05-GF-113
(66690)

Wisconsin Public Service Corporation
(a subsidiary of WPS Resources Corporation)
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001

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May 14, 2002

RECEIVED
MAY 1 2002
Electric Division

Mr. James D. Loock
Chief Engineer – Electric Division
610 North Whitney Way
P. O. Box 7854
Madison, WI 53707-7854

Dear Mr. Loock:

Enclosed is Wisconsin Public Service Corporation's filing to meet the requirements for PSC-113 sections PSC-113.0603 (Recording Standards) and PSC-113.0604 (Annual Report). The files that are referred to in the enclosed document can be found on the diskette that has been provided.

Please call me at (920) 433-1780 if you have any questions or concerns.

Sincerely,

Mindy Mangold

Mindy Mangold
Distribution Planning Engineer

Enclosures

PSC 113 .0603 (2) **INDIVIDUAL CIRCUIT RELIABILITY PERFORMANCE**

Each utility shall, at the end of each calendar year, calculate the SAIFI, SAIDI, and CAIDI indices for each circuit in each operating area. Each circuit in each operating area shall then be listed in order separately according to its SAIFI index, its SAIDI index, and also its CAIDI index, beginning with the highest values for each index.

INCLUDES INTERRUPTIONS > 5 MINUTES, TRANSMISSION AND MAJOR STORMS

SUBSTATION	FDR	2001 SAIFI	SUBSTATION	FDR	2001 SAIDI	SUBSTATION	FDR	2001 CAIDI
EASTOM	241	6.97	AVIATION	241	1760	PEARL AVE.	123	1220
SILVER CLIFF	241	6.33	OSHKOSH	241	1586	OSHKOSH	241	1177
ST. GERMAIN	241	6.24	PEARL AVE.	123	1238	OAK STREET	241	956
CRANBERRY SUB	241	5	RYAN STREET	123	1060	HARRISON	242	801
ASHLAND AVE.	242	4.72	BOWEN STREET	241	908	AVIATION	241	474
ST. GERMAIN(ER)	242	4.34	SECOND STREET(MEN)	121	875	MEARS CORNERS	241	455
SECOND STREET(MEN)	121	4.33	HARRISON	242	821	ELLINWOOD	241	353
BRUSBAY	122	4.26	TWELFTH AVE.	242	792	HOOVER	241	333
RYAN STREET	123	4.02	MEARS CORNERS	241	781	BOWEN STREET	241	292
POUND	241	3.78	ELLINWOOD	241	730	GOLDEN SANDS	241	270
AVIATION	241	3.72	HARRISON	241	694	ST. NAZIANZ	241	267
HIGHWAY 8	241	3.69	BRUSBAY	122	680	RYAN STREET	123	264
CLEAR LAKE	243	3.48	ASHLAND AVE.	242	669	TWELFTH AVE.	242	260
SUNSET POINT	242	3.43	ST. GERMAIN	241	599	SHERMAN STREET	241	260
CLEAR LAKE	241	3.42	GOLDEN SANDS	241	589	DUNN ROAD	121	241
EASTOM	242	3.14	CRANBERRY SUB	241	534	UNIVERSITY	123	232
SHOTO	241	3.12	SUNSET POINT	242	486	HARRISON	241	227
VENUS	241	3.12	SILVER CLIFF	241	469	VELP AVE	241	214
BOWEN STREET	241	3.11	TWELFTH AVE.	121	431	TWELFTH AVE.	121	208
ST. GERMAIN(MIN)	242	3.11	ST. GERMAIN(ER)	242	396	SECOND STREETMAR)	121	208
HARRISON	241	3.06	LENA	241	396	SECOND STREET(MEN)	121	202
TWELFTH AVE.	242	3.04	BRUSBAY	121	383	GOODMAN	241	182
CRANBERRY SUB	244	2.77	ST. GERMAIN(MIN)	242	352	HIGHWAY V	241	178
CLEAR LAKE	242	2.71	GOODMAN	241	350	ROSIERE	241	174
WELLS STREET	121	2.63	CLEAR LAKE	243	348	GRAND RAPIDS(MAR)	241	170
POUND	241	2.61	CLEAR LAKE	241	339	LENA	241	168
VENUS	242	2.6	HIGHWAY 8	241	334	HILLTOP	242	167
BRUSBAY	121	2.56	EASTOM	241	323	ROSIERE	242	166
HODAG	241	2.55	JOHNSON FALLS D	241	304	CALDRON F. STEPU(WSK)	121	165
LENA	241	2.35	POUND	241	295	KELLNERSVILLE	121	164

WAUPACA	242	2.27	AURORA STREET	242	287	GOLDEN SANDS	242	162
DYCKESVILLE	241	2.25	VENUS	241	278	AURORA STREET	242	161
WHITING AVE.	241	2.22	WAUPACA	242	254	MASON STREET	243	160
GOLDEN SANDS	241	2.18	ELLINWOOD	242	253	BRUSBAY	122	160
ST. GERMAIN(RHI)	242	2.14	VENUS	242	247	MOUNTAIN	241	157
ELLINWOOD	241	2.07	ROSIERE	241	238	HIGHWAY V	242	153
TWELFTH AVE.	121	2.07	CRANBERRY SUB	244	233	MASON STREET	241	153
SOBIESKI	241	2.06	ROSIERE	242	220	JOHNSON FALLS D	241	152
ELLINWOOD	242	2.04	EASTOM	242	218	BRUSBAY	121	150
SUNSET POINT	241	2.02	WAUPACA	241	217	WHITING AVE.	242	148
ALGOMA(STB)	121	2	OCONTO	242	210	VELP AVE	242	147
HIGHWAY 8	243	2	SHERMAN STREET	241	208	GRAVESVILLE	242	147
JOHNSON FALLS D	241	2	EGG HARBOR	241	197	ASHLAND AVE.	242	142
EGG HARBOR	241	1.94	GOLDEN SANDS	242	195	ROSIERE	242	142
GOODMAN	241	1.92	CLEAR LAKE	242	192	SUNSET POINT	242	142
WAUPACA	241	1.88	ALGOMA(STB)	121	188	DAVES FALLS	242	139
AURORA STREET	242	1.79	POUND	241	188	SUAMICO	241	138
SISTER BAY	242	1.78	SHOTO	241	181	ASHLAND AVE.	241	137
ROSIERE	241	1.76	ROSIERE	242	181	ROSIERE	241	135
MEARS CORNERS	241	1.72	DUNN ROAD	121	180	GLENVIEW	242	133
GLENVIEW	242	1.67	ROSIERE	241	174	MYSTERY HILLS	241	132
EASTOM	243	1.62	GLENVIEW	242	168	GRAND RAPIDS(MEN)	241	132
HIGHWAY 8	242	1.61	WHITING AVE.	241	166	OCONTO	242	131
OCONTO	242	1.6	GRAND RAPIDS(MAR)	241	164	BLUESTONE	121	128
ROOSEVELT ROAD	121	1.59	GRAND RAPIDS(MEN)	241	161	MANRAP	121	127
THREE LAKES(ER)	121	1.55	SISTER BAY	242	160	WESMARK	242	126
ROSIERE	242	1.54	DYCKESVILLE	241	158	ELLINWOOD	242	124
WESMARK	241	1.49	SOBIESKI	241	157	CASSEL	242	120
OSHKOSH	241	1.35	ROOSEVELT ROAD	121	156	MAPLEWOOD	241	119
SISTER BAY	241	1.32	GLENVIEW	242	155	ROCKLAND	241	117
EAST KROK	241	1.3	ST. NAZIANZ	241	153	HIGHWAY V	243	116
PLOVER	241	1.3	WESMARK	241	149	WAUPACA	241	115
PEARL AVE.	241	1.29	OAK STREET	241	147	HENRY STREET	122	114
GRAND RAPIDS(MEN)	241	1.22	PEARL AVE.	241	132	SANDSTONE DIST.	241	114
GOLDEN SANDS	242	1.2	HODAG	241	128	ST. GERMAIN(MIN)	242	113
WEST MARINETTE	241	1.19	SANDSTONE DIST.	241	128	DAVES FALLS	241	113
WESMARK	241	1.18	WELLS STREET	121	121	MISHICOT	122	112
GLENVIEW	242	1.16	WESMARK	242	120	ALGOMA(KEW)	121	112
SOUTH BROADWAY	242	1.15	MOUNTAIN	241	116	WAUPACA	242	112
CASSEL	241	1.12	HIGHWAY 8	243	109	WELLS STREET	122	112
MORRISON AVE.	242	1.12	THREE LAKES(ER)	121	107	NORTHPOINT	242	111
THREE LAKES(RHI)	121	1.12	PLOVER	241	104	SHERWOOD	242	111
SANDSTONE DIST.	241	1.12	SISTER BAY	241	89	CALDRON F. STEPU(WAB)	121	110

