

Appendix D: Capacity Analysis

1993-94

OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS

UNADJUSTED

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	/
1929 FED FIRM SURPLUS/DEFICIT	6224	3281	3448	3131	3392	4448	1896	1329	1865	1778	2
1930 FED FIRM SURPLUS/DEFICIT	3102	3136	2550	1799	2954	3476	1613	107	1517	2529	2
1931 FED FIRM SURPLUS/DEFICIT	5246	3951	2517	1943	2857	3984	1536	-162	840	4300	1
1932 FED FIRM SURPLUS/DEFICIT	2285	2906	2449	1444	1705	2956	4576	5271	5404	5062	3
1933 FED FIRM SURPLUS/DEFICIT	4762	5475	4071	3168	3129	4741	5834	5436	5648	5000	3
1934 FED FIRM SURPLUS/DEFICIT	7890	6979	3915	3523	6227	6320	5824	5475	5737	5329	3
1935 FED FIRM SURPLUS/DEFICIT	3686	3562	4107	2851	3005	4435	5786	6059	4314	4194	3
1936 FED FIRM SURPLUS/DEFICIT	6687	3344	4093	3294	3933	4804	5431	3814	5405	5347	3
1937 FED FIRM SURPLUS/DEFICIT	3394	3207	3600	3408	4051	4439	1387	2055	1784	2852	2
1938 FED FIRM SURPLUS/DEFICIT	2368	2573	2505	1504	520	3148	5817	5408	5768	5171	3
1939 FED FIRM SURPLUS/DEFICIT	2893	2790	4042	3471	3739	4286	4106	410	5986	6172	4
1940 FED FIRM SURPLUS/DEFICIT	4385	3368	3926	3595	4131	4515	4599	912	6165	6985	4
1941 FED FIRM SURPLUS/DEFICIT	4014	3361	2614	2063	3100	3970	2380	2456	1882	4983	3
1942 FED FIRM SURPLUS/DEFICIT	4933	4847	2493	1774	3322	6271	5818	6072	3982	5942	3
1943 FED FIRM SURPLUS/DEFICIT	5846	3913	4113	3442	3429	4522	5841	5487	5756	5339	3
1944 FED FIRM SURPLUS/DEFICIT	6190	3059	3689	3205	3846	4437	1556	841	634	3065	3
1945 FED FIRM SURPLUS/DEFICIT	2651	2487	2558	1556	1950	3174	2692	1182	2093	4011	2
1946 FED FIRM SURPLUS/DEFICIT	2383	2426	2562	1567	2081	2849	5860	5486	5785	5057	3
1947 FED FIRM SURPLUS/DEFICIT	6020	3711	4052	3327	3278	6239	5868	5518	5848	5275	3
1948 FED FIRM SURPLUS/DEFICIT	4683	2750	3831	5583	5027	6053	5861	5485	5690	5215	3
1949 FED FIRM SURPLUS/DEFICIT	7588	7040	4100	3223	3668	4726	5861	5683	6018	5611	3
1950 FED FIRM SURPLUS/DEFICIT	2385	2425	2549	1561	1735	4575	5861	5454	5692	5242	3
1951 FED FIRM SURPLUS/DEFICIT	7770	6307	3816	4289	5663	6369	5869	5489	5758	5301	3
1952 FED FIRM SURPLUS/DEFICIT	7852	4337	3418	5133	3339	5939	5856	5611	5938	5527	3
1953 FED FIRM SURPLUS/DEFICIT	5301	2425	3735	3242	4008	4715	5868	5538	4984	4739	3
1954 FED FIRM SURPLUS/DEFICIT	5705	4843	3742	3306	3229	4539	5865	5468	5673	5197	3

1955 FED FIRM SURPLUS/DEFICIT	7981	8429	6097	3215	3868	5561	5856	5890	5174	5796	2278
1956 FED FIRM SURPLUS/DEFICIT	6814	3040	3552	2125	4518	6368	5866	5482	5685	5197	3139
1957 FED FIRM SURPLUS/DEFICIT	6459	5161	2555	1891	2562	5961	5862	5643	5976	5564	3643
1958 FED FIRM SURPLUS/DEFICIT	2619	2426	3642	3271	3631	4361	5861	5650	6035	5341	3394
1959 FED FIRM SURPLUS/DEFICIT	2911	3068	3666	3114	3164	5613	5863	5474	5670	5227	3339
1960 FED FIRM SURPLUS/DEFICIT	6568	4947	7272	7414	6505	6212	5862	5558	5913	5547	3325
1961 FED FIRM SURPLUS/DEFICIT	5822	2475	3838	3580	2960	4497	5838	5463	5726	5307	3403
1962 FED FIRM SURPLUS/DEFICIT	2985	3950	3809	3237	3541	4105	5824	5861	6281	5991	3750
1963 FED FIRM SURPLUS/DEFICIT	5472	4180	3673	3499	2977	6151	5866	6041	5711	5928	2508
1964 FED FIRM SURPLUS/DEFICIT	5123	4008	4145	3181	3244	4381	5863	5521	5800	5348	2606
1965 FED FIRM SURPLUS/DEFICIT	6876	4694	3685	3609	3881	6369	5868	5537	5804	5326	3418
1966 FED FIRM SURPLUS/DEFICIT	7669	6925	3964	3391	3869	5165	5859	6123	6065	5919	3411
1967 FED FIRM SURPLUS/DEFICIT	5956	3135	3767	3140	3605	4122	5856	5465	5726	5254	2038
1968 FED FIRM SURPLUS/DEFICIT	7435	4823	3929	2736	3237	4821	5867	5745	6315	5009	2195
1969 FED FIRM SURPLUS/DEFICIT	3077	5321	5541	4934	5312	6110	5856	5426	5721	5319	3459
1970 FED FIRM SURPLUS/DEFICIT	3237	2413	2560	2617	3102	4182	5842	6303	6775	6151	2701
1971 FED FIRM SURPLUS/DEFICIT	2385	2426	2660	2321	3126	4451	5855	5366	5634	5025	3197
1972 FED FIRM SURPLUS/DEFICIT	7999	5052	2573	2257	2635	5591	5863	5390	5728	5383	3146
1973 FED FIRM SURPLUS/DEFICIT	7987	7333	2571	2838	3398	5448	5538	4417	2093	1302	1383
1974 FED FIRM SURPLUS/DEFICIT	2384	2423	2565	1564	1291	6223	5856	5728	5770	5171	3050
1975 FED FIRM SURPLUS/DEFICIT	8003	6483	2798	2780	3348	3745	5859	5552	5924	4205	3307
1976 FED FIRM SURPLUS/DEFICIT	4067	5098	2573	3304	5041	6360	5864	5421	5693	5275	3361
1977 FED FIRM SURPLUS/DEFICIT	7984	8524	7031	3252	3644	4753	2664	707	1379	2936	3246
1978 FED FIRM SURPLUS/DEFICIT	2517	2619	2481	1475	2155	3987	5782	5323	5740	5188	3301

*Less cold weather adjustment

*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2800
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*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
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*Add firm capacity to meet Fed firm energy loads at C-E ratio of .77	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
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1993-94

OPERATING YEAR

RUN

DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS

ADJUSTED

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30
1929 FED FIRM SURPLUS/DEFICIT	6432	3489	3356	4389	3300	3756	954	537	1573	-314	1283
1930 FED FIRM SURPLUS/DEFICIT	3310	3344	2458	3057	2862	2784	671	-685	1225	437	1185
1931 FED FIRM SURPLUS/DEFICIT	5454	4159	2425	3201	2765	3292	594	-954	548	2208	411
1932 FED FIRM SURPLUS/DEFICIT	2493	3114	2357	2702	1613	2264	3634	4479	5112	2970	1666
1933 FED FIRM SURPLUS/DEFICIT	4970	5683	3979	4426	3037	4049	4892	4644	5356	2908	1801
1934 FED FIRM SURPLUS/DEFICIT	8098	7187	3823	4781	6135	5628	4882	4683	5445	3237	2000
1935 FED FIRM SURPLUS/DEFICIT	3894	3770	4015	4109	2913	3743	4844	5267	4022	2102	2060
1936 FED FIRM SURPLUS/DEFICIT	6895	3552	4001	4552	3841	4112	4489	3022	5113	3255	2157
1937 FED FIRM SURPLUS/DEFICIT	3602	3415	3508	4666	3959	3747	445	1263	1492	760	1453
1938 FED FIRM SURPLUS/DEFICIT	2576	2781	2413	2762	428	2456	4875	4616	5476	3079	1724
1939 FED FIRM SURPLUS/DEFICIT	3101	2998	3950	4729	3647	3594	3164	-382	5694	4080	2673
1940 FED FIRM SURPLUS/DEFICIT	4593	3576	3834	4853	4039	3823	3657	120	5873	4893	3450
1941 FED FIRM SURPLUS/DEFICIT	4222	3569	2522	3321	3008	3278	1438	1664	1590	2891	2093

1942 FED FIRM SURPLUS/DEFICIT	5141	5055	2401	3032	3230	5579	4876	5280	3690	3850	2
1943 FED FIRM SURPLUS/DEFICIT	6054	4121	4021	4700	3337	3830	4899	4695	5464	3247	1
1944 FED FIRM SURPLUS/DEFICIT	6398	3267	3597	4463	3754	3745	614	49	342	973	1
1945 FED FIRM SURPLUS/DEFICIT	2859	2695	2466	2814	1858	2482	1750	390	1801	1919	
1946 FED FIRM SURPLUS/DEFICIT	2591	2634	2470	2825	1989	2157	4918	4694	5493	2965	1
1947 FED FIRM SURPLUS/DEFICIT	6228	3919	3960	4585	3186	5547	4926	4726	5556	3183	2
1948 FED FIRM SURPLUS/DEFICIT	4891	2958	3739	6841	4935	5361	4919	4693	5398	3123	1
1949 FED FIRM SURPLUS/DEFICIT	7796	7248	4008	4481	3576	4034	4919	4891	5726	3519	2
1950 FED FIRM SURPLUS/DEFICIT	2593	2633	2457	2819	1643	3883	4919	4662	5400	3150	1
1951 FED FIRM SURPLUS/DEFICIT	7978	6515	3724	5547	5571	5677	4927	4697	5466	3209	1
1952 FED FIRM SURPLUS/DEFICIT	8060	4545	3326	6391	3247	5247	4914	4819	5646	3435	2
1953 FED FIRM SURPLUS/DEFICIT	5509	2633	3643	4500	3916	4023	4926	4746	4692	2647	1
1954 FED FIRM SURPLUS/DEFICIT	5913	5051	3650	4564	3137	3847	4923	4676	5381	3105	1
1955 FED FIRM SURPLUS/DEFICIT	8189	8637	6005	4473	3776	4869	4914	5098	4882	3704	1
1956 FED FIRM SURPLUS/DEFICIT	7022	3248	3460	3383	4426	5676	4924	4690	5393	3105	1
1957 FED FIRM SURPLUS/DEFICIT	6667	5369	2463	3149	2470	5269	4920	4851	5684	3472	2
1958 FED FIRM SURPLUS/DEFICIT	2827	2634	3550	4529	3539	3669	4919	4858	5743	3249	1
1959 FED FIRM SURPLUS/DEFICIT	3119	3276	3574	4372	3072	4921	4921	4682	5378	3135	1
1960 FED FIRM SURPLUS/DEFICIT	6776	5155	7180	8672	6413	5520	4920	4766	5621	3455	1
1961 FED FIRM SURPLUS/DEFICIT	6030	2683	3746	4838	2868	3805	4896	4671	5434	3215	1
1962 FED FIRM SURPLUS/DEFICIT	3193	4158	3717	4495	3449	3413	4882	5069	5989	3899	2
1963 FED FIRM SURPLUS/DEFICIT	5680	4388	3581	4757	2885	5459	4924	5249	5419	3836	1
1964 FED FIRM SURPLUS/DEFICIT	5331	4216	4053	4439	3152	3689	4921	4729	5508	3256	1
1965 FED FIRM SURPLUS/DEFICIT	7084	4902	3593	4867	3789	5677	4926	4745	5512	3234	1
1966 FED FIRM SURPLUS/DEFICIT	7877	7133	3872	4649	3777	4473	4917	5331	5773	3827	1
1967 FED FIRM SURPLUS/DEFICIT	6164	3343	3675	4398	3513	3430	4914	4673	5434	3162	1
1968 FED FIRM SURPLUS/DEFICIT	7643	5031	3837	3994	3145	4129	4925	4953	6023	2917	1
1969 FED FIRM SURPLUS/DEFICIT	3285	5529	5449	6192	5220	5418	4914	4634	5429	3227	1
1970 FED FIRM SURPLUS/DEFICIT	3445	2621	2468	3875	3010	3490	4900	5511	6483	4059	1
1971 FED FIRM SURPLUS/DEFICIT	2593	2634	2568	3579	3034	3759	4913	4574	5342	2933	1
1972 FED FIRM SURPLUS/DEFICIT	8207	5260	2481	3515	2543	4899	4921	4598	5436	3291	1
1973 FED FIRM SURPLUS/DEFICIT	8195	7541	2479	4096	3306	4756	4596	3625	1801	-790	1
1974 FED FIRM SURPLUS/DEFICIT	2592	2631	2473	2822	1199	5531	4914	4936	5478	3079	1
1975 FED FIRM SURPLUS/DEFICIT	8211	6691	2706	4038	3256	3053	4917	4760	5632	2113	1
1976 FED FIRM SURPLUS/DEFICIT	4275	5306	2481	4562	4949	5668	4922	4629	5401	3183	1
1977 FED FIRM SURPLUS/DEFICIT	8192	8732	6939	4510	3552	4061	1722	-85	1087	844	1
1978 FED FIRM SURPLUS/DEFICIT	2725	2827	2389	2733	2063	3295	4840	4531	5448	3096	1

1994-95

OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	
UNADJUSTED	1-15	16-31								1-15	16
1929 FED FIRM SURPLUS/DEFICIT	6078	3140	3296	3001	3275	4335	1745	1186	1753	1634	2
1930 FED FIRM SURPLUS/DEFICIT	2957	2995	2400	1669	2833	3363	1463	7	1409	2385	2
1931 FED FIRM SURPLUS/DEFICIT	5101	3810	2367	1811	2737	3865	1401	-288	732	4156	1
1932 FED FIRM SURPLUS/DEFICIT	2141	2767	2299	1316	1593	2847	4439	5137	5317	4918	3
1933 FED FIRM SURPLUS/DEFICIT	4617	5335	3921	3038	3046	4646	5706	5299	5535	4856	3
1934 FED FIRM SURPLUS/DEFICIT	7753	6847	3765	3411	6129	6250	5724	5357	5644	5185	3

1935 FED FIRM SURPLUS/DEFICIT	3541	3421	3956	2732	2921	4348	5660	5941	4202	4050	3414
1936 FED FIRM SURPLUS/DEFICIT	6541	3202	3940	3165	3815	4688	5305	3679	5302	5203	3511
1937 FED FIRM SURPLUS/DEFICIT	3248	3065	3449	3279	3940	4332	1235	1918	1680	2707	2807
1938 FED FIRM SURPLUS/DEFICIT	2223	2433	2352	1373	437	3061	5698	5276	5656	5027	3078
1939 FED FIRM SURPLUS/DEFICIT	2746	2647	3891	3339	3626	4188	3976	286	5880	6027	4027
1940 FED FIRM SURPLUS/DEFICIT	4239	3226	3775	3464	4010	4417	4457	800	6068	6841	4804
1941 FED FIRM SURPLUS/DEFICIT	3871	3222	2463	1932	2982	3866	2236	2318	1760	4839	3447
1942 FED FIRM SURPLUS/DEFICIT	4791	4710	2342	1651	3216	6187	5672	5941	3863	5797	3388
1943 FED FIRM SURPLUS/DEFICIT	5701	3772	3962	3315	3336	4438	5704	5369	5643	5195	3295
1944 FED FIRM SURPLUS/DEFICIT	6045	2919	3537	3073	3727	4328	1409	708	517	2921	2913
1945 FED FIRM SURPLUS/DEFICIT	2505	2346	2406	1425	1831	3061	2561	1063	1980	3867	2045
1946 FED FIRM SURPLUS/DEFICIT	2238	2284	2410	1437	1979	2752	5737	5363	5681	4913	3233
1947 FED FIRM SURPLUS/DEFICIT	5878	3573	3899	3202	3180	6156	5733	5403	5737	5130	3361
1948 FED FIRM SURPLUS/DEFICIT	4538	2610	3679	5469	4944	5959	5731	5359	5574	5071	2976
1949 FED FIRM SURPLUS/DEFICIT	7446	6902	3946	3095	3563	4625	5709	5556	5919	5467	3523
1950 FED FIRM SURPLUS/DEFICIT	2243	2287	2395	1433	1636	4479	5728	5337	5601	5098	3162
1951 FED FIRM SURPLUS/DEFICIT	7633	6174	3663	4173	5578	6302	5744	5380	5645	5157	3257
1952 FED FIRM SURPLUS/DEFICIT	7706	4195	3268	5017	3236	5843	5705	5493	5821	5383	3481
1953 FED FIRM SURPLUS/DEFICIT	5155	2284	3585	3115	3893	4591	5760	5429	4869	4595	3058
1954 FED FIRM SURPLUS/DEFICIT	5562	4705	3589	3171	3120	4464	5735	5362	5567	5053	3129
1955 FED FIRM SURPLUS/DEFICIT	7843	8297	5945	3085	3764	5457	5715	5765	5052	5652	2140
1956 FED FIRM SURPLUS/DEFICIT	6675	2905	3399	2016	4442	6295	5742	5347	5575	5053	3001
1957 FED FIRM SURPLUS/DEFICIT	6319	5025	2400	1764	2458	5879	5714	5512	5881	5420	3505
1958 FED FIRM SURPLUS/DEFICIT	2473	2284	3491	3140	3513	4265	5734	5544	5921	5197	3256
1959 FED FIRM SURPLUS/DEFICIT	2764	2925	3515	2983	3086	5536	5754	5345	5557	5084	3201
1960 FED FIRM SURPLUS/DEFICIT	6421	4805	7127	7308	6412	6119	5715	5442	5804	5403	3187
1961 FED FIRM SURPLUS/DEFICIT	5677	2334	3684	3450	2872	4398	5716	5373	5630	5163	3265
1962 FED FIRM SURPLUS/DEFICIT	2839	3809	3659	3105	3427	4014	5701	5735	6162	5847	3612
1963 FED FIRM SURPLUS/DEFICIT	5328	4040	3520	3372	2880	6067	5722	5930	5597	5784	2370
1964 FED FIRM SURPLUS/DEFICIT	4977	3866	3993	3051	3140	4282	5739	5396	5683	5204	2468
1965 FED FIRM SURPLUS/DEFICIT	6738	4561	3533	3480	3769	6291	5743	5431	5695	5181	3280
1966 FED FIRM SURPLUS/DEFICIT	7524	6784	3814	3259	3752	5053	5716	5987	5958	5775	3273
1967 FED FIRM SURPLUS/DEFICIT	5811	2994	3615	3010	3495	4041	5738	5349	5613	5110	1900
1968 FED FIRM SURPLUS/DEFICIT	7289	4683	3777	2614	3134	4724	5746	5643	6212	4865	2057
1969 FED FIRM SURPLUS/DEFICIT	2937	5182	5390	4807	5208	6030	5730	5309	5600	5176	3321
1970 FED FIRM SURPLUS/DEFICIT	3099	2271	2406	2486	2984	4071	5705	6196	6680	6007	2563
1971 FED FIRM SURPLUS/DEFICIT	2247	2283	2505	2187	3006	4347	5724	5258	5546	4881	3059
1972 FED FIRM SURPLUS/DEFICIT	7892	4920	2430	2123	2516	5488	5728	5272	5634	5239	3008
1973 FED FIRM SURPLUS/DEFICIT	7874	7202	2428	2709	3278	5338	5414	4304	1973	1158	1245
1974 FED FIRM SURPLUS/DEFICIT	2242	2282	2413	1432	1173	6134	5744	5623	5667	5026	2912
1975 FED FIRM SURPLUS/DEFICIT	7897	6355	2658	2646	3229	3635	5732	5450	5816	4061	3170
1976 FED FIRM SURPLUS/DEFICIT	3951	4961	2425	3168	4923	6272	5755	5317	5584	5131	3223
1977 FED FIRM SURPLUS/DEFICIT	7862	8390	6886	3118	3524	4635	2516	571	1256	2792	3108
1978 FED FIRM SURPLUS/DEFICIT	2371	2476	2326	1343	2034	3903	5672	5199	5627	5044	3163

*Less cold weather adjustment

*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2800
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*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
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*Add firm capacity to meet Fed firm

energy loads at C-E ratio of .77	193	193	193	193	193	193	193	193	193	193
	1994-95									
OPERATING YEAR	RUN									
DATE: 03/05/93 MEDIUM LOAD										
FORECAST										
PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
<i>ADJUSTED</i>	1-15	16-31								1-15
1929 FED FIRM SURPLUS/DEFICIT	6471	3533	3389	4444	3368	3828	988	579	1646	-273
1930 FED FIRM SURPLUS/DEFICIT	3350	3388	2493	3112	2926	2856	706	-600	1302	478
1931 FED FIRM SURPLUS/DEFICIT	5494	4203	2460	3254	2830	3358	644	-895	625	2249
1932 FED FIRM SURPLUS/DEFICIT	2534	3160	2392	2759	1686	2340	3682	4530	5210	3011
1933 FED FIRM SURPLUS/DEFICIT	5010	5728	4014	4481	3139	4139	4949	4692	5428	2949
1934 FED FIRM SURPLUS/DEFICIT	8146	7240	3858	4854	6222	5743	4967	4750	5537	3278
1935 FED FIRM SURPLUS/DEFICIT	3934	3814	4049	4175	3014	3841	4903	5334	4095	2143
1936 FED FIRM SURPLUS/DEFICIT	6934	3595	4033	4608	3908	4181	4548	3072	5195	3296
1937 FED FIRM SURPLUS/DEFICIT	3641	3458	3542	4722	4033	3825	478	1311	1573	800
1938 FED FIRM SURPLUS/DEFICIT	2616	2826	2445	2816	530	2554	4941	4669	5549	3120
1939 FED FIRM SURPLUS/DEFICIT	3139	3040	3984	4782	3719	3681	3219	-321	5773	4120
1940 FED FIRM SURPLUS/DEFICIT	4632	3619	3868	4907	4103	3910	3700	193	5961	4934
1941 FED FIRM SURPLUS/DEFICIT	4264	3615	2556	3375	3075	3359	1479	1711	1653	2932
1942 FED FIRM SURPLUS/DEFICIT	5184	5103	2435	3094	3309	5680	4915	5334	3756	3890
1943 FED FIRM SURPLUS/DEFICIT	6094	4165	4055	4758	3429	3931	4947	4762	5536	3288
1944 FED FIRM SURPLUS/DEFICIT	6438	3312	3630	4516	3820	3821	652	101	410	1014
1945 FED FIRM SURPLUS/DEFICIT	2898	2739	2499	2868	1924	2554	1804	456	1873	1960
1946 FED FIRM SURPLUS/DEFICIT	2631	2677	2503	2880	2072	2245	4980	4756	5574	3006
1947 FED FIRM SURPLUS/DEFICIT	6271	3966	3992	4645	3273	5649	4976	4796	5630	3223
1948 FED FIRM SURPLUS/DEFICIT	4931	3003	3772	6912	5037	5452	4974	4752	5467	3164
1949 FED FIRM SURPLUS/DEFICIT	7839	7295	4039	4538	3656	4118	4952	4949	5812	3560
1950 FED FIRM SURPLUS/DEFICIT	2636	2680	2488	2876	1729	3972	4971	4730	5494	3191
1951 FED FIRM SURPLUS/DEFICIT	8026	6567	3756	5616	5671	5795	4987	4773	5538	3250
1952 FED FIRM SURPLUS/DEFICIT	8099	4588	3361	6460	3329	5336	4948	4886	5714	3476
1953 FED FIRM SURPLUS/DEFICIT	5548	2677	3678	4558	3986	4084	5003	4822	4762	2688
1954 FED FIRM SURPLUS/DEFICIT	5955	5098	3682	4614	3213	3957	4978	4755	5460	3146
1955 FED FIRM SURPLUS/DEFICIT	8236	8690	6038	4528	3857	4950	4958	5158	4945	3745
1956 FED FIRM SURPLUS/DEFICIT	7068	3298	3492	3459	4535	5788	4985	4740	5468	3146
1957 FED FIRM SURPLUS/DEFICIT	6712	5418	2493	3207	2551	5372	4957	4905	5774	3513
1958 FED FIRM SURPLUS/DEFICIT	2866	2677	3584	4583	3606	3758	4977	4937	5814	3290
1959 FED FIRM SURPLUS/DEFICIT	3157	3318	3608	4426	3179	5029	4997	4738	5450	3177
1960 FED FIRM SURPLUS/DEFICIT	6814	5198	7220	8751	6505	5612	4958	4835	5697	3496
1961 FED FIRM SURPLUS/DEFICIT	6070	2727	3777	4893	2965	3891	4959	4766	5523	3256
1962 FED FIRM SURPLUS/DEFICIT	3232	4202	3752	4548	3520	3507	4944	5128	6055	3940
1963 FED FIRM SURPLUS/DEFICIT	5721	4433	3613	4815	2973	5560	4965	5323	5490	3877
1964 FED FIRM SURPLUS/DEFICIT	5370	4259	4086	4494	3233	3775	4982	4789	5576	3297
1965 FED FIRM SURPLUS/DEFICIT	7131	4954	3626	4923	3862	5784	4986	4824	5588	3274
1966 FED FIRM SURPLUS/DEFICIT	7917	7177	3907	4702	3845	4546	4959	5380	5851	3868
1967 FED FIRM SURPLUS/DEFICIT	6204	3387	3708	4453	3588	3534	4981	4742	5506	3203
1968 FED FIRM SURPLUS/DEFICIT	7682	5076	3870	4057	3227	4217	4989	5036	6105	2958
1969 FED FIRM SURPLUS/DEFICIT	3330	5575	5483	6250	5301	5523	4973	4702	5493	3269
1970 FED FIRM SURPLUS/DEFICIT	3492	2664	2499	3929	3077	3564	4948	5589	6573	4100
1971 FED FIRM SURPLUS/DEFICIT	2640	2676	2598	3630	3099	3840	4967	4651	5439	2974
1972 FED FIRM SURPLUS/DEFICIT	8285	5313	2523	3566	2609	4981	4971	4665	5527	3332

1973 FED FIRM SURPLUS/DEFICIT	8267	7595	2521	4152	3371	4831	4657	3697	1866	-749	-62
1974 FED FIRM SURPLUS/DEFICIT	2635	2675	2506	2875	1266	5627	4987	5016	5560	3119	1605
1975 FED FIRM SURPLUS/DEFICIT	8290	6748	2751	4089	3322	3128	4975	4843	5709	2154	1863
1976 FED FIRM SURPLUS/DEFICIT	4344	5354	2518	4611	5016	5765	4998	4710	5477	3224	1916
1977 FED FIRM SURPLUS/DEFICIT	8255	8783	6979	4561	3617	4128	1759	-36	1149	885	1801
1978 FED FIRM SURPLUS/DEFICIT	2764	2869	2419	2786	2127	3396	4915	4592	5520	3137	1856

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FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR
UNADJUSTED	1-15	16-31								1-15	16-30
1929 FED FIRM SURPLUS/DEFICIT	6932	3997	4099	3811	3842	4942	2086	1553	2246	2309	3384
1930 FED FIRM SURPLUS/DEFICIT	3811	3853	3204	2480	3401	3970	1804	375	1902	3060	3286
1931 FED FIRM SURPLUS/DEFICIT	5955	4668	3171	2622	3304	4473	1742	80	1226	4831	2512
1932 FED FIRM SURPLUS/DEFICIT	2995	3624	3103	2126	2161	3454	4781	5504	5811	5593	3767
1933 FED FIRM SURPLUS/DEFICIT	5471	6193	4725	3848	3613	5253	6048	5667	6029	5531	3902
1934 FED FIRM SURPLUS/DEFICIT	8608	7705	4569	4221	6696	6858	6066	5725	6137	5860	4101
1935 FED FIRM SURPLUS/DEFICIT	4395	4279	4760	3543	3489	4955	6002	6309	4695	4725	4161
1936 FED FIRM SURPLUS/DEFICIT	7395	4060	4743	3975	4382	5295	5647	4047	5796	5878	4258
1937 FED FIRM SURPLUS/DEFICIT	4102	3923	4252	4089	4507	4939	1576	2286	2174	3383	3554
1938 FED FIRM SURPLUS/DEFICIT	3077	3290	3156	2183	1004	3668	6040	5643	6150	5702	3825
1939 FED FIRM SURPLUS/DEFICIT	3600	3505	4694	4150	4194	4796	4317	653	6374	6703	4774
1940 FED FIRM SURPLUS/DEFICIT	5093	4083	4579	4274	4577	5024	4799	1168	6561	7516	5551
1941 FED FIRM SURPLUS/DEFICIT	4725	4080	3267	2742	3549	4473	2578	2685	2253	5514	4194
1942 FED FIRM SURPLUS/DEFICIT	5645	5567	3146	2461	3784	6795	6013	6309	4356	6473	4135
1943 FED FIRM SURPLUS/DEFICIT	6555	4630	4765	4125	3904	5045	6046	5737	6137	5870	4041
1944 FED FIRM SURPLUS/DEFICIT	6900	3776	4341	3884	4294	4936	1751	1076	1010	3596	3660
1945 FED FIRM SURPLUS/DEFICIT	3360	3204	3210	2235	2399	3669	2903	1431	2474	4542	2792
1946 FED FIRM SURPLUS/DEFICIT	3092	3141	3214	2247	2546	3360	6079	5730	6174	5588	3980
1947 FED FIRM SURPLUS/DEFICIT	6732	4431	4703	4013	3747	6764	6075	5771	6231	5806	4108
1948 FED FIRM SURPLUS/DEFICIT	5392	3467	4483	6279	5511	6567	6073	5727	6067	5746	3723
1949 FED FIRM SURPLUS/DEFICIT	8300	7760	4750	3905	4130	5233	6051	5923	6412	6142	4270
1950 FED FIRM SURPLUS/DEFICIT	3097	3144	3199	2243	2203	5087	6070	5704	6095	5773	3909
1951 FED FIRM SURPLUS/DEFICIT	8487	7032	4466	4984	6145	6910	6086	5748	6139	5832	4004
1952 FED FIRM SURPLUS/DEFICIT	8560	5053	4072	5828	3803	6450	6047	5859	6314	6058	4228
1953 FED FIRM SURPLUS/DEFICIT	6009	3141	4388	3925	4461	5198	6102	5796	5363	5270	3805
1954 FED FIRM SURPLUS/DEFICIT	6416	5563	4392	3982	3688	5072	6077	5730	6061	5728	3876
1955 FED FIRM SURPLUS/DEFICIT	8697	9154	6748	3895	4331	6064	6057	6133	5546	6327	2887
1956 FED FIRM SURPLUS/DEFICIT	7529	3763	4203	2826	5010	6903	6084	5715	6069	5728	3748
1957 FED FIRM SURPLUS/DEFICIT	7173	5883	3203	2575	3025	6487	6056	5879	6374	6095	4252
1958 FED FIRM SURPLUS/DEFICIT	3327	3141	4295	3950	4080	4872	6076	5912	6415	5872	4003
1959 FED FIRM SURPLUS/DEFICIT	3618	3783	4318	3793	3654	6144	6096	5713	6050	5758	3948
1960 FED FIRM SURPLUS/DEFICIT	7275	5663	7930	8119	6979	6727	6057	5810	6298	6078	3934
1961 FED FIRM SURPLUS/DEFICIT	6531	3191	4487	4261	3440	5006	6057	5741	6123	5838	4012
1962 FED FIRM SURPLUS/DEFICIT	3694	4667	4462	3916	3994	4621	6043	6103	6655	6522	4359
1963 FED FIRM SURPLUS/DEFICIT	6182	4897	4324	4182	3448	6674	6064	6298	6091	6459	3117
1964 FED FIRM SURPLUS/DEFICIT	5831	4724	4797	3862	3708	4889	6081	5764	6177	5879	3215
1965 FED FIRM SURPLUS/DEFICIT	7593	5419	4337	4290	4337	6898	6085	5799	6189	5857	4027

1966 FED FIRM SURPLUS/DEFICIT	8378	7641	4618	4070	4319	5661	6058	6354	6452	6450	4
1967 FED FIRM SURPLUS/DEFICIT	6665	3851	4419	3820	4062	4648	6080	5717	6106	5785	2
1968 FED FIRM SURPLUS/DEFICIT	8143	5540	4580	3425	3701	5332	6088	6011	6706	5540	2
1969 FED FIRM SURPLUS/DEFICIT	3791	6039	6194	5617	5775	6638	6072	5677	6094	5851	4
1970 FED FIRM SURPLUS/DEFICIT	3953	3128	3210	3296	3551	4679	6047	6564	7174	6682	3
1971 FED FIRM SURPLUS/DEFICIT	3101	3140	3309	2997	3573	4955	6066	5626	6039	5556	3
1972 FED FIRM SURPLUS/DEFICIT	8746	5778	3233	2934	3084	6096	6070	5640	6128	5914	3
1973 FED FIRM SURPLUS/DEFICIT	8728	8060	3231	3519	3845	5946	5756	4671	2466	1833	1
1974 FED FIRM SURPLUS/DEFICIT	3096	3139	3217	2242	1740	6742	6086	5991	6161	5701	3
1975 FED FIRM SURPLUS/DEFICIT	8751	7213	3462	3457	3796	4242	6074	5818	6310	4736	3
1976 FED FIRM SURPLUS/DEFICIT	4805	5819	3228	3979	5490	6880	6097	5685	6078	5806	3
1977 FED FIRM SURPLUS/DEFICIT	8716	9248	7689	3928	4091	5242	2857	939	1749	3467	3
1978 FED FIRM SURPLUS/DEFICIT	3225	3333	3130	2153	2601	4511	6014	5567	6120	5719	3
*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .76	419	419	419	419	419	419	419	419	419	419	

