Xcel Energy℠

(4220)

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Hand Delivered

May 1, 2003

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 05-GF-113

Dear Ms. Dorr:

On August 1, 2000, Wis. Admin Code Ch. PSC 113 – Service Rules for Electric Utilities (PSC 113) 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 the original and two copies of the Annual Report for Northern States Power Company – Wisconsin, d/b/a Xcel Energy. Electronic copies of the filing and supporting documentation are available upon request.

Please feel free to contact me at 608.280.7301, or at brian.r.zelenak@xcelenergy.com if you have any questions regarding this filing or its contents.

Respectfully submitted,

Brian R. Zelenak
Manager, Regulatory Policy

enc.

c: Scot Cullen
James Lepinski
Internal

MFC

2002
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, 2003

Table of Contents

Description	Tab
1. PSC 113.0604 (2) (a)	Tab 1
Overall Assessment of SAIFI, SAIDI, and CAIDI by Operating Area	
SAIFI : Feeder Level Including All Weather Conditions	Tab 1.1
SAIDI : Feeder Level Including All Weather Conditions	Tab 1.2
CAIDI : Feeder Level Including All Weather Conditions	Tab 1.3
ALL : Feeder Level Including All Weather Conditions	Tab 1.4
ALL : Feeder Level Storm Normalized	Tab 1.5
2. PSC 113.0604(2)(b)	Tab 2
List of Worst Performing Circuits	
Worst Performing Feeder and Tap Criteria Development	Tab 2.1
Worst Performing Feeders	Tab 2.2
>= 250,000 Sustained Customer Minutes	Tab 2.2.1
MAIFI >= 5	Tab 2.2.2
SAIFI >= 5	Tab 2.2.3
Worst Performing Points of Interest (POI)	Tab 2.3
>= 200,000 Sustained Customer Minutes	Tab 2.3.1
SAIFI >= 6	Tab 2.3.2
Worst Performing Work Plans	Tab 2.4
Worst Performing Feeder Work Plans	Tab 2.4.1
Worst Performing TAP (POI) Work Plans	Tab 2.4.2
3. PSC 113.0604(2)(c)	Tab 3
Alternative Criteria Ranking	
4. PSC 113.0604(2)(d)	Tab 4
Accomplishment of Improvements Proposed in Prior Years	
5. PSC 113.0604(2)(e)	Tab 5
New Reliability or Power Quality Programs	
6. PSC 113.0604(2)(f)	Tab 6
Long Range Distribution Plans	
7. PSC 113.0604(3)(a)	Tab 7
Route Miles of Reconstructed Lines	
8. PSC 113.0604(3)(b)	Tab 8
Route Miles by Voltage	
9. PSC 113.0604(3)(c)	Tab 9
Average Monthly Speed of Answer	

10. PSC 113.0604(3)(d) — Tab 10
Average Days to Energize Service

11. PSC 113.0604(3)(e) — Tab 11
Written and Telephone Complaints

12. PSC 113.0604(3)(f) — Tab 12
Annual Tree Trimming Budget and Expenses

13. PSC 113.0604(3)(g) — Tab 13
Projected and Actual Distribution Miles Trimmed

TAB 1

Overall Assessment of SAIFI SAIDI and CAIDI by Operating Area and System Aggregate

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

PSC 113.0604 (2) (a)

Attached is the overall assessment of SAIFI, SAIDI and CAIDI for Xcel Energy's Wisconsin System, and by operating area for the Wisconsin jurisdiction ranked from highest to lowest by each criteria, including storms.

Xcel Energy Contact : David A. Clark

Xcel Energy Wisconsin Reliability Indices for year 2002

System Aggregate Numbers *With Storms*			System Aggregate Numbers *Without Storms*		
SAIFI	**CAIDI**	**SAIDI**	**SAIFI**	**CAIDI**	**SAIDI**
1.29	160.55	206.68	0.97	123.81	120.48

	Aggregate numbers by Operating Area *With Storms*			Aggregate numbers by Operating Area *Without Storms*		
	SAIFI	**CAIDI**	**SAIDI**	**SAIFI**	**CAIDI**	**SAIDI**
60 Indianhead – Amery	1.13	141.37	159.75	0.81	111.25	90.50
61 Lakes-Rice Lake	2.74	180.26	494.26	1.92	117.48	225.14
62 Lake Superior – Ashland	0.97	131.36	127.07	0.75	125.26	93.63
63 Range – Ironwood	2.62	211.46	555.02	2.01	129.01	259.92
64 Central East – Abbotsford	1.33	321.69	428.70	0.98	331.61	323.43
65 Central Metro – Eau Claire	1.07	102.56	110.14	0.90	77.39	69.46
66 Central West – Menomenie	1.55	112.90	175.06	0.98	91.72	90.19
67 Southern – Blair/Sparta	0.60	175.32	105.66	0.53	167.92	89.78
68 LaCrosse	0.65	80.66	52.65	0.54	72.94	39.35

TAB 1.1

SAIFI : Feeder Level Including All Weather Conditions

SAIFI 2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
	Grand Total:		233246	6301	300259	48207074	1.29
SQN001	Wisc North	62	6	16	96	33540	16.00
PSI021	Wisc North	63	1275	126	11262	1921800	8.83
RTL021	Wisc North	63	1048	91	7351	2281536	7.01
WDM081	Wisc North	61	758	51	4652	1006938	6.14
SUP021	Wisc North	63	152	14	929	124239	6.11
TRL081	Wisc North	61	822	39	4924	916018	5.99
SND021	Wisc North	61	2555	166	14717	1907123	5.76
RTL022	Wisc North	63	926	78	5308	1874678	5.73
MRC022	Wisc North	63	1537	100	8657	2048940	5.63
TRL082	Wisc North	61	363	29	2039	424189	5.62
RCL031	Wisc North	61	1381	76	7361	626818	5.33
PEP021	Wisc Central	66	893	55	4554	503446	5.10
TWT081	Wisc North	60	1158	71	5431	735816	4.69
COU078	Wisc South	68	1212	17	5001	288416	4.13
NEL021	Wisc Central	66	247	7	997	64864	4.04
HAY082	Wisc Central	66	1713	28	6575	948241	3.84
IHD021	Wisc North	63	326	19	1220	189628	3.74
TCN091	Wisc Central	64	949	54	3438	962355	3.62
RBL022	Wisc North	62	176	20	610	61105	3.47
BIR021	Wisc North	61	951	53	3108	895842	3.27
CSH021	Wisc South	67	121	12	392	77526	3.24
RBL023	Wisc North	62	660	32	2109	201976	3.20
ELS034	Wisc Central	65	311	13	985	69567	3.17
OTC021	Wisc Central	65	553	14	1730	140641	3.13
CPM023	Wisc South	67	6	8	18	4553	3.00
SXF021	Wisc North	63	204	13	609	62808	2.99
PRN021	Wisc North	62	776	36	2311	284972	2.98
RBL021	Wisc North	62	138	19	406	39353	2.94
MCO021	Wisc North	63	397	20	1163	154166	2.93
TCN092	Wisc Central	64	2087	40	5949	2008474	2.85
EGP211	Wisc Central	65	1232	89	3488	573729	2.83
CSH022	Wisc South	67	434	24	1217	260822	2.80
RID081	Wisc North	61	539	38	1508	232716	2.80
WTL062	Wisc North	61	1116	50	3120	1094604	2.80
WHR021	Wisc North	62	150	9	419	55933	2.79
SCF025	Wisc North	60	992	22	2604	136301	2.63
EGA021	Wisc Central	66	117	11	303	42881	2.59
MRC021	Wisc North	63	114	12	292	30815	2.56
WTL061	Wisc North	61	1288	38	3294	1599502	2.56
OGE021	Wisc North	62	172	14	428	27428	2.49
ALM559	Wisc Central	66	507	13	1258	91715	2.48
MDR021	Wisc Central	66	147	21	362	50524	2.46
BIR022	Wisc North	61	578	25	1418	423798	2.45
OSC021	Wisc North	60	1243	34	2995	156380	2.41
HYD032	Wisc Central	65	2687	96	6354	625288	2.36
MAF071	Wisc South	68	1064	18	2462	136820	2.31
COU079	Wisc South	68	547	14	1265	18824	2.31

SAIFI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
	Grand Total:		233246	6301	300259	48207074	1.29
RIC081	Wisc North	60	2102	117	4839	1324969	2.30
OTC031	Wisc Central	65	1757	40	4025	338455	2.29
CPM035	Wisc South	67	108	5	244	58846	2.26
OWN021	Wisc Central	64	1246	48	2811	1281430	2.26
SCF024	Wisc North	60	224	18	504	51667	2.25
AYR022	Wisc North	63	893	36	1982	339996	2.22
TCN081	Wisc Central	64	2068	55	4548	1856605	2.20
GLA021	Wisc North	63	75	5	164	28872	2.19
RCL021	Wisc North	61	51	4	111	3139	2.18
GEN198	Wisc South	68	274	6	595	92000	2.17
OTC023	Wisc Central	65	1376	9	2916	96773	2.12
CUM081	Wisc North	60	229	12	471	36413	2.06
CPM026	Wisc South	67	401	4	817	214869	2.04
CPM033	Wisc South	67	393	7	794	210192	2.02
CPM024	Wisc South	67	399	5	801	213118	2.01
CPM025	Wisc South	67	225	4	451	120642	2.00
CPM032	Wisc South	67	618	3	1237	329642	2.00
ALM560	Wisc Central	66	15	2	30	1890	2.00
CPM034	Wisc South	67	52	2	104	27716	2.00
EWA001	Wisc North	61	3	2	6	444	2.00
GMT021	Wisc North	60	198	9	395	77941	1.99
CAD061	Wisc Central	65	54	6	107	76967	1.98
ARK081	Wisc Central	66	85	12	168	15194	1.98
ARK082	Wisc Central	66	598	26	1179	95862	1.97
TWN022	Wisc North	63	683	31	1305	93445	1.91
WND081	Wisc Central	66	269	13	510	41049	1.90
CAT021	Wisc South	67	494	28	933	73473	1.89
LKC081	Wisc North	60	1266	75	2367	584695	1.87
FIN022	Wisc North	61	2000	88	3708	460331	1.85
DUR022	Wisc Central	66	1021	40	1888	201261	1.85
ELS031	Wisc Central	65	744	17	1370	95464	1.84
AYR021	Wisc North	63	831	10	1483	157595	1.78
BAY021	Wisc North	60	813	29	1419	260268	1.75
MAD072	Wisc Central	65	1446	28	2470	93641	1.71
GST021	Wisc North	60	410	13	679	25689	1.66
BYF021	Wisc North	62	2214	85	3590	603129	1.62
CHF023	Wisc Central	65	818	23	1283	172699	1.57
DRS211	Wisc North	61	109	6	170	30234	1.56
TRX021	Wisc Central	65	1046	40	1625	175578	1.55
ELM021	Wisc Central	66	224	31	339	25660	1.51
LON062	Wisc Central	65	483	6	713	64509	1.48
PRE021	Wisc North	60	1238	30	1819	205213	1.47
CHF022	Wisc Central	65	1672	42	2454	362368	1.47
ELM022	Wisc Central	66	596	23	866	99107	1.45
CMR021	Wisc North	61	1119	36	1535	73706	1.37
EGA022	Wisc Central	66	359	13	488	73835	1.36
OSC022	Wisc North	60	706	22	946	47959	1.34

SAIFI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
	Grand Total:		233246	6301	300259	48207074	1.29
MAD061	Wisc Central	65	312	7	416	15679	1.33
MAF072	Wisc South	68	664	16	882	61941	1.33
COU061	Wisc South	68	1570	22	2083	62093	1.33
BES021	Wisc North	63	1065	23	1400	238264	1.31
NAP022	Wisc Central	65	1437	20	1880	260034	1.31
HLA071	Wisc South	68	1223	15	1595	223694	1.30
CUM082	Wisc North	60	101	9	131	34642	1.30
POK061	Wisc North	61	791	18	1017	37476	1.29
BFT061	Wisc North	62	581	12	746	61705	1.28
ONA062	Wisc South	68	938	16	1190	233626	1.27
LAX062	Wisc South	68	1835	14	2322	78473	1.27
OPY081	Wisc North	61	615	39	775	215063	1.26
TWN021	Wisc North	63	697	25	876	47429	1.26
MAD062	Wisc Central	65	928	12	1154	53692	1.24
BEA415	Wisc North	60	386	11	477	76836	1.24
OTC022	Wisc Central	65	1592	26	1954	125643	1.23
SST061	Wisc North	62	537	16	653	41097	1.22
COC021	Wisc Central	66	409	6	496	14235	1.21
ELS033	Wisc Central	65	1491	12	1766	119351	1.18
BKD021	Wisc North	62	293	19	347	14821	1.18
OTC032	Wisc Central	65	1484	19	1742	100864	1.17
FEN073	Wisc South	68	957	17	1115	111272	1.17
SST062	Wisc North	62	586	15	678	46662	1.16
HWD022	Wisc North	61	677	18	773	84443	1.14
HWD021	Wisc North	61	556	25	624	68032	1.12
CHF033	Wisc Central	65	562	7	627	82509	1.12
WLR091	Wisc North	60	2552	23	2836	287931	1.11
GLM021	Wisc Central	64	480	26	532	151674	1.11
WIB569	Wisc Central	65	1302	61	1433	358264	1.10
STM021	Wisc Central	65	522	14	572	55314	1.10
STM022	Wisc Central	65	1000	14	1093	110127	1.09
MAF073	Wisc South	68	368	3	399	23117	1.08
ELK001	Wisc Central	65	421	24	456	100366	1.08
LOY022	Wisc Central	64	757	26	814	116287	1.08
MER021	Wisc South	67	763	11	819	19082	1.07
DUR021	Wisc Central	66	482	7	515	47330	1.07
NSI001	Wisc North	63	631	4	672	27204	1.06
NLV032	Wisc Central	64	545	11	579	116732	1.06
MLN001	Wisc North	62	595	9	631	117180	1.06
POK062	Wisc North	61	890	12	943	44469	1.06
ELS032	Wisc Central	65	1188	5	1258	77020	1.06
OSC031	Wisc North	60	62	2	65	1698	1.05
MLS021	Wisc South	67	520	8	544	22554	1.05
TST001	Wisc North	62	300	2	311	8220	1.04
WHR022	Wisc North	62	226	9	233	33994	1.03
FEN072	Wisc South	68	840	5	865	75172	1.03
RID082	Wisc North	61	742	43	763	234156	1.03

SAIFI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
	Grand Total:		233246	6301	300259	4820707	1.29
MAD071	Wisc Central	65	733	4	748	26003	1.02
IRB001	Wisc North	63	148	3	151	11476	1.02
AMY001	Wisc North	60	558	2	568	9600	1.02
MCO001	Wisc North	63	203	3	205	21476	1.01
AMC001	Wisc North	62	3	1	3	198	1.00
BLA022	Wisc South	67	17	1	17	442	1.00
CFO001	Wisc North	61	3	1	3	660	1.00
CPM022	Wisc South	67	5	1	5	310	1.00
GOG001	Wisc North	63	3	1	3	558	1.00
PMP001	Wisc North	61	6	1	6	246	1.00
SLA001	Wisc North	61	3	1	3	270	1.00
TLA001	Wisc North	63	1	1	1	122	1.00
UPS001	Wisc North	63	45	1	45	3375	1.00
BLD021	Wisc North	63	639	22	634	110096	0.99
NLV021	Wisc Central	64	987	9	978	190204	0.99
RSH091	Wisc North	60	958	46	929	96536	0.97
BEA414	Wisc North	60	850	56	815	182767	0.96
CEF081	Wisc Central	66	836	32	759	93492	0.91
CAB021	Wisc North	61	462	29	412	26550	0.89
WSM081	Wisc South	67	1287	45	1093	282437	0.85
CVA022	Wisc South	67	378	18	321	53429	0.85
NFO021	Wisc North	62	1062	47	895	86400	0.84
LON071	Wisc Central	65	495	14	398	65552	0.80
WLR082	Wisc North	60	4784	81	3828	552648	0.80
MEN032	Wisc Central	66	1767	30	1370	99857	0.78
GAL021	Wisc South	67	1269	25	965	99366	0.76
CLL081	Wisc North	60	504	29	372	115145	0.74
NFO031	Wisc North	62	1328	41	959	212581	0.72
CTS021	Wisc Central	64	730	10	513	49534	0.70
SWC061	Wisc South	68	355	3	247	124433	0.70
TRP022	Wisc Central	64	917	10	577	127806	0.63
CHF024	Wisc Central	65	1366	22	854	75920	0.63
JIM021	Wisc Central	65	359	13	224	96208	0.62
ELS027	Wisc Central	65	2114	33	1313	164427	0.62
RCD023	Wisc Central	66	906	27	562	43922	0.62
PHL031	Wisc North	62	1003	30	616	100037	0.61
MNR021	Wisc North	62	95	14	58	6610	0.61
HUR022	Wisc North	63	866	31	508	67197	0.59
WBN022	Wisc North	62	446	12	261	50103	0.59
WLR081	Wisc North	60	1737	29	1016	65059	0.58
FLC097	Wisc Central	65	623	16	363	57259	0.58
HAY081	Wisc Central	66	655	11	380	35241	0.58
SPA021	Wisc South	67	471	13	267	50453	0.57
RSK021	Wisc Central	66	683	41	382	47126	0.56
PRE022	Wisc North	60	721	25	401	36636	0.56
RSH092	Wisc North	60	327	12	175	20834	0.54
KIN081	Wisc North	60	551	27	290	56908	0.53

SAIFI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
	Grand Total:		233246	63013	300259	48207074	1.29
HAL063	Wisc Central	65	1486	25	779	106542	0.52
VIR061	Wisc South	67	1340	24	649	43981	0.48
BNT021	Wisc North	62	472	21	225	60827	0.48
MEN021	Wisc Central	66	900	32	426	63782	0.47
SHW021	Wisc Central	65	262	7	123	13454	0.47
WLR092	Wisc North	60	3783	61	1745	266292	0.46
MEN022	Wisc Central	66	1581	43	727	126810	0.46
GST023	Wisc North	60	578	18	262	15920	0.45
JEF221	Wisc Central	65	74	5	33	2844	0.45
MNT001	Wisc North	63	838	10	373	55675	0.45
CRN001	Wisc North	62	118	1	52	13728	0.44
CLL082	Wisc North	60	406	6	174	11367	0.43
STA082	Wisc Central	64	608	13	260	31620	0.43
ETK021	Wisc South	67	338	4	142	32173	0.42
WSM091	Wisc South	67	1991	40	786	66315	0.39
PTW001	Wisc North	62	312	12	123	25322	0.39
BLA023	Wisc South	67	556	10	209	50695	0.38
HAL062	Wisc Central	65	1637	34	604	77336	0.37
RKL021	Wisc South	67	743	28	260	38205	0.35
TRP021	Wisc Central	64	512	42	174	32939	0.34
PRS563	Wisc Central	65	3	1	1	18	0.33
YLR081	Wisc North	61	3	1	1	310	0.33
CAB022	Wisc North	61	381	11	123	11103	0.32
LYN021	Wisc Central	64	255	12	82	11575	0.32
WHR023	Wisc North	62	241	16	77	3471	0.32
NLV031	Wisc Central	64	589	25	178	29659	0.30
TUR021	Wisc North	60	299	6	90	25386	0.30
SPR021	Wisc Central	66	761	29	227	35679	0.30
CTA021	Wisc North	62	316	8	94	13901	0.30
LUK021	Wisc North	60	1028	32	285	25581	0.28
COU077	Wisc South	68	1795	19	493	109668	0.27
FIN021	Wisc North	61	659	12	177	29756	0.27
HAL073	Wisc Central	65	417	10	112	10607	0.27
DRS212	Wisc North	61	611	8	162	15072	0.27
COU071	Wisc South	68	1333	14	353	27910	0.26
TRX022	Wisc Central	65	748	13	193	18876	0.26
COU068	Wisc South	68	1876	24	478	52117	0.25
GDN021	Wisc North	62	420	2	104	43141	0.25
SPA032	Wisc South	67	1796	51	441	58404	0.25
HWK021	Wisc North	61	224	6	55	5593	0.25
YLR082	Wisc North	61	1089	25	249	36974	0.23
ELL021	Wisc North	60	1044	21	232	24514	0.22
TRX032	Wisc Central	65	1859	24	391	28562	0.21
WHH023	Wisc South	67	752	15	156	24978	0.21
BFT062	Wisc North	62	640	6	129	8449	0.20
RCD022	Wisc Central	66	105	5	21	1892	0.20
COU062	Wisc South	68	1377	12	273	20012	0.20

SAIFI 2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
	Grand Total:		233246	6301	800259	4820707	1.29
EGP212	Wisc Central	65	81	12	16	3654	0.20
FEN061	Wisc South	68	1183	26	233	15601	0.20
MAF061	Wisc South	68	745	13	146	18319	0.20
RSH081	Wisc North	60	2268	33	433	47878	0.19
TRX033	Wisc Central	65	381	4	72	29407	0.19
LON061	Wisc Central	65	1328	13	246	33811	0.19
ONA061	Wisc South	68	2286	19	420	35274	0.18
GVA021	Wisc South	67	323	13	58	3908	0.18
LON072	Wisc Central	65	738	9	132	21525	0.18
IRW005	Wisc North	63	315	8	56	3813	0.18
ELS024	Wisc Central	65	94	2	16	7865	0.17
LOY021	Wisc Central	64	966	25	164	23630	0.17
LAX075	Wisc South	68	1615	14	274	17517	0.17
WHH022	Wisc South	67	562	19	92	18098	0.16
LON063	Wisc Central	65	216	7	35	1792	0.16
BAV001	Wisc North	62	722	14	115	16174	0.16
LYN022	Wisc Central	64	419	12	66	8007	0.16
GEN197	Wisc South	68	744	16	116	11825	0.16
STA083	Wisc Central	64	803	20	124	13928	0.15
FEN062	Wisc South	68	482	7	74	16243	0.15
HUR021	Wisc North	63	386	9	58	12308	0.15
SWC072	Wisc South	68	1184	8	175	9152	0.15
HAL072	Wisc Central	65	1144	22	162	7988	0.14
CVA021	Wisc South	67	671	18	95	11572	0.14
STA081	Wisc Central	64	199	3	27	2350	0.14
PHL021	Wisc North	62	743	22	100	8979	0.13
BES022	Wisc North	63	1084	11	145	7916	0.13
ALC021	Wisc South	67	395	19	52	6946	0.13
MAF063	Wisc South	68	1543	12	203	9404	0.13
AUG021	Wisc Central	65	330	13	43	5804	0.13
SPA022	Wisc South	67	1454	16	184	18046	0.13
DRM021	Wisc North	61	167	3	21	970	0.13
VIR003	Wisc South	67	905	7	113	24955	0.12
IRW001	Wisc North	63	344	2	40	4958	0.12
COU069	Wisc South	68	471	6	51	2555	0.11
TAD021	Wisc North	61	345	14	36	2254	0.10
TRX031	Wisc Central	65	77	3	8	1612	0.10
SPE021	Wisc Central	64	1026	21	105	40235	0.10
TUR022	Wisc North	60	325	5	32	3731	0.10
NAP021	Wisc Central	65	520	18	49	6749	0.09
ALC022	Wisc South	67	224	3	19	2567	0.08
BYD001	Wisc Central	64	318	14	26	4373	0.08
ELS021	Wisc Central	65	421	5	32	7366	0.08
LAX074	Wisc South	68	638	6	47	1560	0.07
CHF021	Wisc Central	65	667	8	48	3684	0.07
LAX077	Wisc South	68	268	3	19	647	0.07
HLA062	Wisc South	68	1439	9	92	12258	0.06

SAIFI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
	Grand Total:		233246	6301	300259	4820707	29
MAF062	Wisc South	68	51	2	3	114	0.06
SWC071	Wisc South	68	257	1	15	690	0.06
CHF031	Wisc Central	65	432	4	23	740	0.05
SVN001	Wisc North	62	293	2	15	5187	0.05
WSM092	Wisc South	67	1098	9	52	2710	0.05
JEF211	Wisc Central	65	106	5	5	419	0.05
BLA021	Wisc South	67	683	18	30	2742	0.04
ELS022	Wisc Central	65	473	3	20	940	0.04
OLU021	Wisc North	62	95	4	4	589	0.04
AUG022	Wisc Central	65	691	6	29	2559	0.04
SPA031	Wisc South	67	1547	11	64	6395	0.04
LAX063	Wisc South	68	1481	9	60	6553	0.04
MEN031	Wisc Central	66	25	1	1	51	0.04
OPK010	Wisc North	60	348	7	12	1996	0.03
LAX076	Wisc South	68	1153	9	39	2909	0.03
RCD024	Wisc Central	66	123	2	4	1404	0.03
LAX067	Wisc South	68	789	5	22	4107	0.03
WBN021	Wisc North	62	836	12	21	1637	0.03
IRW003	Wisc North	63	525	3	13	1011	0.02
HYD211	Wisc Central	65	42	1	1	576	0.02
IRW002	Wisc North	63	566	4	13	1149	0.02
NRA001	Wisc North	63	470	3	9	729	0.02
HYD031	Wisc Central	65	55	1	1	69	0.02
ELL022	Wisc North	60	319	5	5	802	0.02
HER001	Wisc North	62	142	2	2	340	0.01
HYD212	Wisc Central	65	71	1	1	324	0.01
RVW021	Wisc Central	65	82	1	1	86	0.01
GRV021	Wisc North	62	105	1	1	60	0.01
HAF001	Wisc South	67	110	1	1	27	0.01
MNR022	Wisc North	62	110	1	1	38	0.01
VIR002	Wisc South	67	499	2	2	143	0.00
VAV001	Wisc North	62	284	1	1	36	0.00
MEN023	Wisc Central	66	338	1	1	24	0.00
LAX065	Wisc South	68	941	2	2	78	0.00
SOE001	Wisc North	62	511	1	1	61	0.00
TRX023	Wisc Central	65	644	1	1	140	0.00
ALN001	Wisc North	63	9	0	0	0	0.00
AMC002	Wisc North	62	3	0	0	0	0.00
BGR020	Wisc South	67	0	0	0	0	0.00
BLR020	Wisc Central	65	0	0	0	0	0.00
BMU021	Wisc North	61	0	0	0	0	0.00
BRA001	Wisc North	63	1	0	0	0	0.00
CAD001	Wisc Central	65	0	0	0	0	0.00
CHF032	Wisc Central	65	0	0	0	0	0.00
CHF034	Wisc Central	65	209	0	0	0	0.00
CNR001	Wisc North	63	3	0	0	0	0.00
CON021	Wisc North	61	0	41	1597	212939	0.00

SAIFI 2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
	Grand Total:		233246	6301	300259	18207074	29
COR197	Wisc Central	65	0	0	0	0	0.00
COR198	Wisc Central	65	3	0	0	0	0.00
CPM021	Wisc South	67	0	0	0	0	0.00
ELS023	Wisc Central	65	15	0	0	0	0.00
FAY001	Wisc North	62	256	0	0	0	0.00
FEN063	Wisc South	68	597	0	0	0	0.00
FEN071	Wisc South	68	0	0	0	0	0.00
FLB010	Wisc North	62	3	0	0	0	0.00
GAS62I	Wisc North	62	0	0	0	0	0.00
GAS62S	Wisc North	62	4	0	0	0	0.00
GAS63E	Wisc North	63	135	0	0	0	0.00
GAS63W	Wisc North	63	404	0	0	0	0.00
GAS651	Wisc Central	65	2	0	0	0	0.00
GAS681	Wisc South	68	23	0	0	0	0.00
GAS68A	Wisc South	68	2	0	0	0	0.00
GAS68B	Wisc South	68	0	0	0	0	0.00
GAS68C	Wisc South	68	0	0	0	0	0.00
HGN021	Wisc North	63	6	0	0	0	0.00
HLA063	Wisc South	68	0	0	0	0	0.00
HWY021	Wisc North	62	3	0	0	0	0.00
INO001	Wisc North	62	0	0	0	0	0.00
IRP001	Wisc North	63	3	0	0	0	0.00
IRP002	Wisc North	63	0	0	0	0	0.00
IRW004	Wisc North	63	0	0	0	0	0.00
JKS021	Wisc North	63	4	0	0	0	0.00
LAX000	Wisc South	68	36	0	0	0	0.00
LDP001	Wisc North	61	0	0	0	0	0.00
LKH010	Wisc Central	64	3	0	0	0	0.00
LKH020	Wisc Central	64	3	0	0	0	0.00
LPA001	Wisc North	62	3	0	0	0	0.00
LUP001	Wisc North	63	3	0	0	0	0.00
MEY021	Wisc North	63	3	0	0	0	0.00
MFN021	Wisc Central	64	0	0	0	0	0.00
MFS021	Wisc Central	64	0	0	0	0	0.00
MFW021	Wisc Central	64	0	0	0	0	0.00
MID001	Wisc North	63	3	0	0	0	0.00
MLS022	Wisc South	67	0	0	0	0	0.00
MSE021	Wisc North	62	29	0	0	0	0.00
OJB021	Wisc North	63	5	0	0	0	0.00
OPK011	Wisc North	60	9	0	0	0	0.00
OSC032	Wisc North	60	0	0	0	0	0.00
PHL032	Wisc North	62	3	0	0	0	0.00
PRS565	Wisc Central	65	3	0	0	0	0.00
RCD031	Wisc Central	66	3	0	0	0	0.00
RCD032	Wisc Central	66	6	0	0	0	0.00
RCD033	Wisc Central	66	3	0	0	0	0.00
RCL029	Wisc North	61	0	0	0	0	0.00

SAIFI 2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIFI
	Grand Total:		233246	6301	300259	48207074	1.29
RCL039	Wisc North	61	0	0	0	0	0.00
RIC082	Wisc North	60	4	0	0	0	0.00
SAX001	Wisc North	63	3	0	0	0	0.00
SLD021	Wisc North	61	0	15	520	81283	0.00
SPA033	Wisc South	67	0	0	0	0	0.00
SPN001	Wisc North	61	0	0	0	0	0.00
STE471	Wisc Central	65	3	0	0	0	0.00
STE472	Wisc Central	65	3	0	0	0	0.00
SUM211	Wisc Central	65	0	0	0	0	0.00
SUM212	Wisc Central	65	0	0	0	0	0.00
SWC062	Wisc South	68	12	0	0	0	0.00
THA001	Wisc North	61	0	0	0	0	0.00
TMU001	Wisc South	67	0	0	0	0	0.00
TRE021	Wisc South	67	18	0	0	0	0.00
USR533	Wisc Central	65	6	0	0	0	0.00
USR534	Wisc Central	65	9	0	0	0	0.00
WAF001	Wisc North	63	3	0	0	0	0.00
WBI021	Wisc North	62	3	0	0	0	0.00
WBY171	Wisc South	67	0	0	0	0	0.00
WDB001	Wisc North	63	7	0	0	0	0.00
WTH001	Wisc North	61	0	0	0	0	0.00
			233246	6301	300259	48207074	1.29

TAB 1.2

SAIDI : Feeder Level Including All Weather Conditions

SAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
	Grand Total:		233246	6301	800259	48207074	1206.68
SQN001	Wisc North	62	6	16	96	33540	5590.00
RTL021	Wisc North	63	1048	91	7351	2281536	2177.04
RTL022	Wisc North	63	926	78	5308	1874678	2024.49
PSI021	Wisc North	63	1275	126	11262	1921800	1507.29
CAD061	Wisc Central	65	54	6	107	76967	1425.31
MRC022	Wisc North	63	1537	100	8657	2048940	1333.08
WDM081	Wisc North	61	758	51	4652	1006938	1328.41
WTL061	Wisc North	61	1288	38	3294	1599502	1241.85
TRL082	Wisc North	61	363	29	2039	424189	1168.56
TRL081	Wisc North	61	822	39	4924	916018	1114.38
OWN021	Wisc Central	64	1246	48	2811	1281430	1028.43
TCN091	Wisc Central	64	949	54	3438	962355	1014.07
WTL062	Wisc North	61	1116	50	3120	1094604	980.83
TCN092	Wisc Central	64	2087	40	5949	2008474	962.37
BIR021	Wisc North	61	951	53	3108	895842	942.00
TCN081	Wisc Central	64	2068	55	4548	1856605	897.78
SUP021	Wisc North	63	152	14	929	124239	817.36
CPM023	Wisc South	67	6	8	18	4553	758.83
SND021	Wisc North	61	2555	166	14717	1907123	746.43
BIR022	Wisc North	61	578	25	1418	423798	733.21
CSH021	Wisc South	67	121	12	392	77526	640.71
TWT081	Wisc North	60	1158	71	5431	735816	635.42
RIC081	Wisc North	60	2102	117	4839	1324969	630.34
CSH022	Wisc South	67	434	24	1217	260822	600.97
IHD021	Wisc North	63	326	19	1220	189628	581.68
PEP021	Wisc Central	66	893	55	4554	503446	563.77
HAY082	Wisc Central	66	1713	28	6575	948241	553.56
CPM035	Wisc South	67	108	5	244	58846	544.87
CPM025	Wisc South	67	225	4	451	120642	536.19
CPM026	Wisc South	67	401	4	817	214869	535.83
CPM033	Wisc South	67	393	7	794	210192	534.84
CPM024	Wisc South	67	399	5	801	213118	534.13
CPM032	Wisc South	67	618	3	1237	329642	533.40
CPM034	Wisc South	67	52	2	104	27716	533.00
EGP211	Wisc Central	65	1232	89	3488	573729	465.69
LKC081	Wisc North	60	1266	75	2367	584695	461.84
RCL031	Wisc North	61	1381	76	7361	626818	453.89
RID081	Wisc North	61	539	38	1508	232716	431.76
GMT021	Wisc North	60	198	9	395	77941	393.64
MCO021	Wisc North	63	397	20	1163	154166	388.33
GLA021	Wisc North	63	75	5	164	28872	384.96
AYR022	Wisc North	63	893	36	1982	339996	380.73
WHR021	Wisc North	62	150	9	419	55933	372.89
PRN021	Wisc North	62	776	36	2311	284972	367.23
EGA021	Wisc Central	66	117	11	303	42881	366.50
SWC061	Wisc South	68	355	3	247	124433	350.52
OPY081	Wisc North	61	615	39	775	215063	349.70