CASSEL	241	1.1	SHOTO	242	87	CRANBERRY SUB	241	107
ROSIERE	242	1.09	CASSEL	241	87	TOWER DRIVE	241	106
THIRTIETH AVE.	121	1.09	HIGHWAY 8	242	85	SHERWOOD	241	104
EGG HARBOR	242	1.08	WESMARK	241	81	PEARL AVE.	241	103
KELLNERSVILLE	122	1.07	CASSEL	241	81	MASON STREET	242	102
SHOTO	242	1.07	PINE	242	78	PREBLE	242	102
BAY DE NOC	121	1.07	SOUTH BROADWAY	242	76	GLENVIEW	242	101
LUXEMBURG	122	1.03	WESMARK	241	73	EGG HARBOR	241	101
BOWEN STREET	121	1.02	CASSEL	242	73	WESMARK	241	100
PEARL AVE.	123	1.02	EAST KROK	241	70	ROSIERE	241	100
HARRISON	242	1.02	DAVES FALLS	241	69	CLEAR LAKE	243	100
WELLS STREET	123	1.01	KELLNERSVILLE	122	68	OCONTO	241	100
ROSIERE	241	1	DAVES FALLS	242	66	HOWARD	241	99
WESMARK	241	1	KELLNERSVILLE	121	64	KRONEN	121	99
NORSAU	121	1	MISHICOT	122	61	CLEAR LAKE	241	99
WESMARK	242	0.96	GRAVESVILLE	242	60	ROOSEVELT ROAD	121	98
GRAND RAPIDS(MAR)	241	0.96	SECOND STREET(MAR)	121	60	PINE	242	97
SHERMAN STREET	241	0.8	MORRISON AVE.	241	58	ST. GERMAIN	241	96
PINE	242	0.8	EGG HARBOR	242	57	PREBLE	241	95
DUNN ROAD	121	0.75	BOWEN STREET	121	55	VENUS	242	95
MORRISON AVE.	241	0.74	KRONEN	242	55	ALGOMA(STB)	121	94
MOUNTAIN	241	0.74	TOWER DRIVE	241	54	NORSAU	122	94
HILLTOP	241	0.71	WEST MARINETTE	241	51	ST. GERMAIN(ER)	242	91
DYCKESVILLE	242	0.67	DYCKESVILLE	242	50	SISTER BAY	242	90
KELLY	241	0.62	VELP AVE	242	50	KRONEN	242	90
CASSEL	242	0.61	HILLTOP	241	50	HIGHWAY 8	241	90
KRONEN	242	0.61	SHERWOOD	242	50	KELLY	243	89
DAVES FALLS	241	0.61	EASTOM	243	48	VENUS	241	89
ST. NAZIANZ	241	0.57	BAY DE NOC	121	48	HOWARD	242	88
MISHICOT	122	0.54	MASON STREET	241	44	MYSTERY HILLS	242	87
TOWER DRIVE	241	0.51	LUXEMBURG	122	44	STROWBRIDGE ST.	121	85
DAVES FALLS	242	0.48	SHERWOOD	241	43	TOWN LINE	121	84
TOWN LINE	121	0.47	KELLY	241	42	CRANBERRY SUB	244	84
EAST KROK	242	0.46	THIRTIETH AVE.	121	42	GLENVIEW	241	83
SHERWOOD	242	0.45	HENRY STREET	122	41	GRAVESVILLE	241	82
BEARDSLEY STREET	122	0.42	TOWN LINE	121	39	SHOTO	242	81
GRAVESVILLE	242	0.41	BLUESTONE	121	38	PLOVER	241	81
SHERWOOD	241	0.41	WELLS STREET	123	36	CASSEL	241	78
KELLNERSVILLE	121	0.39	EAST KROK	242	34	POUND	241	78
GRAVESVILLE	241	0.39	GRAVESVILLE	241	32	HENRY STREET	241	77
AURORA STREET	241	0.38	SUNSET POINT	241	32	LIBERTY STREET	242	77
HENRY STREET	122	0.36	NORSAU	121	30	MORRISON AVE.	241	77
VELP AVE	242	0.34	MORRISON AVE.	242	29	LOST DAUPHIN	241	76

BLUESTONE	121	0.3	OCONTO	241	28	SOBIESKI	241	76
MASON STREET	241	0.29	WHITING AVE.	242	26	KELLY	242	76
SECOND STREET(MAR)	121	0.29	ST. GERMAIN(RHI)	242	25	HOOVER	242	76
OCONTO	241	0.28	AURORA STREET	241	24	EASTMAN AVE.	241	75
LOST DAUPHIN	241	0.27	UNIVERSITY	123	22	WHITING AVE.	241	75
HOOVER	242	0.25	HOOVER	241	22	DYCKESVILLE	242	74
MISHICOT	121	0.24	ASHLAND AVE.	241	21	CASSEL	241	74
JAMES STREET	241	0.23	LOST DAUPHIN	241	21	SILVER CLIFF	241	74
WAUSAU HYDRO	241	0.23	VELP AVE	241	19	EASTMAN AVE.	242	73
SHERMAN STREET	242	0.21	HOOVER	242	19	BEARDSLEY STREET	121	73
STRATFORD	241	0.21	CALDRON F. STEPU(WSK)	121	19	EAST KROK	242	73
ALGOMA	122	0.2	JAMES STREET	241	16	WESMARK	241	73
LIBERTY STREET	241	0.19	MYSTERY HILLS	241	16	STRATFORD	241	73
WHITING AVE.	242	0.18	MISHICOT	121	16	MENOMINEE	121	73
ASHLAND AVE.	241	0.15	BEARDSLEY STREET	122	16	POUND	241	72
OAK STREET	241	0.15	STRATFORD	241	16	LIBERTY STREET	241	71
STROWBRIDGE ST.	121	0.15	THREE LAKES(RHI)	121	16	HILLTOP	241	71
HENRY STREET	241	0.14	SUAMICO	241	15	PINE	241	71
NORTHPOINT	242	0.14	NORTHPOINT	242	15	CLEAR LAKE	242	71
MYSTERY HILLS	241	0.12	LIBERTY STREET	241	14	DYCKESVILLE	241	70
SUAMICO	241	0.11	WAUSAU HYDRO	241	14	NORTHPOINT	241	70
CALDRON F. STEPU(WSK)	121	0.11	ALGOMA	122	13	JAMES STREET	241	69
RED MAPLE	241	0.1	STROWBRIDGE ST.	121	12	WESMARK	241	69
KELLY	242	0.1	CALDRON F. STEPU(WAB)	121	12	MISHICOT	121	69
CALDRON F. STEPU(WAB)	121	0.1	HENRY STREET	241	11	THREE LAKES(ER)	121	69
PREBLE	242	0.09	MASON STREET	243	11	EASTOM	242	69
UNIVERSITY	123	0.09	MANRAP	121	11	SECOND STREET	122	69
VELP AVE	241	0.09	SHERMAN STREET	242	11	SISTER BAY	241	68
MANRAP	121	0.09	HILLTOP	242	10	KELLY	241	68
HOWARD	241	0.08	HIGHWAY V	241	9	SOUTH BROADWAY	242	66
PINE	241	0.08	HIGHWAY V	242	9	KELLNERSVILLE	122	64
MASON STREET	243	0.07	PREBLE	242	9	ALGOMA	122	63
PREBLE	241	0.07	HOWARD	241	8	WAUSAU HYDRO	241	62
RED MAPLE	242	0.07	KELLY	242	8	RED MAPLE	242	61
HOOVER	241	0.07	MASON STREET	242	6	TOWN LINE	122	61
HIGHWAY V	242	0.06	PREBLE	241	6	AURORA STREET	241	61
GLENVIEW	241	0.06	PINE	241	6	WINTON STREET	121	59
HILLTOP	242	0.06	MYSTERY HILLS	242	5	SHOTO	241	58
EASTMAN AVE.	241	0.05	GLENVIEW	241	5	BOWEN STREET	121	55
HIGHWAY V	241	0.05	EASTMAN AVE.	241	4	HIGHWAY 8	243	55
MASON STREET	242	0.05	HIGHWAY V	243	4	EAST KROK	241	54
MYSTERY HILLS	242	0.05	RED MAPLE	241	4	MERRILL	122	54
WINTON STREET	121	0.05	RED MAPLE	242	4	EGG HARBOR	242	53

SECOND STREET	122	0.05	ALGOMA(KEW)	121	4	HIGHWAY 8	242	53
NORSAU	122	0.04	NORSAU	122	4	SHERMAN STREET	242	52
TOWN LINE	122	0.04	SECOND STREET	122	4	WINTON STREET	122	52
PLOVER	242	0.04	KELLY	243	3	HODAG	241	50
HIGHWAY V	243	0.03	WINTON STREET	121	3	RED MAPLE	241	46
ALGOMA(KEW)	121	0.03	HOWARD	242	2	EASTOM	241	46
KELLY	243	0.03	TOWN LINE	122	2	WELLS STREET	121	46
NORTHPOINT	241	0.03	NORTHPOINT	241	2	EAST KROK	242	45
EAST KROK	242	0.02	EAST KROK	242	1	BAY DE NOC	121	45
EASTMAN AVE.	242	0.02	EASTMAN AVE.	242	1	LUXEMBURG	122	43
HOWARD	242	0.02	LIBERTY STREET	242	1	WEST MARINETTE	241	43
LIBERTY STREET	242	0.01	KRONEN	121	1	BEARDSLEY STREET	122	39
KRONEN	121	0.01	PLOVER	242	1	THIRTIETH AVE.	121	39
WINTON STREET	122	0.01	WELLS STREET	122	1	WELLS STREET	123	36
MERRILL	122	0.01	MAPLEWOOD	241	0	NORSAU	121	30
WELLS STREET	122	0.01	ROCKLAND	241	0	PLOVER	242	30
MAPLEWOOD	241	0	BEARDSLEY STREET	121	0	EASTOM	243	30
ROCKLAND	241	0	WINTON STREET	122	0	MORRISON AVE.	242	26
BEARDSLEY STREET	121	0	MERRILL	122	0	SUNSET POINT	241	16
MENOMINEE	121	0	MENOMINEE	121	0	THREE LAKES(RHI)	121	14
						ST. GERMAIN(RHI)	242	12

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2001 ELECTRIC DISTRIBUTION CUSTOMER INTERRUPTION ANNUAL REPORT

TABLE IIIB1 - SUBSTATION BREAKER OPERATIONS STATISTICS
GREEN BAY DIVISION SUBSTATION FEEDERS

Momentary Substation Outages.

			OPERATIONS OR FAULTS				
DISTRICT	SUBSTATION	FDR	ABC	A	B	C	GTR
GREEN BAY	ASHLAND AVE.	241	-	-	-	-	-
		242	3	0	2	2	1
	BLUESTONE	121	3	1	1	2	3
	DYCKESVILLE	241	-	2	2	2	-
		242	-	1	1	1	-
	EAST KROK	242	-	-	-	-	-
	EASTMAN AVE.	132	1	-	-	-	-
		241	-	-	-	-	-
		242	-	-	-	-	-
	HENRY STREET	122	-	-	-	-	-
		241	3	-	-	-	-
	HIGHWAY V	241	-	-	-	-	-
		242	-	-	-	-	-
		243	2	-	-	-	-
	HOWARD	241	-	-	-	-	-
		242	4	-	-	-	-
	JAMES STREET	241	4	2	1	2	4
	LIBERTY STREET	241	1	-	-	-	-
		242	-	-	-	-	-
		243	1	-	-	-	-
	LOST DAUPHIN	241	1	0	0	1	0
	LUXEMBURG	241	-	-	-	-	-
	MAPLEWOOD	241	-	-	-	-	-
	MASON STREET	241	2	1	2	2	2
		242	2	0	2	0	2
		243	2	1	1	0	2
	MYSTERY HILLS	241	3	0	3	1	3
		242	-	-	-	-	-
	OAK STREET	241	-	-	-	-	-
	ONTARIO	241	2	-	-	-	-
	PREBLE	241	0	1	0	1	-
		242	1	1	1	1	0
	RED MAPLE	241	-	-	-	-	-
		242	-	-	-	-	-
	ROCKLAND	241	1	-	-	-	-
	SOBIESKI	241	-	-	-	-	-
	SOUTH BROADWAY	242	3	3	0	3	3
	SUAMICO	241	-	-	-	-	-
	TOWER DRIVE	241	3	0	2	3	0
	UNIVERSITY	123	1	0	1	1	1
	VELP AVE	241	3	3	0	1	2
		242	2	2	0	1	1
	WESMARK	241	2	2	1	2	1
		242	-	-	-	-	-

