regulation range of a unit shall be at least twice the amount of Regulation assigned.

(d) A unit capable of automatic energy dispatch that is also providing Regulation shall have its energy dispatch range reduced from the Regulation range by twice the amount of the Regulation provided. The amount of Regulation provided by a unit shall serve to redefine the Normal Minimum Generation and Normal Maximum Generation energy limits of that unit, in that the amount of Regulation shall be added to the unit's Normal Minimum Generation energy limit, and subtracted from its Normal Maximum Generation energy limit.

(e) Qualified Regulation must satisfy the verification tests described in the PJM Manuals.

1.4.7 Ramping. A generator dispatched by the Office of the Interconnection pursuant to a control signal appropriate to increase or decrease the generator's megawatt output level shall be able to change output at the ramping rate specified in the Offer Data submitted to the Office of the Interconnection for that generator.

1.4.8 Communication and Operating Requirements. Market Participants. Each Market Participant shall have, or shall arrange to have, its transactions in the PJM Interchange Energy Market subject to control by a Market Operations Center, with staffing and communications systems capable of real-time communication with the Office of the Interconnection and of control of the Market Participant's relevant load or facilities sufficient to meet the requirements of the Market Participant's transactions with the PJM Interchange Energy Market, including but not limited to the following requirements as applicable.

(a) Market Sellers selling from resources within the PJM Control Area shall: report to the Office of the Interconnection sources of energy available for operation; supply to the Office of the Interconnection all applicable Offer Data; report to the Office of the Interconnection units that are self-scheduled; report to the Office of the Interconnection bilateral sales transactions to buyers not within the PJM Control Area; confirm to the Office of the Interconnection bilateral sales to Market Buyers within the PJM Control Area; respond to the Office of the Interconnection's directives to start, shutdown or change output levels of generation units, or change scheduled voltages or reactive output levels; continuously maintain all Offer Data concurrent with on-line operating information; and ensure that, where so equipped, generating equipment is operated with control equipment functioning as specified in the PJM Manuals.

(b) Market Sellers selling from resources outside the PJM Control Area shall: provide to the Office of the Interconnection all applicable Offer Data, including offers specifying amounts of energy available, hours of availability and prices of energy and other services; respond to Office of the Interconnection directives to schedule delivery or change delivery schedules; and communicate delivery schedules to the Market Seller's Control Area.

(c) Internal Market Buyers shall: provide to the Office of the Interconnection forecasts of load to be served as required by the Office of the Interconnection; respond to Office of the Interconnection directives for load management steps; report to the Office of the Interconnection Capacity Resources to satisfy capacity obligations that are available for pool operation; report to the Office of the Interconnection all bilateral purchase transactions; respond

to other Office of the Interconnection directives such as those required during Emergency operation.

(d) External Market Buyers shall: provide to the Office of the Interconnection requests to purchase specified amounts of energy for each hour of the Operating Day during which it intends to purchase from the PJM Interchange Energy Market, along with Dispatch Rate levels above which it does not desire to purchase; respond to other Office of the Interconnection directives such as those required during Emergency operation.

1.5 Prescheduling. The following procedures and principles shall govern the prescheduling activities necessary to plan for the reliable operation of the PJM Control Area and for the efficient operation of the PJM Interchange Energy Market.

1.5.1 Outage Scheduling. The Office of the Interconnection shall be responsible for coordinating and approving requests for outages of generation and transmission facilities as necessary for the reliable operation of the PJM Control Area, in accordance with the PJM Manuals. The Office of the Interconnection shall maintain records of outages and outage requests of these facilities.

1.5.2 Planned Outages

(a) A Generator Planned Outage shall be included in Generator Planned Outage schedules established prior to the scheduled start date for the outage, in accordance with standards and procedures specified in the PJM Manuals.

(b) The Office of the Interconnection shall conduct Generator Planned Outage scheduling for Capacity Resources in accordance with procedures specified in the PJM Manuals. A Market Participant shall not be expected to submit offers for the sale of energy or other services, or to satisfy delivery obligations, from all or part of a generation resource undergoing an approved Generator Planned Outage. The Office of the Interconnection shall conduct Planned Transmission Outage scheduling in accordance with procedures specified in the Transmission Owners Agreement. The Office of the Interconnection shall coordinate resolution of outage or other planning conflicts that may give rise to unreliable system conditions.

(c) The Office of the Interconnection may withdraw its approval for a Generator Planned Outage of a Capacity Resource by notifying the Market Participant owning or controlling the resource in advance of the planned commencement of the outage in accordance with the deadlines for such notice specified in the PJM Manuals. Approval for a Generator Planned Outage of a Capacity Resource shall be withdrawn only as necessary to ensure the adequacy of reserves or the reliability of the PJM Control Area in connection with anticipated implementation or avoidance of Emergency procedures.

(d) During the prescheduling process, the Office of the Interconnection shall process and respond to requests for approval of Planned Transmission Outages in accordance with standards and procedures specified in the Transmission Owners Agreement and the PJM Manuals.

1.5.3 Generator Maintenance Outages

(a) A Market Participant may request approval for a Generator Maintenance Outage of any Capacity Resource from the Office of the Interconnection in accordance with the timetable and other procedures specified in the PJM Manuals. The Office of the Interconnection shall approve requests for Generator Maintenance Outages for a Capacity Resource unless the outage would threaten the adequacy of reserves in, or the reliability of, the PJM Control Area. A Market Participant shall not be expected to submit offers for the sale of energy or other services, or to satisfy delivery obligations, from a generation resource undergoing an approved full or partial Generator Maintenance Outage.