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FORECAST

PEAK IN MEGAWATTS

	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	
<i>ADJUSTED</i>	1-15	16-31								1-15	1
1929 FED FIRM SURPLUS/DEFICIT	6451	3516	3318	4380	3061	3561	455	72	1265	-472	1
1930 FED FIRM SURPLUS/DEFICIT	3330	3372	2423	3049	2620	2589	173	-1106	921	279	1
1931 FED FIRM SURPLUS/DEFICIT	5474	4187	2390	3191	2523	3092	111	-1401	245	2050	1
1932 FED FIRM SURPLUS/DEFICIT	2514	3143	2322	2695	1380	2073	3150	4023	4830	2812	1
1933 FED FIRM SURPLUS/DEFICIT	4990	5712	3944	4417	2832	3872	4417	4186	5048	2750	1
1934 FED FIRM SURPLUS/DEFICIT	8127	7224	3788	4790	5915	5477	4435	4244	5156	3079	1
1935 FED FIRM SURPLUS/DEFICIT	3914	3798	3979	4112	2708	3574	4371	4828	3714	1944	1
1936 FED FIRM SURPLUS/DEFICIT	6914	3579	3962	4544	3601	3914	4016	2566	4815	3097	2
1937 FED FIRM SURPLUS/DEFICIT	3621	3442	3471	4658	3726	3558	-55	805	1193	602	1
1938 FED FIRM SURPLUS/DEFICIT	2596	2809	2375	2752	223	2287	4409	4162	5169	2921	1
1939 FED FIRM SURPLUS/DEFICIT	3119	3024	3913	4719	3413	3415	2686	-828	5393	3922	2
1940 FED FIRM SURPLUS/DEFICIT	4612	3602	3798	4843	3796	3643	3168	-313	5580	4735	3
1941 FED FIRM SURPLUS/DEFICIT	4244	3599	2486	3311	2768	3092	947	1204	1272	2733	2
1942 FED FIRM SURPLUS/DEFICIT	5164	5086	2365	3030	3003	5414	4382	4828	3375	3692	1
1943 FED FIRM SURPLUS/DEFICIT	6074	4149	3984	4694	3123	3664	4415	4256	5156	3089	1
1944 FED FIRM SURPLUS/DEFICIT	6419	3295	3560	4453	3513	3555	120	-405	29	815	1
1945 FED FIRM SURPLUS/DEFICIT	2879	2723	2429	2804	1618	2288	1272	-50	1493	1761	
1946 FED FIRM SURPLUS/DEFICIT	2611	2660	2433	2816	1765	1979	4448	4249	5193	2807	1
1947 FED FIRM SURPLUS/DEFICIT	6251	3950	3922	4582	2966	5383	4444	4290	5250	3025	1
1948 FED FIRM SURPLUS/DEFICIT	4911	2986	3702	6848	4730	5186	4442	4246	5086	2965	1
1949 FED FIRM SURPLUS/DEFICIT	7819	7279	3969	4474	3349	3852	4420	4442	5431	3361	2
1950 FED FIRM SURPLUS/DEFICIT	2616	2663	2418	2812	1422	3706	4439	4223	5114	2992	1
1951 FED FIRM SURPLUS/DEFICIT	8006	6551	3685	5553	5364	5529	4455	4267	5158	3051	1
1952 FED FIRM SURPLUS/DEFICIT	8079	4572	3291	6397	3022	5069	4416	4378	5333	3277	2

1953 FED FIRM SURPLUS/DEFICIT	5528	2660	3607	4494	3680	3817	4471	4315	4382	2489	1624
1954 FED FIRM SURPLUS/DEFICIT	5935	5082	3611	4551	2907	3691	4446	4249	5080	2947	1695
1955 FED FIRM SURPLUS/DEFICIT	8216	8673	5967	4464	3550	4683	4426	4652	4565	3546	706
1956 FED FIRM SURPLUS/DEFICIT	7048	3282	3422	3395	4229	5522	4453	4234	5088	2947	1567
1957 FED FIRM SURPLUS/DEFICIT	6692	5402	2422	3144	2244	5106	4425	4398	5393	3314	2071
1958 FED FIRM SURPLUS/DEFICIT	2846	2660	3514	4519	3299	3491	4445	4431	5434	3091	1822
1959 FED FIRM SURPLUS/DEFICIT	3137	3302	3537	4362	2873	4763	4465	4232	5069	2977	1767
1960 FED FIRM SURPLUS/DEFICIT	6794	5182	7149	8688	6198	5346	4426	4329	5317	3297	1753
1961 FED FIRM SURPLUS/DEFICIT	6050	2710	3706	4830	2659	3625	4426	4260	5142	3057	1831
1962 FED FIRM SURPLUS/DEFICIT	3213	4186	3681	4485	3213	3240	4412	4622	5674	3741	2178
1963 FED FIRM SURPLUS/DEFICIT	5701	4416	3543	4751	2667	5293	4433	4817	5110	3678	936
1964 FED FIRM SURPLUS/DEFICIT	5350	4243	4016	4431	2927	3508	4450	4283	5196	3098	1034
1965 FED FIRM SURPLUS/DEFICIT	7112	4938	3556	4859	3556	5517	4454	4318	5208	3076	1846
1966 FED FIRM SURPLUS/DEFICIT	7897	7160	3837	4639	3538	4280	4427	4873	5471	3669	1839
1967 FED FIRM SURPLUS/DEFICIT	6184	3370	3638	4389	3281	3267	4449	4236	5125	3004	466
1968 FED FIRM SURPLUS/DEFICIT	7662	5059	3799	3994	2920	3951	4457	4530	5725	2759	623
1969 FED FIRM SURPLUS/DEFICIT	3310	5558	5413	6186	4994	5257	4441	4196	5113	3070	1887
1970 FED FIRM SURPLUS/DEFICIT	3472	2647	2429	3865	2770	3298	4416	5083	6193	3901	1129
1971 FED FIRM SURPLUS/DEFICIT	2620	2659	2528	3566	2792	3574	4435	4145	5058	2775	1625
1972 FED FIRM SURPLUS/DEFICIT	8265	5297	2452	3503	2303	4715	4439	4159	5147	3133	1573
1973 FED FIRM SURPLUS/DEFICIT	8247	7579	2450	4088	3064	4565	4125	3190	1485	-948	-189
1974 FED FIRM SURPLUS/DEFICIT	2615	2658	2436	2811	959	5361	4455	4510	5180	2920	1477
1975 FED FIRM SURPLUS/DEFICIT	8270	6732	2681	4026	3015	2861	4443	4337	5329	1955	1735
1976 FED FIRM SURPLUS/DEFICIT	4324	5338	2447	4548	4709	5499	4466	4204	5097	3025	1789
1977 FED FIRM SURPLUS/DEFICIT	8235	8767	6908	4497	3310	3861	1226	-542	768	686	1674
1978 FED FIRM SURPLUS/DEFICIT	2744	2852	2349	2722	1820	3130	4383	4086	5139	2938	1729

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FORECAST

PEAK IN MEGAWATTS

UNADJUSTED	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30
1929 FED FIRM SURPLUS/DEFICIT	6981	4046	4116	3743	3844	4906	2200	1661	2353	2659	3729
1930 FED FIRM SURPLUS/DEFICIT	3859	3901	3220	2412	3402	3934	1918	482	2009	3409	3632
1931 FED FIRM SURPLUS/DEFICIT	6003	4716	3187	2554	3306	4437	1856	187	1332	5180	2857
1932 FED FIRM SURPLUS/DEFICIT	3043	3672	3119	2058	2162	3418	4894	5612	5918	5941	4112
1933 FED FIRM SURPLUS/DEFICIT	5519	6241	4741	3780	3615	5217	6161	5774	6136	5880	4248
1934 FED FIRM SURPLUS/DEFICIT	8656	7753	4586	4153	6698	6822	6179	5832	6244	6210	4446
1935 FED FIRM SURPLUS/DEFICIT	4443	4327	4776	3475	3490	4919	6115	6417	4802	5075	4506
1936 FED FIRM SURPLUS/DEFICIT	7443	4108	4760	3907	4384	5259	5760	4154	5902	6228	4603
1937 FED FIRM SURPLUS/DEFICIT	4150	3971	4269	4021	4509	4903	1690	2393	2280	3732	3899
1938 FED FIRM SURPLUS/DEFICIT	3125	3339	3172	2115	1006	3632	6154	5751	6256	6051	4171
1939 FED FIRM SURPLUS/DEFICIT	3648	3553	4711	4082	4195	4760	4431	761	6480	7052	5119
1940 FED FIRM SURPLUS/DEFICIT	5141	4132	4596	4206	4579	4988	4912	1275	6668	7865	5896
1941 FED FIRM SURPLUS/DEFICIT	4773	4128	3284	2674	3551	4437	2691	2793	2360	5863	4540
1942 FED FIRM SURPLUS/DEFICIT	5694	5615	3162	2394	3785	6759	6127	6416	4463	6822	4480
1943 FED FIRM SURPLUS/DEFICIT	6603	4678	4782	4057	3905	5009	6159	5845	6244	6220	4387
1944 FED FIRM SURPLUS/DEFICIT	6948	3825	4358	3816	4296	4900	1864	1183	1117	3946	4005
1945 FED FIRM SURPLUS/DEFICIT	3408	3252	3226	2167	2400	3633	3016	1538	2581	4891	3138

1946 FED FIRM SURPLUS/DEFICIT	3140	3190	3230	2179	2548	3324	6192	5838	6281	5937	4
1947 FED FIRM SURPLUS/DEFICIT	6780	4479	4720	3945	3749	6728	6188	5879	6337	6155	4
1948 FED FIRM SURPLUS/DEFICIT	5440	3515	4499	6211	5513	6531	6186	5834	6174	6095	4
1949 FED FIRM SURPLUS/DEFICIT	8348	7808	4766	3838	4132	5197	6164	6031	6519	6491	4
1950 FED FIRM SURPLUS/DEFICIT	3145	3193	3215	2175	2205	5051	6183	5812	6201	6123	4
1951 FED FIRM SURPLUS/DEFICIT	8535	7080	4483	4916	6147	6874	6199	5855	6246	6181	4
1952 FED FIRM SURPLUS/DEFICIT	8608	5101	4088	5760	3805	6414	6160	5968	6421	6407	4
1953 FED FIRM SURPLUS/DEFICIT	6058	3190	4405	3857	4462	5162	6215	5904	5469	5620	4
1954 FED FIRM SURPLUS/DEFICIT	6465	5611	4409	3914	3689	5036	6190	5838	6168	6078	4
1955 FED FIRM SURPLUS/DEFICIT	8745	9203	6765	3827	4333	6028	6170	6241	5653	6676	3
1956 FED FIRM SURPLUS/DEFICIT	7577	3811	4219	2758	5011	6867	6197	5822	6175	6077	4
1957 FED FIRM SURPLUS/DEFICIT	7221	5931	3220	2507	3026	6451	6169	5987	6481	6444	4
1958 FED FIRM SURPLUS/DEFICIT	3375	3190	4312	3883	4081	4836	6189	6019	6521	6221	4
1959 FED FIRM SURPLUS/DEFICIT	3666	3831	4335	3725	3655	6108	6209	5821	6157	6107	4
1960 FED FIRM SURPLUS/DEFICIT	7324	5711	7947	8051	6980	6691	6170	5917	6405	6427	4
1961 FED FIRM SURPLUS/DEFICIT	6579	3239	4504	4193	3441	4970	6171	5848	6230	6188	4
1962 FED FIRM SURPLUS/DEFICIT	3742	4715	4479	3848	3996	4585	6156	6210	6762	6872	4
1963 FED FIRM SURPLUS/DEFICIT	6230	4946	4340	4114	3449	6638	6177	6406	6197	6808	3
1964 FED FIRM SURPLUS/DEFICIT	5879	4772	4814	3794	3709	4853	6194	5871	6284	6229	3
1965 FED FIRM SURPLUS/DEFICIT	7641	5467	4354	4222	4338	6862	6198	5906	6295	6206	4
1966 FED FIRM SURPLUS/DEFICIT	8427	7690	4634	4002	4321	5625	6171	6462	6559	6800	4
1967 FED FIRM SURPLUS/DEFICIT	6713	3899	4436	3752	4063	4612	6193	5824	6213	6134	2
1968 FED FIRM SURPLUS/DEFICIT	8191	5588	4597	3357	3703	5296	6201	6118	6812	5889	3
1969 FED FIRM SURPLUS/DEFICIT	3839	6088	6210	5550	5777	6602	6185	5784	6200	6199	4
1970 FED FIRM SURPLUS/DEFICIT	4001	3177	3227	3228	3553	4643	6160	6671	7280	7032	3
1971 FED FIRM SURPLUS/DEFICIT	3149	3189	3325	2929	3575	4919	6179	5733	6146	5906	4
1972 FED FIRM SURPLUS/DEFICIT	8794	5826	3250	2866	3085	6060	6183	5747	6234	6263	4
1973 FED FIRM SURPLUS/DEFICIT	8776	8108	3248	3451	3846	5910	5869	4779	2573	2182	2
1974 FED FIRM SURPLUS/DEFICIT	3144	3188	3233	2174	1741	6706	6199	6100	6267	6050	4
1975 FED FIRM SURPLUS/DEFICIT	8800	7261	3478	3389	3798	4206	6187	5925	6416	5085	4
1976 FED FIRM SURPLUS/DEFICIT	4853	5867	3245	3911	5492	6844	6210	5793	6184	6155	4
1977 FED FIRM SURPLUS/DEFICIT	8764	9296	7706	3861	4093	5206	2971	1046	1856	3816	4
1978 FED FIRM SURPLUS/DEFICIT	3273	3382	3146	2085	2603	4475	6127	5674	6227	6068	4

*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-5
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .67	369	369	369	369	369	369	369	369	369	369	

1996-97											
OPERATING YEAR RUN											
DATE: 03/05/93 MEDIUM LOAD FORECAST											
PEAK IN MEGAWATTS											
ADJUSTED											
1929 FED FIRM SURPLUS/DEFICIT											
1930 FED FIRM SURPLUS/DEFICIT											
1931 FED FIRM SURPLUS/DEFICIT											
	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	
	1-15	16-31								1-15	1
	6450	3515	3285	4262	3013	3475	519	130	1322	-172	1
	3328	3370	2389	2931	2571	2503	237	-1049	978	578	1
	5472	4185	2356	3073	2475	3006	175	-1344	301	2349	

1932 FED FIRM SURPLUS/DEFICIT	2512	3141	2288	2577	1331	1987	3213	4081	4887	3110	1881
1933 FED FIRM SURPLUS/DEFICIT	4988	5710	3910	4299	2784	3786	4480	4243	5105	3049	2017
1934 FED FIRM SURPLUS/DEFICIT	8125	7222	3755	4672	5867	5391	4498	4301	5213	3379	2215
1935 FED FIRM SURPLUS/DEFICIT	3912	3796	3945	3994	2659	3488	4434	4886	3771	2244	2275
1936 FED FIRM SURPLUS/DEFICIT	6912	3577	3929	4426	3553	3828	4079	2623	4871	3397	2372
1937 FED FIRM SURPLUS/DEFICIT	3619	3440	3438	4540	3678	3472	9	862	1249	901	1668
1938 FED FIRM SURPLUS/DEFICIT	2594	2808	2341	2634	175	2201	4473	4220	5225	3220	1940
1939 FED FIRM SURPLUS/DEFICIT	3117	3022	3880	4601	3364	3329	2750	-770	5449	4221	2888
1940 FED FIRM SURPLUS/DEFICIT	4610	3601	3765	4725	3748	3557	3231	-256	5637	5034	3665
1941 FED FIRM SURPLUS/DEFICIT	4242	3597	2453	3193	2720	3006	1010	1262	1329	3032	2309
1942 FED FIRM SURPLUS/DEFICIT	5163	5084	2331	2913	2954	5328	4446	4885	3432	3991	2249
1943 FED FIRM SURPLUS/DEFICIT	6072	4147	3951	4576	3074	3578	4478	4314	5213	3389	2156
1944 FED FIRM SURPLUS/DEFICIT	6417	3294	3527	4335	3465	3469	183	-348	86	1115	1774
1945 FED FIRM SURPLUS/DEFICIT	2877	2721	2395	2686	1569	2202	1335	7	1550	2060	907
1946 FED FIRM SURPLUS/DEFICIT	2609	2659	2399	2698	1717	1893	4511	4307	5250	3106	2094
1947 FED FIRM SURPLUS/DEFICIT	6249	3948	3889	4464	2918	5297	4507	4348	5306	3324	2223
1948 FED FIRM SURPLUS/DEFICIT	4909	2984	3668	6730	4682	5100	4505	4303	5143	3264	1837
1949 FED FIRM SURPLUS/DEFICIT	7817	7277	3935	4357	3301	3766	4483	4500	5488	3660	2384
1950 FED FIRM SURPLUS/DEFICIT	2614	2662	2384	2694	1374	3620	4502	4281	5170	3292	2024
1951 FED FIRM SURPLUS/DEFICIT	8004	6549	3652	5435	5316	5443	4518	4324	5215	3350	2118
1952 FED FIRM SURPLUS/DEFICIT	8077	4570	3257	6279	2974	4983	4479	4437	5390	3576	2343
1953 FED FIRM SURPLUS/DEFICIT	5527	2659	3574	4376	3631	3731	4534	4373	4438	2789	1919
1954 FED FIRM SURPLUS/DEFICIT	5934	5080	3578	4433	2858	3605	4509	4307	5137	3247	1991
1955 FED FIRM SURPLUS/DEFICIT	8214	8672	5934	4346	3502	4597	4489	4710	4622	3845	1002
1956 FED FIRM SURPLUS/DEFICIT	7046	3280	3388	3277	4180	5436	4516	4291	5144	3246	1862
1957 FED FIRM SURPLUS/DEFICIT	6690	5400	2389	3026	2195	5020	4488	4456	5450	3613	2366
1958 FED FIRM SURPLUS/DEFICIT	2844	2659	3481	4402	3250	3405	4488	4488	5490	3390	2117
1959 FED FIRM SURPLUS/DEFICIT	3135	3300	3504	4244	2824	4677	4528	4290	5126	3276	2062
1960 FED FIRM SURPLUS/DEFICIT	6793	5180	7116	8570	6149	5260	4489	4386	5374	3596	2048
1961 FED FIRM SURPLUS/DEFICIT	6048	2708	3673	4712	2610	3539	4490	4317	5199	3357	2126
1962 FED FIRM SURPLUS/DEFICIT	3211	4184	3648	4367	3165	3154	4475	4679	5731	4041	2473
1963 FED FIRM SURPLUS/DEFICIT	5699	4415	3509	4633	2618	5207	4496	4875	5166	3977	1232
1964 FED FIRM SURPLUS/DEFICIT	5348	4241	3983	4313	2878	3422	4513	4340	5253	3398	1329
1965 FED FIRM SURPLUS/DEFICIT	7110	4936	3523	4741	3507	5431	4517	4375	5264	3375	2141
1966 FED FIRM SURPLUS/DEFICIT	7896	7159	3803	4521	3490	4194	4490	4931	5528	3969	2134
1967 FED FIRM SURPLUS/DEFICIT	6182	3368	3605	4271	3232	3181	4512	4293	5182	3303	762
1968 FED FIRM SURPLUS/DEFICIT	7660	5057	3766	3876	2872	3865	4520	4587	5781	3058	918
1969 FED FIRM SURPLUS/DEFICIT	3308	5557	5379	6069	4946	5171	4504	4253	5169	3368	2183
1970 FED FIRM SURPLUS/DEFICIT	3470	2646	2396	3747	2722	3212	4479	5140	6249	4201	1424
1971 FED FIRM SURPLUS/DEFICIT	2618	2658	2494	3448	2744	3488	4498	4202	5115	3075	1921
1972 FED FIRM SURPLUS/DEFICIT	8263	5295	2419	3385	2254	4629	4502	4216	5203	3432	1869
1973 FED FIRM SURPLUS/DEFICIT	8245	7577	2417	3970	3015	4479	4188	3248	1542	-649	106
1974 FED FIRM SURPLUS/DEFICIT	2613	2657	2402	2693	910	5275	4518	4569	5236	3219	1773
1975 FED FIRM SURPLUS/DEFICIT	8269	6730	2647	3908	2967	2775	4506	4394	5385	2254	2031
1976 FED FIRM SURPLUS/DEFICIT	4322	5336	2414	4430	4661	5413	4529	4262	5153	3324	2085
1977 FED FIRM SURPLUS/DEFICIT	8233	8765	6875	4380	3262	3775	1290	-485	825	985	1969
1978 FED FIRM SURPLUS/DEFICIT	2742	2851	2315	2604	1772	3044	4446	4143	5196	3237	2025

OPERATING YEAR
 RUN DATE: 03/05/93 MEDIUM LOAD
 FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	/
UNADJUSTED	1-15	16-31								1-15	16-31
1929 FED FIRM SURPLUS/DEFICIT	6901	3965	4042	3653	3724	4771	2056	1530	2237	2518	3
1930 FED FIRM SURPLUS/DEFICIT	3779	3821	3146	2322	3282	3799	1774	351	1893	3269	3
1931 FED FIRM SURPLUS/DEFICIT	5924	4636	3113	2464	3185	4302	1712	56	1217	5039	2
1932 FED FIRM SURPLUS/DEFICIT	2963	3592	3045	1969	2042	3283	4751	5481	5802	5801	3
1933 FED FIRM SURPLUS/DEFICIT	5439	6161	4668	3691	3495	5082	6018	5644	6020	5739	4
1934 FED FIRM SURPLUS/DEFICIT	8576	7673	4512	4064	6578	6687	6036	5702	6129	6069	4
1935 FED FIRM SURPLUS/DEFICIT	4364	4247	4702	3385	3370	4784	5972	6286	4687	4934	4
1936 FED FIRM SURPLUS/DEFICIT	7364	4028	4686	3818	4264	5124	5617	4024	5787	6087	4
1937 FED FIRM SURPLUS/DEFICIT	4071	3890	4195	3932	4389	4768	1546	2263	2165	3591	3
1938 FED FIRM SURPLUS/DEFICIT	3045	3258	3098	2026	886	3497	6010	5620	6141	5910	4
1939 FED FIRM SURPLUS/DEFICIT	3568	3472	4637	3992	4075	4624	4287	630	6365	6911	4
1940 FED FIRM SURPLUS/DEFICIT	5061	4051	4522	4117	4459	4853	4769	1144	6552	7724	5
1941 FED FIRM SURPLUS/DEFICIT	4694	4048	3210	2585	3431	4302	2548	2662	2245	5722	4
1942 FED FIRM SURPLUS/DEFICIT	5614	5535	3088	2304	3665	6623	5983	6285	4348	6681	4
1943 FED FIRM SURPLUS/DEFICIT	6523	4597	4708	3968	3785	4874	6016	5714	6129	6079	4
1944 FED FIRM SURPLUS/DEFICIT	6868	3744	4284	3726	4176	4764	1721	1053	1001	3805	3
1945 FED FIRM SURPLUS/DEFICIT	3328	3172	3152	2078	2280	3497	2873	1408	2465	4750	2
1946 FED FIRM SURPLUS/DEFICIT	3060	3109	3156	2090	2428	3188	6049	5707	6165	5796	4
1947 FED FIRM SURPLUS/DEFICIT	6700	4398	4646	3855	3629	6592	6045	5748	6222	6014	4
1948 FED FIRM SURPLUS/DEFICIT	5361	3435	4426	6122	5393	6395	6043	5703	6059	5954	3
1949 FED FIRM SURPLUS/DEFICIT	8268	7728	4693	3748	4011	5062	6021	5900	6403	6351	4
1950 FED FIRM SURPLUS/DEFICIT	3065	3112	3141	2086	2084	4916	6040	5681	6086	5982	4
1951 FED FIRM SURPLUS/DEFICIT	8455	6999	4409	4826	6026	6739	6056	5724	6130	6040	4
1952 FED FIRM SURPLUS/DEFICIT	8528	5020	4015	5670	3684	6279	6017	5836	6305	6267	4
1953 FED FIRM SURPLUS/DEFICIT	5978	3109	4331	3768	4342	5027	6072	5773	5354	5479	4
1954 FED FIRM SURPLUS/DEFICIT	6385	5530	4335	3824	3569	4901	6047	5707	6052	5937	4
1955 FED FIRM SURPLUS/DEFICIT	8665	9122	6691	3738	4213	5893	6027	6110	5537	6535	3
1956 FED FIRM SURPLUS/DEFICIT	7497	3731	4145	2669	4891	6732	6054	5691	6060	5936	3
1957 FED FIRM SURPLUS/DEFICIT	7141	5850	3146	2417	2906	6315	6026	5856	6366	6304	4
1958 FED FIRM SURPLUS/DEFICIT	3296	3109	4238	3793	3961	4701	6046	5888	6406	6080	4
1959 FED FIRM SURPLUS/DEFICIT	3587	3751	4261	3636	3535	5973	6066	5690	6041	5967	4
1960 FED FIRM SURPLUS/DEFICIT	7244	5630	7873	7961	6860	6555	6027	5787	6289	6286	4
1961 FED FIRM SURPLUS/DEFICIT	6499	3159	4430	4103	3321	4834	6027	5718	6114	6047	4
1962 FED FIRM SURPLUS/DEFICIT	3662	4635	4405	3758	3876	4450	6013	6079	6647	6731	4
1963 FED FIRM SURPLUS/DEFICIT	6150	4865	4266	4024	3329	6503	6034	6275	6082	6667	3
1964 FED FIRM SURPLUS/DEFICIT	5800	4691	4740	3704	3589	4718	6051	5740	6168	6088	3
1965 FED FIRM SURPLUS/DEFICIT	7561	5386	4280	4132	4218	6727	6055	5775	6180	6065	4
1966 FED FIRM SURPLUS/DEFICIT	8347	7609	4560	3912	4201	5490	6028	6332	6443	6659	4
1967 FED FIRM SURPLUS/DEFICIT	6634	3819	4362	3663	3943	4477	6050	5694	6098	5993	2
1968 FED FIRM SURPLUS/DEFICIT	8112	5508	4523	3267	3583	5160	6058	5988	6697	5748	3
1969 FED FIRM SURPLUS/DEFICIT	3760	6007	6137	5460	5656	6466	6042	5654	6085	6059	4
1970 FED FIRM SURPLUS/DEFICIT	3921	3096	3153	3139	3433	4507	6017	6541	7165	6891	3
1971 FED FIRM SURPLUS/DEFICIT	3069	3108	3252	2840	3455	4783	6036	5602	6030	5765	4

1972 FED FIRM SURPLUS/DEFICIT	8714	5746	3176	2776	2965	5924	6040	5617	6119	6123	3959
1973 FED FIRM SURPLUS/DEFICIT	8696	8027	3174	3362	3726	5775	5726	4648	2457	2041	2197
1974 FED FIRM SURPLUS/DEFICIT	3064	3107	3159	2085	1621	6570	6056	5968	6152	5910	3863
1975 FED FIRM SURPLUS/DEFICIT	8720	7180	3404	3299	3678	4071	6044	5794	6301	4944	4121
1976 FED FIRM SURPLUS/DEFICIT	4774	5787	3171	3821	5372	6709	6067	5662	6069	6014	4175
1977 FED FIRM SURPLUS/DEFICIT	8684	9216	7632	3771	3973	5071	2827	916	1740	3676	4060
1978 FED FIRM SURPLUS/DEFICIT	3194	3301	3072	1996	2483	4339	5984	5544	6111	5927	4115
*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2800
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .72	397	397	397	397	397	397	397	397	397	397	397

1997-98

OPERATING YEAR

RUN

DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS

ADJUSTED

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30
1929 FED FIRM SURPLUS/DEFICIT	6398	3462	3239	4200	2921	3368	403	27	1234	-285	1386
1930 FED FIRM SURPLUS/DEFICIT	3276	3318	2343	2869	2479	2396	121	-1152	890	466	1288
1931 FED FIRM SURPLUS/DEFICIT	5421	4133	2310	3011	2382	2899	59	-1447	214	2236	514
1932 FED FIRM SURPLUS/DEFICIT	2460	3089	2242	2516	1239	1880	3098	3978	4799	2998	1768
1933 FED FIRM SURPLUS/DEFICIT	4936	5658	3865	4238	2692	3679	4365	4141	5017	2936	1904
1934 FED FIRM SURPLUS/DEFICIT	8073	7170	3709	4611	5775	5284	4383	4199	5126	3266	2102
1935 FED FIRM SURPLUS/DEFICIT	3861	3744	3899	3932	2567	3381	4319	4783	3684	2131	2163
1936 FED FIRM SURPLUS/DEFICIT	6861	3525	3883	4365	3461	3721	3964	2521	4784	3284	2259
1937 FED FIRM SURPLUS/DEFICIT	3568	3387	3392	4479	3586	3365	-107	760	1162	788	1556
1938 FED FIRM SURPLUS/DEFICIT	2542	2755	2295	2573	83	2094	4357	4117	5138	3107	1827
1939 FED FIRM SURPLUS/DEFICIT	3065	2969	3834	4539	3272	3221	2634	-873	5362	4108	2776
1940 FED FIRM SURPLUS/DEFICIT	4558	3548	3719	4664	3656	3450	3116	-359	5549	4921	3552
1941 FED FIRM SURPLUS/DEFICIT	4191	3545	2407	3132	2628	2899	895	1159	1242	2919	2196
1942 FED FIRM SURPLUS/DEFICIT	5111	5032	2285	2851	2862	5220	4330	4782	3345	3878	2136
1943 FED FIRM SURPLUS/DEFICIT	6020	4094	3905	4515	2982	3471	4363	4211	5126	3276	2043
1944 FED FIRM SURPLUS/DEFICIT	6365	3241	3481	4273	3373	3361	68	-450	-2	1002	1661
1945 FED FIRM SURPLUS/DEFICIT	2825	2669	2349	2625	1477	2094	1220	-95	1462	1947	794
1946 FED FIRM SURPLUS/DEFICIT	2557	2606	2353	2637	1625	1785	4396	4204	5162	2993	1981
1947 FED FIRM SURPLUS/DEFICIT	6197	3895	3843	4402	2826	5189	4392	4245	5219	3211	2110
1948 FED FIRM SURPLUS/DEFICIT	4858	2932	3623	6669	4590	4992	4390	4200	5056	3151	1725
1949 FED FIRM SURPLUS/DEFICIT	7765	7225	3890	4295	3208	3659	4368	4397	5400	3548	2271
1950 FED FIRM SURPLUS/DEFICIT	2562	2609	2338	2633	1281	3513	4387	4178	5083	3179	1911
1951 FED FIRM SURPLUS/DEFICIT	7952	6496	3606	5373	5223	5336	4403	4221	5127	3237	2006
1952 FED FIRM SURPLUS/DEFICIT	8025	4517	3212	6217	2881	4876	4364	4333	5302	3464	2230
1953 FED FIRM SURPLUS/DEFICIT	5475	2606	3528	4315	3539	3624	4419	4270	4351	2676	1806
1954 FED FIRM SURPLUS/DEFICIT	5882	5027	3532	4371	2766	3498	4394	4204	5049	3134	1878
1955 FED FIRM SURPLUS/DEFICIT	8162	8619	5888	4285	3410	4490	4374	4607	4534	3732	889
1956 FED FIRM SURPLUS/DEFICIT	6994	3228	3342	3216	4088	5329	4401	4188	5057	3133	1750
1957 FED FIRM SURPLUS/DEFICIT	6638	5347	2343	2964	2103	4912	4373	4353	5363	3501	2253

1958 FED FIRM SURPLUS/DEFICIT	2793	2606	3435	4340	3158	3298	4393	4385	5403	3277	2
1959 FED FIRM SURPLUS/DEFICIT	3084	3248	3458	4183	2732	4570	4413	4187	5038	3164	1
1960 FED FIRM SURPLUS/DEFICIT	6741	5127	7070	8508	6057	5152	4374	4284	5286	3483	1
1961 FED FIRM SURPLUS/DEFICIT	5996	2656	3627	4650	2518	3431	4374	4215	5111	3244	2
1962 FED FIRM SURPLUS/DEFICIT	3159	4132	3602	4305	3073	3047	4360	4576	5644	3928	2
1963 FED FIRM SURPLUS/DEFICIT	5647	4362	3463	4571	2526	5100	4381	4772	5079	3864	1
1964 FED FIRM SURPLUS/DEFICIT	5297	4188	3937	4251	2786	3315	4398	4237	5165	3285	1
1965 FED FIRM SURPLUS/DEFICIT	7058	4883	3477	4679	3415	5324	4402	4272	5177	3262	2
1966 FED FIRM SURPLUS/DEFICIT	7844	7106	3757	4459	3398	4087	4375	4829	5440	3856	2
1967 FED FIRM SURPLUS/DEFICIT	6131	3316	3559	4210	3140	3074	4397	4191	5095	3190	2
1968 FED FIRM SURPLUS/DEFICIT	7609	5005	3720	3814	2780	3757	4405	4485	5694	2945	2
1969 FED FIRM SURPLUS/DEFICIT	3257	5504	5334	6007	4853	5063	4389	4151	5082	3256	2
1970 FED FIRM SURPLUS/DEFICIT	3418	2593	2350	3686	2630	3104	4364	5038	6162	4088	1
1971 FED FIRM SURPLUS/DEFICIT	2566	2605	2449	3387	2652	3380	4383	4099	5027	2962	1
1972 FED FIRM SURPLUS/DEFICIT	8211	5243	2373	3323	2162	4521	4387	4114	5116	3320	1
1973 FED FIRM SURPLUS/DEFICIT	8193	7524	2371	3909	2923	4372	4073	3145	1454	-762	1
1974 FED FIRM SURPLUS/DEFICIT	2561	2604	2356	2632	818	5167	4403	4465	5149	3107	1
1975 FED FIRM SURPLUS/DEFICIT	8217	6677	2601	3846	2875	2668	4391	4291	5298	2141	1
1976 FED FIRM SURPLUS/DEFICIT	4271	5284	2368	4368	4569	5306	4414	4159	5066	3211	1
1977 FED FIRM SURPLUS/DEFICIT	8181	8713	6829	4318	3170	3668	1174	-587	737	873	1
1978 FED FIRM SURPLUS/DEFICIT	2691	2798	2269	2543	1680	2936	4331	4041	5108	3124	1

1998-99

OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	
UNADJUSTED	1-15	16-31								1-15	16-31
1929 FED FIRM SURPLUS/DEFICIT	7047	4112	4187	3782	3558	4601	1874	1348	2068	2171	3
1930 FED FIRM SURPLUS/DEFICIT	3926	3968	3292	2450	3116	3629	1592	169	1725	2922	3
1931 FED FIRM SURPLUS/DEFICIT	6070	4783	3259	2593	3019	4131	1530	-126	1048	4693	2
1932 FED FIRM SURPLUS/DEFICIT	3110	3739	3191	2097	1876	3113	4568	5299	5633	5454	3
1933 FED FIRM SURPLUS/DEFICIT	5586	6308	4813	3819	3329	4912	5835	5462	5851	5393	3
1934 FED FIRM SURPLUS/DEFICIT	8723	7820	4657	4192	6412	6516	5853	5520	5960	5722	3
1935 FED FIRM SURPLUS/DEFICIT	4510	4394	4848	3513	3204	4614	5789	6104	4518	4587	4
1936 FED FIRM SURPLUS/DEFICIT	7510	4175	4831	3946	4097	4954	5434	3842	5618	5740	4
1937 FED FIRM SURPLUS/DEFICIT	4217	4038	4340	4060	4222	4597	1364	2081	1996	3244	3
1938 FED FIRM SURPLUS/DEFICIT	3192	3405	3244	2154	719	3326	5828	5438	5972	5564	3
1939 FED FIRM SURPLUS/DEFICIT	3715	3620	4782	4121	3909	4454	4105	448	6196	6564	4
1940 FED FIRM SURPLUS/DEFICIT	5208	4198	4667	4245	4292	4683	4586	962	6384	7378	5
1941 FED FIRM SURPLUS/DEFICIT	4840	4195	3355	2713	3264	4131	2365	2480	2076	5376	4
1942 FED FIRM SURPLUS/DEFICIT	5760	5682	3234	2432	3499	6453	5801	6103	4179	6334	4
1943 FED FIRM SURPLUS/DEFICIT	6670	4744	4854	4096	3619	4704	5833	5532	5960	5732	3
1944 FED FIRM SURPLUS/DEFICIT	7014	3891	4429	3854	4009	4594	1538	871	833	3458	3
1945 FED FIRM SURPLUS/DEFICIT	3475	3319	3298	2206	2114	3327	2691	1226	2296	4404	2
1946 FED FIRM SURPLUS/DEFICIT	3207	3256	3302	2218	2261	3018	5867	5525	5996	5450	3
1947 FED FIRM SURPLUS/DEFICIT	6847	4546	4791	3983	3463	6422	5862	5566	6053	5667	3
1948 FED FIRM SURPLUS/DEFICIT	5507	3582	4571	6250	5226	6225	5860	5521	5890	5608	3
1949 FED FIRM SURPLUS/DEFICIT	8415	7875	4838	3876	3845	4891	5838	5718	6234	6004	4