WISCONSIN PUBLIC SERVICE CORPORATION

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TABLE IIIB2 - SUBSTATION BREAKER OPERATIONS STATISTICS
LAKESHORE DIVISION SUBSTATION FEEDERS

			OPERATIONS OR FAULTS				
DISTRICT	SUBSTATION	FDR	ABC	A	B	C	GTR
TWO RIVERS	GLENVIEW	242	3	0	3	0	-
	KELLNERSVILLE	121	-	-	-	-	-
		122	-	-	-	-	-
	MANRAP	121	-	-	-	-	-
	MISHICOT	121	-	-	-	-	-
		122	-	-	-	-	-
	SHOTO	241	-	-	-	-	-
		242	-	-	-	-	-
	ST. NAZIANZ	241	-	-	-	-	-
		242	-	-	-	-	-
	WESMARK	241	2	2	1	2	1
CHILTON	GLENVIEW	241	-	-	-	-	-
		242	3	0	3	0	-
	GRAVESVILLE	241	-	-	-	-	-
		242	-	-	-	-	-
	RYAN STREET	123	-	-	-	-	-
STURGEON BAY	ALGOMA	121	-	-	-	-	-
	BRUSBAY	121	1	0	0	0	-
		122	-	-	-	-	-
	DUNN ROAD	121	1	0	1	1	0
	EGG HARBOR	121	-	-	-	-	-
		241	3	1	0	2	3
		242	-	-	-	-	-
	ROSIERE	52	-	-	-	-	-
		241	-	-	-	-	-
		242	-	-	-	-	-
	SISTER BAY	241	-	-	-	-	-
		242	-	-	-	-	-
KEWAUNEE	ALGOMA	41	-	-	-	-	-
		121	-	-	-	-	-
		122	-	-	-	-	-
	BEARDSLEY STREET	41	-	-	-	-	-
		121	-	-	-	-	-
		122	-	-	-	-	-
	EAST KROK	241	-	-	-	-	-
		242	-	-	-	-	-
	LUXEMBURG	122	-	-	-	-	-
		241	-	-	-	-	-
		242	-	-	-	-	-
	ROSIERE	241	-	-	-	-	-
		242	-	-	-	-	-
	WESMARK	241	2	2	1	2	1

2001 ELECTRIC DISTRIBUTION CUSTOMER INTERRUPTION ANNUAL REPORT

TABLE IIIB3 - SUBSTATION BREAKER OPERATIONS STATISTICS
M&M DIVISION SUBSTATION FEEDERS

			OPERATIONS OR FAULTS				
DISTRICT	SUBSTATION	FDR	ABC	A	B	C	GTR
MENOMINEE	BAY DE NOC	121	4	-	-	-	-
	GRAND RAPIDS	241	4	2	2	2	-
	MENOMINEE	121	-	-	-	-	-
	SECOND STREET	121	-	-	-	-	-
		122	-	-	-	-	-
	THIRTIETH AVE.	121	-	-	-	-	-
		122	1	-	-	-	-
	WELLS STREET	122	-	-	-	-	-
MARINETTE	GRAND RAPIDS	241	2	1	1	0	-
	LENA	241	-	-	-	-	-
	OCONTO	241	-	-	-	-	-
		242	-	-	-	-	-
	OGDEN ST	121	-	-	-	-	-
		122	-	-	-	-	-
		123	-	-	-	-	-
		124	-	-	-	-	-
	POUND	241	7	5	10	4	1
	ROOSEVELT ROAD	121	-	-	-	-	-
	SECOND STREET	121	-	-	-	-	-
	SHERWOOD	241	1	1	0	0	0
		242	-	-	-	-	-
	WELLS STREET	121	-	-	-	-	-
		123	-	-	-	-	-
	WEST MARINETTE	241	-	-	-	-	-
WABENO	CALDRON F. STEPU	121	-	-	-	-	-
	GOODMAN	241	-	-	-	-	-
	MOUNTAIN	241	-	-	-	-	-
	SILVER CLIFF	241	1	1	1	1	1
WAUSAUKEE	CALDRON F. STEPU	121	-	-	-	-	-
	DAVES FALLS	241	-	-	-	-	-
		242	-	-	-	-	-
	JOHNSON FALLS D	241	-	-	-	-	-
	POUND	241	7	5	10	4	1
	SANDSTONE DIST.	241	1	0	0	0	0

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TABLE IIIB4 - SUBSTATION BREAKER OPERATIONS STATISTICS
OSHKOSH DIVISION SUBSTATION FEEDERS

			OPERATIONS OR FAULTS				
DISTRICT	SUBSTATION	FDR	ABC	A	B	C	GTR
OSHKOSH	AVIATION	241	8	-	-	-	-
	BOWEN STREET	121	1	-	-	-	-
		241	7	7	2	7	-
	ELLINWOOD	241	-	-	-	-	-
		242	1	-	-	-	-
	MEARS CORNERS	241	1	1	1	1	0
	OSHKOSH	241	-	-	-	-	-
	PEARL AVE.	121	-	-	-	-	-
		122	-	-	-	-	-
		123	1	-	-	-	-
		241	3	-	-	-	-
	SUNSET POINT	241	8	7	4	3	7
		242	1	-	-	-	-
	TWELFTH AVE.	121	-	-	-	-	-
		242	3	-	-	-	-

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TABLE IIIB5 - SUBSTATION BREAKER OPERATIONS STATISTICS
RHINELANDER DIVISION SUBSTATION FEEDERS

			OPERATIONS OR FAULTS				
DISTRICT	SUBSTATION	FDR	ABC	A	B	C	GTR
EAGLE RIVER	CRANBERRY SUB	241	-	-	-	-	-
		244	-	-	-	-	-
	ST. GERMAIN	241	-	-	-	-	-
		242	2	1	1	0	0
	THREE LAKES	121	-	-	-	-	-
TOMAHAWK	EASTOM	241	2	1	0	1	0
		242	-	-	-	-	-
		243	-	-	-	-	-
MINOCQUA	CLEAR LAKE	241	4	1	3	2	2
		242	2	1	1	1	2
		243	3	3	2	2	2
	ST. GERMAIN	241	4	4	2	3	3
		242	5	1	1	0	0
RHINELANDER	HIGHWAY 8	241	2	3	2	2	0
		242	1	1	0	0	-
		243	-	-	-	-	-
	HODAG	241	4	3	1	3	3
	ST. GERMAIN	241	-	-	-	-	-
		242	2	2	2	1	1
	THREE LAKES	121	-	-	-	-	-
	VENUS	241	6	3	5	4	5
		242	2	1	0	2	1
ANTIGO	AURORA STREET	241	-	-	-	-	-
		242	-	-	-	-	-

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TABLE IIIB6 - SUBSTATION BREAKER OPERATIONS STATISTICS
WAUSAU DIVISION SUBSTATION FEEDERS

			OPERATIONS OR FAULTS				
DISTRICT	SUBSTATION	FDR	ABC	A	B	C	GTR
WAUSAU	CASSEL	241	4	3	2	2	3
		242	1	-	-	-	-
	HILLTOP	241	1	1	1	1	2
		242	-	-	-	-	-
	KELLY	241	3	-	-	-	-
		242	3	-	-	-	-
		243	3	-	-	-	-
	KRONEN	121	-	-	-	-	-
		242	2	1	0	0	0
	MAINE	241	-	2	4	4	-
	MORRISON AVE.	241	3	3	2	1	3
		242	1	-	-	-	-
	NORSAU	121	-	-	-	-	-
		122	-	-	-	-	-
	SHERMAN STREET	241	-	-	-	-	-
		242	1	0	1	0	-
	STRATFORD	241	-	-	-	-	-
	STROWBRIDGE ST.	121	1	-	-	-	-
	TOWN LINE	121	2	-	-	-	-
		122	1	-	-	-	-
	WAUSAU HYDRO	241	-	-	-	-	-
	WINTON STREET	121	1	-	-	-	-
		122	1	-	-	-	-
MERRILL	CASSEL	241	4	3	2	2	3
	MERRILL	122	-	-	-	-	-
	PINE	241	-	-	-	-	-
		242	-	-	-	-	-
STEVENS POINT	GOLDEN SANDS	241	1	0	1	0	1
		242	2	2	2	0	2
	HOOVER	241	1	-	-	-	-
		242	-	-	-	-	-
	NORTHPOINT	241	-	-	-	-	-
		242	-	-	-	-	-
	PLOVER	241	7	4	5	4	1
		242	2	2	2	2	0
	WHITING AVE.	241	-	-	-	-	-
		242	3	2	2	1	2
WAUPACA	CASSEL	241	-	-	-	-	-
	HARRISON	241	5	3	5	4	0
		242	-	-	-	-	-
	WAUPACA	241	1	1	0	0	1
		242	2	2	0	0	2

PSC 113.0604 (2)(a)

An overall assessment of the reliability performance including the aggregate SAIFI, SAIDI, and CAIDI indices by system and each operating area, as applicable.

2001 ELECTRIC DISTRIBUTION CUSTOMER INTERRUPTIONS
TOTAL DISTRIBUTION SYSTEM RELIABILITY INDICES
WITH MAJOR STORMS AND TRANSMISSION OUTAGES
WITHOUT MOMENTARIES (5 MINUTES OR LESS DURATION)

DISTRICT	SAIFI	CAIDI	SAIDI
GREEN BAY	0.29	96	28
TWO RIVERS	1.53	93	142
CHILTON	0.73	111	81
STURGEON BAY	1.75	114	198
KEWAUNEE	0.83	110	91
OSHKOSH	2.17	312	676
WAUSAU	0.45	96	43
MERRILL	0.43	92	40
STEVENS PT	0.63	118	75
WAUPACA	2.78	222	617
EAGLE RIVER	2.79	84	235
TOMAHAWK	4.36	46	200
MINOCQUA	3.96	94	371
RHINELANDER	2.48	74	184
ANTIGO	0.98	138	135
MENOMINEE	0.6	85	51
MARINETTE	1.07	101	108
WABENO	2.51	101	255
WAUSAUKEE	1.12	123	138
TOTAL COMPANY	1.27	134	171

PSC 113.0604 (2)(a)
An overall assessment of the reliability performance including the aggregate SAIFI, SAIDI, and CAIDI indices by system and each operating area, as applicable.

