Xcel Energy

(4220)

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2001 APR 30 P 4:23

April 27, 2001

Ms. Lynda L. Dorr
Secretary of the Commission
Public Service Commission of Wisconsin
610 North Whitney Way
P.O. Box 7854
Madison, WI 53703-7854

Re: Filing Requirement per Wis. Admin. Code Ch. PSC 113.0604 ~~4220-GF-100~~

Dear Ms. Dorr:

On August 1, 2000, Wis. Admin Code Ch. PSC 113 – Service Rules for Electric Utilities took effect. The revised PSC 113 contains a number of filing requirements including PSC 113.0604, which requires each utility to file an Annual Report containing various reliability, maintenance and performance data by May 1 of each year.

Pursuant to Wis. Admin. Code Ch. PSC 113.0604, attached is the Annual Report for Northern States Power Company – Wisconsin (NSP-W), d/b/a Xcel Energy. Please contact me at 608.280.7301, or at brian.r.zelenak@xcelenergy.com if you have any questions.

Respectfully submitted,

Brian R. Zelenak

Brian R. Zelenak
Manager, Regulatory Policy

enc.

c: J. Loock
Internal

MFC

Annual Report

of
Northern States Power Company – Wisconsin
d/b/a
Xcel Energy

Compliance Filing for
Wisconsin Administrative Code
ch. PSC 113.0604

May 1, 2001

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Overall Assessment of SAIFI, SAIDI, and CAIDI by Operating Area

PSC 113.0604 (2) (a)

Attached is the overall assessment of SAIFI, SAIDI and CAID by operating area for the Wisconsin jurisdiction ranked from highest to lowest by each criteria.

Xcel Energy Contact :

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SAIFI

Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
MCO021	WI	63	392	26	3130	478326	7.98
PSI021	WI	63	1247	105	8715	1115166	6.99
RID082	WI	61	735	26	3533	248420	4.81
CAB022	WI	61	468	30	2136	390324	4.56
MSE021	WI	62	29	6	130	18166	4.48
SND021	WI	61	2491	151	11045	1212943	4.43
GMT021	WI	60	197	15	846	80485	4.29
GEN198	WI	68	268	6	1088	344389	4.06
SUP021	WI	63	149	7	604	77403	4.05
CNR001	WI	63	3	2	12	366	4.00
WND081	WI	66	270	9	1003	130863	3.71
CAB021	WI	61	470	32	1735	376532	3.69
IRW002	WI	63	561	9	2052	88888	3.66
LAX077	WI	68	1098	26	3741	312926	3.41
DRM021	WI	61	193	7	641	64603	3.32
COC021	WI	66	397	10	1290	167776	3.25
HWK021	WI	61	224	7	711	78095	3.17
IHD021	WI	63	320	14	997	58619	3.12
SQN001	WI	62	3	3	9	1218	3.00
WHR023	WI	62	236	22	705	81037	2.99
GDN021	WI	62	418	9	1231	256072	2.94
WHR021	WI	62	147	10	426	47766	2.90
TWN022	WI	63	673	23	1937	136826	2.88
SST061	WI	62	542	16	1454	124494	2.68
CON021	WI	61	310	15	830	44996	2.68
CUM081	WI	60	218	6	580	28420	2.66
WHR022	WI	62	218	14	579	70953	2.66
RKL021	WI	67	699	38	1823	100551	2.61
RCD023	WI	66	887	23	2284	111189	2.57
BYF021	WI	62	2131	75	5462	637626	2.56
RSH091	WI	60	943	18	2384	84794	2.53
BES021	WI	63	1057	25	2659	98091	2.52
JKS021	WI	63	4	2	10	305	2.50
HYD032	WI	65	2398	51	5971	325258	2.49
HAL062	WI	65	1611	24	3918	304748	2.43
ONA061	WI	68	2208	40	5279	399588	2.39
LAX075	WI	68	1601	22	3781	221992	2.36
BNT021	WI	62	466	12	1094	160326	2.35
WTH001	WI	61	3	3	7	699	2.33
GAL021	WI	67	1238	38	2859	382157	2.31
TWN021	WI	63	691	22	1582	47603	2.29
PEP021	WI	66	897	30	2049	264811	2.28
NSI001	WI	63	628	12	1421	46310	2.26
SPR021	WI	66	744	18	1680	66099	2.26

SAIFI

Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
HAL063	WI	65	1476	20	3330	222870	2.26
SLD021	WI	61	282	16	636	25220	2.26
WSM081	WI	67	1199	35	2694	316154	2.25
BES022	WI	63	1082	13	2422	74505	2.24
FIN022	WI	61	1917	115	4267	488016	2.23
RID081	WI	61	525	18	1155	59067	2.20
SXF021	WI	63	203	7	443	25942	2.18
BKD021	WI	62	285	15	616	91988	2.16
NLV021	WI	64	984	5	2126	278871	2.16
OTC023	WI	65	1369	17	2911	226330	2.13
NRA001	WI	63	470	4	991	12565	2.11
SST062	WI	62	586	8	1219	84788	2.08
AMY001	WI	60	563	7	1170	85282	2.08
KIN081	WI	60	361	15	735	45601	2.04
AMC001	WI	62	3	2	6	1521	2.00
HGN021	WI	63	6	2	12	366	2.00
TLA001	WI	63	1	2	2	61	2.00
RSH081	WI	60	1983	27	3933	113001	1.98
BLD021	WI	63	629	18	1245	107505	1.98
RTL021	WI	63	1034	82	2032	297054	1.97
MER021	WI	67	754	12	1468	271751	1.95
WDM081	WI	61	746	31	1397	108018	1.87
LAX074	WI	68	631	18	1157	42105	1.83
SHW021	WI	65	262	12	480	21687	1.83
BIR022	WI	61	565	17	1017	118856	1.80
OPK010	WI	60	346	9	604	17680	1.75
BIR021	WI	61	903	43	1552	286067	1.72
RTL022	WI	63	936	65	1587	339030	1.70
OWN021	WI	64	1229	25	1992	384034	1.62
RSH092	WI	60	286	6	460	11725	1.61
SVN001	WI	62	290	4	463	44772	1.60
NFO021	WI	62	1051	34	1659	238424	1.58
OTC021	WI	65	460	17	726	50428	1.58
CHF024	WI	65	1358	26	2125	160113	1.56
WSM091	WI	67	1948	45	2912	170815	1.49
OPY081	WI	61	580	23	857	65550	1.48
HUR022	WI	63	666	12	972	22165	1.46
HAY082	WI	66	1685	21	2426	86875	1.44
TRL082	WI	61	82	5	118	10199	1.44
AYR022	WI	63	872	31	1253	105998	1.44
TRL081	WI	61	1093	39	1549	159774	1.42
ONA062	WI	68	939	19	1319	52253	1.40
SCF024	WI	60	177	8	240	11641	1.36
TRX021	WI	65	953	30	1287	52148	1.35

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All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
WLR092	WI	60	3734	47	5001	262902	1.34
CVA022	WI	67	364	21	487	83087	1.34
WSM092	WI	67	1085	13	1446	109481	1.33
CTA021	WI	62	313	11	415	23352	1.33
CHF033	WI	65	559	8	741	135868	1.33
VIR003	WI	67	893	17	1139	25754	1.28
LUK021	WI	60	1017	21	1294	316886	1.27
CTS021	WI	64	718	10	888	125695	1.24
HLA062	WI	68	1417	21	1748	100218	1.23
TRX033	WI	65	341	4	419	23021	1.23
WHH022	WI	67	559	16	685	67899	1.23
WBN022	WI	62	435	9	531	28786	1.22
MNR022	WI	62	109	5	132	8229	1.21
MAF071	WI	68	1043	18	1259	140192	1.21
CHF022	WI	65	1562	14	1868	181913	1.20
MLN001	WI	62	585	16	695	51357	1.19
HER001	WI	62	139	5	165	10579	1.19
MNR021	WI	62	92	9	109	6613	1.18
LAX076	WI	68	1153	17	1365	65088	1.18
CRN001	WI	62	117	2	138	8556	1.18
ELL021	WI	60	1027	15	1210	229205	1.18
CEF081	WI	66	808	25	941	61723	1.16
CAD061	WI	65	49	6	57	12710	1.16
WIB569	WI	65	1235	31	1423	151105	1.15
MNT001	WI	63	823	8	947	10601	1.15
WBN021	WI	62	831	4	949	49331	1.14
HAF001	WI	67	108	4	123	6670	1.14
TWT081	WI	60	1097	27	1246	103091	1.14
GST021	WI	60	394	5	445	29311	1.13
PTW001	WI	62	302	7	339	20052	1.12
TCN092	WI	64	2132	16	2371	62952	1.11
SPA031	WI	67	1560	13	1712	64261	1.10
ELL022	WI	60	308	2	337	70281	1.09
GLA021	WI	63	75	2	81	522	1.08
OLU021	WI	62	90	4	97	5833	1.08
BYD001	WI	64	312	21	336	41603	1.08
GEN197	WI	68	760	8	816	83787	1.07
WLR082	WI	60	2160	34	2316	283816	1.07
CUM082	WI	60	101	1	107	5457	1.06
PHL021	WI	62	734	12	776	112006	1.06
TAD021	WI	61	335	7	349	56506	1.04
IRW003	WI	63	530	6	552	22737	1.04
AMC002	WI	62	3	1	3	1365	1.00
EWA001	WI	61	3	1	3	552	1.00

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Xcel Energy Wisconsin 2000 YE Feeder Reliability
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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
GOG001	WI	63	3	1	3	384	1.00
GRV021	WI	62	106	2	106	8084	1.00
LKH010	WI	64	3	1	3	1584	1.00
LPA001	WI	62	3	1	3	156	1.00
LUP001	WI	63	3	1	3	18	1.00
MEY021	WI	63	3	1	3	165	1.00
CHF021	WI	65	641	5	627	61115	0.98
IRW005	WI	63	588	10	565	21093	0.96
NFO031	WI	62	1296	20	1205	175917	0.93
HAY081	WI	66	645	12	599	96267	0.93
NAP021	WI	65	514	23	463	51200	0.90
ELM021	WI	66	218	10	188	34701	0.86
YLR082	WI	61	1062	33	877	59235	0.83
HUR021	WI	63	291	5	223	10840	0.77
NLV031	WI	64	584	21	444	40737	0.76
RCL031	WI	61	1356	60	974	114151	0.72
WDB001	WI	63	7	5	5	1542	0.71
LKC081	WI	60	1221	26	839	199091	0.69
RSK021	WI	66	392	17	266	17153	0.68
HWY021	WI	62	3	2	2	193	0.67
BEA414	WI	60	820	20	533	40595	0.65
BAY021	WI	60	793	28	507	53508	0.64
BEA415	WI	60	377	8	234	3366	0.62
COU069	WI	68	468	9	290	20155	0.62
SPA021	WI	67	175	8	108	8306	0.62
MEN032	WI	66	1779	39	1022	103441	0.57
MEN022	WI	66	1527	28	839	52353	0.55
PRN021	WI	62	764	26	395	26173	0.52
STM022	WI	65	990	15	511	45430	0.52
RCD024	WI	66	380	10	195	14048	0.51
CAT021	WI	67	484	21	245	27251	0.51
EGA021	WI	66	116	9	56	5050	0.48
RBL023	WI	62	668	18	319	52527	0.48
POK061	WI	61	782	14	371	67824	0.47
AYR021	WI	63	812	11	362	16095	0.45
BFT061	WI	62	557	9	240	37368	0.43
HAL072	WI	65	1149	14	482	33317	0.42
CVA021	WI	67	668	14	278	29519	0.42
LON071	WI	65	654	10	267	31257	0.41
MDR021	WI	66	148	6	60	3563	0.41
FEN061	WI	68	1182	16	470	36779	0.40
TCN081	WI	64	2048	39	806	107429	0.39
GVA021	WI	67	309	14	118	7596	0.38
ELS027	WI	65	2100	26	757	70958	0.36