1950 FED FIRM SURPLUS/DEFICIT	3212	3259	3287	2214	1918	4745	5857	5499	5917	5635	3799
1951 FED FIRM SURPLUS/DEFICIT	8602	7146	4554	4955	5860	6568	5873	5542	5961	5694	3894
1952 FED FIRM SURPLUS/DEFICIT	8675	5168	4160	5799	3518	6108	5834	5654	6136	5920	4118
1953 FED FIRM SURPLUS/DEFICIT	6124	3256	4476	3896	4176	4857	5889	5591	5185	5132	3695
1954 FED FIRM SURPLUS/DEFICIT	6531	5677	4480	3953	3403	4730	5864	5525	5883	5590	3766
1955 FED FIRM SURPLUS/DEFICIT	8812	9269	6836	3866	4046	5722	5845	5928	5368	6189	2777
1956 FED FIRM SURPLUS/DEFICIT	7644	3878	4291	2797	4725	6561	5871	5509	5891	5590	3638
1957 FED FIRM SURPLUS/DEFICIT	7288	5997	3291	2545	2740	6145	5843	5674	6197	5957	4142
1958 FED FIRM SURPLUS/DEFICIT	3442	3256	4383	3921	3795	4531	5863	5706	6237	5733	3893
1959 FED FIRM SURPLUS/DEFICIT	3733	3898	4406	3764	3369	5802	5883	5508	5872	5620	3838
1960 FED FIRM SURPLUS/DEFICIT	7390	5778	8018	8090	6694	6385	5844	5604	6120	5939	3824
1961 FED FIRM SURPLUS/DEFICIT	6646	3306	4576	4231	3155	4664	5845	5536	5946	5700	3902
1962 FED FIRM SURPLUS/DEFICIT	3809	4782	4550	3886	3709	4280	5830	5897	6478	6384	4249
1963 FED FIRM SURPLUS/DEFICIT	6297	5012	4412	4153	3163	6333	5851	6093	5913	6320	3008
1964 FED FIRM SURPLUS/DEFICIT	5946	4839	4885	3832	3423	4548	5869	5558	5998	5741	3105
1965 FED FIRM SURPLUS/DEFICIT	7707	5533	4425	4261	4052	6556	5872	5593	6011	5718	3917
1966 FED FIRM SURPLUS/DEFICIT	8493	7756	4706	4040	4034	5319	5846	6148	6274	6312	3910
1967 FED FIRM SURPLUS/DEFICIT	6780	3966	4507	3791	3777	4307	5867	5512	5929	5647	2537
1968 FED FIRM SURPLUS/DEFICIT	8258	5655	4668	3396	3416	4990	5875	5806	6528	5401	2694
1969 FED FIRM SURPLUS/DEFICIT	3906	6154	6282	5588	5490	6296	5859	5472	5916	5712	3958
1970 FED FIRM SURPLUS/DEFICIT	4068	3243	3298	3267	3267	4337	5834	6359	6996	6544	3200
1971 FED FIRM SURPLUS/DEFICIT	3216	3255	3397	2968	3288	4613	5854	5420	5862	5418	3696
1972 FED FIRM SURPLUS/DEFICIT	8861	5893	3321	2905	2799	5754	5857	5435	5950	5776	3645
1973 FED FIRM SURPLUS/DEFICIT	8843	8175	3319	3490	3560	5604	5543	4466	2289	1695	1882
1974 FED FIRM SURPLUS/DEFICIT	3211	3254	3305	2213	1455	6400	5874	5786	5983	5563	3549
1975 FED FIRM SURPLUS/DEFICIT	8866	7327	3550	3428	3511	3900	5861	5612	6132	4597	3807
1976 FED FIRM SURPLUS/DEFICIT	4920	5934	3316	3950	5206	6538	5884	5480	5900	5668	3860
1977 FED FIRM SURPLUS/DEFICIT	8831	9363	7777	3899	3806	4900	2645	734	1572	3329	3745
1978 FED FIRM SURPLUS/DEFICIT	3340	3448	3218	2124	2316	4169	5801	5362	5942	5581	3801

*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2800
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .75	481	481	481	481	481	481	481	481	481	481	481

1998-99
OPERATING YEAR RUN

DATE: 03/05/93 MEDIUM LOAD FORECAST

PEAK IN MEGAWATTS ADJUSTED	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30
1929 FED FIRM SURPLUS/DEFICIT	6628	3693	3468	4413	2839	3282	305	-71	1149	-548	1155
1930 FED FIRM SURPLUS/DEFICIT	3507	3549	2573	3081	2397	2310	23	-1250	806	203	1057
1931 FED FIRM SURPLUS/DEFICIT	5651	4364	2540	3224	2300	2812	-39	-1545	129	1974	283
1932 FED FIRM SURPLUS/DEFICIT	2691	3320	2472	2728	1157	1794	2999	3880	4714	2735	1538
1933 FED FIRM SURPLUS/DEFICIT	5167	5889	4094	4450	2610	3593	4266	4043	4932	2674	1673
1934 FED FIRM SURPLUS/DEFICIT	8304	7401	3938	4823	5693	5197	4284	4101	5041	3003	1872
1935 FED FIRM SURPLUS/DEFICIT	4091	3975	4129	4144	2485	3295	4220	4685	3599	1868	1932
1936 FED FIRM SURPLUS/DEFICIT	7091	3756	4112	4577	3378	3635	3865	2423	4699	3021	2029

1937 FED FIRM SURPLUS/DEFICIT	3798	3619	3621	4691	3503	3278	-205	662	1077	525	1
1938 FED FIRM SURPLUS/DEFICIT	2773	2986	2525	2785	0	2007	4259	4019	5053	2845	1
1939 FED FIRM SURPLUS/DEFICIT	3296	3201	4063	4752	3190	3135	2536	-971	5277	3845	2
1940 FED FIRM SURPLUS/DEFICIT	4789	3779	3948	4876	3573	3364	3017	-457	5465	4659	3
1941 FED FIRM SURPLUS/DEFICIT	4421	3776	2636	3344	2545	2812	796	1061	1157	2657	1
1942 FED FIRM SURPLUS/DEFICIT	5341	5263	2515	3063	2780	5134	4232	4684	3260	3615	1
1943 FED FIRM SURPLUS/DEFICIT	6251	4325	4135	4727	2900	3385	4264	4113	5041	3013	1
1944 FED FIRM SURPLUS/DEFICIT	6595	3472	3710	4485	3290	3275	-31	-548	-86	739	1
1945 FED FIRM SURPLUS/DEFICIT	3056	2900	2579	2837	1395	2008	1122	-193	1377	1685	1
1946 FED FIRM SURPLUS/DEFICIT	2788	2837	2583	2849	1542	1699	4298	4106	5077	2731	1
1947 FED FIRM SURPLUS/DEFICIT	6428	4127	4072	4614	2744	5103	4293	4147	5134	2948	1
1948 FED FIRM SURPLUS/DEFICIT	5088	3163	3852	6881	4507	4906	4291	4102	4971	2889	1
1949 FED FIRM SURPLUS/DEFICIT	7996	7456	4119	4507	3126	3572	4269	4299	5315	3285	2
1950 FED FIRM SURPLUS/DEFICIT	2793	2840	2568	2845	1199	3426	4288	4080	4998	2916	1
1951 FED FIRM SURPLUS/DEFICIT	8183	6727	3835	5586	5141	5249	4304	4123	5042	2975	1
1952 FED FIRM SURPLUS/DEFICIT	8256	4749	3441	6430	2799	4789	4265	4235	5217	3201	1
1953 FED FIRM SURPLUS/DEFICIT	5705	2837	3757	4527	3457	3538	4320	4172	4266	2413	1
1954 FED FIRM SURPLUS/DEFICIT	6112	5258	3761	4584	2684	3411	4295	4106	4964	2871	1
1955 FED FIRM SURPLUS/DEFICIT	8393	8850	6117	4497	3327	4403	4276	4509	4449	3470	1
1956 FED FIRM SURPLUS/DEFICIT	7225	3459	3572	3428	4006	5242	4302	4090	4972	2871	1
1957 FED FIRM SURPLUS/DEFICIT	6869	5578	2572	3176	2021	4826	4274	4255	5278	3238	2
1958 FED FIRM SURPLUS/DEFICIT	3023	2837	3664	4552	3076	3212	4294	4287	5318	3014	1
1959 FED FIRM SURPLUS/DEFICIT	3314	3479	3687	4395	2650	4483	4314	4089	4953	2901	1
1960 FED FIRM SURPLUS/DEFICIT	6971	5359	7299	8721	5975	5066	4275	4185	5201	3220	1
1961 FED FIRM SURPLUS/DEFICIT	6227	2887	3857	4862	2436	3345	4276	4117	5027	2981	1
1962 FED FIRM SURPLUS/DEFICIT	3390	4363	3831	4517	2990	2961	4261	4478	5559	3665	2
1963 FED FIRM SURPLUS/DEFICIT	5878	4593	3693	4784	2444	5014	4282	4674	4994	3601	1
1964 FED FIRM SURPLUS/DEFICIT	5527	4420	4166	4463	2704	3229	4300	4139	5079	3022	1
1965 FED FIRM SURPLUS/DEFICIT	7288	5114	3706	4892	3333	5237	4303	4174	5092	2999	1
1966 FED FIRM SURPLUS/DEFICIT	8074	7337	3987	4671	3315	4000	4277	4729	5355	3593	1
1967 FED FIRM SURPLUS/DEFICIT	6361	3547	3788	4422	3058	2988	4298	4093	5010	2928	1
1968 FED FIRM SURPLUS/DEFICIT	7839	5236	3949	4027	2697	3671	4306	4387	5609	2682	1
1969 FED FIRM SURPLUS/DEFICIT	3487	5735	5563	6219	4771	4977	4290	4053	4997	2993	1
1970 FED FIRM SURPLUS/DEFICIT	3649	2824	2579	3898	2548	3018	4265	4940	6077	3825	1
1971 FED FIRM SURPLUS/DEFICIT	2797	2836	2678	3599	2569	3294	4285	4001	4943	2699	1
1972 FED FIRM SURPLUS/DEFICIT	8442	5474	2602	3536	2080	4435	4288	4016	5031	3057	1
1973 FED FIRM SURPLUS/DEFICIT	8424	7756	2600	4121	2841	4285	3974	3047	1370	-1024	1
1974 FED FIRM SURPLUS/DEFICIT	2792	2835	2586	2844	736	5081	4305	4367	5064	2844	1
1975 FED FIRM SURPLUS/DEFICIT	8447	6908	2831	4059	2792	2581	4292	4193	5213	1878	1
1976 FED FIRM SURPLUS/DEFICIT	4501	5515	2597	4581	4487	5219	4315	4061	4981	2949	1
1977 FED FIRM SURPLUS/DEFICIT	8412	8944	7058	4530	3087	3581	1076	-685	653	610	1
1978 FED FIRM SURPLUS/DEFICIT	2921	3029	2499	2755	1597	2850	4232	3943	5023	2862	1

1999- 0

OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS

UNADJUSTED

1929 FED FIRM SURPLUS/DEFICIT	AUG 1-15	AUG 16-31	SEP 4006	OCT 3612	NOV 3310	DEC 4374	JAN 1642	FEB 1099	MAR 1846	APR 1-15	2196	3
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PacifiCorp Capacity Sale EIS

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Appendix D: Capacity Analysis

1930 FED FIRM SURPLUS/DEFICIT	3751	3792	3110	2281	2868	3402	1360	-80	1502	2947	3202
1931 FED FIRM SURPLUS/DEFICIT	5895	4607	3077	2423	2771	3904	1298	-375	825	4718	2427
1932 FED FIRM SURPLUS/DEFICIT	2935	3564	3009	1927	1628	2886	4337	5049	5410	5478	3682
1933 FED FIRM SURPLUS/DEFICIT	5411	6132	4631	3649	3081	4685	5604	5213	5629	5418	3818
1934 FED FIRM SURPLUS/DEFICIT	8548	7644	4475	4022	6164	6289	5622	5271	5737	5747	4016
1935 FED FIRM SURPLUS/DEFICIT	4335	4218	4666	3344	2956	4387	5558	5855	4295	4612	4076
1936 FED FIRM SURPLUS/DEFICIT	7335	3999	4649	3776	3849	4727	5203	3593	5395	5765	4173
1937 FED FIRM SURPLUS/DEFICIT	4042	3862	4158	3890	3975	4371	1132	1832	1773	3269	3469
1938 FED FIRM SURPLUS/DEFICIT	3017	3230	3062	1984	471	3099	5596	5189	5749	5589	3741
1939 FED FIRM SURPLUS/DEFICIT	3540	3444	4600	3951	3661	4227	3873	199	5973	6589	4689
1940 FED FIRM SURPLUS/DEFICIT	5033	4023	4485	4075	4045	4456	4355	713	6161	7403	5466
1941 FED FIRM SURPLUS/DEFICIT	4665	4019	3173	2543	3017	3905	2134	2231	1853	5400	4110
1942 FED FIRM SURPLUS/DEFICIT	5586	5507	3052	2262	3251	6226	5569	5854	3956	6359	4050
1943 FED FIRM SURPLUS/DEFICIT	6495	4569	4672	3926	3371	4477	5602	5283	5737	5757	3957
1944 FED FIRM SURPLUS/DEFICIT	6840	3716	4247	3685	3762	4367	1307	622	610	3483	3575
1945 FED FIRM SURPLUS/DEFICIT	3300	3143	3116	2036	1866	3100	2459	977	2073	4429	2708
1946 FED FIRM SURPLUS/DEFICIT	3032	3081	3120	2048	2014	2791	5635	5276	5774	5475	3895
1947 FED FIRM SURPLUS/DEFICIT	6672	4370	4609	3814	3215	6195	5631	5317	5830	5692	4024
1948 FED FIRM SURPLUS/DEFICIT	5332	3407	4389	6080	4978	5998	5629	5272	5667	5633	3638
1949 FED FIRM SURPLUS/DEFICIT	8240	7699	4656	3706	3597	4664	5607	5469	6012	6029	4185
1950 FED FIRM SURPLUS/DEFICIT	3037	3084	3105	2044	1670	4518	5626	5250	5694	5660	3825
1951 FED FIRM SURPLUS/DEFICIT	8427	6971	4372	4785	5612	6341	5642	5293	5738	5719	3919
1952 FED FIRM SURPLUS/DEFICIT	8500	4992	3978	5629	3270	5881	5603	5405	5914	5945	4144
1953 FED FIRM SURPLUS/DEFICIT	5950	3081	4295	3726	3928	4630	5658	5342	4962	5157	3720
1954 FED FIRM SURPLUS/DEFICIT	6357	5502	4298	3783	3155	4503	5633	5276	5661	5615	3792
1955 FED FIRM SURPLUS/DEFICIT	8637	9094	6655	3696	3798	5495	5613	5679	5146	6214	2803
1956 FED FIRM SURPLUS/DEFICIT	7469	3702	4109	2627	4477	6334	5640	5260	5668	5615	3663
1957 FED FIRM SURPLUS/DEFICIT	7113	5822	3110	2376	2492	5918	5612	5425	5974	5982	4167
1958 FED FIRM SURPLUS/DEFICIT	3267	3081	4201	3751	3547	4304	5632	5457	6014	5758	3918
1959 FED FIRM SURPLUS/DEFICIT	3558	3722	4224	3594	3121	5575	5652	5259	5650	5645	3863
1960 FED FIRM SURPLUS/DEFICIT	7216	5602	7836	7920	6446	6158	5613	5355	5897	5964	3849
1961 FED FIRM SURPLUS/DEFICIT	6471	3131	4394	4062	2907	4437	5613	5286	5723	5725	3927
1962 FED FIRM SURPLUS/DEFICIT	3634	4606	4368	3717	3461	4053	5599	5648	6255	6409	4274
1963 FED FIRM SURPLUS/DEFICIT	6122	4837	4230	3983	2915	6106	5620	5844	5690	6345	3033
1964 FED FIRM SURPLUS/DEFICIT	5771	4663	4703	3663	3175	4321	5637	5309	5777	5766	3130
1965 FED FIRM SURPLUS/DEFICIT	7533	5358	4243	4091	3804	6330	5641	5344	5788	5743	3942
1966 FED FIRM SURPLUS/DEFICIT	8319	7581	4524	3871	3787	5092	5614	5899	6051	6337	3935
1967 FED FIRM SURPLUS/DEFICIT	6605	3790	4325	3621	3529	4080	5636	5263	5706	5672	2563
1968 FED FIRM SURPLUS/DEFICIT	8083	5480	4486	3226	3168	4763	5644	5557	6305	5426	2719
1969 FED FIRM SURPLUS/DEFICIT	3731	5979	6100	5418	5242	6069	5628	5223	5693	5738	3984
1970 FED FIRM SURPLUS/DEFICIT	3893	3068	3116	3097	3019	4110	5603	6110	6773	6569	3225
1971 FED FIRM SURPLUS/DEFICIT	3041	3080	3215	2798	3040	4386	5622	5171	5639	5443	3722
1972 FED FIRM SURPLUS/DEFICIT	8686	5717	3139	2735	2551	5527	5626	5186	5727	5801	3670
1973 FED FIRM SURPLUS/DEFICIT	8668	7999	3137	3320	3312	5377	5312	4217	2066	1720	1907
1974 FED FIRM SURPLUS/DEFICIT	3036	3079	3123	2043	1207	6173	5642	5537	5760	5588	3574
1975 FED FIRM SURPLUS/DEFICIT	8692	7152	3368	3258	3264	3673	5630	5363	5909	4622	3832
1976 FED FIRM SURPLUS/DEFICIT	4745	5758	3134	3780	4958	6311	5653	5231	5677	5693	3885
1977 FED FIRM SURPLUS/DEFICIT	8656	9187	7595	3729	3559	4673	2413	485	1349	3354	3770
1978 FED FIRM SURPLUS/DEFICIT	3165	3273	3036	1954	2068	3942	5570	5113	5720	5606	3826

*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1
*Less cold weather adjustment					-1400	-1500	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-3400	-2
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .81	610	610	610	610	610	610	610	610	610	610	610	

1999-0
 OPERATING YEAR RUN

DATE: 03/05/93 MEDIUM LOAD
 FORECAST

PEAK IN MEGAWATTS ADJUSTED	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	
1929 FED FIRM SURPLUS/DEFICIT	7683	4747	4816	4422	2720	3684	952	409	2656	3006	4
1930 FED FIRM SURPLUS/DEFICIT	4561	4602	3920	3091	2278	2712	670	-770	2312	3757	4
1931 FED FIRM SURPLUS/DEFICIT	6705	5417	3887	3233	2181	3214	608	-1065	1635	5528	3
1932 FED FIRM SURPLUS/DEFICIT	3745	4374	3819	2737	1038	2196	3647	4359	6220	6288	4
1933 FED FIRM SURPLUS/DEFICIT	6221	6942	5441	4459	2491	3995	4914	4523	6439	6228	4
1934 FED FIRM SURPLUS/DEFICIT	9358	8454	5285	4832	5574	5599	4932	4581	6547	6557	4
1935 FED FIRM SURPLUS/DEFICIT	5145	5028	5476	4154	2366	3697	4868	5165	5105	5422	4
1936 FED FIRM SURPLUS/DEFICIT	8145	4809	5459	4586	3259	4037	4513	2903	6205	6575	4
1937 FED FIRM SURPLUS/DEFICIT	4852	4672	4968	4700	3385	3681	442	1142	2583	4079	4
1938 FED FIRM SURPLUS/DEFICIT	3827	4040	3872	2794	-119	2409	4906	4499	6559	6399	4
1939 FED FIRM SURPLUS/DEFICIT	4350	4254	5410	4761	3071	3537	3183	-491	6783	7399	5
1940 FED FIRM SURPLUS/DEFICIT	5843	4833	5295	4885	3455	3766	3665	23	6971	8213	6
1941 FED FIRM SURPLUS/DEFICIT	5475	4829	3983	3353	2427	3215	1444	1541	2663	6210	4
1942 FED FIRM SURPLUS/DEFICIT	6396	6317	3862	3072	2661	5536	4879	5164	4766	7169	4
1943 FED FIRM SURPLUS/DEFICIT	7305	5379	5482	4736	2781	3787	4912	4593	6547	6567	4
1944 FED FIRM SURPLUS/DEFICIT	7650	4526	5057	4495	3172	3677	617	-68	1420	4293	4
1945 FED FIRM SURPLUS/DEFICIT	4110	3953	3926	2846	1276	2410	1769	287	2883	5239	3
1946 FED FIRM SURPLUS/DEFICIT	3842	3891	3930	2858	1424	2101	4945	4586	6584	6285	4
1947 FED FIRM SURPLUS/DEFICIT	7482	5180	5419	4624	2625	5505	4941	4627	6640	6502	4
1948 FED FIRM SURPLUS/DEFICIT	6142	4217	5199	6890	4388	5308	4939	4582	6477	6443	4
1949 FED FIRM SURPLUS/DEFICIT	9050	8509	5466	4516	3007	3974	4917	4779	6822	6839	4
1950 FED FIRM SURPLUS/DEFICIT	3847	3894	3915	2854	1080	3828	4936	4560	6504	6470	4
1951 FED FIRM SURPLUS/DEFICIT	9237	7781	5182	5595	5022	5651	4952	4603	6548	6529	4
1952 FED FIRM SURPLUS/DEFICIT	9310	5802	4788	6439	2680	5191	4913	4715	6724	6755	4
1953 FED FIRM SURPLUS/DEFICIT	6760	3891	5105	4536	3338	3940	4968	4652	5772	5967	4
1954 FED FIRM SURPLUS/DEFICIT	7167	6312	5108	4593	2565	3813	4943	4586	6471	6425	4
1955 FED FIRM SURPLUS/DEFICIT	9447	9904	7465	4506	3208	4805	4923	4989	5956	7024	3
1956 FED FIRM SURPLUS/DEFICIT	8279	4512	4919	3437	3887	5644	4950	4570	6478	6425	4
1957 FED FIRM SURPLUS/DEFICIT	7923	6632	3920	3186	1902	5228	4922	4735	6784	6792	4
1958 FED FIRM SURPLUS/DEFICIT	4077	3891	5011	4561	2957	3614	4942	4767	6824	6568	4
1959 FED FIRM SURPLUS/DEFICIT	4368	4532	5034	4404	2531	4885	4962	4569	6460	6455	4
1960 FED FIRM SURPLUS/DEFICIT	8026	6412	8646	8730	5856	5468	4923	4665	6707	6774	4
1961 FED FIRM SURPLUS/DEFICIT	7281	3941	5204	4872	2317	3747	4923	4596	6533	6535	4
1962 FED FIRM SURPLUS/DEFICIT	4444	5416	5178	4527	2871	3363	4909	4958	7065	7219	5
1963 FED FIRM SURPLUS/DEFICIT	6932	5647	5040	4793	2325	5416	4930	5154	6500	7155	3
1964 FED FIRM SURPLUS/DEFICIT	6581	5473	5513	4473	2585	3631	4947	4619	6587	6576	3

1965 FED FIRM SURPLUS/DEFICIT	8343	6168	5053	4901	3214	5640	4951	4654	6598	6553	4752
1966 FED FIRM SURPLUS/DEFICIT	9129	8391	5334	4681	3197	4402	4924	5209	6861	7147	4745
1967 FED FIRM SURPLUS/DEFICIT	7415	4600	5135	4431	2939	3390	4946	4573	6516	6482	3373
1968 FED FIRM SURPLUS/DEFICIT	8893	6290	5296	4036	2578	4073	4954	4867	7115	6236	3529
1969 FED FIRM SURPLUS/DEFICIT	4541	6789	6910	6228	4652	5379	4938	4533	6503	6548	4794
1970 FED FIRM SURPLUS/DEFICIT	4703	3878	3926	3907	2429	3420	4913	5420	7583	7379	4035
1971 FED FIRM SURPLUS/DEFICIT	3851	3890	4025	3608	2450	3696	4932	4481	6449	6253	4532
1972 FED FIRM SURPLUS/DEFICIT	9496	6527	3949	3545	1961	4837	4936	4496	6537	6611	4480
1973 FED FIRM SURPLUS/DEFICIT	9478	8809	3947	4130	2722	4687	4622	3527	2876	2530	2717
1974 FED FIRM SURPLUS/DEFICIT	3846	3889	3933	2853	617	5483	4952	4847	6570	6398	4384
1975 FED FIRM SURPLUS/DEFICIT	9502	7962	4178	4068	2674	2983	4940	4673	6719	5432	4642
1976 FED FIRM SURPLUS/DEFICIT	5555	6568	3944	4590	4368	5621	4963	4541	6487	6503	4695
1977 FED FIRM SURPLUS/DEFICIT	9466	9997	8405	4539	2969	3983	1723	-205	2159	4164	4580
1978 FED FIRM SURPLUS/DEFICIT	3975	4083	3846	2764	1478	3252	4880	4423	6530	6416	4636

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UNADJUSTED

	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR
	1-15	16-31								1-15	16-30
1929 FED FIRM SURPLUS/DEFICIT	6814	3879	3941	3525	3187	4241	1531	989	1758	2110	3214
1930 FED FIRM SURPLUS/DEFICIT	3692	3735	3045	2193	2745	3269	1249	-190	1414	2861	3116
1931 FED FIRM SURPLUS/DEFICIT	5837	4550	3012	2336	2648	3772	1187	-485	738	4632	2342
1932 FED FIRM SURPLUS/DEFICIT	2877	3506	2944	1840	1505	2753	4225	4939	5323	5393	3596
1933 FED FIRM SURPLUS/DEFICIT	5353	6075	4566	3562	2958	4552	5493	5103	5541	5332	3732
1934 FED FIRM SURPLUS/DEFICIT	8489	7587	4410	3935	6041	6157	5511	5160	5649	5661	3930
1935 FED FIRM SURPLUS/DEFICIT	4277	4161	4601	3256	2833	4254	5447	5745	4207	4526	3991
1936 FED FIRM SURPLUS/DEFICIT	7277	3942	4585	3689	3726	4594	5092	3482	5308	5679	4087
1937 FED FIRM SURPLUS/DEFICIT	3984	3804	4094	3803	3852	4238	1021	1721	1685	3183	3383
1938 FED FIRM SURPLUS/DEFICIT	2959	3172	2997	1897	348	2967	5485	5079	5662	5503	3655
1939 FED FIRM SURPLUS/DEFICIT	3482	3386	4536	3864	3538	4095	3762	89	5885	6503	4604
1940 FED FIRM SURPLUS/DEFICIT	4975	3965	4420	3988	3922	4323	4243	603	6073	7317	5380
1941 FED FIRM SURPLUS/DEFICIT	4607	3962	3108	2456	2894	3772	2023	2121	1765	5315	4024
1942 FED FIRM SURPLUS/DEFICIT	5527	5449	2987	2175	3128	6094	5458	5744	3868	6273	3964
1943 FED FIRM SURPLUS/DEFICIT	6436	4511	4607	3839	3248	4345	5491	5173	5649	5671	3871
1944 FED FIRM SURPLUS/DEFICIT	6781	3658	4182	3597	3639	4235	1196	511	522	3397	3489
1945 FED FIRM SURPLUS/DEFICIT	3241	3086	3051	1949	1743	2968	2348	866	1986	4343	2622
1946 FED FIRM SURPLUS/DEFICIT	2974	3023	3055	1961	1891	2659	5524	5166	5686	5389	3809
1947 FED FIRM SURPLUS/DEFICIT	6613	4312	4544	3726	3092	6063	5520	5206	5743	5606	3938
1948 FED FIRM SURPLUS/DEFICIT	5274	3349	4324	5993	4855	5866	5518	5162	5579	5547	3553
1949 FED FIRM SURPLUS/DEFICIT	8181	7642	4591	3619	3474	4532	5495	5359	5924	5943	4099
1950 FED FIRM SURPLUS/DEFICIT	2979	3026	3040	1957	1547	4386	5515	5140	5607	5574	3739
1951 FED FIRM SURPLUS/DEFICIT	8369	6913	4308	4698	5489	6209	5531	5183	5651	5633	3834
1952 FED FIRM SURPLUS/DEFICIT	8441	4934	3913	5542	3147	5749	5492	5296	5826	5859	4058
1953 FED FIRM SURPLUS/DEFICIT	5891	3023	4230	3639	3805	4497	5546	5232	4875	5071	3634
1954 FED FIRM SURPLUS/DEFICIT	6298	5444	4234	3696	3032	4371	5522	5166	5573	5529	3706
1955 FED FIRM SURPLUS/DEFICIT	8578	9036	6590	3609	3676	5363	5502	5569	5058	6128	2717
1956 FED FIRM SURPLUS/DEFICIT	7410	3645	4044	2540	4354	6202	5529	5150	5581	5529	3578
1957 FED FIRM SURPLUS/DEFICIT	7054	5764	3045	2288	2369	5786	5501	5315	5886	5896	4081

1958 FED FIRM SURPLUS/DEFICIT	3209	3023	4136	3664	3424	4171	5520	5347	5927	5672	3
1959 FED FIRM SURPLUS/DEFICIT	3500	3665	4160	3507	2998	5443	5541	5149	5562	5560	3
1960 FED FIRM SURPLUS/DEFICIT	7157	5544	7772	7833	6323	6026	5502	5245	5810	5879	3
1961 FED FIRM SURPLUS/DEFICIT	6412	3073	4329	3974	2784	4305	5502	5176	5635	5639	3
1962 FED FIRM SURPLUS/DEFICIT	3575	4549	4304	3629	3338	3920	5488	5538	6167	6323	4
1963 FED FIRM SURPLUS/DEFICIT	6064	4779	4165	3896	2792	5973	5508	5734	5603	6260	2
1964 FED FIRM SURPLUS/DEFICIT	5713	4605	4638	3575	3052	4188	5526	5199	5689	5680	3
1965 FED FIRM SURPLUS/DEFICIT	7474	5300	4178	4004	3681	6197	5530	5234	5701	5657	3
1966 FED FIRM SURPLUS/DEFICIT	8260	7523	4459	3783	3664	4960	5503	5789	5964	6251	3
1967 FED FIRM SURPLUS/DEFICIT	6547	3733	4260	3534	3406	3947	5524	5153	5618	5586	2
1968 FED FIRM SURPLUS/DEFICIT	8025	5422	4422	3139	3046	4631	5533	5447	6218	5340	2
1969 FED FIRM SURPLUS/DEFICIT	3673	5921	6035	5331	5119	5937	5517	5113	5606	5651	3
1970 FED FIRM SURPLUS/DEFICIT	3835	3010	3051	3010	2896	3978	5492	5999	6686	6483	3
1971 FED FIRM SURPLUS/DEFICIT	2983	3022	3150	2711	2918	4254	5511	5061	5551	5357	3
1972 FED FIRM SURPLUS/DEFICIT	8627	5660	3075	2648	2428	5395	5515	5075	5640	5715	3
1973 FED FIRM SURPLUS/DEFICIT	8609	7941	3073	3233	3189	5245	5200	4107	1978	1634	1
1974 FED FIRM SURPLUS/DEFICIT	2978	3021	3058	1956	1084	6041	5531	5427	5673	5502	3
1975 FED FIRM SURPLUS/DEFICIT	8633	7094	3303	3171	3141	3541	5519	5253	5822	4537	3
1976 FED FIRM SURPLUS/DEFICIT	4687	5701	3070	3693	4835	6179	5542	5121	5590	5607	3
1977 FED FIRM SURPLUS/DEFICIT	8597	9130	7531	3642	3436	4541	2302	375	1261	3268	3
1978 FED FIRM SURPLUS/DEFICIT	3107	3215	2971	1867	1946	3810	5459	5002	5632	5520	3

*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1
*Less cold weather adjustment					-1400	-1500	-1500	-1500	-1500	-1100	-1
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-1
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .81	665	665	665	665	665	665	665	665	665	665	

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FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	
<i>ADJUSTED</i>	1-15	16-31								1-15	1
1929 FED FIRM SURPLUS/DEFICIT	6579	3644	3406	4340	2652	3106	146	-246	1023	-425	1
1930 FED FIRM SURPLUS/DEFICIT	3457	3500	2510	3008	2210	2134	-136	-1425	679	326	1
1931 FED FIRM SURPLUS/DEFICIT	5602	4315	2477	3151	2113	2637	-198	-1720	3	2097	1
1932 FED FIRM SURPLUS/DEFICIT	2642	3271	2409	2655	970	1618	2840	3704	4588	2858	1
1933 FED FIRM SURPLUS/DEFICIT	5118	5840	4031	4377	2423	3417	4108	3868	4806	2797	1
1934 FED FIRM SURPLUS/DEFICIT	8254	7352	3875	4750	5506	5022	4126	3925	4914	3126	1
1935 FED FIRM SURPLUS/DEFICIT	4042	3926	4066	4071	2298	3119	4062	4510	3472	1991	2
1936 FED FIRM SURPLUS/DEFICIT	7042	3707	4050	4504	3191	3459	3707	2247	4573	3144	2
1937 FED FIRM SURPLUS/DEFICIT	3749	3569	3559	4618	3317	3103	-364	486	950	648	1
1938 FED FIRM SURPLUS/DEFICIT	2724	2937	2462	2712	-187	1832	4100	3844	4927	2968	1
1939 FED FIRM SURPLUS/DEFICIT	3247	3151	4001	4679	3003	2960	2377	-1146	5150	3968	2
1940 FED FIRM SURPLUS/DEFICIT	4740	3730	3885	4803	3387	3188	2858	-632	5338	4782	3
1941 FED FIRM SURPLUS/DEFICIT	4372	3727	2573	3271	2359	2637	638	886	1030	2780	2
1942 FED FIRM SURPLUS/DEFICIT	5292	5214	2452	2990	2593	4959	4073	4509	3133	3738	2
1943 FED FIRM SURPLUS/DEFICIT	6201	4276	4072	4654	2713	3210	4106	3938	4914	3136	1