2001 ELECTRIC DISTRIBUTION CUSTOMER INTERRUPTION
TOTAL DISTRIBUTION SYSTEM RELIABILITY INDEXES
INCLUDING MAJOR STORMS AND TRANSMISSION CAUSED
EXCLUDING MTY'S LE 5 MIN

DISTRICT	SUBSTATION	FEEDER	FREQUENCY PER CUSTOMER SERVED (SAIFI)	DURATION MINS PER CUSTOMER SERVED (SAIDI)	DURATION MINS PER CUSTOMER OUTAGED (CAIDI)
GREEN BAY	ASHLAND AVE.	241	0.15	21	137
		242	4.72	669	142
	BLUESTONE	121	0.3	38	128
	DYCKESVILLE	241	2.25	158	70
		242	0.67	50	74
	EAST KROK	242	0.02	1	45
	EASTMAN AVE.	241	0.05	4	75
		242	0.02	1	73
	HENRY STREET	122	0.36	41	114
		241	0.14	11	77
	HIGHWAY V	241	0.05	9	178
		242	0.06	9	153
		243	0.03	4	116
	HOWARD	241	0.08	8	99
		242	0.02	2	88
	JAMES STREET	241	0.23	16	69
	LIBERTY STREET	241	0.19	14	71
		242	0.01	1	77
	LOST DAUPHIN	241	0.27	21	76
	MAPLEWOOD	241	0	0	119
	MASON STREET	241	0.29	44	153
		242	0.05	6	102
		243	0.07	11	160
	MYSTERY HILLS	241	0.12	16	132
		242	0.05	5	87
	OAK STREET	241	0.15	147	956
	PREBLE	241	0.07	6	95
		242	0.09	9	102
	RED MAPLE	241	0.1	4	46
		242	0.07	4	61
	ROCKLAND	241	0	0	117
	SOBIESKI	241	2.06	157	76
	SOUTH BROADWAY	242	1.15	76	66
	SUAMICO	241	0.11	15	138
	TOWER DRIVE	241	0.51	54	106
	UNIVERSITY	123	0.09	22	232
	VELP AVE	241	0.09	19	214
		242	0.34	50	147
	WESMARK	241	1.18	81	69

		242	0.96	120	126
TWO RIVERS	GLENVIEW	242	1.16	155	133
	KELLNERSVILLE	121	0.39	64	164
		122	1.07	68	64
	MANRAP	121	0.09	11	127
	MISHICOT	121	0.24	16	69
		122	0.54	61	112
	SHOTO	241	3.12	181	58
		242	1.07	87	81
	ST. NAZIANZ	241	0.57	153	267
	WESMARK	241	1.49	149	100
CHILTON	GLENVIEW	241	0.06	5	83
		242	1.67	168	101
	GRAVESVILLE	241	0.39	32	82
		242	0.41	60	147
	RYAN STREET	123	4.02	1060	264
STURGEON BAY	ALGOMA	121	2	188	94
	BRUSBAY	121	2.56	383	150
		122	4.26	680	160
	DUNN ROAD	121	0.75	180	241
	EGG HARBOR	241	1.94	197	101
		242	1.08	57	53
	ROSIERE	241	6.41	641	100
		242	1.09	181	166
	SISTER BAY	241	1.32	89	68
		242	1.78	160	90
KEWAUNEE	ALGOMA	121	0.03	4	112
		122	0.2	13	63
	BEARDSLEY STREET	121	0	0	73
		122	0.42	16	39
	EAST KROK	241	1.3	70	54
		242	0.46	34	73
	LUXEMBURG	122	1.03	44	43
	ROSIERE	241	1	174	174
		242	1.54	220	142
	WESMARK	241	1	73	73
OSHKOSH	AVIATION	241	3.72	1760	474
	BOWEN STREET	121	1.02	55	55
		241	3.11	908	292
	ELLINWOOD	241	2.07	730	353
		242	2.04	253	124
	MEARS CORNERS	241	1.72	781	455
	OSHKOSH	241	1.35	1586	1177
	PEARL AVE.	123	1.02	1238	1220
		241	1.29	132	103
	SUNSET POINT	241	2.02	32	16
		242	3.43	486	142
	TWELFTH AVE.	121	2.07	431	208
		242	3.04	792	260
WAUSAU	CASSEL	241	1.12	87	78
		242	0.61	73	120
	HILLTOP	241	0.71	50	71
		242	0.06	10	167
	KELLY	241	0.62	42	68
		242	0.1	8	76
		243	0.03	3	89

	KRONEN	121	0.01	1	99
		242	0.61	55	90
	MORRISON AVE.	241	0.74	58	77
		242	1.12	29	26
	NORSAU	121	1	30	30
		122	0.04	4	94
	SHERMAN STREET	241	0.8	208	260
		242	0.21	11	52
	STRATFORD	241	0.21	16	73
	STROWBRIDGE ST.	121	0.15	12	85
	TOWN LINE	121	0.47	39	84
		122	0.04	2	61
	WAUSAU HYDRO	241	0.23	14	62
	WINTON STREET	121	0.05	3	59
		122	0.01	0	52
MERRILL	CASSEL	241	1.1	81	74
	MERRILL	122	0.01	0	54
	PINE	241	0.08	6	71
		242	0.8	78	97
STEVENS POINT	GOLDEN SANDS	241	2.18	589	270
		242	1.2	195	162
	HOOVER	241	0.07	22	333
		242	0.25	19	76
	NORTHPOINT	241	0.03	2	70
		242	0.14	15	111
	PLOVER	241	1.3	104	81
		242	0.04	1	30
	WHITING AVE.	241	2.22	166	75
		242	0.18	26	148
WAUPACA	HARRISON	241	3.06	694	227
		242	1.02	821	801
	WAUPACA	241	1.88	217	115
		242	2.27	254	112
EAGLE RIVER	CRANBERRY SUB	241	5	534	107
		244	2.77	233	84
	ST. GERMAIN	242	4.34	396	91
	THREE LAKES	121	1.55	107	69
TOMAHAWK	EASTOM	241	6.97	323	46
		242	3.14	218	69
		243	1.62	48	30
MINOCQUA	CLEAR LAKE	241	3.42	339	99
		242	2.71	192	71
		243	3.48	348	100
	ST. GERMAIN	241	6.24	599	96
		242	3.11	352	113
RHINELANDER	HIGHWAY 8	241	3.69	334	90
		242	1.61	85	53
		243	2	109	55
	HODAG	241	2.55	128	50
	ST. GERMAIN	242	2.14	25	12
	THREE LAKES	121	1.12	16	14
	VENUS	241	3.12	278	89
		242	2.6	247	95
ANTIGO	AURORA STREET	241	0.38	24	61
		242	1.79	287	161
MENOMINEE	BAY DE NOC	121	1.07	48	45

	GRAND RAPIDS	241	1.22	161	132
	MENOMINEE	121	0	0	73
	SECOND STREET	121	4.33	875	202
		122	0.05	4	69
	THIRTIETH AVE.	121	1.09	42	39
	WELLS STREET	122	0.01	1	112
MARINETTE	GRAND RAPIDS	241	0.96	164	170
	LENA	241	2.35	396	168
	OCONTO	241	0.28	28	100
		242	1.6	210	131
	POUND	241	2.61	188	72
	ROOSEVELT ROAD	121	1.59	156	98
	SECOND STREET	121	0.29	60	208
	SHERWOOD	241	0.41	43	104
		242	0.45	50	111
	WELLS STREET	121	2.63	121	46
		123	1.01	36	36
	WEST MARINETTE	241	1.19	51	43
WABENO	CALDRON F. STEPU	121	0.1	12	110
	GOODMAN	241	1.92	350	182
	MOUNTAIN	241	0.74	116	157
	SILVER CLIFF	241	6.33	469	74
WAUSAUKEE	CALDRON F. STEPU	121	0.11	19	165
	DAVES FALLS	241	0.61	69	113
		242	0.48	66	139
	JOHNSON FALLS D	241	2	304	152
	POUND	241	3.78	295	78
	SANDSTONE DIST.	241	1.12	128	114

PSC 113.0604 (2)(b)

A list of the worst-performing circuits based on SAIFI, SAIDI, and CAIDI indices for the calendar year.

SAIFI, SAIDI, and CAIDI were calculated for each of the WPS distribution feeders. Due to the difficulty in ranking the feeders, a composite value was calculated in order to normalize SAIFI, SAIDI, and CAIDI. The following formula was used to develop a composite value based on 20% SAIFI and 80% SAIDI.

COMPOSITE = [(SAIFI/SAIFI MAX) * .2 +(SAIDI/SAIDI MAX) * .8 + (CAIDI/CAIDI MAX) *0] where MAX = the maximum value of SAIFI, SAIDI, and CAIDI for all distribution circuits.

INCLUDES INTERRUPTIONS > 5 MINUTES, TRANSMISSION AND MAJOR STORMS

SUBSTATION	FEEDER	(SAIFI)	(SAIDI)	(CAIDI)	COMPOSITE
AVIATION	241	3.72	1760	474	0.907
OSHKOSH	241	1.35	1586	1177	0.760
RYAN STREET	123	4.02	1060	264	0.597
PEARL AVE.	123	1.02	1238	1220	0.592
BOWEN STREET	241	3.11	908	292	0.502
ST. GERMAIN(MIN)	241	6.24	599	96	0.451
TWELFTH AVE.	242	3.04	792	260	0.447
BRUSBAY	122	4.26	680	160	0.431
MEARS CORNERS	241	1.72	781	455	0.404
HARRISON	241	3.06	694	227	0.403
HARRISON	242	1.02	821	801	0.402
SILVER CLIFF	241	6.33	469	74	0.395
ELLINWOOD	241	2.07	730	353	0.391
EASTOM	241	6.97	323	46	0.347
GOLDEN SANDS	241	2.18	589	270	0.330
SUNSET POINT	242	3.43	486	142	0.319
ST. GERMAIN(ER)	242	4.34	396	91	0.305
CLEAR LAKE	243	3.48	348	100	0.258
HIGHWAY 8	241	3.69	334	90	0.258
TWELFTH AVE.	121	2.07	431	208	0.255
CLEAR LAKE	241	3.42	339	99	0.252
ST. GERMAIN(MIN)	242	3.11	352	113	0.249
BRUSBAY	121	2.56	383	150	0.248
LENA	241	2.35	396	168	0.247
POUND	241	3.78	295	78	0.243
VENUS	241	3.12	278	89	0.216
GOODMAN	241	1.92	350	182	0.214
JOHNSON FALLS D	241	2	304	152	0.196
EASTOM	242	3.14	218	69	0.189
VENUS	242	2.6	247	95	0.187
CRANBERRY SUB	244	2.77	233	84	0.185