SAIDI 2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
	Grand Total:		233246	6301	300259	48207074	206.68
RBL022	Wisc North	62	176	20	610	61105	347.19
MDR021	Wisc Central	66	147	21	362	50524	343.70
CUM082	Wisc North	60	101	9	131	34642	342.99
GEN198	Wisc South	68	274	6	595	92000	335.77
BAY021	Wisc North	60	813	29	1419	260268	320.13
GLM021	Wisc Central	64	480	26	532	151674	315.99
RID082	Wisc North	61	742	43	763	234156	315.57
SXF021	Wisc North	63	204	13	609	62808	307.88
RBL023	Wisc North	62	660	32	2109	201976	306.02
RBL021	Wisc North	62	138	19	406	39353	285.17
DRS211	Wisc North	61	109	6	170	30234	277.38
WIB569	Wisc Central	65	1302	61	1433	358264	275.16
BYF021	Wisc North	62	2214	85	3590	603129	272.42
MRC021	Wisc North	63	114	12	292	30815	270.31
JIM021	Wisc Central	65	359	13	224	96208	267.99
NEL021	Wisc Central	66	247	7	997	64864	262.61
OTC021	Wisc Central	65	553	14	1730	140641	254.32
ONA062	Wisc South	68	938	16	1190	233626	249.07
ELK001	Wisc Central	65	421	24	456	100366	238.40
COU078	Wisc South	68	1212	17	5001	288416	237.97
HYD032	Wisc Central	65	2687	96	6354	625288	232.71
SCF024	Wisc North	60	224	18	504	51667	230.66
FIN022	Wisc North	61	2000	88	3708	460331	230.17
CLL081	Wisc North	60	504	29	372	115145	228.46
BES021	Wisc North	63	1065	23	1400	238264	223.72
ELS034	Wisc Central	65	311	13	985	69567	223.69
CFO001	Wisc North	61	3	1	3	660	220.00
WSM081	Wisc South	67	1287	45	1093	282437	219.45
CHF022	Wisc Central	65	1672	42	2454	362368	216.73
BEA414	Wisc North	60	850	56	815	182767	215.02
NLV032	Wisc Central	64	545	11	579	116732	214.19
CHF023	Wisc Central	65	818	23	1283	172699	211.12
EGA022	Wisc Central	66	359	13	488	73835	205.67
BEA415	Wisc North	60	386	11	477	76836	199.06
DUR022	Wisc Central	66	1021	40	1888	201261	197.12
MLN001	Wisc North	62	595	9	631	117180	196.94
NLV021	Wisc Central	64	987	9	978	190204	192.71
OTC031	Wisc Central	65	1757	40	4025	338455	192.63
AYR021	Wisc North	63	831	10	1483	157595	189.65
GOG001	Wisc North	63	3	1	3	558	186.00
HLA071	Wisc South	68	1223	15	1595	223694	182.91
NAP022	Wisc Central	65	1437	20	1880	260034	180.96
ALM559	Wisc Central	66	507	13	1258	91715	180.90
ARK081	Wisc Central	66	85	12	168	15194	178.75
BLD021	Wisc North	63	639	22	634	110096	172.29
TRX021	Wisc Central	65	1046	40	1625	175578	167.86
ELM022	Wisc Central	66	596	23	866	99107	166.29

SAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
		Grand Total:	233246	6301	300259	48207074	206.68
PRE021	Wisc North	60	1238	30	1819	205213	165.76
ARK082	Wisc Central	66	598	26	1179	95862	160.30
NFO031	Wisc North	62	1328	41	959	212581	160.08
OGE021	Wisc North	62	172	14	428	27428	159.47
CUM081	Wisc North	60	229	12	471	36413	159.01
LOY022	Wisc Central	64	757	26	814	116287	153.62
WND081	Wisc Central	66	269	13	510	41049	152.60
WHR022	Wisc North	62	226	9	233	33994	150.42
CAT021	Wisc South	67	494	28	933	73473	148.73
EWA001	Wisc North	61	3	2	6	444	148.00
CHF033	Wisc Central	65	562	7	627	82509	146.81
CVA022	Wisc South	67	378	18	321	53429	141.35
TRP022	Wisc Central	64	917	10	577	127806	139.37
SCF025	Wisc North	60	992	22	2604	136301	137.40
TWN022	Wisc North	63	683	31	1305	93445	136.82
LON062	Wisc Central	65	483	6	713	64509	133.56
LON071	Wisc Central	65	495	14	398	65552	132.43
BNT021	Wisc North	62	472	21	225	60827	128.87
MAF071	Wisc South	68	1064	18	2462	136820	128.59
ELS031	Wisc Central	65	744	17	1370	95464	128.31
ALM560	Wisc Central	66	15	2	30	1890	126.00
OSC021	Wisc North	60	1243	34	2995	156380	125.81
HWD022	Wisc North	61	677	18	773	84443	124.73
HWD021	Wisc North	61	556	25	624	68032	122.36
TLA001	Wisc North	63	1	1	1	122	122.00
CRN001	Wisc North	62	118	1	52	13728	116.34
FEN073	Wisc South	68	957	17	1115	111272	116.27
WLR082	Wisc North	60	4784	81	3828	552648	115.52
ELM021	Wisc Central	66	224	31	339	25660	114.55
WLR091	Wisc North	60	2552	23	2836	287931	112.83
WBN022	Wisc North	62	446	12	261	50103	112.34
CEF081	Wisc Central	66	836	32	759	93492	111.83
STM022	Wisc Central	65	1000	14	1093	110127	110.13
SPA021	Wisc South	67	471	13	267	50453	107.12
BFT061	Wisc North	62	581	12	746	61705	106.20
STM021	Wisc Central	65	522	14	572	55314	105.97
MCO001	Wisc North	63	203	3	205	21476	105.79
YLR081	Wisc North	61	3	1	1	310	103.33
KIN081	Wisc North	60	551	27	290	56908	103.28
GDN021	Wisc North	62	420	2	104	43141	102.72
RSH091	Wisc North	60	958	46	929	96536	100.77
PHL031	Wisc North	62	1003	30	616	100037	99.74
DUR021	Wisc Central	66	482	7	515	47330	98.20
ETK021	Wisc South	67	338	4	142	32173	95.19
MAF072	Wisc South	68	664	16	882	61941	93.28
FLC097	Wisc Central	65	623	16	363	57259	91.91
BLA023	Wisc South	67	556	10	209	50695	91.18

SAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
	Grand Total:		233246	6301	300259	48207074	206.68
SLA001	Wisc North	61	3	1	3	270	90.00
FEN072	Wisc South	68	840	5	865	75172	89.49
TUR021	Wisc North	60	299	6	90	25386	84.90
ELS024	Wisc Central	65	94	2	16	7865	83.67
NFO021	Wisc North	62	1062	47	895	86400	81.36
PTW001	Wisc North	62	312	12	123	25322	81.16
MEN022	Wisc Central	66	1581	43	727	126810	80.21
ELS033	Wisc Central	65	1491	12	1766	119351	80.05
SST062	Wisc North	62	586	15	678	46662	79.63
OTC022	Wisc Central	65	1592	26	1954	125643	78.92
GAL021	Wisc South	67	1269	25	965	99366	78.30
ELS027	Wisc Central	65	2114	33	1313	164427	77.78
HUR022	Wisc North	63	866	31	508	67197	77.59
IRB001	Wisc North	63	148	3	151	11476	77.54
TRX033	Wisc Central	65	381	4	72	29407	77.18
SST061	Wisc North	62	537	16	653	41097	76.53
UPS001	Wisc North	63	45	1	45	3375	75.00
HAL063	Wisc Central	65	1486	25	779	106542	71.70
MEN021	Wisc Central	66	900	32	426	63782	70.87
WLR092	Wisc North	60	3783	61	1745	266292	70.39
OTC023	Wisc Central	65	1376	9	2916	96773	70.33
MNR021	Wisc North	62	95	14	58	6610	69.58
RSK021	Wisc Central	66	683	41	382	47126	69.00
TWN021	Wisc North	63	697	25	876	47429	68.05
OTC032	Wisc Central	65	1484	19	1742	100864	67.97
OSC022	Wisc North	60	706	22	946	47959	67.93
CTS021	Wisc Central	64	730	10	513	49534	67.85
MNT001	Wisc North	63	838	10	373	55675	66.44
AMC001	Wisc North	62	3	1	3	198	66.00
CMR021	Wisc North	61	1119	36	1535	73706	65.87
ELS032	Wisc Central	65	1188	5	1258	77020	64.83
MAD072	Wisc Central	65	1446	28	2470	93641	64.76
TRP021	Wisc Central	64	512	42	174	32939	64.33
RSH092	Wisc North	60	327	12	175	20834	63.71
MAF073	Wisc South	68	368	3	399	23117	62.82
GST021	Wisc North	60	410	13	679	25689	62.66
CPM022	Wisc South	67	5	1	5	310	62.00
RCL021	Wisc North	61	51	4	111	3139	61.55
COU077	Wisc South	68	1795	19	493	109668	61.10
MAD062	Wisc Central	65	928	12	1154	53692	57.86
CAB021	Wisc North	61	462	29	412	26550	57.47
MEN032	Wisc Central	66	1767	30	1370	99857	56.51
CHF024	Wisc Central	65	1366	22	854	75920	55.58
HAY081	Wisc Central	66	655	11	380	35241	53.80
STA082	Wisc Central	64	608	13	260	31620	52.01
RKL021	Wisc South	67	743	28	260	38205	51.42
SHW021	Wisc Central	65	262	7	123	13454	51.35

SAIDI 2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
	Grand Total:		233246	6301	300259	14820707	206.58
PRE022	Wisc North	60	721	25	401	36636	50.81
BKD021	Wisc North	62	293	19	347	14821	50.58
NLV031	Wisc Central	64	589	25	178	29659	50.35
MAD061	Wisc Central	65	312	7	416	15679	50.25
POK062	Wisc North	61	890	12	943	44469	49.97
RCD023	Wisc Central	66	906	27	562	43922	48.48
POK061	Wisc North	61	791	18	1017	37476	47.38
HAL062	Wisc Central	65	1637	34	604	77336	47.24
SPR021	Wisc Central	66	761	29	227	35679	46.88
LYN021	Wisc Central	64	255	12	82	11575	45.39
FIN021	Wisc North	61	659	12	177	29756	45.15
EGP212	Wisc Central	65	81	12	16	3654	45.11
CTA021	Wisc North	62	316	8	94	13901	43.99
MLS021	Wisc South	67	520	8	544	22554	43.37
NSI001	Wisc North	63	631	4	672	27204	43.11
LAX062	Wisc South	68	1835	14	2322	78473	42.76
PMP001	Wisc North	61	6	1	6	246	41.00
COU061	Wisc South	68	1570	22	2083	62093	39.55
SPE021	Wisc Central	64	1026	21	105	40235	39.22
JEF221	Wisc Central	65	74	5	33	2844	38.43
WLR081	Wisc North	60	1737	29	1016	65059	37.45
MAD071	Wisc Central	65	733	4	748	26003	35.47
COC021	Wisc Central	66	409	6	496	14235	34.80
COU079	Wisc South	68	547	14	1265	18824	34.41
YLR082	Wisc North	61	1089	25	249	36974	33.95
FEN062	Wisc South	68	482	7	74	16243	33.70
WSM091	Wisc South	67	1991	40	786	66315	33.31
WHH023	Wisc South	67	752	15	156	24978	33.22
VIR061	Wisc South	67	1340	24	649	43981	32.82
SPA032	Wisc South	67	1796	51	441	58404	32.52
WHH022	Wisc South	67	562	19	92	18098	32.20
HUR021	Wisc North	63	386	9	58	12308	31.89
LON072	Wisc Central	65	738	9	132	21525	29.17
CAB022	Wisc North	61	381	11	123	11103	29.14
CLL082	Wisc North	60	406	6	174	11367	28.00
COU068	Wisc South	68	1876	24	478	52117	27.78
VIR003	Wisc South	67	905	7	113	24955	27.57
GST023	Wisc North	60	578	18	262	15920	27.54
TST001	Wisc North	62	300	2	311	8220	27.40
OSC031	Wisc North	60	62	2	65	1698	27.39
BLA022	Wisc South	67	17	1	17	442	26.00
LON061	Wisc Central	65	1328	13	246	33811	25.46
HAL073	Wisc Central	65	417	10	112	10607	25.44
TRX022	Wisc Central	65	748	13	193	18876	25.24
MER021	Wisc South	67	763	11	819	19082	25.01
HWK021	Wisc North	61	224	6	55	5593	24.97
LUK021	Wisc North	60	1028	32	285	25581	24.88

SAIDI 2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
	Grand Total:		233246	6301	300259	4820704	20.68
DRS212	Wisc North	61	611	8	162	15072	24.67
MAF061	Wisc South	68	745	13	146	18319	24.59
LOY021	Wisc Central	64	966	25	164	23630	24.46
ELL021	Wisc North	60	1044	21	232	24514	23.48
BAV001	Wisc North	62	722	14	115	16174	22.40
RSH081	Wisc North	60	2268	33	433	47878	21.11
COU071	Wisc South	68	1333	14	353	27910	20.94
TRX031	Wisc Central	65	77	3	8	1612	20.94
LYN022	Wisc Central	64	419	12	66	8007	19.11
RCD022	Wisc Central	66	105	5	21	1892	18.02
SVN001	Wisc North	62	293	2	15	5187	17.70
AUG021	Wisc Central	65	330	13	43	5804	17.59
ALC021	Wisc South	67	395	19	52	6946	17.58
ELS021	Wisc Central	65	421	5	32	7366	17.50
STA083	Wisc Central	64	803	20	124	13928	17.34
CVA021	Wisc South	67	671	18	95	11572	17.25
AMY001	Wisc North	60	558	2	568	9600	17.20
GEN197	Wisc South	68	744	16	116	11825	15.89
ONA061	Wisc South	68	2286	19	420	35274	15.43
TRX032	Wisc Central	65	1859	24	391	28562	15.36
COU062	Wisc South	68	1377	12	273	20012	14.53
IRW001	Wisc North	63	344	2	40	4958	14.41
WHR023	Wisc North	62	241	16	77	3471	14.40
BYD001	Wisc Central	64	318	14	26	4373	13.75
HYD211	Wisc Central	65	42	1	1	576	13.71
BFT062	Wisc North	62	640	6	129	8449	13.20
FEN061	Wisc South	68	1183	26	233	15601	13.19
NAP021	Wisc Central	65	520	18	49	6749	12.98
SPA022	Wisc South	67	1454	16	184	18046	12.41
IRW005	Wisc North	63	315	8	56	3813	12.10
GVA021	Wisc South	67	323	13	58	3908	12.10
PHL021	Wisc North	62	743	22	100	8979	12.08
STA081	Wisc Central	64	199	3	27	2350	11.81
TUR022	Wisc North	60	325	5	32	3731	11.48
ALC022	Wisc South	67	224	3	19	2567	11.46
RCD024	Wisc Central	66	123	2	4	1404	11.41
LAX075	Wisc South	68	1615	14	274	17517	10.85
HLA062	Wisc South	68	1439	9	92	12258	8.52
LON063	Wisc Central	65	216	7	35	1792	8.30
SWC072	Wisc South	68	1184	8	175	9152	7.73
BES022	Wisc North	63	1084	11	145	7916	7.30
HAL072	Wisc Central	65	1144	22	162	7988	6.98
TAD021	Wisc North	61	345	14	36	2254	6.53
OLU021	Wisc North	62	95	4	4	589	6.20
MAF063	Wisc South	68	1543	12	203	9404	6.09
PRS563	Wisc Central	65	3	1	1	18	6.00
DRM021	Wisc North	61	167	3	21	970	5.81

SAIDI 2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
	Grand Total:		233246	6301	300259	4820704	206.68
OPK010	Wisc North	60	348	7	12	1996	5.74
CHF021	Wisc Central	65	667	8	48	3684	5.52
COU069	Wisc South	68	471	6	51	2555	5.42
LAX067	Wisc South	68	789	5	22	4107	5.21
HYD212	Wisc Central	65	71	1	1	324	4.56
LAX063	Wisc South	68	1481	9	60	6553	4.42
SPA031	Wisc South	67	1547	11	64	6395	4.13
BLA021	Wisc South	67	683	18	30	2742	4.01
JEF211	Wisc Central	65	106	5	5	419	3.95
AUG022	Wisc Central	65	691	6	29	2559	3.70
SWC071	Wisc South	68	257	1	15	690	2.68
LAX076	Wisc South	68	1153	9	39	2909	2.52
ELL022	Wisc North	60	319	5	5	802	2.51
WSM092	Wisc South	67	1098	9	52	2710	2.47
LAX074	Wisc South	68	638	6	47	1560	2.45
LAX077	Wisc South	68	268	3	19	647	2.41
HER001	Wisc North	62	142	2	2	340	2.39
MAF062	Wisc South	68	51	2	3	114	2.24
MEN031	Wisc Central	66	25	1	1	51	2.04
IRW002	Wisc North	63	566	4	13	1149	2.03
ELS022	Wisc Central	65	473	3	20	940	1.99
WBN021	Wisc North	62	836	12	21	1637	1.96
IRW003	Wisc North	63	525	3	13	1011	1.93
CHF031	Wisc Central	65	432	4	23	740	1.71
NRA001	Wisc North	63	470	3	9	729	1.55
HYD031	Wisc Central	65	55	1	1	69	1.25
RVW021	Wisc Central	65	82	1	1	86	1.05
GRV021	Wisc North	62	105	1	1	60	0.57
MNR022	Wisc North	62	110	1	1	38	0.35
VIR002	Wisc South	67	499	2	2	143	0.29
HAF001	Wisc South	67	110	1	1	27	0.25
TRX023	Wisc Central	65	644	1	1	140	0.22
VAV001	Wisc North	62	284	1	1	36	0.13
SOE001	Wisc North	62	511	1	1	61	0.12
LAX065	Wisc South	68	941	2	2	78	0.08
MEN023	Wisc Central	66	338	1	1	24	0.07
ALN001	Wisc North	63	9	0	0	0	0.00
AMC002	Wisc North	62	3	0	0	0	0.00
BGR020	Wisc South	67	0	0	0	0	0.00
BLR020	Wisc Central	65	0	0	0	0	0.00
BMU021	Wisc North	61	0	0	0	0	0.00
BRA001	Wisc North	63	1	0	0	0	0.00
CAD001	Wisc Central	65	0	0	0	0	0.00
CHF032	Wisc Central	65	0	0	0	0	0.00
CHF034	Wisc Central	65	209	0	0	0	0.00
CNR001	Wisc North	63	3	0	0	0	0.00
CON021	Wisc North	61	0	41	1597	212939	0.00

SAIDI 2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
	Grand Total:		283246	6301	800259	4820704	206.68
COR197	Wisc Central	65	0	0	0	0	0.00
COR198	Wisc Central	65	3	0	0	0	0.00
CPM021	Wisc South	67	0	0	0	0	0.00
ELS023	Wisc Central	65	15	0	0	0	0.00
FAY001	Wisc North	62	256	0	0	0	0.00
FEN063	Wisc South	68	597	0	0	0	0.00
FEN071	Wisc South	68	0	0	0	0	0.00
FLB010	Wisc North	62	3	0	0	0	0.00
GAS62I	Wisc North	62	0	0	0	0	0.00
GAS62S	Wisc North	62	4	0	0	0	0.00
GAS63E	Wisc North	63	135	0	0	0	0.00
GAS63W	Wisc North	63	404	0	0	0	0.00
GAS651	Wisc Central	65	2	0	0	0	0.00
GAS681	Wisc South	68	23	0	0	0	0.00
GAS68A	Wisc South	68	2	0	0	0	0.00
GAS68B	Wisc South	68	0	0	0	0	0.00
GAS68C	Wisc South	68	0	0	0	0	0.00
HGN021	Wisc North	63	6	0	0	0	0.00
HLA063	Wisc South	68	0	0	0	0	0.00
HWY021	Wisc North	62	3	0	0	0	0.00
INO001	Wisc North	62	0	0	0	0	0.00
IRP001	Wisc North	63	3	0	0	0	0.00
IRP002	Wisc North	63	0	0	0	0	0.00
IRW004	Wisc North	63	0	0	0	0	0.00
JKS021	Wisc North	63	4	0	0	0	0.00
LAX000	Wisc South	68	36	0	0	0	0.00
LDP001	Wisc North	61	0	0	0	0	0.00
LKH010	Wisc Central	64	3	0	0	0	0.00
LKH020	Wisc Central	64	3	0	0	0	0.00
LPA001	Wisc North	62	3	0	0	0	0.00
LUP001	Wisc North	63	3	0	0	0	0.00
MEY021	Wisc North	63	3	0	0	0	0.00
MFN021	Wisc Central	64	0	0	0	0	0.00
MFS021	Wisc Central	64	0	0	0	0	0.00
MFW021	Wisc Central	64	0	0	0	0	0.00
MID001	Wisc North	63	3	0	0	0	0.00
MLS022	Wisc South	67	0	0	0	0	0.00
MSE021	Wisc North	62	29	0	0	0	0.00
OJB021	Wisc North	63	5	0	0	0	0.00
OPK011	Wisc North	60	9	0	0	0	0.00
OSC032	Wisc North	60	0	0	0	0	0.00
PHL032	Wisc North	62	3	0	0	0	0.00
PRS565	Wisc Central	65	3	0	0	0	0.00
RCD031	Wisc Central	66	3	0	0	0	0.00
RCD032	Wisc Central	66	6	0	0	0	0.00
RCD033	Wisc Central	66	3	0	0	0	0.00
RCL029	Wisc North	61	0	0	0	0	0.00

SAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI
		Grand Total:	233246	6301	300259	48207074	206.68
RCL039	Wisc North	61	0	0	0	0	0.00
RIC082	Wisc North	60	4	0	0	0	0.00
SAX001	Wisc North	63	3	0	0	0	0.00
SLD021	Wisc North	61	0	15	520	81283	0.00
SPA033	Wisc South	67	0	0	0	0	0.00
SPN001	Wisc North	61	0	0	0	0	0.00
STE471	Wisc Central	65	3	0	0	0	0.00
STE472	Wisc Central	65	3	0	0	0	0.00
SUM211	Wisc Central	65	0	0	0	0	0.00
SUM212	Wisc Central	65	0	0	0	0	0.00
SWC062	Wisc South	68	12	0	0	0	0.00
THA001	Wisc North	61	0	0	0	0	0.00
TMU001	Wisc South	67	0	0	0	0	0.00
TRE021	Wisc South	67	18	0	0	0	0.00
USR533	Wisc Central	65	6	0	0	0	0.00
USR534	Wisc Central	65	9	0	0	0	0.00
WAF001	Wisc North	63	3	0	0	0	0.00
WBI021	Wisc North	62	3	0	0	0	0.00
WBY171	Wisc South	67	0	0	0	0	0.00
WDB001	Wisc North	63	7	0	0	0	0.00
WTH001	Wisc North	61	0	0	0	0	0.00
			233246	6301	300259	48207074	206.68

TAB 1.3

CAIDI: Feeder Level Including All Weather Conditions

CAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
	Grand Total:		233246	6301	300259	48207074	160.55
CAD061	Wisc Central	65	54	6	107	76967	719.32
HYD211	Wisc Central	65	42	1	1	576	576.00
SWC061	Wisc South	68	355	3	247	124433	503.78
ELS024	Wisc Central	65	94	2	16	7865	491.56
WTL061	Wisc North	61	1288	38	3294	1599502	485.58
OWN021	Wisc Central	64	1246	48	2811	1281430	455.86
JIM021	Wisc Central	65	359	13	224	96208	429.50
GDN021	Wisc North	62	420	2	104	43141	414.82
TRX033	Wisc Central	65	381	4	72	29407	408.43
TCN081	Wisc Central	64	2068	55	4548	1856605	408.22
SPE021	Wisc Central	64	1026	21	105	40235	383.19
RTL022	Wisc North	63	926	78	5308	1874678	353.18
RCD024	Wisc Central	66	123	2	4	1404	351.00
WTL062	Wisc North	61	1116	50	3120	1094604	350.83
SQN001	Wisc North	62	6	16	96	33540	349.38
SVN001	Wisc North	62	293	2	15	5187	345.80
TCN092	Wisc Central	64	2087	40	5949	2008474	337.62
HYD212	Wisc Central	65	71	1	1	324	324.00
RTL021	Wisc North	63	1048	91	7351	2281536	310.37
YLR081	Wisc North	61	3	1	1	310	310.00
CLL081	Wisc North	60	504	29	372	115145	309.53
RID082	Wisc North	61	742	43	763	234156	306.89
BIR022	Wisc North	61	578	25	1418	423798	298.87
BIR021	Wisc North	61	951	53	3108	895842	288.24
GLM021	Wisc Central	64	480	26	532	151674	285.10
TUR021	Wisc North	60	299	6	90	25386	282.07
TCN091	Wisc Central	64	949	54	3438	962355	279.92
OPY081	Wisc North	61	615	39	775	215063	277.50
RIC081	Wisc North	60	2102	117	4839	1324969	273.81
BNT021	Wisc North	62	472	21	225	60827	270.34
CPM025	Wisc South	67	225	4	451	120642	267.50
CPM034	Wisc South	67	52	2	104	27716	266.50
CPM032	Wisc South	67	618	3	1237	329642	266.49
CPM024	Wisc South	67	399	5	801	213118	266.06
CPM033	Wisc South	67	393	7	794	210192	264.73
CUM082	Wisc North	60	101	9	131	34642	264.44
CRN001	Wisc North	62	118	1	52	13728	264.00
CPM026	Wisc South	67	401	4	817	214869	263.00
WSM081	Wisc South	67	1287	45	1093	282437	258.41
CPM023	Wisc South	67	6	8	18	4553	252.94
WIB569	Wisc Central	65	1302	61	1433	358264	250.01
LKC081	Wisc North	60	1266	75	2367	584695	247.02
BLA023	Wisc South	67	556	10	209	50695	242.56
CPM035	Wisc South	67	108	5	244	58846	241.17
MRC022	Wisc North	63	1537	100	8657	2048940	236.68
ELS021	Wisc Central	65	421	5	32	7366	230.19
EGP212	Wisc Central	65	81	12	16	3654	228.38

CAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
	Grand Total:		233246	6301	300259	48207074	160.55
ETK021	Wisc South	67	338	4	142	32173	226.57
BEA414	Wisc North	60	850	56	815	182767	224.25
COU077	Wisc South	68	1795	19	493	109668	222.45
NFO031	Wisc North	62	1328	41	959	212581	221.67
TRP022	Wisc Central	64	917	10	577	127806	221.50
VIR003	Wisc South	67	905	7	113	24955	220.84
ELK001	Wisc Central	65	421	24	456	100366	220.10
CFO001	Wisc North	61	3	1	3	660	220.00
FEN062	Wisc South	68	482	7	74	16243	219.50
WDM081	Wisc North	61	758	51	4652	1006938	216.45
CSH022	Wisc South	67	434	24	1217	260822	214.32
HUR021	Wisc North	63	386	9	58	12308	212.21
TRL082	Wisc North	61	363	29	2039	424189	208.04
PTW001	Wisc North	62	312	12	123	25322	205.87
NLV032	Wisc Central	64	545	11	579	116732	201.61
TRX031	Wisc Central	65	77	3	8	1612	201.50
CSH021	Wisc South	67	121	12	392	77526	197.77
GMT021	Wisc North	60	198	9	395	77941	197.32
WHH022	Wisc South	67	562	19	92	18098	196.72
ONA062	Wisc South	68	938	16	1190	233626	196.32
KIN081	Wisc North	60	551	27	290	56908	196.23
NLV021	Wisc Central	64	987	9	978	190204	194.48
WBN022	Wisc North	62	446	12	261	50103	191.97
TRP021	Wisc Central	64	512	42	174	32939	189.30
SPA021	Wisc South	67	471	13	267	50453	188.96
LAX067	Wisc South	68	789	5	22	4107	186.68
TRL081	Wisc North	61	822	39	4924	916018	186.03
GOG001	Wisc North	63	3	1	3	558	186.00
MLN001	Wisc North	62	595	9	631	117180	185.71
BAY021	Wisc North	60	813	29	1419	260268	183.42
DRS211	Wisc North	61	109	6	170	30234	177.85
GLA021	Wisc North	63	75	5	164	28872	176.05
MEN022	Wisc Central	66	1581	43	727	126810	174.43
BLD021	Wisc North	63	639	22	634	110096	173.65
AYR022	Wisc North	63	893	36	1982	339996	171.54
PSI021	Wisc North	63	1275	126	11262	1921800	170.64
BES021	Wisc North	63	1065	23	1400	238264	170.19
HER001	Wisc North	62	142	2	2	340	170.00
BYD001	Wisc Central	64	318	14	26	4373	168.19
FIN021	Wisc North	61	659	12	177	29756	168.11
BYF021	Wisc North	62	2214	85	3590	603129	168.00
NLV031	Wisc Central	64	589	25	178	29659	166.62
CVA022	Wisc South	67	378	18	321	53429	166.45
OPK010	Wisc North	60	348	7	12	1996	166.33
LON071	Wisc Central	65	495	14	398	65552	164.70
EGP211	Wisc Central	65	1232	89	3488	573729	164.49
LON072	Wisc Central	65	738	9	132	21525	163.07

CAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
	Grand Total:		233246	6301	300259	48207074	160.55
PHL031	Wisc North	62	1003	30	616	100037	162.40
BEA415	Wisc North	60	386	11	477	76836	161.08
ELL022	Wisc North	60	319	5	5	802	160.40
WHH023	Wisc South	67	752	15	156	24978	160.12
FLC097	Wisc Central	65	623	16	363	57259	157.74
SPR021	Wisc Central	66	761	29	227	35679	157.18
SLD021	Wisc North	61	0	15	520	81283	156.31
IHD021	Wisc North	63	326	19	1220	189628	155.43
GEN198	Wisc South	68	274	6	595	92000	154.62
RID081	Wisc North	61	539	38	1508	232716	154.32
WLR092	Wisc North	60	3783	61	1745	266292	152.60
EGA022	Wisc Central	66	359	13	488	73835	151.30
MEN021	Wisc Central	66	900	32	426	63782	149.72
MNT001	Wisc North	63	838	10	373	55675	149.26
YLR082	Wisc North	61	1089	25	249	36974	148.49
CTA021	Wisc North	62	316	8	94	13901	147.88
CHF022	Wisc Central	65	1672	42	2454	362368	147.66
OLU021	Wisc North	62	95	4	4	589	147.25
RKL021	Wisc South	67	743	28	260	38205	146.94
WHR022	Wisc North	62	226	9	233	33994	145.90
WLR082	Wisc North	60	4784	81	3828	552648	144.37
HAY082	Wisc Central	66	1713	28	6575	948241	144.22
LOY021	Wisc Central	64	966	25	164	23630	144.09
LOY022	Wisc Central	64	757	26	814	116287	142.86
EGA021	Wisc Central	66	117	11	303	42881	141.52
LYN021	Wisc Central	64	255	12	82	11575	141.16
BAV001	Wisc North	62	722	14	115	16174	140.64
HLA071	Wisc South	68	1223	15	1595	223694	140.25
TRX023	Wisc Central	65	644	1	1	140	140.00
MDR021	Wisc Central	66	147	21	362	50524	139.57
NAP022	Wisc Central	65	1437	20	1880	260034	138.32
NAP021	Wisc Central	65	520	18	49	6749	137.73
LON061	Wisc Central	65	1328	13	246	33811	137.44
HAL063	Wisc Central	65	1486	25	779	106542	136.77
TWT081	Wisc North	60	1158	71	5431	735816	135.48
ALC022	Wisc South	67	224	3	19	2567	135.11
AUG021	Wisc Central	65	330	13	43	5804	134.98
CHF023	Wisc Central	65	818	23	1283	172699	134.61
SUP021	Wisc North	63	152	14	929	124239	133.73
ALC021	Wisc South	67	395	19	52	6946	133.58
WHR021	Wisc North	62	150	9	419	55933	133.49
CON021	Wisc North	61	0	41	1597	212939	133.34
HLA062	Wisc South	68	1439	9	92	12258	133.24
MCO021	Wisc North	63	397	20	1163	154166	132.56
SPA032	Wisc South	67	1796	51	441	58404	132.44
HUR022	Wisc North	63	866	31	508	67197	132.28
CHF033	Wisc Central	65	562	7	627	82509	131.59

CAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
	Grand Total:		233246	6301	300259	48207074	160.55
SND021	Wisc North	61	2555	166	14717	1907123	129.59
HAL062	Wisc Central	65	1637	34	604	77336	128.04
MAF061	Wisc South	68	745	13	146	18319	125.47
ELS027	Wisc Central	65	2114	33	1313	164427	125.23
FIN022	Wisc North	61	2000	88	3708	460331	124.15
IRW001	Wisc North	63	344	2	40	4958	123.95
RSK021	Wisc Central	66	683	41	382	47126	123.37
PRN021	Wisc North	62	776	36	2311	284972	123.31
CEF081	Wisc Central	66	836	32	759	93492	123.18
TLA001	Wisc North	63	1	1	1	122	122.00
CVA021	Wisc South	67	671	18	95	11572	121.81
STA082	Wisc Central	64	608	13	260	31620	121.62
LYN022	Wisc Central	64	419	12	66	8007	121.32
RSH092	Wisc North	60	327	12	175	20834	119.05
TUR022	Wisc North	60	325	5	32	3731	116.59
ELM022	Wisc Central	66	596	23	866	99107	114.44
MNR021	Wisc North	62	95	14	58	6610	113.97
PRE021	Wisc North	60	1238	30	1819	205213	112.82
STA083	Wisc Central	64	803	20	124	13928	112.32
RSH081	Wisc North	60	2268	33	433	47878	110.57
PEP021	Wisc Central	66	893	55	4554	503446	110.55
SHW021	Wisc Central	65	262	7	123	13454	109.38
HWD022	Wisc North	61	677	18	773	84443	109.24
LAX063	Wisc South	68	1481	9	60	6553	109.22
COU068	Wisc South	68	1876	24	478	52117	109.03
HWD021	Wisc North	61	556	25	624	68032	109.03
TRX021	Wisc Central	65	1046	40	1625	175578	108.05
DUR022	Wisc Central	66	1021	40	1888	201261	106.60
AYR021	Wisc North	63	831	10	1483	157595	106.27
ELL021	Wisc North	60	1044	21	232	24514	105.66
MRC021	Wisc North	63	114	12	292	30815	105.53
MCO001	Wisc North	63	203	3	205	21476	104.76
RSH091	Wisc North	60	958	46	929	96536	103.91
SXF021	Wisc North	63	204	13	609	62808	103.13
GAL021	Wisc South	67	1269	25	965	99366	102.97
SCF024	Wisc North	60	224	18	504	51667	102.51
GEN197	Wisc South	68	744	16	116	11825	101.94
HWK021	Wisc North	61	224	6	55	5593	101.69
WLR091	Wisc North	60	2552	23	2836	287931	101.53
STM022	Wisc Central	65	1000	14	1093	110127	100.76
RBL022	Wisc North	62	176	20	610	61105	100.17
SPA031	Wisc South	67	1547	11	64	6395	99.92
FEN073	Wisc South	68	957	17	1115	111272	99.80
HYD032	Wisc Central	65	2687	96	6354	625288	98.41
SPA022	Wisc South	67	1454	16	184	18046	98.08
TRX022	Wisc Central	65	748	13	193	18876	97.80
RBL021	Wisc North	62	138	19	406	39353	96.93

CAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
	Grand Total:		233246	6301	300259	48207074	160.55
STM021	Wisc Central	65	522	14	572	55314	96.70
CTS021	Wisc Central	64	730	10	513	49534	96.56
NFO021	Wisc North	62	1062	47	895	86400	96.54
RBL023	Wisc North	62	660	32	2109	201976	95.77
HAL073	Wisc Central	65	417	10	112	10607	94.71
DRS212	Wisc North	61	611	8	162	15072	93.04
HAY081	Wisc Central	66	655	11	380	35241	92.74
DUR021	Wisc Central	66	482	7	515	47330	91.90
BLA021	Wisc South	67	683	18	30	2742	91.40
PRE022	Wisc North	60	721	25	401	36636	91.36
LON062	Wisc Central	65	483	6	713	64509	90.48
ARK081	Wisc Central	66	85	12	168	15194	90.44
CAB022	Wisc North	61	381	11	123	11103	90.27
RCD022	Wisc Central	66	105	5	21	1892	90.10
SLA001	Wisc North	61	3	1	3	270	90.00
PHL021	Wisc North	62	743	22	100	8979	89.79
LUK021	Wisc North	60	1028	32	285	25581	89.76
CHF024	Wisc Central	65	1366	22	854	75920	88.90
IRW002	Wisc North	63	566	4	13	1149	88.38
AUG022	Wisc Central	65	691	6	29	2559	88.24
STA081	Wisc Central	64	199	3	27	2350	87.04
FEN072	Wisc South	68	840	5	865	75172	86.90
JEF221	Wisc Central	65	74	5	33	2844	86.18
RVW021	Wisc Central	65	82	1	1	86	86.00
RCL031	Wisc North	61	1381	76	7361	626818	85.15
WSM091	Wisc South	67	1991	40	786	66315	84.37
OTC031	Wisc Central	65	1757	40	4025	338455	84.09
ONA061	Wisc South	68	2286	19	420	35274	83.99
JEF211	Wisc Central	65	106	5	5	419	83.80
BFT061	Wisc North	62	581	12	746	61705	82.71
ARK082	Wisc Central	66	598	26	1179	95862	81.31
OTC021	Wisc Central	65	553	14	1730	140641	81.30
NRA001	Wisc North	63	470	3	9	729	81.00
WND081	Wisc Central	66	269	13	510	41049	80.49
COU071	Wisc South	68	1333	14	353	27910	79.07
CAT021	Wisc South	67	494	28	933	73473	78.75
RCD023	Wisc Central	66	906	27	562	43922	78.15
WBN021	Wisc North	62	836	12	21	1637	77.95
IRW003	Wisc North	63	525	3	13	1011	77.77
CUM081	Wisc North	60	229	12	471	36413	77.31
CHF021	Wisc Central	65	667	8	48	3684	76.75
IRB001	Wisc North	63	148	3	151	11476	76.00
ELM021	Wisc Central	66	224	31	339	25660	75.69
UPS001	Wisc North	63	45	1	45	3375	75.00
LAX076	Wisc South	68	1153	9	39	2909	74.59
EWA001	Wisc North	61	3	2	6	444	74.00
COU062	Wisc South	68	1377	12	273	20012	73.30

CAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
	Grand Total:		239246	6301	300259	4820707	160.55
TRX032	Wisc Central	65	1859	24	391	28562	73.05
ALM559	Wisc Central	66	507	13	1258	91715	72.91
MEN032	Wisc Central	66	1767	30	1370	99857	72.89
TWN022	Wisc North	63	683	31	1305	93445	71.61
VIR002	Wisc South	67	499	2	2	143	71.50
ELS034	Wisc Central	65	311	13	985	69567	70.63
MAF072	Wisc South	68	664	16	882	61941	70.23
ELS031	Wisc Central	65	744	17	1370	95464	69.68
HYD031	Wisc Central	65	55	1	1	69	69.00
SST062	Wisc North	62	586	15	678	46662	68.82
IRW005	Wisc North	63	315	8	56	3813	68.09
VIR061	Wisc South	67	1340	24	649	43981	67.77
ELS033	Wisc Central	65	1491	12	1766	119351	67.58
GVA021	Wisc South	67	323	13	58	3908	67.38
FEN061	Wisc South	68	1183	26	233	15601	66.96
AMC001	Wisc North	62	3	1	3	198	66.00
BFT062	Wisc North	62	640	6	129	8449	65.50
CLL082	Wisc North	60	406	6	174	11367	65.33
NEL021	Wisc Central	66	247	7	997	64864	65.06
CAB021	Wisc North	61	462	29	412	26550	64.44
OTC022	Wisc Central	65	1592	26	1954	125643	64.30
OGE021	Wisc North	62	172	14	428	27428	64.08
WLR081	Wisc North	60	1737	29	1016	65059	64.03
LAX075	Wisc South	68	1615	14	274	17517	63.93
ALM560	Wisc Central	66	15	2	30	1890	63.00
SST061	Wisc North	62	537	16	653	41097	62.94
TAD021	Wisc North	61	345	14	36	2254	62.61
CPM022	Wisc South	67	5	1	5	310	62.00
ELS032	Wisc Central	65	1188	5	1258	77020	61.22
SOE001	Wisc North	62	511	1	1	61	61.00
GST023	Wisc North	60	578	18	262	15920	60.76
GRV021	Wisc North	62	105	1	1	60	60.00
MAF073	Wisc South	68	368	3	399	23117	57.94
OTC032	Wisc Central	65	1484	19	1742	100864	57.90
COU078	Wisc South	68	1212	17	5001	288416	57.67
MAF071	Wisc South	68	1064	18	2462	136820	55.57
BES022	Wisc North	63	1084	11	145	7916	54.59
TWN021	Wisc North	63	697	25	876	47429	54.14
SCF025	Wisc North	60	992	22	2604	136301	52.34
SWC072	Wisc South	68	1184	8	175	9152	52.30
OSC021	Wisc North	60	1243	34	2995	156380	52.21
WSM092	Wisc South	67	1098	9	52	2710	52.12
LON063	Wisc Central	65	216	7	35	1792	51.20
MEN031	Wisc Central	66	25	1	1	51	51.00
OSC022	Wisc North	60	706	22	946	47959	50.70
COU069	Wisc South	68	471	6	51	2555	50.10
HAL072	Wisc Central	65	1144	22	162	7988	49.31

CAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
	Grand Total:		233246	6301	300259	4820704	160.55
CMR021	Wisc North	61	1119	36	1535	73706	48.02
POK062	Wisc North	61	890	12	943	44469	47.16
ELS022	Wisc Central	65	473	3	20	940	47.00
MAD062	Wisc Central	65	928	12	1154	53692	46.53
MAF063	Wisc South	68	1543	12	203	9404	46.33
DRM021	Wisc North	61	167	3	21	970	46.19
SWC071	Wisc South	68	257	1	15	690	46.00
WHR023	Wisc North	62	241	16	77	3471	45.08
BKD021	Wisc North	62	293	19	347	14821	42.71
MLS021	Wisc South	67	520	8	544	22554	41.46
PMP001	Wisc North	61	6	1	6	246	41.00
NSI001	Wisc North	63	631	4	672	27204	40.48
LAX065	Wisc South	68	941	2	2	78	39.00
MAF062	Wisc South	68	51	2	3	114	38.00
MNR022	Wisc North	62	110	1	1	38	38.00
MAD072	Wisc Central	65	1446	28	2470	93641	37.91
GST021	Wisc North	60	410	13	679	25689	37.83
MAD061	Wisc Central	65	312	7	416	15679	37.69
POK061	Wisc North	61	791	18	1017	37476	36.85
VAV001	Wisc North	62	284	1	1	36	36.00
MAD071	Wisc Central	65	733	4	748	26003	34.76
LAX077	Wisc South	68	268	3	19	647	34.05
LAX062	Wisc South	68	1835	14	2322	78473	33.80
LAX074	Wisc South	68	638	6	47	1560	33.19
OTC023	Wisc Central	65	1376	9	2916	96773	33.19
CHF031	Wisc Central	65	432	4	23	740	32.17
COU061	Wisc South	68	1570	22	2083	62093	29.81
COC021	Wisc Central	66	409	6	496	14235	28.70
RCL021	Wisc North	61	51	4	111	3139	28.28
HAF001	Wisc South	67	110	1	1	27	27.00
TST001	Wisc North	62	300	2	311	8220	26.43
OSC031	Wisc North	60	62	2	65	1698	26.12
BLA022	Wisc South	67	17	1	17	442	26.00
MEN023	Wisc Central	66	338	1	1	24	24.00
MER021	Wisc South	67	763	11	819	19082	23.30
PRS563	Wisc Central	65	3	1	1	18	18.00
AMY001	Wisc North	60	558	2	568	9600	16.90
COU079	Wisc South	68	547	14	1265	18824	14.88
ALN001	Wisc North	63	9	0	0	0	0.00
AMC002	Wisc North	62	3	0	0	0	0.00
BGR020	Wisc South	67	0	0	0	0	0.00
BLR020	Wisc Central	65	0	0	0	0	0.00
BMU021	Wisc North	61	0	0	0	0	0.00
BRA001	Wisc North	63	1	0	0	0	0.00
CAD001	Wisc Central	65	0	0	0	0	0.00
CHF032	Wisc Central	65	0	0	0	0	0.00
CHF034	Wisc Central	65	209	0	0	0	0.00

CAIDI

2002

Xcel Energy - Wisconsin YE Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	CAIDI
	Grand Total:		233246	6301	300259	48207074	160.55
RCL029	Wisc North	61	0	0	0	0	0.00
RCL039	Wisc North	61	0	0	0	0	0.00
RIC082	Wisc North	60	4	0	0	0	0.00
SAX001	Wisc North	63	3	0	0	0	0.00
SPA033	Wisc South	67	0	0	0	0	0.00
SPN001	Wisc North	61	0	0	0	0	0.00
STE471	Wisc Central	65	3	0	0	0	0.00
STE472	Wisc Central	65	3	0	0	0	0.00
SUM211	Wisc Central	65	0	0	0	0	0.00
SUM212	Wisc Central	65	0	0	0	0	0.00
SWC062	Wisc South	68	12	0	0	0	0.00
THA001	Wisc North	61	0	0	0	0	0.00
TMU001	Wisc South	67	0	0	0	0	0.00
TRE021	Wisc South	67	18	0	0	0	0.00
USR533	Wisc Central	65	6	0	0	0	0.00
USR534	Wisc Central	65	9	0	0	0	0.00
WAF001	Wisc North	63	3	0	0	0	0.00
WBI021	Wisc North	62	3	0	0	0	0.00
WBY171	Wisc South	67	0	0	0	0	0.00
WDB001	Wisc North	63	7	0	0	0	0.00
WTH001	Wisc North	61	0	0	0	0	0.00
			233246	6301	300259	48207074	160.55

TAB 1.4

ALL: Feeder Level Including All Weather Conditions

Xcel Energy - Wisconsin Year-End Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	6301	300259	48207074	206.68	1.29	160.55
AMY001	Wisc North	60	558	2	568	9600	17.20	1.02	16.90
BAY021	Wisc North	60	813	29	1419	260268	320.13	1.75	183.42
BEA414	Wisc North	60	850	56	815	182767	215.02	0.96	224.25
BEA415	Wisc North	60	386	11	477	76836	199.06	1.24	161.08
CLL081	Wisc North	60	504	29	372	115145	228.46	0.74	309.53
CLL082	Wisc North	60	406	6	174	11367	28.00	0.43	65.33
CUM081	Wisc North	60	229	12	471	36413	159.01	2.06	77.31
CUM082	Wisc North	60	101	9	131	34642	342.99	1.30	264.44
ELL021	Wisc North	60	1044	21	232	24514	23.48	0.22	105.66
ELL022	Wisc North	60	319	5	5	802	2.51	0.02	160.40
GMT021	Wisc North	60	198	9	395	77941	393.64	1.99	197.32
GST021	Wisc North	60	410	13	679	25689	62.66	1.66	37.83
GST023	Wisc North	60	578	18	262	15920	27.54	0.45	60.76
KIN081	Wisc North	60	551	27	290	56908	103.28	0.53	196.23
LKC081	Wisc North	60	1266	75	2367	584695	461.84	1.87	247.02
LUK021	Wisc North	60	1028	32	285	25581	24.88	0.28	89.76
OPK010	Wisc North	60	348	7	12	1996	5.74	0.03	166.33
OPK011	Wisc North	60	9	0	0	0	0.00	0.00	0.00
OSC021	Wisc North	60	1243	34	2995	156380	125.81	2.41	52.21
OSC022	Wisc North	60	706	22	946	47959	67.93	1.34	50.70
OSC031	Wisc North	60	62	2	65	1698	27.39	1.05	26.12
OSC032	Wisc North	60	0	0	0	0	0.00	0.00	0.00
PRE021	Wisc North	60	1238	30	1819	205213	165.76	1.47	112.82
PRE022	Wisc North	60	721	25	401	36636	50.81	0.56	91.36
RIC081	Wisc North	60	2102	117	4839	1324969	630.34	2.30	273.81
RIC082	Wisc North	60	4	0	0	0	0.00	0.00	0.00
RSH081	Wisc North	60	2268	33	433	47878	21.11	0.19	110.57
RSH091	Wisc North	60	958	46	929	96536	100.77	0.97	103.91
RSH092	Wisc North	60	327	12	175	20834	63.71	0.54	119.05
SCF024	Wisc North	60	224	18	504	51667	230.66	2.25	102.51
SCF025	Wisc North	60	992	22	2604	136301	137.40	2.63	52.34
TUR021	Wisc North	60	299	6	90	25386	84.90	0.30	282.07
TUR022	Wisc North	60	325	5	32	3731	11.48	0.10	116.59
TWT081	Wisc North	60	1158	71	5431	735816	635.42	4.69	135.48
WLR081	Wisc North	60	1737	29	1016	65059	37.45	0.58	64.03
WLR082	Wisc North	60	4784	81	3828	552648	115.52	0.80	144.37
WLR091	Wisc North	60	2552	23	2836	287931	112.83	1.11	101.53
WLR092	Wisc North	60	3783	61	1745	266292	70.39	0.46	152.60
BIR021	Wisc North	61	951	53	3108	895842	942.00	3.27	288.24
BIR022	Wisc North	61	578	25	1418	423798	733.21	2.45	298.87
BMU021	Wisc North	61	0	0	0	0	0.00	0.00	0.00
CAB021	Wisc North	61	462	29	412	26550	57.47	0.89	64.44
CAB022	Wisc North	61	381	11	123	11103	29.14	0.32	90.27
CFO001	Wisc North	61	3	1	3	660	220.00	1.00	220.00
CMR021	Wisc North	61	1119	36	1535	73706	65.87	1.37	48.02
CON021	Wisc North	61	0	41	1597	212939	0.00	0.00	133.34
DRM021	Wisc North	61	167	3	21	970	5.81	0.13	46.19

Xcel Energy - Wisconsin Year-End Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	6301	300259	48207074	206.68	1.29	160.55
DRS211	Wisc North	61	109	6	170	30234	277.38	1.56	177.85
DRS212	Wisc North	61	611	8	162	15072	24.67	0.27	93.04
EWA001	Wisc North	61	3	2	6	444	148.00	2.00	74.00
FIN021	Wisc North	61	659	12	177	29756	45.15	0.27	168.11
FIN022	Wisc North	61	2000	88	3708	460331	230.17	1.85	124.15
HWD021	Wisc North	61	556	25	624	68032	122.36	1.12	109.03
HWD022	Wisc North	61	677	18	773	84443	124.73	1.14	109.24
HWK021	Wisc North	61	224	6	55	5593	24.97	0.25	101.69
LDP001	Wisc North	61	0	0	0	0	0.00	0.00	0.00
OPY081	Wisc North	61	615	39	775	215063	349.70	1.26	277.50
PMP001	Wisc North	61	6	1	6	246	41.00	1.00	41.00
POK061	Wisc North	61	791	18	1017	37476	47.38	1.29	36.85
POK062	Wisc North	61	890	12	943	44469	49.97	1.06	47.16
RCL021	Wisc North	61	51	4	111	3139	61.55	2.18	28.28
RCL029	Wisc North	61	0	0	0	0	0.00	0.00	0.00
RCL031	Wisc North	61	1381	76	7361	626818	453.89	5.33	85.15
RCL039	Wisc North	61	0	0	0	0	0.00	0.00	0.00
RID081	Wisc North	61	539	38	1508	232716	431.76	2.80	154.32
RID082	Wisc North	61	742	43	763	234156	315.57	1.03	306.89
SLA001	Wisc North	61	3	1	3	270	90.00	1.00	90.00
SLD021	Wisc North	61	0	15	520	81283	0.00	0.00	156.31
SND021	Wisc North	61	2555	166	14717	1907123	746.43	5.76	129.59
SPN001	Wisc North	61	0	0	0	0	0.00	0.00	0.00
TAD021	Wisc North	61	345	14	36	2254	6.53	0.10	62.61
THA001	Wisc North	61	0	0	0	0	0.00	0.00	0.00
TRL081	Wisc North	61	822	39	4924	916018	1114.38	5.99	186.03
TRL082	Wisc North	61	363	29	2039	424189	1168.56	5.62	208.04
WDM081	Wisc North	61	758	51	4652	1006938	1328.41	6.14	216.45
WTH001	Wisc North	61	0	0	0	0	0.00	0.00	0.00
WTL061	Wisc North	61	1288	38	3294	1599502	1241.85	2.56	485.58
WTL062	Wisc North	61	1116	50	3120	1094604	980.83	2.80	350.83
YLR081	Wisc North	61	3	1	1	310	103.33	0.33	310.00
YLR082	Wisc North	61	1089	25	249	36974	33.95	0.23	148.49
AMC001	Wisc North	62	3	1	3	198	66.00	1.00	66.00
AMC002	Wisc North	62	3	0	0	0	0.00	0.00	0.00
BAV001	Wisc North	62	722	14	115	16174	22.40	0.16	140.64
BFT061	Wisc North	62	581	12	746	61705	106.20	1.28	82.71
BFT062	Wisc North	62	640	6	129	8449	13.20	0.20	65.50
BKD021	Wisc North	62	293	19	347	14821	50.58	1.18	42.71
BNT021	Wisc North	62	472	21	225	60827	128.87	0.48	270.34
BYF021	Wisc North	62	2214	85	3590	603129	272.42	1.62	168.00
CRN001	Wisc North	62	118	1	52	13728	116.34	0.44	264.00
CTA021	Wisc North	62	316	8	94	13901	43.99	0.30	147.88
FAY001	Wisc North	62	256	0	0	0	0.00	0.00	0.00
FLB010	Wisc North	62	3	0	0	0	0.00	0.00	0.00
GAS62I	Wisc North	62	0	0	0	0	0.00	0.00	0.00
GAS62S	Wisc North	62	4	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
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GDN021	Wisc North	62	420	2	104	43141	102.72	0.25	414.82
GRV021	Wisc North	62	105	1	1	60	0.57	0.01	60.00
HER001	Wisc North	62	142	2	2	340	2.39	0.01	170.00
HWY021	Wisc North	62	3	0	0	0	0.00	0.00	0.00
INO001	Wisc North	62	0	0	0	0	0.00	0.00	0.00
LPA001	Wisc North	62	3	0	0	0	0.00	0.00	0.00
MLN001	Wisc North	62	595	9	631	117180	196.94	1.06	185.71
MNR021	Wisc North	62	95	14	58	6610	69.58	0.61	113.97
MNR022	Wisc North	62	110	1	1	38	0.35	0.01	38.00
MSE021	Wisc North	62	29	0	0	0	0.00	0.00	0.00
NFO021	Wisc North	62	1062	47	895	86400	81.36	0.84	96.54
NFO031	Wisc North	62	1328	41	959	212581	160.08	0.72	221.67
OGE021	Wisc North	62	172	14	428	27428	159.47	2.49	64.08
OLU021	Wisc North	62	95	4	4	589	6.20	0.04	147.25
PHL021	Wisc North	62	743	22	100	8979	12.08	0.13	89.79
PHL031	Wisc North	62	1003	30	616	100037	99.74	0.61	162.40
PHL032	Wisc North	62	3	0	0	0	0.00	0.00	0.00
PRN021	Wisc North	62	776	36	2311	284972	367.23	2.98	123.31
PTW001	Wisc North	62	312	12	123	25322	81.16	0.39	205.87
RBL021	Wisc North	62	138	19	406	39353	285.17	2.94	96.93
RBL022	Wisc North	62	176	20	610	61105	347.19	3.47	100.17
RBL023	Wisc North	62	660	32	2109	201976	306.02	3.20	95.77
SOE001	Wisc North	62	511	1	1	61	0.12	0.00	61.00
SQN001	Wisc North	62	6	16	96	33540	5590.00	16.00	349.38
SST061	Wisc North	62	537	16	653	41097	76.53	1.22	62.94
SST062	Wisc North	62	586	15	678	46662	79.63	1.16	68.82
SVN001	Wisc North	62	293	2	15	5187	17.70	0.05	345.80
TST001	Wisc North	62	300	2	311	8220	27.40	1.04	26.43
VAV001	Wisc North	62	284	1	1	36	0.13	0.00	36.00
WBI021	Wisc North	62	3	0	0	0	0.00	0.00	0.00
WBN021	Wisc North	62	836	12	21	1637	1.96	0.03	77.95
WBN022	Wisc North	62	446	12	261	50103	112.34	0.59	191.97
WHR021	Wisc North	62	150	9	419	55933	372.89	2.79	133.49
WHR022	Wisc North	62	226	9	233	33994	150.42	1.03	145.90
WHR023	Wisc North	62	241	16	77	3471	14.40	0.32	45.08
ALN001	Wisc North	63	9	0	0	0	0.00	0.00	0.00
AYR021	Wisc North	63	831	10	1483	157595	189.65	1.78	106.27
AYR022	Wisc North	63	893	36	1982	339996	380.73	2.22	171.54
BES021	Wisc North	63	1065	23	1400	238264	223.72	1.31	170.19
BES022	Wisc North	63	1084	11	145	7916	7.30	0.13	54.59
BLD021	Wisc North	63	639	22	634	110096	172.29	0.99	173.65
BRA001	Wisc North	63	1	0	0	0	0.00	0.00	0.00
CNR001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
GAS63E	Wisc North	63	135	0	0	0	0.00	0.00	0.00
GAS63W	Wisc North	63	404	0	0	0	0.00	0.00	0.00
GLA021	Wisc North	63	75	5	164	28872	384.96	2.19	176.05
GOG001	Wisc North	63	3	1	3	558	186.00	1.00	186.00

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HGN021	Wisc North	63	6	0	0	0	0.00	0.00	0.00
HUR021	Wisc North	63	386	9	58	12308	31.89	0.15	212.21
HUR022	Wisc North	63	866	31	508	67197	77.59	0.59	132.28
IHD021	Wisc North	63	326	19	1220	189628	581.68	3.74	155.43
IRB001	Wisc North	63	148	3	151	11476	77.54	1.02	76.00
IRP001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
IRP002	Wisc North	63	0	0	0	0	0.00	0.00	0.00
IRW001	Wisc North	63	344	2	40	4958	14.41	0.12	123.95
IRW002	Wisc North	63	566	4	13	1149	2.03	0.02	88.38
IRW003	Wisc North	63	525	3	13	1011	1.93	0.02	77.77
IRW004	Wisc North	63	0	0	0	0	0.00	0.00	0.00
IRW005	Wisc North	63	315	8	56	3813	12.10	0.18	68.09
JKS021	Wisc North	63	4	0	0	0	0.00	0.00	0.00
LUP001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
MCO001	Wisc North	63	203	3	205	21476	105.79	1.01	104.76
MCO021	Wisc North	63	397	20	1163	154166	388.33	2.93	132.56
MEY021	Wisc North	63	3	0	0	0	0.00	0.00	0.00
MID001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
MNT001	Wisc North	63	838	10	373	55675	66.44	0.45	149.26
MRC021	Wisc North	63	114	12	292	30815	270.31	2.56	105.53
MRC022	Wisc North	63	1537	100	8657	2048940	1333.08	5.63	236.68
NRA001	Wisc North	63	470	3	9	729	1.55	0.02	81.00
NSI001	Wisc North	63	631	4	672	27204	43.11	1.06	40.48
OJB021	Wisc North	63	5	0	0	0	0.00	0.00	0.00
PSI021	Wisc North	63	1275	126	11262	1921800	1507.29	8.83	170.64
RTL021	Wisc North	63	1048	91	7351	2281536	2177.04	7.01	310.37
RTL022	Wisc North	63	926	78	5308	1874678	2024.49	5.73	353.18
SAX001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
SUP021	Wisc North	63	152	14	929	124239	817.36	6.11	133.73
SXF021	Wisc North	63	204	13	609	62808	307.88	2.99	103.13
TLA001	Wisc North	63	1	1	1	122	122.00	1.00	122.00
TWN021	Wisc North	63	697	25	876	47429	68.05	1.26	54.14
TWN022	Wisc North	63	683	31	1305	93445	136.82	1.91	71.61
UPS001	Wisc North	63	45	1	45	3375	75.00	1.00	75.00
WAF001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
WDB001	Wisc North	63	7	0	0	0	0.00	0.00	0.00
BYD001	Wisc Central	64	318	14	26	4373	13.75	0.08	168.19
CTS021	Wisc Central	64	730	10	513	49534	67.85	0.70	96.56
GLM021	Wisc Central	64	480	26	532	151674	315.99	1.11	285.10
LKH010	Wisc Central	64	3	0	0	0	0.00	0.00	0.00
LKH020	Wisc Central	64	3	0	0	0	0.00	0.00	0.00
LOY021	Wisc Central	64	966	25	164	23630	24.46	0.17	144.09
LOY022	Wisc Central	64	757	26	814	116287	153.62	1.08	142.86
LYN021	Wisc Central	64	255	12	82	11575	45.39	0.32	141.16
LYN022	Wisc Central	64	419	12	66	8007	19.11	0.16	121.32
MFN021	Wisc Central	64	0	0	0	0	0.00	0.00	0.00
MFS021	Wisc Central	64	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Reliability
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MFW021	Wisc Central	64	0	0	0	0	0.00	0.00	0.00
NLV021	Wisc Central	64	987	9	978	190204	192.71	0.99	194.48
NLV031	Wisc Central	64	589	25	178	29659	50.35	0.30	166.62
NLV032	Wisc Central	64	545	11	579	116732	214.19	1.06	201.61
OWN021	Wisc Central	64	1246	48	2811	1281430	1028.43	2.26	455.86
SPE021	Wisc Central	64	1026	21	105	40235	39.22	0.10	383.19
STA081	Wisc Central	64	199	3	27	2350	11.81	0.14	87.04
STA082	Wisc Central	64	608	13	260	31620	52.01	0.43	121.62
STA083	Wisc Central	64	803	20	124	13928	17.34	0.15	112.32
TCN081	Wisc Central	64	2068	55	4548	1856605	897.78	2.20	408.22
TCN091	Wisc Central	64	949	54	3438	962355	1014.07	3.62	279.92
TCN092	Wisc Central	64	2087	40	5949	2008474	962.37	2.85	337.62
TRP021	Wisc Central	64	512	42	174	32939	64.33	0.34	189.30
TRP022	Wisc Central	64	917	10	577	127806	139.37	0.63	221.50
AUG021	Wisc Central	65	330	13	43	5804	17.59	0.13	134.98
AUG022	Wisc Central	65	691	6	29	2559	3.70	0.04	88.24
BLR020	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
CAD001	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
CAD061	Wisc Central	65	54	6	107	76967	1425.31	1.98	719.32
CHF021	Wisc Central	65	667	8	48	3684	5.52	0.07	76.75
CHF022	Wisc Central	65	1672	42	2454	362368	216.73	1.47	147.66
CHF023	Wisc Central	65	818	23	1283	172699	211.12	1.57	134.61
CHF024	Wisc Central	65	1366	22	854	75920	55.58	0.63	88.90
CHF031	Wisc Central	65	432	4	23	740	1.71	0.05	32.17
CHF032	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
CHF033	Wisc Central	65	562	7	627	82509	146.81	1.12	131.59
CHF034	Wisc Central	65	209	0	0	0	0.00	0.00	0.00
COR197	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
COR198	Wisc Central	65	3	0	0	0	0.00	0.00	0.00
EGP211	Wisc Central	65	1232	89	3488	573729	465.69	2.83	164.49
EGP212	Wisc Central	65	81	12	16	3654	45.11	0.20	228.38
ELK001	Wisc Central	65	421	24	456	100366	238.40	1.08	220.10
ELS021	Wisc Central	65	421	5	32	7366	17.50	0.08	230.19
ELS022	Wisc Central	65	473	3	20	940	1.99	0.04	47.00
ELS023	Wisc Central	65	15	0	0	0	0.00	0.00	0.00
ELS024	Wisc Central	65	94	2	16	7865	83.67	0.17	491.56
ELS027	Wisc Central	65	2114	33	1313	164427	77.78	0.62	125.23
ELS031	Wisc Central	65	744	17	1370	95464	128.31	1.84	69.68
ELS032	Wisc Central	65	1188	5	1258	77020	64.83	1.06	61.22
ELS033	Wisc Central	65	1491	12	1766	119351	80.05	1.18	67.58
ELS034	Wisc Central	65	311	13	985	69567	223.69	3.17	70.63
FLC097	Wisc Central	65	623	16	363	57259	91.91	0.58	157.74
GAS651	Wisc Central	65	2	0	0	0	0.00	0.00	0.00
HAL062	Wisc Central	65	1637	34	604	77336	47.24	0.37	128.04
HAL063	Wisc Central	65	1486	25	779	106542	71.70	0.52	136.77
HAL072	Wisc Central	65	1144	22	162	7988	6.98	0.14	49.31
HAL073	Wisc Central	65	417	10	112	10607	25.44	0.27	94.71

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	Grand Total:		233246	6301	300259	48207074	206.68	1.29	160.55
HYD031	Wisc Central	65	55	1	1	69	1.25	0.02	69.00
HYD032	Wisc Central	65	2687	96	6354	625288	232.71	2.36	98.41
HYD211	Wisc Central	65	42	1	1	576	13.71	0.02	576.00
HYD212	Wisc Central	65	71	1	1	324	4.56	0.01	324.00
JEF211	Wisc Central	65	106	5	5	419	3.95	0.05	83.80
JEF221	Wisc Central	65	74	5	33	2844	38.43	0.45	86.18
JIM021	Wisc Central	65	359	13	224	96208	267.99	0.62	429.50
LON061	Wisc Central	65	1328	13	246	33811	25.46	0.19	137.44
LON062	Wisc Central	65	483	6	713	64509	133.56	1.48	90.48
LON063	Wisc Central	65	216	7	35	1792	8.30	0.16	51.20
LON071	Wisc Central	65	495	14	398	65552	132.43	0.80	164.70
LON072	Wisc Central	65	738	9	132	21525	29.17	0.18	163.07
MAD061	Wisc Central	65	312	7	416	15679	50.25	1.33	37.69
MAD062	Wisc Central	65	928	12	1154	53692	57.86	1.24	46.53
MAD071	Wisc Central	65	733	4	748	26003	35.47	1.02	34.76
MAD072	Wisc Central	65	1446	28	2470	93641	64.76	1.71	37.91
NAP021	Wisc Central	65	520	18	49	6749	12.98	0.09	137.73
NAP022	Wisc Central	65	1437	20	1880	260034	180.96	1.31	138.32
OTC021	Wisc Central	65	553	14	1730	140641	254.32	3.13	81.30
OTC022	Wisc Central	65	1592	26	1954	125643	78.92	1.23	64.30
OTC023	Wisc Central	65	1376	9	2916	96773	70.33	2.12	33.19
OTC031	Wisc Central	65	1757	40	4025	338455	192.63	2.29	84.09
OTC032	Wisc Central	65	1484	19	1742	100864	67.97	1.17	57.90
PRS563	Wisc Central	65	3	1	1	18	6.00	0.33	18.00
PRS565	Wisc Central	65	3	0	0	0	0.00	0.00	0.00
RVW021	Wisc Central	65	82	1	1	86	1.05	0.01	86.00
SHW021	Wisc Central	65	262	7	123	13454	51.35	0.47	109.38
STE471	Wisc Central	65	3	0	0	0	0.00	0.00	0.00
STE472	Wisc Central	65	3	0	0	0	0.00	0.00	0.00
STM021	Wisc Central	65	522	14	572	55314	105.97	1.10	96.70
STM022	Wisc Central	65	1000	14	1093	110127	110.13	1.09	100.76
SUM211	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
SUM212	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
TRX021	Wisc Central	65	1046	40	1625	175578	167.86	1.55	108.05
TRX022	Wisc Central	65	748	13	193	18876	25.24	0.26	97.80
TRX023	Wisc Central	65	644	1	1	140	0.22	0.00	140.00
TRX031	Wisc Central	65	77	3	8	1612	20.94	0.10	201.50
TRX032	Wisc Central	65	1859	24	391	28562	15.36	0.21	73.05
TRX033	Wisc Central	65	381	4	72	29407	77.18	0.19	408.43
USR533	Wisc Central	65	6	0	0	0	0.00	0.00	0.00
USR534	Wisc Central	65	9	0	0	0	0.00	0.00	0.00
WIB569	Wisc Central	65	1302	61	1433	358264	275.16	1.10	250.01
ALM559	Wisc Central	66	507	13	1258	91715	180.90	2.48	72.91
ALM560	Wisc Central	66	15	2	30	1890	126.00	2.00	63.00
ARK081	Wisc Central	66	85	12	168	15194	178.75	1.98	90.44
ARK082	Wisc Central	66	598	26	1179	95862	160.30	1.97	81.31
CEF081	Wisc Central	66	836	32	759	93492	111.83	0.91	123.18