1944 FED FIRM SURPLUS/DEFICIT	6546	3423	3647	4412	3104	3100	-189	-724	-213	862	1554
1945 FED FIRM SURPLUS/DEFICIT	3006	2851	2516	2764	1208	1833	963	-369	1251	1808	687
1946 FED FIRM SURPLUS/DEFICIT	2739	2788	2520	2776	1356	1524	4139	3931	4951	2854	1874
1947 FED FIRM SURPLUS/DEFICIT	6378	4077	4009	4541	2557	4928	4135	3971	5008	3071	2003
1948 FED FIRM SURPLUS/DEFICIT	5039	3114	3789	6808	4320	4731	4133	3927	4844	3012	1618
1949 FED FIRM SURPLUS/DEFICIT	7946	7407	4056	4434	2939	3397	4110	4124	5189	3408	2164
1950 FED FIRM SURPLUS/DEFICIT	2744	2791	2505	2772	1012	3251	4130	3905	4872	3039	1804
1951 FED FIRM SURPLUS/DEFICIT	8134	6678	3773	5513	4954	5074	4146	3948	4916	3098	1899
1952 FED FIRM SURPLUS/DEFICIT	8206	4699	3378	6357	2612	4614	4107	4061	5091	3324	2123
1953 FED FIRM SURPLUS/DEFICIT	5656	2788	3695	4454	3270	3362	4161	3997	4140	2536	1699
1954 FED FIRM SURPLUS/DEFICIT	6063	5209	3699	4511	2497	3236	4137	3931	4838	2994	1771
1955 FED FIRM SURPLUS/DEFICIT	8343	8801	6055	4424	3141	4228	4117	4334	4323	3593	782
1956 FED FIRM SURPLUS/DEFICIT	7175	3410	3509	3355	3819	5067	4144	3915	4846	2994	1643
1957 FED FIRM SURPLUS/DEFICIT	6819	5529	2510	3103	1834	4651	4116	4080	5151	3361	2146
1958 FED FIRM SURPLUS/DEFICIT	2974	2788	3601	4479	2889	3036	4135	4112	5192	3137	1897
1959 FED FIRM SURPLUS/DEFICIT	3265	3430	3625	4322	2463	4308	4156	3914	4827	3025	1842
1960 FED FIRM SURPLUS/DEFICIT	6922	5309	7237	8648	5788	4891	4117	4010	5075	3344	1829
1961 FED FIRM SURPLUS/DEFICIT	6177	2838	3794	4789	2249	3170	4117	3941	4900	3104	1906
1962 FED FIRM SURPLUS/DEFICIT	3340	4314	3769	4444	2803	2785	4103	4303	5432	3788	2254
1963 FED FIRM SURPLUS/DEFICIT	5829	4544	3630	4711	2257	4838	4123	4499	4868	3725	1012
1964 FED FIRM SURPLUS/DEFICIT	5478	4370	4103	4390	2517	3053	4141	3964	4954	3145	1109
1965 FED FIRM SURPLUS/DEFICIT	7239	5065	3643	4819	3146	5062	4145	3999	4966	3122	1921
1966 FED FIRM SURPLUS/DEFICIT	8025	7288	3924	4598	3129	3825	4118	4554	5229	3716	1914
1967 FED FIRM SURPLUS/DEFICIT	6312	3498	3725	4349	2871	2812	4139	3918	4883	3051	542
1968 FED FIRM SURPLUS/DEFICIT	7790	5187	3887	3954	2511	3496	4148	4212	5483	2805	698
1969 FED FIRM SURPLUS/DEFICIT	3438	5686	5500	6146	4584	4802	4132	3878	4871	3116	1963
1970 FED FIRM SURPLUS/DEFICIT	3600	2775	2516	3825	2361	2843	4107	4764	5951	3948	1204
1971 FED FIRM SURPLUS/DEFICIT	2748	2787	2615	3526	2383	3119	4126	3826	4816	2822	1701
1972 FED FIRM SURPLUS/DEFICIT	8392	5425	2540	3463	1893	4260	4130	3840	4905	3180	1649
1973 FED FIRM SURPLUS/DEFICIT	8374	7706	2538	4048	2654	4110	3815	2872	1243	-901	-113
1974 FED FIRM SURPLUS/DEFICIT	2743	2786	2523	2771	549	4906	4146	4192	4938	2967	1553
1975 FED FIRM SURPLUS/DEFICIT	8398	6859	2768	3986	2606	2406	4134	4018	5087	2002	1811
1976 FED FIRM SURPLUS/DEFICIT	4452	5466	2535	4508	4300	5044	4157	3886	4855	3072	1865
1977 FED FIRM SURPLUS/DEFICIT	8362	8895	6996	4457	2901	3406	917	-860	526	733	1749
1978 FED FIRM SURPLUS/DEFICIT	2872	2980	2436	2682	1411	2675	4074	3767	4897	2985	1805

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FORECAST

PEAK IN MEGAWATTS

UNADJUSTED

	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR
	1-15	16-31								1-15	16-30
1929 FED FIRM SURPLUS/DEFICIT	7254	4319	4373	4215	3280	4337	1570	1031	2090	2176	3280
1930 FED FIRM SURPLUS/DEFICIT	4132	4174	3477	2884	2839	3365	1288	-148	1746	2927	3182
1931 FED FIRM SURPLUS/DEFICIT	6277	4989	3444	3026	2742	3867	1226	-443	1069	4698	2408
1932 FED FIRM SURPLUS/DEFICIT	3316	3946	3376	2530	1599	2848	4265	4982	5654	5460	3662
1933 FED FIRM SURPLUS/DEFICIT	5792	6514	4999	4252	3051	4647	5532	5144	5872	5398	3798
1934 FED FIRM SURPLUS/DEFICIT	8929	8026	4843	4625	6135	6252	5550	5202	5981	5727	3996
1935 FED FIRM SURPLUS/DEFICIT	4717	4600	5033	3947	2927	4349	5486	5786	4539	4592	4057
1936 FED FIRM SURPLUS/DEFICIT	7716	4381	5017	4379	3820	4690	5131	3524	5639	5745	4153

1937 FED FIRM SURPLUS/DEFICIT	4424	4244	4526	4493	3945	4333	1060	1763	2017	3249	3
1938 FED FIRM SURPLUS/DEFICIT	3398	3612	3429	2587	442	3062	5524	5121	5993	5569	3
1939 FED FIRM SURPLUS/DEFICIT	3921	3826	4968	4554	3632	4190	3801	130	6217	6569	4
1940 FED FIRM SURPLUS/DEFICIT	5414	4405	4853	4678	4015	4419	4283	645	6405	7383	5
1941 FED FIRM SURPLUS/DEFICIT	5046	4401	3541	3146	2987	3867	2062	2163	2097	5381	4
1942 FED FIRM SURPLUS/DEFICIT	5967	5889	3419	2865	3222	6189	5497	5786	4200	6339	4
1943 FED FIRM SURPLUS/DEFICIT	6876	4951	5039	4529	3342	4440	5530	5214	5981	5737	3
1944 FED FIRM SURPLUS/DEFICIT	7221	4098	4615	4288	3732	4330	1235	553	854	3463	3
1945 FED FIRM SURPLUS/DEFICIT	3681	3525	3483	2639	1837	3063	2387	908	2317	4409	2
1946 FED FIRM SURPLUS/DEFICIT	3413	3463	3487	2651	1984	2754	5563	5208	6018	5455	3
1947 FED FIRM SURPLUS/DEFICIT	7053	4752	4977	4417	3186	6158	5559	5248	6074	5672	4
1948 FED FIRM SURPLUS/DEFICIT	5713	3789	4757	6683	4949	5961	5557	5204	5911	5613	3
1949 FED FIRM SURPLUS/DEFICIT	8621	8081	5024	4309	3568	4627	5535	5401	6256	6009	4
1950 FED FIRM SURPLUS/DEFICIT	3418	3466	3472	2647	1641	4481	5554	5182	5938	5640	3
1951 FED FIRM SURPLUS/DEFICIT	8808	7353	4740	5388	5583	6304	5570	5225	5982	5699	3
1952 FED FIRM SURPLUS/DEFICIT	8881	5374	4346	6232	3241	5844	5531	5338	6158	5925	4
1953 FED FIRM SURPLUS/DEFICIT	6331	3463	4662	4329	3899	4593	5586	5274	5206	5137	3
1954 FED FIRM SURPLUS/DEFICIT	6738	5884	4666	4386	3126	4466	5561	5207	5904	5595	3
1955 FED FIRM SURPLUS/DEFICIT	9018	9476	7022	4299	3769	5458	5541	5610	5390	6194	2
1956 FED FIRM SURPLUS/DEFICIT	7850	4084	4476	3230	4448	6297	5568	5192	5912	5595	3
1957 FED FIRM SURPLUS/DEFICIT	7494	6204	3477	2979	2463	5881	5540	5357	6218	5962	4
1958 FED FIRM SURPLUS/DEFICIT	3649	3463	4569	4354	3518	4267	5560	5389	6258	5739	3
1959 FED FIRM SURPLUS/DEFICIT	3939	4104	4592	4197	3092	5538	5580	5190	5894	5625	3
1960 FED FIRM SURPLUS/DEFICIT	7597	5984	8204	8523	6417	6121	5541	5287	6141	5945	3
1961 FED FIRM SURPLUS/DEFICIT	6852	3512	4761	4665	2878	4400	5541	5218	5967	5705	3
1962 FED FIRM SURPLUS/DEFICIT	4015	4988	4736	4320	3432	4016	5527	5580	6499	6389	4
1963 FED FIRM SURPLUS/DEFICIT	6503	5219	4597	4586	2886	6069	5548	5775	5934	6326	3
1964 FED FIRM SURPLUS/DEFICIT	6153	5045	5071	4266	3146	4283	5565	5241	6020	5746	3
1965 FED FIRM SURPLUS/DEFICIT	7914	5740	4611	4694	3775	6292	5569	5276	6032	5723	3
1966 FED FIRM SURPLUS/DEFICIT	8700	7963	4891	4474	3757	5055	5542	5832	6295	6317	3
1967 FED FIRM SURPLUS/DEFICIT	6987	4172	4693	4224	3500	4042	5564	5194	5950	5652	2
1968 FED FIRM SURPLUS/DEFICIT	8465	5862	4854	3829	3139	4726	5572	5488	6549	5406	2
1969 FED FIRM SURPLUS/DEFICIT	4113	6361	6468	6021	5213	6032	5556	5154	5937	5717	3
1970 FED FIRM SURPLUS/DEFICIT	4274	3450	3484	3700	2990	4073	5531	6041	7017	6549	3
1971 FED FIRM SURPLUS/DEFICIT	3422	3462	3583	3401	3011	4349	5550	5103	5883	5423	3
1972 FED FIRM SURPLUS/DEFICIT	9067	6099	3507	3338	2522	5490	5554	5117	5971	5781	3
1973 FED FIRM SURPLUS/DEFICIT	9049	8381	3505	3923	3283	5340	5240	4149	2310	1700	1
1974 FED FIRM SURPLUS/DEFICIT	3417	3461	3490	2646	1178	6136	5570	5468	6004	5568	3
1975 FED FIRM SURPLUS/DEFICIT	9073	7534	3735	3861	3234	3636	5558	5295	6153	4603	3
1976 FED FIRM SURPLUS/DEFICIT	5127	6140	3502	4383	4929	6274	5581	5162	5921	5673	3
1977 FED FIRM SURPLUS/DEFICIT	9037	9569	7963	4332	3529	4636	2341	416	1593	3334	3
1978 FED FIRM SURPLUS/DEFICIT	3547	3655	3403	2557	2039	3905	5498	5044	5964	5586	3
*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-1
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .81	665	665	665	665	665	665	665	665	665	665	

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RUN

OPERATING YEAR
DATE: 03/05/93 MEDIUM LOAD
FORECAST

PEAK IN MEGAWATTS ADJUSTED	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30
1929 FED FIRM SURPLUS/DEFICIT	7019	4084	3838	5030	2745	3202	185	-204	1355	-359	1345
1930 FED FIRM SURPLUS/DEFICIT	3897	3939	2942	3699	2304	2230	-97	-1383	1011	392	1247
1931 FED FIRM SURPLUS/DEFICIT	6042	4754	2909	3841	2207	2732	-159	-1678	334	2163	473
1932 FED FIRM SURPLUS/DEFICIT	3081	3711	2841	3345	1064	1713	2880	3747	4919	2925	1727
1933 FED FIRM SURPLUS/DEFICIT	5557	6279	4464	5067	2516	3512	4147	3909	5137	2863	1863
1934 FED FIRM SURPLUS/DEFICIT	8694	7791	4308	5440	5600	5117	4165	3967	5246	3192	2061
1935 FED FIRM SURPLUS/DEFICIT	4482	4365	4498	4762	2392	3214	4101	4551	3804	2057	2122
1936 FED FIRM SURPLUS/DEFICIT	7481	4146	4482	5194	3285	3555	3746	2289	4904	3210	2218
1937 FED FIRM SURPLUS/DEFICIT	4189	4009	3991	5308	3410	3198	-325	528	1282	714	1514
1938 FED FIRM SURPLUS/DEFICIT	3163	3377	2894	3402	-93	1927	4139	3886	5258	3034	1786
1939 FED FIRM SURPLUS/DEFICIT	3686	3591	4433	5369	3097	3055	2416	-1105	5482	4034	2735
1940 FED FIRM SURPLUS/DEFICIT	5179	4170	4318	5493	3480	3284	2898	-590	5670	4848	3511
1941 FED FIRM SURPLUS/DEFICIT	4811	4166	3006	3961	2452	2732	677	928	1362	2846	2155
1942 FED FIRM SURPLUS/DEFICIT	5732	5654	2884	3680	2687	5054	4112	4551	3465	3804	2095
1943 FED FIRM SURPLUS/DEFICIT	6641	4716	4504	5344	2807	3305	4145	3979	5246	3202	2002
1944 FED FIRM SURPLUS/DEFICIT	6986	3863	4080	5103	3197	3195	-150	-682	119	928	1620
1945 FED FIRM SURPLUS/DEFICIT	3446	3290	2948	3454	1302	1928	1002	-327	1582	1874	753
1946 FED FIRM SURPLUS/DEFICIT	3178	3228	2952	3466	1449	1619	4178	3973	5283	2920	1940
1947 FED FIRM SURPLUS/DEFICIT	6818	4517	4442	5232	2651	5023	4174	4013	5339	3137	2069
1948 FED FIRM SURPLUS/DEFICIT	5478	3554	4222	7498	4414	4826	4172	3969	5176	3078	1684
1949 FED FIRM SURPLUS/DEFICIT	8386	7846	4489	5124	3033	3492	4150	4166	5521	3474	2230
1950 FED FIRM SURPLUS/DEFICIT	3183	3231	2937	3462	1106	3346	4169	3947	5203	3105	1870
1951 FED FIRM SURPLUS/DEFICIT	8573	7118	4205	6203	5048	5169	4185	3990	5247	3164	1965
1952 FED FIRM SURPLUS/DEFICIT	8646	5139	3811	7047	2706	4709	4146	4103	5423	3390	2189
1953 FED FIRM SURPLUS/DEFICIT	6096	3228	4127	5144	3364	3458	4201	4039	4471	2602	1765
1954 FED FIRM SURPLUS/DEFICIT	6503	5649	4131	5201	2591	3331	4176	3972	5169	3060	1837
1955 FED FIRM SURPLUS/DEFICIT	8783	9241	6487	5114	3234	4323	4156	4375	4655	3659	848
1956 FED FIRM SURPLUS/DEFICIT	7615	3849	3941	4045	3913	5162	4183	3957	5177	3060	1709
1957 FED FIRM SURPLUS/DEFICIT	7259	5969	2942	3794	1928	4746	4155	4122	5483	3427	2212
1958 FED FIRM SURPLUS/DEFICIT	3414	3228	4034	5169	2983	3132	4175	4154	5523	3204	1963
1959 FED FIRM SURPLUS/DEFICIT	3704	3869	4057	5012	2557	4403	4195	3955	5159	3090	1908
1960 FED FIRM SURPLUS/DEFICIT	7362	5749	7669	9338	5882	4986	4156	4052	5406	3410	1895
1961 FED FIRM SURPLUS/DEFICIT	6617	3277	4226	5480	2343	3265	4156	3983	5232	3170	1972
1962 FED FIRM SURPLUS/DEFICIT	3780	4753	4201	5135	2897	2881	4142	4345	5764	3854	2320
1963 FED FIRM SURPLUS/DEFICIT	6268	4984	4062	5401	2351	4934	4163	4540	5199	3791	1078
1964 FED FIRM SURPLUS/DEFICIT	5918	4810	4536	5081	2611	3148	4180	4006	5285	3211	1175
1965 FED FIRM SURPLUS/DEFICIT	7679	5505	4076	5509	3240	5157	4184	4041	5297	3188	1987
1966 FED FIRM SURPLUS/DEFICIT	8465	7728	4356	5289	3222	3920	4157	4597	5560	3782	1980
1967 FED FIRM SURPLUS/DEFICIT	6752	3937	4158	5039	2965	2907	4179	3959	5215	3117	608
1968 FED FIRM SURPLUS/DEFICIT	8230	5627	4319	4644	2604	3591	4187	4253	5814	2871	764
1969 FED FIRM SURPLUS/DEFICIT	3878	6126	5933	6836	4678	4897	4171	3919	5202	3182	2029
1970 FED FIRM SURPLUS/DEFICIT	4039	3215	2949	4515	2455	2938	4146	4806	6282	4014	1270
1971 FED FIRM SURPLUS/DEFICIT	3187	3227	3048	4216	2476	3214	4165	3868	5148	2888	1767
1972 FED FIRM SURPLUS/DEFICIT	8832	5864	2972	4153	1987	4355	4169	3882	5236	3246	1715
1973 FED FIRM SURPLUS/DEFICIT	8814	8146	2970	4738	2748	4205	3855	2914	1575	-835	-47

1974 FED FIRM SURPLUS/DEFICIT	3182	3226	2955	3461	643	5001	4185	4233	5269	3033	1
1975 FED FIRM SURPLUS/DEFICIT	8838	7299	3200	4676	2699	2501	4173	4060	5418	2068	1
1976 FED FIRM SURPLUS/DEFICIT	4892	5905	2967	5198	4394	5139	4196	3927	5186	3138	1
1977 FED FIRM SURPLUS/DEFICIT	8802	9334	7428	5147	2994	3501	956	-819	858	799	1
1978 FED FIRM SURPLUS/DEFICIT	3312	3420	2868	3372	1504	2770	4113	3809	5229	3051	1

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OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	
UNADJUSTED	1-15	16-31								1-15	16-31
1929 FED FIRM SURPLUS/DEFICIT	7185	4250	4304	4137	3156	4210	1430	903	1977	1708	2
1930 FED FIRM SURPLUS/DEFICIT	4063	4105	3408	2806	2714	3238	1148	-275	1634	2459	2
1931 FED FIRM SURPLUS/DEFICIT	6208	4920	3375	2948	2617	3740	1086	-570	957	4230	1
1932 FED FIRM SURPLUS/DEFICIT	3247	3877	3307	2453	1474	2721	4124	4855	5542	4991	3
1933 FED FIRM SURPLUS/DEFICIT	5723	6445	4929	4174	2927	4521	5392	5017	5760	4930	3
1934 FED FIRM SURPLUS/DEFICIT	8860	7958	4773	4547	6010	6125	5410	5075	5869	5259	3
1935 FED FIRM SURPLUS/DEFICIT	4648	4531	4964	3869	2802	4222	5346	5659	4427	4124	3
1936 FED FIRM SURPLUS/DEFICIT	7648	4313	4948	4301	3695	4563	4991	3397	5527	5277	3
1937 FED FIRM SURPLUS/DEFICIT	4355	4175	4457	4415	3820	4206	920	1636	1905	2781	2
1938 FED FIRM SURPLUS/DEFICIT	3329	3543	3360	2510	317	2935	5384	4993	5881	5101	3
1939 FED FIRM SURPLUS/DEFICIT	3852	3757	4899	4476	3507	4063	3661	3	6105	6101	4
1940 FED FIRM SURPLUS/DEFICIT	5345	4336	4783	4600	3891	4292	4142	518	6293	6915	4
1941 FED FIRM SURPLUS/DEFICIT	4978	4333	3471	3068	2862	3740	1922	2035	1985	4912	3
1942 FED FIRM SURPLUS/DEFICIT	5898	5820	3350	2788	3097	6062	5357	5659	4088	5871	3
1943 FED FIRM SURPLUS/DEFICIT	6807	4882	4970	4452	3217	4313	5390	5087	5869	5269	3
1944 FED FIRM SURPLUS/DEFICIT	7152	4029	4545	4210	3608	4203	1095	426	742	2995	3
1945 FED FIRM SURPLUS/DEFICIT	3612	3456	3414	2562	1712	2936	2247	781	2205	3941	2
1946 FED FIRM SURPLUS/DEFICIT	3344	3394	3418	2574	1860	2627	5423	5080	5905	4987	3
1947 FED FIRM SURPLUS/DEFICIT	6984	4683	4907	4339	3061	6031	5419	5121	5962	5204	3
1948 FED FIRM SURPLUS/DEFICIT	5645	3720	4687	6605	4824	5834	5417	5077	5799	5145	3
1949 FED FIRM SURPLUS/DEFICIT	8552	8013	4954	4232	3443	4500	5394	5273	6143	5541	3
1950 FED FIRM SURPLUS/DEFICIT	3349	3397	3403	2570	1516	4354	5414	5054	5826	5172	3
1951 FED FIRM SURPLUS/DEFICIT	8739	7284	4671	5310	5458	6177	5430	5098	5870	5231	3
1952 FED FIRM SURPLUS/DEFICIT	8812	5305	4276	6154	3116	5717	5391	5209	6045	5457	3
1953 FED FIRM SURPLUS/DEFICIT	6262	3394	4593	4252	3774	4466	5445	5146	5094	4669	3
1954 FED FIRM SURPLUS/DEFICIT	6669	5815	4597	4308	3001	4339	5421	5080	5792	5127	3
1955 FED FIRM SURPLUS/DEFICIT	8949	9407	6953	4222	3644	5331	5401	5483	5277	5726	2
1956 FED FIRM SURPLUS/DEFICIT	7781	4015	4407	3152	4323	6170	5428	5065	5800	5127	3
1957 FED FIRM SURPLUS/DEFICIT	7425	6135	3408	2901	2338	5754	5400	5230	6106	5494	3
1958 FED FIRM SURPLUS/DEFICIT	3580	3394	4499	4277	3393	4140	5419	5262	6146	5270	3
1959 FED FIRM SURPLUS/DEFICIT	3871	4035	4523	4120	2967	5411	5440	5063	5781	5156	3
1960 FED FIRM SURPLUS/DEFICIT	7528	5915	8135	8445	6292	5994	5401	5160	6029	5476	3
1961 FED FIRM SURPLUS/DEFICIT	6783	3444	4692	4587	2753	4273	5401	5091	5855	5237	3
1962 FED FIRM SURPLUS/DEFICIT	3946	4919	4667	4242	3307	3889	5387	5453	6387	5921	3
1963 FED FIRM SURPLUS/DEFICIT	6435	5150	4528	4508	2761	5942	5407	5648	5822	5857	2
1964 FED FIRM SURPLUS/DEFICIT	6084	4976	5001	4188	3021	4157	5425	5114	5908	5278	2
1965 FED FIRM SURPLUS/DEFICIT	7845	5671	4541	4616	3650	6165	5429	5149	5920	5255	3

1966 FED FIRM SURPLUS/DEFICIT	8631	7894	4822	4396	3633	4928	5402	5704	6183	5849	3447
1967 FED FIRM SURPLUS/DEFICIT	6918	4104	4623	4147	3375	3915	5423	5067	5838	5184	2075
1968 FED FIRM SURPLUS/DEFICIT	8396	5793	4785	3751	3014	4599	5432	5361	6437	4938	2231
1969 FED FIRM SURPLUS/DEFICIT	4044	6292	6398	5944	5088	5905	5416	5027	5825	5250	3496
1970 FED FIRM SURPLUS/DEFICIT	4205	3381	3414	3623	2865	3946	5390	5914	6905	6081	2737
1971 FED FIRM SURPLUS/DEFICIT	3353	3393	3513	3323	2886	4222	5410	4976	5771	4955	3234
1972 FED FIRM SURPLUS/DEFICIT	8998	6031	3438	3260	2397	5363	5414	4990	5859	5313	3182
1973 FED FIRM SURPLUS/DEFICIT	8980	8312	3436	3846	3158	5213	5099	4021	2198	1232	1419
1974 FED FIRM SURPLUS/DEFICIT	3348	3392	3421	2569	1053	6009	5430	5341	5892	5100	3086
1975 FED FIRM SURPLUS/DEFICIT	9004	7465	3666	3783	3110	3509	5418	5168	6041	4134	3344
1976 FED FIRM SURPLUS/DEFICIT	5058	6072	3433	4305	4804	6147	5441	5035	5809	5205	3397
1977 FED FIRM SURPLUS/DEFICIT	8968	9500	7894	4255	3405	4509	2201	289	1481	2866	3282
1978 FED FIRM SURPLUS/DEFICIT	3478	3586	3334	2480	1914	3778	5358	4917	5851	5118	3338

*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2800
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .83	735	735	735	735	735	735	735	735	735	735	735

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RUN

OPERATING YEAR

DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS ADJUSTED	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30
1929 FED FIRM SURPLUS/DEFICIT	7020	4085	3839	5022	2691	3145	115	-262	1312	-757	946
1930 FED FIRM SURPLUS/DEFICIT	3898	3940	2943	3691	2249	2173	-167	-1440	969	-6	849
1931 FED FIRM SURPLUS/DEFICIT	6043	4755	2910	3833	2152	2675	-229	-1735	292	1765	74
1932 FED FIRM SURPLUS/DEFICIT	3082	3712	2842	3338	1009	1656	2809	3690	4877	2526	1329
1933 FED FIRM SURPLUS/DEFICIT	5558	6280	4464	5059	2462	3456	4077	3852	5095	2465	1465
1934 FED FIRM SURPLUS/DEFICIT	8695	7793	4308	5432	5545	5060	4095	3910	5204	2794	1663
1935 FED FIRM SURPLUS/DEFICIT	4483	4366	4499	4754	2337	3157	4031	4494	3762	1659	1723
1936 FED FIRM SURPLUS/DEFICIT	7483	4148	4483	5186	3230	3498	3676	2232	4862	2812	1820
1937 FED FIRM SURPLUS/DEFICIT	4190	4010	3992	5300	3355	3141	-395	471	1240	316	1116
1938 FED FIRM SURPLUS/DEFICIT	3164	3378	2895	3395	-148	1870	4069	3828	5216	2636	1388
1939 FED FIRM SURPLUS/DEFICIT	3687	3592	4434	5361	3042	2998	2346	-1162	5440	3636	2336
1940 FED FIRM SURPLUS/DEFICIT	5180	4171	4318	5485	3426	3227	2827	-647	5628	4450	3113
1941 FED FIRM SURPLUS/DEFICIT	4813	4168	3006	3953	2397	2675	607	870	1320	2447	1757
1942 FED FIRM SURPLUS/DEFICIT	5733	5655	2885	3673	2632	4997	4042	4494	3423	3406	1697
1943 FED FIRM SURPLUS/DEFICIT	6642	4717	4505	5337	2752	3248	4075	3922	5204	2804	1604
1944 FED FIRM SURPLUS/DEFICIT	6987	3864	4080	5095	3143	3138	-220	-739	77	530	1222
1945 FED FIRM SURPLUS/DEFICIT	3447	3291	2949	3447	1247	1871	932	-384	1540	1476	355
1946 FED FIRM SURPLUS/DEFICIT	3179	3229	2953	3459	1395	1562	4108	3915	5240	2522	1542
1947 FED FIRM SURPLUS/DEFICIT	6819	4518	4442	5224	2596	4966	4104	3956	5297	2739	1671
1948 FED FIRM SURPLUS/DEFICIT	5480	3555	4222	7490	4359	4769	4102	3912	5134	2680	1285
1949 FED FIRM SURPLUS/DEFICIT	8387	7848	4489	5117	2978	3435	4079	4108	5478	3076	1832
1950 FED FIRM SURPLUS/DEFICIT	3184	3232	2938	3455	1051	3289	4099	3889	5161	2707	1472
1951 FED FIRM SURPLUS/DEFICIT	8574	7119	4206	6195	4993	5112	4115	3933	5205	2766	1566
1952 FED FIRM SURPLUS/DEFICIT	8647	5140	3811	7039	2651	4652	4076	4044	5380	2992	1791

1953 FED FIRM SURPLUS/DEFICIT	6097	3229	4128	5137	3309	3401	4130	3981	4429	2204	1
1954 FED FIRM SURPLUS/DEFICIT	6504	5650	4132	5193	2536	3274	4106	3915	5127	2662	1
1955 FED FIRM SURPLUS/DEFICIT	8784	9242	6488	5107	3179	4266	4086	4318	4612	3261	1
1956 FED FIRM SURPLUS/DEFICIT	7616	3850	3942	4037	3858	5105	4113	3900	5135	2662	1
1957 FED FIRM SURPLUS/DEFICIT	7260	5970	2943	3786	1873	4689	4085	4065	5441	3029	1
1958 FED FIRM SURPLUS/DEFICIT	3415	3229	4034	5162	2928	3075	4104	4097	5481	2805	1
1959 FED FIRM SURPLUS/DEFICIT	3706	3870	4058	5005	2502	4346	4125	3898	5116	2691	1
1960 FED FIRM SURPLUS/DEFICIT	7363	5750	7670	9330	5827	4929	4086	3995	5364	3011	1
1961 FED FIRM SURPLUS/DEFICIT	6618	3279	4227	5472	2288	3208	4086	3926	5190	2772	1
1962 FED FIRM SURPLUS/DEFICIT	3781	4754	4202	5127	2842	2824	4072	4288	5722	3456	1
1963 FED FIRM SURPLUS/DEFICIT	6270	4985	4063	5393	2296	4877	4092	4483	5157	3392	1
1964 FED FIRM SURPLUS/DEFICIT	5919	4811	4536	5073	2556	3092	4110	3949	5243	2813	1
1965 FED FIRM SURPLUS/DEFICIT	7680	5506	4076	5501	3185	5100	4114	3984	5255	2790	1
1966 FED FIRM SURPLUS/DEFICIT	8466	7729	4357	5281	3168	3863	4087	4539	5518	3384	1
1967 FED FIRM SURPLUS/DEFICIT	6753	3939	4158	5032	2910	2850	4108	3902	5173	2719	1
1968 FED FIRM SURPLUS/DEFICIT	8231	5628	4320	4636	2549	3534	4117	4196	5772	2473	1
1969 FED FIRM SURPLUS/DEFICIT	3879	6127	5933	6829	4623	4840	4101	3862	5160	2785	1
1970 FED FIRM SURPLUS/DEFICIT	4040	3216	2949	4508	2400	2881	4075	4749	6240	3616	1
1971 FED FIRM SURPLUS/DEFICIT	3188	3228	3048	4208	2421	3157	4095	3811	5106	2490	1
1972 FED FIRM SURPLUS/DEFICIT	8833	5866	2973	4145	1932	4298	4099	3825	5194	2848	1
1973 FED FIRM SURPLUS/DEFICIT	8815	8147	2971	4731	2693	4148	3784	2856	1533	-1233	1
1974 FED FIRM SURPLUS/DEFICIT	3183	3227	2956	3454	588	4944	4115	4176	5227	2635	1
1975 FED FIRM SURPLUS/DEFICIT	8839	7300	3201	4668	2645	2444	4103	4003	5376	1669	1
1976 FED FIRM SURPLUS/DEFICIT	4893	5907	2968	5190	4339	5082	4126	3870	5144	2740	1
1977 FED FIRM SURPLUS/DEFICIT	8803	9335	7429	5140	2940	3444	886	-876	816	401	1
1978 FED FIRM SURPLUS/DEFICIT	3313	3421	2869	3365	1449	2713	4043	3752	5186	2653	1

2003- 4

OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	
UNADJUSTED	1-15	16-31								1-15	16
1929 FED FIRM SURPLUS/DEFICIT	6783	3848	3895	3731	2687	3742	925	407	1495	1570	2
1930 FED FIRM SURPLUS/DEFICIT	3661	3703	3000	2400	2245	2770	643	-772	1151	2321	2
1931 FED FIRM SURPLUS/DEFICIT	5806	4518	2967	2542	2148	3273	581	-1067	474	4092	1
1932 FED FIRM SURPLUS/DEFICIT	2845	3475	2899	2046	1005	2254	3620	4358	5059	4853	3
1933 FED FIRM SURPLUS/DEFICIT	5322	6043	4521	3768	2458	4053	4887	4520	5277	4792	3
1934 FED FIRM SURPLUS/DEFICIT	8458	7556	4365	4141	5541	5658	4905	4578	5386	5121	3
1935 FED FIRM SURPLUS/DEFICIT	4246	4129	4556	3463	2333	3755	4841	5162	3944	3986	3
1936 FED FIRM SURPLUS/DEFICIT	7246	3911	4539	3895	3226	4095	4486	2900	5044	5139	3
1937 FED FIRM SURPLUS/DEFICIT	3953	3773	4048	4009	3351	3739	415	1139	1422	2644	2
1938 FED FIRM SURPLUS/DEFICIT	2927	3141	2952	2103	-152	2468	4879	4497	5398	4963	3
1939 FED FIRM SURPLUS/DEFICIT	3450	3355	4490	4070	3038	3596	3156	-493	5622	5964	4
1940 FED FIRM SURPLUS/DEFICIT	4943	3934	4375	4194	3422	3824	3637	21	5810	6777	4
1941 FED FIRM SURPLUS/DEFICIT	4576	3931	3063	2662	2393	3273	1417	1539	1502	4775	3
1942 FED FIRM SURPLUS/DEFICIT	5496	5418	2942	2381	2628	5595	4852	5162	3605	5734	3
1943 FED FIRM SURPLUS/DEFICIT	6405	4480	4562	4045	2748	3845	4885	4590	5386	5131	3
1944 FED FIRM SURPLUS/DEFICIT	6750	3627	4137	3804	3138	3736	590	-71	259	2857	2