AURORA STREET	242	1.79	287	161	0.182
WAUPACA	242	2.27	254	112	0.181
ELLINWOOD	242	2.04	253	124	0.174
SHOTO	241	3.12	181	58	0.172
CLEAR LAKE	242	2.71	192	71	0.165
POUND	241	2.61	188	72	0.160
ROSIERE(STB)	241	1.76	238	135	0.159
WAUPACA	241	1.88	217	115	0.153
EGG HARBOR	241	1.94	197	101	0.145
ROSIERE(KEW)	242	1.54	220	142	0.144
ALGOMA(STB)	121	2	188	94	0.143
OCONTO	242	1.6	210	131	0.141
WHITING AVE.	241	2.22	166	75	0.139
DYCKESVILLE	241	2.25	158	70	0.136
HODAG	241	2.55	128	50	0.131
SOBIESKI	241	2.06	157	76	0.130
WELLS STREET	121	2.63	121	46	0.130
GLENVIEW(CHI)	242	1.67	168	101	0.124
SISTER BAY	242	1.78	160	90	0.124
GOLDEN SANDS	242	1.2	195	162	0.123
GRAND RAPIDS(MAR)	241	1.18	190	161	0.120
SHERMAN STREET	241	0.8	208	260	0.118
ROOSEVELT ROAD	121	1.59	156	98	0.117
ROSIERE(STB)	242	1.09	181	166	0.114
WESMARK	241	1.49	149	100	0.110
GRAND RAPIDS(MEN)	241	1.22	161	132	0.108
ROSIERE(KEW)	241	1	174	174	0.108
HIGHWAY 8	243	2	109	55	0.107
GLENVIEW(TWR)	242	1.16	155	133	0.104
DUNN ROAD	121	0.75	180	241	0.103
PEARL AVE.	241	1.29	132	103	0.097
THREE LAKES(ER)	121	1.55	107	69	0.093
SANDSTONE DIST.	241	1.12	128	114	0.090
ST. NAZIANZ	241	0.57	153	267	0.086
HIGHWAY 8	242	1.61	85	53	0.085
PLOVER	241	1.3	104	81	0.085
WESMARK	242	0.96	120	126	0.082
SISTER BAY	241	1.32	89	68	0.078
MOUNTAIN	241	0.74	116	157	0.074
ST. GERMAIN(RHI)	242	2.14	25	12	0.073
SUNSET POINT	241	2.02	32	16	0.073
CASSEL	241	1.12	87	78	0.072
OAK STREET	241	0.15	147	956	0.071
WESMARK	241	1.18	81	69	0.071
SHOTO	242	1.07	87	81	0.070
EAST KROK	241	1.3	70	54	0.069
CASSEL	241	1.1	81	74	0.068
EASTOM	243	1.62	48	30	0.068
SOUTH BROADWAY	242	1.15	76	66	0.068
WESMARK	241	1	73	73	0.062
KELLNERSVILLE	122	1.07	68	64	0.062
PINE	242	0.8	78	97	0.058

WEST MARINETTE	241	1.19	51	43	0.057
EGG HARBOR	242	1.08	57	53	0.057
BOWEN STREET	121	1.02	55	55	0.054
BAY DE NOC	121	1.07	48	45	0.053
CASSEL	242	0.61	73	120	0.051
THIRTIETH AVE.	121	1.09	42	39	0.050
LUXEMBURG	122	1.03	44	43	0.050
DAVES FALLS	241	0.61	69	113	0.049
MORRISON AVE.	241	0.74	58	77	0.048
WELLS STREET	123	1.01	36	36	0.045
MORRISON AVE.	242	1.12	29	26	0.045
DAVES FALLS	242	0.48	66	139	0.044
MISHICOT	122	0.54	61	112	0.043
HILLTOP	241	0.71	50	71	0.043
KRONEN	242	0.61	55	90	0.043
NORSAU	121	1	30	30	0.042
DYCKESVILLE	242	0.67	50	74	0.042
KELLNERSVILLE	121	0.39	64	164	0.040
THREE LAKES(RHI)	121	1.12	16	14	0.039
TOWER DRIVE	241	0.51	54	106	0.039
GRAVESVILLE	242	0.41	60	147	0.039
KELLY	241	0.62	42	68	0.037
SHERWOOD	242	0.45	50	111	0.036
SECOND STREET(MAR)	121	0.29	60	208	0.036
VELP AVE	242	0.34	50	147	0.032
CRANBERRY SUB	241	1	6	6	0.031
SHERWOOD	241	0.41	43	104	0.031
TOWN LINE	121	0.47	39	84	0.031
HENRY STREET	122	0.36	41	114	0.029
EAST KROK	242	0.46	34	73	0.029
MASON STREET	241	0.29	44	153	0.028
BLUESTONE	121	0.3	38	128	0.026
GRAVESVILLE	241	0.39	32	82	0.026
AURORA STREET	241	0.38	24	61	0.022
OCONTO	241	0.28	28	100	0.021
BEARDSLEY STREET	122	0.42	16	39	0.019
LOST DAUPHIN	241	0.27	21	76	0.017
WHITING AVE.	242	0.18	26	148	0.017
HOOVER	242	0.25	19	76	0.016
MISHICOT	121	0.24	16	69	0.014
JAMES STREET	241	0.23	16	69	0.014
ASHLAND AVE.	241	0.15	21	137	0.014
STRATFORD	241	0.21	16	74	0.013
WAUSAU HYDRO	241	0.23	14	62	0.013
UNIVERSITY	123	0.09	22	232	0.013
HOOVER	241	0.07	22	333	0.012
LIBERTY STREET	241	0.19	14	71	0.012
CALDRON F. STEP(WSK)	121	0.11	19	165	0.012
ALGOMA(KEW)	122	0.2	13	63	0.012
VELP AVE	241	0.09	19	214	0.011
SHERMAN STREET	242	0.21	11	52	0.011
NORTHPOINT	242	0.14	15	111	0.011

MYSTERY HILLS	241	0.12	16	132	0.011
SUAMICO	241	0.11	15	138	0.010
STROWBRIDGE ST.	121	0.15	12	85	0.010
HENRY STREET	241	0.14	11	77	0.009
CALDRON F. STEP(WAB)	121	0.1	12	110	0.008
MANRAP	121	0.09	11	127	0.008
MASON STREET	243	0.07	11	160	0.007
PREBLE	242	0.09	9	102	0.007
KELLY	242	0.1	8	76	0.007
HILLTOP	242	0.06	10	167	0.006
HOWARD	241	0.08	8	99	0.006
HIGHWAY V	242	0.06	9	153	0.006
HIGHWAY V	241	0.05	9	178	0.006
PINE	241	0.08	6	71	0.005
PREBLE	241	0.07	6	95	0.005
RED MAPLE	241	0.1	4	46	0.005
MASON STREET	242	0.05	6	102	0.004
GLENVIEW(CHI)	241	0.06	5	83	0.004
RED MAPLE	242	0.07	4	61	0.004
MYSTERY HILLS	242	0.05	5	87	0.004
EASTMAN AVE.	241	0.05	4	75	0.003
SECOND STREET(MEN)	122	0.05	4	69	0.003
NORSAU	122	0.04	4	94	0.003
WINTON STREET	121	0.05	3	59	0.003
HIGHWAY V	243	0.03	4	116	0.003
ALGOMA(KEW)	121	0.03	4	112	0.003
KELLY	243	0.03	3	89	0.002
TOWN LINE	122	0.04	2	61	0.002
NORTHPOINT	241	0.03	2	70	0.002
PLOVER	242	0.04	1	30	0.002
HOWARD	242	0.02	2	88	0.001
EAST KROK	242	0.02	1	45	0.001
EASTMAN AVE.	242	0.02	1	73	0.001
LIBERTY STREET	242	0.01	1	77	0.001
KRONEN	121	0.01	1	99	0.001
WINTON STREET	122	0.01	1	76	0.001
WELLS STREET	122	0.01	1	112	0.001
MERRILL	122	0.01	0	54	0.000
MAPLEWOOD	241	0	0	119	0.000
ROCKLAND	241	0	0	117	0.000
BEARDSLEY STREET	121	0	0	73	0.000
MENOMINEE	121	0	0	73	0.000

PSC 113.0604 (2)(b)

A list of the causes and associated customer minutes for the worst performing feeders for the calendar year.

2001 CUSTOMER INTERRUPTION STATISTICS
(EXCLUDING MTY'S OF 5 MINUTE OR LESS)
(INCLUDING MAJOR STORMS AND TRANSMISSION CAUSED)

SUBSTATION	FDR	CAUSE	NO. OF OUTAGES	CUSTOMER MINUTES
AVIATION	241	DIST EQUIP FAILURE	12	25800
AVIATION	241	INADEQUATE CONSTRUCT	1	20
AVIATION	241	EQUIPMENT OVERLOAD	2	1698
AVIATION	241	TREE W/ADEQ TRIM	7	9673
AVIATION	241	TREE W/INADEQ TRIM	3	1335
AVIATION	241	WEATHER	48	5798460
AVIATION	241	BUILDING FIRE	2	304
AVIATION	241	NON EMPLOY HUMAN ERROR	1	73
AVIATION	241	VEHICLE	1	82
AVIATION	241	ANIMALS OR BIRDS	13	394360
AVIATION	241	UNKNOWN	9	5405
BOWEN STREET	241	DIST EQUIP FAILURE	9	265912
BOWEN STREET	241	EQUIPMENT OVERLOAD	1	528
BOWEN STREET	241	TREE W/INADEQ TRIM	1	45
BOWEN STREET	241	WEATHER	7	2835378
BOWEN STREET	241	BUILDING FIRE	1	22
BOWEN STREET	241	UNDERGROUND DIG-IN	1	220
BOWEN STREET	241	VEHICLE	1	15147
BOWEN STREET	241	ANIMALS OR BIRDS	5	241285
BOWEN STREET	241	UNKNOWN	3	6879
BRUSBAY	122	TRANS EQUIP FAILURE	1	172260
BRUSBAY	122	DIST EQUIP FAILURE	3	53053
BRUSBAY	122	TREE W/ADEQ TRIM	2	43679
BRUSBAY	122	WEATHER	2	310
BRUSBAY	122	EMPLOYEE HUMAN ERROR	1	90
BRUSBAY	122	ANIMALS OR BIRDS	1	38
BRUSBAY	122	UNKNOWN	1	60
HARRISON	241	TRANS EQUIP FAILURE	1	94464
HARRISON	241	DIST EQUIP FAILURE	10	75487
HARRISON	241	TREE W/ADEQ TRIM	15	1983587
HARRISON	241	TREE W/INADEQ TRIM	15	1376287
HARRISON	241	WEATHER	16	92296
HARRISON	241	EMPLOYEE HUMAN ERROR	1	2900
HARRISON	241	NON EMPLOY HUMAN ERROR	3	559
HARRISON	241	UNDERGROUND DIG-IN	1	106
HARRISON	241	VEHICLE	2	149
HARRISON	241	ANIMALS OR BIRDS	15	1264
HARRISON	241	UNKNOWN	6	14180