Xcel Energy - Wisconsin Year-End Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	6301	300259	48207074	206.68	1.29	160.55
COC021	Wisc Central	66	409	6	496	14235	34.80	1.21	28.70
DUR021	Wisc Central	66	482	7	515	47330	98.20	1.07	91.90
DUR022	Wisc Central	66	1021	40	1888	201261	197.12	1.85	106.60
EGA021	Wisc Central	66	117	11	303	42881	366.50	2.59	141.52
EGA022	Wisc Central	66	359	13	488	73835	205.67	1.36	151.30
ELM021	Wisc Central	66	224	31	339	25660	114.55	1.51	75.69
ELM022	Wisc Central	66	596	23	866	99107	166.29	1.45	114.44
HAY081	Wisc Central	66	655	11	380	35241	53.80	0.58	92.74
HAY082	Wisc Central	66	1713	28	6575	948241	553.56	3.84	144.22
MDR021	Wisc Central	66	147	21	362	50524	343.70	2.46	139.57
MEN021	Wisc Central	66	900	32	426	63782	70.87	0.47	149.72
MEN022	Wisc Central	66	1581	43	727	126810	80.21	0.46	174.43
MEN023	Wisc Central	66	338	1	1	24	0.07	0.00	24.00
MEN031	Wisc Central	66	25	1	1	51	2.04	0.04	51.00
MEN032	Wisc Central	66	1767	30	1370	99857	56.51	0.78	72.89
NEL021	Wisc Central	66	247	7	997	64864	262.61	4.04	65.06
PEP021	Wisc Central	66	893	55	4554	503446	563.77	5.10	110.55
RCD022	Wisc Central	66	105	5	21	1892	18.02	0.20	90.10
RCD023	Wisc Central	66	906	27	562	43922	48.48	0.62	78.15
RCD024	Wisc Central	66	123	2	4	1404	11.41	0.03	351.00
RCD031	Wisc Central	66	3	0	0	0	0.00	0.00	0.00
RCD032	Wisc Central	66	6	0	0	0	0.00	0.00	0.00
RCD033	Wisc Central	66	3	0	0	0	0.00	0.00	0.00
RSK021	Wisc Central	66	683	41	382	47126	69.00	0.56	123.37
SPR021	Wisc Central	66	761	29	227	35679	46.88	0.30	157.18
WND081	Wisc Central	66	269	13	510	41049	152.60	1.90	80.49
ALC021	Wisc South	67	395	19	52	6946	17.58	0.13	133.58
ALC022	Wisc South	67	224	3	19	2567	11.46	0.08	135.11
BGR020	Wisc South	67	0	0	0	0	0.00	0.00	0.00
BLA021	Wisc South	67	683	18	30	2742	4.01	0.04	91.40
BLA022	Wisc South	67	17	1	17	442	26.00	1.00	26.00
BLA023	Wisc South	67	556	10	209	50695	91.18	0.38	242.56
CAT021	Wisc South	67	494	28	933	73473	148.73	1.89	78.75
CPM021	Wisc South	67	0	0	0	0	0.00	0.00	0.00
CPM022	Wisc South	67	5	1	5	310	62.00	1.00	62.00
CPM023	Wisc South	67	6	8	18	4553	758.83	3.00	252.94
CPM024	Wisc South	67	399	5	801	213118	534.13	2.01	266.06
CPM025	Wisc South	67	225	4	451	120642	536.19	2.00	267.50
CPM026	Wisc South	67	401	4	817	214869	535.83	2.04	263.00
CPM032	Wisc South	67	618	3	1237	329642	533.40	2.00	266.49
CPM033	Wisc South	67	393	7	794	210192	534.84	2.02	264.73
CPM034	Wisc South	67	52	2	104	27716	533.00	2.00	266.50
CPM035	Wisc South	67	108	5	244	58846	544.87	2.26	241.17
CSH021	Wisc South	67	121	12	392	77526	640.71	3.24	197.77
CSH022	Wisc South	67	434	24	1217	260822	600.97	2.80	214.32
CVA021	Wisc South	67	671	18	95	11572	17.25	0.14	121.81
CVA022	Wisc South	67	378	18	321	53429	141.35	0.85	166.45

Xcel Energy - Wisconsin Year-End Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	6301	300259	48207074	206.68	1.29	160.55
ETK021	Wisc South	67	338	4	142	32173	95.19	0.42	226.57
GAL021	Wisc South	67	1269	25	965	99366	78.30	0.76	102.97
GVA021	Wisc South	67	323	13	58	3908	12.10	0.18	67.38
HAF001	Wisc South	67	110	1	1	27	0.25	0.01	27.00
MER021	Wisc South	67	763	11	819	19082	25.01	1.07	23.30
MLS021	Wisc South	67	520	8	544	22554	43.37	1.05	41.46
MLS022	Wisc South	67	0	0	0	0	0.00	0.00	0.00
RKL021	Wisc South	67	743	28	260	38205	51.42	0.35	146.94
SPA021	Wisc South	67	471	13	267	50453	107.12	0.57	188.96
SPA022	Wisc South	67	1454	16	184	18046	12.41	0.13	98.08
SPA031	Wisc South	67	1547	11	64	6395	4.13	0.04	99.92
SPA032	Wisc South	67	1796	51	441	58404	32.52	0.25	132.44
SPA033	Wisc South	67	0	0	0	0	0.00	0.00	0.00
TMU001	Wisc South	67	0	0	0	0	0.00	0.00	0.00
TRE021	Wisc South	67	18	0	0	0	0.00	0.00	0.00
VIR002	Wisc South	67	499	2	2	143	0.29	0.00	71.50
VIR003	Wisc South	67	905	7	113	24955	27.57	0.12	220.84
VIR061	Wisc South	67	1340	24	649	43981	32.82	0.48	67.77
WBY171	Wisc South	67	0	0	0	0	0.00	0.00	0.00
WHH022	Wisc South	67	562	19	92	18098	32.20	0.16	196.72
WHH023	Wisc South	67	752	15	156	24978	33.22	0.21	160.12
WSM081	Wisc South	67	1287	45	1093	282437	219.45	0.85	258.41
WSM091	Wisc South	67	1991	40	786	66315	33.31	0.39	84.37
WSM092	Wisc South	67	1098	9	52	2710	2.47	0.05	52.12
COU061	Wisc South	68	1570	22	2083	62093	39.55	1.33	29.81
COU062	Wisc South	68	1377	12	273	20012	14.53	0.20	73.30
COU068	Wisc South	68	1876	24	478	52117	27.78	0.25	109.03
COU069	Wisc South	68	471	6	51	2555	5.42	0.11	50.10
COU071	Wisc South	68	1333	14	353	27910	20.94	0.26	79.07
COU077	Wisc South	68	1795	19	493	109668	61.10	0.27	222.45
COU078	Wisc South	68	1212	17	5001	288416	237.97	4.13	57.67
COU079	Wisc South	68	547	14	1265	18824	34.41	2.31	14.88
FEN061	Wisc South	68	1183	26	233	15601	13.19	0.20	66.96
FEN062	Wisc South	68	482	7	74	16243	33.70	0.15	219.50
FEN063	Wisc South	68	597	0	0	0	0.00	0.00	0.00
FEN071	Wisc South	68	0	0	0	0	0.00	0.00	0.00
FEN072	Wisc South	68	840	5	865	75172	89.49	1.03	86.90
FEN073	Wisc South	68	957	17	1115	111272	116.27	1.17	99.80
GAS681	Wisc South	68	23	0	0	0	0.00	0.00	0.00
GAS68A	Wisc South	68	2	0	0	0	0.00	0.00	0.00
GAS68B	Wisc South	68	0	0	0	0	0.00	0.00	0.00
GAS68C	Wisc South	68	0	0	0	0	0.00	0.00	0.00
GEN197	Wisc South	68	744	16	116	11825	15.89	0.16	101.94
GEN198	Wisc South	68	274	6	595	92000	335.77	2.17	154.62
HLA062	Wisc South	68	1439	9	92	12258	8.52	0.06	133.24
HLA063	Wisc South	68	0	0	0	0	0.00	0.00	0.00
HLA071	Wisc South	68	1223	15	1595	223694	182.91	1.30	140.25

Xcel Energy - Wisconsin Year-End Feeder Reliability
All Levels Including All Weather Conditions

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	6301	300259	48207074	206.68	1.29	160.55
LAX000	Wisc South	68	36	0	0	0	0.00	0.00	0.00
LAX062	Wisc South	68	1835	14	2322	78473	42.76	1.27	33.80
LAX063	Wisc South	68	1481	9	60	6553	4.42	0.04	109.22
LAX065	Wisc South	68	941	2	2	78	0.08	0.00	39.00
LAX067	Wisc South	68	789	5	22	4107	5.21	0.03	186.68
LAX074	Wisc South	68	638	6	47	1560	2.45	0.07	33.19
LAX075	Wisc South	68	1615	14	274	17517	10.85	0.17	63.93
LAX076	Wisc South	68	1153	9	39	2909	2.52	0.03	74.59
LAX077	Wisc South	68	268	3	19	647	2.41	0.07	34.05
MAF061	Wisc South	68	745	13	146	18319	24.59	0.20	125.47
MAF062	Wisc South	68	51	2	3	114	2.24	0.06	38.00
MAF063	Wisc South	68	1543	12	203	9404	6.09	0.13	46.33
MAF071	Wisc South	68	1064	18	2462	136820	128.59	2.31	55.57
MAF072	Wisc South	68	664	16	882	61941	93.28	1.33	70.23
MAF073	Wisc South	68	368	3	399	23117	62.82	1.08	57.94
ONA061	Wisc South	68	2286	19	420	35274	15.43	0.18	83.99
ONA062	Wisc South	68	938	16	1190	233626	249.07	1.27	196.32
SWC061	Wisc South	68	355	3	247	124433	350.52	0.70	503.78
SWC062	Wisc South	68	12	0	0	0	0.00	0.00	0.00
SWC071	Wisc South	68	257	1	15	690	2.68	0.06	46.00
SWC072	Wisc South	68	1184	8	175	9152	7.73	0.15	52.30
			233246	6301	300259	48207074	206.68	1.29	160.55

TAB 1.5

ALL: Feeder Level, Storm Normalized

Xcel Energy - Wisconsin Year End Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	4718	226983	28102518	120.48	0.97	123.81
AMY001	Wisc North	60	558	2	568	9600	17.20	1.02	16.90
BAY021	Wisc North	60	813	23	1268	218616	268.90	1.56	172.41
BEA414	Wisc North	60	850	33	730	168869	198.67	0.86	231.33
BEA415	Wisc North	60	386	8	455	75353	195.22	1.18	165.61
CLL081	Wisc North	60	504	11	172	23127	45.89	0.34	134.46
CLL082	Wisc North	60	406	4	4	705	1.74	0.01	176.25
CUM081	Wisc North	60	229	7	466	35448	154.79	2.03	76.07
CUM082	Wisc North	60	101	5	66	4799	47.51	0.65	72.71
ELL021	Wisc North	60	1044	17	219	23564	22.57	0.21	107.60
ELL022	Wisc North	60	319	5	5	802	2.51	0.02	160.40
GMT021	Wisc North	60	198	5	258	37403	188.90	1.30	144.97
GST021	Wisc North	60	410	11	636	23438	57.17	1.55	36.85
GST023	Wisc North	60	578	16	205	13699	23.70	0.35	66.82
KIN081	Wisc North	60	551	16	36	2335	4.24	0.07	64.86
LKC081	Wisc North	60	1266	46	1242	186806	147.56	0.98	150.41
LUK021	Wisc North	60	1028	26	279	24722	24.05	0.27	88.61
OPK010	Wisc North	60	348	6	11	1629	4.68	0.03	148.09
OPK011	Wisc North	60	9	0	0	0	0.00	0.00	0.00
OSC021	Wisc North	60	1243	24	2829	112717	90.68	2.28	39.84
OSC022	Wisc North	60	706	17	926	40589	57.49	1.31	43.83
OSC031	Wisc North	60	62	2	65	1698	27.39	1.05	26.12
OSC032	Wisc North	60	0	0	0	0	0.00	0.00	0.00
PRE021	Wisc North	60	1238	29	1818	204994	165.58	1.47	112.76
PRE022	Wisc North	60	721	22	389	35849	49.72	0.54	92.16
RIC081	Wisc North	60	2102	65	1888	458108	217.94	0.90	242.64
RIC082	Wisc North	60	4	0	0	0	0.00	0.00	0.00
RSH081	Wisc North	60	2268	26	306	43103	19.00	0.13	140.86
RSH091	Wisc North	60	958	26	651	73882	77.12	0.68	113.49
RSH092	Wisc North	60	327	7	21	3574	10.93	0.06	170.19
SCF024	Wisc North	60	224	15	461	25048	111.82	2.06	54.33
SCF025	Wisc North	60	992	20	2593	134961	136.05	2.61	52.05
TUR021	Wisc North	60	299	3	12	1253	4.19	0.04	104.42
TUR022	Wisc North	60	325	2	24	2948	9.07	0.07	122.83
TWT081	Wisc North	60	1158	30	2793	258212	222.98	2.41	92.45
WLR081	Wisc North	60	1737	20	953	51251	29.51	0.55	53.78
WLR082	Wisc North	60	4784	62	2023	383192	80.10	0.42	189.42
WLR091	Wisc North	60	2552	17	2678	270455	105.98	1.05	100.99
WLR092	Wisc North	60	3783	49	1489	222231	58.74	0.39	149.25
BIR021	Wisc North	61	951	39	678	105994	111.46	0.71	156.33
BIR022	Wisc North	61	578	16	57	7421	12.84	0.10	130.19
BMU021	Wisc North	61	0	0	0	0	0.00	0.00	0.00
CAB021	Wisc North	61	462	22	85	8318	18.00	0.18	97.86
CAB022	Wisc North	61	381	10	122	11030	28.95	0.32	90.41
CFO001	Wisc North	61	3	0	0	0	0.00	0.00	0.00
CMR021	Wisc North	61	1119	24	1272	42634	38.10	1.14	33.52
CON021	Wisc North	61	0	26	820	85527	0.00	0.00	104.30
DRM021	Wisc North	61	167	3	21	970	5.81	0.13	46.19

Xcel Energy - Wisconsin Year End Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	4718	226983	28102518	120.48	0.97	123.81
DRS211	Wisc North	61	109	5	165	27654	253.71	1.51	167.60
DRS212	Wisc North	61	611	4	81	6996	11.45	0.13	86.37
EWA001	Wisc North	61	3	2	6	444	148.00	2.00	74.00
FIN021	Wisc North	61	659	11	126	11141	16.91	0.19	88.42
FIN022	Wisc North	61	2000	63	2708	206377	103.19	1.35	76.21
HWD021	Wisc North	61	556	18	422	32847	59.08	0.76	77.84
HWD022	Wisc North	61	677	12	418	31394	46.37	0.62	75.11
HWK021	Wisc North	61	224	5	54	5478	24.46	0.24	101.44
LDP001	Wisc North	61	0	0	0	0	0.00	0.00	0.00
OPY081	Wisc North	61	615	26	520	137907	224.24	0.85	265.21
PMP001	Wisc North	61	6	0	0	0	0.00	0.00	0.00
POK061	Wisc North	61	791	14	936	32577	41.18	1.18	34.80
POK062	Wisc North	61	890	8	899	23967	26.93	1.01	26.66
RCL021	Wisc North	61	51	2	102	867	17.00	2.00	8.50
RCL029	Wisc North	61	0	0	0	0	0.00	0.00	0.00
RCL031	Wisc North	61	1381	44	6625	251846	182.36	4.80	38.01
RCL039	Wisc North	61	0	0	0	0	0.00	0.00	0.00
RID081	Wisc North	61	539	21	678	52968	98.27	1.26	78.12
RID082	Wisc North	61	742	19	123	20762	27.98	0.17	168.80
SLA001	Wisc North	61	3	1	3	270	90.00	1.00	90.00
SLD021	Wisc North	61	0	7	151	30907	0.00	0.00	204.68
SND021	Wisc North	61	2555	128	11314	1225221	479.54	4.43	108.29
SPN001	Wisc North	61	0	0	0	0	0.00	0.00	0.00
TAD021	Wisc North	61	345	10	17	1210	3.51	0.05	71.18
THA001	Wisc North	61	0	0	0	0	0.00	0.00	0.00
TRL081	Wisc North	61	822	30	4715	873007	1062.05	5.74	185.16
TRL082	Wisc North	61	363	19	1812	344666	949.49	4.99	190.21
WDM081	Wisc North	61	758	30	3071	256006	337.74	4.05	83.36
WTH001	Wisc North	61	0	0	0	0	0.00	0.00	0.00
WTL061	Wisc North	61	1288	33	1989	513339	398.56	1.54	258.09
WTL062	Wisc North	61	1116	40	1779	556555	498.71	1.59	312.85
YLR081	Wisc North	61	3	1	1	310	103.33	0.33	310.00
YLR082	Wisc North	61	1089	15	118	14286	13.12	0.11	121.07
AMC001	Wisc North	62	3	1	3	198	66.00	1.00	66.00
AMC002	Wisc North	62	3	0	0	0	0.00	0.00	0.00
BAV001	Wisc North	62	722	12	97	5919	8.20	0.13	61.02
BFT061	Wisc North	62	581	12	746	61705	106.20	1.28	82.71
BFT062	Wisc North	62	640	5	29	1349	2.11	0.05	46.52
BKD021	Wisc North	62	293	16	344	14341	48.95	1.17	41.69
BNT021	Wisc North	62	472	17	186	59901	126.91	0.39	322.05
BYF021	Wisc North	62	2214	75	3033	505028	228.11	1.37	166.51
CRN001	Wisc North	62	118	1	52	13728	116.34	0.44	264.00
CTA021	Wisc North	62	316	8	94	13901	43.99	0.30	147.88
FAY001	Wisc North	62	256	0	0	0	0.00	0.00	0.00
FLB010	Wisc North	62	3	0	0	0	0.00	0.00	0.00
GAS62I	Wisc North	62	0	0	0	0	0.00	0.00	0.00
GAS62S	Wisc North	62	4	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year End Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	4718	226983	28102518	120.48	0.97	123.81
GDN021	Wisc North	62	420	0	0	0	0.00	0.00	0.00
GRV021	Wisc North	62	105	0	0	0	0.00	0.00	0.00
HER001	Wisc North	62	142	2	2	340	2.39	0.01	170.00
HWY021	Wisc North	62	3	0	0	0	0.00	0.00	0.00
INO001	Wisc North	62	0	0	0	0	0.00	0.00	0.00
LPA001	Wisc North	62	3	0	0	0	0.00	0.00	0.00
MLN001	Wisc North	62	595	8	630	117011	196.66	1.06	185.73
MNR021	Wisc North	62	95	11	33	3978	41.87	0.35	120.55
MNR022	Wisc North	62	110	1	1	38	0.35	0.01	38.00
MSE021	Wisc North	62	29	0	0	0	0.00	0.00	0.00
NFO021	Wisc North	62	1062	33	456	34874	32.84	0.43	76.48
NFO031	Wisc North	62	1328	30	518	173848	130.91	0.39	335.61
OGE021	Wisc North	62	172	6	177	10459	60.81	1.03	59.09
OLU021	Wisc North	62	95	3	3	482	5.07	0.03	160.67
PHL021	Wisc North	62	743	21	99	8796	11.84	0.13	88.85
PHL031	Wisc North	62	1003	28	611	99705	99.41	0.61	163.18
PHL032	Wisc North	62	3	0	0	0	0.00	0.00	0.00
PRN021	Wisc North	62	776	31	2092	195339	251.73	2.70	93.37
PTW001	Wisc North	62	312	8	77	13294	42.61	0.25	172.65
RBL021	Wisc North	62	138	7	197	14768	107.01	1.43	74.96
RBL022	Wisc North	62	176	6	180	10450	59.38	1.02	58.06
RBL023	Wisc North	62	660	21	1120	59247	89.77	1.70	52.90
SOE001	Wisc North	62	511	1	1	61	0.12	0.00	61.00
SQN001	Wisc North	62	6	16	96	33540	5590.00	16.00	349.38
SST061	Wisc North	62	537	10	611	37494	69.82	1.14	61.36
SST062	Wisc North	62	586	14	669	45537	77.71	1.14	68.07
SVN001	Wisc North	62	293	1	6	606	2.07	0.02	101.00
TST001	Wisc North	62	300	1	300	6900	23.00	1.00	23.00
VAV001	Wisc North	62	284	1	1	36	0.13	0.00	36.00
WBI021	Wisc North	62	3	0	0	0	0.00	0.00	0.00
WBN021	Wisc North	62	836	10	19	1486	1.78	0.02	78.21
WBN022	Wisc North	62	446	12	261	50103	112.34	0.59	191.97
WHR021	Wisc North	62	150	8	418	55866	372.44	2.79	133.65
WHR022	Wisc North	62	226	9	233	33994	150.42	1.03	145.90
WHR023	Wisc North	62	241	13	71	2413	10.01	0.29	33.99
ALN001	Wisc North	63	9	0	0	0	0.00	0.00	0.00
AYR021	Wisc North	63	831	9	1423	153335	184.52	1.71	107.75
AYR022	Wisc North	63	893	30	1487	164578	184.30	1.67	110.68
BES021	Wisc North	63	1065	19	271	17340	16.28	0.25	63.99
BES022	Wisc North	63	1084	10	144	7829	7.22	0.13	54.37
BLD021	Wisc North	63	639	19	494	84524	132.28	0.77	171.10
BRA001	Wisc North	63	1	0	0	0	0.00	0.00	0.00
CNR001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
GAS63E	Wisc North	63	135	0	0	0	0.00	0.00	0.00
GAS63W	Wisc North	63	404	0	0	0	0.00	0.00	0.00
GLA021	Wisc North	63	75	5	164	28872	384.96	2.19	176.05
GOG001	Wisc North	63	3	1	3	558	186.00	1.00	186.00

Xcel Energy - Wisconsin Year End Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	4718	226983	28102518	120.48	0.97	123.81
HGN021	Wisc North	63	6	0	0	0	0.00	0.00	0.00
HUR021	Wisc North	63	386	7	42	4700	12.18	0.11	111.90
HUR022	Wisc North	63	866	28	503	66770	77.10	0.58	132.74
IHD021	Wisc North	63	326	14	1086	159497	489.25	3.33	146.87
IRB001	Wisc North	63	148	2	150	11208	75.73	1.01	74.72
IRP001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
IRP002	Wisc North	63	0	0	0	0	0.00	0.00	0.00
IRW001	Wisc North	63	344	2	40	4958	14.41	0.12	123.95
IRW002	Wisc North	63	566	4	13	1149	2.03	0.02	88.38
IRW003	Wisc North	63	525	2	7	471	0.90	0.01	67.29
IRW004	Wisc North	63	0	0	0	0	0.00	0.00	0.00
IRW005	Wisc North	63	315	7	55	3719	11.81	0.17	67.62
JKS021	Wisc North	63	4	0	0	0	0.00	0.00	0.00
LUP001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
MCO001	Wisc North	63	203	3	205	21476	105.79	1.01	104.76
MCO021	Wisc North	63	397	16	851	106097	267.25	2.14	124.67
MEY021	Wisc North	63	3	0	0	0	0.00	0.00	0.00
MID001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
MNT001	Wisc North	63	838	8	297	45998	54.89	0.35	154.88
MRC021	Wisc North	63	114	12	292	30815	270.31	2.56	105.53
MRC022	Wisc North	63	1537	77	6257	621908	404.62	4.07	99.39
NRA001	Wisc North	63	470	3	9	729	1.55	0.02	81.00
NSI001	Wisc North	63	631	3	671	27176	43.07	1.06	40.50
OJB021	Wisc North	63	5	0	0	0	0.00	0.00	0.00
PSI021	Wisc North	63	1275	91	8345	970477	761.16	6.55	116.29
RTL021	Wisc North	63	1048	67	5541	1142993	1090.64	5.29	206.28
RTL022	Wisc North	63	926	63	3924	640421	691.60	4.24	163.21
SAX001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
SUP021	Wisc North	63	152	14	929	124239	817.36	6.11	133.73
SXF021	Wisc North	63	204	13	609	62808	307.88	2.99	103.13
TLA001	Wisc North	63	1	1	1	122	122.00	1.00	122.00
TWN021	Wisc North	63	697	19	861	45720	65.60	1.24	53.10
TWN022	Wisc North	63	683	30	1304	93287	136.58	1.91	71.54
UPS001	Wisc North	63	45	1	45	3375	75.00	1.00	75.00
WAF001	Wisc North	63	3	0	0	0	0.00	0.00	0.00
WDB001	Wisc North	63	7	0	0	0	0.00	0.00	0.00
BYD001	Wisc Central	64	318	5	5	446	1.40	0.02	89.20
CTS021	Wisc Central	64	730	7	243	18896	25.88	0.33	77.76
GLM021	Wisc Central	64	480	18	42	7380	15.38	0.09	175.71
LKH010	Wisc Central	64	3	0	0	0	0.00	0.00	0.00
LKH020	Wisc Central	64	3	0	0	0	0.00	0.00	0.00
LOY021	Wisc Central	64	966	21	128	16316	16.89	0.13	127.47
LOY022	Wisc Central	64	757	16	803	115340	152.36	1.06	143.64
LYN021	Wisc Central	64	255	9	75	9709	38.07	0.29	129.45
LYN022	Wisc Central	64	419	9	63	6856	16.36	0.15	108.83
MFN021	Wisc Central	64	0	0	0	0	0.00	0.00	0.00
MFS021	Wisc Central	64	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year End Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	4718	226983	28102518	120.48	0.97	123.81
MFW021	Wisc Central	64	0	0	0	0	0.00	0.00	0.00
NLV021	Wisc Central	64	987	5	57	3041	3.08	0.06	53.35
NLV031	Wisc Central	64	589	21	69	10274	17.44	0.12	148.90
NLV032	Wisc Central	64	545	7	41	3890	7.14	0.08	94.88
OWN021	Wisc Central	64	1246	40	1198	542204	435.16	0.96	452.59
SPE021	Wisc Central	64	1026	16	24	5381	5.24	0.02	224.21
STA081	Wisc Central	64	199	1	23	1610	8.09	0.12	70.00
STA082	Wisc Central	64	608	10	67	9604	15.80	0.11	143.34
STA083	Wisc Central	64	803	11	43	2700	3.36	0.05	62.79
TCN081	Wisc Central	64	2068	42	4188	1757829	850.01	2.03	419.73
TCN091	Wisc Central	64	949	44	2837	804813	848.06	2.99	283.68
TCN092	Wisc Central	64	2087	33	5844	1973522	945.63	2.80	337.70
TRP021	Wisc Central	64	512	36	127	28915	56.47	0.25	227.68
TRP022	Wisc Central	64	917	6	184	7232	7.89	0.20	39.30
AUG021	Wisc Central	65	330	8	20	2077	6.29	0.06	103.85
AUG022	Wisc Central	65	691	5	25	1823	2.64	0.04	72.92
BLR020	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
CAD001	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
CAD061	Wisc Central	65	54	3	3	356	6.59	0.06	118.67
CHF021	Wisc Central	65	667	6	43	1224	1.84	0.06	28.47
CHF022	Wisc Central	65	1672	27	2105	290141	173.53	1.26	137.83
CHF023	Wisc Central	65	818	13	82	7627	9.32	0.10	93.01
CHF024	Wisc Central	65	1366	21	853	75878	55.55	0.62	88.95
CHF031	Wisc Central	65	432	3	22	664	1.54	0.05	30.18
CHF032	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
CHF033	Wisc Central	65	562	7	627	82509	146.81	1.12	131.59
CHF034	Wisc Central	65	209	0	0	0	0.00	0.00	0.00
COR197	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
COR198	Wisc Central	65	3	0	0	0	0.00	0.00	0.00
EGP211	Wisc Central	65	1232	44	1573	164604	133.61	1.28	104.64
EGP212	Wisc Central	65	81	9	9	1018	12.57	0.11	113.11
ELK001	Wisc Central	65	421	17	293	69037	163.98	0.70	235.62
ELS021	Wisc Central	65	421	5	32	7366	17.50	0.08	230.19
ELS022	Wisc Central	65	473	3	20	940	1.99	0.04	47.00
ELS023	Wisc Central	65	15	0	0	0	0.00	0.00	0.00
ELS024	Wisc Central	65	94	2	16	7865	83.67	0.17	491.56
ELS027	Wisc Central	65	2114	26	1053	132745	62.79	0.50	126.06
ELS031	Wisc Central	65	744	16	1369	95313	128.11	1.84	69.62
ELS032	Wisc Central	65	1188	5	1258	77020	64.83	1.06	61.22
ELS033	Wisc Central	65	1491	9	1576	93727	62.86	1.06	59.47
ELS034	Wisc Central	65	311	13	985	69567	223.69	3.17	70.63
FLC097	Wisc Central	65	623	14	361	57083	91.63	0.58	158.12
GAS651	Wisc Central	65	2	0	0	0	0.00	0.00	0.00
HAL062	Wisc Central	65	1637	25	357	51039	31.18	0.22	142.97
HAL063	Wisc Central	65	1486	22	316	29930	20.14	0.21	94.72
HAL072	Wisc Central	65	1144	21	161	7959	6.96	0.14	49.43
HAL073	Wisc Central	65	417	6	89	4255	10.20	0.21	47.81

Xcel Energy - Wisconsin Year End Feeder Reliability
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Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	4718	226983	28102518	120.48	0.97	123.81
HYD031	Wisc Central	65	55	1	1	69	1.25	0.02	69.00
HYD032	Wisc Central	65	2687	67	4862	217967	81.12	1.81	44.83
HYD211	Wisc Central	65	42	0	0	0	0.00	0.00	0.00
HYD212	Wisc Central	65	71	1	1	324	4.56	0.01	324.00
JEF211	Wisc Central	65	106	2	2	145	1.37	0.02	72.50
JEF221	Wisc Central	65	74	3	31	2542	34.35	0.42	82.00
JIM021	Wisc Central	65	359	11	222	95664	266.47	0.62	430.92
LON061	Wisc Central	65	1328	10	140	10511	7.91	0.11	75.08
LON062	Wisc Central	65	483	6	713	64509	133.56	1.48	90.48
LON063	Wisc Central	65	216	6	27	1672	7.74	0.13	61.93
LON071	Wisc Central	65	495	12	380	62484	126.23	0.77	164.43
LON072	Wisc Central	65	738	7	76	11309	15.32	0.10	148.80
MAD061	Wisc Central	65	312	6	403	14899	47.75	1.29	36.97
MAD062	Wisc Central	65	928	12	1154	53692	57.86	1.24	46.53
MAD071	Wisc Central	65	733	4	748	26003	35.47	1.02	34.76
MAD072	Wisc Central	65	1446	22	2335	79333	54.86	1.61	33.98
NAP021	Wisc Central	65	520	11	23	2218	4.27	0.04	96.43
NAP022	Wisc Central	65	1437	18	1808	226848	157.86	1.26	125.47
OTC021	Wisc Central	65	553	12	1555	95738	173.12	2.81	61.57
OTC022	Wisc Central	65	1592	18	1833	103871	65.25	1.15	56.67
OTC023	Wisc Central	65	1376	9	2916	96773	70.33	2.12	33.19
OTC031	Wisc Central	65	1757	34	3965	326916	186.06	2.26	82.45
OTC032	Wisc Central	65	1484	13	1726	98359	66.28	1.16	56.99
PRS563	Wisc Central	65	3	1	1	18	6.00	0.33	18.00
PRS565	Wisc Central	65	3	0	0	0	0.00	0.00	0.00
RVW021	Wisc Central	65	82	1	1	86	1.05	0.01	86.00
SHW021	Wisc Central	65	262	6	122	13392	51.11	0.47	109.77
STE471	Wisc Central	65	3	0	0	0	0.00	0.00	0.00
STE472	Wisc Central	65	3	0	0	0	0.00	0.00	0.00
STM021	Wisc Central	65	522	13	571	55212	105.77	1.09	96.69
STM022	Wisc Central	65	1000	12	1091	109810	109.81	1.09	100.65
SUM211	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
SUM212	Wisc Central	65	0	0	0	0	0.00	0.00	0.00
TRX021	Wisc Central	65	1046	26	1323	71594	68.45	1.26	54.11
TRX022	Wisc Central	65	748	13	193	18876	25.24	0.26	97.80
TRX023	Wisc Central	65	644	1	1	140	0.22	0.00	140.00
TRX031	Wisc Central	65	77	2	2	202	2.62	0.03	101.00
TRX032	Wisc Central	65	1859	23	388	27575	14.83	0.21	71.07
TRX033	Wisc Central	65	381	2	13	855	2.24	0.03	65.77
USR533	Wisc Central	65	6	0	0	0	0.00	0.00	0.00
USR534	Wisc Central	65	9	0	0	0	0.00	0.00	0.00
WIB569	Wisc Central	65	1302	41	705	73782	56.67	0.54	104.66
ALM559	Wisc Central	66	507	12	1251	84267	166.21	2.47	67.36
ALM560	Wisc Central	66	15	2	30	1890	126.00	2.00	63.00
ARK081	Wisc Central	66	85	8	35	1607	18.91	0.41	45.91
ARK082	Wisc Central	66	598	21	493	29356	49.09	0.82	59.55
CEF081	Wisc Central	66	836	16	296	18645	22.30	0.35	62.99