1945 FED FIRM SURPLUS/DEFICIT	3210	3054	3006	2155	1243	2469	1742	284	1722	3803	2083
1946 FED FIRM SURPLUS/DEFICIT	2942	2992	3010	2167	1390	2160	4918	4583	5423	4849	3270
1947 FED FIRM SURPLUS/DEFICIT	6582	4281	4499	3933	2592	5564	4914	4624	5479	5067	3399
1948 FED FIRM SURPLUS/DEFICIT	5243	3318	4279	6199	4355	5367	4912	4580	5316	5007	3014
1949 FED FIRM SURPLUS/DEFICIT	8150	7611	4546	3825	2974	4033	4890	4777	5661	5403	3560
1950 FED FIRM SURPLUS/DEFICIT	2947	2995	2995	2163	1047	3887	4909	4558	5343	5034	3200
1951 FED FIRM SURPLUS/DEFICIT	8337	6882	4262	4904	4989	5710	4925	4601	5387	5093	3295
1952 FED FIRM SURPLUS/DEFICIT	8410	4903	3868	5748	2647	5250	4886	4714	5562	5319	3519
1953 FED FIRM SURPLUS/DEFICIT	5860	2992	4184	3845	3305	3998	4941	4650	4611	4531	3095
1954 FED FIRM SURPLUS/DEFICIT	6267	5413	4188	3902	2532	3872	4916	4583	5309	4989	3167
1955 FED FIRM SURPLUS/DEFICIT	8547	9005	6544	3815	3175	4864	4896	4986	4794	5588	2178
1956 FED FIRM SURPLUS/DEFICIT	7379	3613	3999	2746	3854	5703	4923	4568	5317	4989	3039
1957 FED FIRM SURPLUS/DEFICIT	7023	5733	2999	2495	1869	5287	4895	4733	5623	5356	3542
1958 FED FIRM SURPLUS/DEFICIT	3178	2992	4091	3870	2924	3672	4915	4765	5663	5133	3293
1959 FED FIRM SURPLUS/DEFICIT	3469	3633	4114	3713	2498	4944	4935	4566	5298	5020	3238
1960 FED FIRM SURPLUS/DEFICIT	7126	5513	7726	8039	5823	5527	4896	4663	5546	5339	3225
1961 FED FIRM SURPLUS/DEFICIT	6381	3042	4283	4181	2284	3806	4896	4594	5372	5099	3302
1962 FED FIRM SURPLUS/DEFICIT	3544	4517	4258	3836	2838	3421	4882	4956	5904	5783	3650
1963 FED FIRM SURPLUS/DEFICIT	6033	4748	4120	4102	2292	5474	4903	5151	5339	5720	2408
1964 FED FIRM SURPLUS/DEFICIT	5682	4574	4593	3782	2552	3689	4920	4617	5425	5140	2505
1965 FED FIRM SURPLUS/DEFICIT	7443	5269	4133	4210	3181	5698	4924	4652	5437	5117	3317
1966 FED FIRM SURPLUS/DEFICIT	8229	7492	4414	3990	3163	4461	4897	5207	5700	5711	3311
1967 FED FIRM SURPLUS/DEFICIT	6516	3702	4215	3740	2906	3448	4919	4570	5355	5046	1938
1968 FED FIRM SURPLUS/DEFICIT	7994	5391	4376	3345	2545	4132	4927	4864	5954	4801	2094
1969 FED FIRM SURPLUS/DEFICIT	3642	5890	5990	5537	4619	5438	4911	4530	5342	5111	3359
1970 FED FIRM SURPLUS/DEFICIT	3803	2979	3006	3216	2396	3479	4886	5417	6422	5943	2600
1971 FED FIRM SURPLUS/DEFICIT	2951	2991	3105	2917	2417	3755	4905	4479	5288	4817	3097
1972 FED FIRM SURPLUS/DEFICIT	8596	5629	3029	2854	1928	4896	4909	4493	5376	5175	3045
1973 FED FIRM SURPLUS/DEFICIT	8578	7910	3027	3439	2689	4746	4594	3525	1715	1094	1283
1974 FED FIRM SURPLUS/DEFICIT	2946	2990	3013	2162	584	5542	4925	4844	5409	4962	2949
1975 FED FIRM SURPLUS/DEFICIT	8602	7063	3258	3377	2641	3042	4913	4671	5558	3997	3207
1976 FED FIRM SURPLUS/DEFICIT	4656	5670	3024	3899	4335	5680	4936	4538	5326	5067	3261
1977 FED FIRM SURPLUS/DEFICIT	8566	9098	7485	3848	2935	4042	1696	-208	998	2728	3145
1978 FED FIRM SURPLUS/DEFICIT	3076	3184	2926	2073	1445	3311	4853	4420	5369	4980	3201
*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2800
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .83	900	900	900	900	900	900	900	900	900	900	900
2003- 4											
OPERATING YEAR RUN											
DATE: 03/05/93 MEDIUM LOAD FORECAST											
PEAK IN MEGAWATTS ADJUSTED	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30
1929 FED FIRM SURPLUS/DEFICIT	6783	3848	3595	4781	2387	2842	-225	-593	995	-730	975
1930 FED FIRM SURPLUS/DEFICIT	3661	3703	2700	3450	1945	1870	-507	-1772	651	21	877
1931 FED FIRM SURPLUS/DEFICIT	5806	4518	2667	3592	1848	2373	-569	-2067	-26	1792	103

1932 FED FIRM SURPLUS/DEFICIT	2845	3475	2599	3096	705	1354	2470	3358	4559	2553	1
1933 FED FIRM SURPLUS/DEFICIT	5322	6043	4221	4818	2158	3153	3737	3520	4777	2492	1
1934 FED FIRM SURPLUS/DEFICIT	8458	7556	4065	5191	5241	4758	3755	3578	4886	2821	1
1935 FED FIRM SURPLUS/DEFICIT	4246	4129	4256	4513	2033	2855	3691	4162	3444	1686	1
1936 FED FIRM SURPLUS/DEFICIT	7246	3911	4239	4945	2926	3195	3336	1900	4544	2839	1
1937 FED FIRM SURPLUS/DEFICIT	3953	3773	3748	5059	3051	2839	-735	139	922	344	1
1938 FED FIRM SURPLUS/DEFICIT	2927	3141	2652	3153	-452	1568	3729	3497	4898	2663	1
1939 FED FIRM SURPLUS/DEFICIT	3450	3355	4190	5120	2738	2696	2006	-1493	5122	3664	1
1940 FED FIRM SURPLUS/DEFICIT	4943	3934	4075	5244	3122	2924	2487	-979	5310	4477	3
1941 FED FIRM SURPLUS/DEFICIT	4576	3931	2763	3712	2093	2373	267	539	1002	2475	1
1942 FED FIRM SURPLUS/DEFICIT	5496	5418	2642	3431	2328	4695	3702	4162	3105	3434	1
1943 FED FIRM SURPLUS/DEFICIT	6405	4480	4262	5095	2448	2945	3735	3590	4886	2831	1
1944 FED FIRM SURPLUS/DEFICIT	6750	3627	3837	4854	2838	2836	-560	-1071	-241	557	1
1945 FED FIRM SURPLUS/DEFICIT	3210	3054	2706	3205	943	1569	592	-716	1222	1503	1
1946 FED FIRM SURPLUS/DEFICIT	2942	2992	2710	3217	1090	1260	3768	3583	4923	2549	1
1947 FED FIRM SURPLUS/DEFICIT	6582	4281	4199	4983	2292	4664	3764	3624	4979	2767	1
1948 FED FIRM SURPLUS/DEFICIT	5243	3318	3979	7249	4055	4467	3762	3580	4816	2707	1
1949 FED FIRM SURPLUS/DEFICIT	8150	7611	4246	4875	2674	3133	3740	3777	5161	3103	1
1950 FED FIRM SURPLUS/DEFICIT	2947	2995	2695	3213	747	2987	3759	3558	4843	2734	1
1951 FED FIRM SURPLUS/DEFICIT	8337	6882	3962	5954	4689	4810	3775	3601	4887	2793	1
1952 FED FIRM SURPLUS/DEFICIT	8410	4903	3568	6798	2347	4350	3736	3714	5062	3019	1
1953 FED FIRM SURPLUS/DEFICIT	5860	2992	3884	4895	3005	3098	3791	3650	4111	2231	1
1954 FED FIRM SURPLUS/DEFICIT	6267	5413	3888	4952	2232	2972	3766	3583	4809	2689	1
1955 FED FIRM SURPLUS/DEFICIT	8547	9005	6244	4865	2875	3964	3746	3986	4294	3288	1
1956 FED FIRM SURPLUS/DEFICIT	7379	3613	3699	3796	3554	4803	3773	3568	4817	2689	1
1957 FED FIRM SURPLUS/DEFICIT	7023	5733	2699	3545	1569	4387	3745	3733	5123	3056	1
1958 FED FIRM SURPLUS/DEFICIT	3178	2992	3791	4920	2624	2772	3765	3765	5163	2833	1
1959 FED FIRM SURPLUS/DEFICIT	3469	3633	3814	4763	2198	4044	3785	3566	4798	2720	1
1960 FED FIRM SURPLUS/DEFICIT	7126	5513	7426	9089	5523	4627	3746	3663	5046	3039	1
1961 FED FIRM SURPLUS/DEFICIT	6381	3042	3983	5231	1984	2906	3746	3594	4872	2799	1
1962 FED FIRM SURPLUS/DEFICIT	3544	4517	3958	4886	2538	2521	3732	3956	5404	3483	1
1963 FED FIRM SURPLUS/DEFICIT	6033	4748	3820	5152	1992	4574	3753	4151	4839	3420	1
1964 FED FIRM SURPLUS/DEFICIT	5682	4574	4293	4832	2252	2789	3770	3617	4925	2840	1
1965 FED FIRM SURPLUS/DEFICIT	7443	5269	3833	5260	2881	4798	3774	3652	4937	2817	1
1966 FED FIRM SURPLUS/DEFICIT	8229	7492	4114	5040	2863	3561	3747	4207	5200	3411	1
1967 FED FIRM SURPLUS/DEFICIT	6516	3702	3915	4790	2606	2548	3769	3570	4855	2746	1
1968 FED FIRM SURPLUS/DEFICIT	7994	5391	4076	4395	2245	3232	3777	3864	5454	2501	1
1969 FED FIRM SURPLUS/DEFICIT	3642	5890	5690	6587	4319	4538	3761	3530	4842	2811	1
1970 FED FIRM SURPLUS/DEFICIT	3803	2979	2706	4266	2096	2579	3736	4417	5922	3643	1
1971 FED FIRM SURPLUS/DEFICIT	2951	2991	2805	3967	2117	2855	3755	3479	4788	2517	1
1972 FED FIRM SURPLUS/DEFICIT	8596	5629	2729	3904	1628	3996	3759	3493	4876	2875	1
1973 FED FIRM SURPLUS/DEFICIT	8578	7910	2727	4489	2389	3846	3444	2525	1215	-1206	1
1974 FED FIRM SURPLUS/DEFICIT	2946	2990	2713	3212	284	4642	3775	3844	4909	2662	1
1975 FED FIRM SURPLUS/DEFICIT	8602	7063	2958	4427	2341	2142	3763	3671	5058	1697	1
1976 FED FIRM SURPLUS/DEFICIT	4656	5670	2724	4949	4035	4780	3786	3538	4826	2767	1
1977 FED FIRM SURPLUS/DEFICIT	8566	9098	7185	4898	2635	3142	546	-1208	498	428	1
1978 FED FIRM SURPLUS/DEFICIT	3076	3184	2626	3123	1145	2411	3703	3420	4869	2680	1

OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30
1929 FED FIRM SURPLUS/DEFICIT	6694	3759	3804	3622	2538	3582	742	227	1332	1423	2526
1930 FED FIRM SURPLUS/DEFICIT	3573	3615	2908	2291	2096	2610	460	-951	988	2173	2428
1931 FED FIRM SURPLUS/DEFICIT	5717	4430	2875	2433	1999	3113	398	-1246	312	3944	1654
1932 FED FIRM SURPLUS/DEFICIT	2757	3386	2807	1938	856	2094	3437	4179	4897	4705	2909
1933 FED FIRM SURPLUS/DEFICIT	5233	5955	4430	3660	2309	3893	4704	4341	5115	4644	3044
1934 FED FIRM SURPLUS/DEFICIT	8370	7467	4274	4033	5392	5498	4722	4399	5223	4974	3243
1935 FED FIRM SURPLUS/DEFICIT	4157	4041	4465	3354	2184	3595	4658	4983	3781	3839	3303
1936 FED FIRM SURPLUS/DEFICIT	7157	3822	4448	3787	3078	3935	4303	2721	4882	4992	3400
1937 FED FIRM SURPLUS/DEFICIT	3864	3685	3957	3901	3203	3579	232	960	1259	2496	2696
1938 FED FIRM SURPLUS/DEFICIT	2839	3052	2860	1995	-300	2308	4696	4317	5236	4815	2967
1939 FED FIRM SURPLUS/DEFICIT	3362	3267	4399	3961	2889	3436	2973	-673	5459	5816	3916
1940 FED FIRM SURPLUS/DEFICIT	4855	3845	4284	4086	3273	3664	3455	-158	5647	6629	4693
1941 FED FIRM SURPLUS/DEFICIT	4487	3842	2972	2554	2245	3113	1234	1359	1339	4627	3336
1942 FED FIRM SURPLUS/DEFICIT	5407	5329	2850	2273	2479	5435	4669	4983	3442	5586	3277
1943 FED FIRM SURPLUS/DEFICIT	6317	4392	4470	3937	2599	3685	4702	4411	5223	4984	3184
1944 FED FIRM SURPLUS/DEFICIT	6662	3538	4046	3695	2990	3576	407	-250	96	2710	2802
1945 FED FIRM SURPLUS/DEFICIT	3122	2966	2914	2047	1094	2309	1559	105	1560	3655	1934
1946 FED FIRM SURPLUS/DEFICIT	2854	2903	2918	2059	1242	1999	4735	4404	5260	4701	3122
1947 FED FIRM SURPLUS/DEFICIT	6494	4193	4408	3824	2443	5404	4731	4445	5317	4919	3250
1948 FED FIRM SURPLUS/DEFICIT	5154	3229	4188	6091	4207	5206	4729	4401	5153	4859	2865
1949 FED FIRM SURPLUS/DEFICIT	8062	7522	4455	3717	2825	3873	4707	4597	5498	5256	3412
1950 FED FIRM SURPLUS/DEFICIT	2859	2906	2903	2055	899	3727	4726	4378	5180	4887	3051
1951 FED FIRM SURPLUS/DEFICIT	8249	6794	4171	4795	4840	5550	4742	4422	5225	4945	3146
1952 FED FIRM SURPLUS/DEFICIT	8322	4815	3777	5639	2498	5090	4703	4534	5400	5171	3370
1953 FED FIRM SURPLUS/DEFICIT	5771	2903	4093	3737	3156	3838	4758	4470	4449	4384	2947
1954 FED FIRM SURPLUS/DEFICIT	6178	5325	4097	3793	2383	3712	4733	4404	5147	4842	3018
1955 FED FIRM SURPLUS/DEFICIT	8459	8916	6453	3707	3027	4704	4713	4807	4632	5440	2029
1956 FED FIRM SURPLUS/DEFICIT	7291	3525	3908	2638	3705	5543	4740	4389	5154	4841	2890
1957 FED FIRM SURPLUS/DEFICIT	6935	5645	2908	2386	1720	5126	4712	4554	5460	5208	3394
1958 FED FIRM SURPLUS/DEFICIT	3089	2903	4000	3762	2775	3512	4732	4586	5501	4985	3145
1959 FED FIRM SURPLUS/DEFICIT	3380	3545	4023	3605	2349	4784	4752	4387	5136	4872	3090
1960 FED FIRM SURPLUS/DEFICIT	7037	5425	7635	7930	5674	5366	4713	4484	5384	5191	3076
1961 FED FIRM SURPLUS/DEFICIT	6293	2953	4192	4072	2135	3646	4713	4415	5209	4952	3154
1962 FED FIRM SURPLUS/DEFICIT	3456	4429	4167	3727	2690	3261	4699	4777	5741	5636	3501
1963 FED FIRM SURPLUS/DEFICIT	5944	4659	4028	3993	2143	5314	4720	4972	5177	5572	2259
1964 FED FIRM SURPLUS/DEFICIT	5593	4486	4502	3673	2403	3529	4737	4438	5263	4993	2357
1965 FED FIRM SURPLUS/DEFICIT	7355	5181	4042	4101	3032	5538	4741	4473	5274	4970	3169
1966 FED FIRM SURPLUS/DEFICIT	8140	7403	4322	3881	3015	4301	4714	5028	5538	5564	3162
1967 FED FIRM SURPLUS/DEFICIT	6427	3613	4124	3632	2757	3288	4736	4391	5192	4898	1789
1968 FED FIRM SURPLUS/DEFICIT	7905	5302	4285	3236	2397	3972	4744	4685	5792	4653	1946
1969 FED FIRM SURPLUS/DEFICIT	3553	5801	5899	5429	4470	5278	4728	4351	5180	4963	3210
1970 FED FIRM SURPLUS/DEFICIT	3715	2890	2915	3108	2247	3319	4703	5238	6260	5796	2452
1971 FED FIRM SURPLUS/DEFICIT	2863	2902	3014	2809	2269	3595	4722	4300	5125	4670	2948

1972 FED FIRM SURPLUS/DEFICIT	8508	5540	2938	2745	1779	4735	4726	4314	5214	5028	2
1973 FED FIRM SURPLUS/DEFICIT	8490	7822	2936	3331	2540	4586	4412	3345	1552	946	1
1974 FED FIRM SURPLUS/DEFICIT	2858	2901	2921	2054	435	5381	4742	4665	5247	4814	2
1975 FED FIRM SURPLUS/DEFICIT	8513	6974	3167	3268	2492	2882	4730	4492	5396	3849	3
1976 FED FIRM SURPLUS/DEFICIT	4567	5581	2933	3790	4186	5520	4753	4359	5164	4919	3
1977 FED FIRM SURPLUS/DEFICIT	8478	9010	7394	3740	2787	3882	1513	-387	835	2580	2
1978 FED FIRM SURPLUS/DEFICIT	2987	3095	2834	1965	1297	3150	4670	4241	5206	4832	3
*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .84	993	993	993	993	993	993	993	993	993	993	

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RUN

OPERATING YEAR
DATE: 03/05/93 MEDIUM LOAD
FORECAST

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	
1929 FED FIRM SURPLUS/DEFICIT	6787	3852	3597	4765	2331	2775	-315	-680	925	-784	1
1930 FED FIRM SURPLUS/DEFICIT	3666	3708	2701	3434	1889	1803	-597	-1858	581	-34	
1931 FED FIRM SURPLUS/DEFICIT	5810	4523	2668	3576	1792	2306	-659	-2153	-95	1737	
1932 FED FIRM SURPLUS/DEFICIT	2850	3479	2600	3081	649	1287	2380	3272	4490	2498	1
1933 FED FIRM SURPLUS/DEFICIT	5326	6048	4223	4803	2102	3086	3647	3434	4708	2437	1
1934 FED FIRM SURPLUS/DEFICIT	8463	7560	4067	5176	5185	4691	3665	3492	4816	2767	1
1935 FED FIRM SURPLUS/DEFICIT	4250	4134	4258	4497	1977	2788	3601	4076	3374	1632	1
1936 FED FIRM SURPLUS/DEFICIT	7250	3915	4241	4930	2871	3128	3246	1814	4475	2785	1
1937 FED FIRM SURPLUS/DEFICIT	3957	3778	3750	5044	2996	2772	-825	53	852	289	1
1938 FED FIRM SURPLUS/DEFICIT	2932	3145	2653	3138	-507	1501	3639	3410	4829	2608	1
1939 FED FIRM SURPLUS/DEFICIT	3455	3360	4192	5104	2682	2629	1916	-1580	5052	3609	2
1940 FED FIRM SURPLUS/DEFICIT	4948	3938	4077	5229	3066	2857	2398	-1065	5240	4422	3
1941 FED FIRM SURPLUS/DEFICIT	4580	3935	2765	3697	2038	2306	177	452	932	2420	1
1942 FED FIRM SURPLUS/DEFICIT	5500	5422	2643	3416	2272	4628	3612	4076	3035	3379	1
1943 FED FIRM SURPLUS/DEFICIT	6410	4485	4263	5080	2392	2878	3645	3504	4816	2777	1
1944 FED FIRM SURPLUS/DEFICIT	6755	3631	3839	4838	2783	2769	-650	-1157	-311	503	1
1945 FED FIRM SURPLUS/DEFICIT	3215	3059	2707	3190	887	1502	502	-802	1153	1448	
1946 FED FIRM SURPLUS/DEFICIT	2947	2996	2711	3202	1035	1192	3678	3497	4853	2494	1
1947 FED FIRM SURPLUS/DEFICIT	6587	4286	4201	4967	2236	4597	3674	3538	4910	2712	1
1948 FED FIRM SURPLUS/DEFICIT	5247	3322	3981	7234	4000	4399	3672	3494	4746	2652	1
1949 FED FIRM SURPLUS/DEFICIT	8155	7615	4248	4860	2618	3066	3650	3690	5091	3049	1
1950 FED FIRM SURPLUS/DEFICIT	2952	2999	2696	3198	692	2920	3669	3471	4773	2680	1
1951 FED FIRM SURPLUS/DEFICIT	8342	6887	3964	5938	4633	4743	3685	3515	4818	2738	1
1952 FED FIRM SURPLUS/DEFICIT	8415	4908	3570	6782	2291	4283	3646	3627	4993	2964	1
1953 FED FIRM SURPLUS/DEFICIT	5864	2996	3886	4880	2949	3031	3701	3563	4042	2177	1
1954 FED FIRM SURPLUS/DEFICIT	6271	5418	3890	4936	2176	2905	3676	3497	4740	2635	1
1955 FED FIRM SURPLUS/DEFICIT	8552	9009	6246	4850	2820	3897	3656	3900	4225	3233	1
1956 FED FIRM SURPLUS/DEFICIT	7384	3618	3701	3781	3498	4736	3683	3482	4747	2634	1
1957 FED FIRM SURPLUS/DEFICIT	7028	5738	2701	3529	1513	4319	3655	3647	5053	3001	1
1958 FED FIRM SURPLUS/DEFICIT	3182	2996	3793	4905	2568	2705	3675	3679	5094	2778	1

1959 FED FIRM SURPLUS/DEFICIT	3473	3638	3816	4748	2142	3977	3695	3480	4729	2665	1483
1960 FED FIRM SURPLUS/DEFICIT	7130	5518	7428	9073	5467	4559	3656	3577	4977	2984	1469
1961 FED FIRM SURPLUS/DEFICIT	6386	3046	3985	5215	1928	2839	3656	3508	4802	2745	1547
1962 FED FIRM SURPLUS/DEFICIT	3549	4522	3960	4870	2483	2454	3642	3870	5334	3429	1894
1963 FED FIRM SURPLUS/DEFICIT	6037	4752	3821	5136	1936	4507	3663	4065	4770	3365	652
1964 FED FIRM SURPLUS/DEFICIT	5686	4579	4295	4816	2196	2722	3680	3531	4856	2786	750
1965 FED FIRM SURPLUS/DEFICIT	7448	5274	3835	5244	2825	4731	3684	3566	4867	2763	1562
1966 FED FIRM SURPLUS/DEFICIT	8233	7496	4115	5024	2808	3494	3657	4121	5131	3357	1555
1967 FED FIRM SURPLUS/DEFICIT	6520	3706	3917	4775	2550	2481	3679	3484	4785	2691	182
1968 FED FIRM SURPLUS/DEFICIT	7998	5395	4078	4379	2190	3165	3687	3778	5385	2446	339
1969 FED FIRM SURPLUS/DEFICIT	3646	5894	5692	6572	4263	4471	3671	3444	4773	2756	1603
1970 FED FIRM SURPLUS/DEFICIT	3808	2983	2708	4251	2040	2512	3646	4331	5853	3589	845
1971 FED FIRM SURPLUS/DEFICIT	2956	2995	2807	3952	2062	2788	3665	3393	4718	2463	1341
1972 FED FIRM SURPLUS/DEFICIT	8601	5633	2731	3888	1572	3928	3669	3407	4807	2821	1290
1973 FED FIRM SURPLUS/DEFICIT	8583	7915	2729	4474	2333	3779	3355	2438	1145	-1261	-473
1974 FED FIRM SURPLUS/DEFICIT	2951	2994	2714	3197	228	4574	3685	3758	4840	2607	1194
1975 FED FIRM SURPLUS/DEFICIT	8606	7067	2960	4411	2285	2075	3673	3585	4989	1642	1451
1976 FED FIRM SURPLUS/DEFICIT	4660	5674	2726	4933	3979	4713	3696	3452	4757	2712	1505
1977 FED FIRM SURPLUS/DEFICIT	8571	9103	7187	4883	2580	3075	456	-1294	428	373	1390
1978 FED FIRM SURPLUS/DEFICIT	3080	3188	2627	3108	1090	2343	3613	3334	4799	2625	1445

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OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30
1929 FED FIRM SURPLUS/DEFICIT	6614	3679	3718	3504	2155	3174	322	-185	944	1042	2144
1930 FED FIRM SURPLUS/DEFICIT	3493	3535	2822	2173	1713	2202	40	-1364	600	1793	2047
1931 FED FIRM SURPLUS/DEFICIT	5637	4350	2789	2315	1616	2704	-22	-1659	-76	3564	1272
1932 FED FIRM SURPLUS/DEFICIT	2677	3306	2721	1820	473	1686	3016	3766	4509	4324	2527
1933 FED FIRM SURPLUS/DEFICIT	5153	5875	4344	3541	1925	3485	4283	3928	4727	4264	2663
1934 FED FIRM SURPLUS/DEFICIT	8290	7387	4188	3914	5009	5089	4301	3986	4835	4593	2861
1935 FED FIRM SURPLUS/DEFICIT	4077	3961	4379	3236	1801	3187	4237	4571	3393	3458	2921
1936 FED FIRM SURPLUS/DEFICIT	7077	3742	4362	3668	2694	3527	3882	2308	4494	4611	3018
1937 FED FIRM SURPLUS/DEFICIT	3784	3605	3871	3782	2819	3171	-188	547	872	2115	2314
1938 FED FIRM SURPLUS/DEFICIT	2759	2972	2774	1877	-684	1900	4276	3905	4848	4434	2586
1939 FED FIRM SURPLUS/DEFICIT	3282	3187	4313	3843	2506	3027	2553	-1085	5072	5435	3534
1940 FED FIRM SURPLUS/DEFICIT	4775	3765	4198	3967	2889	3256	3034	-571	5259	6249	4311
1941 FED FIRM SURPLUS/DEFICIT	4407	3762	2886	2435	1861	2705	813	947	952	4246	2955
1942 FED FIRM SURPLUS/DEFICIT	5327	5249	2764	2155	2096	5026	4249	4570	3054	5205	2895
1943 FED FIRM SURPLUS/DEFICIT	6237	4312	4384	3819	2216	3277	4281	3999	4835	4602	2802
1944 FED FIRM SURPLUS/DEFICIT	6582	3459	3960	3577	2606	3167	-14	-663	-292	2329	2420
1945 FED FIRM SURPLUS/DEFICIT	3042	2886	2828	1929	711	1900	1139	-308	1172	3275	1553
1946 FED FIRM SURPLUS/DEFICIT	2774	2823	2832	1941	858	1591	4315	3992	4872	4321	2740
1947 FED FIRM SURPLUS/DEFICIT	6414	4113	4322	3706	2060	4995	4310	4032	4929	4538	2869
1948 FED FIRM SURPLUS/DEFICIT	5074	3149	4102	5972	3823	4798	4308	3988	4766	4478	2483
1949 FED FIRM SURPLUS/DEFICIT	7982	7442	4369	3599	2442	3464	4286	4185	5110	4875	3030
1950 FED FIRM SURPLUS/DEFICIT	2779	2826	2817	1937	515	3318	4305	3966	4793	4506	2670
1951 FED FIRM SURPLUS/DEFICIT	8169	6714	4085	4677	4457	5141	4321	4009	4837	4564	2764

1952 FED FIRM SURPLUS/DEFICIT	8242	4735	3691	5521	2115	4681	4282	4121	5012	4791	2
1953 FED FIRM SURPLUS/DEFICIT	5692	2823	4007	3618	2773	3430	4337	4058	4061	4003	2
1954 FED FIRM SURPLUS/DEFICIT	6099	5245	4011	3675	2000	3303	4312	3992	4759	4461	2
1955 FED FIRM SURPLUS/DEFICIT	8379	8836	6367	3589	2643	4296	4293	4395	4244	5060	1
1956 FED FIRM SURPLUS/DEFICIT	7211	3445	3821	2519	3322	5134	4319	3976	4767	4461	2
1957 FED FIRM SURPLUS/DEFICIT	6855	5565	2822	2268	1337	4718	4291	4140	5072	4828	3
1958 FED FIRM SURPLUS/DEFICIT	3009	2823	3914	3644	2392	3104	4311	4173	5113	4604	2
1959 FED FIRM SURPLUS/DEFICIT	3300	3465	3937	3487	1966	4375	4331	3975	4748	4491	2
1960 FED FIRM SURPLUS/DEFICIT	6958	5345	7549	7812	5291	4958	4292	4071	4996	4810	2
1961 FED FIRM SURPLUS/DEFICIT	6213	2873	4106	3954	1752	3237	4293	4002	4821	4571	2
1962 FED FIRM SURPLUS/DEFICIT	3376	4349	4081	3609	2306	2853	4279	4363	5354	5255	3
1963 FED FIRM SURPLUS/DEFICIT	5864	4579	3942	3875	1760	4906	4299	4560	4789	5191	1
1964 FED FIRM SURPLUS/DEFICIT	5513	4406	4416	3555	2020	3121	4317	4025	4875	4612	1
1965 FED FIRM SURPLUS/DEFICIT	7275	5101	3956	3983	2649	5130	4320	4060	4887	4589	2
1966 FED FIRM SURPLUS/DEFICIT	8060	7323	4236	3763	2631	3892	4294	4615	5150	5183	2
1967 FED FIRM SURPLUS/DEFICIT	6347	3533	4038	3514	2374	2880	4315	3978	4805	4518	1
1968 FED FIRM SURPLUS/DEFICIT	7825	5222	4199	3118	2013	3563	4323	4273	5404	4272	1
1969 FED FIRM SURPLUS/DEFICIT	3473	5722	5813	5311	4087	4869	4307	3938	4792	4583	2
1970 FED FIRM SURPLUS/DEFICIT	3635	2810	2829	2990	1864	2910	4282	4825	5872	5415	2
1971 FED FIRM SURPLUS/DEFICIT	2783	2822	2928	2690	1885	3186	4302	3887	4737	4289	2
1972 FED FIRM SURPLUS/DEFICIT	8428	5460	2852	2627	1396	4327	4305	3901	4826	4647	2
1973 FED FIRM SURPLUS/DEFICIT	8410	7742	2850	3213	2157	4177	3991	2933	1164	565	2
1974 FED FIRM SURPLUS/DEFICIT	2778	2821	2835	1936	52	4973	4322	4253	4859	4435	2
1975 FED FIRM SURPLUS/DEFICIT	8434	6895	3080	3150	2108	2474	4310	4079	5008	3468	2
1976 FED FIRM SURPLUS/DEFICIT	4487	5501	2847	3672	3803	5111	4332	3947	4776	4539	2
1977 FED FIRM SURPLUS/DEFICIT	8398	8930	7308	3622	2403	3473	1093	-800	447	2200	2
1978 FED FIRM SURPLUS/DEFICIT	2907	3015	2748	1847	913	2742	4249	3828	4818	4452	2
*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1
*Add firm capacity to meet Fed firm energy loads at C-E ratio at .85	1169	1169	1169	1169	1169	1169	1169	1169	1169	1169	1
2005- 6 RUN											
OPERATING YEAR											
DATE: 03/05/93 MEDIUM LOAD											
FORECAST											
PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	
	1-15	16-31								1-15	1
1929 FED FIRM SURPLUS/DEFICIT	6883	3948	3687	4823	2124	2543	-559	-916	713	-989	
1930 FED FIRM SURPLUS/DEFICIT	3762	3804	2791	3492	1682	1571	-841	-2095	369	-238	
1931 FED FIRM SURPLUS/DEFICIT	5906	4619	2758	3634	1585	2073	-903	-2390	-307	1533	
1932 FED FIRM SURPLUS/DEFICIT	2946	3575	2690	3139	442	1055	2135	3035	4278	2293	1
1933 FED FIRM SURPLUS/DEFICIT	5422	6144	4313	4860	1894	2854	3402	3197	4496	2233	1
1934 FED FIRM SURPLUS/DEFICIT	8559	7656	4157	5233	4978	4458	3420	3255	4604	2562	1
1935 FED FIRM SURPLUS/DEFICIT	4346	4230	4348	4555	1770	2556	3356	3840	3162	1427	1
1936 FED FIRM SURPLUS/DEFICIT	7346	4011	4331	4987	2663	2896	3001	1577	4263	2580	1
1937 FED FIRM SURPLUS/DEFICIT	4053	3874	3840	5101	2788	2540	-1069	-184	641	84	