1.5.4 Forced Outages

(a) Each Market Seller that owns or controls a pool-scheduled resource, or Capacity Resource whether or not pool-scheduled, shall: (i) advise the Office of the Interconnection of a Generator Forced Outage suffered or anticipated to be suffered by any such resource as promptly as possible; (ii) provide the Office of the Interconnection with the expected date and time that the resource will be made available; and (iii) make a record of the events and circumstances giving rise to the Generator Forced Outage. A Market Seller shall not be expected to submit offers for the sale of energy or other services, or satisfy delivery obligations, from a generation resource undergoing a Generator Forced Outage. A Capacity Resource that does not deliver all or part of its scheduled energy shall be deemed to have experienced a Generator Forced Outage with respect to such undelivered energy, in accordance with standards and procedures for full and partial Generator Forced Outages specified in the Reserve Sharing Agreement and the PJM Manuals.

(b) The Office of the Interconnection shall receive notification of Forced Transmission Outages, and information on the return to service, of Transmission Facilities in the PJM Control Area in accordance with standards and procedures specified in the Transmission Owners Agreement and the PJM Manuals.

1.5.5 Market Participant Responsibilities. Each Market Participant making a bilateral sale covering a period greater than the following Operating Day from a generating resource located within the PJM Control Area for delivery outside the PJM Control Area shall furnish to the Office of the Interconnection the information specified in the PJM Manuals.

1.5.6 Internal Market Buyer Responsibilities. Each Internal Market Buyer making a bilateral purchase covering a period greater than the following Operating Day shall furnish to the Office of the Interconnection the information specified in the PJM Manuals. Each Internal Market Buyer shall provide the Office of the Interconnection with details of any load management agreements with customers that allow the Office of the Interconnection to reduce load under specified circumstances.

1.5.7 Market Seller Responsibilities

(a) Not less than 30 days before a Market Seller's initial offer to sell energy from a given generation resource on the PJM Interchange Energy Market, the Market Seller shall furnish to the Office of the Interconnection the information specified in the Offer Data for new generation resources.

(b) Market Sellers authorized and intending to request market-based start-up and no-load fees in their Offer Data shall submit a specification of such fees to the Office of the Interconnection for each generating unit as to which the Market Seller intends to request such fees. Any such specification shall be submitted on or before March 31 for the period April 1 through September 30, and on or before September 30 for the period October 1 through March 31, and shall remain in effect without change throughout each such period for which a specification was submitted. The Office of the Interconnection shall reject any request for start-up and no-load fees in a Market Seller's Offer Data that does not conform to the Market Seller's specification on file with the Office of the Interconnection.

1.5.8 Office of the Interconnection Responsibilities

(a) The Office of the Interconnection shall perform seasonal operating studies to assess the forecasted adequacy of generating reserves and of the transmission system, in accordance with the procedures specified in the PJM Manuals.

(b) The Office of the Interconnection shall maintain and update tables setting forth Operating Reserve objectives as specified in the PJM Manuals.

(c) The Office of the Interconnection shall receive and process requests for firm and non-firm transmission service in accordance with procedures specified in the PJM Control Area Open Access Transmission Tariff.

(d) The Office of the Interconnection shall maintain such data and information relating to generation and transmission facilities in the PJM Control Area as may be necessary or appropriate to conduct the scheduling and dispatch of the PJM Interchange Energy Market and PJM Control Area.

1.6 Scheduling. The following scheduling procedures and principles shall govern the commitment of resources to the PJM Interchange Energy Market over a period extending from one week to one day prior to the Operating Day that transactions are to take place. Scheduling encompasses the day-ahead and hourly scheduling process, through which the Office of the Interconnection determines, based on changing forecasts of conditions and actions by Market Participants and system constraints, a plan to serve the hourly energy and reserve requirements of the Internal Market Buyers and the purchase requests of the External Market Buyers in the least costly manner, subject to maintaining the reliability of the PJM Control Area. Scheduling shall be conducted as specified below, subject to the following condition. If the Office of the Interconnection's forecast for the next seven days projects a likelihood of Emergency conditions, the Office of the Interconnection may commit, for all or part of such seven day period, to the use of generation resources with notification or start-up times greater than one day as necessary in

order to alleviate or mitigate such Emergency, in accordance with the Market Sellers' offers for such units for such periods and the specifications in the PJM Manuals.

1.6.1 Day-Ahead Scheduling. The following actions shall occur not later than 12:00 noon on the day before the Operating Day for which transactions are being scheduled.

(a) Each Internal Market Buyer shall submit to the Office of the Interconnection forecasts of its customer loads for the next Operating Day as required by the PJM Manuals. If an Internal Market Buyer expects to curtail load at a specific Dispatch Rate, it should specify the Dispatch Rate and estimated load curtailment.

(b) An External Market Buyer shall submit to the Office of the Interconnection requests to purchase specified amounts of energy for each hour of the Operating Day during which it intends to purchase from the PJM Interchange Energy Market, along with Dispatch Rate levels above which it does not desire to purchase, in accordance with the specifications set forth in the PJM Manuals.

(c) Each Generating Market Buyer shall submit to the Office of the Interconnection: (i) hourly schedules for resource increments, including hydropower units, self-scheduled by the Market Buyer to meet its Equivalent Load; and (ii) the Dispatch Rate at which each such self-scheduled resource will disconnect or reduce output, or confirmation of the Market Buyer's intent not to reduce output.