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	Grand Total:		233246	4718	226983	28102518	120.48	0.97	123.81
COC021	Wisc Central	66	409	5	476	10035	24.54	1.16	21.08
DUR021	Wisc Central	66	482	6	33	1540	3.20	0.07	46.67
DUR022	Wisc Central	66	1021	31	776	90676	88.81	0.76	116.85
EGA021	Wisc Central	66	117	6	6	346	2.96	0.05	57.67
EGA022	Wisc Central	66	359	10	23	2323	6.47	0.06	101.00
ELM021	Wisc Central	66	224	11	57	6970	31.12	0.25	122.28
ELM022	Wisc Central	66	596	9	37	3823	6.41	0.06	103.32
HAY081	Wisc Central	66	655	9	372	29658	45.28	0.57	79.73
HAY082	Wisc Central	66	1713	20	5620	636811	371.75	3.28	113.31
MDR021	Wisc Central	66	147	14	52	6555	44.59	0.35	126.06
MEN021	Wisc Central	66	900	28	375	40483	44.98	0.42	107.95
MEN022	Wisc Central	66	1581	26	571	67354	42.60	0.36	117.96
MEN023	Wisc Central	66	338	1	1	24	0.07	0.00	24.00
MEN031	Wisc Central	66	25	1	1	51	2.04	0.04	51.00
MEN032	Wisc Central	66	1767	26	1028	83532	47.27	0.58	81.26
NEL021	Wisc Central	66	247	6	996	64795	262.33	4.03	65.06
PEP021	Wisc Central	66	893	44	2397	183975	206.02	2.68	76.75
RCD022	Wisc Central	66	105	4	20	1702	16.21	0.19	85.10
RCD023	Wisc Central	66	906	23	369	29726	32.81	0.41	80.56
RCD024	Wisc Central	66	123	1	1	267	2.17	0.01	267.00
RCD031	Wisc Central	66	3	0	0	0	0.00	0.00	0.00
RCD032	Wisc Central	66	6	0	0	0	0.00	0.00	0.00
RCD033	Wisc Central	66	3	0	0	0	0.00	0.00	0.00
RSK021	Wisc Central	66	683	25	84	10808	15.82	0.12	128.67
SPR021	Wisc Central	66	761	20	201	29931	39.33	0.26	148.91
WND081	Wisc Central	66	269	8	499	39605	147.23	1.86	79.37
ALC021	Wisc South	67	395	19	52	6946	17.58	0.13	133.58
ALC022	Wisc South	67	224	3	19	2567	11.46	0.08	135.11
BGR020	Wisc South	67	0	0	0	0	0.00	0.00	0.00
BLA021	Wisc South	67	683	12	24	2180	3.19	0.04	90.83
BLA022	Wisc South	67	17	1	17	442	26.00	1.00	26.00
BLA023	Wisc South	67	556	10	209	50695	91.18	0.38	242.56
CAT021	Wisc South	67	494	24	809	60699	122.87	1.64	75.03
CPM021	Wisc South	67	0	0	0	0	0.00	0.00	0.00
CPM022	Wisc South	67	5	1	5	310	62.00	1.00	62.00
CPM023	Wisc South	67	6	7	17	4420	736.67	2.83	260.00
CPM024	Wisc South	67	399	3	799	212776	533.27	2.00	266.30
CPM025	Wisc South	67	225	3	450	120405	535.13	2.00	267.57
CPM026	Wisc South	67	401	4	817	214869	535.83	2.04	263.00
CPM032	Wisc South	67	618	3	1237	329642	533.40	2.00	266.49
CPM033	Wisc South	67	393	7	794	210192	534.84	2.02	264.73
CPM034	Wisc South	67	52	2	104	27716	533.00	2.00	266.50
CPM035	Wisc South	67	108	5	244	58846	544.87	2.26	241.17
CSH021	Wisc South	67	121	10	280	63982	528.78	2.31	228.51
CSH022	Wisc South	67	434	20	1198	258042	594.57	2.76	215.39
CVA021	Wisc South	67	671	16	93	9995	14.90	0.14	107.47
CVA022	Wisc South	67	378	14	316	52682	139.37	0.84	166.72

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All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	4718	226983	28102518	120.48	0.97	123.81
ETK021	Wisc South	67	338	2	2	142	0.42	0.01	71.00
GAL021	Wisc South	67	1269	20	834	80410	63.36	0.66	96.41
GVA021	Wisc South	67	323	11	56	3780	11.70	0.17	67.50
HAF001	Wisc South	67	110	1	1	27	0.25	0.01	27.00
MER021	Wisc South	67	763	10	818	18875	24.74	1.07	23.07
MLS021	Wisc South	67	520	7	543	22434	43.14	1.04	41.31
MLS022	Wisc South	67	0	0	0	0	0.00	0.00	0.00
RKL021	Wisc South	67	743	20	126	13449	18.10	0.17	106.74
SPA021	Wisc South	67	471	13	267	50453	107.12	0.57	188.96
SPA022	Wisc South	67	1454	14	182	17946	12.34	0.13	98.60
SPA031	Wisc South	67	1547	11	64	6395	4.13	0.04	99.92
SPA032	Wisc South	67	1796	47	427	57076	31.78	0.24	133.67
SPA033	Wisc South	67	0	0	0	0	0.00	0.00	0.00
TMU001	Wisc South	67	0	0	0	0	0.00	0.00	0.00
TRE021	Wisc South	67	18	0	0	0	0.00	0.00	0.00
VIR002	Wisc South	67	499	1	1	59	0.12	0.00	59.00
VIR003	Wisc South	67	905	7	113	24955	27.57	0.12	220.84
VIR061	Wisc South	67	1340	16	581	30820	23.00	0.43	53.05
WBY171	Wisc South	67	0	0	0	0	0.00	0.00	0.00
WHH022	Wisc South	67	562	16	89	17828	31.72	0.16	200.31
WHH023	Wisc South	67	752	12	153	24728	32.88	0.20	161.62
WSM081	Wisc South	67	1287	29	479	43729	33.98	0.37	91.29
WSM091	Wisc South	67	1991	29	565	49217	24.72	0.28	87.11
WSM092	Wisc South	67	1098	7	29	1944	1.77	0.03	67.03
COU061	Wisc South	68	1570	17	1711	28573	18.20	1.09	16.70
COU062	Wisc South	68	1377	9	213	10657	7.74	0.15	50.03
COU068	Wisc South	68	1876	23	467	48839	26.03	0.25	104.58
COU069	Wisc South	68	471	5	38	1333	2.83	0.08	35.08
COU071	Wisc South	68	1333	14	353	27910	20.94	0.26	79.07
COU077	Wisc South	68	1795	17	491	109458	60.98	0.27	222.93
COU078	Wisc South	68	1212	15	4984	286724	236.57	4.11	57.53
COU079	Wisc South	68	547	13	1173	16708	30.54	2.14	14.24
FEN061	Wisc South	68	1183	23	219	13937	11.78	0.19	63.64
FEN062	Wisc South	68	482	7	74	16243	33.70	0.15	219.50
FEN063	Wisc South	68	597	0	0	0	0.00	0.00	0.00
FEN071	Wisc South	68	0	0	0	0	0.00	0.00	0.00
FEN072	Wisc South	68	840	4	20	1657	1.97	0.02	82.85
FEN073	Wisc South	68	957	13	126	12203	12.75	0.13	96.85
GAS681	Wisc South	68	23	0	0	0	0.00	0.00	0.00
GAS68A	Wisc South	68	2	0	0	0	0.00	0.00	0.00
GAS68B	Wisc South	68	0	0	0	0	0.00	0.00	0.00
GAS68C	Wisc South	68	0	0	0	0	0.00	0.00	0.00
GEN197	Wisc South	68	744	16	116	11825	15.89	0.16	101.94
GEN198	Wisc South	68	274	3	447	62980	229.85	1.63	140.89
HLA062	Wisc South	68	1439	8	91	12145	8.44	0.06	133.46
HLA063	Wisc South	68	0	0	0	0	0.00	0.00	0.00
HLA071	Wisc South	68	1223	15	1595	223694	182.91	1.30	140.25

Xcel Energy - Wisconsin Year End Feeder Reliability
All Levels Without Major Storms

Feeder	Reg	Div	Custs	# Outs	Cust Ints	Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	4718	226983	28102518	120.48	0.97	123.81
LAX000	Wisc South	68	36	0	0	0	0.00	0.00	0.00
LAX062	Wisc South	68	1835	10	1875	53555	29.19	1.02	28.56
LAX063	Wisc South	68	1481	6	42	1317	0.89	0.03	31.36
LAX065	Wisc South	68	941	1	1	34	0.04	0.00	34.00
LAX067	Wisc South	68	789	4	4	417	0.53	0.01	104.25
LAX074	Wisc South	68	638	5	46	1429	2.24	0.07	31.07
LAX075	Wisc South	68	1615	12	272	17155	10.62	0.17	63.07
LAX076	Wisc South	68	1153	9	39	2909	2.52	0.03	74.59
LAX077	Wisc South	68	268	3	19	647	2.41	0.07	34.05
MAF061	Wisc South	68	745	11	134	16266	21.83	0.18	121.39
MAF062	Wisc South	68	51	2	3	114	2.24	0.06	38.00
MAF063	Wisc South	68	1543	12	203	9404	6.09	0.13	46.33
MAF071	Wisc South	68	1064	16	2447	134332	126.25	2.30	54.90
MAF072	Wisc South	68	664	16	882	61941	93.28	1.33	70.23
MAF073	Wisc South	68	368	3	399	23117	62.82	1.08	57.94
ONA061	Wisc South	68	2286	18	398	31842	13.93	0.17	80.01
ONA062	Wisc South	68	938	13	245	52941	56.44	0.26	216.09
SWC061	Wisc South	68	355	3	247	124433	350.52	0.70	503.78
SWC062	Wisc South	68	12	0	0	0	0.00	0.00	0.00
SWC071	Wisc South	68	257	1	15	690	2.68	0.06	46.00
SWC072	Wisc South	68	1184	4	123	5788	4.89	0.10	47.06
			233246	4718	226983	28102518	120.48	0.97	123.81

TAB 2

List of Worst Performing Circuits

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. In determining the worst performing circuits, storm normalized SAIFI, SAIDI, and CAIDI are used.

Xcel Energy Contact : David A. Clark

TAB 2.1

Worst Performing Feeder And Tap Criteria Development

Xcel Energy
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

TAB 2.2

Worst Performing Feeders

TAB 2.2.1

Worst Performing Feeders
With
>= 250,000 Sustained Customer Minutes

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With >= 250,000 Sustained Customer Minutes

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
TCN092	Wisc Central	64	2087	8	17058	2	4280	1750520	838.77	2.05	409.00
TCN081	Wisc Central	64	2068	1	2068	1	2070	1544220	746.72	1.00	746.00
TCN091	Wisc Central	64	949	2	1894	1	947	626914	660.60	1.00	662.00
HAY082	Wisc Central	66	1713	0	0	1	3404	418692	244.42	1.99	123.00
PSI021	Wisc North	63	1275	0	0	2	2020	294478	230.96	1.58	145.78
COU078	Wisc South	68	1212	2	2418	4	4836	278899	230.11	3.99	57.67
WLR091	Wisc North	60	2552	1	2531	1	2487	258350	101.23	0.97	103.88
CHF022	Wisc Central	65	1672	1	1670	1	1670	235470	140.83	1.00	141.00
RTL021	Wisc North	63	1048	4	4182	1	488	233264	222.58	0.47	478.00
BAY021	Wisc North	60	813	0	0	1	810	182250	224.17	1.00	225.00
RCL031	Wisc North	61	1381	0	0	4	5489	150651	109.09	3.97	27.45
PRE021	Wisc North	60	1238	1	1292	1	1307	132007	106.63	1.06	101.00
AYR022	Wisc North	63	893	0	0	1	890	123710	138.53	1.00	139.00
OTC031	Wisc Central	65	1757	0	0	1	1722	117096	66.65	0.98	68.00
MLN001	Wisc North	62	595	0	0	1	595	113645	191.00	1.00	191.00
MRC022	Wisc North	63	1537	3	4543	1	1517	109224	71.06	0.99	72.00
WDM081	Wisc North	61	758	0	0	1	675	108300	142.88	0.89	160.44
HLA071	Wisc South	68	1223	0	0	1	1218	105966	86.64	1.00	87.00
EGP211	Wisc Central	65	1232	0	0	1	1169	101703	82.55	0.95	87.00
AYR021	Wisc North	63	831	0	0	1	816	98736	118.82	0.98	121.00
OTC023	Wisc Central	65	1376	0	0	2	2746	90618	65.86	2.00	33.00
CHF033	Wisc Central	65	562	0	0	1	559	78819	140.25	0.99	141.00
HYD032	Wisc Central	65	2687	0	0	1	2950	76700	28.54	1.10	26.00
OTC032	Wisc Central	65	1484	1	1466	1	1472	73600	49.60	0.99	50.00
OTC022	Wisc Central	65	1592	0	0	1	1584	68112	42.78	0.99	43.00
TRL082	Wisc North	61	363	0	0	1	362	52490	144.60	1.00	145.00
LAX062	Wisc South	68	1835	1	1840	1	1831	49437	26.94	1.00	27.00
OTC021	Wisc Central	65	553	1	533	2	1077	46339	83.80	1.95	43.03
PRN021	Wisc North	62	776	1	775	1	777	41181	53.07	1.00	53.00
RID081	Wisc North	61	539	0	0	1	534	41012	76.09	0.99	76.80
ELS034	Wisc Central	65	311	1	303	2	601	40132	129.04	1.93	66.78
SST062	Wisc North	62	586	1	585	1	585	38610	65.89	1.00	66.00
GEN198	Wisc South	68	274	0	0	1	273	38493	140.49	1.00	141.00
GMT021	Wisc North	60	198	0	0	2	243	35775	180.68	1.23	147.22
SST061	Wisc North	62	537	1	542	1	542	35772	66.61	1.01	66.00
CUM081	Wisc North	60	229	1	228	1	456	34656	151.34	1.99	76.00
LON062	Wisc Central	65	483	0	0	1	467	33624	69.61	0.97	72.00
TRX021	Wisc Central	65	1046	0	0	1	975	33150	31.69	0.93	34.00
WLR081	Wisc North	60	1737	0	0	1	745	32035	18.44	0.43	43.00
OSC021	Wisc North	60	1243	1	1230	1	1230	30750	24.74	0.99	25.00
TWN021	Wisc North	63	697	0	0	1	698	28618	41.06	1.00	41.00
TWN022	Wisc North	63	683	0	0	1	681	27921	40.88	1.00	41.00
NSI001	Wisc North	63	631	0	0	1	631	25871	41.00	1.00	41.00
MAF071	Wisc South	68	1064	1	1065	1	1065	24495	23.02	1.00	23.00
SXF021	Wisc North	63	204	0	0	1	204	21828	107.00	1.00	107.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With >= 250,000 Sustained Customer Minutes

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
NEL021	Wisc Central	66	247	0	0	1	245	18865	76.38	0.99	77.00
WHR021	Wisc North	62	150	0	0	1	116	18676	124.51	0.77	161.00
DRS211	Wisc North	61	109	0	0	1	49	16660	152.84	0.45	340.00
SUP021	Wisc North	63	152	0	0	1	151	16157	106.30	0.99	107.00
COU079	Wisc South	68	547	1	547	2	1094	12034	22.00	2.00	11.00
COU061	Wisc South	68	1570	1	1564	1	1564	9384	5.98	1.00	6.00
AMY001	Wisc North	60	558	0	0	1	560	8960	16.06	1.00	16.00
TST001	Wisc North	62	300	0	0	1	300	6900	23.00	1.00	23.00
RCL021	Wisc North	61	51	0	0	2	102	867	17.00	2.00	8.50
AMC001	Wisc North	62	3	1	3	1	3	198	66.00	1.00	66.00
ALC021	Wisc South	67	395	0	0	0	0	0	0.00	0.00	0.00
ALC022	Wisc South	67	224	0	0	0	0	0	0.00	0.00	0.00
ALM559	Wisc Central	66	507	0	0	0	0	0	0.00	0.00	0.00
ALM560	Wisc Central	66	15	0	0	0	0	0	0.00	0.00	0.00
ALN001	Wisc North	63	9	0	0	0	0	0	0.00	0.00	0.00
AMC002	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
ARK081	Wisc Central	66	85	0	0	0	0	0	0.00	0.00	0.00
ARK082	Wisc Central	66	598	0	0	0	0	0	0.00	0.00	0.00
AUG021	Wisc Central	65	330	0	0	0	0	0	0.00	0.00	0.00
AUG022	Wisc Central	65	691	0	0	0	0	0	0.00	0.00	0.00
BAV001	Wisc North	62	722	0	0	0	0	0	0.00	0.00	0.00
BEA414	Wisc North	60	850	0	0	0	0	0	0.00	0.00	0.00
BEA415	Wisc North	60	386	0	0	0	0	0	0.00	0.00	0.00
BES021	Wisc North	63	1065	0	0	0	0	0	0.00	0.00	0.00
BES022	Wisc North	63	1084	0	0	0	0	0	0.00	0.00	0.00
BFT061	Wisc North	62	581	0	0	0	0	0	0.00	0.00	0.00
BFT062	Wisc North	62	640	0	0	0	0	0	0.00	0.00	0.00
BGR020	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
BIR021	Wisc North	61	951	0	0	0	0	0	0.00	0.00	0.00
BIR022	Wisc North	61	578	0	0	0	0	0	0.00	0.00	0.00
BKD021	Wisc North	62	293	0	0	0	0	0	0.00	0.00	0.00
BLA021	Wisc South	67	683	0	0	0	0	0	0.00	0.00	0.00
BLA022	Wisc South	67	17	0	0	0	0	0	0.00	0.00	0.00
BLA023	Wisc South	67	556	0	0	0	0	0	0.00	0.00	0.00
BLD021	Wisc North	63	639	0	0	0	0	0	0.00	0.00	0.00
BLR020	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
BMU021	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
BNT021	Wisc North	62	472	2	942	0	0	0	0.00	0.00	0.00
BRA001	Wisc North	63	1	0	0	0	0	0	0.00	0.00	0.00
BYD001	Wisc Central	64	318	0	0	0	0	0	0.00	0.00	0.00
BYF021	Wisc North	62	2214	0	0	0	0	0	0.00	0.00	0.00
CAB021	Wisc North	61	462	0	0	0	0	0	0.00	0.00	0.00
CAB022	Wisc North	61	381	0	0	0	0	0	0.00	0.00	0.00
CAD001	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
CAD061	Wisc Central	65	54	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With >= 250,000 Sustained Customer Minutes

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.16	0.28	124.36
CAT021	Wisc South	67	494	0	0	0	0	0	0.00	0.00	0.00
CEF081	Wisc Central	66	836	0	0	0	0	0	0.00	0.00	0.00
CFO001	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
CHF021	Wisc Central	65	667	0	0	0	0	0	0.00	0.00	0.00
CHF023	Wisc Central	65	818	1	887	0	0	0	0.00	0.00	0.00
CHF024	Wisc Central	65	1366	0	0	0	0	0	0.00	0.00	0.00
CHF031	Wisc Central	65	432	0	0	0	0	0	0.00	0.00	0.00
CHF032	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
CHF034	Wisc Central	65	209	0	0	0	0	0	0.00	0.00	0.00
CLL081	Wisc North	60	504	1	497	0	0	0	0.00	0.00	0.00
CLL082	Wisc North	60	406	0	0	0	0	0	0.00	0.00	0.00
CMR021	Wisc North	61	1119	0	0	0	0	0	0.00	0.00	0.00
CNR001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
COC021	Wisc Central	66	409	0	0	0	0	0	0.00	0.00	0.00
CON021	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
COR197	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
COR198	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
COU062	Wisc South	68	1377	0	0	0	0	0	0.00	0.00	0.00
COU068	Wisc South	68	1876	1	1876	0	0	0	0.00	0.00	0.00
COU069	Wisc South	68	471	0	0	0	0	0	0.00	0.00	0.00
COU071	Wisc South	68	1333	3	3951	0	0	0	0.00	0.00	0.00
COU077	Wisc South	68	1795	0	0	0	0	0	0.00	0.00	0.00
CPM021	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
CPM022	Wisc South	67	5	0	0	0	0	0	0.00	0.00	0.00
CPM023	Wisc South	67	6	0	0	0	0	0	0.00	0.00	0.00
CPM024	Wisc South	67	399	0	0	0	0	0	0.00	0.00	0.00
CPM025	Wisc South	67	225	0	0	0	0	0	0.00	0.00	0.00
CPM026	Wisc South	67	401	0	0	0	0	0	0.00	0.00	0.00
CPM032	Wisc South	67	618	0	0	0	0	0	0.00	0.00	0.00
CPM033	Wisc South	67	393	0	0	0	0	0	0.00	0.00	0.00
CPM034	Wisc South	67	52	0	0	0	0	0	0.00	0.00	0.00
CPM035	Wisc South	67	108	0	0	0	0	0	0.00	0.00	0.00
CRN001	Wisc North	62	118	0	0	0	0	0	0.00	0.00	0.00
CSH021	Wisc South	67	121	0	0	0	0	0	0.00	0.00	0.00
CSH022	Wisc South	67	434	0	0	0	0	0	0.00	0.00	0.00
CTA021	Wisc North	62	316	0	0	0	0	0	0.00	0.00	0.00
CTS021	Wisc Central	64	730	0	0	0	0	0	0.00	0.00	0.00
CUM082	Wisc North	60	101	1	101	0	0	0	0.00	0.00	0.00
CVA021	Wisc South	67	671	1	665	0	0	0	0.00	0.00	0.00
CVA022	Wisc South	67	378	1	375	0	0	0	0.00	0.00	0.00
DRM021	Wisc North	61	167	0	0	0	0	0	0.00	0.00	0.00
DRS212	Wisc North	61	611	0	0	0	0	0	0.00	0.00	0.00
DUR021	Wisc Central	66	482	0	0	0	0	0	0.00	0.00	0.00
DUR022	Wisc Central	66	1021	0	0	0	0	0	0.00	0.00	0.00
EGA021	Wisc Central	66	117	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With >= 250,000 Sustained Customer Minutes

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
EGA022	Wisc Central	66	359	0	0	0	0	0	0.00	0.00	0.00
EGP212	Wisc Central	65	81	0	0	0	0	0	0.00	0.00	0.00
ELK001	Wisc Central	65	421	0	0	0	0	0	0.00	0.00	0.00
ELL021	Wisc North	60	1044	0	0	0	0	0	0.00	0.00	0.00
ELL022	Wisc North	60	319	0	0	0	0	0	0.00	0.00	0.00
ELM021	Wisc Central	66	224	0	0	0	0	0	0.00	0.00	0.00
ELM022	Wisc Central	66	596	0	0	0	0	0	0.00	0.00	0.00
ELS021	Wisc Central	65	421	2	848	0	0	0	0.00	0.00	0.00
ELS022	Wisc Central	65	473	0	0	0	0	0	0.00	0.00	0.00
ELS023	Wisc Central	65	15	0	0	0	0	0	0.00	0.00	0.00
ELS024	Wisc Central	65	94	0	0	0	0	0	0.00	0.00	0.00
ELS027	Wisc Central	65	2114	0	0	0	0	0	0.00	0.00	0.00
ELS031	Wisc Central	65	744	0	0	0	0	0	0.00	0.00	0.00
ELS032	Wisc Central	65	1188	0	0	0	0	0	0.00	0.00	0.00
ELS033	Wisc Central	65	1491	0	0	0	0	0	0.00	0.00	0.00
ETK021	Wisc South	67	338	1	337	0	0	0	0.00	0.00	0.00
EWA001	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
FAY001	Wisc North	62	256	0	0	0	0	0	0.00	0.00	0.00
FEN061	Wisc South	68	1183	0	0	0	0	0	0.00	0.00	0.00
FEN062	Wisc South	68	482	1	489	0	0	0	0.00	0.00	0.00
FEN063	Wisc South	68	597	1	600	0	0	0	0.00	0.00	0.00
FEN071	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
FEN072	Wisc South	68	840	1	845	0	0	0	0.00	0.00	0.00
FEN073	Wisc South	68	957	1	955	0	0	0	0.00	0.00	0.00
FIN021	Wisc North	61	659	0	0	0	0	0	0.00	0.00	0.00
FIN022	Wisc North	61	2000	0	0	0	0	0	0.00	0.00	0.00
FLB010	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
FLC097	Wisc Central	65	623	0	0	0	0	0	0.00	0.00	0.00
GAL021	Wisc South	67	1269	0	0	0	0	0	0.00	0.00	0.00
GAS62I	Wisc North	62	0	0	0	0	0	0	0.00	0.00	0.00
GAS62S	Wisc North	62	4	0	0	0	0	0	0.00	0.00	0.00
GAS63E	Wisc North	63	135	0	0	0	0	0	0.00	0.00	0.00
GAS63W	Wisc North	63	404	0	0	0	0	0	0.00	0.00	0.00
GAS651	Wisc Central	65	2	0	0	0	0	0	0.00	0.00	0.00
GAS681	Wisc South	68	23	0	0	0	0	0	0.00	0.00	0.00
GAS68A	Wisc South	68	2	0	0	0	0	0	0.00	0.00	0.00
GAS68B	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
GAS68C	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
GDN021	Wisc North	62	420	2	838	0	0	0	0.00	0.00	0.00
GEN197	Wisc South	68	744	0	0	0	0	0	0.00	0.00	0.00
GLA021	Wisc North	63	75	0	0	0	0	0	0.00	0.00	0.00
GLM021	Wisc Central	64	480	0	0	0	0	0	0.00	0.00	0.00
GOG001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
GRV021	Wisc North	62	105	0	0	0	0	0	0.00	0.00	0.00
GST021	Wisc North	60	410	0	0	0	0	0	0.00	0.00	0.00

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	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.86
GST023	Wisc North	60	578	0	0	0	0	0	0.00	0.00	0.00
GVA021	Wisc South	67	323	0	0	0	0	0	0.00	0.00	0.00
HAF001	Wisc South	67	110	0	0	0	0	0	0.00	0.00	0.00
HAL062	Wisc Central	65	1637	0	0	0	0	0	0.00	0.00	0.00
HAL063	Wisc Central	65	1486	0	0	0	0	0	0.00	0.00	0.00
HAL072	Wisc Central	65	1144	0	0	0	0	0	0.00	0.00	0.00
HAL073	Wisc Central	65	417	0	0	0	0	0	0.00	0.00	0.00
HAY081	Wisc Central	66	655	0	0	0	0	0	0.00	0.00	0.00
HER001	Wisc North	62	142	0	0	0	0	0	0.00	0.00	0.00
HGN021	Wisc North	63	6	0	0	0	0	0	0.00	0.00	0.00
HLA062	Wisc South	68	1439	0	0	0	0	0	0.00	0.00	0.00
HLA063	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
HUR021	Wisc North	63	386	0	0	0	0	0	0.00	0.00	0.00
HUR022	Wisc North	63	866	0	0	0	0	0	0.00	0.00	0.00
HWD021	Wisc North	61	556	0	0	0	0	0	0.00	0.00	0.00
HWD022	Wisc North	61	677	0	0	0	0	0	0.00	0.00	0.00
HWK021	Wisc North	61	224	0	0	0	0	0	0.00	0.00	0.00
HWY021	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
HYD031	Wisc Central	65	55	0	0	0	0	0	0.00	0.00	0.00
HYD211	Wisc Central	65	42	0	0	0	0	0	0.00	0.00	0.00
HYD212	Wisc Central	65	71	0	0	0	0	0	0.00	0.00	0.00
IHD021	Wisc North	63	326	0	0	0	0	0	0.00	0.00	0.00
INO001	Wisc North	62	0	0	0	0	0	0	0.00	0.00	0.00
IRB001	Wisc North	63	148	0	0	0	0	0	0.00	0.00	0.00
IRP001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
IRP002	Wisc North	63	0	0	0	0	0	0	0.00	0.00	0.00
IRW001	Wisc North	63	344	0	0	0	0	0	0.00	0.00	0.00
IRW002	Wisc North	63	566	0	0	0	0	0	0.00	0.00	0.00
IRW003	Wisc North	63	525	0	0	0	0	0	0.00	0.00	0.00
IRW004	Wisc North	63	0	0	0	0	0	0	0.00	0.00	0.00
IRW005	Wisc North	63	315	0	0	0	0	0	0.00	0.00	0.00
JEF211	Wisc Central	65	106	1	99	0	0	0	0.00	0.00	0.00
JEF221	Wisc Central	65	74	0	0	0	0	0	0.00	0.00	0.00
JIM021	Wisc Central	65	359	0	0	0	0	0	0.00	0.00	0.00
JKS021	Wisc North	63	4	0	0	0	0	0	0.00	0.00	0.00
KIN081	Wisc North	60	551	0	0	0	0	0	0.00	0.00	0.00
LAX000	Wisc South	68	36	0	0	0	0	0	0.00	0.00	0.00
LAX063	Wisc South	68	1481	0	0	0	0	0	0.00	0.00	0.00
LAX065	Wisc South	68	941	0	0	0	0	0	0.00	0.00	0.00
LAX067	Wisc South	68	789	0	0	0	0	0	0.00	0.00	0.00
LAX074	Wisc South	68	638	1	638	0	0	0	0.00	0.00	0.00
LAX075	Wisc South	68	1615	1	1616	0	0	0	0.00	0.00	0.00
LAX076	Wisc South	68	1153	0	0	0	0	0	0.00	0.00	0.00
LAX077	Wisc South	68	268	0	0	0	0	0	0.00	0.00	0.00
LDP001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00

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	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
LKC081	Wisc North	60	1266	0	0	0	0	0	0.00	0.00	0.00
LKH010	Wisc Central	64	3	0	0	0	0	0	0.00	0.00	0.00
LKH020	Wisc Central	64	3	0	0	0	0	0	0.00	0.00	0.00
LON061	Wisc Central	65	1328	0	0	0	0	0	0.00	0.00	0.00
LON063	Wisc Central	65	216	1	204	0	0	0	0.00	0.00	0.00
LON071	Wisc Central	65	495	0	0	0	0	0	0.00	0.00	0.00
LON072	Wisc Central	65	738	0	0	0	0	0	0.00	0.00	0.00
LOY021	Wisc Central	64	966	0	0	0	0	0	0.00	0.00	0.00
LOY022	Wisc Central	64	757	0	0	0	0	0	0.00	0.00	0.00
LPA001	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
LUK021	Wisc North	60	1028	0	0	0	0	0	0.00	0.00	0.00
LUP001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
LYN021	Wisc Central	64	255	0	0	0	0	0	0.00	0.00	0.00
LYN022	Wisc Central	64	419	0	0	0	0	0	0.00	0.00	0.00
MAD061	Wisc Central	65	312	1	315	0	0	0	0.00	0.00	0.00
MAD062	Wisc Central	65	928	0	0	0	0	0	0.00	0.00	0.00
MAD071	Wisc Central	65	733	0	0	0	0	0	0.00	0.00	0.00
MAD072	Wisc Central	65	1446	0	0	0	0	0	0.00	0.00	0.00
MAF061	Wisc South	68	745	1	272	0	0	0	0.00	0.00	0.00
MAF062	Wisc South	68	51	1	51	0	0	0	0.00	0.00	0.00
MAF063	Wisc South	68	1543	1	1543	0	0	0	0.00	0.00	0.00
MAF072	Wisc South	68	664	0	0	0	0	0	0.00	0.00	0.00
MAF073	Wisc South	68	368	0	0	0	0	0	0.00	0.00	0.00
MCO001	Wisc North	63	203	0	0	0	0	0	0.00	0.00	0.00
MCO021	Wisc North	63	397	0	0	0	0	0	0.00	0.00	0.00
MDR021	Wisc Central	66	147	0	0	0	0	0	0.00	0.00	0.00
MEN021	Wisc Central	66	900	0	0	0	0	0	0.00	0.00	0.00
MEN022	Wisc Central	66	1581	0	0	0	0	0	0.00	0.00	0.00
MEN023	Wisc Central	66	338	0	0	0	0	0	0.00	0.00	0.00
MEN031	Wisc Central	66	25	0	0	0	0	0	0.00	0.00	0.00
MEN032	Wisc Central	66	1767	0	0	0	0	0	0.00	0.00	0.00
MER021	Wisc South	67	763	0	0	0	0	0	0.00	0.00	0.00
MEY021	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
MFN021	Wisc Central	64	0	0	0	0	0	0	0.00	0.00	0.00
MFS021	Wisc Central	64	0	0	0	0	0	0	0.00	0.00	0.00
MFW021	Wisc Central	64	0	0	0	0	0	0	0.00	0.00	0.00
MID001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
MLS021	Wisc South	67	520	0	0	0	0	0	0.00	0.00	0.00
MLS022	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
MNR021	Wisc North	62	95	0	0	0	0	0	0.00	0.00	0.00
MNR022	Wisc North	62	110	0	0	0	0	0	0.00	0.00	0.00
MNT001	Wisc North	63	838	0	0	0	0	0	0.00	0.00	0.00
MRC021	Wisc North	63	114	4	456	0	0	0	0.00	0.00	0.00
MSE021	Wisc North	62	29	0	0	0	0	0	0.00	0.00	0.00
NAP021	Wisc Central	65	520	0	0	0	0	0	0.00	0.00	0.00