1938 FED FIRM SURPLUS/DEFICIT	3028	3241	2743	3196	-715	1269	3395	3174	4617	2403	1155
1939 FED FIRM SURPLUS/DEFICIT	3551	3456	4282	5162	2475	2396	1672	-1816	4841	3404	2103
1940 FED FIRM SURPLUS/DEFICIT	5044	4034	4167	5286	2858	2625	2153	-1302	5028	4218	2880
1941 FED FIRM SURPLUS/DEFICIT	4676	4031	2855	3754	1830	2074	-68	216	721	2215	1524
1942 FED FIRM SURPLUS/DEFICIT	5596	5518	2733	3474	2065	4395	3368	3839	2823	3174	1464
1943 FED FIRM SURPLUS/DEFICIT	6506	4581	4353	5138	2185	2646	3400	3268	4604	2571	1371
1944 FED FIRM SURPLUS/DEFICIT	6851	3728	3929	4896	2575	2536	-895	-1394	-523	298	989
1945 FED FIRM SURPLUS/DEFICIT	3311	3155	2797	3248	680	1269	258	-1039	941	1244	122
1946 FED FIRM SURPLUS/DEFICIT	3043	3092	2801	3260	827	960	3434	3261	4641	2290	1309
1947 FED FIRM SURPLUS/DEFICIT	6683	4382	4291	5025	2029	4364	3429	3301	4698	2507	1438
1948 FED FIRM SURPLUS/DEFICIT	5343	3418	4071	7291	3792	4167	3427	3257	4535	2447	1052
1949 FED FIRM SURPLUS/DEFICIT	8251	7711	4338	4918	2411	2833	3405	3454	4879	2844	1599
1950 FED FIRM SURPLUS/DEFICIT	3048	3095	2786	3256	484	2687	3424	3235	4562	2475	1239
1951 FED FIRM SURPLUS/DEFICIT	8438	6983	4054	5996	4426	4510	3440	3278	4606	2533	1333
1952 FED FIRM SURPLUS/DEFICIT	8511	5004	3660	6840	2084	4050	3401	3390	4781	2760	1558
1953 FED FIRM SURPLUS/DEFICIT	5961	3092	3976	4937	2742	2799	3456	3327	3830	1972	1134
1954 FED FIRM SURPLUS/DEFICIT	6368	5514	3980	4994	1969	2672	3431	3261	4528	2430	1205
1955 FED FIRM SURPLUS/DEFICIT	8648	9105	6336	4908	2612	3665	3412	3664	4013	3029	217
1956 FED FIRM SURPLUS/DEFICIT	7480	3714	3790	3838	3291	4503	3438	3245	4536	2430	1077
1957 FED FIRM SURPLUS/DEFICIT	7124	5834	2791	3587	1306	4087	3410	3409	4841	2797	1581
1958 FED FIRM SURPLUS/DEFICIT	3278	3092	3883	4963	2361	2473	3430	3442	4882	2573	1332
1959 FED FIRM SURPLUS/DEFICIT	3569	3734	3906	4806	1935	3744	3450	3244	4517	2460	1277
1960 FED FIRM SURPLUS/DEFICIT	7227	5614	7518	9131	5260	4327	3411	3340	4765	2779	1263
1961 FED FIRM SURPLUS/DEFICIT	6482	3142	4075	5273	1721	2606	3412	3271	4590	2540	1341
1962 FED FIRM SURPLUS/DEFICIT	3645	4618	4050	4928	2275	2222	3398	3632	5123	3224	1688
1963 FED FIRM SURPLUS/DEFICIT	6133	4848	3911	5194	1729	4275	3418	3829	4558	3160	447
1964 FED FIRM SURPLUS/DEFICIT	5782	4675	4385	4874	1989	2490	3436	3294	4644	2581	544
1965 FED FIRM SURPLUS/DEFICIT	7544	5370	3925	5302	2618	4499	3439	3329	4656	2558	1356
1966 FED FIRM SURPLUS/DEFICIT	8329	7592	4205	5082	2600	3261	3413	3884	4919	3152	1349
1967 FED FIRM SURPLUS/DEFICIT	6616	3802	4007	4833	2343	2249	3434	3247	4574	2487	-23
1968 FED FIRM SURPLUS/DEFICIT	8094	5491	4168	4437	1982	2932	3442	3542	5173	2241	133
1969 FED FIRM SURPLUS/DEFICIT	3742	5991	5782	6630	4056	4238	3426	3207	4561	2552	1398
1970 FED FIRM SURPLUS/DEFICIT	3904	3079	2798	4309	1833	2279	3401	4094	5641	3384	639
1971 FED FIRM SURPLUS/DEFICIT	3052	3091	2897	4009	1854	2555	3421	3156	4506	2258	1136
1972 FED FIRM SURPLUS/DEFICIT	8697	5729	2821	3946	1365	3696	3424	3170	4595	2616	1084
1973 FED FIRM SURPLUS/DEFICIT	8679	8011	2819	4532	2126	3546	3110	2202	933	-1466	-679
1974 FED FIRM SURPLUS/DEFICIT	3047	3090	2804	3255	21	4342	3441	3522	4628	2404	988
1975 FED FIRM SURPLUS/DEFICIT	8703	7164	3049	4469	2077	1843	3429	3348	4777	1437	1246
1976 FED FIRM SURPLUS/DEFICIT	4756	5770	2816	4991	3772	4480	3451	3216	4545	2508	1300
1977 FED FIRM SURPLUS/DEFICIT	8667	9199	7277	4941	2372	2842	212	-1531	216	169	1184
1978 FED FIRM SURPLUS/DEFICIT	3176	3284	2717	3166	882	2111	3368	3097	4587	2421	1240

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OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30
1929 FED FIRM SURPLUS/DEFICIT	6314	3417	3451	3139	1986	2993	147	-346	790	901	2002
1930 FED FIRM SURPLUS/DEFICIT	3192	3272	2555	1808	1544	2021	-135	-1525	446	1652	1905

1931	FED FIRM	SURPLUS/DEFICIT	5337	4087	2522	1950	1447	2524	-197	-1820	-230	3422	1
1932	FED FIRM	SURPLUS/DEFICIT	2376	3043	2454	1454	304	1505	2842	3605	4355	4183	2
1933	FED FIRM	SURPLUS/DEFICIT	4852	5612	4076	3176	1756	3304	4109	3768	4573	4122	2
1934	FED FIRM	SURPLUS/DEFICIT	7989	7124	3921	3549	4840	4909	4127	3825	4681	4452	2
1935	FED FIRM	SURPLUS/DEFICIT	3777	3698	4111	2871	1632	3006	4063	4410	3239	3317	2
1936	FED FIRM	SURPLUS/DEFICIT	6776	3479	4095	3303	2525	3346	3708	2148	4340	4470	2
1937	FED FIRM	SURPLUS/DEFICIT	3484	3342	3604	3417	2650	2990	-363	387	717	1974	2
1938	FED FIRM	SURPLUS/DEFICIT	2458	2710	2507	1511	-853	1719	4101	3744	4694	4293	2
1939	FED FIRM	SURPLUS/DEFICIT	2981	2924	4046	3478	2337	2847	2378	-1246	4917	5294	3
1940	FED FIRM	SURPLUS/DEFICIT	4474	3503	3931	3602	2720	3076	2860	-732	5105	6108	4
1941	FED FIRM	SURPLUS/DEFICIT	4107	3499	2619	2070	1692	2524	639	786	797	4105	2
1942	FED FIRM	SURPLUS/DEFICIT	5027	4986	2497	1790	1927	4846	4074	4409	2900	5064	2
1943	FED FIRM	SURPLUS/DEFICIT	5936	4049	4117	3453	2047	3097	4107	3838	4681	4461	2
1944	FED FIRM	SURPLUS/DEFICIT	6281	3196	3693	3212	2437	2987	-188	-824	-446	2188	2
1945	FED FIRM	SURPLUS/DEFICIT	2741	2623	2561	1563	542	1720	964	-469	1018	3133	1
1946	FED FIRM	SURPLUS/DEFICIT	2473	2561	2565	1575	689	1411	4140	3830	4718	4180	2
1947	FED FIRM	SURPLUS/DEFICIT	6113	3850	4055	3341	1891	4815	4136	3872	4774	4397	2
1948	FED FIRM	SURPLUS/DEFICIT	4774	2886	3834	5607	3654	4618	4134	3827	4611	4337	2
1949	FED FIRM	SURPLUS/DEFICIT	7681	7179	4101	3234	2273	3284	4112	4024	4956	4734	2
1950	FED FIRM	SURPLUS/DEFICIT	2478	2564	2550	1571	346	3138	4131	3805	4638	4365	2
1951	FED FIRM	SURPLUS/DEFICIT	7868	6451	3818	4312	4288	4961	4147	3848	4683	4423	2
1952	FED FIRM	SURPLUS/DEFICIT	7941	4472	3423	5156	1946	4501	4108	3960	4858	4650	2
1953	FED FIRM	SURPLUS/DEFICIT	5391	2561	3740	3253	2604	3250	4163	3897	3907	3862	2
1954	FED FIRM	SURPLUS/DEFICIT	5798	4982	3744	3310	1831	3123	4138	3831	4605	4320	2
1955	FED FIRM	SURPLUS/DEFICIT	8078	8574	6100	3223	2474	4115	4118	4234	4090	4918	1
1956	FED FIRM	SURPLUS/DEFICIT	6910	3182	3554	2154	3153	4954	4145	3815	4612	4319	2
1957	FED FIRM	SURPLUS/DEFICIT	6554	5302	2555	1903	1168	4538	4117	3979	4918	4687	2
1958	FED FIRM	SURPLUS/DEFICIT	2709	2561	3647	3279	2223	2923	4137	4012	4959	4463	2
1959	FED FIRM	SURPLUS/DEFICIT	3000	3202	3670	3121	1797	4195	4157	3814	4594	4350	2
1960	FED FIRM	SURPLUS/DEFICIT	6657	5082	7282	7447	5122	4778	4118	3910	4842	4669	2
1961	FED FIRM	SURPLUS/DEFICIT	5912	2610	3839	3589	1583	3057	4118	3841	4667	4430	2
1962	FED FIRM	SURPLUS/DEFICIT	3075	4086	3814	3244	2137	2672	4104	4202	5199	5114	2
1963	FED FIRM	SURPLUS/DEFICIT	5563	4317	3675	3510	1591	4726	4125	4399	4635	5050	1
1964	FED FIRM	SURPLUS/DEFICIT	5213	4143	4149	3190	1851	2940	4142	3864	4721	4471	1
1965	FED FIRM	SURPLUS/DEFICIT	6974	4838	3689	3618	2480	4949	4146	3899	4732	4448	2
1966	FED FIRM	SURPLUS/DEFICIT	7760	7061	3969	3398	2462	3712	4119	4454	4996	5042	2
1967	FED FIRM	SURPLUS/DEFICIT	6047	3270	3771	3148	2205	2699	4141	3818	4650	4376	1
1968	FED FIRM	SURPLUS/DEFICIT	7525	4959	3932	2753	1844	3383	4149	4112	5250	4131	1
1969	FED FIRM	SURPLUS/DEFICIT	3173	5459	5545	4946	3918	4689	4133	3778	4638	4441	2
1970	FED FIRM	SURPLUS/DEFICIT	3334	2548	2562	2624	1695	2730	4108	4665	5718	5274	1
1971	FED FIRM	SURPLUS/DEFICIT	2482	2560	2660	2325	1716	3006	4127	3726	4583	4148	2
1972	FED FIRM	SURPLUS/DEFICIT	8127	5197	2585	2262	1227	4147	4131	3741	4672	4506	2
1973	FED FIRM	SURPLUS/DEFICIT	8109	7479	2583	2847	1988	3997	3817	2772	1010	424	2
1974	FED FIRM	SURPLUS/DEFICIT	2477	2559	2568	1570	-117	4793	4147	4092	4705	4294	2
1975	FED FIRM	SURPLUS/DEFICIT	8133	6632	2813	2785	1939	2293	4135	3918	4854	3327	2
1976	FED FIRM	SURPLUS/DEFICIT	4187	5238	2580	3307	3634	4931	4158	3786	4622	4398	2
1977	FED FIRM	SURPLUS/DEFICIT	8097	8667	7041	3257	2234	3293	918	-960	293	2059	2
1978	FED FIRM	SURPLUS/DEFICIT	2607	2753	2481	1481	744	2562	4075	3668	4664	4311	2

*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100
*Less cold weather adjustment					-1400	-1500	-1500	-1500	-1500		
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2800
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .86	1293	1293	1293	1293	1293	1293	1293	1293	1293	1293	1293

2006-7
RUN

OPERATING YEAR

DATE: 03/05/93 MEDIUM LOAD FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR
<i>ADJUSTED</i>	1-15	16-31								1-15	16-30
1929 FED FIRM SURPLUS/DEFICIT	6707	3810	3544	4582	2079	2486	-610	-953	683	-1006	695
1930 FED FIRM SURPLUS/DEFICIT	3585	3665	2648	3251	1637	1514	-892	-2132	339	-255	598
1931 FED FIRM SURPLUS/DEFICIT	5730	4480	2615	3393	1540	2017	-954	-2427	-337	1515	-177
1932 FED FIRM SURPLUS/DEFICIT	2769	3436	2547	2897	397	998	2085	2998	4248	2276	1078
1933 FED FIRM SURPLUS/DEFICIT	5245	6005	4169	4619	1849	2797	3352	3161	4466	2215	1214
1934 FED FIRM SURPLUS/DEFICIT	8382	7517	4014	4992	4933	4402	3370	3218	4574	2545	1412
1935 FED FIRM SURPLUS/DEFICIT	4170	4091	4204	4314	1725	2499	3306	3803	3132	1410	1472
1936 FED FIRM SURPLUS/DEFICIT	7169	3872	4188	4746	2618	2839	2951	1541	4233	2563	1569
1937 FED FIRM SURPLUS/DEFICIT	3877	3735	3697	4860	2743	2483	-1120	-220	610	67	865
1938 FED FIRM SURPLUS/DEFICIT	2851	3103	2600	2954	-760	1212	3344	3137	4587	2386	1137
1939 FED FIRM SURPLUS/DEFICIT	3374	3317	4139	4921	2430	2340	1621	-1853	4810	3387	2085
1940 FED FIRM SURPLUS/DEFICIT	4867	3896	4024	5045	2813	2569	2103	-1339	4998	4201	2862
1941 FED FIRM SURPLUS/DEFICIT	4500	3892	2712	3513	1785	2017	-118	179	690	2198	1506
1942 FED FIRM SURPLUS/DEFICIT	5420	5379	2590	3233	2020	4339	3317	3802	2793	3157	1446
1943 FED FIRM SURPLUS/DEFICIT	6329	4442	4210	4896	2140	2590	3350	3231	4574	2554	1353
1944 FED FIRM SURPLUS/DEFICIT	6674	3589	3786	4655	2530	2480	-945	-1431	-553	281	971
1945 FED FIRM SURPLUS/DEFICIT	3134	3016	2654	3006	635	1213	207	-1076	911	1226	104
1946 FED FIRM SURPLUS/DEFICIT	2866	2954	2658	3018	782	904	3383	3223	4611	2273	1291
1947 FED FIRM SURPLUS/DEFICIT	6506	4243	4148	4784	1984	4308	3379	3265	4667	2490	1420
1948 FED FIRM SURPLUS/DEFICIT	5167	3279	3927	7050	3747	4111	3377	3220	4504	2430	1034
1949 FED FIRM SURPLUS/DEFICIT	8074	7572	4194	4677	2366	2777	3355	3417	4849	2827	1581
1950 FED FIRM SURPLUS/DEFICIT	2871	2957	2643	3014	439	2631	3374	3198	4531	2458	1221
1951 FED FIRM SURPLUS/DEFICIT	8261	6844	3911	5755	4381	4454	3390	3241	4576	2516	1315
1952 FED FIRM SURPLUS/DEFICIT	8334	4865	3516	6599	2039	3994	3351	3353	4751	2743	1540
1953 FED FIRM SURPLUS/DEFICIT	5784	2954	3833	4696	2697	2743	3406	3290	3800	1955	1116
1954 FED FIRM SURPLUS/DEFICIT	6191	5375	3837	4753	1924	2616	3381	3224	4498	2413	1187
1955 FED FIRM SURPLUS/DEFICIT	8471	8967	6193	4666	2567	3608	3361	3627	3983	3011	199
1956 FED FIRM SURPLUS/DEFICIT	7303	3575	3647	3597	3246	4447	3388	3208	4505	2412	1059
1957 FED FIRM SURPLUS/DEFICIT	6947	5695	2648	3346	1261	4031	3360	3372	4811	2780	1563
1958 FED FIRM SURPLUS/DEFICIT	3102	2954	3740	4722	2316	2416	3380	3405	4852	2556	1314
1959 FED FIRM SURPLUS/DEFICIT	3393	3595	3763	4564	1890	3688	3400	3207	4487	2443	1259
1960 FED FIRM SURPLUS/DEFICIT	7050	5475	7375	8890	5215	4271	3361	3303	4735	2762	1245
1961 FED FIRM SURPLUS/DEFICIT	6305	3003	3932	5032	1676	2550	3361	3234	4560	2523	1323
1962 FED FIRM SURPLUS/DEFICIT	3468	4479	3907	4687	2230	2165	3347	3595	5092	3207	1670
1963 FED FIRM SURPLUS/DEFICIT	5956	4710	3768	4953	1684	4219	3368	3792	4528	3143	429
1964 FED FIRM SURPLUS/DEFICIT	5606	4536	4242	4633	1944	2433	3385	3257	4614	2564	526
1965 FED FIRM SURPLUS/DEFICIT	7367	5231	3782	5061	2573	4442	3389	3292	4625	2541	1338
1966 FED FIRM SURPLUS/DEFICIT	8153	7454	4062	4841	2555	3205	3362	3847	4889	3135	1331

1967 FED FIRM SURPLUS/DEFICIT	6440	3663	3864	4591	2298	2192	3384	3211	4543	2469	
1968 FED FIRM SURPLUS/DEFICIT	7918	5352	4025	4196	1937	2876	3392	3505	5143	2224	
1969 FED FIRM SURPLUS/DEFICIT	3566	5852	5638	6389	4011	4182	3376	3171	4531	2534	1
1970 FED FIRM SURPLUS/DEFICIT	3727	2941	2655	4067	1788	2223	3351	4058	5611	3367	
1971 FED FIRM SURPLUS/DEFICIT	2875	2953	2753	3768	1809	2499	3370	3119	4476	2241	1
1972 FED FIRM SURPLUS/DEFICIT	8520	5590	2678	3705	1320	3640	3374	3134	4565	2599	1
1973 FED FIRM SURPLUS/DEFICIT	8502	7872	2676	4290	2081	3490	3060	2165	903	-1483	
1974 FED FIRM SURPLUS/DEFICIT	2870	2952	2661	3013	-24	4286	3390	3485	4598	2387	
1975 FED FIRM SURPLUS/DEFICIT	8526	7025	2906	4228	2032	1786	3378	3311	4747	1420	1
1976 FED FIRM SURPLUS/DEFICIT	4580	5631	2673	4750	3727	4424	3401	3179	4515	2491	1
1977 FED FIRM SURPLUS/DEFICIT	8490	9060	7134	4700	2327	2786	161	-1567	186	152	1
1978 FED FIRM SURPLUS/DEFICIT	3000	3146	2574	2924	837	2055	3318	3061	4557	2404	1

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OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	
UNADJUSTED	1-15	16-31								1-15	16
1929 FED FIRM SURPLUS/DEFICIT	6206	3323	3338	3007	1833	2828	-30	-479	673	793	1
1930 FED FIRM SURPLUS/DEFICIT	3084	3179	2443	1676	1392	1856	-312	-1658	329	1544	1
1931 FED FIRM SURPLUS/DEFICIT	5229	3994	2410	1818	1295	2358	-374	-1953	-347	3315	1
1932 FED FIRM SURPLUS/DEFICIT	2268	2950	2342	1322	152	1340	2664	3472	4238	4075	2
1933 FED FIRM SURPLUS/DEFICIT	4744	5519	3964	3044	1604	3139	3931	3635	4456	4014	2
1934 FED FIRM SURPLUS/DEFICIT	7881	7031	3808	3417	4688	4743	3949	3692	4564	4344	2
1935 FED FIRM SURPLUS/DEFICIT	3669	3605	3999	2739	1480	2841	3885	4277	3122	3209	2
1936 FED FIRM SURPLUS/DEFICIT	6668	3386	3982	3171	2373	3181	3530	2014	4223	4362	2
1937 FED FIRM SURPLUS/DEFICIT	3376	3249	3491	3285	2498	2825	-540	253	600	1866	2
1938 FED FIRM SURPLUS/DEFICIT	2350	2616	2395	1379	-1005	1554	3924	3611	4577	4185	2
1939 FED FIRM SURPLUS/DEFICIT	2873	2831	3933	3346	2185	2681	2201	-1379	4800	5186	3
1940 FED FIRM SURPLUS/DEFICIT	4366	3409	3818	3470	2568	2910	2682	-865	4988	6000	4
1941 FED FIRM SURPLUS/DEFICIT	3998	3406	2506	1938	1540	2359	461	653	680	3997	2
1942 FED FIRM SURPLUS/DEFICIT	4919	4893	2385	1658	1775	4680	3897	4276	2783	4956	2
1943 FED FIRM SURPLUS/DEFICIT	5828	3955	4004	3322	1895	2931	3929	3705	4564	4353	2
1944 FED FIRM SURPLUS/DEFICIT	6173	3102	3580	3080	2285	2821	-366	-957	-563	2080	2
1945 FED FIRM SURPLUS/DEFICIT	2633	2530	2449	1431	390	1554	786	-602	901	3025	1
1946 FED FIRM SURPLUS/DEFICIT	2365	2467	2453	1443	537	1245	3962	3698	4601	4072	2
1947 FED FIRM SURPLUS/DEFICIT	6005	3756	3942	3209	1738	4649	3958	3738	4658	4289	2
1948 FED FIRM SURPLUS/DEFICIT	4665	2793	3722	5475	3502	4452	3956	3694	4494	4229	2
1949 FED FIRM SURPLUS/DEFICIT	7573	7086	3989	3102	2121	3118	3934	3891	4839	4626	2
1950 FED FIRM SURPLUS/DEFICIT	2370	2470	2438	1439	194	2972	3953	3672	4522	4257	2
1951 FED FIRM SURPLUS/DEFICIT	7760	6357	3705	4180	4136	4795	3969	3715	4566	4315	2
1952 FED FIRM SURPLUS/DEFICIT	7833	4378	3311	5024	1794	4335	3930	3827	4741	4542	2
1953 FED FIRM SURPLUS/DEFICIT	5283	2467	3627	3121	2452	3084	3985	3764	3790	3754	2
1954 FED FIRM SURPLUS/DEFICIT	5690	4888	3631	3178	1679	2957	3960	3698	4488	4212	2
1955 FED FIRM SURPLUS/DEFICIT	7970	8480	5987	3091	2322	3950	3941	4101	3973	4811	1
1956 FED FIRM SURPLUS/DEFICIT	6802	3089	3442	2022	3001	4788	3967	3682	4495	4212	2
1957 FED FIRM SURPLUS/DEFICIT	6446	5208	2442	1771	1016	4372	3939	3846	4801	4579	2
1958 FED FIRM SURPLUS/DEFICIT	2601	2467	3534	3147	2071	2758	3959	3879	4842	4355	2

1959 FED FIRM SURPLUS/DEFICIT	2891	3109	3557	2990	1645	4029	3979	3681	4477	4242	2459
1960 FED FIRM SURPLUS/DEFICIT	6549	4989	7169	7315	4970	4612	3940	3777	4725	4561	2445
1961 FED FIRM SURPLUS/DEFICIT	5804	2517	3726	3457	1431	2891	3941	3708	4550	4322	2523
1962 FED FIRM SURPLUS/DEFICIT	2967	3993	3701	3112	1985	2507	3926	4069	5082	5006	2870
1963 FED FIRM SURPLUS/DEFICIT	5455	4223	3563	3378	1439	4560	3947	4266	4518	4942	1629
1964 FED FIRM SURPLUS/DEFICIT	5105	4050	4036	3058	1699	2775	3964	3731	4604	4363	1726
1965 FED FIRM SURPLUS/DEFICIT	6866	4744	3576	3486	2328	4784	3968	3766	4615	4340	2538
1966 FED FIRM SURPLUS/DEFICIT	7652	6967	3857	3266	2310	3546	3941	4321	4879	4934	2531
1967 FED FIRM SURPLUS/DEFICIT	5939	3177	3658	3016	2053	2534	3963	3685	4533	4268	1159
1968 FED FIRM SURPLUS/DEFICIT	7417	4866	3819	2621	1692	3217	3971	3979	5133	4023	1315
1969 FED FIRM SURPLUS/DEFICIT	3065	5365	5433	4814	3766	4523	3955	3645	4521	4333	2580
1970 FED FIRM SURPLUS/DEFICIT	3226	2454	2449	2493	1543	2564	3930	4532	5601	5166	1821
1971 FED FIRM SURPLUS/DEFICIT	2374	2466	2548	2193	1564	2840	3949	3593	4466	4041	2318
1972 FED FIRM SURPLUS/DEFICIT	8019	5104	2472	2130	1075	3981	3953	3607	4555	4398	2266
1973 FED FIRM SURPLUS/DEFICIT	8001	7386	2470	2715	1836	3831	3639	2639	893	316	503
1974 FED FIRM SURPLUS/DEFICIT	2369	2465	2456	1438	-269	4627	3969	3959	4588	4186	2170
1975 FED FIRM SURPLUS/DEFICIT	8025	6538	2701	2653	1787	2128	3957	3785	4737	3219	2428
1976 FED FIRM SURPLUS/DEFICIT	4079	5145	2467	3175	3481	4765	3980	3653	4505	4290	2481
1977 FED FIRM SURPLUS/DEFICIT	7989	8574	6928	3125	2082	3127	741	-1093	176	1951	2366
1978 FED FIRM SURPLUS/DEFICIT	2499	2659	2369	1349	592	2396	3897	3534	4547	4203	2422

*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2800
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .87	1395	1395	1395	1395	1395	1395	1395	1395	1395	1395	1395

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OPERATING YEAR RUN

DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR
<i>ADJUSTED</i>	1-15	16-31								1-15	16-30
1929 FED FIRM SURPLUS/DEFICIT	6701	3818	3533	4552	2028	2423	-685	-984	668	-1012	690
1930 FED FIRM SURPLUS/DEFICIT	3579	3674	2638	3221	1587	1451	-967	-2163	324	-261	593
1931 FED FIRM SURPLUS/DEFICIT	5724	4489	2605	3363	1490	1953	-1029	-2458	-352	1510	-182
1932 FED FIRM SURPLUS/DEFICIT	2763	3445	2537	2867	347	935	2009	2967	4233	2270	1073
1933 FED FIRM SURPLUS/DEFICIT	5239	6014	4159	4589	1799	2734	3276	3130	4451	2209	1209
1934 FED FIRM SURPLUS/DEFICIT	8376	7526	4003	4962	4883	4338	3294	3187	4559	2539	1407
1935 FED FIRM SURPLUS/DEFICIT	4164	4100	4194	4284	1675	2436	3230	3772	3117	1404	1467
1936 FED FIRM SURPLUS/DEFICIT	7163	3881	4177	4716	2568	2776	2875	1509	4218	2557	1564
1937 FED FIRM SURPLUS/DEFICIT	3871	3744	3686	4830	2693	2420	-1195	-252	595	61	860
1938 FED FIRM SURPLUS/DEFICIT	2845	3111	2590	2924	-810	1149	3269	3106	4572	2380	1132
1939 FED FIRM SURPLUS/DEFICIT	3368	3326	4128	4891	2380	2276	1546	-1884	4795	3381	2080
1940 FED FIRM SURPLUS/DEFICIT	4861	3904	4013	5015	2763	2505	2027	-1370	4983	4195	2857
1941 FED FIRM SURPLUS/DEFICIT	4493	3901	2701	3483	1735	1954	-194	148	675	2192	1501
1942 FED FIRM SURPLUS/DEFICIT	5414	5388	2580	3203	1970	4275	3242	3771	2778	3151	1441
1943 FED FIRM SURPLUS/DEFICIT	6323	4450	4199	4867	2090	2526	3274	3200	4559	2548	1348
1944 FED FIRM SURPLUS/DEFICIT	6668	3597	3775	4625	2480	2416	-1021	-1462	-568	275	966
1945 FED FIRM SURPLUS/DEFICIT	3128	3025	2644	2976	585	1149	131	-1107	896	1220	99

1946 FED FIRM SURPLUS/DEFICIT	2860	2962	2648	2988	732	840	3307	3193	4596	2267	1
1947 FED FIRM SURPLUS/DEFICIT	6500	4251	4137	4754	1933	4244	3303	3233	4653	2484	1
1948 FED FIRM SURPLUS/DEFICIT	5160	3288	3917	7020	3697	4047	3301	3189	4489	2424	1
1949 FED FIRM SURPLUS/DEFICIT	8068	7581	4184	4647	2316	2713	3279	3386	4834	2821	1
1950 FED FIRM SURPLUS/DEFICIT	2865	2965	2633	2984	389	2567	3298	3167	4517	2452	1
1951 FED FIRM SURPLUS/DEFICIT	8255	6852	3900	5725	4331	4390	3314	3210	4561	2510	1
1952 FED FIRM SURPLUS/DEFICIT	8328	4873	3506	6569	1989	3930	3275	3322	4736	2737	1
1953 FED FIRM SURPLUS/DEFICIT	5778	2962	3822	4666	2647	2679	3330	3259	3785	1949	1
1954 FED FIRM SURPLUS/DEFICIT	6185	5383	3826	4723	1874	2552	3305	3193	4483	2407	1
1955 FED FIRM SURPLUS/DEFICIT	8465	8975	6182	4636	2517	3545	3286	3596	3968	3006	1
1956 FED FIRM SURPLUS/DEFICIT	7297	3584	3637	3567	3196	4383	3312	3177	4490	2407	1
1957 FED FIRM SURPLUS/DEFICIT	6941	5703	2637	3316	1211	3967	3284	3341	4796	2774	1
1958 FED FIRM SURPLUS/DEFICIT	3096	2962	3729	4692	2266	2353	3304	3374	4837	2550	1
1959 FED FIRM SURPLUS/DEFICIT	3386	3604	3752	4535	1840	3624	3324	3176	4472	2437	1
1960 FED FIRM SURPLUS/DEFICIT	7044	5484	7364	8860	5165	4207	3285	3272	4720	2756	1
1961 FED FIRM SURPLUS/DEFICIT	6299	3012	3921	5002	1626	2486	3286	3203	4545	2517	1
1962 FED FIRM SURPLUS/DEFICIT	3462	4488	3896	4657	2180	2102	3271	3564	5077	3201	1
1963 FED FIRM SURPLUS/DEFICIT	5950	4718	3758	4923	1634	4155	3292	3761	4513	3137	1
1964 FED FIRM SURPLUS/DEFICIT	5600	4545	4231	4603	1894	2370	3309	3226	4599	2558	1
1965 FED FIRM SURPLUS/DEFICIT	7361	5239	3771	5031	2523	4379	3313	3261	4610	2535	1
1966 FED FIRM SURPLUS/DEFICIT	8147	7462	4052	4811	2505	3141	3286	3816	4874	3129	1
1967 FED FIRM SURPLUS/DEFICIT	6434	3672	3853	4561	2248	2129	3308	3180	4528	2463	1
1968 FED FIRM SURPLUS/DEFICIT	7912	5361	4014	4166	1887	2812	3316	3474	5128	2218	1
1969 FED FIRM SURPLUS/DEFICIT	3560	5860	5628	6359	3961	4118	3300	3140	4516	2528	1
1970 FED FIRM SURPLUS/DEFICIT	3721	2949	2644	4038	1738	2159	3275	4027	5596	3361	1
1971 FED FIRM SURPLUS/DEFICIT	2869	2961	2743	3738	1759	2435	3294	3088	4461	2236	1
1972 FED FIRM SURPLUS/DEFICIT	8514	5599	2667	3675	1270	3576	3298	3102	4550	2593	1
1973 FED FIRM SURPLUS/DEFICIT	8496	7881	2665	4260	2031	3426	2984	2134	888	-1489	1
1974 FED FIRM SURPLUS/DEFICIT	2864	2960	2651	2983	-74	4222	3314	3454	4583	2381	1
1975 FED FIRM SURPLUS/DEFICIT	8520	7033	2896	4198	1982	1723	3302	3280	4732	1414	1
1976 FED FIRM SURPLUS/DEFICIT	4574	5640	2662	4720	3676	4360	3325	3148	4500	2485	1
1977 FED FIRM SURPLUS/DEFICIT	8484	9069	7123	4670	2277	2722	86	-1598	171	146	1
1978 FED FIRM SURPLUS/DEFICIT	2994	3154	2564	2894	787	1991	3242	3029	4542	2398	1

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OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS

UNADJUSTED	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	
1929 FED FIRM SURPLUS/DEFICIT	5867	3000	2992	2636	1995	2986	133	-348	532	655	1
1930 FED FIRM SURPLUS/DEFICIT	2745	2855	2096	1304	1553	2014	-149	-1527	188	1406	1
1931 FED FIRM SURPLUS/DEFICIT	4889	3670	2063	1447	1457	2517	-211	-1822	-489	3177	1
1932 FED FIRM SURPLUS/DEFICIT	1929	2627	1995	951	314	1498	2827	3603	4096	3938	2
1933 FED FIRM SURPLUS/DEFICIT	4405	5195	3618	2673	1766	3297	4094	3765	4314	3877	2
1934 FED FIRM SURPLUS/DEFICIT	7542	6707	3462	3046	4849	4902	4112	3823	4423	4206	2
1935 FED FIRM SURPLUS/DEFICIT	3329	3281	3653	2367	1642	2999	4048	4407	2981	3071	2
1936 FED FIRM SURPLUS/DEFICIT	6329	3062	3636	2800	2535	3339	3693	2145	4081	4224	2
1937 FED FIRM SURPLUS/DEFICIT	3036	2925	3145	2914	2660	2983	-377	384	459	1728	1
1938 FED FIRM SURPLUS/DEFICIT	2011	2293	2048	1008	-843	1712	4087	3742	4435	4048	2

PacifiCorp Capacity Sale EIS

Appendix D: Capacity Analysis

1939 FED FIRM SURPLUS/DEFICIT	2534	2507	3587	2975	2346	2840	2364	-1249	4659	5048	3148
1940 FED FIRM SURPLUS/DEFICIT	4027	3086	3472	3099	2730	3069	2845	-734	4847	5862	3924
1941 FED FIRM SURPLUS/DEFICIT	3659	3082	2160	1567	1702	2517	624	784	539	3860	2568
1942 FED FIRM SURPLUS/DEFICIT	4580	4570	2038	1286	1937	4839	4060	4407	2642	4818	2508
1943 FED FIRM SURPLUS/DEFICIT	5489	3632	3658	2950	2057	3090	4092	3835	4423	4216	2415
1944 FED FIRM SURPLUS/DEFICIT	5834	2779	3234	2708	2447	2980	-203	-826	-704	1942	2033
1945 FED FIRM SURPLUS/DEFICIT	2294	2206	2102	1060	552	1713	950	-471	759	2888	1166
1946 FED FIRM SURPLUS/DEFICIT	2026	2144	2106	1072	699	1404	4126	3829	4460	3934	2353
1947 FED FIRM SURPLUS/DEFICIT	5666	3433	3596	2837	1900	4808	4121	3869	4516	4151	2482
1948 FED FIRM SURPLUS/DEFICIT	4326	2470	3376	5104	3664	4611	4119	3825	4353	4092	2097
1949 FED FIRM SURPLUS/DEFICIT	7234	6762	3643	2730	2283	3277	4097	4022	4698	4488	2643
1950 FED FIRM SURPLUS/DEFICIT	2031	2147	2091	1068	356	3131	4116	3802	4380	4119	2283
1951 FED FIRM SURPLUS/DEFICIT	7421	6034	3359	3809	4298	4954	4132	3846	4424	4178	2378
1952 FED FIRM SURPLUS/DEFICIT	7494	4055	2965	4653	1956	4494	4093	3958	4599	4404	2602
1953 FED FIRM SURPLUS/DEFICIT	4944	2144	3281	2750	2614	3243	4148	3895	3648	3616	2178
1954 FED FIRM SURPLUS/DEFICIT	5351	4565	3285	2807	1841	3116	4123	3828	4346	4074	2249
1955 FED FIRM SURPLUS/DEFICIT	7631	8157	5641	2720	2484	4108	4104	4231	3831	4673	1261
1956 FED FIRM SURPLUS/DEFICIT	6463	2765	3096	1651	3162	4947	4130	3813	4354	4074	2122
1957 FED FIRM SURPLUS/DEFICIT	6107	4885	2096	1399	1178	4531	4102	3977	4660	4442	2625
1958 FED FIRM SURPLUS/DEFICIT	2261	2144	3188	2775	2233	2917	4122	4010	4700	4217	2376
1959 FED FIRM SURPLUS/DEFICIT	2552	2785	3211	2618	1807	4188	4142	3811	4335	4105	2321
1960 FED FIRM SURPLUS/DEFICIT	6210	4665	6823	6944	5132	4771	4103	3908	4583	4424	2308
1961 FED FIRM SURPLUS/DEFICIT	5465	2194	3380	3085	1593	3050	4104	3839	4409	4184	2385
1962 FED FIRM SURPLUS/DEFICIT	2628	3669	3355	2740	2147	2665	4089	4200	4941	4868	2733
1963 FED FIRM SURPLUS/DEFICIT	5116	3900	3216	3007	1600	4719	4110	4396	4376	4804	1491
1964 FED FIRM SURPLUS/DEFICIT	4765	3726	3690	2686	1861	2933	4128	3862	4462	4225	1588
1965 FED FIRM SURPLUS/DEFICIT	6527	4421	3230	3115	2490	4942	4131	3897	4474	4202	2400
1966 FED FIRM SURPLUS/DEFICIT	7313	6644	3510	2894	2472	3705	4105	4452	4737	4796	2394
1967 FED FIRM SURPLUS/DEFICIT	5599	2854	3312	2645	2215	2692	4126	3815	4392	4131	1021
1968 FED FIRM SURPLUS/DEFICIT	7077	4543	3473	2250	1854	3376	4134	4109	4991	3885	1177
1969 FED FIRM SURPLUS/DEFICIT	2725	5042	5087	4442	3928	4682	4118	3775	4379	4197	2442
1970 FED FIRM SURPLUS/DEFICIT	2887	2131	2103	2121	1704	2723	4093	4662	5459	5028	1683
1971 FED FIRM SURPLUS/DEFICIT	2035	2143	2202	1822	1726	2999	4113	3724	4325	3903	2180
1972 FED FIRM SURPLUS/DEFICIT	7680	4780	2126	1759	1236	4140	4116	3738	4413	4260	2128
1973 FED FIRM SURPLUS/DEFICIT	7662	7062	2124	2344	1998	3990	3802	2770	752	179	366
1974 FED FIRM SURPLUS/DEFICIT	2030	2142	2109	1067	-107	4786	4133	4089	4446	4048	2032
1975 FED FIRM SURPLUS/DEFICIT	7686	6215	2355	2282	1949	2286	4120	3916	4595	3082	2290
1976 FED FIRM SURPLUS/DEFICIT	3739	4821	2121	2804	3643	4924	4143	3783	4363	4152	2344
1977 FED FIRM SURPLUS/DEFICIT	7650	8250	6582	2753	2244	3286	904	-963	35	1813	2228
1978 FED FIRM SURPLUS/DEFICIT	2159	2336	2022	978	754	2555	4060	3665	4406	4065	2284
*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2800
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .88	1446	1446	1446	1446	1446	1446	1446	1446	1446	1446	1446