(d) All Market Participants shall submit to the Office of the Interconnection schedules for any bilateral transactions involving use of generation or Transmission Facilities as specified below, and shall inform the Office of the Interconnection if the parties to the transaction are not willing to incur transmission congestion charges in order to complete any such scheduled bilateral transaction. Scheduling of bilateral transactions shall be conducted in accordance with the specifications in the PJM Manuals and the following requirements:

- i. Internal Market Buyers shall submit schedules for all bilateral purchases for delivery within the PJM Control Area, whether from generation resources inside or outside the PJM Control Area;
- ii. Market Sellers shall submit schedules for bilateral sales to entities outside the PJM Control Area from generation within the PJM Control Area; and
- iii. In addition to the foregoing schedules for bilateral transactions, Market Participants shall submit confirmations of each scheduled bilateral transaction from each other party to the transaction in addition to the party submitting the schedule, or the adjacent Control Area.

(e) Market Sellers wishing to sell on the PJM Interchange Energy Market shall submit offers for the supply of energy (including energy from hydropower units), Regulation, Operating Reserves and other services for the following Operating Day. Offers shall be submitted to the Office of the Interconnection in the form specified by the Office of the Interconnection and shall contain the information specified in the Office of the Interconnection's Offer Data specification, as applicable. Market Sellers owning or controlling the output of a Capacity Resource that has not been rendered unavailable by a Generation Planned Outage, a

Generator Maintenance Outage, or a Generation Forced Outage shall submit offers for the available capacity of such Capacity Resource, including any portion that is self-scheduled by the Generating Market Buyer claiming the resource as a Capacity Resource. The submission of offers for resource increments that are not Capacity Resources shall be optional, but any such offers must contain the information specified in the Office of the Interconnection's Offer Data specification, as applicable. Energy offered from generation resources that are not Capacity Resources shall not be supplied from resources that are included in or otherwise committed to supply the Operating Reserves of another Control Area. The foregoing offers:

- i. Shall specify the generation resource and energy for each hour in the offer period;
- ii. Shall specify the amounts and prices for the entire Operating Day for each resource component offered by the Market Seller to the Office of the Interconnection;
- iii. If based on energy from a specific generating unit, may specify start-up and no-load fees equal to the specification of such fees for such unit on file with the Office of the Interconnection;
- iv. Shall set forth any special conditions upon which the Market Seller proposes to supply a resource increment, including any curtailment rate specified in a bilateral contract for the output of the resource, or any cancellation fees;
- v. May include a schedule of offers for prices and operating data contingent on acceptance by the deadline specified in Section 1.6.8(b) of this Schedule, with a second schedule applicable if accepted after the foregoing deadline;
- vi. Shall constitute an offer to submit the resource increment to the Office of the Interconnection for scheduling and dispatch in accordance with the terms of the offer, which offer shall remain open through the Operating Day for which the offer is submitted;
- vii. Shall be final as to the price or prices at which the Market Seller proposes to supply energy or other services to the PJM Interchange Energy Market, such price or prices being guaranteed by the Market Seller for the period extending through the end of the following Operating Day;
- viii. Shall not exceed an energy offer price of \$1,000/megawatt-hour.

(f) A Market Seller that wishes to sell Regulation service shall submit an offer for Regulation that shall specify the MW of Regulation being offered and the Regulation Class from which such Regulation is being offered. The range of costs defining Regulation Classes, and the average cost for each Regulation Class, shall be determined periodically by the Office of the Interconnection on the basis of prior energy bid prices and appropriate fuel indices, in accordance with procedures specified in the PJM Manuals. Qualified Regulation capability must satisfy the verification tests specified in the PJM Manuals.

(g) Each Market Seller owning or controlling the output of a Capacity Resource shall submit a forecast of the availability of each such Capacity Resource for the next seven days. A Market Seller (i) may submit a non-binding forecast of the price at which it expects to offer a generation resource increment to the Office of the Interconnection over the next seven days, and (ii) shall submit a binding offer for energy, along with start-up and no-load fees, if any, for the next seven days or part thereof, for any generation resource with minimum notification or start-up requirement greater than 24 hours.

(h) Each offer by a Market Seller of a Capacity Resource shall remain in effect for subsequent Operating Days until superseded or canceled.

(i) The Office of the Interconnection shall post on the PJM Open Access Same-time Information System its estimate of the combined hourly load of the Market Buyers for the next four days, and peak load forecasts for an additional three days.

1.6.2 Pool-Scheduled Resources. Pool-scheduled resources shall be governed by the following principles and procedures.

(a) Pool-scheduled resources shall be selected by the Office of the Interconnection on the basis of the prices offered for energy and related services, start-up, no-load and cancellation fees, and the specified operating characteristics, offered by Market Sellers to the Office of the Interconnection by the 12:00 noon offer deadline.

(b) A resource that is scheduled by a Market Participant to support a bilateral sale, or that is self-scheduled by a Generating Market Buyer, shall not be selected by the Office of the Interconnection as a pool-scheduled resource except in an Emergency.

(c) Market Sellers offering energy from hydropower or other facilities with fuel or environmental limitations may submit data to the Office of the Interconnection that is sufficient to enable the Office of the Interconnection to determine the available operating hours of such facilities.

(d) The Market Seller of a resource selected as a pool-scheduled resource shall receive payments or credits for energy or related services, or for start-up and no-load fees, from the Office of the Interconnection on behalf of the Market Buyers in accordance with Schedule 7.01-2. Alternatively, the Market Seller shall receive any cancellation fee reflected in the Market Seller's offer in lieu of start-up and no-load fees, if any, if the Office of the Interconnection cancels its selection of the resource as a pool-scheduled resource and so notifies the Market Seller before the resource is synchronized.

(e) Market Participants shall make available their pool-scheduled resources to the Office of the Interconnection for coordinated operation to supply the needs of the PJM Control Area for Operating Reserves.