SAIFI

Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
NLV032	WI	64	536	12	184	31309	0.34
HAL073	WI	65	397	13	135	13526	0.34
EGP022	WI	65	291	12	98	4483	0.34
WLR081	WI	60	604	12	202	15737	0.33
PRS563	WI	65	3	1	1	24	0.33
TRE021	WI	67	18	3	6	808	0.33
COU077	WI	68	1765	27	574	50320	0.33
PHL031	WI	62	990	34	321	16131	0.32
COU068	WI	68	1874	28	607	73356	0.32
MEN021	WI	66	872	23	276	20306	0.32
ARK082	WI	66	601	10	188	42866	0.31
BFT062	WI	62	424	3	130	4672	0.31
OTC032	WI	65	1441	24	437	47485	0.30
TCN091	WI	64	941	33	277	33753	0.29
CHF031	WI	65	420	9	123	3153	0.29
LON062	WI	65	455	8	130	8377	0.29
COU062	WI	68	1371	21	391	37096	0.29
PRE021	WI	60	1204	20	335	78441	0.28
LOY022	WI	64	748	10	205	13479	0.27
CLL081	WI	60	486	9	130	17701	0.27
WTL062	WI	61	1127	22	296	19597	0.26
OTC031	WI	65	1697	32	441	91614	0.26
RIC081	WI	60	1968	35	494	41220	0.25
BLA023	WI	67	557	8	131	18242	0.24
TRP021	WI	64	499	24	117	7785	0.23
HWD021	WI	61	531	11	121	21189	0.23
HWD022	WI	61	658	18	147	38734	0.22
GST023	WI	60	565	11	124	18950	0.22
TRP022	WI	64	911	9	196	13293	0.22
FAY001	WI	62	467	16	98	8351	0.21
ELS033	WI	65	1488	21	312	21882	0.21
ELS022	WI	65	465	4	96	11079	0.21
TRX032	WI	65	1786	28	368	33030	0.21
STA082	WI	64	701	9	142	13886	0.20
RBL022	WI	62	173	4	35	4788	0.20
LON072	WI	65	666	5	134	11375	0.20
MAF063	WI	68	1541	16	310	19653	0.20
STA081	WI	64	275	3	54	4662	0.20
MAF062	WI	68	46	1	9	1125	0.20
MAD072	WI	65	2103	35	406	23552	0.19
ELS032	WI	65	1168	8	225	12109	0.19
BLA021	WI	67	671	17	125	16498	0.19
JIM021	WI	65	360	10	67	3583	0.19
LYN022	WI	64	415	14	76	7324	0.18

SAIFI

Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
COU079	WI	68	546	3	94	8138	0.17
RBL021	WI	62	134	6	23	1902	0.17
SWC071	WI	68	255	4	42	5210	0.16
SPA022	WI	67	1683	18	267	12912	0.16
LYN021	WI	64	253	13	40	5292	0.16
SWC072	WI	68	1178	13	185	13776	0.16
EGP021	WI	65	2078	38	313	24821	0.15
GLM021	WI	64	473	19	69	6141	0.15
SCF025	WI	60	949	16	135	6793	0.14
ELM022	WI	66	585	8	83	13275	0.14
VIR061	WI	67	1298	18	179	21102	0.14
FEN073	WI	68	946	19	127	12784	0.13
LAX062	WI	68	1845	28	242	18206	0.13
MAF061	WI	68	269	2	34	1168	0.13
FEN072	WI	68	847	11	106	6367	0.13
EGA022	WI	66	347	11	43	4653	0.12
SPE021	WI	64	1001	12	124	19600	0.12
MRC022	WI	63	1507	1	186	25482	0.12
SPA032	WI	67	1775	30	210	21249	0.12
WLR091	WI	60	2216	20	250	13325	0.11
CMR021	WI	61	1078	24	121	13848	0.11
COU071	WI	68	1271	10	140	13702	0.11
AUG022	WI	65	690	3	75	10107	0.11
FIN021	WI	61	654	11	70	6477	0.11
TUR022	WI	60	341	8	35	1205	0.10
LOY021	WI	64	958	16	96	7884	0.10
DUR021	WI	66	482	5	48	4123	0.10
STM021	WI	65	520	8	49	6144	0.09
LAX063	WI	68	1484	11	139	15037	0.09
ETK021	WI	67	335	10	31	3551	0.09
MAD071	WI	65	733	12	67	2385	0.09
MLS021	WI	67	514	12	44	6156	0.09
TRX031	WI	65	74	6	6	522	0.08
OSC022	WI	60	724	11	58	3143	0.08
TRX022	WI	65	747	12	59	5104	0.08
OTC022	WI	65	1565	16	118	13283	0.08
ALM559	WI	66	508	7	37	4878	0.07
LON061	WI	65	1293	21	94	6774	0.07
PRE022	WI	60	663	7	48	6572	0.07
LAX067	WI	68	787	5	56	8030	0.07
DUR022	WI	66	1010	27	70	10612	0.07
NAP022	WI	65	1398	14	96	18518	0.07
VIR002	WI	67	498	4	34	3498	0.07
LAX065	WI	68	953	8	64	6523	0.07

SAIFI

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All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
ALM560	WI	66	15	1	1	149	0.07
OSC021	WI	60	1221	20	78	3995	0.06
CSH022	WI	67	425	18	27	3136	0.06
POK062	WI	61	877	18	55	15390	0.06
ARK081	WI	66	80	5	5	540	0.06
WHH023	WI	67	745	8	45	5534	0.06
COU078	WI	68	1211	9	72	2346	0.06
IRB001	WI	63	149	1	8	784	0.05
HLA071	WI	68	1205	12	63	6732	0.05
BAV001	WI	62	731	6	31	2215	0.04
CSH021	WI	67	122	5	5	569	0.04
COU061	WI	68	1561	12	63	4637	0.04
MCO001	WI	63	201	4	8	1648	0.04
MAD062	WI	65	930	11	36	3092	0.04
STA083	WI	64	553	7	21	1519	0.04
ELS031	WI	65	743	4	28	4081	0.04
WTL061	WI	61	1393	9	52	22384	0.04
HYD031	WI	65	56	2	2	724	0.04
AUG021	WI	65	309	10	11	1299	0.04
OGE021	WI	62	171	3	6	435	0.04
ELK001	WI	65	403	8	14	1895	0.03
FLC097	WI	65	605	4	18	2002	0.03
RCD022	WI	66	101	3	3	147	0.03
MAD061	WI	65	315	4	9	861	0.03
FEN062	WI	68	483	2	12	792	0.02
VAV001	WI	62	282	7	7	748	0.02
UPS001	WI	63	45	1	1	103	0.02
MEN023	WI	66	343	4	4	185	0.01
MAF072	WI	68	631	5	7	720	0.01
CPM032	WI	67	617	2	6	414	0.01
SWC061	WI	68	353	3	3	326	0.01
ELS034	WI	65	282	2	2	191	0.01
SOE001	WI	62	500	3	3	109	0.01
NEL021	WI	66	245	1	1	314	0.00
TUR021	WI	60	284	1	1	7	0.00
FEN063	WI	68	597	2	2	95	0.00
CLL082	WI	60	397	1	1	41	0.00
ALC021	WI	67	222	0	0	0	0.00
ALC022	WI	67	391	0	0	0	0.00
ALN001	WI	63	6	0	0	0	0.00
BLA022	WI	67	17	0	0	0	0.00
BRA001	WI	63	1	0	0	0	0.00
CFO001	WI	61	3	0	0	0	0.00
COR198	WI	65	3	0	0	0	0.00

SAIFI

Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
CPM022	WI	67	5	0	0	0	0.00
CPM023	WI	67	6	0	0	0	0.00
CPM024	WI	67	396	0	0	0	0.00
CPM025	WI	67	225	0	0	0	0.00
CPM026	WI	67	404	0	0	0	0.00
CPM033	WI	67	394	0	0	0	0.00
CPM034	WI	67	50	0	0	0	0.00
CPM035	WI	67	90	0	0	0	0.00
ELS021	WI	65	424	0	0	0	0.00
ELS023	WI	65	15	0	0	0	0.00
ELS024	WI	65	97	0	0	0	0.00
FLB010	WI	62	3	0	0	0	0.00
GAS62S	WI	62	4	0	0	0	0.00
GAS63E	WI	63	136	0	0	0	0.00
GAS63W	WI	63	404	0	0	0	0.00
GAS651	WI	65	2	0	0	0	0.00
GAS681	WI	68	23	0	0	0	0.00
GAS68A	WI	68	2	0	0	0	0.00
HYD021	WI	65	22	0	0	0	0.00
HYD022	WI	65	63	0	0	0	0.00
INO001	WI	62	3	0	0	0	0.00
IRP001	WI	63	3	0	0	0	0.00
IRW001	WI	63	352	0	0	0	0.00
JEF211	WI	65	87	0	0	0	0.00
JEF221	WI	65	5	0	0	0	0.00
LKH020	WI	64	3	0	0	0	0.00
LON063	WI	65	180	0	0	0	0.00
MEN031	WI	66	25	0	0	0	0.00
MID001	WI	63	3	0	0	0	0.00
MRC021	WI	63	111	0	0	0	0.00
OJB021	WI	63	5	0	0	0	0.00
OPK011	WI	60	9	0	0	0	0.00
OSC031	WI	60	17	0	0	0	0.00
PHL032	WI	62	3	0	0	0	0.00
PMP001	WI	61	6	0	0	0	0.00
PRS565	WI	65	3	0	0	0	0.00
RCD031	WI	66	3	0	0	0	0.00
RCD032	WI	66	6	0	0	0	0.00
RCD033	WI	66	3	0	0	0	0.00
RCL021	WI	61	51	0	0	0	0.00
RIC082	WI	60	25	0	0	0	0.00
RVW021	WI	65	81	0	0	0	0.00
SAX001	WI	63	3	0	0	0	0.00
STE471	WI	65	3	0	0	0	0.00

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Xcel Energy Wisconsin 2000 YE Feeder Reliability
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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
STE472	WI	65	3	0	0	0	0.00
SWC062	WI	68	12	0	0	0	0.00
TST001	WI	62	300	0	0	0	0.00
USR533	WI	65	6	0	0	0	0.00
USR534	WI	65	9	0	0	0	0.00
WAF001	WI	63	3	0	0	0	0.00
WBI021	WI	62	3	0	0	0	0.00
YLR081	WI	61	3	0	0	0	0.00