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Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.18	0.28	124.36
NAP022	Wisc Central	65	1437	0	0	0	0	0	0.00	0.00	0.00
NFO021	Wisc North	62	1062	0	0	0	0	0	0.00	0.00	0.00
NFO031	Wisc North	62	1328	0	0	0	0	0	0.00	0.00	0.00
NLV021	Wisc Central	64	987	0	0	0	0	0	0.00	0.00	0.00
NLV031	Wisc Central	64	589	0	0	0	0	0	0.00	0.00	0.00
NLV032	Wisc Central	64	545	0	0	0	0	0	0.00	0.00	0.00
NRA001	Wisc North	63	470	0	0	0	0	0	0.00	0.00	0.00
OGE021	Wisc North	62	172	0	0	0	0	0	0.00	0.00	0.00
OJB021	Wisc North	63	5	0	0	0	0	0	0.00	0.00	0.00
OLU021	Wisc North	62	95	0	0	0	0	0	0.00	0.00	0.00
ONA061	Wisc South	68	2286	0	0	0	0	0	0.00	0.00	0.00
ONA062	Wisc South	68	938	0	0	0	0	0	0.00	0.00	0.00
OPK010	Wisc North	60	348	0	0	0	0	0	0.00	0.00	0.00
OPK011	Wisc North	60	9	0	0	0	0	0	0.00	0.00	0.00
OPY081	Wisc North	61	615	2	1222	0	0	0	0.00	0.00	0.00
OSC022	Wisc North	60	706	1	701	0	0	0	0.00	0.00	0.00
OSC031	Wisc North	60	62	1	62	0	0	0	0.00	0.00	0.00
OSC032	Wisc North	60	0	0	0	0	0	0	0.00	0.00	0.00
OWN021	Wisc Central	64	1246	0	0	0	0	0	0.00	0.00	0.00
PEP021	Wisc Central	66	893	0	0	0	0	0	0.00	0.00	0.00
PHL021	Wisc North	62	743	0	0	0	0	0	0.00	0.00	0.00
PHL031	Wisc North	62	1003	0	0	0	0	0	0.00	0.00	0.00
PHL032	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
PMP001	Wisc North	61	6	0	0	0	0	0	0.00	0.00	0.00
POK061	Wisc North	61	791	0	0	0	0	0	0.00	0.00	0.00
POK062	Wisc North	61	890	0	0	0	0	0	0.00	0.00	0.00
PRE022	Wisc North	60	721	0	0	0	0	0	0.00	0.00	0.00
PRS563	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
PRS565	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
PTW001	Wisc North	62	312	0	0	0	0	0	0.00	0.00	0.00
RBL021	Wisc North	62	138	0	0	0	0	0	0.00	0.00	0.00
RBL022	Wisc North	62	176	0	0	0	0	0	0.00	0.00	0.00
RBL023	Wisc North	62	660	0	0	0	0	0	0.00	0.00	0.00
RCD022	Wisc Central	66	105	0	0	0	0	0	0.00	0.00	0.00
RCD023	Wisc Central	66	906	0	0	0	0	0	0.00	0.00	0.00
RCD024	Wisc Central	66	123	0	0	0	0	0	0.00	0.00	0.00
RCD031	Wisc Central	66	3	0	0	0	0	0	0.00	0.00	0.00
RCD032	Wisc Central	66	6	0	0	0	0	0	0.00	0.00	0.00
RCD033	Wisc Central	66	3	0	0	0	0	0	0.00	0.00	0.00
RCL029	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
RCL039	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
RIC081	Wisc North	60	2102	3	6190	0	0	0	0.00	0.00	0.00
RIC082	Wisc North	60	4	0	0	0	0	0	0.00	0.00	0.00
RID082	Wisc North	61	742	0	0	0	0	0	0.00	0.00	0.00
RKL021	Wisc South	67	743	0	0	0	0	0	0.00	0.00	0.00

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	Grand Total:		233246	93	109453	69	65882	8192834	35.18	0.28	124.36
RSH081	Wisc North	60	2268	0	0	0	0	0	0.00	0.00	0.00
RSH091	Wisc North	60	958	0	0	0	0	0	0.00	0.00	0.00
RSH092	Wisc North	60	327	0	0	0	0	0	0.00	0.00	0.00
RSK021	Wisc Central	66	683	0	0	0	0	0	0.00	0.00	0.00
RTL022	Wisc North	63	926	4	3688	0	0	0	0.00	0.00	0.00
RVW021	Wisc Central	65	82	0	0	0	0	0	0.00	0.00	0.00
SAX001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
SCF024	Wisc North	60	224	0	0	0	0	0	0.00	0.00	0.00
SCF025	Wisc North	60	992	0	0	0	0	0	0.00	0.00	0.00
SHW021	Wisc Central	65	262	0	0	0	0	0	0.00	0.00	0.00
SLA001	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
SLD021	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
SND021	Wisc North	61	2555	0	0	0	0	0	0.00	0.00	0.00
SOE001	Wisc North	62	511	0	0	0	0	0	0.00	0.00	0.00
SPA021	Wisc South	67	471	0	0	0	0	0	0.00	0.00	0.00
SPA022	Wisc South	67	1454	0	0	0	0	0	0.00	0.00	0.00
SPA031	Wisc South	67	1547	0	0	0	0	0	0.00	0.00	0.00
SPA032	Wisc South	67	1796	1	1784	0	0	0	0.00	0.00	0.00
SPA033	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
SPE021	Wisc Central	64	1026	0	0	0	0	0	0.00	0.00	0.00
SPN001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
SPR021	Wisc Central	66	761	0	0	0	0	0	0.00	0.00	0.00
SQN001	Wisc North	62	6	1	3	0	0	0	0.00	0.00	0.00
STA081	Wisc Central	64	199	0	0	0	0	0	0.00	0.00	0.00
STA082	Wisc Central	64	608	0	0	0	0	0	0.00	0.00	0.00
STA083	Wisc Central	64	803	0	0	0	0	0	0.00	0.00	0.00
STE471	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
STE472	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
STM021	Wisc Central	65	522	0	0	0	0	0	0.00	0.00	0.00
STM022	Wisc Central	65	1000	0	0	0	0	0	0.00	0.00	0.00
SUM211	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
SUM212	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
SVN001	Wisc North	62	293	0	0	0	0	0	0.00	0.00	0.00
SWC061	Wisc South	68	355	0	0	0	0	0	0.00	0.00	0.00
SWC062	Wisc South	68	12	0	0	0	0	0	0.00	0.00	0.00
SWC071	Wisc South	68	257	0	0	0	0	0	0.00	0.00	0.00
SWC072	Wisc South	68	1184	0	0	0	0	0	0.00	0.00	0.00
TAD021	Wisc North	61	345	0	0	0	0	0	0.00	0.00	0.00
THA001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
TLA001	Wisc North	63	1	0	0	0	0	0	0.00	0.00	0.00
TMU001	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
TRE021	Wisc South	67	18	0	0	0	0	0	0.00	0.00	0.00
TRL081	Wisc North	61	822	0	0	0	0	0	0.00	0.00	0.00
TRP021	Wisc Central	64	512	0	0	0	0	0	0.00	0.00	0.00
TRP022	Wisc Central	64	917	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With >= 250,000 Sustained Customer Minutes

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
TRX022	Wisc Central	65	748	0	0	0	0	0	0.00	0.00	0.00
TRX023	Wisc Central	65	644	0	0	0	0	0	0.00	0.00	0.00
TRX031	Wisc Central	65	77	0	0	0	0	0	0.00	0.00	0.00
TRX032	Wisc Central	65	1859	0	0	0	0	0	0.00	0.00	0.00
TRX033	Wisc Central	65	381	0	0	0	0	0	0.00	0.00	0.00
TUR021	Wisc North	60	299	0	0	0	0	0	0.00	0.00	0.00
TUR022	Wisc North	60	325	0	0	0	0	0	0.00	0.00	0.00
TWT081	Wisc North	60	1158	0	0	0	0	0	0.00	0.00	0.00
UPS001	Wisc North	63	45	0	0	0	0	0	0.00	0.00	0.00
USR533	Wisc Central	65	6	0	0	0	0	0	0.00	0.00	0.00
USR534	Wisc Central	65	9	0	0	0	0	0	0.00	0.00	0.00
VAV001	Wisc North	62	284	0	0	0	0	0	0.00	0.00	0.00
VIR002	Wisc South	67	499	0	0	0	0	0	0.00	0.00	0.00
VIR003	Wisc South	67	905	0	0	0	0	0	0.00	0.00	0.00
VIR061	Wisc South	67	1340	2	2654	0	0	0	0.00	0.00	0.00
WAF001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
WBI021	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
WBN021	Wisc North	62	836	0	0	0	0	0	0.00	0.00	0.00
WBN022	Wisc North	62	446	0	0	0	0	0	0.00	0.00	0.00
WBY171	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
WDB001	Wisc North	63	7	0	0	0	0	0	0.00	0.00	0.00
WHH022	Wisc South	67	562	0	0	0	0	0	0.00	0.00	0.00
WHH023	Wisc South	67	752	0	0	0	0	0	0.00	0.00	0.00
WHR022	Wisc North	62	226	0	0	0	0	0	0.00	0.00	0.00
WHR023	Wisc North	62	241	0	0	0	0	0	0.00	0.00	0.00
WIB569	Wisc Central	65	1302	0	0	0	0	0	0.00	0.00	0.00
WLR082	Wisc North	60	4784	3	7026	0	0	0	0.00	0.00	0.00
WLR092	Wisc North	60	3783	3	11332	0	0	0	0.00	0.00	0.00
WND081	Wisc Central	66	269	0	0	0	0	0	0.00	0.00	0.00
WSM081	Wisc South	67	1287	0	0	0	0	0	0.00	0.00	0.00
WSM091	Wisc South	67	1991	3	5957	0	0	0	0.00	0.00	0.00
WSM092	Wisc South	67	1098	1	1097	0	0	0	0.00	0.00	0.00
WTH001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
WTL061	Wisc North	61	1288	0	0	0	0	0	0.00	0.00	0.00
WTL062	Wisc North	61	1116	0	0	0	0	0	0.00	0.00	0.00
YLR081	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
YLR082	Wisc North	61	1089	0	0	0	0	0	0.00	0.00	0.00
			233246	93	109453	69	65882	8192834	35.13	0.28	124.36

TAB 2.2.2

Worst Performing Feeders
With
MAIFI >= 5

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With MAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
TCN092	Wisc Central	64	2087	8	17058	2	4280	1750520	838.77	2.05	409.00
MRC021	Wisc North	63	114	4	456	0	0	0	0.00	0.00	0.00
RTL021	Wisc North	63	1048	4	4182	1	488	233264	222.58	0.47	478.00
RTL022	Wisc North	63	926	4	3688	0	0	0	0.00	0.00	0.00
WLR092	Wisc North	60	3783	3	11332	0	0	0	0.00	0.00	0.00
WSM091	Wisc South	67	1991	3	5957	0	0	0	0.00	0.00	0.00
COU071	Wisc South	68	1333	3	3951	0	0	0	0.00	0.00	0.00
MRC022	Wisc North	63	1537	3	4543	1	1517	109224	71.06	0.99	72.00
RIC081	Wisc North	60	2102	3	6190	0	0	0	0.00	0.00	0.00
ELS021	Wisc Central	65	421	2	848	0	0	0	0.00	0.00	0.00
TCN091	Wisc Central	64	949	2	1894	1	947	626914	660.60	1.00	662.00
BNT021	Wisc North	62	472	2	942	0	0	0	0.00	0.00	0.00
GDN021	Wisc North	62	420	2	838	0	0	0	0.00	0.00	0.00
COU078	Wisc South	68	1212	2	2418	4	4836	278899	230.11	3.99	57.67
OPY081	Wisc North	61	615	2	1222	0	0	0	0.00	0.00	0.00
VIR061	Wisc South	67	1340	2	2654	0	0	0	0.00	0.00	0.00
WLR082	Wisc North	60	4784	3	7026	0	0	0	0.00	0.00	0.00
CHF023	Wisc Central	65	818	1	887	0	0	0	0.00	0.00	0.00
PRE021	Wisc North	60	1238	1	1292	1	1307	132007	106.63	1.06	101.00
FEN062	Wisc South	68	482	1	489	0	0	0	0.00	0.00	0.00
MAD061	Wisc Central	65	312	1	315	0	0	0	0.00	0.00	0.00
SST061	Wisc North	62	537	1	542	1	542	35772	66.61	1.01	66.00
FEN072	Wisc South	68	840	1	845	0	0	0	0.00	0.00	0.00
FEN063	Wisc South	68	597	1	600	0	0	0	0.00	0.00	0.00
LAX062	Wisc South	68	1835	1	1840	1	1831	49437	26.94	1.00	27.00
MAF071	Wisc South	68	1064	1	1065	1	1065	24495	23.02	1.00	23.00
LAX075	Wisc South	68	1615	1	1616	0	0	0	0.00	0.00	0.00
AMC001	Wisc North	62	3	1	3	1	3	198	66.00	1.00	66.00
COU068	Wisc South	68	1876	1	1876	0	0	0	0.00	0.00	0.00
COU079	Wisc South	68	547	1	547	2	1094	12034	22.00	2.00	11.00
CUM082	Wisc North	60	101	1	101	0	0	0	0.00	0.00	0.00
LAX074	Wisc South	68	638	1	638	0	0	0	0.00	0.00	0.00
MAF062	Wisc South	68	51	1	51	0	0	0	0.00	0.00	0.00
MAF063	Wisc South	68	1543	1	1543	0	0	0	0.00	0.00	0.00
OSC031	Wisc North	60	62	1	62	0	0	0	0.00	0.00	0.00
TCN081	Wisc Central	64	2068	1	2068	1	2070	1544220	746.72	1.00	746.00
WSM092	Wisc South	67	1098	1	1097	0	0	0	0.00	0.00	0.00
CHF022	Wisc Central	65	1672	1	1670	1	1670	235470	140.83	1.00	141.00
PRN021	Wisc North	62	776	1	775	1	777	41181	53.07	1.00	53.00
SST062	Wisc North	62	586	1	585	1	585	38610	65.89	1.00	66.00
FEN073	Wisc South	68	957	1	955	0	0	0	0.00	0.00	0.00
ETK021	Wisc South	67	338	1	337	0	0	0	0.00	0.00	0.00
COU061	Wisc South	68	1570	1	1564	1	1564	9384	5.98	1.00	6.00
CUM081	Wisc North	60	229	1	228	1	456	34656	151.34	1.99	76.00
SPA032	Wisc South	67	1796	1	1784	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With MAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
OSC022	Wisc North	60	706	1	701	0	0	0	0.00	0.00	0.00
CVA022	Wisc South	67	378	1	375	0	0	0	0.00	0.00	0.00
WLR091	Wisc North	60	2552	1	2531	1	2487	258350	101.23	0.97	103.88
CVA021	Wisc South	67	671	1	665	0	0	0	0.00	0.00	0.00
OSC021	Wisc North	60	1243	1	1230	1	1230	30750	24.74	0.99	25.00
OTC032	Wisc Central	65	1484	1	1466	1	1472	73600	49.60	0.99	50.00
CLL081	Wisc North	60	504	1	497	0	0	0	0.00	0.00	0.00
ELS034	Wisc Central	65	311	1	303	2	601	40132	129.04	1.93	66.78
OTC021	Wisc Central	65	553	1	533	2	1077	46339	83.80	1.95	43.03
LON063	Wisc Central	65	216	1	204	0	0	0	0.00	0.00	0.00
JEF211	Wisc Central	65	106	1	99	0	0	0	0.00	0.00	0.00
SQN001	Wisc North	62	6	1	3	0	0	0	0.00	0.00	0.00
MAF061	Wisc South	68	745	1	272	0	0	0	0.00	0.00	0.00
ALC021	Wisc South	67	395	0	0	0	0	0	0.00	0.00	0.00
ALC022	Wisc South	67	224	0	0	0	0	0	0.00	0.00	0.00
ALM559	Wisc Central	66	507	0	0	0	0	0	0.00	0.00	0.00
ALM560	Wisc Central	66	15	0	0	0	0	0	0.00	0.00	0.00
ALN001	Wisc North	63	9	0	0	0	0	0	0.00	0.00	0.00
AMC002	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
AMY001	Wisc North	60	558	0	0	1	560	8960	16.06	1.00	16.00
ARK081	Wisc Central	66	85	0	0	0	0	0	0.00	0.00	0.00
ARK082	Wisc Central	66	598	0	0	0	0	0	0.00	0.00	0.00
AUG021	Wisc Central	65	330	0	0	0	0	0	0.00	0.00	0.00
AUG022	Wisc Central	65	691	0	0	0	0	0	0.00	0.00	0.00
AYR021	Wisc North	63	831	0	0	1	816	98736	118.82	0.98	121.00
AYR022	Wisc North	63	893	0	0	1	890	123710	138.53	1.00	139.00
BAV001	Wisc North	62	722	0	0	0	0	0	0.00	0.00	0.00
BAY021	Wisc North	60	813	0	0	1	810	182250	224.17	1.00	225.00
BEA414	Wisc North	60	850	0	0	0	0	0	0.00	0.00	0.00
BEA415	Wisc North	60	386	0	0	0	0	0	0.00	0.00	0.00
BES021	Wisc North	63	1065	0	0	0	0	0	0.00	0.00	0.00
BES022	Wisc North	63	1084	0	0	0	0	0	0.00	0.00	0.00
BFT061	Wisc North	62	581	0	0	0	0	0	0.00	0.00	0.00
BFT062	Wisc North	62	640	0	0	0	0	0	0.00	0.00	0.00
BGR020	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
BIR021	Wisc North	61	951	0	0	0	0	0	0.00	0.00	0.00
BIR022	Wisc North	61	578	0	0	0	0	0	0.00	0.00	0.00
BKD021	Wisc North	62	293	0	0	0	0	0	0.00	0.00	0.00
BLA021	Wisc South	67	683	0	0	0	0	0	0.00	0.00	0.00
BLA022	Wisc South	67	17	0	0	0	0	0	0.00	0.00	0.00
BLA023	Wisc South	67	556	0	0	0	0	0	0.00	0.00	0.00
BLD021	Wisc North	63	639	0	0	0	0	0	0.00	0.00	0.00
BLR020	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
BMU021	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
BRA001	Wisc North	63	1	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With MAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.18	0.28	124.36
BYD001	Wisc Central	64	318	0	0	0	0	0	0.00	0.00	0.00
BYF021	Wisc North	62	2214	0	0	0	0	0	0.00	0.00	0.00
CAB021	Wisc North	61	462	0	0	0	0	0	0.00	0.00	0.00
CAB022	Wisc North	61	381	0	0	0	0	0	0.00	0.00	0.00
CAD001	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
CAD061	Wisc Central	65	54	0	0	0	0	0	0.00	0.00	0.00
CAT021	Wisc South	67	494	0	0	0	0	0	0.00	0.00	0.00
CEF081	Wisc Central	66	836	0	0	0	0	0	0.00	0.00	0.00
CFO001	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
CHF021	Wisc Central	65	667	0	0	0	0	0	0.00	0.00	0.00
CHF024	Wisc Central	65	1366	0	0	0	0	0	0.00	0.00	0.00
CHF031	Wisc Central	65	432	0	0	0	0	0	0.00	0.00	0.00
CHF032	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
CHF033	Wisc Central	65	562	0	0	1	559	78819	140.25	0.99	141.00
CHF034	Wisc Central	65	209	0	0	0	0	0	0.00	0.00	0.00
CLL082	Wisc North	60	406	0	0	0	0	0	0.00	0.00	0.00
CMR021	Wisc North	61	1119	0	0	0	0	0	0.00	0.00	0.00
CNR001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
COC021	Wisc Central	66	409	0	0	0	0	0	0.00	0.00	0.00
CON021	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
COR197	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
COR198	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
COU062	Wisc South	68	1377	0	0	0	0	0	0.00	0.00	0.00
COU069	Wisc South	68	471	0	0	0	0	0	0.00	0.00	0.00
COU077	Wisc South	68	1795	0	0	0	0	0	0.00	0.00	0.00
CPM021	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
CPM022	Wisc South	67	5	0	0	0	0	0	0.00	0.00	0.00
CPM023	Wisc South	67	6	0	0	0	0	0	0.00	0.00	0.00
CPM024	Wisc South	67	399	0	0	0	0	0	0.00	0.00	0.00
CPM025	Wisc South	67	225	0	0	0	0	0	0.00	0.00	0.00
CPM026	Wisc South	67	401	0	0	0	0	0	0.00	0.00	0.00
CPM032	Wisc South	67	618	0	0	0	0	0	0.00	0.00	0.00
CPM033	Wisc South	67	393	0	0	0	0	0	0.00	0.00	0.00
CPM034	Wisc South	67	52	0	0	0	0	0	0.00	0.00	0.00
CPM035	Wisc South	67	108	0	0	0	0	0	0.00	0.00	0.00
CRN001	Wisc North	62	118	0	0	0	0	0	0.00	0.00	0.00
CSH021	Wisc South	67	121	0	0	0	0	0	0.00	0.00	0.00
CSH022	Wisc South	67	434	0	0	0	0	0	0.00	0.00	0.00
CTA021	Wisc North	62	316	0	0	0	0	0	0.00	0.00	0.00
CTS021	Wisc Central	64	730	0	0	0	0	0	0.00	0.00	0.00
DRM021	Wisc North	61	167	0	0	0	0	0	0.00	0.00	0.00
DRS211	Wisc North	61	109	0	0	1	49	16660	152.84	0.45	340.00
DRS212	Wisc North	61	611	0	0	0	0	0	0.00	0.00	0.00
DUR021	Wisc Central	66	482	0	0	0	0	0	0.00	0.00	0.00
DUR022	Wisc Central	66	1021	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With MAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
EGA021	Wisc Central	66	117	0	0	0	0	0	0.00	0.00	0.00
EGA022	Wisc Central	66	359	0	0	0	0	0	0.00	0.00	0.00
EGP211	Wisc Central	65	1232	0	0	1	1169	101703	82.55	0.95	87.00
EGP212	Wisc Central	65	81	0	0	0	0	0	0.00	0.00	0.00
ELK001	Wisc Central	65	421	0	0	0	0	0	0.00	0.00	0.00
ELL021	Wisc North	60	1044	0	0	0	0	0	0.00	0.00	0.00
ELL022	Wisc North	60	319	0	0	0	0	0	0.00	0.00	0.00
ELM021	Wisc Central	66	224	0	0	0	0	0	0.00	0.00	0.00
ELM022	Wisc Central	66	596	0	0	0	0	0	0.00	0.00	0.00
ELS022	Wisc Central	65	473	0	0	0	0	0	0.00	0.00	0.00
ELS023	Wisc Central	65	15	0	0	0	0	0	0.00	0.00	0.00
ELS024	Wisc Central	65	94	0	0	0	0	0	0.00	0.00	0.00
ELS027	Wisc Central	65	2114	0	0	0	0	0	0.00	0.00	0.00
ELS031	Wisc Central	65	744	0	0	0	0	0	0.00	0.00	0.00
ELS032	Wisc Central	65	1188	0	0	0	0	0	0.00	0.00	0.00
ELS033	Wisc Central	65	1491	0	0	0	0	0	0.00	0.00	0.00
EWA001	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
FAY001	Wisc North	62	256	0	0	0	0	0	0.00	0.00	0.00
FEN061	Wisc South	68	1183	0	0	0	0	0	0.00	0.00	0.00
FEN071	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
FIN021	Wisc North	61	659	0	0	0	0	0	0.00	0.00	0.00
FIN022	Wisc North	61	2000	0	0	0	0	0	0.00	0.00	0.00
FLB010	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
FLC097	Wisc Central	65	623	0	0	0	0	0	0.00	0.00	0.00
GAL021	Wisc South	67	1269	0	0	0	0	0	0.00	0.00	0.00
GAS62I	Wisc North	62	0	0	0	0	0	0	0.00	0.00	0.00
GAS62S	Wisc North	62	4	0	0	0	0	0	0.00	0.00	0.00
GAS63E	Wisc North	63	135	0	0	0	0	0	0.00	0.00	0.00
GAS63W	Wisc North	63	404	0	0	0	0	0	0.00	0.00	0.00
GAS651	Wisc Central	65	2	0	0	0	0	0	0.00	0.00	0.00
GAS681	Wisc South	68	23	0	0	0	0	0	0.00	0.00	0.00
GAS68A	Wisc South	68	2	0	0	0	0	0	0.00	0.00	0.00
GAS68B	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
GAS68C	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
GEN197	Wisc South	68	744	0	0	0	0	0	0.00	0.00	0.00
GEN198	Wisc South	68	274	0	0	1	273	38493	140.49	1.00	141.00
GLA021	Wisc North	63	75	0	0	0	0	0	0.00	0.00	0.00
GLM021	Wisc Central	64	480	0	0	0	0	0	0.00	0.00	0.00
GMT021	Wisc North	60	198	0	0	2	243	35775	180.68	1.23	147.22
GOG001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
GRV021	Wisc North	62	105	0	0	0	0	0	0.00	0.00	0.00
GST021	Wisc North	60	410	0	0	0	0	0	0.00	0.00	0.00
GST023	Wisc North	60	578	0	0	0	0	0	0.00	0.00	0.00
GVA021	Wisc South	67	323	0	0	0	0	0	0.00	0.00	0.00
HAF001	Wisc South	67	110	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With MAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
HAL062	Wisc Central	65	1637	0	0	0	0	0	0.00	0.00	0.00
HAL063	Wisc Central	65	1486	0	0	0	0	0	0.00	0.00	0.00
HAL072	Wisc Central	65	1144	0	0	0	0	0	0.00	0.00	0.00
HAL073	Wisc Central	65	417	0	0	0	0	0	0.00	0.00	0.00
HAY081	Wisc Central	66	655	0	0	0	0	0	0.00	0.00	0.00
HAY082	Wisc Central	66	1713	0	0	1	3404	418692	244.42	1.99	123.00
HER001	Wisc North	62	142	0	0	0	0	0	0.00	0.00	0.00
HGN021	Wisc North	63	6	0	0	0	0	0	0.00	0.00	0.00
HLA062	Wisc South	68	1439	0	0	0	0	0	0.00	0.00	0.00
HLA063	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
HLA071	Wisc South	68	1223	0	0	1	1218	105966	86.64	1.00	87.00
HUR021	Wisc North	63	386	0	0	0	0	0	0.00	0.00	0.00
HUR022	Wisc North	63	866	0	0	0	0	0	0.00	0.00	0.00
HWD021	Wisc North	61	556	0	0	0	0	0	0.00	0.00	0.00
HWD022	Wisc North	61	677	0	0	0	0	0	0.00	0.00	0.00
HWK021	Wisc North	61	224	0	0	0	0	0	0.00	0.00	0.00
HWY021	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
HYD031	Wisc Central	65	55	0	0	0	0	0	0.00	0.00	0.00
HYD032	Wisc Central	65	2687	0	0	1	2950	76700	28.54	1.10	26.00
HYD211	Wisc Central	65	42	0	0	0	0	0	0.00	0.00	0.00
HYD212	Wisc Central	65	71	0	0	0	0	0	0.00	0.00	0.00
IHD021	Wisc North	63	326	0	0	0	0	0	0.00	0.00	0.00
INO001	Wisc North	62	0	0	0	0	0	0	0.00	0.00	0.00
IRB001	Wisc North	63	148	0	0	0	0	0	0.00	0.00	0.00
IRP001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
IRP002	Wisc North	63	0	0	0	0	0	0	0.00	0.00	0.00
IRW001	Wisc North	63	344	0	0	0	0	0	0.00	0.00	0.00
IRW002	Wisc North	63	566	0	0	0	0	0	0.00	0.00	0.00
IRW003	Wisc North	63	525	0	0	0	0	0	0.00	0.00	0.00
IRW004	Wisc North	63	0	0	0	0	0	0	0.00	0.00	0.00
IRW005	Wisc North	63	315	0	0	0	0	0	0.00	0.00	0.00
JEF221	Wisc Central	65	74	0	0	0	0	0	0.00	0.00	0.00
JIM021	Wisc Central	65	359	0	0	0	0	0	0.00	0.00	0.00
JKS021	Wisc North	63	4	0	0	0	0	0	0.00	0.00	0.00
KIN081	Wisc North	60	551	0	0	0	0	0	0.00	0.00	0.00
LAX000	Wisc South	68	36	0	0	0	0	0	0.00	0.00	0.00
LAX063	Wisc South	68	1481	0	0	0	0	0	0.00	0.00	0.00
LAX065	Wisc South	68	941	0	0	0	0	0	0.00	0.00	0.00
LAX067	Wisc South	68	789	0	0	0	0	0	0.00	0.00	0.00
LAX076	Wisc South	68	1153	0	0	0	0	0	0.00	0.00	0.00
LAX077	Wisc South	68	268	0	0	0	0	0	0.00	0.00	0.00
LDP001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
LKC081	Wisc North	60	1266	0	0	0	0	0	0.00	0.00	0.00
LKH010	Wisc Central	64	3	0	0	0	0	0	0.00	0.00	0.00
LKH020	Wisc Central	64	3	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers Mainline(Feeder Level Only) Excluding All Storm Conditions With MAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
LON061	Wisc Central	65	1328	0	0	0	0	0	0.00	0.00	0.00
LON062	Wisc Central	65	483	0	0	1	467	33624	69.61	0.97	72.00
LON071	Wisc Central	65	495	0	0	0	0	0	0.00	0.00	0.00
LON072	Wisc Central	65	738	0	0	0	0	0	0.00	0.00	0.00
LOY021	Wisc Central	64	966	0	0	0	0	0	0.00	0.00	0.00
LOY022	Wisc Central	64	757	0	0	0	0	0	0.00	0.00	0.00
LPA001	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
LUK021	Wisc North	60	1028	0	0	0	0	0	0.00	0.00	0.00
LUP001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
LYN021	Wisc Central	64	255	0	0	0	0	0	0.00	0.00	0.00
LYN022	Wisc Central	64	419	0	0	0	0	0	0.00	0.00	0.00
MAD062	Wisc Central	65	928	0	0	0	0	0	0.00	0.00	0.00
MAD071	Wisc Central	65	733	0	0	0	0	0	0.00	0.00	0.00
MAD072	Wisc Central	65	1446	0	0	0	0	0	0.00	0.00	0.00
MAF072	Wisc South	68	664	0	0	0	0	0	0.00	0.00	0.00
MAF073	Wisc South	68	368	0	0	0	0	0	0.00	0.00	0.00
MCO001	Wisc North	63	203	0	0	0	0	0	0.00	0.00	0.00
MCO021	Wisc North	63	397	0	0	0	0	0	0.00	0.00	0.00
MDR021	Wisc Central	66	147	0	0	0	0	0	0.00	0.00	0.00
MEN021	Wisc Central	66	900	0	0	0	0	0	0.00	0.00	0.00
MEN022	Wisc Central	66	1581	0	0	0	0	0	0.00	0.00	0.00
MEN023	Wisc Central	66	338	0	0	0	0	0	0.00	0.00	0.00
MEN031	Wisc Central	66	25	0	0	0	0	0	0.00	0.00	0.00
MEN032	Wisc Central	66	1767	0	0	0	0	0	0.00	0.00	0.00
MER021	Wisc South	67	763	0	0	0	0	0	0.00	0.00	0.00
MEY021	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
MFN021	Wisc Central	64	0	0	0	0	0	0	0.00	0.00	0.00
MFS021	Wisc Central	64	0	0	0	0	0	0	0.00	0.00	0.00
MFW021	Wisc Central	64	0	0	0	0	0	0	0.00	0.00	0.00
MID001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
MLN001	Wisc North	62	595	0	0	1	595	113645	191.00	1.00	191.00
MLS021	Wisc South	67	520	0	0	0	0	0	0.00	0.00	0.00
MLS022	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
MNR021	Wisc North	62	95	0	0	0	0	0	0.00	0.00	0.00
MNR022	Wisc North	62	110	0	0	0	0	0	0.00	0.00	0.00
MNT001	Wisc North	63	838	0	0	0	0	0	0.00	0.00	0.00
MSE021	Wisc North	62	29	0	0	0	0	0	0.00	0.00	0.00
NAP021	Wisc Central	65	520	0	0	0	0	0	0.00	0.00	0.00
NAP022	Wisc Central	65	1437	0	0	0	0	0	0.00	0.00	0.00
NEL021	Wisc Central	66	247	0	0	1	245	18865	76.38	0.99	77.00
NFO021	Wisc North	62	1062	0	0	0	0	0	0.00	0.00	0.00
NFO031	Wisc North	62	1328	0	0	0	0	0	0.00	0.00	0.00
NLV021	Wisc Central	64	987	0	0	0	0	0	0.00	0.00	0.00
NLV031	Wisc Central	64	589	0	0	0	0	0	0.00	0.00	0.00
NLV032	Wisc Central	64	545	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers Mainline(Feeder Level Only) Excluding All Storm Conditions With MAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
NRA001	Wisc North	63	470	0	0	0	0	0	0.00	0.00	0.00
NSI001	Wisc North	63	631	0	0	1	631	25871	41.00	1.00	41.00
OGE021	Wisc North	62	172	0	0	0	0	0	0.00	0.00	0.00
OJB021	Wisc North	63	5	0	0	0	0	0	0.00	0.00	0.00
OLU021	Wisc North	62	95	0	0	0	0	0	0.00	0.00	0.00
ONA061	Wisc South	68	2286	0	0	0	0	0	0.00	0.00	0.00
ONA062	Wisc South	68	938	0	0	0	0	0	0.00	0.00	0.00
OPK010	Wisc North	60	348	0	0	0	0	0	0.00	0.00	0.00
OPK011	Wisc North	60	9	0	0	0	0	0	0.00	0.00	0.00
OSC032	Wisc North	60	0	0	0	0	0	0	0.00	0.00	0.00
OTC022	Wisc Central	65	1592	0	0	1	1584	68112	42.78	0.99	43.00
OTC023	Wisc Central	65	1376	0	0	2	2746	90618	65.86	2.00	33.00
OTC031	Wisc Central	65	1757	0	0	1	1722	117096	66.65	0.98	68.00
OWN021	Wisc Central	64	1246	0	0	0	0	0	0.00	0.00	0.00
PEP021	Wisc Central	66	893	0	0	0	0	0	0.00	0.00	0.00
PHL021	Wisc North	62	743	0	0	0	0	0	0.00	0.00	0.00
PHL031	Wisc North	62	1003	0	0	0	0	0	0.00	0.00	0.00
PHL032	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
PMP001	Wisc North	61	6	0	0	0	0	0	0.00	0.00	0.00
POK061	Wisc North	61	791	0	0	0	0	0	0.00	0.00	0.00
POK062	Wisc North	61	890	0	0	0	0	0	0.00	0.00	0.00
PRE022	Wisc North	60	721	0	0	0	0	0	0.00	0.00	0.00
PRS563	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
PRS565	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
PSI021	Wisc North	63	1275	0	0	2	2020	294478	230.96	1.58	145.78
PTW001	Wisc North	62	312	0	0	0	0	0	0.00	0.00	0.00
RBL021	Wisc North	62	138	0	0	0	0	0	0.00	0.00	0.00
RBL022	Wisc North	62	176	0	0	0	0	0	0.00	0.00	0.00
RBL023	Wisc North	62	660	0	0	0	0	0	0.00	0.00	0.00
RCD022	Wisc Central	66	105	0	0	0	0	0	0.00	0.00	0.00
RCD023	Wisc Central	66	906	0	0	0	0	0	0.00	0.00	0.00
RCD024	Wisc Central	66	123	0	0	0	0	0	0.00	0.00	0.00
RCD031	Wisc Central	66	3	0	0	0	0	0	0.00	0.00	0.00
RCD032	Wisc Central	66	6	0	0	0	0	0	0.00	0.00	0.00
RCD033	Wisc Central	66	3	0	0	0	0	0	0.00	0.00	0.00
RCL021	Wisc North	61	51	0	0	2	102	867	17.00	2.00	8.50
RCL029	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
RCL031	Wisc North	61	1381	0	0	4	5489	150651	109.09	3.97	27.45
RCL039	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
RIC082	Wisc North	60	4	0	0	0	0	0	0.00	0.00	0.00
RID081	Wisc North	61	539	0	0	1	534	41012	76.09	0.99	76.80
RID082	Wisc North	61	742	0	0	0	0	0	0.00	0.00	0.00
RKL021	Wisc South	67	743	0	0	0	0	0	0.00	0.00	0.00
RSH081	Wisc North	60	2268	0	0	0	0	0	0.00	0.00	0.00
RSH091	Wisc North	60	958	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With MAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
RSH092	Wisc North	60	327	0	0	0	0	0	0.00	0.00	0.00
RSK021	Wisc Central	66	683	0	0	0	0	0	0.00	0.00	0.00
RVW021	Wisc Central	65	82	0	0	0	0	0	0.00	0.00	0.00
SAX001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
SCF024	Wisc North	60	224	0	0	0	0	0	0.00	0.00	0.00
SCF025	Wisc North	60	992	0	0	0	0	0	0.00	0.00	0.00
SHW021	Wisc Central	65	262	0	0	0	0	0	0.00	0.00	0.00
SLA001	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
SLD021	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
SND021	Wisc North	61	2555	0	0	0	0	0	0.00	0.00	0.00
SOE001	Wisc North	62	511	0	0	0	0	0	0.00	0.00	0.00
SPA021	Wisc South	67	471	0	0	0	0	0	0.00	0.00	0.00
SPA022	Wisc South	67	1454	0	0	0	0	0	0.00	0.00	0.00
SPA031	Wisc South	67	1547	0	0	0	0	0	0.00	0.00	0.00
SPA033	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
SPE021	Wisc Central	64	1026	0	0	0	0	0	0.00	0.00	0.00
SPN001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
SPR021	Wisc Central	66	761	0	0	0	0	0	0.00	0.00	0.00
STA081	Wisc Central	64	199	0	0	0	0	0	0.00	0.00	0.00
STA082	Wisc Central	64	608	0	0	0	0	0	0.00	0.00	0.00
STA083	Wisc Central	64	803	0	0	0	0	0	0.00	0.00	0.00
STE471	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
STE472	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
STM021	Wisc Central	65	522	0	0	0	0	0	0.00	0.00	0.00
STM022	Wisc Central	65	1000	0	0	0	0	0	0.00	0.00	0.00
SUM211	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
SUM212	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
SUP021	Wisc North	63	152	0	0	1	151	16157	106.30	0.99	107.00
SVN001	Wisc North	62	293	0	0	0	0	0	0.00	0.00	0.00
SWC061	Wisc South	68	355	0	0	0	0	0	0.00	0.00	0.00
SWC062	Wisc South	68	12	0	0	0	0	0	0.00	0.00	0.00
SWC071	Wisc South	68	257	0	0	0	0	0	0.00	0.00	0.00
SWC072	Wisc South	68	1184	0	0	0	0	0	0.00	0.00	0.00
SXF021	Wisc North	63	204	0	0	1	204	21828	107.00	1.00	107.00
TAD021	Wisc North	61	345	0	0	0	0	0	0.00	0.00	0.00
THA001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
TLA001	Wisc North	63	1	0	0	0	0	0	0.00	0.00	0.00
TMU001	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
TRE021	Wisc South	67	18	0	0	0	0	0	0.00	0.00	0.00
TRL081	Wisc North	61	822	0	0	0	0	0	0.00	0.00	0.00
TRL082	Wisc North	61	363	0	0	1	362	52490	144.60	1.00	145.00
TRP021	Wisc Central	64	512	0	0	0	0	0	0.00	0.00	0.00
TRP022	Wisc Central	64	917	0	0	0	0	0	0.00	0.00	0.00
TRX021	Wisc Central	65	1046	0	0	1	975	33150	31.69	0.93	34.00
TRX022	Wisc Central	65	748	0	0	0	0	0	0.00	0.00	0.00