1.6.3 Self-scheduled Resources. Self-scheduled resources shall be governed by the following principles and procedures.

(a) Each Generating Market Buyer shall use all reasonable efforts, consistent with Good Utility Practice, not to self-schedule resources in excess of its Equivalent Load.

(b) The offered prices of resources that are self-scheduled, or otherwise not following the dispatch orders of the Office of the Interconnection, shall not be considered by the Office of the Interconnection in determining Unconstrained Market Clearing Prices, and such units shall not be paid Redispatch Cost.

(c) Market Participants shall make available their self-scheduled resources to the Office of the Interconnection for coordinated operation to supply the needs of the PJM Control Area for Operating Reserves.

1.6.4 Capacity Resources.

(a) A Capacity Resource selected as a pool-scheduled resource shall be made available for scheduling and dispatch at the direction of the Office of the Interconnection. A Capacity Resource that does not deliver energy as scheduled shall be deemed to have experienced a Generator Forced Outage to the extent of such energy not delivered.

(b) Energy from a Capacity Resource that has not been selected as a pool-scheduled resource may be sold on a bilateral basis by the Market Seller, or may be self-scheduled. A Capacity Resource that has not been selected as a pool-scheduled resource and that has been sold on a bilateral basis must be made available upon request to the Office of the Interconnection for scheduling and dispatch if the Office of the Interconnection declares a Maximum Generation Emergency. Any such resource so scheduled and dispatched shall receive the applicable Unconstrained Market Clearing Price or the Redispatch Cost, as applicable, for energy delivered.

(c) A Capacity Resource that has been self-scheduled shall not receive payments or credits for start-up or no-load fees.

1.6.5 External Resources.

(a) External Resources may submit offers to the PJM Interchange Energy Market, in accordance with the day-ahead scheduling process specified above. An External Resource selected as a pool-scheduled resource shall be made available for scheduling and dispatch at the direction of the Office of the Interconnection, and except as specified below shall be compensated on the same basis as other pool-scheduled resources. External Resources that are not capable of dynamic dispatch shall, if selected by the Office of the Interconnection on the basis of the Market Seller's Offer Data, be block loaded on an hourly scheduled basis. Market Sellers shall offer External Resources to the PJM Interchange Energy Market on either a resource-specific or an aggregated resource basis.

(b) Offers for External Resources from an aggregation of two or more generating units shall so indicate, and shall specify, in accordance with the Offer Data requirements specified by the Office of the Interconnection: (i) energy prices; (ii) hours of energy availability; (iii) a minimum dispatch level; (iv) a maximum dispatch level; and (v) unless such information has previously been made available to the Office of the Interconnection, sufficient information, as specified in the PJM Manuals, to enable the Office of the Interconnection to model the flow into the PJM Control Area of any energy from the External Resources scheduled in accordance with the Offer Data. If a Market Seller submits more than

one offer on an aggregated resource basis, the withdrawal of any such offer shall be deemed a withdrawal of all higher priced offers for the same period. A Market Seller offering energy from External Resources on an aggregated basis and that does not deliver energy as scheduled by the Office of the Interconnection shall be assessed a non-delivery charge as specified below.

(c) Offers for External Resources on a resource-specific basis shall specify the resource being offered, along with the information specified in the Offer Data as applicable. A Market Seller offering an External Resource on a resource-specific basis that does not deliver energy as scheduled by the Office of the Interconnection shall be assessed a non-delivery charge as specified below, unless the resource being offered has suffered a Generator Forced Outage. The burden shall be on the Market Seller to demonstrate to the reasonable satisfaction of the Office of the Interconnection that the resource being offered has experienced a Generator Forced Outage.

(d) Subject to the conditions specified in this paragraph, the non-delivery charge for External Resources that do not deliver energy as scheduled shall be calculated hourly as follows: Pro-rated start-up plus hourly no-load fees specified in the Offer Data + [offered minimum dispatch level x (Unconstrained Market Clearing Price - offered energy price) x 110%]. For purposes of the foregoing calculation: (i) if the Unconstrained Market Clearing Price less the offered energy price is less than zero, this difference shall be set to zero; and (ii) start-up and no-load fees shall be subject to the requirements of Section 1.5.7(b). Payments or credits for non-delivery charges shall be used by the Office of the Interconnection to reduce or offset PJM Control Area costs for Operating Reserves.

1.6.6 External Market Buyers.

(a) Deliveries to an External Market Buyer not subject to dynamic dispatch by the Office of the Interconnection shall be delivered on a block loaded basis to the load bus or busses at the border of the PJM Control Area at which the energy is delivered to or for the External Market Buyer. External Market Buyers shall be charged the Unconstrained Market Clearing Price for energy, and an allocated share of Redispatch Costs as specified in the Tariff.

(b) An External Market Buyer's hourly schedules for energy purchased from the PJM Interchange Energy Market shall conform to the ramping and other applicable requirements of the interconnection agreement between the PJM Control Area and the Control Area to which, whether as an intermediate or final point of delivery, the purchased energy will initially be delivered.

(c) The Office of the Interconnection shall curtail deliveries to an External Market Buyer if necessary to maintain appropriate reserve levels for the PJM Control Area as defined in the PJM Manuals, or to avoid shedding load in the PJM Control Area.

(d) An External Market Buyer that does not take delivery of the amounts of energy specified in its request to purchase shall be assessed a non-delivery charge. The non-delivery charge shall be calculated as the Unconstrained Market Clearing Price times the amount of energy not taken each hour. The non-delivery charge shall not apply to deliveries curtailed in accordance with Section 1.6.6(c) of this Schedule, or for periods when the Dispatch

Rate exceeds the maximum value specified by the External Market Buyer in accordance with Section 1.6.1(b). Payments or credits for non-delivery charges shall be used by the Office of the Interconnection to reduce or offset PJM Control Area costs for Operating Reserves.