SAIDI

Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
GEN198	WI	68	268	6	1088	344389	1285.03
MCO021	WI	63	392	26	3130	478326	1220.22
PSI021	WI	63	1247	105	8715	1115166	894.28
CAB022	WI	61	468	30	2136	390324	834.03
CAB021	WI	61	470	32	1735	376532	801.13
MSE021	WI	62	29	6	130	18166	626.41
GDN021	WI	62	418	9	1231	256072	612.61
LKH010	WI	64	3	1	3	1584	528.00
SUP021	WI	63	149	7	604	77403	519.48
AMC001	WI	62	3	2	6	1521	507.00
SND021	WI	61	2491	151	11045	1212943	486.93
WND081	WI	66	270	9	1003	130863	484.68
AMC002	WI	62	3	1	3	1365	455.00
COC021	WI	66	397	10	1290	167776	422.61
GMT021	WI	60	197	15	846	80485	408.55
SQN001	WI	62	3	3	9	1218	406.00
RTL022	WI	63	936	65	1587	339030	362.21
MER021	WI	67	754	12	1468	271751	360.41
HWK021	WI	61	224	7	711	78095	348.64
BNT021	WI	62	466	12	1094	160326	344.05
WHR023	WI	62	236	22	705	81037	343.38
RID082	WI	61	735	26	3533	248420	337.99
DRM021	WI	61	193	7	641	64603	334.73
WHR022	WI	62	218	14	579	70953	325.47
WHR021	WI	62	147	10	426	47766	324.94
BKD021	WI	62	285	15	616	91988	322.76
BIR021	WI	61	903	43	1552	286067	316.80
OWN021	WI	64	1229	25	1992	384034	312.48
LUK021	WI	60	1017	21	1294	316886	311.59
GAL021	WI	67	1238	38	2859	382157	308.69
BYF021	WI	62	2131	75	5462	637626	299.21
PEP021	WI	66	897	30	2049	264811	295.22
RTL021	WI	63	1034	82	2032	297054	287.29
LAX077	WI	68	1098	26	3741	312926	285.00
NLV021	WI	64	984	5	2126	278871	283.41
WSM081	WI	67	1199	35	2694	316154	263.68
CAD061	WI	65	49	6	57	12710	259.39
FIN022	WI	61	1917	115	4267	488016	254.57
CHF033	WI	65	559	8	741	135868	243.06
WTH001	WI	61	3	3	7	699	233.00
SST061	WI	62	542	16	1454	124494	229.69
CVA022	WI	67	364	21	487	83087	228.26
ELL022	WI	60	308	2	337	70281	228.19
NFO021	WI	62	1051	34	1659	238424	226.85

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Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
ELL021	WI	60	1027	15	1210	229205	223.18
WDB001	WI	63	7	5	5	1542	220.29
BIR022	WI	61	565	17	1017	118856	210.36
TWN022	WI	63	673	23	1937	136826	203.31
HAL062	WI	65	1611	24	3918	304748	189.17
EWA001	WI	61	3	1	3	552	184.00
IHD021	WI	63	320	14	997	58619	183.18
ONA061	WI	68	2208	40	5279	399588	180.97
CTS021	WI	64	718	10	888	125695	175.06
BLD021	WI	63	629	18	1245	107505	170.91
TAD021	WI	61	335	7	349	56506	168.67
OTC023	WI	65	1369	17	2911	226330	165.33
LKC081	WI	60	1221	26	839	199091	163.06
ELM021	WI	66	218	10	188	34701	159.18
IRW002	WI	63	561	9	2052	88888	158.45
SVN001	WI	62	290	4	463	44772	154.39
PHL021	WI	62	734	12	776	112006	152.60
AMY001	WI	60	563	7	1170	85282	151.48
HAL063	WI	65	1476	20	3330	222870	151.00
HAY081	WI	66	645	12	599	96267	149.25
TRL081	WI	61	1093	39	1549	159774	146.18
CON021	WI	61	310	15	830	44996	145.15
WDM081	WI	61	746	31	1397	108018	144.80
SST062	WI	62	586	8	1219	84788	144.69
RKL021	WI	67	699	38	1823	100551	143.85
LAX075	WI	68	1601	22	3781	221992	138.66
NFO031	WI	62	1296	20	1205	175917	135.74
HYD032	WI	65	2398	51	5971	325258	135.64
MAF071	WI	68	1043	18	1259	140192	134.41
BYD001	WI	64	312	21	336	41603	133.34
WLR082	WI	60	2160	34	2316	283816	131.40
CUM081	WI	60	218	6	580	28420	130.37
GOG001	WI	63	3	1	3	384	128.00
SXF021	WI	63	203	7	443	25942	127.79
KIN081	WI	60	361	15	735	45601	126.32
RCD023	WI	66	887	23	2284	111189	125.35
TRL082	WI	61	82	5	118	10199	124.38
WIB569	WI	65	1235	31	1423	151105	122.35
CNR001	WI	63	3	2	12	366	122.00
AYR022	WI	63	872	31	1253	105998	121.56
WHH022	WI	67	559	16	685	67899	121.47
CHF024	WI	65	1358	26	2125	160113	117.90
CHF022	WI	65	1562	14	1868	181913	116.46
OPY081	WI	61	580	23	857	65550	113.02

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Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
RID081	WI	61	525	18	1155	59067	112.51
GEN197	WI	68	760	8	816	83787	110.25
OTC021	WI	65	460	17	726	50428	109.63
WSM092	WI	67	1085	13	1446	109481	100.90
NAP021	WI	65	514	23	463	51200	99.61
CHF021	WI	65	641	5	627	61115	95.34
TWT081	WI	60	1097	27	1246	103091	93.98
BES021	WI	63	1057	25	2659	98091	92.80
RSH091	WI	60	943	18	2384	84794	89.92
SLD021	WI	61	282	16	636	25220	89.43
SPR021	WI	66	744	18	1680	66099	88.84
MLN001	WI	62	585	16	695	51357	87.79
WSM091	WI	67	1948	45	2912	170815	87.69
POK061	WI	61	782	14	371	67824	86.73
RCL031	WI	61	1356	60	974	114151	84.18
SHW021	WI	65	262	12	480	21687	82.77
RBL023	WI	62	668	18	319	52527	78.63
CEF081	WI	66	808	25	941	61723	76.39
GRV021	WI	62	106	2	106	8084	76.26
JKS021	WI	63	4	2	10	305	76.25
HER001	WI	62	139	5	165	10579	76.11
MNR022	WI	62	109	5	132	8229	75.50
CTA021	WI	62	313	11	415	23352	74.61
GST021	WI	60	394	5	445	29311	74.39
NSI001	WI	63	628	12	1421	46310	73.74
CRN001	WI	62	117	2	138	8556	73.13
MNR021	WI	62	92	9	109	6613	71.88
ARK082	WI	66	601	10	188	42866	71.32
HLA062	WI	68	1417	21	1748	100218	70.73
WLR092	WI	60	3734	47	5001	262902	70.41
NLV031	WI	64	584	21	444	40737	69.76
TWN021	WI	63	691	22	1582	47603	68.89
BES022	WI	63	1082	13	2422	74505	68.86
TRX033	WI	65	341	4	419	23021	67.51
BAY021	WI	60	793	28	507	53508	67.48
BFT061	WI	62	557	9	240	37368	67.09
LAX074	WI	68	631	18	1157	42105	66.73
PTW001	WI	62	302	7	339	20052	66.40
WBN022	WI	62	435	9	531	28786	66.17
SCF024	WI	60	177	8	240	11641	65.77
PRE021	WI	60	1204	20	335	78441	65.15
OLU021	WI	62	90	4	97	5833	64.81
HWY021	WI	62	3	2	2	193	64.33
HAF001	WI	67	108	4	123	6670	61.76

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Xcel Energy Wisconsin 2000 YE Feeder Reliability
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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
HGN021	WI	63	6	2	12	366	61.00
TLA001	WI	63	1	2	2	61	61.00
WBN021	WI	62	831	4	949	49331	59.36
HWD022	WI	61	658	18	147	38734	58.87
NLV032	WI	64	536	12	184	31309	58.41
MEN032	WI	66	1779	39	1022	103441	58.15
RSH081	WI	60	1983	27	3933	113001	56.98
LAX076	WI	68	1153	17	1365	65088	56.45
CAT021	WI	67	484	21	245	27251	56.30
YLR082	WI	61	1062	33	877	59235	55.78
ONA062	WI	68	939	19	1319	52253	55.65
MEY021	WI	63	3	1	3	165	55.00
TRX021	WI	65	953	30	1287	52148	54.72
CUM082	WI	60	101	1	107	5457	54.03
OTC031	WI	65	1697	32	441	91614	53.99
TCN081	WI	64	2048	39	806	107429	52.46
LPA001	WI	62	3	1	3	156	52.00
HAY082	WI	66	1685	21	2426	86875	51.56
OPK010	WI	60	346	9	604	17680	51.10
BEA414	WI	60	820	20	533	40595	49.51
LON071	WI	65	654	10	267	31257	47.79
SPA021	WI	67	175	8	108	8306	47.46
STM022	WI	65	990	15	511	45430	45.89
TRE021	WI	67	18	3	6	808	44.89
CVA021	WI	67	668	14	278	29519	44.19
RSK021	WI	66	392	17	266	17153	43.76
EGA021	WI	66	116	9	56	5050	43.53
COU069	WI	68	468	9	290	20155	43.07
IRW003	WI	63	530	6	552	22737	42.90
SPA031	WI	67	1560	13	1712	64261	41.19
RSH092	WI	60	286	6	460	11725	41.00
HWD021	WI	61	531	11	121	21189	39.90
COU068	WI	68	1874	28	607	73356	39.14
HUR021	WI	63	291	5	223	10840	37.25
RCD024	WI	66	380	10	195	14048	36.97
CLL081	WI	60	486	9	130	17701	36.42
IRW005	WI	63	588	10	565	21093	35.87
TCN091	WI	64	941	33	277	33753	35.87
MEN022	WI	66	1527	28	839	52353	34.28
PRN021	WI	62	764	26	395	26173	34.26
HAL073	WI	65	397	13	135	13526	34.07
ELS027	WI	65	2100	26	757	70958	33.79
GST023	WI	60	565	11	124	18950	33.54
HUR022	WI	63	666	12	972	22165	33.28

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Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
OTC032	WI	65	1441	24	437	47485	32.95
BLA023	WI	67	557	8	131	18242	32.75
FEN061	WI	68	1182	16	470	36779	31.12
TCN092	WI	64	2132	16	2371	62952	29.53
HAL072	WI	65	1149	14	482	33317	29.00
VIR003	WI	67	893	17	1139	25754	28.84
COU077	WI	68	1765	27	574	50320	28.51
RBL022	WI	62	173	4	35	4788	27.68
COU062	WI	68	1371	21	391	37096	27.06
NRA001	WI	63	470	4	991	12565	26.73
WLR081	WI	60	604	12	202	15737	26.05
BLA021	WI	67	671	17	125	16498	24.59
GVA021	WI	67	309	14	118	7596	24.58
MAF062	WI	68	46	1	9	1125	24.46
MDR021	WI	66	148	6	60	3563	24.07
ELS022	WI	65	465	4	96	11079	23.83
MEN021	WI	66	872	23	276	20306	23.29
ELM022	WI	66	585	8	83	13275	22.69
RIC081	WI	60	1968	35	494	41220	20.95
LYN021	WI	64	253	13	40	5292	20.92
SWC071	WI	68	255	4	42	5210	20.43
AYR021	WI	63	812	11	362	16095	19.82
STA082	WI	64	701	9	142	13886	19.81
SPE021	WI	64	1001	12	124	19600	19.58
TRX032	WI	65	1786	28	368	33030	18.49
LON062	WI	65	455	8	130	8377	18.41
LOY022	WI	64	748	10	205	13479	18.02
FAY001	WI	62	467	16	98	8351	17.88
LYN022	WI	64	415	14	76	7324	17.65
POK062	WI	61	877	18	55	15390	17.55
WTL062	WI	61	1127	22	296	19597	17.39
LON072	WI	65	666	5	134	11375	17.08
STA081	WI	64	275	3	54	4662	16.95
MRC022	WI	63	1507	1	186	25482	16.91
PHL031	WI	62	990	34	321	16131	16.29
VIR061	WI	67	1298	18	179	21102	16.26
WTL061	WI	61	1393	9	52	22384	16.07
TRP021	WI	64	499	24	117	7785	15.60
EGP022	WI	65	291	12	98	4483	15.41
COU079	WI	68	546	3	94	8138	14.90
ELS033	WI	65	1488	21	312	21882	14.71
AUG022	WI	65	690	3	75	10107	14.65
TRP022	WI	64	911	9	196	13293	14.59
RBL021	WI	62	134	6	23	1902	14.19