MEARS CORNERS	241	DIST EQUIP FAILURE	7	1356
MEARS CORNERS	241	EQUIPMENT OVERLOAD	1	194
MEARS CORNERS	241	TREE W/ADEQ TRIM	9	277866
MEARS CORNERS	241	TREE W/INADEQ TRIM	1	21615
MEARS CORNERS	241	WEATHER	16	2974193
MEARS CORNERS	241	BUILDING FIRE	1	115
MEARS CORNERS	241	NON EMPLOY HUMAN ERROR	1	164
MEARS CORNERS	241	UNDERGROUND DIG-IN	1	3060
MEARS CORNERS	241	VEHICLE	5	159559
MEARS CORNERS	241	ANIMALS OR BIRDS	10	683
MEARS CORNERS	241	UNKNOWN	6	333
OSHKOSH	241	DIST EQUIP FAILURE	3	62098
OSHKOSH	241	TREE W/ADEQ TRIM	2	1580
OSHKOSH	241	WEATHER	13	4132998
OSHKOSH	241	BUILDING FIRE	2	139
OSHKOSH	241	NON EMPLOY HUMAN ERROR	1	624
OSHKOSH	241	VEHICLE	2	8981
OSHKOSH	241	ANIMALS OR BIRDS	1	424
PEARL AVE.	123	WEATHER	1	734134
PEARL AVE.	123	VEHICLE	1	270
RYAN STREET	123	DIST EQUIP FAILURE	2	18304
RYAN STREET	123	WEATHER	1	64
RYAN STREET	123	NON EMPLOY HUMAN ERROR	1	1320
RYAN STREET	123	UNKNOWN	1	26972
ST. GERMAIN	241	DIST EQUIP FAILURE	20	141541
ST. GERMAIN	241	EQUIPMENT OVERLOAD	2	23397
ST. GERMAIN	241	TREE W/ADEQ TRIM	102	1752230
ST. GERMAIN	241	TREE W/INADEQ TRIM	9	9429
ST. GERMAIN	241	WEATHER	29	758428
ST. GERMAIN	241	BUILDING FIRE	5	402
ST. GERMAIN	241	NON EMPLOY HUMAN ERROR	5	11526
ST. GERMAIN	241	UNDERGROUND DIG-IN	3	623
ST. GERMAIN	241	ANIMALS OR BIRDS	24	3329
ST. GERMAIN	241	UNKNOWN	20	138303
TWELFTH AVE.	242	DIST EQUIP FAILURE	4	2913
TWELFTH AVE.	242	EQUIPMENT OVERLOAD	1	2097
TWELFTH AVE.	242	TREE W/ADEQ TRIM	1	14805
TWELFTH AVE.	242	WEATHER	3	1654222
TWELFTH AVE.	242	BUILDING FIRE	1	273
TWELFTH AVE.	242	VEHICLE	1	90
TWELFTH AVE.	242	ANIMALS OR BIRDS	3	736

PSC 113.0604 (2) (b)

A list of the worst performing circuits based on SAIFI, SAIDI, and CAIDI indices for the calendar year.

WPS analyzed approximately 200 distribution circuits. SAIFI, SAIDI, and CAIDI indices are listed for the 10 worst feeders for 2001. The indices were calculated using interruptions greater than 5 minutes and included transmission-related outages and major storms.

1. Aviation 241: SAIFI = 3.72 SAIDI = 1760 CAIDI = 474
2. Oshkosh 241: SAIFI = 1.35 SAIDI = 1586 CAIDI = 1177
3. Ryan St. 123: SAIFI = 4.02 SAIDI = 1060 CAIDI = 264
4. Pearl Ave. 123: SAIFI = 1.02 SAIDI = 1238 CAIDI = 1220
5. Bowen St. 241: SAIFI = 3.11 SAIDI = 908 CAIDI = 292
6. St. Germain 241: SAIFI = 6.24 SAIDI = 599 CAIDI = 96
7. Twelfth Ave. 242: SAIFI = 3.04 SAIDI = 792 CAIDI = 260
8. Brusbay 122: SAIFI = 4.26 SAIDI = 680 CAIDI = 160
9. Mears Corners 241: SAIFI = 1.72 SAIDI = 781 CAIDI = 455
10. Harrison 241: SAIFI = 3.06 SAIDI = 694 CAIDI = 227

This section of the report will describe the actions that the utility has taken or will take to improve the conditions responsible for each listed circuit's performance.

1. Six of the ten worst performing feeders for 2001 were located in the Oshkosh District. A major storm struck WPSC's service territory in the Oshkosh District on June 11, 2001 with thunderstorms and straight-line winds ranging between 75 and 80 mph. Officials from the City of Oshkosh reported that approximately 25% of the trees in the city were lost during the storm. The storm resulted in uprooted trees blocking roads and crashing onto homes, vehicles, and power lines. WPSC's Oshkosh District has 8 distribution substations serving 17 electrical feeders. Shortly after the storm, 15 feeder breakers had locked out cutting electricity to approximately 37,700 WPSC customers, which represents nearly 99% of the total number of customers served within the district. Greater than 5,000 customers were without power in excess of 16 hours. At the height of the efforts, approximately 248 line electricians compromising 94 line crews worked to restore service using 168 vehicles. During the restoration, crews replaced approximately 50 broken or damaged poles, 52 damaged transformers, and new primary, secondary, and service wire. The cost to WPSC for the restoration effort was well in excess of $1 million, not including the loss in resources for completing our work. The Oshkosh city government officials declared the city an official disaster area and Wisconsin Governor Scott McCallum declared Winnebago County a disaster area. It should be noted that if major storms were ignored in the indices' calculations, none of the Oshkosh circuits would be included in the top 10 worst performing feeders. The percentage of the total customer minutes attributed to the June 11 storm were: Aviation 241: 93%, Bowen St. 241: 84%, Mears Corners 241: 92%, Oshkosh 241: 98%, Pearl Ave. 123: 99%, and Twelfth Ave. 242: 82%.

2. Ryan Street 123: This feeder experienced three large extended outages in 2001. One was due to a contractor's crane contacting transmission line F-6, one was due to a substation transformer arrester failure resulting from a distribution capacitor bank controller that malfunctioned, and one was due to a main line fault during a windstorm. A back-up source will be constructed and completed by late 2002, which will greatly improve reliability.
3. St. Germain 241: This is an extremely long radial feeder, greater than 30 miles in length. Approximately 62% of the customer outage minutes in 2001 were the result of trees, while 27% resulted from weather and only 5% from distribution equipment failure. In 2002, an extensive reliability study on this feeder will be conducted which will include assessing all elements that have failed over the last five years. The line will be patrolled to determine potential tree problem areas that need attention. In addition, the over current protection plan will be closely scrutinized for possible improvements.
4. Brusbay 122: This feeder had two extended outages in 2001. A substation insulator failure resulted in 64% of the customer outage minutes, while distribution equipment failure contributed 20%. A conversion from 12.47 kV to 24.94 kV is currently in progress and is scheduled for completion in 2003. With this conversion, the substation and distribution line will be rebuilt to 24.94 kV standards.
5. Harrison 241: The June 11, 2001 windstorm that hit the Oshkosh region also struck the Waupaca area. Eighty seven percent of the customer outage minutes can be attributed to the June 11 storm. In this case, the district reported the outage causes in terms if trees with adequate trimming and trees without adequate trimming instead of weather. Ninety five to ninety seven percent of the customer outage minutes attributed to trees resulted from the June 11 storm. WPS will be constructing a new 138-24.94 kV substation west of Waupaca, off of County RQ approximately 0.5 miles north of Hwy. 54. It is expected that this feeder will be in service prior to the summer of 2003. This new feeder will off load Harrison 241 by approximately 25% and is being constructed to provide additional capacity in this growing area.

PSC 113.0604(2)(d)

A report on the accomplishment of the improvements proposed in prior reports for which completion has not been previously reported.

1. Silver Cliff 241: Summit Lake 241 is a new feeder to the west that has off loaded Silver Cliff by approximately 3 MVA and will provide back up capacity for loss of the Wabeno feeders. The Silver Cliff load that was transferred to Summit Lake included greater than 18 miles of straight line, so windshield time will be reduced and reliability will improve significantly.
2. Goodman 241: The new feeder that was originally planned for October 2004 is now contingent on ATC approval for a new transmission line that will feed a new 138/24.94 kV substation in the Laona area. If approved, the new transmission into the area will greatly strengthen and improve reliability in the Wabeno area.
3. Mountain 241: The new Mountain feeder that was originally planned for November 2002 is now scheduled for November 2003. This will help re-sectionalize the feeder and will favorably impact reliability.
4. Eastom 241: The over current protection plan was reviewed and revised to improve reliability. The new OCP plan will be implemented in 2002.
5. Caldron Falls 121: Conversion of this 12.47 kV feeder to 24.94 kV is progressing. A portion of this feeder is being re-conductored to three-phase and will become part of the main line, which will be served from the new Thunder Substation in late 2004.
6. Golden Sands 241: The 138 kV substation lightning arresters were replaced in 2001.
7. Johnson Falls 241: The distribution out of Johnson Falls will be served from the new Thunder Substation beginning in May 2002.
8. Golden Sands 242: The 138 kV substation lightning arresters were replaced in 2001.
9. Clear Lake 242: The over current protection plan was reviewed and revisions were made to improve reliability. The new OCP plan will be implemented in 2002.
10. St. Nazianz 241: This feeder had three large extended outages in 2001. Two of these outages were the result of transmission failures. One outage was due to a car pole accident. The over current protection plan worked properly to isolate this car pole accident. The only planned work to improve the reliability of this feeder is the implementation of a new type of overhead transformer fuse to reduce the number of nuisance fuse outages. This will be a slow process and will include all feeders in the Two Rivers district.