1.6.7 Bilateral Transactions. Bilateral transactions as to which the parties have notified the Office of the Interconnection by 12:00 p.m. of the day before the Operating Day that they are not willing to incur transmission congestion charges shall not be implemented for periods in which such transactions would contribute to transmission congestion. Such transactions shall be curtailed by the Office of the Interconnection as necessary to reduce or alleviate transmission congestion.

1.6.8 Office of the Interconnection Responsibilities.

(a) The Office of the Interconnection shall use its best efforts to determine the least-cost means of satisfying the projected hourly energy, Operating Reserves, and other ancillary services requirements of the Market Buyers, including the reliability requirements of the PJM Control Area. In making this determination, the Office of the Interconnection shall take into account: (i) the Office of the Interconnection's forecasts of PJM Interchange Energy Market and PJM Control Area energy requirements, giving due consideration to the energy requirement forecasts and purchase requests submitted by Market Buyers; (ii) the offers submitted by Market Sellers; (iii) the availability of limited energy resources; (iv) the capacity, location, and other relevant characteristics of self-scheduled resources; (v) the objectives of the PJM Control Area for Operating Reserves, as specified in the PJM Manuals; (vi) the requirements of the PJM Control Area for Regulation and other ancillary services, as specified in the PJM Manuals; (vii) the benefits of avoiding or minimizing transmission constraint control operations, as specified in the PJM Manuals; and (viii) such other factors as the Office of the Interconnection reasonably concludes are relevant to the foregoing determination. The Office of the Interconnection shall develop a schedule of generation resources based on the foregoing determination. The Office of the Interconnection shall report the planned schedule for a hydropower resource to the operator of that resource as necessary for plant safety and security, and legal limitations on pond elevations.

(b) Not later than 4:00 p.m. of the day before each Operating Day, or such earlier deadline as may be specified by the Office of the Interconnection in the PJM Manuals, the Office of the Interconnection shall: (i) post on the PJM Open Access Same-time Information System its forecast of the location and duration of any expected transmission congestion; and (ii) inform each Market Seller whether its offer or offers have been accepted.

(c) The Office of the Interconnection shall revise its schedule of generation resources to reflect updated projections of load, conditions affecting electric system operations in the PJM Control Area, the availability of and constraints on limited energy and other resources, transmission constraints, and other relevant factors. The Office of the Interconnection shall post on the PJM Open Access Same-time Information System at times specified in the PJM Manuals a revised forecast of the location and duration of any expected transmission congestion.

1.6.9 Hourly Scheduling

(a) Subject to the right of the Office of the Interconnection to schedule and dispatch pool-scheduled resources and to direct that schedules be changed in an Emergency, and provided that the Office of the Interconnection is notified not later than 60 minutes prior to the hour in which the adjustment is to take effect, a Market Participant may adjust the schedule of a resource under its dispatch control on an hour-to-hour basis beginning at 10:00 p.m. of the day before the Operating Day, as follows:

- i. A Generating Market Buyer may self-schedule any of its resource increments, including hydropower resources, not previously designated as self-scheduled and not selected as a pool-scheduled resource;
- ii. A Market Participant may request the scheduling of a non-firm bilateral transaction; or
- iii. A Generating Market Buyer may remove from service a resource increment, including a hydropower resource, that it had previously designated as self-scheduled, provided that the Office of the Interconnection shall have the option to schedule energy from such resource increment at the price offered in the scheduling process, with no obligation to pay any start-up fee.

(b) An External Market Buyer may refuse delivery of some or all of the energy it requested to purchase by notifying the Office of the Interconnection of the adjustment in deliveries not later than 60 minutes prior to the hour in which the adjustment is to take effect. Any such refusal of delivery shall be subject to non-delivery charges in accordance with Section 1.6.6(d) of this Schedule.

1.7 Dispatch. The following procedures and principles shall govern the dispatch of the resources available to the Office of the Interconnection.

1.7.1 Resource Output. The Office of the Interconnection shall have the authority to direct any Market Seller to adjust the output of any pool-scheduled resource increment within the operating characteristics specified in the Market Seller's offer. The Office of the Interconnection may cancel its selection of, or otherwise release, pool-scheduled resources, subject to an obligation to pay any applicable start-up, no-load or cancellation fees. The Office of the Interconnection shall adjust the output of pool-scheduled resource increments as necessary: (a) to maintain reliability, and subject to that constraint, to minimize the cost of supplying the energy, reserves, and other services required by the Market Buyers and the operation of the PJM Control Area; (b) to balance load and generation, maintain scheduled tie flows, and provide frequency support within the PJM Control Area; and (c) to minimize unscheduled interchange not frequency related between the PJM Control Area and other Control Areas.

1.7.2 First Contingency Basis. In carrying out the foregoing objectives, the Office of the Interconnection shall conduct the operation of the PJM Control Area in accordance with the PJM Manuals, and shall: (i) operate the PJM Control Area on a First Contingency

Basis; (ii) utilize available generating reserves and obtain required replacements; and (iii) monitor the availability of adequate reserves.

1.7.3 Pool-dispatched Resources

(a) The Office of the Interconnection shall implement the dispatch of energy from pool-scheduled resources with limited energy by direct request. In implementing mandatory or economic use of limited energy resources, the Office of the Interconnection shall use its best efforts to select the most economic hours of operation for limited energy resources, in order to make optimal use of such resources consistent with the dynamic load-following requirements of the PJM Control Area and the availability of other resources to the Office of the Interconnection.