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Xcel Energy Wisconsin 2000 YE Feeder Reliability
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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
FEN073	WI	68	946	19	127	12784	13.51
EGA022	WI	66	347	11	43	4653	13.41
NAP022	WI	65	1398	14	96	18518	13.25
GLM021	WI	64	473	19	69	6141	12.98
HYD031	WI	65	56	2	2	724	12.93
MNT001	WI	63	823	8	947	10601	12.88
CMR021	WI	61	1078	24	121	13848	12.85
MAF063	WI	68	1541	16	310	19653	12.75
MLS021	WI	67	514	12	44	6156	11.98
SPA032	WI	67	1775	30	210	21249	11.97
EGP021	WI	65	2078	38	313	24821	11.94
STM021	WI	65	520	8	49	6144	11.82
SWC072	WI	68	1178	13	185	13776	11.69
MAD072	WI	65	2103	35	406	23552	11.20
BFT062	WI	62	424	3	130	4672	11.02
COU071	WI	68	1271	10	140	13702	10.78
ETK021	WI	67	335	10	31	3551	10.60
DUR022	WI	66	1010	27	70	10612	10.51
ELS032	WI	65	1168	8	225	12109	10.37
LAX067	WI	68	787	5	56	8030	10.20
LAX063	WI	68	1484	11	139	15037	10.13
JIM021	WI	65	360	10	67	3583	9.95
ALM560	WI	66	15	1	1	149	9.93
PRE022	WI	60	663	7	48	6572	9.91
FIN021	WI	61	654	11	70	6477	9.90
LAX062	WI	68	1845	28	242	18206	9.87
ALM559	WI	66	508	7	37	4878	9.60
BEA415	WI	60	377	8	234	3366	8.93
DUR021	WI	66	482	5	48	4123	8.55
OTC022	WI	65	1565	16	118	13283	8.49
LOY021	WI	64	958	16	96	7884	8.23
MCO001	WI	63	201	4	8	1648	8.20
PRS563	WI	65	3	1	1	24	8.00
SPA022	WI	67	1683	18	267	12912	7.67
FEN072	WI	68	847	11	106	6367	7.52
CHF031	WI	65	420	9	123	3153	7.51
WHH023	WI	67	745	8	45	5534	7.43
CSH022	WI	67	425	18	27	3136	7.38
SCF025	WI	60	949	16	135	6793	7.16
TRX031	WI	65	74	6	6	522	7.05
VIR002	WI	67	498	4	34	3498	7.02
GLA021	WI	63	75	2	81	522	6.96
LAX065	WI	68	953	8	64	6523	6.84
TRX022	WI	65	747	12	59	5104	6.83

SAIDI

Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
ARK081	WI	66	80	5	5	540	6.75
WLR091	WI	60	2216	20	250	13325	6.01
LUP001	WI	63	3	1	3	18	6.00
HLA071	WI	68	1205	12	63	6732	5.59
ELS031	WI	65	743	4	28	4081	5.49
IRB001	WI	63	149	1	8	784	5.26
LON061	WI	65	1293	21	94	6774	5.24
ELK001	WI	65	403	8	14	1895	4.70
CSH021	WI	67	122	5	5	569	4.66
MAF061	WI	68	269	2	34	1168	4.34
OSC022	WI	60	724	11	58	3143	4.34
AUG021	WI	65	309	10	11	1299	4.20
TUR022	WI	60	341	8	35	1205	3.53
MAD062	WI	65	930	11	36	3092	3.32
FLC097	WI	65	605	4	18	2002	3.31
OSC021	WI	60	1221	20	78	3995	3.27
MAD071	WI	65	733	12	67	2385	3.25
BAV001	WI	62	731	6	31	2215	3.03
COU061	WI	68	1561	12	63	4637	2.97
STA083	WI	64	553	7	21	1519	2.75
MAD061	WI	65	315	4	9	861	2.73
VAV001	WI	62	282	7	7	748	2.65
OGE021	WI	62	171	3	6	435	2.54
UPS001	WI	63	45	1	1	103	2.29
COU078	WI	68	1211	9	72	2346	1.94
FEN062	WI	68	483	2	12	792	1.64
RCD022	WI	66	101	3	3	147	1.46
NEL021	WI	66	245	1	1	314	1.28
MAF072	WI	68	631	5	7	720	1.14
SWC061	WI	68	353	3	3	326	0.92
ELS034	WI	65	282	2	2	191	0.68
CPM032	WI	67	617	2	6	414	0.67
MEN023	WI	66	343	4	4	185	0.54
SOE001	WI	62	500	3	3	109	0.22
FEN063	WI	68	597	2	2	95	0.16
CLL082	WI	60	397	1	1	41	0.10
TUR021	WI	60	284	1	1	7	0.02
ALC021	WI	67	222	0	0	0	0.00
ALC022	WI	67	391	0	0	0	0.00
ALN001	WI	63	6	0	0	0	0.00
BLA022	WI	67	17	0	0	0	0.00
BRA001	WI	63	1	0	0	0	0.00
CFO001	WI	61	3	0	0	0	0.00
COR198	WI	65	3	0	0	0	0.00

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Xcel Energy Wisconsin 2000 YE Feeder Reliability
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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
CPM022	WI	67	5	0	0	0	0.00
CPM023	WI	67	6	0	0	0	0.00
CPM024	WI	67	396	0	0	0	0.00
CPM025	WI	67	225	0	0	0	0.00
CPM026	WI	67	404	0	0	0	0.00
CPM033	WI	67	394	0	0	0	0.00
CPM034	WI	67	50	0	0	0	0.00
CPM035	WI	67	90	0	0	0	0.00
ELS021	WI	65	424	0	0	0	0.00
ELS023	WI	65	15	0	0	0	0.00
ELS024	WI	65	97	0	0	0	0.00
FLB010	WI	62	3	0	0	0	0.00
GAS62S	WI	62	4	0	0	0	0.00
GAS63E	WI	63	136	0	0	0	0.00
GAS63W	WI	63	404	0	0	0	0.00
GAS651	WI	65	2	0	0	0	0.00
GAS681	WI	68	23	0	0	0	0.00
GAS68A	WI	68	2	0	0	0	0.00
HYD021	WI	65	22	0	0	0	0.00
HYD022	WI	65	63	0	0	0	0.00
INO001	WI	62	3	0	0	0	0.00
IRP001	WI	63	3	0	0	0	0.00
IRW001	WI	63	352	0	0	0	0.00
JEF211	WI	65	87	0	0	0	0.00
JEF221	WI	65	5	0	0	0	0.00
LKH020	WI	64	3	0	0	0	0.00
LON063	WI	65	180	0	0	0	0.00
MEN031	WI	66	25	0	0	0	0.00
MID001	WI	63	3	0	0	0	0.00
MRC021	WI	63	111	0	0	0	0.00
OJB021	WI	63	5	0	0	0	0.00
OPK011	WI	60	9	0	0	0	0.00
OSC031	WI	60	17	0	0	0	0.00
PHL032	WI	62	3	0	0	0	0.00
PMP001	WI	61	6	0	0	0	0.00
PRS565	WI	65	3	0	0	0	0.00
RCD031	WI	66	3	0	0	0	0.00
RCD032	WI	66	6	0	0	0	0.00
RCD033	WI	66	3	0	0	0	0.00
RCL021	WI	61	51	0	0	0	0.00
RIC082	WI	60	25	0	0	0	0.00
RVW021	WI	65	81	0	0	0	0.00
SAX001	WI	63	3	0	0	0	0.00
STE471	WI	65	3	0	0	0	0.00

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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
STE472	WI	65	3	0	0	0	0.00
SWC062	WI	68	12	0	0	0	0.00
TST001	WI	62	300	0	0	0	0.00
USR533	WI	65	6	0	0	0	0.00
USR534	WI	65	9	0	0	0	0.00
WAF001	WI	63	3	0	0	0	0.00
WBI021	WI	62	3	0	0	0	0.00
YLR081	WI	61	3	0	0	0	0.00

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Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
LKH010	WI	64	3	1	3	1584	528.00
AMC002	WI	62	3	1	3	1365	455.00
WTL061	WI	61	1393	9	52	22384	430.46
HYD031	WI	65	56	2	2	724	362.00
GEN198	WI	68	268	6	1088	344389	316.53
NEL021	WI	66	245	1	1	314	314.00
WDB001	WI	63	7	5	5	1542	308.40
POK062	WI	61	877	18	55	15390	279.82
HWD022	WI	61	658	18	147	38734	263.50
AMC001	WI	62	3	2	6	1521	253.50
LUK021	WI	60	1017	21	1294	316886	244.89
LKC081	WI	60	1221	26	839	199091	237.30
PRE021	WI	60	1204	20	335	78441	234.15
ARK082	WI	66	601	10	188	42866	228.01
CAD061	WI	65	49	6	57	12710	222.98
CAB021	WI	61	470	32	1735	376532	217.02
RTL022	WI	63	936	65	1587	339030	213.63
ELL022	WI	60	308	2	337	70281	208.55
GDN021	WI	62	418	9	1231	256072	208.02
OTC031	WI	65	1697	32	441	91614	207.74
MCO001	WI	63	201	4	8	1648	206.00
NAP022	WI	65	1398	14	96	18518	192.90
OWN021	WI	64	1229	25	1992	384034	192.79
ELL021	WI	60	1027	15	1210	229205	189.43
MER021	WI	67	754	12	1468	271751	185.12
ELM021	WI	66	218	10	188	34701	184.58
GLN393	WI			48	1081	199335	184.40
BIR021	WI	61	903	43	1552	286067	184.32
EWA001	WI	61	3	1	3	552	184.00
CHF033	WI	65	559	8	741	135868	183.36
POK061	WI	61	782	14	371	67824	182.81
CAB022	WI	61	468	30	2136	390324	182.74
HWD021	WI	61	531	11	121	21189	175.12
CVA022	WI	67	364	21	487	83087	170.61
NLV032	WI	64	536	12	184	31309	170.16
RBL023	WI	62	668	18	319	52527	164.66
TAD021	WI	61	335	7	349	56506	161.91
HAY081	WI	66	645	12	599	96267	160.71
ELM022	WI	66	585	8	83	13275	159.94
SPE021	WI	64	1001	12	124	19600	158.06
MCR021	WI			82	3599	565022	156.99
BFT061	WI	62	557	9	240	37368	155.70
GST023	WI	60	565	11	124	18950	152.82
MCO021	WI	63	392	26	3130	478326	152.82