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Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
		Grand Total:	233246	93	109453	69	65882	8192834	35.13	0.28	124.36
TRX023	Wisc Central	65	644	0	0	0	0	0	0.00	0.00	0.00
TRX031	Wisc Central	65	77	0	0	0	0	0	0.00	0.00	0.00
TRX032	Wisc Central	65	1859	0	0	0	0	0	0.00	0.00	0.00
TRX033	Wisc Central	65	381	0	0	0	0	0	0.00	0.00	0.00
TST001	Wisc North	62	300	0	0	1	300	6900	23.00	1.00	23.00
TUR021	Wisc North	60	299	0	0	0	0	0	0.00	0.00	0.00
TUR022	Wisc North	60	325	0	0	0	0	0	0.00	0.00	0.00
TWN021	Wisc North	63	697	0	0	1	698	28618	41.06	1.00	41.00
TWN022	Wisc North	63	683	0	0	1	681	27921	40.88	1.00	41.00
TWT081	Wisc North	60	1158	0	0	0	0	0	0.00	0.00	0.00
UPS001	Wisc North	63	45	0	0	0	0	0	0.00	0.00	0.00
USR533	Wisc Central	65	6	0	0	0	0	0	0.00	0.00	0.00
USR534	Wisc Central	65	9	0	0	0	0	0	0.00	0.00	0.00
VAV001	Wisc North	62	284	0	0	0	0	0	0.00	0.00	0.00
VIR002	Wisc South	67	499	0	0	0	0	0	0.00	0.00	0.00
VIR003	Wisc South	67	905	0	0	0	0	0	0.00	0.00	0.00
WAF001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
WBI021	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
WBN021	Wisc North	62	836	0	0	0	0	0	0.00	0.00	0.00
WBN022	Wisc North	62	446	0	0	0	0	0	0.00	0.00	0.00
WBY171	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
WDB001	Wisc North	63	7	0	0	0	0	0	0.00	0.00	0.00
WDM081	Wisc North	61	758	0	0	1	675	108300	142.88	0.89	160.44
WHH022	Wisc South	67	562	0	0	0	0	0	0.00	0.00	0.00
WHH023	Wisc South	67	752	0	0	0	0	0	0.00	0.00	0.00
WHR021	Wisc North	62	150	0	0	1	116	18676	124.51	0.77	161.00
WHR022	Wisc North	62	226	0	0	0	0	0	0.00	0.00	0.00
WHR023	Wisc North	62	241	0	0	0	0	0	0.00	0.00	0.00
WIB569	Wisc Central	65	1302	0	0	0	0	0	0.00	0.00	0.00
WLR081	Wisc North	60	1737	0	0	1	745	32035	18.44	0.43	43.00
WND081	Wisc Central	66	269	0	0	0	0	0	0.00	0.00	0.00
WSM081	Wisc South	67	1287	0	0	0	0	0	0.00	0.00	0.00
WTH001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
WTL061	Wisc North	61	1288	0	0	0	0	0	0.00	0.00	0.00
WTL062	Wisc North	61	1116	0	0	0	0	0	0.00	0.00	0.00
YLR081	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
YLR082	Wisc North	61	1089	0	0	0	0	0	0.00	0.00	0.00
			233246	93	109453	69	65882	8192834	35.13	0.28	124.36

TAB 2.2.3

Worst Performing Feeders
With
SAIFI >= 5

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With SAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
						NONE					
COU078	Wisc South	68	1212	2	2418	4	4836	278899	230.11	3.99	57.67
RCL031	Wisc North	61	1381	0	0	4	5489	150651	109.09	3.97	27.45
TCN092	Wisc Central	64	2087	8	17058	2	4280	1750520	838.77	2.05	409.00
COU079	Wisc South	68	547	1	547	2	1094	12034	22.00	2.00	11.00
RCL021	Wisc North	61	51	0	0	2	102	867	17.00	2.00	8.50
OTC023	Wisc Central	65	1376	0	0	2	2746	90618	65.86	2.00	33.00
CUM081	Wisc North	60	229	1	228	1	456	34656	151.34	1.99	76.00
HAY082	Wisc Central	66	1713	0	0	1	3404	418692	244.42	1.99	123.00
OTC021	Wisc Central	65	553	1	533	2	1077	46339	83.80	1.95	43.03
ELS034	Wisc Central	65	311	1	303	2	601	40132	129.04	1.93	66.78
PSI021	Wisc North	63	1275	0	0	2	2020	294478	230.96	1.58	145.78
GMT021	Wisc North	60	198	0	0	2	243	35775	180.68	1.23	147.22
HYD032	Wisc Central	65	2687	0	0	1	2950	76700	28.54	1.10	26.00
PRE021	Wisc North	60	1238	1	1292	1	1307	132007	106.63	1.06	101.00
SST061	Wisc North	62	537	1	542	1	542	35772	66.61	1.01	66.00
AMY001	Wisc North	60	558	0	0	1	560	8960	16.06	1.00	16.00
TWN021	Wisc North	63	697	0	0	1	698	28618	41.06	1.00	41.00
PRN021	Wisc North	62	776	1	775	1	777	41181	53.07	1.00	53.00
TCN081	Wisc Central	64	2068	1	2068	1	2070	1544220	746.72	1.00	746.00
MAF071	Wisc South	68	1064	1	1065	1	1065	24495	23.02	1.00	23.00
AMC001	Wisc North	62	3	1	3	1	3	198	66.00	1.00	66.00
MLN001	Wisc North	62	595	0	0	1	595	113645	191.00	1.00	191.00
NSI001	Wisc North	63	631	0	0	1	631	25871	41.00	1.00	41.00
SXF021	Wisc North	63	204	0	0	1	204	21828	107.00	1.00	107.00
TST001	Wisc North	62	300	0	0	1	300	6900	23.00	1.00	23.00
CHF022	Wisc Central	65	1672	1	1670	1	1670	235470	140.83	1.00	141.00
SST062	Wisc North	62	586	1	585	1	585	38610	65.89	1.00	66.00
TCN091	Wisc Central	64	949	2	1894	1	947	626914	660.60	1.00	662.00
LAX062	Wisc South	68	1835	1	1840	1	1831	49437	26.94	1.00	27.00
TRL082	Wisc North	61	363	0	0	1	362	52490	144.60	1.00	145.00
TWN022	Wisc North	63	683	0	0	1	681	27921	40.88	1.00	41.00
AYR022	Wisc North	63	893	0	0	1	890	123710	138.53	1.00	139.00
GEN198	Wisc South	68	274	0	0	1	273	38493	140.49	1.00	141.00
BAY021	Wisc North	60	813	0	0	1	810	182250	224.17	1.00	225.00
COU061	Wisc South	68	1570	1	1564	1	1564	9384	5.98	1.00	6.00
HLA071	Wisc South	68	1223	0	0	1	1218	105966	86.64	1.00	87.00
OTC022	Wisc Central	65	1592	0	0	1	1584	68112	42.78	0.99	43.00
CHF033	Wisc Central	65	562	0	0	1	559	78819	140.25	0.99	141.00
SUP021	Wisc North	63	152	0	0	1	151	16157	106.30	0.99	107.00
OTC032	Wisc Central	65	1484	1	1466	1	1472	73600	49.60	0.99	50.00
NEL021	Wisc Central	66	247	0	0	1	245	18865	76.38	0.99	77.00
RID081	Wisc North	61	539	0	0	1	534	41012	76.09	0.99	76.80

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With SAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
OSC021	Wisc North	60	1243	1	1230	1	1230	30750	24.74	0.99	25.00
MRC022	Wisc North	63	1537	3	4543	1	1517	109224	71.06	0.99	72.00
AYR021	Wisc North	63	831	0	0	1	816	98736	118.82	0.98	121.00
OTC031	Wisc Central	65	1757	0	0	1	1722	117096	66.65	0.98	68.00
WLR091	Wisc North	60	2552	1	2531	1	2487	258350	101.23	0.97	103.88
LON062	Wisc Central	65	483	0	0	1	467	33624	69.61	0.97	72.00
EGP211	Wisc Central	65	1232	0	0	1	1169	101703	82.55	0.95	87.00
TRX021	Wisc Central	65	1046	0	0	1	975	33150	31.69	0.93	34.00
WDM081	Wisc North	61	758	0	0	1	675	108300	142.88	0.89	160.44
WHR021	Wisc North	62	150	0	0	1	116	18676	124.51	0.77	161.00
RTL021	Wisc North	63	1048	4	4182	1	488	233264	222.58	0.47	478.00
DRS211	Wisc North	61	109	0	0	1	49	16660	152.84	0.45	340.00
WLR081	Wisc North	60	1737	0	0	1	745	32035	18.44	0.43	43.00
ALC021	Wisc South	67	395	0	0	0	0	0	0.00	0.00	0.00
ALC022	Wisc South	67	224	0	0	0	0	0	0.00	0.00	0.00
ALM559	Wisc Central	66	507	0	0	0	0	0	0.00	0.00	0.00
ALM560	Wisc Central	66	15	0	0	0	0	0	0.00	0.00	0.00
ALN001	Wisc North	63	9	0	0	0	0	0	0.00	0.00	0.00
AMC002	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
ARK081	Wisc Central	66	85	0	0	0	0	0	0.00	0.00	0.00
ARK082	Wisc Central	66	598	0	0	0	0	0	0.00	0.00	0.00
AUG021	Wisc Central	65	330	0	0	0	0	0	0.00	0.00	0.00
AUG022	Wisc Central	65	691	0	0	0	0	0	0.00	0.00	0.00
BAV001	Wisc North	62	722	0	0	0	0	0	0.00	0.00	0.00
BEA414	Wisc North	60	850	0	0	0	0	0	0.00	0.00	0.00
BEA415	Wisc North	60	386	0	0	0	0	0	0.00	0.00	0.00
BES021	Wisc North	63	1065	0	0	0	0	0	0.00	0.00	0.00
BES022	Wisc North	63	1084	0	0	0	0	0	0.00	0.00	0.00
BFT061	Wisc North	62	581	0	0	0	0	0	0.00	0.00	0.00
BFT062	Wisc North	62	640	0	0	0	0	0	0.00	0.00	0.00
BGR020	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
BIR021	Wisc North	61	951	0	0	0	0	0	0.00	0.00	0.00
BIR022	Wisc North	61	578	0	0	0	0	0	0.00	0.00	0.00
BKD021	Wisc North	62	293	0	0	0	0	0	0.00	0.00	0.00
BLA021	Wisc South	67	683	0	0	0	0	0	0.00	0.00	0.00
BLA022	Wisc South	67	17	0	0	0	0	0	0.00	0.00	0.00
BLA023	Wisc South	67	556	0	0	0	0	0	0.00	0.00	0.00
BLD021	Wisc North	63	639	0	0	0	0	0	0.00	0.00	0.00
BLR020	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
BMU021	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
BNT021	Wisc North	62	472	2	942	0	0	0	0.00	0.00	0.00
BRA001	Wisc North	63	1	0	0	0	0	0	0.00	0.00	0.00
BYD001	Wisc Central	64	318	0	0	0	0	0	0.00	0.00	0.00
BYF021	Wisc North	62	2214	0	0	0	0	0	0.00	0.00	0.00
CAB021	Wisc North	61	462	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With SAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
CAB022	Wisc North	61	381	0	0	0	0	0	0.00	0.00	0.00
CAD001	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
CAD061	Wisc Central	65	54	0	0	0	0	0	0.00	0.00	0.00
CAT021	Wisc South	67	494	0	0	0	0	0	0.00	0.00	0.00
CEF081	Wisc Central	66	836	0	0	0	0	0	0.00	0.00	0.00
CFO001	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
CHF021	Wisc Central	65	667	0	0	0	0	0	0.00	0.00	0.00
CHF023	Wisc Central	65	818	1	887	0	0	0	0.00	0.00	0.00
CHF024	Wisc Central	65	1366	0	0	0	0	0	0.00	0.00	0.00
CHF031	Wisc Central	65	432	0	0	0	0	0	0.00	0.00	0.00
CHF032	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
CHF034	Wisc Central	65	209	0	0	0	0	0	0.00	0.00	0.00
CLL081	Wisc North	60	504	1	497	0	0	0	0.00	0.00	0.00
CLL082	Wisc North	60	406	0	0	0	0	0	0.00	0.00	0.00
CMR021	Wisc North	61	1119	0	0	0	0	0	0.00	0.00	0.00
CNR001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
COC021	Wisc Central	66	409	0	0	0	0	0	0.00	0.00	0.00
CON021	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
COR197	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
COR198	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
COU062	Wisc South	68	1377	0	0	0	0	0	0.00	0.00	0.00
COU068	Wisc South	68	1876	1	1876	0	0	0	0.00	0.00	0.00
COU069	Wisc South	68	471	0	0	0	0	0	0.00	0.00	0.00
COU071	Wisc South	68	1333	3	3951	0	0	0	0.00	0.00	0.00
COU077	Wisc South	68	1795	0	0	0	0	0	0.00	0.00	0.00
CPM021	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
CPM022	Wisc South	67	5	0	0	0	0	0	0.00	0.00	0.00
CPM023	Wisc South	67	6	0	0	0	0	0	0.00	0.00	0.00
CPM024	Wisc South	67	399	0	0	0	0	0	0.00	0.00	0.00
CPM025	Wisc South	67	225	0	0	0	0	0	0.00	0.00	0.00
CPM026	Wisc South	67	401	0	0	0	0	0	0.00	0.00	0.00
CPM032	Wisc South	67	618	0	0	0	0	0	0.00	0.00	0.00
CPM033	Wisc South	67	393	0	0	0	0	0	0.00	0.00	0.00
CPM034	Wisc South	67	52	0	0	0	0	0	0.00	0.00	0.00
CPM035	Wisc South	67	108	0	0	0	0	0	0.00	0.00	0.00
CRN001	Wisc North	62	118	0	0	0	0	0	0.00	0.00	0.00
CSH021	Wisc South	67	121	0	0	0	0	0	0.00	0.00	0.00
CSH022	Wisc South	67	434	0	0	0	0	0	0.00	0.00	0.00
CTA021	Wisc North	62	316	0	0	0	0	0	0.00	0.00	0.00
CTS021	Wisc Central	64	730	0	0	0	0	0	0.00	0.00	0.00
CUM082	Wisc North	60	101	1	101	0	0	0	0.00	0.00	0.00
CVA021	Wisc South	67	671	1	665	0	0	0	0.00	0.00	0.00
CVA022	Wisc South	67	378	1	375	0	0	0	0.00	0.00	0.00
DRM021	Wisc North	61	167	0	0	0	0	0	0.00	0.00	0.00
DRS212	Wisc North	61	611	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers Mainline(Feeder Level Only) Excluding All Storm Conditions With SAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
DUR021	Wisc Central	66	482	0	0	0	0	0	0.00	0.00	0.00
DUR022	Wisc Central	66	1021	0	0	0	0	0	0.00	0.00	0.00
EGA021	Wisc Central	66	117	0	0	0	0	0	0.00	0.00	0.00
EGA022	Wisc Central	66	359	0	0	0	0	0	0.00	0.00	0.00
EGP212	Wisc Central	65	81	0	0	0	0	0	0.00	0.00	0.00
ELK001	Wisc Central	65	421	0	0	0	0	0	0.00	0.00	0.00
ELL021	Wisc North	60	1044	0	0	0	0	0	0.00	0.00	0.00
ELL022	Wisc North	60	319	0	0	0	0	0	0.00	0.00	0.00
ELM021	Wisc Central	66	224	0	0	0	0	0	0.00	0.00	0.00
ELM022	Wisc Central	66	596	0	0	0	0	0	0.00	0.00	0.00
ELS021	Wisc Central	65	421	2	848	0	0	0	0.00	0.00	0.00
ELS022	Wisc Central	65	473	0	0	0	0	0	0.00	0.00	0.00
ELS023	Wisc Central	65	15	0	0	0	0	0	0.00	0.00	0.00
ELS024	Wisc Central	65	94	0	0	0	0	0	0.00	0.00	0.00
ELS027	Wisc Central	65	2114	0	0	0	0	0	0.00	0.00	0.00
ELS031	Wisc Central	65	744	0	0	0	0	0	0.00	0.00	0.00
ELS032	Wisc Central	65	1188	0	0	0	0	0	0.00	0.00	0.00
ELS033	Wisc Central	65	1491	0	0	0	0	0	0.00	0.00	0.00
ETK021	Wisc South	67	338	1	337	0	0	0	0.00	0.00	0.00
EWA001	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
FAY001	Wisc North	62	256	0	0	0	0	0	0.00	0.00	0.00
FEN061	Wisc South	68	1183	0	0	0	0	0	0.00	0.00	0.00
FEN062	Wisc South	68	482	1	489	0	0	0	0.00	0.00	0.00
FEN063	Wisc South	68	597	1	600	0	0	0	0.00	0.00	0.00
FEN071	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
FEN072	Wisc South	68	840	1	845	0	0	0	0.00	0.00	0.00
FEN073	Wisc South	68	957	1	955	0	0	0	0.00	0.00	0.00
FIN021	Wisc North	61	659	0	0	0	0	0	0.00	0.00	0.00
FIN022	Wisc North	61	2000	0	0	0	0	0	0.00	0.00	0.00
FLB010	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
FLC097	Wisc Central	65	623	0	0	0	0	0	0.00	0.00	0.00
GAL021	Wisc South	67	1269	0	0	0	0	0	0.00	0.00	0.00
GAS62I	Wisc North	62	0	0	0	0	0	0	0.00	0.00	0.00
GAS62S	Wisc North	62	4	0	0	0	0	0	0.00	0.00	0.00
GAS63E	Wisc North	63	135	0	0	0	0	0	0.00	0.00	0.00
GAS63W	Wisc North	63	404	0	0	0	0	0	0.00	0.00	0.00
GAS651	Wisc Central	65	2	0	0	0	0	0	0.00	0.00	0.00
GAS681	Wisc South	68	23	0	0	0	0	0	0.00	0.00	0.00
GAS68A	Wisc South	68	2	0	0	0	0	0	0.00	0.00	0.00
GAS68B	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
GAS68C	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
GDN021	Wisc North	62	420	2	838	0	0	0	0.00	0.00	0.00
GEN197	Wisc South	68	744	0	0	0	0	0	0.00	0.00	0.00
GLA021	Wisc North	63	75	0	0	0	0	0	0.00	0.00	0.00
GLM021	Wisc Central	64	480	0	0	0	0	0	0.00	0.00	0.00

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Mainline(Feeder Level Only) Excluding All Storm Conditions
With SAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
GOG001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
GRV021	Wisc North	62	105	0	0	0	0	0	0.00	0.00	0.00
GST021	Wisc North	60	410	0	0	0	0	0	0.00	0.00	0.00
GST023	Wisc North	60	578	0	0	0	0	0	0.00	0.00	0.00
GVA021	Wisc South	67	323	0	0	0	0	0	0.00	0.00	0.00
HAF001	Wisc South	67	110	0	0	0	0	0	0.00	0.00	0.00
HAL062	Wisc Central	65	1637	0	0	0	0	0	0.00	0.00	0.00
HAL063	Wisc Central	65	1486	0	0	0	0	0	0.00	0.00	0.00
HAL072	Wisc Central	65	1144	0	0	0	0	0	0.00	0.00	0.00
HAL073	Wisc Central	65	417	0	0	0	0	0	0.00	0.00	0.00
HAY081	Wisc Central	66	655	0	0	0	0	0	0.00	0.00	0.00
HER001	Wisc North	62	142	0	0	0	0	0	0.00	0.00	0.00
HGN021	Wisc North	63	6	0	0	0	0	0	0.00	0.00	0.00
HLA062	Wisc South	68	1439	0	0	0	0	0	0.00	0.00	0.00
HLA063	Wisc South	68	0	0	0	0	0	0	0.00	0.00	0.00
HUR021	Wisc North	63	386	0	0	0	0	0	0.00	0.00	0.00
HUR022	Wisc North	63	866	0	0	0	0	0	0.00	0.00	0.00
HWD021	Wisc North	61	556	0	0	0	0	0	0.00	0.00	0.00
HWD022	Wisc North	61	677	0	0	0	0	0	0.00	0.00	0.00
HWK021	Wisc North	61	224	0	0	0	0	0	0.00	0.00	0.00
HWY021	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
HYD031	Wisc Central	65	55	0	0	0	0	0	0.00	0.00	0.00
HYD211	Wisc Central	65	42	0	0	0	0	0	0.00	0.00	0.00
HYD212	Wisc Central	65	71	0	0	0	0	0	0.00	0.00	0.00
IHD021	Wisc North	63	326	0	0	0	0	0	0.00	0.00	0.00
INO001	Wisc North	62	0	0	0	0	0	0	0.00	0.00	0.00
IRB001	Wisc North	63	148	0	0	0	0	0	0.00	0.00	0.00
IRP001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
IRP002	Wisc North	63	0	0	0	0	0	0	0.00	0.00	0.00
IRW001	Wisc North	63	344	0	0	0	0	0	0.00	0.00	0.00
IRW002	Wisc North	63	566	0	0	0	0	0	0.00	0.00	0.00
IRW003	Wisc North	63	525	0	0	0	0	0	0.00	0.00	0.00
IRW004	Wisc North	63	0	0	0	0	0	0	0.00	0.00	0.00
IRW005	Wisc North	63	315	0	0	0	0	0	0.00	0.00	0.00
JEF211	Wisc Central	65	106	1	99	0	0	0	0.00	0.00	0.00
JEF221	Wisc Central	65	74	0	0	0	0	0	0.00	0.00	0.00
JIM021	Wisc Central	65	359	0	0	0	0	0	0.00	0.00	0.00
JKS021	Wisc North	63	4	0	0	0	0	0	0.00	0.00	0.00
KIN081	Wisc North	60	551	0	0	0	0	0	0.00	0.00	0.00
LAX000	Wisc South	68	36	0	0	0	0	0	0.00	0.00	0.00
LAX063	Wisc South	68	1481	0	0	0	0	0	0.00	0.00	0.00
LAX065	Wisc South	68	941	0	0	0	0	0	0.00	0.00	0.00
LAX067	Wisc South	68	789	0	0	0	0	0	0.00	0.00	0.00
LAX074	Wisc South	68	638	1	638	0	0	0	0.00	0.00	0.00
LAX075	Wisc South	68	1615	1	1616	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
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With SAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
LAX076	Wisc South	68	1153	0	0	0	0	0	0.00	0.00	0.00
LAX077	Wisc South	68	268	0	0	0	0	0	0.00	0.00	0.00
LDP001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
LKC081	Wisc North	60	1266	0	0	0	0	0	0.00	0.00	0.00
LKH010	Wisc Central	64	3	0	0	0	0	0	0.00	0.00	0.00
LKH020	Wisc Central	64	3	0	0	0	0	0	0.00	0.00	0.00
LON061	Wisc Central	65	1328	0	0	0	0	0	0.00	0.00	0.00
LON063	Wisc Central	65	216	1	204	0	0	0	0.00	0.00	0.00
LON071	Wisc Central	65	495	0	0	0	0	0	0.00	0.00	0.00
LON072	Wisc Central	65	738	0	0	0	0	0	0.00	0.00	0.00
LOY021	Wisc Central	64	966	0	0	0	0	0	0.00	0.00	0.00
LOY022	Wisc Central	64	757	0	0	0	0	0	0.00	0.00	0.00
LPA001	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
LUK021	Wisc North	60	1028	0	0	0	0	0	0.00	0.00	0.00
LUP001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
LYN021	Wisc Central	64	255	0	0	0	0	0	0.00	0.00	0.00
LYN022	Wisc Central	64	419	0	0	0	0	0	0.00	0.00	0.00
MAD061	Wisc Central	65	312	1	315	0	0	0	0.00	0.00	0.00
MAD062	Wisc Central	65	928	0	0	0	0	0	0.00	0.00	0.00
MAD071	Wisc Central	65	733	0	0	0	0	0	0.00	0.00	0.00
MAD072	Wisc Central	65	1446	0	0	0	0	0	0.00	0.00	0.00
MAF061	Wisc South	68	745	1	272	0	0	0	0.00	0.00	0.00
MAF062	Wisc South	68	51	1	51	0	0	0	0.00	0.00	0.00
MAF063	Wisc South	68	1543	1	1543	0	0	0	0.00	0.00	0.00
MAF072	Wisc South	68	664	0	0	0	0	0	0.00	0.00	0.00
MAF073	Wisc South	68	368	0	0	0	0	0	0.00	0.00	0.00
MCO001	Wisc North	63	203	0	0	0	0	0	0.00	0.00	0.00
MCO021	Wisc North	63	397	0	0	0	0	0	0.00	0.00	0.00
MDR021	Wisc Central	66	147	0	0	0	0	0	0.00	0.00	0.00
MEN021	Wisc Central	66	900	0	0	0	0	0	0.00	0.00	0.00
MEN022	Wisc Central	66	1581	0	0	0	0	0	0.00	0.00	0.00
MEN023	Wisc Central	66	338	0	0	0	0	0	0.00	0.00	0.00
MEN031	Wisc Central	66	25	0	0	0	0	0	0.00	0.00	0.00
MEN032	Wisc Central	66	1767	0	0	0	0	0	0.00	0.00	0.00
MER021	Wisc South	67	763	0	0	0	0	0	0.00	0.00	0.00
MEY021	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
MFN021	Wisc Central	64	0	0	0	0	0	0	0.00	0.00	0.00
MFS021	Wisc Central	64	0	0	0	0	0	0	0.00	0.00	0.00
MFW021	Wisc Central	64	0	0	0	0	0	0	0.00	0.00	0.00
MID001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
MLS021	Wisc South	67	520	0	0	0	0	0	0.00	0.00	0.00
MLS022	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
MNR021	Wisc North	62	95	0	0	0	0	0	0.00	0.00	0.00
MNR022	Wisc North	62	110	0	0	0	0	0	0.00	0.00	0.00
MNT001	Wisc North	63	838	0	0	0	0	0	0.00	0.00	0.00

Xcel Energy - Wisconsin Year-End Feeder Worst Performers
Mainline(Feeder Level Only) Excluding All Storm Conditions
With SAIFI >= 5.0

Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
MRC021	Wisc North	63	114	4	456	0	0	0	0.00	0.00	0.00
MSE021	Wisc North	62	29	0	0	0	0	0	0.00	0.00	0.00
NAP021	Wisc Central	65	520	0	0	0	0	0	0.00	0.00	0.00
NAP022	Wisc Central	65	1437	0	0	0	0	0	0.00	0.00	0.00
NFO021	Wisc North	62	1062	0	0	0	0	0	0.00	0.00	0.00
NFO031	Wisc North	62	1328	0	0	0	0	0	0.00	0.00	0.00
NLV021	Wisc Central	64	987	0	0	0	0	0	0.00	0.00	0.00
NLV031	Wisc Central	64	589	0	0	0	0	0	0.00	0.00	0.00
NLV032	Wisc Central	64	545	0	0	0	0	0	0.00	0.00	0.00
NRA001	Wisc North	63	470	0	0	0	0	0	0.00	0.00	0.00
OGE021	Wisc North	62	172	0	0	0	0	0	0.00	0.00	0.00
OJB021	Wisc North	63	5	0	0	0	0	0	0.00	0.00	0.00
OLU021	Wisc North	62	95	0	0	0	0	0	0.00	0.00	0.00
ONA061	Wisc South	68	2286	0	0	0	0	0	0.00	0.00	0.00
ONA062	Wisc South	68	938	0	0	0	0	0	0.00	0.00	0.00
OPK010	Wisc North	60	348	0	0	0	0	0	0.00	0.00	0.00
OPK011	Wisc North	60	9	0	0	0	0	0	0.00	0.00	0.00
OPY081	Wisc North	61	615	2	1222	0	0	0	0.00	0.00	0.00
OSC022	Wisc North	60	706	1	701	0	0	0	0.00	0.00	0.00
OSC031	Wisc North	60	62	1	62	0	0	0	0.00	0.00	0.00
OSC032	Wisc North	60	0	0	0	0	0	0	0.00	0.00	0.00
OWN021	Wisc Central	64	1246	0	0	0	0	0	0.00	0.00	0.00
PEP021	Wisc Central	66	893	0	0	0	0	0	0.00	0.00	0.00
PHL021	Wisc North	62	743	0	0	0	0	0	0.00	0.00	0.00
PHL031	Wisc North	62	1003	0	0	0	0	0	0.00	0.00	0.00
PHL032	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
PMP001	Wisc North	61	6	0	0	0	0	0	0.00	0.00	0.00
POK061	Wisc North	61	791	0	0	0	0	0	0.00	0.00	0.00
POK062	Wisc North	61	890	0	0	0	0	0	0.00	0.00	0.00
PRE022	Wisc North	60	721	0	0	0	0	0	0.00	0.00	0.00
PRS563	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
PRS565	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
PTW001	Wisc North	62	312	0	0	0	0	0	0.00	0.00	0.00
RBL021	Wisc North	62	138	0	0	0	0	0	0.00	0.00	0.00
RBL022	Wisc North	62	176	0	0	0	0	0	0.00	0.00	0.00
RBL023	Wisc North	62	660	0	0	0	0	0	0.00	0.00	0.00
RCD022	Wisc Central	66	105	0	0	0	0	0	0.00	0.00	0.00
RCD023	Wisc Central	66	906	0	0	0	0	0	0.00	0.00	0.00
RCD024	Wisc Central	66	123	0	0	0	0	0	0.00	0.00	0.00
RCD031	Wisc Central	66	3	0	0	0	0	0	0.00	0.00	0.00
RCD032	Wisc Central	66	6	0	0	0	0	0	0.00	0.00	0.00
RCD033	Wisc Central	66	3	0	0	0	0	0	0.00	0.00	0.00
RCL029	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
RCL039	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
RIC081	Wisc North	60	2102	3	6190	0	0	0	0.00	0.00	0.00