(b) The Office of the Interconnection shall implement the dispatch of energy from other pool-dispatched resource increments, including generation increments from Capacity Resources the remaining increments of which are self-scheduled, by sending appropriate signals and instructions to the entity controlling such resources, in accordance with the PJM Manuals. Each Market Seller shall ensure that the entity controlling a pool-dispatched resource offered or made available by that Market Seller complies with the energy dispatch signals and instructions transmitted by the Office of the Interconnection.

1.7.4 Regulation

(a) A Market Buyer may satisfy its Regulation obligation from its own resources capable of performing Regulation service, by contractual arrangements with other Market Participants able to provide Regulation service, or by purchases from the PJM Interchange Energy Market.

(b) The Office of the Interconnection shall obtain Regulation service from the least-cost alternatives available from either pool-scheduled or self-scheduled resources as needed to meet PJM Control Area requirements not otherwise satisfied by the Market Buyers.

(c) The Office of the Interconnection shall dispatch resources for Regulation by sending Regulation signals and instructions to resources from which Regulation service has been offered by Market Sellers, in accordance with the PJM Manuals. Market Sellers shall comply with Regulation dispatch signals and instructions transmitted by the Office of the Interconnection and, in the event of conflict, Regulation dispatch signals and instructions shall take precedence over energy dispatch signals and instructions. Market Sellers shall exert all reasonable efforts to operate, or ensure the operation of, their resources supplying load in the PJM Control Area as close to desired output levels as practical, consistent with Good Utility Practice.

1.7.5 PJM Open Access Same-time Information System. The Office of the Interconnection shall update the information posted on the PJM Open Access Same-time Information System to reflect its dispatch of generation resources.

APPENDIX A TO SCHEDULE 7.01-1
CALCULATION OF UNCONSTRAINED MARKET CLEARING PRICES

- (a) The Office of the Interconnection shall determine for each hour and announce the Unconstrained Market Clearing Price, which shall be a rate in Dollars per megawatthour equal to the cost or bid price in Dollars per megawatthour of the highest-priced increment of energy that was requested to operate by the Office of the Interconnection during that hour if no constraints were experienced on the transmission system of the Interconnection or the highest-priced increment of energy that would have been requested to operate if constraints actually experienced on the transmission system had been disregarded.
- (b) The total amounts of energy supplied in each hour shall be checked against and reconciled with the total amounts of energy received in that hour.
- (c) The accounting for energy interchange among the Parties Hereto shall be determined by the Office of the Interconnection for each hour as follows:
 - (1) Each Party Hereto receiving energy from the Interconnection shall be debited for such energy received at the Unconstrained Market Clearing Price.
 - (2) Each Party Hereto supplying energy to the Interconnection shall be credited for such energy supplied at the Unconstrained Market Clearing Price.
- (d) If any Party Hereto is directed by the Office of the Interconnection to operate additional generating resources for control of constraints on the transmission system of the Interconnection, the cost or bid price of which exceeds the Unconstrained Market Clearing Price, then the difference between the cost or bid price of such energy supplied and the Unconstrained Market Clearing Price, multiplied by the amount of additional generation so operated, shall constitute a redispatch cost ("Redispatch Cost") which shall be credited to the affected Party Hereto and recovered pursuant to the Tariff.

SCHEDULE 7.01-2 TO ATTACHMENT K
ACCOUNTING AND BILLING

2.1 Introduction. This schedule sets forth the accounting and billing principles and procedures for the purchase and sale of services on the PJM Interchange Energy Market and for the operation of the PJM Control Area.

2.2 Market Buyers

2.2.1 Spot Market Energy. Spot Market Energy shall be paid for at the Unconstrained Market Clearing Price determined as specified in Appendix A to Schedule 7.01-1 of this Attachment.

2.2.2 Regulation.

(a) Each Internal Market Buyer shall have an hourly Regulation objective equal to its *pro rata* share of the PJM Control Area Regulation requirements for the hour, based on the Market Buyer's total load in the PJM Control Area for the hour.

(b) A Generating Market Buyer supplying Regulation at the direction of the Office of the Interconnection in excess of its hourly Regulation obligation shall be credited for each increment of such Regulation at the price in that hour for the Regulation Class from which the Regulation was supplied, as determined by the Office of the Interconnection in accordance with procedures specified in the PJM Manuals. An Internal Market Buyer that does not meet its hourly Regulation obligation shall be charged for Regulation dispatched by the Office of the Interconnection to meet such obligation at the average price paid by the Office of the Interconnection for Regulation.

2.2.3 Operating Reserves

(a) A Market Seller's pool-scheduled resources shall be credited as specified below based on the prices offered for the operation of such resource, provided that the resource was available for the entire time specified in the Offer Data for such resource.

(b) At the end of each Operating Day, the following determination shall be made for each synchronized pool-scheduled resource of each Market Seller: the total offered price for start-up and no-load fees and Spot Market Energy plus Redispatch Cost if any, determined on the basis of the resource's actual output or available and requested time and type of operation, shall be compared to the total value of that resource's Spot Market Energy plus Redispatch Cost, if any. If the total offered price exceeds the total value, the difference shall be credited to the Market Seller. Market Sellers shall also be credited on the basis of their offered prices for synchronized condensing for any hydropower or combustion turbine units operated as synchronous condensers at the request of Office of the Interconnection but producing no energy.

(c) The sum of the foregoing credits, less any amounts received in accordance with Sections 1.6.2(d), 1.6.5(d) and 1.6.6(d) of Schedule 7.01-1, shall be the cost of Operating Reserves for the PJM Control Area for each Operating Day.