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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
DUR022	WI	66	1010	27	70	10612	151.60
BKD021	WI	62	285	15	616	91988	149.33
ALM560	WI	66	15	1	1	149	149.00
BNT021	WI	62	466	12	1094	160326	146.55
RTL021	WI	63	1034	82	2032	297054	146.19
NFO031	WI	62	1296	20	1205	175917	145.99
ELS031	WI	65	743	4	28	4081	145.75
PHL021	WI	62	734	12	776	112006	144.34
NFO021	WI	62	1051	34	1659	238424	143.72
LAX067	WI	68	787	5	56	8030	143.39
CTS021	WI	64	718	10	888	125695	141.55
MLS021	WI	67	514	12	44	6156	139.91
MSE021	WI	62	29	6	130	18166	139.74
BLA023	WI	67	557	8	131	18242	139.25
MRC022	WI	63	1507	1	186	25482	137.00
PRE022	WI	60	663	7	48	6572	136.92
RBL022	WI	62	173	4	35	4788	136.80
CLL081	WI	60	486	9	130	17701	136.16
ELK001	WI	65	403	8	14	1895	135.36
SQN001	WI	62	3	3	9	1218	135.33
AUG022	WI	65	690	3	75	10107	134.76
TRE021	WI	67	18	3	6	808	134.67
GAL021	WI	67	1238	38	2859	382157	133.67
TCN081	WI	64	2048	39	806	107429	133.29
LYN021	WI	64	253	13	40	5292	132.30
BLA021	WI	67	671	17	125	16498	131.98
ALM559	WI	66	508	7	37	4878	131.84
NLV021	WI	64	984	5	2126	278871	131.17
WND081	WI	66	270	9	1003	130863	130.47
COC021	WI	66	397	10	1290	167776	130.06
PEP021	WI	66	897	30	2049	264811	129.24
SUP021	WI	63	149	7	604	77403	128.15
GOG001	WI	63	3	1	3	384	128.00
PSI021	WI	63	1247	105	8715	1115166	127.96
STM021	WI	65	520	8	49	6144	125.39
MAF062	WI	68	46	1	9	1125	125.00
SWC071	WI	68	255	4	42	5210	124.05
BYD001	WI	64	312	21	336	41603	123.82
WHH023	WI	67	745	8	45	5534	122.98
WLR082	WI	60	2160	34	2316	283816	122.55
WHR022	WI	62	218	14	579	70953	122.54
TCN091	WI	64	941	33	277	33753	121.85
FOL001	WI			18	809	98105	121.27
COU068	WI	68	1874	28	607	73356	120.85

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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
AUG021	WI	65	309	10	11	1299	118.09
VIR061	WI	67	1298	18	179	21102	117.89
WSM081	WI	67	1199	35	2694	316154	117.35
RCL031	WI	61	1356	60	974	114151	117.20
LON071	WI	65	654	10	267	31257	117.07
BIR022	WI	61	565	17	1017	118856	116.87
BYF021	WI	62	2131	75	5462	637626	116.74
CSH022	WI	67	425	18	27	3136	116.15
ELS022	WI	65	465	4	96	11079	115.41
WHR023	WI	62	236	22	705	81037	114.95
ETK021	WI	67	335	10	31	3551	114.55
CMR021	WI	61	1078	24	121	13848	114.45
FIN022	WI	61	1917	115	4267	488016	114.37
CSH021	WI	67	122	5	5	569	113.80
OTC022	WI	65	1565	16	118	13283	112.57
WHR021	WI	62	147	10	426	47766	112.13
MAF071	WI	68	1043	18	1259	140192	111.35
CAT021	WI	67	484	21	245	27251	111.23
FLC097	WI	65	605	4	18	2002	111.22
NAP021	WI	65	514	23	463	51200	110.58
HWK021	WI	61	224	7	711	78095	109.84
SND021	WI	61	2491	151	11045	1212943	109.82
SWC061	WI	68	353	3	3	326	108.67
OTC032	WI	65	1441	24	437	47485	108.66
EGA022	WI	66	347	11	43	4653	108.21
LAX063	WI	68	1484	11	139	15037	108.18
ARK081	WI	66	80	5	5	540	108.00
STN001	WI			1	15	1605	107.00
HLA071	WI	68	1205	12	63	6732	106.86
VAV001	WI	62	282	7	7	748	106.86
WIB569	WI	65	1235	31	1423	151105	106.19
CVA021	WI	67	668	14	278	29519	106.18
BAY021	WI	60	793	28	507	53508	105.54
TRL081	WI	61	1093	39	1549	159774	103.15
UPS001	WI	63	45	1	1	103	103.00
VIR002	WI	67	498	4	34	3498	102.88
MAF072	WI	68	631	5	7	720	102.86
GEN197	WI	68	760	8	816	83787	102.68
LAX065	WI	68	953	8	64	6523	101.92
MEN032	WI	66	1779	39	1022	103441	101.21
SPA032	WI	67	1775	30	210	21249	101.19
DRM021	WI	61	193	7	641	64603	100.78
FEN073	WI	68	946	19	127	12784	100.66
HAL073	WI	65	397	13	135	13526	100.19

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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
WTH001	WI	61	3	3	7	699	99.86
WHH022	WI	67	559	16	685	67899	99.12
RMS001	WI			16	808	79513	98.41
IRB001	WI	63	149	1	8	784	98.00
COU071	WI	68	1271	10	140	13702	97.87
STA082	WI	64	701	9	142	13886	97.79
CHF021	WI	65	641	5	627	61115	97.47
CHF022	WI	65	1562	14	1868	181913	97.38
SVN001	WI	62	290	4	463	44772	96.70
HWY021	WI	62	3	2	2	193	96.50
LYN022	WI	64	415	14	76	7324	96.37
MAD061	WI	65	315	4	9	861	95.67
ELS034	WI	65	282	2	2	191	95.50
GMT021	WI	60	197	15	846	80485	95.14
COU062	WI	68	1371	21	391	37096	94.87
ELS027	WI	65	2100	26	757	70958	93.74
FIN021	WI	61	654	11	70	6477	92.53
NLV031	WI	64	584	21	444	40737	91.75
EGA021	WI	66	116	9	56	5050	90.18
TRX032	WI	65	1786	28	368	33030	89.76
GLM021	WI	64	473	19	69	6141	89.00
STM022	WI	65	990	15	511	45430	88.90
COU077	WI	68	1765	27	574	50320	87.67
TRX031	WI	65	74	6	6	522	87.00
COU079	WI	68	546	3	94	8138	86.57
TRX022	WI	65	747	12	59	5104	86.51
TRL082	WI	61	82	5	118	10199	86.43
CHF023	WI	65	0	10	951	82143	86.38
BLD021	WI	63	629	18	1245	107505	86.35
STA081	WI	64	275	3	54	4662	86.33
STN002	WI			15	698	59963	85.91
DUR021	WI	66	482	5	48	4123	85.90
MAD062	WI	65	930	11	36	3092	85.89
SST061	WI	62	542	16	1454	124494	85.62
FAY001	WI	62	467	16	98	8351	85.21
LON072	WI	65	666	5	134	11375	84.89
AYR022	WI	63	872	31	1253	105998	84.60
LAX077	WI	68	1098	26	3741	312926	83.65
RIC081	WI	60	1968	35	494	41220	83.44
TWT081	WI	60	1097	27	1246	103091	82.74
RBL021	WI	62	134	6	23	1902	82.70
LOY021	WI	64	958	16	96	7884	82.13
STN003	WI			4	362	29635	81.86
EGP021	WI	65	2078	38	313	24821	79.30

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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
FEN061	WI	68	1182	16	470	36779	78.25
WLR081	WI	60	604	12	202	15737	77.91
HAL062	WI	65	1611	24	3918	304748	77.78
OTC023	WI	65	1369	17	2911	226330	77.75
WDM081	WI	61	746	31	1397	108018	77.32
SPA021	WI	67	175	8	108	8306	76.91
OPY081	WI	61	580	23	857	65550	76.49
GRV021	WI	62	106	2	106	8084	76.26
BEA414	WI	60	820	20	533	40595	76.16
WSM092	WI	67	1085	13	1446	109481	75.71
ONA061	WI	68	2208	40	5279	399588	75.69
CHF024	WI	65	1358	26	2125	160113	75.35
LAX062	WI	68	1845	28	242	18206	75.23
TRX023	WI	65	0	4	41	3059	74.61
SWC072	WI	68	1178	13	185	13776	74.46
MLN001	WI	62	585	16	695	51357	73.89
COU061	WI	68	1561	12	63	4637	73.60
MEN021	WI	66	872	23	276	20306	73.57
AMY001	WI	60	563	7	1170	85282	72.89
OGE021	WI	62	171	3	6	435	72.50
STA083	WI	64	553	7	21	1519	72.33
LON061	WI	65	1293	21	94	6774	72.06
RCD024	WI	66	380	10	195	14048	72.04
BAV001	WI	62	731	6	31	2215	71.45
TWN022	WI	63	673	23	1937	136826	70.64
RID082	WI	61	735	26	3533	248420	70.31
ELS033	WI	65	1488	21	312	21882	70.13
SST062	WI	62	586	8	1219	84788	69.56
COU069	WI	68	468	9	290	20155	69.50
OTC021	WI	65	460	17	726	50428	69.46
HAL072	WI	65	1149	14	482	33317	69.12
CPM032	WI	67	617	2	6	414	69.00
TRP022	WI	64	911	9	196	13293	67.82
YLR082	WI	61	1062	33	877	59235	67.54
HAL063	WI	65	1476	20	3330	222870	66.93
TRP021	WI	64	499	24	117	7785	66.54
PRN021	WI	62	764	26	395	26173	66.26
WTL062	WI	61	1127	22	296	19597	66.21
FEN062	WI	68	483	2	12	792	66.00
GST021	WI	60	394	5	445	29311	65.87
LOY022	WI	64	748	10	205	13479	65.75
CEF081	WI	66	808	25	941	61723	65.59
RSK021	WI	66	392	17	266	17153	64.48
LON062	WI	65	455	8	130	8377	64.44

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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
GVA021	WI	67	309	14	118	7596	64.37
HER001	WI	62	139	5	165	10579	64.12
MAF063	WI	68	1541	16	310	19653	63.40
MEN022	WI	66	1527	28	839	52353	62.40
MNR022	WI	62	109	5	132	8229	62.34
KIN081	WI	60	361	15	735	45601	62.04
CRN001	WI	62	117	2	138	8556	62.00
MNR021	WI	62	92	9	109	6613	60.67
OLU021	WI	62	90	4	97	5833	60.13
FEN072	WI	68	847	11	106	6367	60.07
MDR021	WI	66	148	6	60	3563	59.38
PTW001	WI	62	302	7	339	20052	59.15
IHD021	WI	63	320	14	997	58619	58.80
LAX075	WI	68	1601	22	3781	221992	58.71
WSM091	WI	67	1948	45	2912	170815	58.66
SXF021	WI	63	203	7	443	25942	58.56
ALC118	WI			16	378	21961	58.10
MAD072	WI	65	2103	35	406	23552	58.01
HLA062	WI	68	1417	21	1748	100218	57.33
CTA021	WI	62	313	11	415	23352	56.27
RKL021	WI	67	699	38	1823	100551	55.16
MEY021	WI	63	3	1	3	165	55.00
TRX033	WI	65	341	4	419	23021	54.94
HYD032	WI	65	2398	51	5971	325258	54.47
HAF001	WI	67	108	4	123	6670	54.23
CON021	WI	61	310	15	830	44996	54.21
WBN022	WI	62	435	9	531	28786	54.21
OSC022	WI	60	724	11	58	3143	54.19
ELS032	WI	65	1168	8	225	12109	53.82
JIM021	WI	65	360	10	67	3583	53.48
WLR091	WI	60	2216	20	250	13325	53.30
WLR092	WI	60	3734	47	5001	262902	52.57
LPA001	WI	62	3	1	3	156	52.00
WBN021	WI	62	831	4	949	49331	51.98
OSC021	WI	60	1221	20	78	3995	51.22
RID081	WI	61	525	18	1155	59067	51.14
CUM082	WI	60	101	1	107	5457	51.00
SCF025	WI	60	949	16	135	6793	50.32
PHL031	WI	62	990	34	321	16131	50.25
CUM081	WI	60	218	6	580	28420	49.00
RCD022	WI	66	101	3	3	147	49.00
RCD023	WI	66	887	23	2284	111189	48.68
HUR021	WI	63	291	5	223	10840	48.61
SCF024	WI	60	177	8	240	11641	48.50