OPERATING YEAR
DATE: 03/05/93 MEDIUM LOAD
FORECAST

PEAK IN MEGAWATTS <i>ADJUSTED</i>	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15
1929 FED FIRM SURPLUS/DEFICIT	6413	3546	3238	4232	2241	2632	-471	-802	578	-1099
1930 FED FIRM SURPLUS/DEFICIT	3291	3401	2342	2900	1799	1660	-753	-1981	234	-348
1931 FED FIRM SURPLUS/DEFICIT	5435	4216	2309	3043	1703	2163	-815	-2276	-443	1423
1932 FED FIRM SURPLUS/DEFICIT	2475	3173	2241	2547	560	1144	2223	3149	4142	2184
1933 FED FIRM SURPLUS/DEFICIT	4951	5741	3864	4269	2012	2943	3490	3311	4360	2123
1934 FED FIRM SURPLUS/DEFICIT	8088	7253	3708	4642	5095	4548	3508	3369	4469	2452
1935 FED FIRM SURPLUS/DEFICIT	3875	3827	3899	3963	1888	2645	3444	3953	3027	1317
1936 FED FIRM SURPLUS/DEFICIT	6875	3608	3882	4396	2781	2985	3089	1691	4127	2470
1937 FED FIRM SURPLUS/DEFICIT	3582	3471	3391	4510	2906	2629	-981	-70	505	-26
1938 FED FIRM SURPLUS/DEFICIT	2557	2839	2294	2604	-597	1358	3483	3288	4481	2294
1939 FED FIRM SURPLUS/DEFICIT	3080	3053	3833	4571	2592	2486	1760	-1703	4705	3294
1940 FED FIRM SURPLUS/DEFICIT	4573	3632	3718	4695	2976	2715	2241	-1188	4893	4108
1941 FED FIRM SURPLUS/DEFICIT	4205	3628	2406	3163	1948	2163	20	330	585	2106
1942 FED FIRM SURPLUS/DEFICIT	5126	5116	2284	2882	2183	4485	3456	3953	2688	3064
1943 FED FIRM SURPLUS/DEFICIT	6035	4178	3904	4546	2303	2736	3488	3381	4469	2462
1944 FED FIRM SURPLUS/DEFICIT	6380	3325	3480	4304	2693	2626	-807	-1280	-658	188
1945 FED FIRM SURPLUS/DEFICIT	2840	2752	2348	2656	798	1359	346	-925	805	1134
1946 FED FIRM SURPLUS/DEFICIT	2572	2690	2352	2668	945	1050	3522	3375	4506	2180
1947 FED FIRM SURPLUS/DEFICIT	6212	3979	3842	4433	2146	4454	3517	3415	4562	2397
1948 FED FIRM SURPLUS/DEFICIT	4872	3016	3622	6700	3910	4257	3515	3371	4399	2338
1949 FED FIRM SURPLUS/DEFICIT	7780	7308	3889	4326	2529	2923	3493	3568	4744	2734
1950 FED FIRM SURPLUS/DEFICIT	2577	2693	2337	2664	602	2777	3512	3348	4426	2365
1951 FED FIRM SURPLUS/DEFICIT	7967	6580	3605	5405	4544	4600	3528	3392	4470	2424
1952 FED FIRM SURPLUS/DEFICIT	8040	4601	3211	6249	2202	4140	3489	3504	4645	2650
1953 FED FIRM SURPLUS/DEFICIT	5490	2690	3527	4346	2860	2889	3544	3441	3694	1862
1954 FED FIRM SURPLUS/DEFICIT	5897	5111	3531	4403	2087	2762	3519	3374	4392	2320
1955 FED FIRM SURPLUS/DEFICIT	8177	8703	5887	4316	2730	3754	3500	3777	3877	2919
1956 FED FIRM SURPLUS/DEFICIT	7009	3311	3342	3247	3408	4593	3526	3359	4400	2320
1957 FED FIRM SURPLUS/DEFICIT	6653	5431	2342	2995	1424	4177	3498	3523	4706	2688
1958 FED FIRM SURPLUS/DEFICIT	2807	2690	3434	4371	2479	2563	3518	3556	4746	2463
1959 FED FIRM SURPLUS/DEFICIT	3098	3331	3457	4214	2053	3834	3538	3357	4381	2351
1960 FED FIRM SURPLUS/DEFICIT	6756	5211	7069	8540	5378	4417	3499	3454	4629	2670
1961 FED FIRM SURPLUS/DEFICIT	6011	2740	3626	4681	1839	2696	3500	3385	4455	2430
1962 FED FIRM SURPLUS/DEFICIT	3174	4215	3601	4336	2393	2311	3485	3746	4987	3114
1963 FED FIRM SURPLUS/DEFICIT	5662	4446	3462	4603	1846	4365	3506	3942	4422	3050
1964 FED FIRM SURPLUS/DEFICIT	5311	4272	3936	4282	2107	2579	3524	3408	4508	2471
1965 FED FIRM SURPLUS/DEFICIT	7073	4967	3476	4711	2736	4588	3527	3443	4520	2448
1966 FED FIRM SURPLUS/DEFICIT	7859	7190	3756	4490	2718	3351	3501	3998	4783	3042
1967 FED FIRM SURPLUS/DEFICIT	6145	3400	3558	4241	2461	2338	3522	3361	4438	2377
1968 FED FIRM SURPLUS/DEFICIT	7623	5089	3719	3846	2100	3022	3530	3655	5037	2131
1969 FED FIRM SURPLUS/DEFICIT	3271	5588	5333	6038	4174	4328	3514	3321	4425	2443
1970 FED FIRM SURPLUS/DEFICIT	3433	2677	2349	3717	1950	2369	3489	4208	5505	3274
1971 FED FIRM SURPLUS/DEFICIT	2581	2689	2448	3418	1972	2645	3509	3270	4371	2149
1972 FED FIRM SURPLUS/DEFICIT	8226	5326	2372	3355	1482	3786	3512	3284	4459	2506

1973 FED FIRM SURPLUS/DEFICIT	8208	7608	2370	3940	2244	3636	3198	2316	798	-1575	-788
1974 FED FIRM SURPLUS/DEFICIT	2576	2688	2355	2663	139	4432	3529	3635	4492	2294	878
1975 FED FIRM SURPLUS/DEFICIT	8232	6761	2601	3878	2195	1932	3516	3462	4641	1328	1136
1976 FED FIRM SURPLUS/DEFICIT	4285	5367	2367	4400	3889	4570	3539	3329	4409	2398	1190
1977 FED FIRM SURPLUS/DEFICIT	8196	8796	6828	4349	2490	2932	300	-1417	81	59	1074
1978 FED FIRM SURPLUS/DEFICIT	2705	2882	2268	2574	1000	2201	3456	3211	4452	2311	1130

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OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR
UNADJUSTED	1-15	16-31								1-15	16-30
1929 FED FIRM SURPLUS/DEFICIT	6019	3166	3142	2770	2142	3114	250	-219	672	811	1913
1930 FED FIRM SURPLUS/DEFICIT	2897	3022	2247	1439	1700	2142	-32	-1398	328	1561	1815
1931 FED FIRM SURPLUS/DEFICIT	5041	3837	2214	1581	1603	2644	-94	-1693	-349	3332	1041
1932 FED FIRM SURPLUS/DEFICIT	2081	2793	2146	1085	460	1625	2944	3732	4236	4093	2296
1933 FED FIRM SURPLUS/DEFICIT	4557	5362	3768	2807	1913	3425	4211	3895	4455	4032	2431
1934 FED FIRM SURPLUS/DEFICIT	7694	6874	3612	3180	4996	5029	4230	3952	4563	4362	2630
1935 FED FIRM SURPLUS/DEFICIT	3481	3448	3803	2502	1788	3127	4165	4537	3121	3227	2690
1936 FED FIRM SURPLUS/DEFICIT	6481	3229	3786	2934	2681	3467	3810	2274	4221	4380	2787
1937 FED FIRM SURPLUS/DEFICIT	3188	3092	3295	3048	2806	3110	-260	513	599	1884	2083
1938 FED FIRM SURPLUS/DEFICIT	2163	2459	2199	1142	-697	1839	4204	3871	4575	4203	2354
1939 FED FIRM SURPLUS/DEFICIT	2686	2674	3737	3109	2493	2967	2481	-1119	4799	5204	3303
1940 FED FIRM SURPLUS/DEFICIT	4179	3252	3622	3233	2876	3196	2962	-605	4987	6017	4080
1941 FED FIRM SURPLUS/DEFICIT	3811	3249	2310	1701	1848	2644	741	913	679	4015	2723
1942 FED FIRM SURPLUS/DEFICIT	4732	4736	2189	1420	2083	4966	4177	4536	2782	4974	2665
1943 FED FIRM SURPLUS/DEFICIT	5641	3799	3809	3084	2203	3217	4209	3965	4563	4371	2571
1944 FED FIRM SURPLUS/DEFICIT	5986	2946	3384	2843	2593	3107	-86	-697	-564	2098	2189
1945 FED FIRM SURPLUS/DEFICIT	2446	2373	2253	1194	698	1840	1067	-342	899	3043	1321
1946 FED FIRM SURPLUS/DEFICIT	2178	2310	2257	1206	845	1531	4243	3958	4600	4089	2509
1947 FED FIRM SURPLUS/DEFICIT	5818	3600	3746	2972	2047	4935	4239	3998	4656	4307	2638
1948 FED FIRM SURPLUS/DEFICIT	4478	2636	3526	5238	3810	4738	4237	3954	4493	4247	2252
1949 FED FIRM SURPLUS/DEFICIT	7386	6929	3793	2864	2429	3404	4214	4151	4838	4644	2799
1950 FED FIRM SURPLUS/DEFICIT	2183	2313	2242	1202	502	3258	4234	3932	4520	4275	2439
1951 FED FIRM SURPLUS/DEFICIT	7573	6201	3509	3943	4444	5081	4250	3975	4564	4333	2533
1952 FED FIRM SURPLUS/DEFICIT	7646	4222	3115	4787	2102	4621	4211	4088	4740	4559	2757
1953 FED FIRM SURPLUS/DEFICIT	5096	2310	3432	2884	2760	3370	4265	4024	3788	3772	2334
1954 FED FIRM SURPLUS/DEFICIT	5503	4732	3435	2941	1987	3243	4241	3958	4487	4230	2404
1955 FED FIRM SURPLUS/DEFICIT	7783	8324	5792	2854	2630	4235	4221	4361	3972	4828	1417
1956 FED FIRM SURPLUS/DEFICIT	6615	2932	3246	1785	3309	5074	4248	3942	4494	4229	2277
1957 FED FIRM SURPLUS/DEFICIT	6259	5052	2246	1534	1324	4658	4220	4106	4800	4596	2781
1958 FED FIRM SURPLUS/DEFICIT	2413	2310	3338	2909	2379	3044	4239	4139	4840	4373	2532
1959 FED FIRM SURPLUS/DEFICIT	2704	2952	3361	2752	1953	4315	4260	3941	4476	4260	2477
1960 FED FIRM SURPLUS/DEFICIT	6362	4832	6973	7078	5278	4898	4221	4037	4724	4579	2463
1961 FED FIRM SURPLUS/DEFICIT	5617	2360	3531	3219	1739	3177	4221	3968	4549	4340	2541
1962 FED FIRM SURPLUS/DEFICIT	2780	3836	3505	2875	2293	2793	4207	4330	5081	5024	2888
1963 FED FIRM SURPLUS/DEFICIT	5268	4066	3367	3141	1747	4846	4227	4526	4516	4960	1647
1964 FED FIRM SURPLUS/DEFICIT	4917	3893	3840	2820	2007	3061	4245	3991	4603	4381	1744
1965 FED FIRM SURPLUS/DEFICIT	6679	4588	3380	3249	2636	5069	4249	4026	4614	4358	2556

1966 FED FIRM SURPLUS/DEFICIT	7465	6810	3661	3028	2618	3832	4222	4581	4877	4952	2
1967 FED FIRM SURPLUS/DEFICIT	5751	3020	3462	2779	2361	2819	4243	3945	4532	4286	1
1968 FED FIRM SURPLUS/DEFICIT	7229	4709	3623	2384	2000	3503	4251	4239	5131	4041	1
1969 FED FIRM SURPLUS/DEFICIT	2877	5209	5237	4576	4074	4809	4236	3905	4519	4351	2
1970 FED FIRM SURPLUS/DEFICIT	3039	2297	2253	2255	1851	2850	4210	4792	5599	5184	1
1971 FED FIRM SURPLUS/DEFICIT	2187	2309	2352	1956	1872	3126	4230	3853	4465	4058	2
1972 FED FIRM SURPLUS/DEFICIT	7832	4947	2276	1893	1383	4267	4234	3867	4553	4416	2
1973 FED FIRM SURPLUS/DEFICIT	7814	7229	2274	2478	2144	4117	3919	2899	892	334	
1974 FED FIRM SURPLUS/DEFICIT	2182	2308	2260	1201	39	4913	4250	4219	4586	4203	2
1975 FED FIRM SURPLUS/DEFICIT	7838	6382	2505	2416	2095	2413	4238	4045	4735	3237	2
1976 FED FIRM SURPLUS/DEFICIT	3891	4988	2271	2938	3790	5051	4261	3913	4503	4307	2
1977 FED FIRM SURPLUS/DEFICIT	7802	8417	6732	2887	2390	3413	1021	-833	175	1968	2
1978 FED FIRM SURPLUS/DEFICIT	2311	2502	2173	1112	900	2682	4178	3795	4546	4220	2
*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1
*Less cold weather adjustment					-1400	-1500	-1500	-1500	-1500		
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-1
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .89	1462	1462	1462	1462	1462	1462	1462	1462	1462	1462	1

2009-10
RUN

OPERATING YEAR

DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS

ADJUSTED

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	
1929 FED FIRM SURPLUS/DEFICIT	6581	3728	3404	4382	2404	2776	-338	-657	734	-927	1
1930 FED FIRM SURPLUS/DEFICIT	3459	3584	2509	3051	1962	1804	-620	-1836	390	-177	
1931 FED FIRM SURPLUS/DEFICIT	5603	4399	2476	3193	1865	2306	-682	-2131	-287	1594	
1932 FED FIRM SURPLUS/DEFICIT	2643	3355	2408	2697	722	1287	2356	3294	4298	2355	1
1933 FED FIRM SURPLUS/DEFICIT	5119	5924	4030	4419	2175	3087	3623	3457	4517	2294	1
1934 FED FIRM SURPLUS/DEFICIT	8256	7436	3874	4792	5258	4691	3642	3514	4625	2624	1
1935 FED FIRM SURPLUS/DEFICIT	4043	4010	4065	4114	2050	2789	3577	4099	3183	1489	1
1936 FED FIRM SURPLUS/DEFICIT	7043	3791	4048	4546	2943	3129	3222	1836	4283	2642	1
1937 FED FIRM SURPLUS/DEFICIT	3750	3654	3557	4660	3068	2772	-848	75	661	146	
1938 FED FIRM SURPLUS/DEFICIT	2725	3021	2461	2754	-435	1501	3616	3433	4637	2465	1
1939 FED FIRM SURPLUS/DEFICIT	3248	3236	3999	4721	2755	2629	1893	-1557	4861	3466	2
1940 FED FIRM SURPLUS/DEFICIT	4741	3814	3884	4845	3138	2858	2374	-1043	5049	4279	2
1941 FED FIRM SURPLUS/DEFICIT	4373	3811	2572	3313	2110	2306	153	475	741	2277	1
1942 FED FIRM SURPLUS/DEFICIT	5294	5298	2451	3032	2345	4628	3589	4098	2844	3236	1
1943 FED FIRM SURPLUS/DEFICIT	6203	4361	4071	4696	2465	2879	3621	3527	4625	2633	1
1944 FED FIRM SURPLUS/DEFICIT	6548	3508	3646	4455	2855	2769	-674	-1135	-502	360	1
1945 FED FIRM SURPLUS/DEFICIT	3008	2935	2515	2806	960	1502	479	-780	961	1305	
1946 FED FIRM SURPLUS/DEFICIT	2740	2872	2519	2818	1107	1193	3655	3520	4662	2351	1
1947 FED FIRM SURPLUS/DEFICIT	6380	4162	4008	4584	2309	4597	3651	3560	4718	2569	1
1948 FED FIRM SURPLUS/DEFICIT	5040	3198	3788	6850	4072	4400	3649	3516	4555	2509	1
1949 FED FIRM SURPLUS/DEFICIT	7948	7491	4055	4476	2691	3066	3626	3713	4900	2906	1
1950 FED FIRM SURPLUS/DEFICIT	2745	2875	2504	2814	764	2920	3646	3494	4582	2537	1
1951 FED FIRM SURPLUS/DEFICIT	8135	6763	3771	5555	4706	4743	3662	3537	4626	2595	1

PacifiCorp Capacity Sale EIS

Appendix D: Capacity Analysis

1952 FED FIRM SURPLUS/DEFICIT	8208	4784	3377	6399	2364	4283	3623	3650	4802	2821	1619
1953 FED FIRM SURPLUS/DEFICIT	5658	2872	3694	4496	3022	3032	3677	3586	3850	2034	1196
1954 FED FIRM SURPLUS/DEFICIT	6065	5294	3697	4553	2249	2905	3653	3520	4549	2492	1266
1955 FED FIRM SURPLUS/DEFICIT	8345	8886	6054	4466	2892	3897	3633	3923	4034	3090	279
1956 FED FIRM SURPLUS/DEFICIT	7177	3494	3508	3397	3571	4736	3660	3504	4556	2491	1139
1957 FED FIRM SURPLUS/DEFICIT	6821	5614	2508	3146	1586	4320	3632	3668	4862	2858	1643
1958 FED FIRM SURPLUS/DEFICIT	2975	2872	3600	4521	2641	2706	3651	3701	4902	2635	1394
1959 FED FIRM SURPLUS/DEFICIT	3266	3514	3623	4364	2215	3977	3672	3503	4538	2522	1339
1960 FED FIRM SURPLUS/DEFICIT	6924	5394	7235	8690	5540	4560	3633	3599	4786	2841	1325
1961 FED FIRM SURPLUS/DEFICIT	6179	2922	3793	4831	2001	2839	3633	3530	4611	2602	1403
1962 FED FIRM SURPLUS/DEFICIT	3342	4398	3767	4487	2555	2455	3619	3892	5143	3286	1750
1963 FED FIRM SURPLUS/DEFICIT	5830	4628	3629	4753	2009	4508	3639	4088	4578	3222	509
1964 FED FIRM SURPLUS/DEFICIT	5479	4455	4102	4432	2269	2723	3657	3553	4665	2643	606
1965 FED FIRM SURPLUS/DEFICIT	7241	5150	3642	4861	2898	4731	3661	3588	4676	2620	1418
1966 FED FIRM SURPLUS/DEFICIT	8027	7372	3923	4640	2880	3494	3634	4143	4939	3214	1411
1967 FED FIRM SURPLUS/DEFICIT	6313	3582	3724	4391	2623	2481	3655	3507	4594	2548	38
1968 FED FIRM SURPLUS/DEFICIT	7791	5271	3885	3996	2262	3165	3663	3801	5193	2303	195
1969 FED FIRM SURPLUS/DEFICIT	3439	5771	5499	6188	4336	4471	3648	3467	4581	2613	1459
1970 FED FIRM SURPLUS/DEFICIT	3601	2859	2515	3867	2113	2512	3622	4354	5661	3446	701
1971 FED FIRM SURPLUS/DEFICIT	2749	2871	2614	3568	2134	2788	3642	3415	4527	2320	1197
1972 FED FIRM SURPLUS/DEFICIT	8394	5509	2538	3505	1645	3929	3646	3429	4615	2678	1146
1973 FED FIRM SURPLUS/DEFICIT	8376	7791	2536	4090	2406	3779	3331	2461	954	-1404	-617
1974 FED FIRM SURPLUS/DEFICIT	2744	2870	2522	2813	301	4575	3662	3781	4648	2465	1050
1975 FED FIRM SURPLUS/DEFICIT	8400	6944	2767	4028	2357	2075	3650	3607	4797	1499	1308
1976 FED FIRM SURPLUS/DEFICIT	4453	5550	2533	4550	4052	4713	3673	3475	4565	2569	1361
1977 FED FIRM SURPLUS/DEFICIT	8364	8979	6994	4499	2652	3075	433	-1271	237	230	1246
1978 FED FIRM SURPLUS/DEFICIT	2873	3064	2435	2724	1162	2344	3590	3357	4608	2482	1302

2010-11

OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS

UNADJUSTED

	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR
	1-15	16-31								1-15	16-30
1929 FED FIRM SURPLUS/DEFICIT	5998	3162	3118	2764	2081	3043	163	-305	594	747	1850
1930 FED FIRM SURPLUS/DEFICIT	2876	3017	2222	1433	1639	2071	-119	-1484	250	1498	1752
1931 FED FIRM SURPLUS/DEFICIT	5021	3832	2189	1575	1543	2574	-181	-1779	-426	3269	978
1932 FED FIRM SURPLUS/DEFICIT	2061	2789	2121	1079	399	1555	2857	3646	4159	4029	2232
1933 FED FIRM SURPLUS/DEFICIT	4537	5357	3743	2801	1852	3354	4124	3809	4377	3969	2368
1934 FED FIRM SURPLUS/DEFICIT	7673	6869	3588	3174	4935	4959	4142	3866	4485	4298	2566
1935 FED FIRM SURPLUS/DEFICIT	3461	3443	3778	2496	1727	3056	4078	4451	3043	3163	2627
1936 FED FIRM SURPLUS/DEFICIT	6461	3224	3762	2928	2621	3396	3723	2188	4144	4316	2723
1937 FED FIRM SURPLUS/DEFICIT	3168	3087	3271	3042	2746	3040	-347	427	521	1820	2020
1938 FED FIRM SURPLUS/DEFICIT	2143	2455	2174	1136	-757	1769	4117	3785	4498	4140	2291
1939 FED FIRM SURPLUS/DEFICIT	2666	2669	3713	3103	2432	2897	2394	-1205	4721	5140	3240
1940 FED FIRM SURPLUS/DEFICIT	4158	3248	3597	3227	2816	3126	2875	-691	4909	5954	4016
1941 FED FIRM SURPLUS/DEFICIT	3791	3244	2285	1695	1788	2574	654	827	601	3952	2660
1942 FED FIRM SURPLUS/DEFICIT	4711	4732	2164	1414	2022	4896	4090	4450	2704	4910	2601
1943 FED FIRM SURPLUS/DEFICIT	5620	3794	3784	3078	2142	3147	4122	3879	4485	4307	2507
1944 FED FIRM SURPLUS/DEFICIT	5965	2941	3360	2837	2533	3037	-173	-783	-642	2034	2125

1945 FED FIRM SURPLUS/DEFICIT	2425	2368	2228	1188	637	1770	980	-428	822	2980	1
1946 FED FIRM SURPLUS/DEFICIT	2158	2306	2232	1200	785	1461	4156	3872	4522	4026	2
1947 FED FIRM SURPLUS/DEFICIT	5797	3595	3722	2966	1986	4865	4151	3912	4579	4243	2
1948 FED FIRM SURPLUS/DEFICIT	4458	2632	3501	5232	3750	4668	4149	3868	4415	4184	2
1949 FED FIRM SURPLUS/DEFICIT	7365	6924	3768	2858	2369	3334	4127	4065	4760	4580	2
1950 FED FIRM SURPLUS/DEFICIT	2163	2309	2217	1196	442	3188	4146	3846	4443	4211	2
1951 FED FIRM SURPLUS/DEFICIT	7552	6196	3485	3937	4384	5011	4162	3889	4487	4270	2
1952 FED FIRM SURPLUS/DEFICIT	7625	4217	3090	4781	2042	4551	4123	4002	4662	4496	2
1953 FED FIRM SURPLUS/DEFICIT	5075	2306	3407	2878	2699	3300	4178	3938	3711	3708	2
1954 FED FIRM SURPLUS/DEFICIT	5482	4727	3411	2935	1926	3173	4153	3872	4409	4166	2
1955 FED FIRM SURPLUS/DEFICIT	7762	8319	5767	2848	2570	4165	4134	4275	3894	4765	1
1956 FED FIRM SURPLUS/DEFICIT	6594	2927	3221	1779	3248	5004	4160	3856	4416	4166	2
1957 FED FIRM SURPLUS/DEFICIT	6238	5047	2222	1528	1264	4588	4132	4020	4722	4533	2
1958 FED FIRM SURPLUS/DEFICIT	2393	2306	3313	2903	2319	2973	4152	4053	4763	4309	2
1959 FED FIRM SURPLUS/DEFICIT	2684	2947	3337	2746	1892	4245	4172	3854	4398	4197	2
1960 FED FIRM SURPLUS/DEFICIT	6341	4827	6949	7072	5217	4828	4133	3951	4646	4516	2
1961 FED FIRM SURPLUS/DEFICIT	5596	2355	3506	3214	1678	3107	4134	3882	4471	4276	2
1962 FED FIRM SURPLUS/DEFICIT	2759	3831	3481	2869	2233	2722	4120	4244	5003	4960	2
1963 FED FIRM SURPLUS/DEFICIT	5248	4062	3342	3135	1686	4775	4140	4440	4439	4897	1
1964 FED FIRM SURPLUS/DEFICIT	4897	3888	3816	2815	1946	2990	4158	3905	4525	4317	1
1965 FED FIRM SURPLUS/DEFICIT	6658	4583	3356	3243	2575	4999	4161	3940	4536	4294	2
1966 FED FIRM SURPLUS/DEFICIT	7444	6806	3636	3023	2558	3762	4135	4495	4800	4888	2
1967 FED FIRM SURPLUS/DEFICIT	5731	3015	3438	2773	2300	2749	4156	3858	4454	4223	1
1968 FED FIRM SURPLUS/DEFICIT	7209	4705	3599	2378	1940	3433	4164	4153	5054	3977	1
1969 FED FIRM SURPLUS/DEFICIT	2857	5204	5212	4570	4014	4739	4148	3818	4442	4288	2
1970 FED FIRM SURPLUS/DEFICIT	3018	2293	2229	2249	1790	2780	4123	4705	5522	5120	1
1971 FED FIRM SURPLUS/DEFICIT	2167	2305	2327	1950	1812	3056	4143	3767	4387	3994	2
1972 FED FIRM SURPLUS/DEFICIT	7811	4942	2252	1887	1322	4197	4146	3781	4476	4352	2
1973 FED FIRM SURPLUS/DEFICIT	7793	7224	2250	2472	2083	4047	3832	2813	814	271	
1974 FED FIRM SURPLUS/DEFICIT	2162	2304	2235	1195	-22	4843	4163	4133	4509	4140	2
1975 FED FIRM SURPLUS/DEFICIT	7817	6377	2480	2410	2035	2343	4151	3959	4658	3174	2
1976 FED FIRM SURPLUS/DEFICIT	3871	4983	2247	2932	3729	4981	4173	3827	4426	4244	2
1977 FED FIRM SURPLUS/DEFICIT	7781	8412	6708	2882	2330	3343	934	-920	97	1905	2
1978 FED FIRM SURPLUS/DEFICIT	2291	2498	2148	1106	840	2612	4091	3708	4468	4157	2
*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-3
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .90	1486	1486	1486	1486	1486	1486	1486	1486	1486	1486	1
2010-11											
RUN											
OPERATING YEAR											
DATE: 03/05/93 MEDIUM LOAD											
FORECAST											
PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	.
ADJUSTED	1-15	16-31								1-15	1
1929 FED FIRM SURPLUS/DEFICIT	6584	3748	3404	4400	2367	2729	-401	-719	680	-967	
1930 FED FIRM SURPLUS/DEFICIT	3462	3603	2508	3069	1925	1757	-683	-1898	336	-216	

1930 FED FIRM SURPLUS/DEFICIT	5607	4418	2475	3211	1829	2260	-745	-2193	-340	1555	-136
1931 FED FIRM SURPLUS/DEFICIT	2647	3375	2407	2715	685	1241	2293	3232	4245	2315	1118
1932 FED FIRM SURPLUS/DEFICIT	5123	5943	4029	4437	2138	3040	3560	3395	4463	2255	1254
1933 FED FIRM SURPLUS/DEFICIT	8259	7455	3874	4810	5221	4645	3578	3452	4571	2584	1452
1934 FED FIRM SURPLUS/DEFICIT	4047	4029	4064	4132	2013	2742	3514	4037	3129	1449	1513
1935 FED FIRM SURPLUS/DEFICIT	7047	3810	4048	4564	2907	3082	3159	1774	4230	2602	1609
1936 FED FIRM SURPLUS/DEFICIT	3754	3673	3557	4678	3032	2726	-911	13	607	106	906
1937 FED FIRM SURPLUS/DEFICIT	2729	3041	2460	2772	-471	1455	3553	3371	4584	2426	1177
1938 FED FIRM SURPLUS/DEFICIT	3252	3255	3999	4739	2718	2583	1830	-1619	4807	3426	2126
1939 FED FIRM SURPLUS/DEFICIT	4744	3834	3883	4863	3102	2812	2311	-1105	4995	4240	2902
1940 FED FIRM SURPLUS/DEFICIT	4377	3830	2571	3331	2074	2260	90	413	687	2238	1546
1941 FED FIRM SURPLUS/DEFICIT	5297	5318	2450	3050	2308	4582	3526	4036	2790	3196	1487
1942 FED FIRM SURPLUS/DEFICIT	6206	4380	4070	4714	2428	2833	3558	3465	4571	2593	1393
1943 FED FIRM SURPLUS/DEFICIT	6551	3527	3646	4473	2819	2723	-737	-1197	-556	320	1011
1944 FED FIRM SURPLUS/DEFICIT	3011	2954	2514	2824	923	1456	416	-842	908	1266	144
1945 FED FIRM SURPLUS/DEFICIT	2744	2892	2518	2836	1071	1147	3592	3458	4608	2312	1331
1946 FED FIRM SURPLUS/DEFICIT	6383	4181	4008	4602	2272	4551	3587	3498	4665	2529	1460
1947 FED FIRM SURPLUS/DEFICIT	5044	3218	3787	6868	4036	4354	3585	3454	4501	2470	1075
1948 FED FIRM SURPLUS/DEFICIT	7951	7510	4054	4494	2655	3020	3563	3651	4846	2866	1621
1949 FED FIRM SURPLUS/DEFICIT	2749	2895	2503	2832	728	2874	3582	3432	4529	2497	1261
1950 FED FIRM SURPLUS/DEFICIT	8138	6782	3771	5573	4670	4697	3598	3475	4573	2556	1356
1951 FED FIRM SURPLUS/DEFICIT	8211	4803	3376	6417	2328	4237	3559	3588	4748	2782	1580
1952 FED FIRM SURPLUS/DEFICIT	5661	2892	3693	4514	2985	2986	3614	3524	3797	1994	1156
1953 FED FIRM SURPLUS/DEFICIT	6068	5313	3697	4571	2212	2859	3589	3458	4495	2452	1228
1954 FED FIRM SURPLUS/DEFICIT	8348	8905	6053	4484	2856	3851	3570	3861	3980	3051	239
1955 FED FIRM SURPLUS/DEFICIT	7180	3513	3507	3415	3534	4690	3596	3442	4502	2452	1100
1956 FED FIRM SURPLUS/DEFICIT	6824	5633	2508	3164	1550	4274	3568	3606	4808	2819	1603
1957 FED FIRM SURPLUS/DEFICIT	2979	2892	3599	4539	2605	2659	3588	3639	4849	2595	1354
1958 FED FIRM SURPLUS/DEFICIT	3270	3533	3623	4382	2178	3931	3608	3440	4484	2483	1299
1959 FED FIRM SURPLUS/DEFICIT	6927	5413	7235	8708	5503	4514	3569	3537	4732	2802	1286
1960 FED FIRM SURPLUS/DEFICIT	6182	2941	3792	4850	1964	2793	3570	3468	4557	2562	1363
1961 FED FIRM SURPLUS/DEFICIT	3345	4417	3767	4505	2519	2408	3556	3830	5089	3246	1711
1962 FED FIRM SURPLUS/DEFICIT	5834	4648	3628	4771	1972	4461	3576	4026	4525	3183	469
1963 FED FIRM SURPLUS/DEFICIT	5483	4474	4102	4451	2232	2676	3594	3491	4611	2603	566
1964 FED FIRM SURPLUS/DEFICIT	7244	5169	3642	4879	2861	4685	3597	3526	4622	2580	1378
1965 FED FIRM SURPLUS/DEFICIT	8030	7392	3922	4659	2844	3448	3571	4081	4886	3174	1372
1966 FED FIRM SURPLUS/DEFICIT	6317	3601	3724	4409	2586	2435	3592	3444	4540	2509	-1
1967 FED FIRM SURPLUS/DEFICIT	7795	5291	3885	4014	2226	3119	3600	3739	5140	2263	155
1968 FED FIRM SURPLUS/DEFICIT	3443	5790	5498	6206	4300	4425	3584	3404	4528	2574	1420
1969 FED FIRM SURPLUS/DEFICIT	3604	2879	2515	3885	2076	2466	3559	4291	5608	3406	661
1970 FED FIRM SURPLUS/DEFICIT	2753	2891	2613	3586	2098	2742	3579	3353	4473	2280	1158
1971 FED FIRM SURPLUS/DEFICIT	8397	5528	2538	3523	1608	3883	3582	3367	4562	2638	1106
1972 FED FIRM SURPLUS/DEFICIT	8379	7810	2536	4108	2369	3733	3268	2399	900	-1443	-656
1973 FED FIRM SURPLUS/DEFICIT	2748	2890	2521	2831	264	4529	3599	3719	4595	2426	1010
1974 FED FIRM SURPLUS/DEFICIT	8403	6963	2766	4046	2321	2029	3587	3545	4744	1460	1268
1975 FED FIRM SURPLUS/DEFICIT	4457	5569	2533	4568	4015	4667	3609	3413	4512	2530	1322
1976 FED FIRM SURPLUS/DEFICIT	8367	8998	6994	4518	2616	3029	370	-1334	183	191	1207
1977 FED FIRM SURPLUS/DEFICIT	2877	3084	2434	2742	1126	2298	3527	3294	4554	2443	1262
1978 FED FIRM SURPLUS/DEFICIT	586	586	286	1636	286	-314	-564	-414	86	-1714	-1114