(d) The cost of Operating Reserves for each Operating Day shall be allocated and charged to each Market Buyer in proportion to its total load during that Operating Day in the PJM Control Area.

2.2.4 Transmission Congestion. Each Market Buyer shall be charged or credited for Redispatch Costs as specified in the Tariff.

2.2.5 Transmission Losses

(a) Whenever the Office of the Interconnection has in place appropriate computer hardware, software, and other necessary resources to account for marginal losses in the dispatch of energy, loss accounting shall be determined on that basis, and the provisions of this Section shall be revised accordingly. Until such time, the following accounting provisions for losses shall apply.

(b) Each Internal Market Buyer shall be credited in an amount equal to its *pro rata* share of the hourly total amounts collected from Transmission Customers either as charges for transmission losses in the PJM Control Area as specified in Section 2.4.2 or for transmission losses supplied in kind in accordance with Section 2.4.2. This credit shall be determined by the ratio of the Internal Market Buyer's total hourly load, divided by the total hourly load in the PJM Control Area.

(c) PJM Control Area 500 kV losses shall be allocated to each Internal Market Buyer in proportion to its hourly load in the PJM Control Area.

2.2.6 Emergency Energy

(a) Internal Market Buyers shall be allocated a proportionate share of the Emergency energy and the cost of Emergency energy purchased by the Office of the Interconnection. Such allocated share shall be determined in proportion to the amount of net PJM Interchange Imports by each Internal Market Buyer during the hour of each such energy purchase.

(b) Net revenues in excess of Unconstrained Market Clearing Prices attributable to sales of energy in connection with Emergencies to other Control Areas shall be credited to Internal Market Buyers in proportion to the amount of net PJM Interchange Imports by each Internal Market Buyer during each hour of such energy sales.

(c) The costs, revenues, and energy associated with hourly energy purchased from another Control Area in connection with a Minimum Generation Emergency in such other Control Area, shall be allocated to each Internal Market Buyer in proportion to its load in the PJM Control Area during the hour of such purchases.

2.2.7 Billing. The Office of the Interconnection shall prepare a billing statement each billing cycle for each Market Buyer in accordance with the charges and credits specified in Sections 2.2.1 through 2.2.6 of this schedule, and showing the net amount to be paid or received by the Market Buyer. Billing statements shall provide sufficient detail, as specified in the PJM Manuals, to allow verification of the billing amounts and completion of the Market Buyer's internal accounting.

2.3 Market Sellers. Except as provided in the following sentence, the accounting and billing principles and procedures applicable to Generating Market Buyers functioning as Market Sellers shall be as set forth in Section 2.2. This Section sets forth the accounting and billing principles and procedures applicable to all other Market Sellers, and to Generating Market Buyers functioning as Market Sellers with respect to any matters not specified in Section 2.2.

2.3.1 Spot Market Energy. Spot Market Energy shall be paid for at the Unconstrained Market Clearing Price determined as specified in Appendix A to Schedule 7.01-1 of this Attachment.

2.3.2 Regulation. Each Market Seller that is also an Internal Market Buyer shall have an hourly Regulation objective as specified in Section 2.2.2(a), and shall be credited or charged in connection therewith as specified in Section 2.2.2(b). All other Market Sellers supplying Regulation at the direction of the Office of the Interconnection shall be credited for each increment of such Regulation at the price in that hour for the Regulation Class from which the Regulation was supplied, as determined by the Office of the Interconnection in accordance with procedures specified in the PJM Manuals.

2.3.3 Operating Reserves. A Market Seller shall be credited for its pool-scheduled resources based on the prices offered for the operation of such resource, provided that the resource was available for the entire time specified in the Offer Data for such resource, in accordance with the procedures set forth in Section 2.2.3(b).

2.3.4 Emergency Energy. The costs, revenues, and energy associated with hourly energy sales to other Control Areas in connection with a Minimum Generation Emergency in the PJM Control Area shall be allocated to Market Sellers in proportion to their sales to the PJM Interchange Energy Market from generation resources within the metered boundaries of the PJM Control Area in each hour in which such energy was sold to other Control Areas.

2.3.5 - Billing. The Office of the Interconnection shall prepare a billing statement each billing cycle for each Market Seller in accordance with the charges and credits specified in Sections 2.3.1 through 2.3.4 of this schedule, and showing the net amount to be paid or received by the Market Seller. Billing statements shall provide sufficient detail, as specified in the PJM Manuals, to allow verification of the billing amounts and completion of the Market Seller's internal accounting.

2.4 Transmission Customers

2.4.1 Transmission Congestion. Each Transmission Customer shall be charged or credited for Redispatch Costs as specified in the Tariff.

2.4.2 Transmission Losses

(a) Whenever the Office of the Interconnection has in place appropriate computer hardware, software, and other necessary resources to account for marginal losses in the dispatch of energy, loss accounting shall be determined on that basis, and the provisions of this Section shall be revised accordingly. Until such time, the following accounting provisions for losses shall apply.

(b) Transmission Customers other than entities that are also Market Buyers shall be charged for transmission losses in an amount equal to the product of (i) the Transmission Customer's megawatt-hours of deliveries using Point-to-Point Transmission Service, times (ii) the appropriate loss factor for deliveries using Point-to-Point Transmission Service, times (iii) the Unconstrained Market Clearing Price. The foregoing average hourly loss factor shall be: (i) determined by the Office of the Interconnection from time to time as conditions affecting losses shall warrant; (ii) calculated separately for on-peak and off-peak hours on the basis of the average ratio of losses to load served in each such period; and (iii) determined in accordance with the provisions in the PJM Manuals on "Calculation of Losses for Transmission Services."