PSC 113.0604 (2)(e)

Listed are programs that are on going at WPS in the area of Power Quality and Reliability:

- Temporary diesel generator installations at designated substations for peak load to improve reliability to the northern loop.
- APS: Advanced power services, which includes IR scans, power quality diagnostics, and energy monitoring services provided to customer systems.
- EOP D-7.52: Electric operating procedure for responding to power quality problems that customers have.

PSC 113.0604 (3)(a)

The route miles of electric reconstruction are:

- Single phase: 50 Miles
- Three phase: 64 Miles

PSC 113.0604 (3)(b)

See attached "Wisconsin Public Service Corporation, FS-116 Miles of electric distribution line as of December 31, 2001."

PSC 113.0604(3)(c)

Listed is the average speed of answer information for telephone calls received regarding emergencies, outages, and customer billing problems in 2001 in seconds:

- January: 34.9
- February: 34.3
- March: 40.1
- April: 80.7
- May: 47.4
- June: 42.6
- July: 35.8
- August: 26.3
- September: 27.1
- October: 28.2
- November: 27.7
- December: 38.0

PSC 113.0604 (2)(f)
A status report of any long range electric distribution plans.
05/14/02
'3-2012 S&T Construction Budget List

District Project	AMR Req'd	Estimated Cost 2001	In-Service Date Req'd	Previous Budget
Antigo				
Hogan Street Substation – Construct Substation & one 24.94 kV feeder	Yes	760,000	June 2003	
Chilton				
Glenview – Replace second 69/24.9 kV transformer with 22.4 MVA unit			June 2002	
Glenview – Retrofit Glenview 242 substation regulator controls with the reverse power flow feature due to the addition of 8-800 kW generators.		8,000	January 2002	
Eagle River				
Cranberry 241 Upgrade OCR to 800 amp and Regulators to 400 amp		43,400	June 2010	
Cranberry 241 Upgrade OCR to 800 amp and Regulators to 400 amp		43,400	June 2010	
Green Bay				
Liberty Street – Add 13.8 kV feeder. Contingent on agreement with customer.		510,000	2002	X
Purchase Property as alternative to adding 24.9 kV at University 123			June 2002	
Rockland Rd 242 - Add new feeder			Oct 2002	
Road - Purchase property			June 2003	X
.twood 241 - Add 24.9 kV feeder			June 2003	X
Preble 243 - Add new feeder			June 2003	
Suamico – Add one 138/24.9 kV feeder under WEPCO T line at new substation location or reconstruct Suamico substation with 2-24.9 kV feeders			June 2004	X
South Broadway 242 - Upgrade Regulators to 400 amps			June 2004	
Mystery Hills 241 - Upgrade Regulators to 400 amps			June 2004	
Ontario Road 242 – Add second 24.9 kV feeder			June 2005	X
Bluestone 121 - Remove 12 kV feeder			June 2005	X
James St. – Add second 24.9 kV feeder			*June 2005*	
Van Road 241 – Construct Substation and one 24.9 kV feeder under H-112			June 2005	X
Mason Street – Add fourth 24.9 kV feeder			*June 2006*	
Van Road – Add second 24.9 kV feeder			*June 2007*	
Bayport - Add 24.94 kV feeder			*June 2007*	
Red Maple – Add third 24.9 kV feeder			*June 2008*	
Eastman Avenue – Add third 24.9 kV feeder			*June 2008*	
I-113 or F-6 Substation – Construct substation under I-113 in Lawrence or at Greenwright under F-6 contingent on load growth areas.			*June 2009*	
Bluestone – Add 24.9 kV feeder at existing Bluestone Substation			*June 2010*	
Bayport – Add second 24.94 kV feeder			*June 2010*	
/aunee				
Beardsley St. – Bank 1 replacement – BES 121		Labor Only	Oct 2001	

PSC 113.0604 (2)(f)
A status report of any long range electric distribution plans.
05/14/02
[illegible]3-2012 S&T Construction Budget List

District Project	AMR Req'd	Estimated Cost 2001	In-Service Date Req'd	Previous Budget
Beardsley St. – Bank 2 & 3 replacement – BES 122		Labor Only	June 2003	
Marinette & Menominee				
Aspen Bay Feeder – Contingent on customer	Yes		June 2003	X
Grand Rapids – Construct new substation Contingent on Aspen Bay	Yes		June 2003	X
Wells St. 123 - Convert and install 24.94 kV feeder.	Yes	480,000	June 2003	
Thirtieth Ave. – Add 3rd 12.47kV feeder	Yes	480,000	Dec. 2003	X
2nd St. 121 – Convert and install 24.94 kV feeder	Yes	480,000	June 2004	
Roosevelt Rd. – Add second 24.94 kV feeder	Yes	510,000	June 2007	X
Oconto – Replace transformers with larger units – loss of bay capacity needed			June 2010	X
Merrill				
Pine - Add second 115-46 kV transformer			2003	
Merrill Hydro 242 – Add 24.9 kV feeder		760,000	June 2006	X
ocqua				
ar Lake addition for transmission to West Minocqua Substation			*June 2004*	
St. Germain addition for transmission to Boulder Junction Substation			*June 2004*	
New Substation west of Minocqua		760,000	June 2005	X
Clear Lake 242 - 22.4 MVA Transformer Replacement			2005	
Clear Lake 242 - Upgrade OCR (800 amps) and regulators (400 amps)			2005	
Clear Lake 243 - Upgrade OCR (800 amps) and regulators (400 amps)			2005	
New Substation in the Boulder Junction area		760,000	June 2008	X
Oshkosh				
Bowen St. – Add Circuit Switcher			June 2002	X
Aviation – Add second 24.94 kV feeder		510,000	June 2002	X
SPT 241 – Upgrade regulators to 400A		40,000	July 2002	
Fitzgerald – Add 138/24.94 kV feeder		510,000	June 2004	
Mears – Add second 24.94 kV feeder		510,000	June 2006	
Bowen St. – Remove BNS 121; add second 24.94 kV feeder		480,000	June 2005	X
12th Ave. 121 – Convert and install a second 24.94kV feeder		480,000	June 2010	X
Rhinelander				
Venus 241 – Upgrade transformer		*310,000*	*June 2003*	*X*
Venus 242 – Upgrade transformer		*310,000*	*June 2003*	*X*
ag 241– Upgrade OCR (800 amp) and regulators (400 amp)		43,400	June 2003	X
ighway 8 241 – Upgrade OCR (800 amp) and regulators (400 amp)		43,400	June 2005	X

PSC 113.0604 (2)(f)
A status report of any long range electric distribution plans.
05/14/02
2003-2012 S&T Construction Budget List

District Project	AMR Req'd	Estimated Cost 2001	In-Service Date Req'd	Previous Budget
Crandon Sub – New 24.9 kV feeder		*760,000*	*June 2005*	
Highway 8 243 - Add 22.4 MVA transformer			2006	
Stevens Point				
Portage County Business Park Substation – new 24.94 kV feeder	Yes	760,000	June 2004	
West Side Site – Add 24.9 kV feeder	Yes		June 2009	
Sturgeon Bay				
Brusbay – Purchase land to convert Brusbay substation			June 2001	
Brusbay – Convert to 24.94 kV – needed to maintain voltage	Yes	670,000	June 2003	
Tomahawk				
Eastom 241 or 242 - Upgrade transformer			2005	
Eastom 242 – Larger transformer and 399 & 499 with circuit switchers		*320,000*	*June 2005*	
tom – Replace 399 & 499 switches with circuit switchers			*June 2005*	
om 243 – Upgrade transformer		320,000	2005	X
Eastom 242 – Upgrade Regulators to 300 amp		*40,000*	*2009*	
Eastom 243 - Upgrade Feeder Exit			2009	
CTH Y - Future 115-24.9 kV Sub			Conting	
Eastom 241 - Upgrade Feeder Exit			*2007*	
Two Rivers				
Manrap – Convert to 24.94 kV (needed to maintain voltage)			June 2005	
Wabeno				
Mountain – Add second 24.94kV feeder		480,000	Nov 2003	X
Goodman – Add second 24.94 kV feeder (CONTINGENT)	Yes	480,000	Oct. 2004	X
Silver Cliff – Install 6 MW of Distributed Generation in the Wabeno area.		2 million	2003	X
Laona – Install new substation with one 24.94 kV feeder. (10.5 MVA transformer - 65degree rating.)		760,000	June 2005	X
Waupaca				
Harrison 241 - 800 amp Recloser Upgrade			June 2004	
Harrison 241 - 400 amp Regulator Upgrade			June 2004	
Harrison 241 - Replace Cable Between Transformer and Recloser			2005	
rison 242 - 800 amp Recloser Upgrade			2006	
rison 242 - 400 amp Regulator Upgrade			2006	
New Source - New Feeder at Harrison or West Waupaca			2008	

PSC 113.0604 (2)(f)
A status report of any long range electric distribution plans.
05/14/02
-03-2012 S&T Construction Budget List

District Project	AMR Req'd	Estimated Cost 2001	In-Service Date Req'd	Previous Budget
Wausau				
Sherman Street 242 – Upgrade to 400 amp Regulators and 800 amp OCR's		40,000	June 2002	X
Sherman Street 241 - Upgrade to 400 amp regulators and 800 amp OCR's			2003	
Strowbridge 241 - Build new 25 kV feeder			2004	
Kronen 242 – Upgrade to 400 amp Regulators		*40,000*	*June 2004*	
Townline – Add 24.94 kV feeder		*510,000*	*June 2004*	
Wausau West Substation – Add second 24.94 kV feeder		*510,000*	*June 2006*	
Townline – Add 24.94 kV feeder		*510,000*	*June 2006*	
Cassel 241 & 242 - Upgrade to 400 amp regulators and 800 amp OCR's			2006	
Strowbridge 242 - Add second 25 kV feeder			2007	
Sunnyvale 242 - Add second 25 kV feeder			2007	
Rural East Feeder - Add new 24.9 kV feeder			2008	
Rothschild 242 - Add second 25 kV feeder			2008	
Stratford 242 - Add second feeder or replace transformers with larger units			2010	
..ausaukee				
Remove Dist. Feeders at JOF – Add 24.94 kV feeder at Thunder	Yes		Dec. 2002	X
Add a 138/24.94kV source at Crivitz Substation	Yes	510,000	Jul. 2004	X
Remove Dist. Feeders at Caldron Falls			Dec. 2004	

PSC 113.0604 (3)(b)

Total route miles of electric distribution line in service at year's end, segregated by voltage level.