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Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
RIC082	Wisc North	60	4	0	0	0	0	0	0.00	0.00	0.00
RID082	Wisc North	61	742	0	0	0	0	0	0.00	0.00	0.00
RKL021	Wisc South	67	743	0	0	0	0	0	0.00	0.00	0.00
RSH081	Wisc North	60	2268	0	0	0	0	0	0.00	0.00	0.00
RSH091	Wisc North	60	958	0	0	0	0	0	0.00	0.00	0.00
RSH092	Wisc North	60	327	0	0	0	0	0	0.00	0.00	0.00
RSK021	Wisc Central	66	683	0	0	0	0	0	0.00	0.00	0.00
RTL022	Wisc North	63	926	4	3688	0	0	0	0.00	0.00	0.00
RVW021	Wisc Central	65	82	0	0	0	0	0	0.00	0.00	0.00
SAX001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
SCF024	Wisc North	60	224	0	0	0	0	0	0.00	0.00	0.00
SCF025	Wisc North	60	992	0	0	0	0	0	0.00	0.00	0.00
SHW021	Wisc Central	65	262	0	0	0	0	0	0.00	0.00	0.00
SLA001	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
SLD021	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
SND021	Wisc North	61	2555	0	0	0	0	0	0.00	0.00	0.00
SOE001	Wisc North	62	511	0	0	0	0	0	0.00	0.00	0.00
SPA021	Wisc South	67	471	0	0	0	0	0	0.00	0.00	0.00
SPA022	Wisc South	67	1454	0	0	0	0	0	0.00	0.00	0.00
SPA031	Wisc South	67	1547	0	0	0	0	0	0.00	0.00	0.00
SPA032	Wisc South	67	1796	1	1784	0	0	0	0.00	0.00	0.00
SPA033	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
SPE021	Wisc Central	64	1026	0	0	0	0	0	0.00	0.00	0.00
SPN001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
SPR021	Wisc Central	66	761	0	0	0	0	0	0.00	0.00	0.00
SQN001	Wisc North	62	6	1	3	0	0	0	0.00	0.00	0.00
STA081	Wisc Central	64	199	0	0	0	0	0	0.00	0.00	0.00
STA082	Wisc Central	64	608	0	0	0	0	0	0.00	0.00	0.00
STA083	Wisc Central	64	803	0	0	0	0	0	0.00	0.00	0.00
STE471	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
STE472	Wisc Central	65	3	0	0	0	0	0	0.00	0.00	0.00
STM021	Wisc Central	65	522	0	0	0	0	0	0.00	0.00	0.00
STM022	Wisc Central	65	1000	0	0	0	0	0	0.00	0.00	0.00
SUM211	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
SUM212	Wisc Central	65	0	0	0	0	0	0	0.00	0.00	0.00
SVN001	Wisc North	62	293	0	0	0	0	0	0.00	0.00	0.00
SWC061	Wisc South	68	355	0	0	0	0	0	0.00	0.00	0.00
SWC062	Wisc South	68	12	0	0	0	0	0	0.00	0.00	0.00
SWC071	Wisc South	68	257	0	0	0	0	0	0.00	0.00	0.00
SWC072	Wisc South	68	1184	0	0	0	0	0	0.00	0.00	0.00
TAD021	Wisc North	61	345	0	0	0	0	0	0.00	0.00	0.00
THA001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
TLA001	Wisc North	63	1	0	0	0	0	0	0.00	0.00	0.00
TMU001	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
TRE021	Wisc South	67	18	0	0	0	0	0	0.00	0.00	0.00

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Feeder	Reg	Div	Custs	# Mom Outs	# Mom Cust Ints	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
	Grand Total:		233246	93	109453	69	65882	8192834	35.13	0.28	124.36
TRL081	Wisc North	61	822	0	0	0	0	0	0.00	0.00	0.00
TRP021	Wisc Central	64	512	0	0	0	0	0	0.00	0.00	0.00
TRP022	Wisc Central	64	917	0	0	0	0	0	0.00	0.00	0.00
TRX022	Wisc Central	65	748	0	0	0	0	0	0.00	0.00	0.00
TRX023	Wisc Central	65	644	0	0	0	0	0	0.00	0.00	0.00
TRX031	Wisc Central	65	77	0	0	0	0	0	0.00	0.00	0.00
TRX032	Wisc Central	65	1859	0	0	0	0	0	0.00	0.00	0.00
TRX033	Wisc Central	65	381	0	0	0	0	0	0.00	0.00	0.00
TUR021	Wisc North	60	299	0	0	0	0	0	0.00	0.00	0.00
TUR022	Wisc North	60	325	0	0	0	0	0	0.00	0.00	0.00
TWT081	Wisc North	60	1158	0	0	0	0	0	0.00	0.00	0.00
UPS001	Wisc North	63	45	0	0	0	0	0	0.00	0.00	0.00
USR533	Wisc Central	65	6	0	0	0	0	0	0.00	0.00	0.00
USR534	Wisc Central	65	9	0	0	0	0	0	0.00	0.00	0.00
VAV001	Wisc North	62	284	0	0	0	0	0	0.00	0.00	0.00
VIR002	Wisc South	67	499	0	0	0	0	0	0.00	0.00	0.00
VIR003	Wisc South	67	905	0	0	0	0	0	0.00	0.00	0.00
VIR061	Wisc South	67	1340	2	2654	0	0	0	0.00	0.00	0.00
WAF001	Wisc North	63	3	0	0	0	0	0	0.00	0.00	0.00
WBI021	Wisc North	62	3	0	0	0	0	0	0.00	0.00	0.00
WBN021	Wisc North	62	836	0	0	0	0	0	0.00	0.00	0.00
WBN022	Wisc North	62	446	0	0	0	0	0	0.00	0.00	0.00
WBY171	Wisc South	67	0	0	0	0	0	0	0.00	0.00	0.00
WDB001	Wisc North	63	7	0	0	0	0	0	0.00	0.00	0.00
WHH022	Wisc South	67	562	0	0	0	0	0	0.00	0.00	0.00
WHH023	Wisc South	67	752	0	0	0	0	0	0.00	0.00	0.00
WHR022	Wisc North	62	226	0	0	0	0	0	0.00	0.00	0.00
WHR023	Wisc North	62	241	0	0	0	0	0	0.00	0.00	0.00
WIB569	Wisc Central	65	1302	0	0	0	0	0	0.00	0.00	0.00
WLR082	Wisc North	60	4784	3	7026	0	0	0	0.00	0.00	0.00
WLR092	Wisc North	60	3783	3	11332	0	0	0	0.00	0.00	0.00
WND081	Wisc Central	66	269	0	0	0	0	0	0.00	0.00	0.00
WSM081	Wisc South	67	1287	0	0	0	0	0	0.00	0.00	0.00
WSM091	Wisc South	67	1991	3	5957	0	0	0	0.00	0.00	0.00
WSM092	Wisc South	67	1098	1	1097	0	0	0	0.00	0.00	0.00
WTH001	Wisc North	61	0	0	0	0	0	0	0.00	0.00	0.00
WTL061	Wisc North	61	1288	0	0	0	0	0	0.00	0.00	0.00
WTL062	Wisc North	61	1116	0	0	0	0	0	0.00	0.00	0.00
YLR081	Wisc North	61	3	0	0	0	0	0	0.00	0.00	0.00
YLR082	Wisc North	61	1089	0	0	0	0	0	0.00	0.00	0.00
			233246	93	109453	69	65882	8192834	35.13	0.28	124.36

TAB 2.3

Worst Performing Points of Interest (POI)

TAB 2.3.1

Worst Performing Points of Interest (POI)
With
>= 200,000 Sustained Customer Minutes

Xcel Energy - Wisconsin Year-End Tap Worst Performers Below Mainline Tap POI's Excluding All Storm Conditions With >= 200,000 Sustained Customer Minutes

POI	Feeder	Reg	Div	Custs	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
RHO369	SND021	Wisc North	61	339	7	2,373	363,847	1073.29	7.00	153.33
RLO192	WTL062	Wisc North	61	80	1	80	329,040	4113.00	1.00	4113.00
AHB109	WLR082	Wisc North	60	804	2	1,607	324,327	403.39	2.00	201.82
RLN179	WTL061	Wisc North	61	250	2	499	273,470	1093.88	2.00	548.04
RAI036	BYF021	Wisc North	62	221	3	662	224,128	1014.15	3.00	338.56
EAT454	OWN021	Wisc Central	64	201	1	201	206,628	1028.00	1.00	1028.00

TAB 2.3.2

Worst Performing Points of Interest (POI)
With
SAIFI >= 6

Xcel Energy - Wisconsin Year-End Tap Worst Performers Below Mainline Tap POI's Excluding All Storm Conditions With SAIFI >= 6.0

POI	Feeder	Reg	Div	Custs	# Sust Outs	# Sust Cust Ints	# Sust Cust Mins	SAIDI	SAIFI	CAIDI
RIN005	HUR022	Wisc North	63	26	7	184	21,058	809.92	7.08	114.45
RHO369	SND021	Wisc North	61	339	7	2,373	363,847	1073.29	7.00	153.33
RIF013	TWN022	Wisc North	63	45	7	315	39,780	884.00	7.00	126.29

TAB 2.4

Worst Performing Work Plans

TAB 2.4.1

Worst Performing Feeder Work Plans

POOR PERFORMING FEEDER WORK PLAN

Project Title: Tap level AHB 109 on WLR 082 feeder reliability improvement
Project Manager: Jean Waltz

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
07/27/02	16:53	4 hr 17 min	Tap	lightning
07/28/02	19:14	1 hr 18 min	Tap	lightning
08/16/02	22:56	1 hr 34 min	Tap	lightning

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Install remote indicating fault indicators. This is to help quickly identify fault location and speed up restoration time.	Waltz	2nd Q 2003			Not done.
2	Patrolled line. This is very long high exposure line to the elements. Arresters have been installed in certain places. Not feasible to install arresters every other pole along entire line.	Waltz				Complete. No further action at this time.
4						
5						

POOR PERFORMING FEEDER WORK PLAN

Project Title: WLR091 feeder reliability improvement
Project Manager: Jean Waltz

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
01/01/02	20:28	10/37	Feeder	Splice failure / cable on radial mainline feed into industrial park.

The entire feeder did not experience the full 10+ hour outage, only the industrial customers in the vicinity.

06/19/02	04:25	momentary	Feeder	Lightning

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Install remote indicating fault indicators. This is to help quickly identify fault location and speed up restoration time.	Waltz	2nd Q 2003			Not done.
2	Complete loop of mainline through Industrial Park.	Waltz	3rd Q 2003			Not started yet.
4						
5						

POOR PERFORMING FEEDER WORK PLAN

Project Title: COU078 Worst Performing Feeder Work Plan 2/7/03

Project Manager: Jean Waltz

Outage History (1/1/02 – 12/31/02) Sustained only

Feeder Name COU078

Date	Time	Duration	Level	Cause
12/14/02	00:48	11 min	FDR	Intentional outage to clear failed arrester. (1212 cust impacted) double counted
5/5/02	23:15	3 hr 15 min	FDR	Lightning (1212 cust impacted)
5/6/02	05:22	14 min	FDR	Intentional outage to clear circuit for trouble

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Install remote fault indicators to improve restoration time.	Waltz		06/15/03		2nd Q 2003
2	Replace failed arresters	LaCrosse troublemen	12/15/02	12/15/02		Complete
3						

POOR PERFORMING FEEDER WORK PLAN

Project Title: HAY082 Worst Performing Feeder Workplan 2/7/03

Project Manager: Jean Waltz

Outage History (1/1/02 – 12/31/02) Sustained outages only

Feeder Name HAY082

Date	Time	Duration	Level	Cause
1/3/02	03:32	2 hr 3 min	FDR	Connector failure (1702 cust impacted)
6/2/02	20:29	1 hr 21 min	OP	Tree contact, storm AGG181 (933 cust impacted) It appears DDS double counted the customers
6/2/02	23:42	3 hr 8 min	OP	Lightning, AGG 181 (217 cust impacted)
6/25/02	20:57	5 hr 28 min	OP	Tree contact AGG181 (879 cust impacted)

Workplan for HAY082

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Install Remote indicating fault indicators.	Waltz		2nd Q 2003		Not done.
2	Install approx 30 sets of 3 phase lightning arresters along the mainline.	Waltz / Randby	3/15/03	3/30/03		Complete.
3	Patrolled line for tree problems. Line has good clearance. Tree contacts have been unpreventable, outside trim zone.	Waltz	02/01/03	02/01/03		Complete.

POOR PERFORMING FEEDER WORK PLAN

Project Title: Tap RIN005 off of HUR022
Project Manager: Bob Molde

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
4/12/02	1127	48min	OH primary	Unknown
4/12/02	1349	2hr11min	OH primary	Tree related, fair
4/12/02	1610	1hr20min	OH primary	Tree related, fair
10/22/02	1219	1 hr41min	OH primary	Tree related, snow
10/22/02	1405	2 hr25min	OH primary	Tree related, snow
12/03/02	0900	2hr9min	OH primary	Intentional outage

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Spot tree trimming in 2003	Bill Mackie				
2						
4						
5						
6						
7						
8						
9						

POOR PERFORMING FEEDER WORK PLAN

Project Title: Hay River 082 (HAY082)
Project Manager: Bob Molde

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
1/03/02	0322	2hr3min	feeder	connector failure

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Install remote fault indicators	Bob Molde	5/15/03	6/1/03		
2						
4						
5						
6						
7						
8						
9						

POOR PERFORMING FEEDER WORK PLAN

Project Title: Presque Isle 021 (PSI021)
Project Manager: Bob Molde

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
5/1/02	1654	1hr45min	transmission	lightning arrester failure
5/10/02	0045	2hr10min	feeder	public damage
9/30/02	1458	momentary	transmission	wind &lightning

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Install set of remote read fault indicators	Bob Molde	5/15/03	6/01/03		
2	Protection changes on east circuit.	Bob Molde	5/15/03	6/15/03		
4						
5						
6						
7						
8						
9						

POOR PERFORMING FEEDER WORK PLAN

Project Title: T-Corners 081 (TCN081)
Project Manager: Bob Molde

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
7/30/02	1845	12hr26min	feeder	WPS 115kV line fell onto feeder during storm
8/11/02	2246	momentary	feeder	wind & lightning

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Install remote fault indicators by Milan.	Bob Molde	5/15/03	6/01/03		
2						
4						
5						
6						
7						
8						
9						

POOR PERFORMING FEEDER WORK PLAN

Project Title: T-Corners 091 (TCN091)
Project Manager: Bob Molde

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
6/11/02	0050	momentary	feeder	lightning
6/23/02	1755	momentary	feeder	wind & lightning
7/30/02	1850	11hr2min	feeder	wind & lightning (straight line winds)
8/17/02	0157	momentary	feeder	wind & lightning

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Install remote fault indicators.	Bob Molde	5/15/03	6/1/03		
2						
4						
5						
6						
7						
8						
9						

POOR PERFORMING FEEDER WORK PLAN

Project Title: T-Corners 092 (TCN092)
Project Manager: Bob Molde

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
5/27/02	1208	momentary	feeder	lightning
5/27/02	1222	momentary	feeder	lightning
6/02/02	2237	2hr35min	feeder	lightning arrester failure
6/11/02	0022	momentary	feeder	lightning
6/22/02	0413	momentary	feeder	wind & lightning
6/22/02	0642	momentary	feeder	wind & lightning
7/08/02	0855	momenary	feeder	wind & lightning
7/27/02	0553	momentary	feeder	unknown
7/30/02	1849	11hrs3min	feeder	wind & lightning (straight line winds)
10/14/02	1557	momentary	feeder	tree related (wind)

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Install lightning arresters	Chuck Goethel	3/1/03	3/30/03	Completed	
2	Install remote fault indicators	Bob Molde	5/15/03	6/1/03		
4						
5						
6						
7						
8						
9						

TAB 2.4.2

Worst Performing TAP (POI) Work Plans

POOR PERFORMING TAP (POI) WORK PLAN

Project Title: Tap EAT454 on OWEN 021
Project Manager: Bob Molde

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
7/30/02	1909	17hr8min	OH primary	wind & lightning Line damage due to high winds.

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	No action required.					
2						
4						
5						
6						
7						
8						
9						

POOR PERFORMING TAP (POI) WORK PLAN

Project Title: Tap RAI036 on Bayfield 021; Red Cliff circuit.
Project Manager: Bob Molde

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
5/19/02	0255	4hr32min	OH primary	public damage-broken pole
7/03/02	1841	5hr24min	OH primary	public damage-padmount equipment
7/04/02	1238	10hr52min	OH primary	primary cable failure

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	No action required.					
2	Repairs made.					
4	Tree trimming in 2003	Bill Macki	6/1/03	9/1/03		
5						
6						
7						
8						
9						

POOR PERFORMING TAP (POI) WORK PLAN

Project Title: Tap RHO369 on Sand Lake 021
Project Manager: Bob Molde

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
2/20/02	0801	2hr34min	OH primary	tree related – snow; b-phase
2/20/02	0932	2hr18min	OH primary	tree related – snow; a-phase
3/09/02	0502	4hr13min	OH primary	tree related – ice; a-phase
3/09/02	0830	45min	OH primary	tree related – ice; b-phase
6/30/02	1257	2hr33min	OH primary	conductor fatigue; b-phase
6/30/02	1304	2hr11min	OH primary	conductor fatigue; a-phase
6/30/02	1617	2hr43min	OH primary	line hardware failure; a-phase

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	No action required					
2						
4						
5						
6						
7						
8						
9						

The reliability on this tap has improved from previous years due to improved tree trimming and fusing of CSP transformers. The tree related outages were due to fallen trees/limbs outside the r-o-w. The conductor fatigue was due to conductor strands giving way at a splice.

POOR PERFORMING TAP (POI) WORK PLAN

Project Title: Tap RLN179 on Whitetail 061
Project Manager: Bob Molde

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
9/7/02	0734	9hr26min	OH transformer	wind & lightning; a-phase
9/7/02	0810	8hr50min	OH secondary	wind & lightning; b-phase

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Line rebuilid	Paul Randby		9/7/02	Rebuilt line	Completed
2						
4						
5						
6						
7						
8						
9						

Outage related to Ladysmith tornado that hit September 3, 2002.

POOR PERFORMING TAP (POI) WORK PLAN

Project Title: Tap RLO192 on Whitetail 062
Project Manager: Bob Molde

Outage History (1/1/02 – 12/31/02)

Feeder Name

Date	Time	Duration	Level	Cause
9/03/02	1413	68hr33min	OH primary	tornado
9/06/02	2053	20hr07min	OH primary	wind & lightning

Workplan for *Feeder Name*

#	Major Task	Responsible / Involved	Start Date	End Date	Milestones & Deliverables	Status
1	Line rebuild	Pau Randby		9/7/02	Rebuild line	Line rebuilt after tornado
2						
4						
5						
6						
7						
8						
9						

Outatges caused by tornado that hit downtown Ladysmith on September 3rd, 2002.

TAB 3

Alternative Criteria Ranking

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 in 2002. However, additional factors and criteria may be considered when determining actual work plans.

Xcel Energy Contact : John P. Ainscough

TAB 4

Accomplishment of Improvements Proposed in Prior Years

Accomplishment of Improvements Proposed in Prior Years

PSC 113.0604(2)(d)

All projects and work plans associated with the worst performers in 2001 have been completed. None of the worst performing feeders identified in 2001 appeared on the worst performing feeder list for 2002. Only one of the worst performing points of interest identified in 2001 (RAI036) appeared on the worst performing points of interest list for 2002.

Xcel Energy Contact : Robert E. Molde

TAB 5

New Reliability or Power Quality Programs

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 : Brian D. Amundson

TAB 6

Long Range Distribution Plans

Long Range Distribution Plans

PSC 113.0604(2)(f)

Attached is a list of the capacity related distribution projects currently planned for the years 2002, 2003 and 2004, a short description of each, and their estimated associated costs.

Xcel Energy Contact : Dean W. Estep

Xcel Energy Wisconsin Distribution
Capacity Related Projects 2003 - 2005

Project description	2003	2004	2005	Total
Jeffers Sub feeder tie with Truax	$ 180,000			$ 180,000
Osseo Area/Sumner Substation distribution portion	$ 116,000			$ 116,000
Coulee Substation Feeder Bay COU072	$ 366,000			$ 366,000
Coulee Substation Distribution Feeder COU072	$ 25,000			$ 25,000
Grassland Substation	$ 750,000			$ 750,000
Grassland Substation new Distribution Feeder	$ 115,000			$ 115,000
Spencer Substation, add 2nd 69/12.47 kV Bank	$ 750,000			$ 750,000
Spencer Substation, New Distribution Feeder	$ 230,000			$ 230,000
Conrath Substation Removal			$ 40,000	$ 40,000
Folsom Substation Removal			$ 32,000	$ 32,000
Hawkins Substation Removal			$ 32,000	$ 32,000
Sheldon Substatin Removal			$ 45,000	$ 45,000
Somerset - New Substation		$ 40,000	$ 960,000	$ 1,000,000
Somerset - Distribution Feeder Work			$ 250,000	$ 250,000
Viroqua Substation Feeder Bay VIR062	$ 10,000	$ 280,000		$ 290,000
Viroqua Distribution Feeder VIR062		$ 250,000		$ 250,000
Rice Lake Upgrade Transformers to 46 MVA			$ 2,000,000	$ 2,000,000
Griffen St Feeder Capacity Upgrade			$ 150,000	$ 150,000
Bayfield Substation Capacity Upgrade	$ 10,000			$ 10,000
Neillsville Substation add 2nd 69/12.5 kV Bank & Fdr Bay		$ 750,000		$ 750,000
Neillsville Substation Remove 4 kV Bank & Feeders		$ 32,000		$ 32,000
Stanley Area Substation Capacity Upgrade	$ 10,000	$ 1,200,000		$ 1,210,000
Stanley Area Substation - New Distribution Feeders		$ 300,000		$ 300,000
Willow River Substation Capacity Upgrade		$ 10,000	$ 1,380,000	$ 1,390,000
Red Cedar Substation new feeder bay		$ 300,000		$ 300,000
Red Cedar Substation New Distribution Feeder		$ 200,000		$ 200,000
Menomonie - Red Cedar Feeder Tie			$ 200,000	$ 200,000
	$ 2,562,000	$ 3,362,000	$ 5,089,000	$ 11,013,000

TAB 7

Route Miles of Reconstructed Lines

Route Miles of Reconstructed Lines

PSC 113.0604(3)(a)

Route miles of reconstructed lines for year 2002.

Miles	Phase	Overhead vs. Underground
3.2 miles	1 – phase	Overhead
.5 miles	3 – phase	Overhead
1.7 miles	1 – phase	Underground
2.0 miles	3 – phase	Underground

Xcel Energy Contact : Robert E. Molde

TAB 8

Route Miles by Voltage

Route Miles by Voltage

PSC 113.0604(3)(b)

Route miles by voltage for year 2002.

	Voltage	Miles	Percent
	4.16 kV	464	5%
	12.47 kV and 13.8 kV	6,699	73%
	23.9 kV	2,045	22%
Total		9,208	100%

The number of route miles is not specifically kept by voltage. The route miles are estimates based on the approximate 9,200 route miles in service on 12/31/2002 and as filed with FERC.

Xcel Energy Contact : Robert E. Molde

TAB 9

Average Monthly Speed of Answer

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 2002 was 45 seconds. The ASA is weighted based on the call volume for the different call types. This calculation uses the average speed of answer as defined in Wis. Admin. § PSC 113.0503(1) (b).

The year 2002 monthly average speed of answer for billing problems, outages and emergencies were:

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Billing	12	13	16	22	27	59	92	12	43	36	25	24
Outages	131	35	72	347	37	144	222	127	83	21	14	14
Emergencies	15	6	12	6	2	7	7	2	4	3	3	5

Xcel Energy Contact : Jason S. Perreria

TAB 10

Average Days to Energize Service

Average Days to Energize Service

PSC 113.0604(3)(d)

The average days to energize an electric service in 2002 was calculated by comparing the mutually agreed to day the customer 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	1	7	7.0
2	February	6	53	8.8
3	March	19	72	3.8
4	April	25	310	12.4
5	May	183	2,683	14.7
6	June	137	1,735	12.7
7	July	180	2,955	16.4
8	August	180	3,130	17.4
9	September	146	2,936	20.1
10	October	194	3,189	16.4
11	November	176	2,296	13.0
12	December	93	1,701	18.3
Year 2002 Total		1,340[1]	21,067	15.7

In 2002, significant changes were made to our service connection process including major software changes. This necessitated working with multiple project management products as well as reviewing paper documentation necessary to complete this filing requirement. Due to the significant processes changes in this area during 2002, not all of the required data was available for each service connection to be included in the calculation above.

Since the 1,340 connections included in the calculation above represent a significant percentage (66%) of the total new connections of 2,044, the Company is confident that the average days to energize service of 15.7 is representative of all electric services installed.

Recognizing the process changes and data issues encountered in 2002, additional checkpoints and control monitoring has been enacted. Attached is a process map flowchart depicting the new customer connection and reporting processess. Additional documentation of the software and

[1] A review of the project management software identified 2,044 new electric service connections in 2002, however only 1,340 were included in the average days to energize service calculation due to data issues. The most common data issue identified was the mutually agreed to service date was not consistently captured in the software enabling it to be included in the calculation.

training the Company is undertaking to resolve any future process or data issues is available if requested.

Xcel Energy Contact : Mary Jane Vaughn

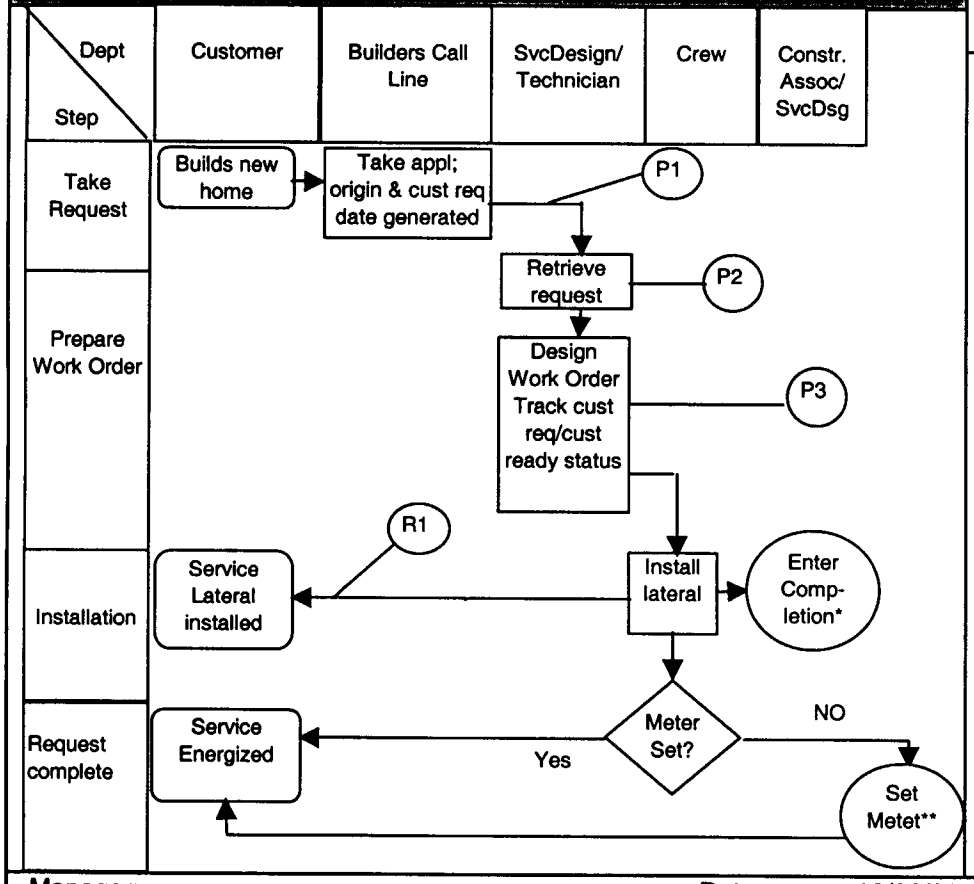
Daily Management Process Control System

Process Description:
Install residential service laterals

Objective of the Process: Install lateral within 15 days of customer ready

Quality Indicators:
R1 = 85% of new services installed within 15 days

Process Flow Chart



Indicator and Measurement Methods	Units or Targets	INDICATOR CHECKING: What to check	When to check	Responsibility	Standards or Procedures
P1	90% in less than 48 hours	When rec'd vs. entered	Daily	BCL Team Asst	Cust ready is defined as site is within 4-6" of grade and service path is clear.
P2	90% in less than 2 days	Orig. date to Actioned date	Weekly	Design Mgr	*Refer to Work Order Closing document for additional processing criteria
P3	90% in less than 2 days	WO status set to "ready"	Weekly	Design Mgr	
R1	>85% on time	# of svc installed in less than 15 days from the later of the cust req or cust ready date	Monthly	Design/Const Mgr	**Refer to Meter Set Process for processing criteria

Manager: Date: 12/26/02 Revision #: Date:

TAB 11

Written and Telephone Complaints

Written and Telephone Complaints

PSC 113.0604(3)(e)

A table of the written and telephone complaints by month for the year 2002 is attached. In total, 111 customer complaints were referred to Xcel Energy's the Customer Advocate team by the PSCW.

Xcel Energy Contact : Denise D. Trujillo

Total Commission Complaints for Wisconsin

Sum of Count		Month Rec												
WPUC	Inquiry Type	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Grand Total
Billing	Budget Billing	1						1						2
	Damage Claim-Delivery								1					1
	Damage Claim-Retail										1			1
	Deposit - Commercial					1		1	1			1		4
	Deposit - Residential						1							1
	Disputed Billing					4	2	1		1		1	3	12
	Disputed Transfer/Benefit of Service	2	1						1	1			1	6
	Estimate/No Meter Reading - E, G, E&G								2					2
	Final Bill							1	1	2	1			5
	High Bill-Electric	1	1	2										4
	High Bill-Gas	1												1
	Marketing Program(s)					1								1
	Meter Reading Error - E, G, E&G	1												1
	Rate Application Dispute					1					1			2
	S. O. Notice-Argmts. Requested/Refused	2	4	2	2	4	1	2	5	5				27
	Shut Off Delinquent				1	2	1	1	1	2	5			13
	Tenant Change/Contracts	1												1
Billing Total		9	6	4	3	13	5	7	12	11	8	2	4	84
Other	Dead Meter		1											1
	Electric Service Extension - Construction				1									1
	Field Collections										1			1
	Field Service-Gas				1						1			2
	Gas Leak-Service Related										1			1
	Gas Service Extension - Design							2						2
	Meter Set								1			1	1	3
	Meter Set Order Entry									1				1
	Misinformation by CS Personnel										1			1
	Payment Posting				2	1	3				2			8
	Tree Trimming Quality		1											1
	Turn-On/Shut-Off Electric					1								1
Other Total			2		4	2	3	2	1	1	6	1	1	23
Outage	Electric Outage - Frequency Issue		1					1						2
Outage Total			1					1						2
Power Quality	Location/Operation-Electric Distribution											1		1
	Voltage Problem											1		1
Power Quality Total												2		2
Grand Total		9	9	4	7	15	8	10	13	12	14	5	5	111

TAB 12

Annual Tree Trimming Budget and Expenses

Annual Tree Trimming Budget and Expenses

PSC 113.0604(3)(f)

The Wisconsin total annual expenditure budget for tree trimming in 2002 was $3,908,621, while actual expenditures for the same period totaled $3,237,483. These dollars include distribution and transmission line clearance maintenance as well as departmental overheads. The distribution line clearance budget was $2,976,450 and actual spent was $2,726,450. An internal "root cause" analysis of outages due to trees revealed that 95+% of the "tree outages" were non-preventable.

Xcel Energy Contact : Randy L. Davis

TAB 13

Projected and Actual Distribution Miles Trimmed

Projected and Actual Distribution Miles Trimmed

PSC 113.0604(3)(g)

The distribution line miles projected to be trimmed during 2002 were 2,112 miles. The actual distribution line miles trimmed in 2002 totaled 2,490 miles.

Xcel Energy Contact : Randy L. Davis