(c) A Transmission Customer may elect to pay for losses in kind, rounded off to the nearest whole megawatt, rather than as specified above if its total deliveries in an hour using Point-to-Point Transmission Service are greater than 200 megawatts. If it so elects, the Transmission Customer's specified source for the energy to be delivered using Point-to-Point Transmission Service may be scheduled to supply to the PJM Control Area boundary an amount of energy equal to the delivery schedule plus the amount of losses determined by applying the appropriate hourly loss factor as specified above to the delivered amount.

2.4.3 Billing. The Office of the Interconnection shall prepare a billing statement each billing cycle for each Transmission Customer in accordance with the charges and credits specified in Sections 2.4.1 through 2.4.2 of this schedule, and showing the net amount to be paid or received by the Transmission Customer. Billing statements shall provide sufficient detail, as specified in the PJM Manuals, to allow verification of the billing amounts and completion of the Transmission Customer's internal accounting.

2.5 Other Control Areas

2.5.1 Energy Sales. To the extent appropriate in accordance with Good Utility Practice, the Office of the Interconnection may sell energy to an interconnected Control Area as necessary to alleviate or end an Emergency in that Control Area. Such sales shall be made (i) only to Control Areas that have undertaken a commitment pursuant to a written agreement with the Office of the Interconnection to sell energy on a comparable basis to the PJM Control Area, and (ii) only to the extent consistent with the maintenance of reliability in the PJM Control Area. The Office of the Interconnection may decline to make such sales to a Control Area that the Office of the Interconnection determines does not have in place and implement Emergency procedures that are comparable to those followed in the PJM Control Area. If the Office of the Interconnection sells energy to an interconnected Control Area as necessary to alleviate or end an Emergency in that Control Area, such energy shall be sold at 150% of the higher of the Unconstrained Market Clearing Price or the price paid for the energy dispatched to supply the sale.

2.5.2 Billing. The Office of the Interconnection shall prepare a billing statement each billing cycle for each Control Area to which Emergency energy was sold, and showing the net amount to be paid by such Control Area. Billing statements shall provide sufficient detail, as specified in the PJM Manuals, to allow verification of the billing amounts.

2.6 Metering Reconciliation.

2.6.1 Meter Correction Billing. Metering errors and corrections will be reconciled at the end of each month by a meter correction charge or credit. The monthly meter correction charge or credit shall be determined by the product of the positive or negative deviation in energy amounts, times the weighted average Unconstrained Market Clearing Price.

2.6.2 Meter Corrections Between Market Participants. If a Market Participant or the Office of the Interconnection discovers a meter error affecting an interchange of energy with another Market Participant and makes the error known to such other Market Participant prior to the completion by the Office of the Interconnection of the accounting for the interchange, and if both Market Participants are willing to adjust hourly load records to compensate for the error and such adjustment does not affect other parties, an adjustment in load records may be made by the Market Participants in order to correct for the meter error, provided corrected information is furnished to the Office of the Interconnection in accordance with the Office of the Interconnection's accounting deadlines. No such adjustment may be made if the accounting for the Operating Day in which the interchange occurred has been completed by the Office of the Interconnection.

2.6.3 500 kV Meter Errors. Billing cycle accounting for 500 kV transmission losses shall be adjusted to account for errors in meters on 500 kV Transmission Facilities.

2.6.4 Meter Corrections Between Control Areas. An error between accounted for and metered interchange between a Party in the PJM Control Area and an entity in another Control Area shall be corrected by adjusting the hourly meter readings. If this is not practical, the error shall be accounted for by a correction at the end of the billing cycle. The Market Participant with ties to such other Control Area experiencing the error shall account for the full amount of the discrepancy and an appropriate debit or credit shall be applied equally among all Market Buyers. The Office of the Interconnection will adjust the actual interchange between the PJM Control Area and the other Control Area to maintain a proper record of inadvertent energy flow. Meter corrections on the 500 kV system between the PJM Control Area and other Control Areas shall be accounted for through the internal 500 kV system meter error allocation at the end of the billing cycle.

2.6.5 Meter Correction Data. Meter error data shall be submitted to the Office of the Interconnection not later than noon on the second working day of the Office of the Interconnection after the end of the billing cycle applicable to the meter correction.

2.6.6 Correction Limits. A Market Participant may not assert a claim for an adjustment in billing as a result of a meter error for any error discovered more than two years after the date on which the metering occurred. Any claim for an adjustment in billing as a result of a meter error shall be limited to bills for transactions occurring in the most recent annual accounting period of the billing Market Participant in which the meter error occurred, and the prior annual accounting period.

APPENDIX A TO SCHEDULE 7.01-2
RATE TABLE

A.1 Offered Price Rates. Spot Market Energy, Regulation and Operating Reserve, are based on offers to the Office of the Interconnection specified in the PJM Interconnection Agreement.

A.2 Transmission Losses. Average loss factors shall be as specified in the PJM Control Area Open Access Tariff.

A.3 Emergency Energy Purchases. The pricing for Emergency energy purchases will be determined by the Office of the Interconnection and the adjacent Control Area, in accordance with an agreement between the Office of the Interconnection and such adjacent Control Area that complies with the PJM Interconnection Agreement.

APPENDIX B TO SCHEDULE 7.01-2

[Not used]

ATTACHMENT L

List of Regional Transmission Owners

Atlantic City Electric Company
Baltimore Gas and Electric Company
Delmarva Power & Light Company
Jersey Central Power & Light Company
Metropolitan Edison Company
Pennsylvania Electric Company
PECO Energy Company
Pennsylvania Power & Light Company
Potomac Electric Power Company
Public Service Electric and Gas Company
UGI Corporation