CAIDI

Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
SPA022	WI	67	1683	18	267	12912	48.36
LAX076	WI	68	1153	17	1365	65088	47.68
ALC117	WI			6	936	44553	47.60
FEN063	WI	68	597	2	2	95	47.50
MEN023	WI	66	343	4	4	185	46.25
EGP022	WI	65	291	12	98	4483	45.74
SHW021	WI	65	262	12	480	21687	45.18
AYR021	WI	63	812	11	362	16095	44.46
IRW002	WI	63	561	9	2052	88888	43.32
IRW003	WI	63	530	6	552	22737	41.19
CLL082	WI	60	397	1	1	41	41.00
TRX021	WI	65	953	30	1287	52148	40.52
SLD021	WI	61	282	16	636	25220	39.65
ONA062	WI	68	939	19	1319	52253	39.62
SPR021	WI	66	744	18	1680	66099	39.34
SPA031	WI	67	1560	13	1712	64261	37.54
IRW005	WI	63	588	10	565	21093	37.33
BES021	WI	63	1057	25	2659	98091	36.89
LAX074	WI	68	631	18	1157	42105	36.39
SOE001	WI	62	500	3	3	109	36.33
BFT062	WI	62	424	3	130	4672	35.94
HAY082	WI	66	1685	21	2426	86875	35.81
MAD071	WI	65	733	12	67	2385	35.60
RSH091	WI	60	943	18	2384	84794	35.57
TUR022	WI	60	341	8	35	1205	34.43
MAF061	WI	68	269	2	34	1168	34.35
NSI001	WI	63	628	12	1421	46310	32.59
COU078	WI	68	1211	9	72	2346	32.58
BES022	WI	63	1082	13	2422	74505	30.76
CNR001	WI	63	3	2	12	366	30.50
JKS021	WI	63	4	2	10	305	30.50
HGN021	WI	63	6	2	12	366	30.50
TLA001	WI	63	1	2	2	61	30.50
TWN021	WI	63	691	22	1582	47603	30.09
OPK010	WI	60	346	9	604	17680	29.27
RSH081	WI	60	1983	27	3933	113001	28.73
TCN092	WI	64	2132	16	2371	62952	26.55
CHF031	WI	65	420	9	123	3153	25.63
RSH092	WI	60	286	6	460	11725	25.49
PRS563	WI	65	3	1	1	24	24.00
HUR022	WI	63	666	12	972	22165	22.80
VIR003	WI	67	893	17	1139	25754	22.61
GER001	WI			6	309	5261	17.03
BEA415	WI	60	377	8	234	3366	14.38

CAIDI

Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
NRA001	WI	63	470	4	991	12565	12.68
MNT001	WI	63	823	8	947	10601	11.19
TUR021	WI	60	284	1	1	7	7.00
GLA021	WI	63	75	2	81	522	6.44
LUP001	WI	63	3	1	3	18	6.00
ALC021	WI	67	222	0	0	0	0.00
ALC022	WI	67	391	0	0	0	0.00
ALN001	WI	63	6	0	0	0	0.00
BLA022	WI	67	17	0	0	0	0.00
BRA001	WI	63	1	0	0	0	0.00
CFO001	WI	61	3	0	0	0	0.00
COR198	WI	65	3	0	0	0	0.00
CPM022	WI	67	5	0	0	0	0.00
CPM023	WI	67	6	0	0	0	0.00
CPM024	WI	67	396	0	0	0	0.00
CPM025	WI	67	225	0	0	0	0.00
CPM026	WI	67	404	0	0	0	0.00
CPM033	WI	67	394	0	0	0	0.00
CPM034	WI	67	50	0	0	0	0.00
CPM035	WI	67	90	0	0	0	0.00
ELS021	WI	65	424	0	0	0	0.00
ELS023	WI	65	15	0	0	0	0.00
ELS024	WI	65	97	0	0	0	0.00
FLB010	WI	62	3	0	0	0	0.00
GAS62S	WI	62	4	0	0	0	0.00
GAS63E	WI	63	136	0	0	0	0.00
GAS63W	WI	63	404	0	0	0	0.00
GAS651	WI	65	2	0	0	0	0.00
GAS681	WI	68	23	0	0	0	0.00
GAS68A	WI	68	2	0	0	0	0.00
HYD021	WI	65	22	0	0	0	0.00
HYD022	WI	65	63	0	0	0	0.00
INO001	WI	62	3	0	0	0	0.00
IRP001	WI	63	3	0	0	0	0.00
IRW001	WI	63	352	0	0	0	0.00
JEF211	WI	65	87	0	0	0	0.00
JEF221	WI	65	5	0	0	0	0.00
LKH020	WI	64	3	0	0	0	0.00
LON063	WI	65	180	0	0	0	0.00
MEN031	WI	66	25	0	0	0	0.00
MID001	WI	63	3	0	0	0	0.00
MRC021	WI	63	111	0	0	0	0.00
OJB021	WI	63	5	0	0	0	0.00
OPK011	WI	60	9	0	0	0	0.00

CAIDI

Xcel Energy Wisconsin 2000 YE Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
OSC031	WI	60	17	0	0	0	0.00
PHL032	WI	62	3	0	0	0	0.00
PMP001	WI	61	6	0	0	0	0.00
PRS565	WI	65	3	0	0	0	0.00
RCD031	WI	66	3	0	0	0	0.00
RCD032	WI	66	6	0	0	0	0.00
RCD033	WI	66	3	0	0	0	0.00
RCL021	WI	61	51	0	0	0	0.00
RIC082	WI	60	25	0	0	0	0.00
RVW021	WI	65	81	0	0	0	0.00
SAX001	WI	63	3	0	0	0	0.00
STE471	WI	65	3	0	0	0	0.00
STE472	WI	65	3	0	0	0	0.00
SWC062	WI	68	12	0	0	0	0.00
TST001	WI	62	300	0	0	0	0.00
USR533	WI	65	6	0	0	0	0.00
USR534	WI	65	9	0	0	0	0.00
WAF001	WI	63	3	0	0	0	0.00
WBI021	WI	62	3	0	0	0	0.00
YLR081	WI	61	3	0	0	0	0.00

List of Worst Performing Circuits

PSC 113.0604(2)(b)

Attached is a listing of NSPW's worst performing circuits based on SAIFI, SAIDI and CAIDI and corresponding work plans containing the actions to be undertaken to remedy the conditions responsible for the rating.

Xcel Energy Contact :

Name	Phone	Email
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Xcel Energy's
Worst Performing Feeder & Tap Criteria Development

Criteria to be met:

Worst performing feeders should be based on both momentary and sustained outages. (MAIFI and SAIFI)

Meet Xcel corporate SAIDI, SAIFI, MAIFI, and CEMI (normalized) goals.

Xcel List Development:

Circuits that satisfy any of the following criteria will be classified as Worst Performers:

- Feeders with greater than or equal to 250,000 customer minutes of outage
- Feeders with MAIFI greater than or equal to 5.0
- Feeders with SAIFI greater than or equal to 5.0
- Taps with greater than or equal to 200,000 customer minutes of outage
- Taps with SAIFI greater than or equal to 6.0

- Check company-wide, storm normalized
- Feeder list output should show feeder, number of sustained feeder outages, number of momentary outages, SAIFI, SAIDI, and CAIDI
- Tap list output should show POI#, number of sustained outages, SAIFI, SAIDI, and CAIDI

Anne M. Adrian 11/14/00

Xcel Energy Inc.'s Worst Performing Feeders in WI

12 Month-Rolling Ending October 2000, Feeder Level Only, Excluding Storms

Feeder	# Custs Affected	Div	Tot Outs	Mom Cnt	Sus Cnt	Mom CustInts	Mom C-Mins	SAIDI	SAIFI	CAIDI
NLV021	987	64	2	0	2	0	0	280	2.1	2.18
GAL021	1790	67	1	0	1	0	0	182	0.7	4.43
GEN198	311	68	3	0	3	0	0	923	2.8	5.41
ONA061	2203	68	2	0	2	0	0	144	2.1	1.16

Xcel Energy Inc.'s Worst Performing POI's in WI

12 Month-Rolling Ending October 2000, Below Feeder Level Only, Excluding Storms, Excluding Cust Equip

POI	Feeder	# Custs Affected	Div	Tot Outs	Mom Cnt	Sus Cnt	SAIDI	SAIFI	CAIDI	Sus CustInts	Sus C-Mins	Tot Outs	Tot CustInts	Tot CustMins
AHB109	WLR082	1508	60	2	0	2	162	1.3	2.1	1979	243987	2	1979	243987
RHR301	SND021	1051	61	9	0	9	387	4.2	1.5	4394	406903	9	4394	406903
RHO369	SND021	641	61	3	0	3	336	2.5	2.2	1601	215453	3	1601	215453
RWP052	PSI021	779	63	3	0	3	546	2.4	3.8	1841	425089	3	1841	425089
RIP125	HUR022	191	63	4	0	4	1700	2.3	12.5	434	324730	4	434	324730
RWG003	MCR021	635	63	5	0	5	489	2.3	3.5	1463	310303	5	1463	310303
RWE002	MCR021	232	63	6	0	6	638	5.1	2.1	1172	148052	6	1172	148052
LSB045	WSM081	1102	67	2	0	2	279	2.4	2.0	2593	307372	2	2593	307372

OVERALL WORST PERFORMER WORK PLAN

Project Title: Worst Performing Tap - AHB109
Project Manager: Bob Molde

Outage History (11/01/99 thru 10/31/00)

Feeder Name – Willow River 082

Date	Time	Duration	Level	Cause
02/23/00	0606	02/09	Feeder	Pole Fire
07/07/00	1144	03/41	Feeder b-ph	Wind & Lightning
07/07/00	1142	06/53	Feeder c-ph	Wind & Lightning
08/12/00	2346	01/45	Lightning	
08/26/00	0158	16/37	Wind	

Workplan

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Address DDS issue	Dispatch/ operations	01/01/01		Process imrovement	
2	New Somerset sub	Devlopment Management	01/01/02	12/31/02	New substation	Needs budget approval.
4						
5						
6						

This line was updgraded to 336 ACSR four years ago using the new feeder construction standard with a lightning arrester on each pole top. Realistically there were no outages at this device longer than 2 hours this past year. When a storm goes through individual services along the line are taken out by lightning but DDS escalates back to AHB109. AHB109 may not have been out at all. The job doesn't get closed until all downstream customers are back in. Operations personnel will be instructed to try to create "child" jobs downstream for individual customers and taps so the mainline device, "parent device", doesn't get recorded with the long outage times that never actually occurred.

A new substation is planned for Somerset in 2002 which will reduce the amount exposure on device AHB109.

OVERALL WORST PERFORMER WORK PLAN

Project Title: Worst Performing Feeder – GAL021
Project Manager: Bob Molde

Outage History (11/01/99 thru 10/31/00)

GAL021

Date	Time	Duration	Level	Cause
7/21/00	2250	04/26	Feeder	Public Damage – Broken Pole
8/21/00	0533	00/00	Xmission	Lightning
9/01/00	1257	00/00	Xmission	Wind & Lightning

Workplan for GAL021

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	No action recommended at this time.					
2						

The feeder length to the first downstream device is about 1 mile. The line is in good condition and tree clearance is satisfactory. The only distribution caused outage was the broken pole due to a car hit. The other two outages were transmission momentaries.