WISCONSIN PUBLIC SERVICE CORPORATION
FS-116 MILES OF ELECTRIC DISTRIBUTION LINE AS OF DECEMBER 31, 2001

DISTRICT	URBAN RURAL	POLE LINE ON DISTRIBUTION POLES PRIMARY	POLE LINE ON DISTRIBUTION POLES SECONDARY	POLE LINE ON TRANSMISSION POLES PRIMARY	POLE LINE ON TRANSMISSION POLES SECONDARY	TOTAL DISTRUBITION POLE MILES	BURIED CABLE PRIMARY	BURIED CABLE SECONDARY	UNDERGROUND CONDUIT MILES
GREEN BAY	RURAL	1,069.27	125.00	0.98	0.04	1,138.87	364.39	53.55	0.00
	URBAN	572.84	557.14	2.89	1.21	795.44	348.22	222.00	10.34
TOTAL GREEN BAY DIVISION		1,642.11	682.14	3.87	1.25	1,934.31	712.61	275.55	10.34
TWO RIVERS	RURAL	1,003.71	75.96	0.95	0.05	1,051.23	94.22	2.49	0.00
	URBAN	59.40	26.81	0.00	0.00	69.01	10.71	4.32	0.00
CHILTON	RURAL	444.69	17.02	3.62	0.04	458.74	29.05	2.78	0.00
	URBAN	56.46	35.88	1.10	0.37	73.86	22.07	13.54	0.00
STURGEON BAY	RURAL	890.93	99.18	14.61	0.41	987.02	71.31	2.93	0.00
	URBAN	54.12	19.38	0.00	0.00	67.08	13.31	0.86	0.00
KEWAUNEE	RURAL	610.93	23.92	10.95	0.03	641.05	43.17	0.29	0.00
	URBAN	33.21	20.26	0.35	0.00	41.11	15.87	11.59	0.00
TOTAL LAKESHORE DIVISION		3,153.45	318.41	31.58	0.90	3,389.10	299.71	38.80	0.00
OSHKOSH	RURAL	445.55	90.53	0.32	0.02	484.25	89.04	20.43	0.00
	URBAN	168.71	199.20	1.75	1.36	255.31	91.69	48.26	3.49
TOTAL OSHKOSH DIVISION		614.26	289.73	2.07	1.38	739.56	180.73	68.69	3.49
WAUSAU	RURAL	1,422.03	111.46	6.83	0.19	1,495.92	207.72	29.65	0.18
	URBAN	319.84	232.26	11.74	2.22	430.37	120.78	59.65	4.15
MERRILL	RURAL	666.89	38.13	2.89	0.04	697.15	101.74	3.28	0.00
	URBAN	51.85	45.64	4.02	0.91	75.03	11.09	4.28	0.00
STEVENS POINT	RURAL	577.97	44.77	9.13	0.02	619.89	114.63	13.31	0.00
	URBAN	162.06	119.81	0.06	0.05	230.81	86.51	37.73	0.52
WAUPACA	RURAL	155.84	26.70	0.00	0.00	172.78	49.77	5.04	0.00
	URBAN	36.46	28.18	0.00	0.00	51.22	12.26	4.69	0.00
TOTAL WAUSAU DIVISION		3,392.94	646.95	34.67	3.43	3,773.17	704.50	157.63	4.85
EAGLE RIVER	RURAL	403.78	59.38	0.00	0.00	456.95	166.91	4.34	0.00
	URBAN	2.07	0.10	0.00	0.00	2.15	1.05	0.00	0.00
TOMAHAWK	RURAL	362.75	61.15	1.42	0.00	413.16	95.33	2.90	0.00
	URBAN	37.86	21.76	0.46	0.05	50.79	8.40	1.21	0.00
MINOCQUA	RURAL	873.42	175.01	0.00	0.00	1,029.07	286.26	16.01	0.00
RHINELANDER	RURAL	860.08	90.72	3.13	0.03	933.45	255.31	6.22	0.00
	URBAN	70.22	48.15	0.49	0.00	97.46	16.31	3.67	1.26
ANTIGO	RURAL	470.60	30.29	0.14	0.00	497.37	70.02	2.74	0.00
	URBAN	48.26	31.98	0.00	0.00	66.19	11.20	4.14	0.00
TOTAL RHINELANDER DIVISION		3,129.04	518.54	5.64	0.08	3,546.59	910.79	41.23	1.26
MARINETTE	RURAL	644.07	48.99	0.29	0.00	678.81	89.58	2.29	0.00
	URBAN	123.63	107.10	0.65	0.00	171.00	26.94	10.70	0.00
WABENO	RURAL	785.81	118.37	7.89	0.15	890.31	255.05	6.17	0.00
	URBAN	6.51	4.47	0.00	0.00	8.91	0.99	0.30	0.00
WAUSAUKEE	RURAL	831.68	91.54	0.04	0.00	903.35	284.28	7.48	0.00
	URBAN	21.31	15.26	0.00	0.00	29.18	4.40	0.53	0.00
TOTAL M & M WISCONSIN		2,413.01	385.73	8.87	0.15	2,681.56	661.24	27.47	0.00
TOTAL WISCONSIN		14,344.81	2,841.50	86.70	7.19	16,064.29	3,469.58	609.37	19.94
MENOMINEE	RURAL	399.61	31.75	15.09	0.70	440.55	28.38	0.24	0.00
	URBAN	47.60	47.40	2.65	0.43	71.83	12.64	3.71	3.80
TOTAL M & M MICHIGAN		447.21	79.15	17.74	1.13	512.38	41.02	3.95	3.80
TOTAL COMPANY		14,792.02	2,920.65	104.44	8.32	16,576.67	3,510.60	613.32	23.74

PSC 113.0604 (3)(d)
The average number of calendar days a utility takes to install and energize service to a customer site once it is ready to receive service.

PSCW 113 Data for 2001

Currently our Customer Information System does not contain a field for Customer Ready Date. Therefore the following data is based on the following criteria:

1. Application Received Date in 2001
2. Meter Set Date in 2001

The data shown is the number of calendar days from the application received date to the meter set date in 2001.

January	162
February	115
March	85
April	106
May	102
June	91
July	76
August	64
September	53
October	39
November	27
December	16

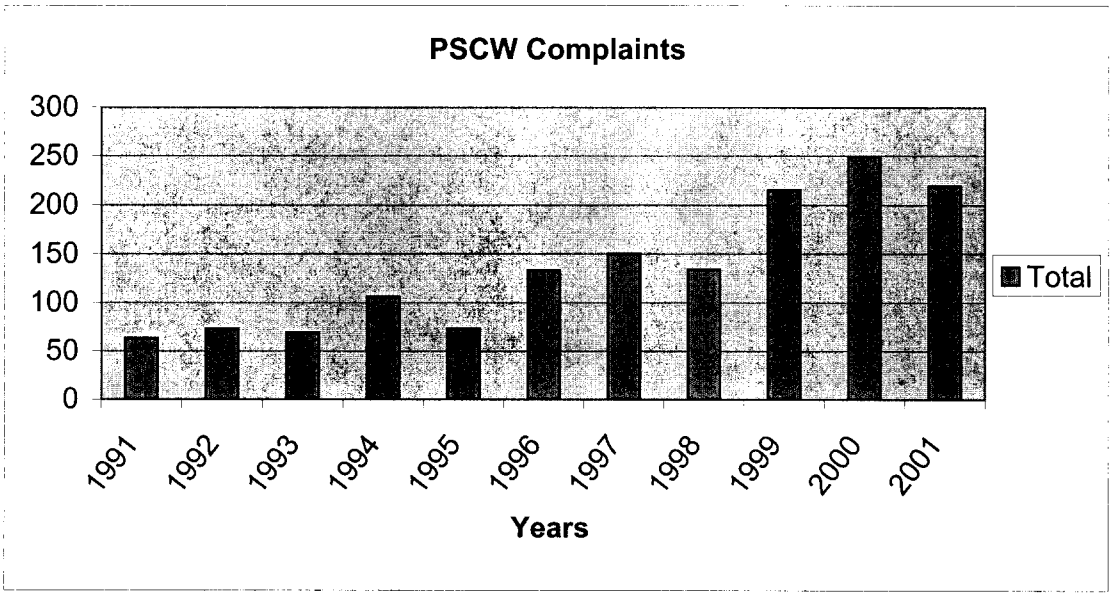
Annual Average: 77

PSC 113.0604 (3)(e)

The total number of written and telephone customer complaints received in the areas of safety, customer billing, outages, power quality, customer property damage, and other areas.

PSCW Commission Complaints Summary 1991-2001

Nature of Inquiry	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Billing	6	10	5	9	4	5	8	11	13	28	40
Credit	27	28	27	70	41	77	110	84	170	192	162
Other	0	1	2	1	4	11	4	7	1	2	5
Outages	0	0	0	0	0	0	0	0	1	4	1
Electric Service Ext	13	12	15	11	6	9	10	4	9	6	1
Gas Service Ext	1	3	6	2	1	1	4	5	1	1	0
Rate Classifications / Appl	2	2	1	0	1	1	4	1	0	0	1
Relocate WPSC Facilities	6	3	4	3	3	2	0	0	3	2	1
Service Reliability	1	3	2	1	1	0	1	1	2	0	0
Customer Service Calls / Charts	1	6	2	5	1	6	0	0	0	2	1
Line Clearance / R-O-W Spray	2	3	2	0	1	5	1	0	10	2	0
Meter Locations / Size	0	0	0	1	0	0	0	1	1	0	0
Damage to Customer Facilities	2	1	2	3	3	4	0	1	0	0	0
Gas Odor / Leak	1	0	0	0	1	0	0	0	0	0	0
Radio / TV Interference	0	0	0	0	0	0	0	9	0	2	1
Stray Voltage	0	0	0	0	6	12	6	9	3	4	2
Backbilling / Defective Meter	0	0	0	0	0	0	2	0	0	1	1
Weatherization	0	0	1	0	0	0	0	0	0	1	0
Unacceptable Service Condition	1	0	0	0	0	0	0	1	1	0	0
Trade Allies	0	1	0	0	0	0	0	0	0	0	0
Property Damage to Customer	-	-	-	-	-	-	-	-	-	2	3
Total	63	73	69	106	73	133	150	134	215	249	219



PSC 113.0604(3)(f)

2001 Line Clearance Budget Summary:

Total annual tree trimming budget: $5,352,477
Total annual tree trimming actual expenses: $4,475,477

PSC 113.0604(3)(g)

2001 Line Clearance Line-Mile Summary:

Annual projected miles of distribution line tree trimmed: 3056
Total actual miles of distribution line tree trimmed: 3120