OPERATING YEAR

RUN DATE: 03/05/93 MEDIUM LOAD

FORECAST

PEAK IN MEGAWATTS

	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	/
UNADJUSTED	1-15	16-31								1-15	16
1929 FED FIRM SURPLUS/DEFICIT	5947	3081	3062	2635	1935	2885	-8	-462	455	618	1
1930 FED FIRM SURPLUS/DEFICIT	2825	2937	2166	1304	1494	1913	-290	-1641	111	1368	1
1931 FED FIRM SURPLUS/DEFICIT	4970	3752	2133	1446	1397	2416	-352	-1936	-565	3139	
1932 FED FIRM SURPLUS/DEFICIT	2009	2708	2065	950	254	1397	2687	3489	4020	3900	2
1933 FED FIRM SURPLUS/DEFICIT	4486	5277	3687	2672	1706	3196	3954	3652	4238	3839	2
1934 FED FIRM SURPLUS/DEFICIT	7622	6789	3531	3045	4789	4801	3972	3709	4346	4168	2
1935 FED FIRM SURPLUS/DEFICIT	3410	3363	3722	2367	1582	2898	3908	4294	2904	3033	2
1936 FED FIRM SURPLUS/DEFICIT	6410	3144	3706	2799	2475	3238	3553	2031	4005	4187	2
1937 FED FIRM SURPLUS/DEFICIT	3117	3006	3215	2913	2600	2882	-518	270	383	1691	1
1938 FED FIRM SURPLUS/DEFICIT	2091	2374	2118	1007	-903	1611	3946	3628	4359	4010	2
1939 FED FIRM SURPLUS/DEFICIT	2615	2588	3657	2974	2287	2739	2223	-1362	4583	5011	3
1940 FED FIRM SURPLUS/DEFICIT	4107	3167	3541	3098	2670	2968	2705	-848	4770	5824	3
1941 FED FIRM SURPLUS/DEFICIT	3740	3164	2229	1566	1642	2416	484	670	462	3822	2
1942 FED FIRM SURPLUS/DEFICIT	4660	4651	2108	1286	1877	4738	3919	4293	2565	4781	2
1943 FED FIRM SURPLUS/DEFICIT	5569	3713	3728	2949	1997	2989	3952	3722	4346	4178	2
1944 FED FIRM SURPLUS/DEFICIT	5914	2860	3303	2708	2387	2879	-343	-940	-781	1904	1
1945 FED FIRM SURPLUS/DEFICIT	2374	2288	2172	1059	492	1612	809	-585	683	2850	1
1946 FED FIRM SURPLUS/DEFICIT	2106	2225	2176	1071	639	1303	3985	3715	4383	3896	2
1947 FED FIRM SURPLUS/DEFICIT	5746	3514	3665	2837	1840	4707	3981	3755	4440	4114	2
1948 FED FIRM SURPLUS/DEFICIT	4407	2551	3445	5103	3604	4510	3979	3711	4277	4054	2
1949 FED FIRM SURPLUS/DEFICIT	7314	6844	3712	2730	2223	3176	3957	3908	4621	4450	2
1950 FED FIRM SURPLUS/DEFICIT	2111	2228	2161	1067	296	3030	3976	3689	4304	4082	2
1951 FED FIRM SURPLUS/DEFICIT	7501	6115	3429	3808	4238	4853	3992	3732	4348	4140	2
1952 FED FIRM SURPLUS/DEFICIT	7574	4136	3034	4652	1896	4393	3953	3845	4523	4366	2
1953 FED FIRM SURPLUS/DEFICIT	5024	2225	3351	2749	2554	3142	4008	3781	3572	3579	2
1954 FED FIRM SURPLUS/DEFICIT	5431	4646	3355	2806	1781	3015	3983	3715	4270	4037	2
1955 FED FIRM SURPLUS/DEFICIT	7711	8238	5711	2719	2424	4007	3963	4118	3755	4635	1
1956 FED FIRM SURPLUS/DEFICIT	6543	2847	3165	1650	3103	4846	3990	3699	4278	4036	2
1957 FED FIRM SURPLUS/DEFICIT	6187	4966	2166	1399	1118	4430	3962	3863	4583	4403	2
1958 FED FIRM SURPLUS/DEFICIT	2342	2225	3257	2775	2173	2815	3982	3896	4624	4180	2
1959 FED FIRM SURPLUS/DEFICIT	2633	2867	3281	2617	1747	4087	4002	3698	4259	4066	2
1960 FED FIRM SURPLUS/DEFICIT	6290	4746	6893	6943	5072	4670	3963	3794	4507	4386	2
1961 FED FIRM SURPLUS/DEFICIT	5545	2275	3450	3085	1533	2949	3963	3725	4332	4147	2
1962 FED FIRM SURPLUS/DEFICIT	2708	3751	3425	2740	2087	2564	3949	4087	4865	4830	2
1963 FED FIRM SURPLUS/DEFICIT	5197	3981	3286	3006	1541	4617	3970	4283	4300	4767	1
1964 FED FIRM SURPLUS/DEFICIT	4846	3807	3759	2686	1801	2832	3987	3748	4386	4188	1
1965 FED FIRM SURPLUS/DEFICIT	6607	4502	3299	3114	2430	4841	3991	3783	4398	4165	2
1966 FED FIRM SURPLUS/DEFICIT	7393	6725	3580	2894	2412	3604	3964	4338	4661	4759	2
1967 FED FIRM SURPLUS/DEFICIT	5680	2935	3381	2644	2155	2591	3986	3702	4315	4093	
1968 FED FIRM SURPLUS/DEFICIT	7158	4624	3543	2249	1794	3275	3994	3996	4915	3848	1
1969 FED FIRM SURPLUS/DEFICIT	2806	5123	5156	4442	3868	4581	3978	3662	4303	4158	2
1970 FED FIRM SURPLUS/DEFICIT	2967	2212	2172	2120	1645	2622	3953	4549	5383	4991	1
1971 FED FIRM SURPLUS/DEFICIT	2115	2224	2271	1821	1666	2898	3972	3610	4248	3865	2

1972 FED FIRM SURPLUS/DEFICIT	7760	4862	2196	1758	1177	4039	3976	3624	4337	4222	2091
1973 FED FIRM SURPLUS/DEFICIT	7742	7143	2194	2343	1938	3889	3662	2656	675	141	329
1974 FED FIRM SURPLUS/DEFICIT	2110	2223	2179	1066	-167	4685	3992	3976	4370	4010	1995
1975 FED FIRM SURPLUS/DEFICIT	7766	6296	2424	2281	1889	2185	3980	3802	4519	3044	2253
1976 FED FIRM SURPLUS/DEFICIT	3820	4903	2190	2803	3583	4823	4003	3670	4287	4114	2307
1977 FED FIRM SURPLUS/DEFICIT	7730	8332	6652	2753	2184	3185	763	-1076	-42	1775	2192
1978 FED FIRM SURPLUS/DEFICIT	2240	2417	2092	977	694	2454	3920	3552	4329	4027	2247
*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2800
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
*Add firm capacity to meet Fed firm energy loads at C-E ratio at .91	1584	1584	1584	1584	1584	1584	1584	1584	1584	1584	1584

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OPERATING YEAR
DATE: 03/05/93 MEDIUM LOAD
FORECAST

PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR
ADJUSTED	1-15	16-31								1-15	16-30
1929 FED FIRM SURPLUS/DEFICIT	6631	3765	3446	4369	2319	2669	-474	-778	639	-998	705
1930 FED FIRM SURPLUS/DEFICIT	3509	3621	2550	3038	1878	1697	-756	-1957	295	-248	607
1931 FED FIRM SURPLUS/DEFICIT	5654	4436	2517	3180	1781	2200	-818	-2252	-381	1523	-167
1932 FED FIRM SURPLUS/DEFICIT	2693	3392	2449	2684	638	1181	2221	3173	4204	2284	1088
1933 FED FIRM SURPLUS/DEFICIT	5170	5961	4071	4406	2090	2980	3488	3336	4422	2223	1223
1934 FED FIRM SURPLUS/DEFICIT	8306	7473	3915	4779	5173	4585	3506	3393	4530	2552	1422
1935 FED FIRM SURPLUS/DEFICIT	4094	4047	4106	4101	1966	2682	3442	3978	3088	1417	1482
1936 FED FIRM SURPLUS/DEFICIT	7094	3828	4090	4533	2859	3022	3087	1715	4189	2571	1579
1937 FED FIRM SURPLUS/DEFICIT	3801	3690	3599	4647	2984	2666	-984	-46	567	75	875
1938 FED FIRM SURPLUS/DEFICIT	2775	3058	2502	2741	-519	1395	3480	3312	4543	2394	1146
1939 FED FIRM SURPLUS/DEFICIT	3299	3272	4041	4708	2671	2523	1757	-1678	4767	3395	2095
1940 FED FIRM SURPLUS/DEFICIT	4791	3851	3925	4832	3054	2752	2239	-1164	4954	4208	2872
1941 FED FIRM SURPLUS/DEFICIT	4424	3848	2613	3300	2026	2200	18	354	646	2206	1515
1942 FED FIRM SURPLUS/DEFICIT	5344	5335	2492	3020	2261	4522	3453	3977	2749	3165	1457
1943 FED FIRM SURPLUS/DEFICIT	6253	4397	4112	4683	2381	2773	3486	3406	4530	2562	1362
1944 FED FIRM SURPLUS/DEFICIT	6598	3544	3687	4442	2771	2663	-809	-1256	-597	288	981
1945 FED FIRM SURPLUS/DEFICIT	3058	2972	2556	2793	876	1396	343	-901	867	1234	113
1946 FED FIRM SURPLUS/DEFICIT	2790	2909	2560	2805	1023	1087	3519	3399	4567	2280	1301
1947 FED FIRM SURPLUS/DEFICIT	6430	4198	4049	4571	2224	4491	3515	3439	4624	2498	1429
1948 FED FIRM SURPLUS/DEFICIT	5091	3235	3829	6837	3988	4294	3513	3395	4461	2438	1044
1949 FED FIRM SURPLUS/DEFICIT	7998	7528	4096	4464	2607	2960	3491	3592	4805	2834	1591
1950 FED FIRM SURPLUS/DEFICIT	2795	2912	2545	2801	680	2814	3510	3373	4488	2466	1230
1951 FED FIRM SURPLUS/DEFICIT	8185	6799	3813	5542	4622	4637	3526	3416	4532	2524	1325
1952 FED FIRM SURPLUS/DEFICIT	8258	4820	3418	6386	2280	4177	3487	3529	4707	2750	1549
1953 FED FIRM SURPLUS/DEFICIT	5708	2909	3735	4483	2938	2926	3542	3465	3756	1963	1126
1954 FED FIRM SURPLUS/DEFICIT	6115	5330	3739	4540	2165	2799	3517	3399	4454	2421	1196
1955 FED FIRM SURPLUS/DEFICIT	8395	8922	6095	4453	2808	3791	3497	3802	3939	3019	208
1956 FED FIRM SURPLUS/DEFICIT	7227	3531	3549	3384	3487	4630	3524	3383	4462	2420	1069
1957 FED FIRM SURPLUS/DEFICIT	6871	5650	2550	3133	1502	4214	3496	3547	4767	2787	1573
1958 FED FIRM SURPLUS/DEFICIT	3026	2909	3641	4509	2557	2599	3516	3580	4808	2564	1324

1959 FED FIRM SURPLUS/DEFICIT	3317	3551	3665	4351	2131	3871	3536	3382	4443	2450	1
1960 FED FIRM SURPLUS/DEFICIT	6974	5430	7277	8677	5456	4454	3497	3478	4691	2770	1
1961 FED FIRM SURPLUS/DEFICIT	6229	2959	3834	4819	1917	2733	3497	3409	4516	2531	1
1962 FED FIRM SURPLUS/DEFICIT	3392	4435	3809	4474	2471	2348	3483	3771	5049	3214	1
1963 FED FIRM SURPLUS/DEFICIT	5881	4665	3670	4740	1925	4401	3504	3967	4484	3151	1
1964 FED FIRM SURPLUS/DEFICIT	5530	4491	4143	4420	2185	2616	3521	3432	4570	2572	1
1965 FED FIRM SURPLUS/DEFICIT	7291	5186	3683	4848	2814	4625	3525	3467	4582	2549	1
1966 FED FIRM SURPLUS/DEFICIT	8077	7409	3964	4628	2796	3388	3498	4022	4845	3143	1
1967 FED FIRM SURPLUS/DEFICIT	6364	3619	3765	4378	2539	2375	3520	3386	4499	2477	1
1968 FED FIRM SURPLUS/DEFICIT	7842	5308	3927	3983	2178	3059	3528	3680	5099	2232	1
1969 FED FIRM SURPLUS/DEFICIT	3490	5807	5540	6176	4252	4365	3512	3346	4487	2542	1
1970 FED FIRM SURPLUS/DEFICIT	3651	2896	2556	3854	2029	2406	3487	4233	5567	3375	1
1971 FED FIRM SURPLUS/DEFICIT	2799	2908	2655	3555	2050	2682	3506	3294	4432	2249	1
1972 FED FIRM SURPLUS/DEFICIT	8444	5546	2580	3492	1561	3823	3510	3308	4521	2606	1
1973 FED FIRM SURPLUS/DEFICIT	8426	7827	2578	4077	2322	3673	3196	2340	859	-1475	1
1974 FED FIRM SURPLUS/DEFICIT	2794	2907	2563	2800	217	4469	3526	3660	4554	2394	1
1975 FED FIRM SURPLUS/DEFICIT	8450	6980	2808	4015	2273	1969	3514	3486	4703	1428	1
1976 FED FIRM SURPLUS/DEFICIT	4504	5587	2574	4537	3967	4607	3537	3354	4471	2498	1
1977 FED FIRM SURPLUS/DEFICIT	8414	9016	7036	4487	2568	2969	297	-1392	142	159	1
1978 FED FIRM SURPLUS/DEFICIT	2924	3101	2476	2711	1078	2238	3454	3236	4513	2411	1

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OPERATING YEAR

RUN DATE: 03/05/93

PEAK IN MEGAWATTS

UNADJUSTED	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	16-31
1929 FED FIRM SURPLUS/DEFICIT	5835	2986	2945	2499	1783	2719	-186	-631	302	473	1
1930 FED FIRM SURPLUS/DEFICIT	2713	2841	2049	1168	1341	1747	-468	-1810	-42	1224	1
1931 FED FIRM SURPLUS/DEFICIT	4858	3656	2016	1310	1245	2249	-530	-2105	-718	2995	1
1932 FED FIRM SURPLUS/DEFICIT	1898	2612	1948	815	102	1231	2509	3320	3867	3756	1
1933 FED FIRM SURPLUS/DEFICIT	4374	5181	3571	2536	1554	3030	3776	3483	4086	3695	2
1934 FED FIRM SURPLUS/DEFICIT	7510	6693	3415	2909	4637	4634	3794	3540	4193	4024	2
1935 FED FIRM SURPLUS/DEFICIT	3298	3267	3605	2231	1430	2732	3730	4125	2751	2889	2
1936 FED FIRM SURPLUS/DEFICIT	6298	3048	3589	2663	2323	3072	3375	1862	3852	4042	2
1937 FED FIRM SURPLUS/DEFICIT	3005	2911	3098	2777	2448	2716	-696	101	230	1547	1
1938 FED FIRM SURPLUS/DEFICIT	1980	2278	2001	872	-1055	1445	3768	3459	4206	3866	2
1939 FED FIRM SURPLUS/DEFICIT	2503	2493	3540	2838	2134	2572	2045	-1531	4430	4867	2
1940 FED FIRM SURPLUS/DEFICIT	3995	3072	3425	2962	2518	2801	2527	-1017	4617	5680	3
1941 FED FIRM SURPLUS/DEFICIT	3628	3068	2113	1430	1490	2250	306	501	309	3678	2
1942 FED FIRM SURPLUS/DEFICIT	4548	4555	1991	1150	1725	4571	3741	4124	2412	4637	2
1943 FED FIRM SURPLUS/DEFICIT	5457	3618	3611	2814	1845	2822	3774	3553	4193	4033	2
1944 FED FIRM SURPLUS/DEFICIT	5802	2765	3187	2572	2235	2712	-521	-1109	-934	1760	1
1945 FED FIRM SURPLUS/DEFICIT	2262	2192	2055	924	340	1445	631	-754	530	2706	1
1946 FED FIRM SURPLUS/DEFICIT	1995	2130	2059	936	487	1136	3807	3546	4230	3752	2
1947 FED FIRM SURPLUS/DEFICIT	5634	3419	3549	2701	1688	4540	3803	3586	4287	3970	2
1948 FED FIRM SURPLUS/DEFICIT	4295	2455	3329	4967	3452	4343	3801	3542	4124	3910	1
1949 FED FIRM SURPLUS/DEFICIT	7202	6748	3596	2594	2071	3009	3779	3739	4468	4306	2
1950 FED FIRM SURPLUS/DEFICIT	2000	2133	2044	932	144	2863	3798	3520	4151	3937	2
1951 FED FIRM SURPLUS/DEFICIT	7389	6020	3312	3672	4086	4686	3814	3563	4196	3996	2

1952 FED FIRM SURPLUS/DEFICIT	7462	4041	2918	4516	1744	4227	3775	3676	4370	4222	2420
1953 FED FIRM SURPLUS/DEFICIT	4912	2130	3234	2613	2402	2975	3830	3612	3419	3434	1997
1954 FED FIRM SURPLUS/DEFICIT	5319	4551	3238	2670	1629	2848	3805	3546	4117	3892	2067
1955 FED FIRM SURPLUS/DEFICIT	7599	8143	5594	2584	2272	3841	3785	3949	3602	4491	1079
1956 FED FIRM SURPLUS/DEFICIT	6431	2751	3048	1514	2950	4679	3812	3530	4125	3892	1940
1957 FED FIRM SURPLUS/DEFICIT	6075	4871	2049	1263	966	4263	3784	3695	4430	4259	2444
1958 FED FIRM SURPLUS/DEFICIT	2230	2130	3141	2639	2021	2649	3804	3727	4471	4036	2195
1959 FED FIRM SURPLUS/DEFICIT	2521	2771	3164	2482	1595	3920	3824	3528	4106	3923	2139
1960 FED FIRM SURPLUS/DEFICIT	6178	4651	6776	6807	4920	4503	3785	3625	4354	4242	2126
1961 FED FIRM SURPLUS/DEFICIT	5433	2179	3333	2949	1381	2782	3785	3556	4179	4002	2203
1962 FED FIRM SURPLUS/DEFICIT	2596	3655	3308	2604	1935	2398	3771	3918	4711	4686	2551
1963 FED FIRM SURPLUS/DEFICIT	5085	3886	3169	2870	1388	4451	3792	4114	4147	4623	1309
1964 FED FIRM SURPLUS/DEFICIT	4734	3712	3643	2550	1649	2666	3809	3579	4233	4043	1406
1965 FED FIRM SURPLUS/DEFICIT	6495	4407	3183	2978	2278	4675	3813	3614	4245	4021	2219
1966 FED FIRM SURPLUS/DEFICIT	7281	6629	3463	2758	2260	3437	3786	4169	4508	4614	2212
1967 FED FIRM SURPLUS/DEFICIT	5568	2839	3265	2509	2003	2425	3808	3532	4162	3949	839
1968 FED FIRM SURPLUS/DEFICIT	7046	4528	3426	2113	1642	3108	3816	3827	4762	3704	996
1969 FED FIRM SURPLUS/DEFICIT	2694	5028	5040	4306	3716	4414	3800	3492	4150	4014	2260
1970 FED FIRM SURPLUS/DEFICIT	2855	2117	2056	1985	1492	2455	3775	4379	5230	4846	1502
1971 FED FIRM SURPLUS/DEFICIT	2004	2129	2155	1685	1514	2731	3794	3441	4095	3720	1998
1972 FED FIRM SURPLUS/DEFICIT	7648	4766	2079	1622	1024	3872	3798	3455	4184	4078	1946
1973 FED FIRM SURPLUS/DEFICIT	7630	7048	2077	2208	1786	3722	3484	2487	522	-3	184
1974 FED FIRM SURPLUS/DEFICIT	1999	2128	2062	931	-319	4518	3814	3807	4217	3866	1850
1975 FED FIRM SURPLUS/DEFICIT	7654	6201	2307	2145	1737	2019	3802	3633	4366	2900	2108
1976 FED FIRM SURPLUS/DEFICIT	3708	4807	2074	2667	3431	4656	3825	3501	4134	3970	2162
1977 FED FIRM SURPLUS/DEFICIT	7618	8236	6535	2617	2032	3019	585	-1246	-195	1631	2047
1978 FED FIRM SURPLUS/DEFICIT	2128	2321	1975	842	542	2287	3742	3382	4176	3883	2102

*Less PP&L contract	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100	-1100
*Less cold weather adjustment					-1400	-1500	-1500	-1500			
*Less SOR 5b reduction	-1100	-1100	-1400	-50	0	-500	-750	-600	-1600	-3400	-2800
*Add replacement of firm energy deficit	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
*Add firm capacity to meet Fed firm energy loads at C-E ratio of .92	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683

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OPERATING YEAR	RUN										
DATE: 03/05/93											
PEAK IN MEGAWATTS	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR
ADJUSTED	1-15	16-31								1-15	16-30
1929 FED FIRM SURPLUS/DEFICIT	6618	3769	3428	4332	2266	2602	-553	-848	585	-1044	659
1930 FED FIRM SURPLUS/DEFICIT	3496	3624	2532	3001	1824	1630	-835	-2027	241	-293	561
1931 FED FIRM SURPLUS/DEFICIT	5641	4439	2499	3143	1728	2132	-897	-2322	-435	1478	-213
1932 FED FIRM SURPLUS/DEFICIT	2681	3395	2431	2648	585	1114	2142	3103	4150	2239	1042
1933 FED FIRM SURPLUS/DEFICIT	5157	5964	4054	4369	2037	2913	3409	3266	4369	2178	1177
1934 FED FIRM SURPLUS/DEFICIT	8293	7476	3898	4742	5120	4517	3427	3323	4476	2507	1375
1935 FED FIRM SURPLUS/DEFICIT	4081	4050	4088	4064	1913	2615	3363	3908	3034	1372	1436
1936 FED FIRM SURPLUS/DEFICIT	7081	3831	4072	4496	2806	2955	3008	1645	4135	2525	1532
1937 FED FIRM SURPLUS/DEFICIT	3788	3694	3581	4610	2931	2599	-1063	-116	513	30	829
1938 FED FIRM SURPLUS/DEFICIT	2763	3061	2484	2705	-572	1328	3401	3242	4489	2349	1100

1939 FED FIRM SURPLUS/DEFICIT	3286	3276	4023	4671	2617	2455	1678	-1748	4713	3350	2
1940 FED FIRM SURPLUS/DEFICIT	4778	3855	3908	4795	3001	2684	2160	-1234	4900	4163	2
1941 FED FIRM SURPLUS/DEFICIT	4411	3851	2596	3263	1973	2133	-61	284	592	2161	1
1942 FED FIRM SURPLUS/DEFICIT	5331	5338	2474	2983	2208	4454	3374	3907	2695	3120	1
1943 FED FIRM SURPLUS/DEFICIT	6240	4401	4094	4647	2328	2705	3407	3336	4476	2516	1
1944 FED FIRM SURPLUS/DEFICIT	6585	3548	3670	4405	2718	2595	-888	-1326	-651	243	1
1945 FED FIRM SURPLUS/DEFICIT	3045	2975	2538	2757	823	1328	264	-971	813	1189	1
1946 FED FIRM SURPLUS/DEFICIT	2778	2913	2542	2769	970	1019	3440	3329	4513	2235	1
1947 FED FIRM SURPLUS/DEFICIT	6417	4202	4032	4534	2171	4423	3436	3369	4570	2453	1
1948 FED FIRM SURPLUS/DEFICIT	5078	3238	3812	6800	3935	4226	3434	3325	4407	2393	1
1949 FED FIRM SURPLUS/DEFICIT	7985	7531	4079	4427	2554	2892	3412	3522	4751	2789	1
1950 FED FIRM SURPLUS/DEFICIT	2783	2916	2527	2765	627	2746	3431	3303	4434	2420	1
1951 FED FIRM SURPLUS/DEFICIT	8172	6803	3795	5505	4569	4569	3447	3346	4479	2479	1
1952 FED FIRM SURPLUS/DEFICIT	8245	4824	3401	6349	2227	4110	3408	3459	4653	2705	1
1953 FED FIRM SURPLUS/DEFICIT	5695	2913	3717	4446	2885	2858	3463	3395	3702	1917	1
1954 FED FIRM SURPLUS/DEFICIT	6102	5334	3721	4503	2112	2731	3438	3329	4400	2375	1
1955 FED FIRM SURPLUS/DEFICIT	8382	8926	6077	4417	2755	3724	3418	3732	3885	2974	1
1956 FED FIRM SURPLUS/DEFICIT	7214	3534	3531	3347	3433	4562	3445	3313	4408	2375	1
1957 FED FIRM SURPLUS/DEFICIT	6858	5654	2532	3096	1449	4146	3417	3478	4713	2742	1
1958 FED FIRM SURPLUS/DEFICIT	3013	2913	3624	4472	2504	2532	3437	3510	4754	2519	1
1959 FED FIRM SURPLUS/DEFICIT	3304	3554	3647	4315	2078	3803	3457	3311	4389	2406	1
1960 FED FIRM SURPLUS/DEFICIT	6961	5434	7259	8640	5403	4386	3418	3408	4637	2725	1
1961 FED FIRM SURPLUS/DEFICIT	6216	2962	3816	4782	1864	2665	3418	3339	4462	2485	1
1962 FED FIRM SURPLUS/DEFICIT	3379	4438	3791	4437	2418	2281	3404	3701	4994	3169	1
1963 FED FIRM SURPLUS/DEFICIT	5868	4669	3652	4703	1871	4334	3425	3897	4430	3106	1
1964 FED FIRM SURPLUS/DEFICIT	5517	4495	4126	4383	2132	2549	3442	3362	4516	2526	1
1965 FED FIRM SURPLUS/DEFICIT	7278	5190	3666	4811	2761	4558	3446	3397	4528	2504	1
1966 FED FIRM SURPLUS/DEFICIT	8064	7412	3946	4591	2743	3320	3419	3952	4791	3097	1
1967 FED FIRM SURPLUS/DEFICIT	6351	3622	3748	4342	2486	2308	3441	3315	4445	2432	1
1968 FED FIRM SURPLUS/DEFICIT	7829	5311	3909	3946	2125	2991	3449	3610	5045	2187	1
1969 FED FIRM SURPLUS/DEFICIT	3477	5811	5523	6139	4199	4297	3433	3275	4433	2497	1
1970 FED FIRM SURPLUS/DEFICIT	3638	2900	2539	3818	1975	2338	3408	4162	5513	3329	1
1971 FED FIRM SURPLUS/DEFICIT	2787	2912	2638	3518	1997	2614	3427	3224	4378	2203	1
1972 FED FIRM SURPLUS/DEFICIT	8431	5549	2562	3455	1507	3755	3431	3238	4467	2561	1
1973 FED FIRM SURPLUS/DEFICIT	8413	7831	2560	4041	2269	3605	3117	2270	805	-1520	1
1974 FED FIRM SURPLUS/DEFICIT	2782	2911	2545	2764	164	4401	3447	3590	4500	2349	1
1975 FED FIRM SURPLUS/DEFICIT	8437	6984	2790	3978	2220	1902	3435	3416	4649	1383	1
1976 FED FIRM SURPLUS/DEFICIT	4491	5590	2557	4500	3914	4539	3458	3284	4417	2453	1
1977 FED FIRM SURPLUS/DEFICIT	8401	9019	7018	4450	2515	2902	218	-1463	88	114	1
1978 FED FIRM SURPLUS/DEFICIT	2911	3104	2458	2675	1025	2170	3375	3165	4459	2366	1

50-YEAR MEGAWATT DEFICITS (%) MONTH OF FEBRUARY															HIGH LOAD	2000 MW CC	
DEFICITS	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
>0	18%	20%	20%	20%	20%	18%	20%	20%	20%	20%	20%	22%	22%	22%	22%	20%	22%
>-400	16%	18%	20%	20%	20%	16%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
>-800	16%	16%	18%	18%	18%	16%	18%	18%	18%	18%	20%	20%	20%	20%	20%	20%	20%
>-1200	12%	16%	16%	16%	16%	14%	16%	16%	16%	16%	20%	20%	20%	20%	20%	20%	20%
>-1600	8%	12%	14%	16%	14%	8%	16%	16%	16%	16%	18%	18%	18%	18%	18%	18%	18%
>-2000	4%	8%	10%	12%	10%	6%	12%	12%	12%	12%	16%	16%	16%	16%	16%	16%	16%

50-YEAR MEGAWATT DEFICITS (%) MONTH OF MARCH															HIGH LOAD	2000 MW CC	
DEFICITS	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
>0	8%	14%	14%	18%	14%	0%	18%	14%	18%	18%	18%	18%	18%	18%	18%	18%	16%
>-400	4%	8%	8%	8%	8%	0%	8%	8%	18%	18%	14%	18%	18%	18%	18%	18%	16%
>-800	2%	4%	4%	4%	4%	0%	4%	4%	18%	18%	8%	8%	8%	14%	14%	8%	8%
>-1200	0%	2%	2%	4%	0%	0%	4%	2%	18%	18%	4%	4%	4%	8%	6%	6%	6%
>-1600	0%	0%	0%	0%	0%	0%	0%	0%	10%	18%	2%	4%	4%	4%	4%	4%	4%
>-2000	0%	0%	0%	0%	0%	0%	0%	0%	6%	14%	0%	0%	0%	0%	2%	0%	0%

50-YEAR MEGAWATT DEFICITS (%) MONTH OF APRIL 1-15															HIGH LOAD	2000 MW CC	
DEFICITS	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
>0	12%	12%	12%	12%	12%	0%	12%	12%	12%	12%	12%	12%	12%	12%	14%	12%	12%
>-400	6%	10%	8%	12%	12%	0%	10%	10%	12%	6%	12%	12%	12%	12%	12%	12%	12%
>-800	4%	6%	4%	6%	6%	0%	6%	8%	10%	4%	10%	12%	12%	12%	12%	12%	12%
>-1200	4%	4%	4%	4%	4%	0%	4%	4%	6%	4%	6%	6%	6%	6%	6%	6%	6%
>-1600	2%	4%	2%	4%	4%	0%	4%	4%	4%	2%	4%	4%	4%	4%	4%	4%	4%
>-2000	0%	2%	0%	2%	2%	0%	2%	2%	2%	0%	4%	4%	4%	4%	4%	4%	4%

50-YEAR MEGAWATT DEFICITS (%) MONTH OF APRIL 16-30															HIGH LOAD	2000 MW CC	
DEFICITS	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
>0	10%	20%	14%	20%	22%	0%	18%	18%	28%	22%	28%	44%	44%	42%	54%	36%	36%
>-400	6%	12%	8%	12%	12%	0%	12%	12%	14%	14%	18%	22%	22%	12%	22%	22%	20%
>-800	2%	4%	2%	4%	4%	0%	2%	2%	10%	6%	12%	12%	12%	12%	14%	12%	12%
>-1200	2%	2%	2%	2%	2%	0%	2%	2%	2%	2%	2%	6%	6%	4%	6%	4%	4%
>-1600	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	2%	2%	2%	2%	2%	2%	2%
>-2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

50-YEAR MEGAWATT DEFICITS (%) MONTH OF NOVEMBER															HIGH LOAD	2000 MW CC	
DEFICITS	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
>0	2%	4%	4%	8%	6%	8%	8%	8%	2%	18%	14%	14%	14%	16%	14%	14%	14%
>-400	2%	2%	2%	4%	4%	4%	4%	4%	0%	14%	6%	10%	14%	14%	10%	8%	8%
>-800	0%	0%	2%	2%	2%	2%	2%	2%	0%	10%	4%	6%	6%	8%	4%	4%	4%
>-1200	0%	0%	0%	2%	0%	2%	2%	2%	0%	4%	2%	4%	4%	4%	2%	2%	2%

>-1600	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	2%	2%	2%	2%	2%	2%	2%
>-2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%

50-YEAR MEGAWATT DEFICITS (%) MONTH OF DECEMBER

DEFICITS	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011
>0	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	8%	8%	10%	10%	8%	8%	8%	
>-400	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	4%	4%	4%	4%	2%	2%	
>-800	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
>-1200	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
>-1600	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
>-2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

50-YEAR MEGAWATT DEFICITS (%) MONTH OF JANUARY

DEFICITS	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011
>0	12%	16%	16%	14%	16%	12%	16%	16%	16%	16%	16%	18%	18%	18%	18%	18%	18%	
>-400	10%	12%	14%	14%	16%	10%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	
>-800	18%	10%	10%	10%	10%	8%	12%	14%	16%	16%	16%	16%	16%	16%	16%	16%	16%	
>-1200	0%	8%	10%	10%	10%	2%	10%	10%	10%	12%	16%	16%	16%	16%	16%	14%	16%	
>-1600	0%	0%	2%	8%	6%	0%	8%	10%	10%	10%	12%	16%	16%	16%	16%	14%	16%	
>-2000	0%	0%	0%	0%	0%	0%	2%	2%	6%	8%	10%	10%	12%	12%	10%	10%	10%	