OVERALL WORST PERFORMER WORK PLAN

Project Title: GEN198
Project Manager: Bob Molde

Outage History (11/01/99 thru 10/31/00)

GEN198

Date	Time	Duration	Level	Cause
11/23/99	0356	06/50	Feeder	Broken conductor
3/22/00	2047	01/45	Xmission	Other Utility
9/28/00	2004	04/36	Feeder	Tree Contact
10/14/00	0138	04/57	Feeder	Tree Contact

Workplan for GEN198

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Relocate 1 mile of 3-phase overhead line off bluff.	Lyle Newburg	02/01/01	05/01/01	Line relocated.	Waiting for permits. 3/23/01
2						

Some of this 3-phase feeder is still located up on the bluff's above the Mississippi River along STH 35 south of LaCrosse. The line serves mainly the village of Desoto. Two sections totalling approximately 1 mile of line need to be relocated because the hillsides are eroding away. Because of the steepness of the terrain any trees that fall from above land in the line. The citizens from the village of Desoto has complained about the number of outages in 2000. To relocate the line down to Highway 35 requires permits from a National Scenic River authority???

OVERALL WORST PERFORMER WORK PLAN

Project Title: Worst Performing Tap - LSB045
Project Manager: Bob Molde

Outage History (11/01/99 thru 10/31/00)

Date	Time	Duration	Level	Cause
2/23/00	0741	02/10	Feeder	Pole Fire
4/07/00	0716	01/36	Feeder	Insulator Failure
7/09/00	0829	12/27	Feeder	Lightning

Workplan

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Pole replacements - due to storm.	Lyle Newburg	7/9/00	7/9/00	7 danger poles replaced in 2000	Completed
2	Check protection coordination	Bob Molde	2/01/01	4/01/01	Protection changes made as necessary.	
4	Install line arresters - on St. Joe's Ridge (4 miles)	Bob Molde	2/01/01	5/01/01	Ligtning arresters installed	
5						

The feeder condition is good. A cross country stretch through a wooded valley required pole replacements after strom in July. Protection coordination will be reviewed since there are 70 amp reclosers downstream of the 100 amp reclosers at LSB045. St. Joe's ridge, the last four miles of the feeder, has had a history of lightning problems so area engineering recommends retrofit lightning arresters at 4 to 5 sets per mile.

OVERALL WORST PERFORMER WORK PLAN

Project Title: Worst Performing Feeder – NLV021
Project Manager: Bob Molde

Outage History (11/01/99 thru 10/31/00)

NLV021

Date	Time	Duration	Level	Cause
2/25/00	2104	00/00	Xmission	Wind & Lightning
4/21/00	2253	00/00	Xmission	Unknown
4/22/00	2356	00/00	Xmission	Wind & Lightning
4/23/00	0004	00/00	Xmission	Wind & Lightning
4/24/00	0008	00/00	Xmission	Wind & Lightning
5/24/00	1537	2/59	Feeder	Tree Contact
7/09/00	0319	00/00	Xmission	Wind & Lightning
8/08/00	0146	00/00	Xmission	Wind & Lightning
8/13/00	0219	00/00	Xmission	Wind & Lightning
9/03/00	0303	00/00	Xmission	Wind & Lightning
9/11/00	0349	00/00	Xmission	Wind & Lightning

Workplan for NLV021

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Referred to transmission reliability group.	Don Jones				
2						

OVERALL WORST PERFORMER WORK PLAN

Project Title: Worst Performing Feeder – ONA061
Project Manager: Bob Molde

Outage History (11/01/99 thru 10/31/00)

Feeder Name

Date	Time	Duration	Level	Cause
5/31/00	0510	00/00	Xmission	Wind & Lightning
8/06/00	0216	01/25	Feeder	Primary cable failure
8/18/00	0515	00/54	Feeder	Primary cable failure

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Replace ½ mile of 750 AL 3-phase cable	Ken Hilby	10/15/00	01/11/01	Cable replaced & feeder re-energized	Complete
2						

Cable test results from the Maple Grove testing lab recommened immediate replacement. A written agreement with the City of Onalaska stipulated that this section of line remain underground. The cable was replaced in November and terminations completed January 11, 2001, and the line placed back in service.

OVERALL WORST PERFORMER WORK PLAN

Project Title: Worst Performing Tap - RHO-369
Project Manager: Bob Molde

Outage History (11/01/99 thru 10/31/00)

Date	Time	Duration	Level	Cause
8/14/00	1843	11/55	Tap	Lightning
8/15/00	0639	01/01	Tap	Lightning
8/15/00	0835	03/24	Tap	Tree Contact
12/20/99	1928	02/17	Tap	Tree Contact

Workplan

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	No action recommended at this time.					
2						

This line was rebuilt in 1999 and the right-of-way trimmed. The tree contacts are from trees off the right-of-way.

OVERALL WORST PERFORMER WORK PLAN

Project Title: Worst Performing Tap - RHR-301

Project Manager: Bob Molde

Outage History (11/01/99 thru 10/31/00)

Date	Time	Duration	Level	Cause
1/10/00	1108	00/08	Feeder	Intentional
4/14/00	2136	01/54	Feeder	Lightning
5/23/00	1619	01/31	Feeder	Tree Contact
5/24/00	1319	01/47	Feeder	Tree Contact
5/24/00	1535	01/25	Feeder	Tree Contact
5/24/00	1536	01/35	Feeder	Tree Contact – Removed this duplicate job.
6/21/00	1006	02/17	Feeder	Tree Contact
6/21/00	1751	02/05	Feeder	Tree Contact
6/27/00	1108	00/29	Feeder	Accidental By NSP Other/Unkown

Workplan

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Rebuild the RHO383 tap	Paul Randby	02/01/01	06/01/01	Line rebuilt	
2	Install an electronic sectionalizer at RHO383	Bob Molde	02/01/01	06/01/01	Device purchased and installed	
4	Fuse unfused taps downstream of RHR-301	Paul Randby	02/01/01	06/01/01	Fused cutouts installed.	

Because RHR301 was placed on manual (non-reclose) during the rebuild of the feeder in 2000, the outages were caused by faults on downstream devices. The single-phase overhead tap downstream of RHO383 for 2.6 miles is in very poor condition, 1930's vintage plant. Rebuilding this tap and installing an electronic sectionalizer should improve reliablity and protection coordination in this area.

OVERALL WORST PERFORMER WORK PLAN

Project Title: Worst Performing Tap - RIP125

Project Manager: Bob Molde

Outage History (11/01/99 thru 10/31/00)

Date	Time	Duration	Level	Cause
11/23/99	1858	05/49	Feeder	Wind/Snow
11/23/99	1849	06/07	Feeder	Wind/Snow (Deleted this job)
11/23/99	1854	08/44	Feeder	Wind/Snow (Deleted this job)
11/23/99	1155	21/10	Feeder	Conductor Contact - Galloping

Workplan

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Correct DDS -	Tom Koleski	01/15/01	01/19/01	Changes made	Deleted 2 jobs
2						

All of the recorded outages were the same outage, different phases, caused by hanging/fallen trees in the lines due to a significant heavy wet snow fall and wind. Tree trimming is adequate within the 15' easment limits; the aspens that fell on the lines were outside the easments in most cases. This overhead circuit is in overall good shape.

OVERALL WORST PERFORMER WORK PLAN

Project Title: Worst Performing Tap - RWG003

Project Manager: Bob Molde

Outage History (11/01/99 thru 10/31/00)

Date	Time	Duration	Level	Cause
6/21/00	1237	04/37	Feeder	Tree Contact
6/21/00	1732	03/37	Feeder	Tree Contact (Deleted this job)
6/21/00	1747	03/22	Feeder	Tree Contact (Deleted this job)
6/21/00	1933	01/53	Feeder	Tree Contact
7/08/00	1221	01/32	Feeder	Lightning
8/25/00	1933	01/57	Feeder	Lightning

Workplan

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Rebuild 1 mile of 3-ph overhead line	Dave Zak	02/01/01	05/01/01	3-sections rebuilt.	
2	Check & correct DDS	Tom Koleski	01/15/01	01/19/01	DDS corrected	Deleted 2 jobs
4						
5						

Sections of this 3-phase overhead line have been rebuilt. There are about 3 sections remaining amounting to 1 mile with #6 copper conductors that break easily when contacted by fallen trees and branches. The poles and attachments are also in poor condition. At least two of the outages recorded on 6/21/00 were the same outage. Tree trimming meets the company specs within the 15 foot right-of-way.

OVERALL WORST PERFORMER WORK PLAN

Project Title: Worst Performing Tap - RWP-052

Project Manager: Bob Molde

Outage History (11/01/99 thru 10/31/00)

Date	Time	Duration	Level	Cause
4/05/00	1606	02/44	Feeder	Tree Contact
6/20/00	1946	02/21	Feeder	Tree Contact
6/21/00	1208	11/10	Feeder	Tree Contact

Workplan

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Protection changes	Bob Molde	02/01/01	05/01/01	Change RWP052 reclosers to 140 amp	
2	Reconductor center phase.	Dave Zak	01/15/01	05/01/01	2/0 center phase below RWJ052.	

The protective margin between the 100 amp reclosers, RWP052, at the sub and the downstream 70 amp reclosers. RWJ052 is tight which can cause miscoordination for activity downstream of RWJ052. The 100 amp reclosers will be changed out to 140 amp. A second problem downstream of RWJ052 is the center phase conductor which is brittle #6 cu conductor versus 2/0 ACSR on the outside conductors for 3 miles. The center phase consistantly breaks when a tree or limb falls on it. A project has been designed to reconductor the center phase to 2/0 ACSR this winter.

Alternative Criteria Ranking

PSC 113.0604(2)(c)

Attached as Tab 2 is a listing of NSPW's worst performing circuits based on SAIFI, SAIDI and CAIDI. No alternative ranking criteria was used.

Xcel Energy Contact :

Name	Phone	Email
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Accomplishment of Improvements Proposed in Prior Years

PSC 113.0604(2)(d)

Due to the "recent" enactment of PSC 113.0604, this is the first year the Annual Report has been filed. Therefore, there are no accomplishments of improvements proposed in prior years to report. This section will be included in the Annual Report filed in 2002 for year 2001.

Xcel Energy Contact :

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New Reliability or Power Quality Programs

PSC 113.0604(2)(e)

NSPW currently has field engineers who work with customers to address power quality issues. Field representatives work with customers to determine from which side of the meter the issue might originate. If on the utility side of the meter, appropriate action is taken to address the cause. If it is determined that the source or cause of the problem is on the customer's side of the meter, the NSPW field representatives work with the customers to identify available parties who might assist the customer to determine the source and correct the problem.

NSPW previously conducted limited power quality analyses at the customer's request on the customer's side of the meter. Those fee based power quality services and investigations are now offered by Xcel Energy Retail Services Group Inc.

Xcel Energy Contact :

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Brian D. Amundson	(715) 839-4645	brian.d.amundson@xcelenergy.com

Long Range Distribution Plans

PSC 113.0604(2)(f)

Attached is a list of the capacity related distribution projects currently planned for the years 2001, 2002 and 2003, a short description of each, and their estimated associated costs.

Xcel Energy Contact :

Name	Phone	Email
Jean A. Waltz	(651) 458-4488	jean.a.waltz@xcelenergy.com

Xcel Energy, Inc.'s Wisconsin Distribution Capacity Related Projects 2001 - 2003

Project description	2001	2002	2003	Total
Jeffers Sub distribution feeder circuits	$ 122,257	$ -	$ -	$ 122,257
Eagle Point distribution portion	$ 175,286	$ -	$ -	$ 175,286
Eagle Point substaion upgrade	$ 810,480			$ 810,480
Osseo Area Substation distribution portion	$ 115,588	$ -	$ -	$ 115,588
Hydro Lane 21, 22 convert from 12.5KV to 23KV	$ 78,583	$ -	$ -	$ 78,583
DOT road move: CTHB north to Colfax 2 miles	$ 122,272	$ -	$ -	$ 122,272
Bugle Lake: New feeder distribution work	$ 50,454	$ -	$ -	$ 50,454
Mayfair 73 distribution feeder work	$ 154,759	$ -	$ -	$ 154,759
Coulee Feeder distribution work	$ 52,620	$ -	$ -	$ 52,620
Bruce & Amacoy Lak conversion	$ 139,869	$ -	$ -	$ 139,869
FIN underbuild (BFT-SLK)	$ 103,208	$ -	$ -	$ 103,208
Doughty Rd. Dist. feeder voltage conversion	$ 581,124	$ -	$ -	$ 581,124
Hawkins Conversion	$ 120,000	$ -	$ -	$ 120,000
Ladysmith south Construct new 69/23.9 sub	$ 398,647	$ 3,610	$ -	$ 402,257
Jeffers Road Subst construct new sub	$ 113,647	$ -	$ -	$ 113,647
Ladysmith Hydro convert 23.9 to 34.5 KV	$ 124,389	$ -	$ -	$ 124,389
US Rubber Increase capacity	$ 3,420	$ 198,000	$ -	$ 201,420
Cameron replace transformer	$ 15,662	$ 345,000	$ -	$ 260,662
Trempeleau- upgrade transformer	$ 102,538	$ -	$ -	$ 102,538
Swift Creek replace cap bank switch	$ 16,635	$ 295,820	$ -	$ 312,455
Owen substation Increase capacity and rebuild sub	$ 284	$ 103,253	$ 300,000	$ 403,537
Conrath Substation transfer load & remove	$ 2,769	$ 50,000	$ -	$ 52,769
Rockland Upgrade substation capacity	$ -	$ 181,323	$ -	$ 223,310
Marenisco - increase capacity	$ -	$ 80,000	$ -	$ 80,968
Somerset - New sub	$ -	$ 416,553	$ -	$ 579,445
DUR21/22 capacity upgrade	$ -	$ 126,800	$ -	$ 129,896
Phillips upgrade TR01	$ -	$ 207,000	$ -	$ 214,744
Viroqua Upgrade 69 KV bus to 1200 amps	$ -	$ 234,835	$ -	$ 266,578
Rice Lake replace TR's	$ -	$ -	$ 1,600,000	$ 160,000
Nelson Lake circuit upgrade	$ -	$ 110,000	$ -	$ 110,000
Viroqua Add 2nd 13.8 KV feeder	$ -	$ 64,697	$ -	$ 64,732
Coulee add 9th feeder	$ -	$ -	$ 166,000	$ 166,000
Coulee add COU072 feeder bay	$ 198,136	$ -	$ -	$ 198,136
Construct new Bugle Lake sub	$ 613,769	$ -	$ -	$ 613,769
Hydro Lane upgrade transf & bus to 23 KV	$ 747,452	$ -	$ -	$ 747,452
New Ossea Area substation	$ 232,697	$ -	$ -	$ 232,697
Baldwin to Hammond Wi south loop	$ 9,054	$ 194,000	$ -	$ 203,054
Willow River feeder extension along STH35	$ 9,845	$ 267,000	$ -	$ 276,845
Amery; Bear Trap to Griffin St. tie	$ 6,778	$ 157,000	$ -	$ 163,778
Amery Reconductor GST23 #2 Cu	$ -	$ -	$ 75,000	$ 75,000
Somerset new sub(dist work)	$ 77,852	$ 80,279	$ -	$ 158,131
Willow River north feeder	$ -	$ -	$ 200,000	$ 200,000
Amery convert 4KV to 12.5KV	$ -	$ -	$ 230,000	$ 230,000
Amery add 3rd phase on Volga line	$ -	$ -	$ 152,000	$ 152,000
New Richmond Hwy 64 stepdown conversions	$ -	$ -	$ 100,000	$ 100,000
Griffen St 3rd feeder	$ -	$ -	$ 125,000	$ 125,000
Haugen - Birchwood tie	$ -	$ -	$ 300,000	$ 300,000
Mellen conversion	$ -	$ -	$ 400,000	$ 400,000
Hayward Rebuild east of Nelson Lake	$ -	$ -	$ 75,000	$ 75,000
Montreal conversion	$ 9,318	$ 237,000	$ -	$ 246,318
Boyceville conversion	$ -	$ -	$ 50,000	$ 50,000
Presque Isle add phase to Van Vliet Lake line	$ -	$ -	$ 100,000	$ 100,000
	$ 5,309,392	$ 3,352,170	$ 3,873,000	$ 11,243,027

Xcel Energy Wisconsin Reliability Indices for year 2000

System Aggregate Numbers Without Storms

SAIFI = 1.01 CAIDI = 93.70 min. SAIDI = 94.64 cust-min.

Aggregate numbers by Operating Area Without Storms

60	Indianhead – Amery	SAIFI = 0.90	CAIDI = 84.84	SAIDI = 76.36
61	Lakes-Rice Lake	SAIFI = 1.70	CAIDI = 113.96	SAIDI = 193.73
62	Lake Superior – Ashland	SAIFI = 1.26	CAIDI = 113.10	SAIDI = 142.51
63	Range – Ironwood	SAIFI = 2.09	CAIDI = 87.65	SAIDI = 183.19
64	Central East – Abbotsford	SAIFI = 0.65	CAIDI = 114.40	SAIDI = 74.36
65	Central Metro – Eau Claire	SAIFI = 0.72	CAIDI = 79.03	SAIDI = 56.90
66	Central West – Menomenie	SAIFI = 0.97	CAIDI = 84.18	SAIDI = 81.65
67	Southern – Blair/Sparta	SAIFI = 0.82	CAIDI = 92.93	SAIDI = 76.20
68	LaCrosse	SAIFI = 0.72	CAIDI = 82.85	SAIDI = 59.65

Route Miles of Reconstructed Lines

PSC 113.0604(3)(a)

Route miles of reconstructed lines for year 2000.

Miles	Phase	Overhead vs. Underground
35 miles	1 – phase	Overhead
14 miles	3 – phase	Overhead
6 miles	1 – phase	Underground
3 miles	3 – phase	Underground

Xcel Energy Contact :

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Route Miles by Voltage

PSC 113.0604(3)(b)

Route miles by voltage for year 2000.

	Voltage	Miles	Percent
	4.16 kV	468	5%
	12.47 kV and 13.8 kV	6,700	73%
	23.9 kV	2,020	22%
Total		9,188	100%

The number of route miles is not specifically kept by voltage. The about are estimates based on the 9,188 route miles in service on 12/31/2000.

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Average Monthly Speed of Answer

PSC 113.0604(3)(c)

The overall average speed of answer (ASA) for customer service calls including billing problems, outages, and emergencies for year 2000 was 19 seconds. This calculation uses the average speed of answer as defined in § PSC 113.0503(1) (b).

The year 2000 monthly average speed of answer for billing problems, outages and emergencies was:

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Billing	10	17	12	19	19	15	18	14	25	25	15	33
Outages	16	28	7	27	11	12	22	16	16	11	29	46
Emergencies	1	0	0	1	0	2	1	1	2	10	2	2

Xcel Energy Contact :

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Christopher J. Walker	(715) 838-4045	christopher.j.walker@xcelenergy.com

Average Days to Energize Service

PSC 113.0604(3)(d)

Average days to energize electric service for year 2000. The average days to energize service is calculated by comparing the mutually agreed to day the customers has indicated the project will be ready for service and the actual completion date the service was installed as entered into the project management software.

	Month	Electric Connections	Days	Average Days
1	January	125	1,431	11.4
2	February	54	305	5.6
3	March	95	742	7.8
4	April	200	1,700	8.5
5	May	312	1,296	4.2
6	June	340	1,297	3.8
7	July	273	1,221	4.5
8	August	394	2,302	5.8
9	September	313	1,725	5.5
10	October	389	3,329	8.6
11	November	394	2,488	6.3
12	December	145	985	6.8
Year 2000 Total		3,034	18,821	6.2

Xcel Energy Contact :

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Julie A. Simon

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(715) 838-4006

Email
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Written and Telephone Complaints

PSC 113.0604(3)(e)

A table of the written and telephone complaints by month for the year 2000 is attached.

Xcel Energy Contact :

Name	Phone	Email
Denae Eslinger	(715) 838-4150	denae.slinger@xcelenergy.com

PSCW Category	Year 2000	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Billing	48	6	5	3	2	4	4	4	2	6	4	4	4
Other	109	3	2	3	17	9	10	11	10	6	7		31
Outage	2		1							1			
Total	159	9	8	6	19	13	14	15	12	13	11	4	35

PSCW Category	Inquiry Type	Year 2000	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Billing	Deposit - Commercial	1							1					
Billing	Deposit - Residential	1											1	
Billing	Disputed Billing	3	1	1					1					
Billing	Disputed Transfer	12	1	1	1	1		2	1		2	1	2	
Billing	Estimate/No Meter Reading - Electric	1					1							
Billing	High Bill-Electric	5	1								1	1		2
Billing	High Bill-Gas	1									1			
Billing	Meter Reading Error-Electric	2	1					1						
Billing	Other-Billing Policy	4	1						1	1			1	
Billing	Payment Posting	1										1		
Billing	Rate Application Dispute	4	1	1	1	1								
Billing	S.O.D. Pay Bill Agent Payment Posting	1					1							
Billing	Shared Meter	1		1							1			1
Billing	Switched Meters	3					1							
Billing	Tenant Change	8		1	1		1	1		1	1	1		1
Other	Discourteous / Rude Employee	1												
Other	Energy Diversion	1							1					
Other	Field Service Electric	2	1							1				
Other	Field Service-Electric Trouble	1												
Other	Field Service-Gas	1								1				
Other	Gas Service Extension	1					1			1				
Other	Misinformation by Credit Personnel	5	1	1		2	1							
Other	Notice - Broken Arrangements	21				8	3	3	4	1	1	1		
Other	Other-Collections Related	1												
Other	Other-Credit Policy	36	1	1	2	2			1					30
Other	Other-Policy	2			1									1
Other	Rate Issue	2								2				
Other	S. O. Notice-Argmts. Requested/Refused	5							2			3		
Other	Service Extension-Gas and Electric	1							1					
Other	Service Work-Quality	1									1			
Other	Shut Off Delinquent	28				5	4	7	2	4	3	3		
Outage	Electric Outage	2		1							1			
Total		159	9	8	6	19	13	14	15	12	13	11	4	35

Annual Tree Trimming Budget and Expenses

PSC 113.0604(3)(f)

The Wisconsin total annual expenditure budget for the year 2000 was $4,315,231 while actual expenditures for the same period totaled $4,391,218. These dollars include distribution and transmission line clearance maintenance as well as departmental overheads.

Xcel Energy Contact :

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Projected and Actual Distribution Miles Trimmed

PSC 113.0604(3)(g)

Distribution line miles projected to be trimmed during 2000 were 2,171. At year end, a total of 2,035 miles were actually trimmed.

Xcel Energy Contact :

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