we energies

231 W. Michigan Street
Milwaukee, WI 53203
www.we-energies.com





February 2, 2012

RECEIVED
FEB 07 2012
MICHIGAN PUBLIC SERVICE
COMMISSION

Mary Jo Kunkle
Executive Secretary
Michigan Public Service commission
6545 Mercantile Way
Lansing, MI 48909

RE: Meter test summaries (R460.3617(2))

Ms. Kunkle,

Enclosed are copies of the meter test summaries for We Energies meters in Michigan for the year ended December 31, 2011. The summary sheets have been prepared in accordance with the Michigan Rules (R460.3617(2)).

In addition, 2011 in-service statistical sample test plan results as submitted to the Public Service Commission of Wisconsin have been included for submittal to the Michigan Public Service Commission. Both Wisconsin and Michigan meters have been tested under the Wisconsin statistical sample testing plan in accordance with MPSC Case No. U-10545.

If you have any questions, please contact Mr. Thomas Held at 414-221-3688.

Sincerely,

Roman A. Draba
Vice President
Regulatory Affairs & Policy

Attachments

Copy sent to Reg. Energy. 2/8/12 -AA

WISCONSIN ELECTRIC POWER COMPANY
PRIOR TO ADJUSTMENTS-METER TEST ACCURACY SUMMARY
2011

TEST CLASS: POLYPHASE SELF-CONTAINED (TEST INTERVAL - 10 YEARS)

TYPE	NUMBER TESTED	CREEPING	NOT RECORDING	REGISTRATION IN PERCENT																						
				HEAVY LOAD - 100% POWER FACTOR												LIGHT LOAD - 100% POWER FACTOR										
				94.0 AND UNDER	94.1 TO 96.0	96.1 TO 97.0	97.1 TO 98.0	98.1 TO 99.0	99.1 TO 100.0	100.1 TO 101.0	101.1 TO 102.0	102.1 TO 103.0	103.1 TO 104.0	104.1 TO 106.0	OVER 106.0	94.0 AND UNDER	94.1 TO 96.0	96.1 TO 97.0	97.1 TO 98.0	98.1 TO 99.0	99.1 TO 100.0	100.1 TO 101.0	101.1 TO 102.0	102.1 TO 103.0	103.1 TO 104.0	104.1 TO 106.0	OVER 106.0
KV	17								17												17						
P20	1								1													1					
SSSL	1									1												1					
SVST	10		1	1					4	5						1					5	4					
V3	1									1										1							
V6	1														1												1
V63	2								1	1											1	1					
V64	5								2	2	1									1	3	1					
V65	1									1												1					
V66	8		1	1					2	5						2				1	4	1					
Totals	**47**		**2**	**2**					**27**	**16**	**1**				**1**	**3**				**3**	**30**	**10**					**1**

TYPE	HEAVY LOAD – 50% POWER FACTOR											
KV						17						
P20						1						
SSSL						1						
SVST	1					3	4					
V3						1						
V6											1	
V63						1	1					
V64					2	1	1					
V65							1					
V66	1			1		6						
Totals	**2**			**1**	**2**	**31**	**7**				**1**	

WISCONSIN ELECTRIC POWER COMPANY
PRIOR TO ADJUSTMENTS-METER TEST ACCURACY SUMMARY
2011

TEST CLASS: POLYPHASE TRANSFORMER RATED (TEST INTERVAL - 4 YEARS)

TYPE	NUMBER TESTED	CREEPING	NOT RECORDING	REGISTRATION IN PERCENT																			
				HEAVY LOAD - 100% POWER FACTOR												LIGHT LOAD - 100% POWER FACTOR											
				94.0 AND UNDER	94.1 TO 96.0	96.1 TO 97.0	97.1 TO 98.0	98.1 TO 99.0	99.1 TO 100.0	100.1 TO 101.0	101.1 TO 102.0	102.1 TO 103.0	103.1 TO 104.0	104.1 TO 106.0	OVER 106.0	94.0 AND UNDER	94.1 TO 96.0	96.1 TO 97.0	97.1 TO 98.0	98.1 TO 99.0	99.1 TO 100.0	100.1 TO 101.0	101.1 TO 102.0	102.1 TO 103.0	103.1 TO 104.0	104.1 TO 106.0	OVER 106.0
DCRS2	1									1											1					
EV3	1								1												1					
EV4	4								2	2											2	2				
KV	26								21	5											15	11				
MARK5	3		1	1					2							1					2					
P20	1								1												1					
SSSL	4								1	3												4				
STQ	2								2													2				
SVST	72		1	1					41	30						1					33	38				
V3	2									2											1	1				
V63	11								2	9											2	7	2			
V64	8								4	4											3	5				
V65	3									3												3				
Totals	**138**		**2**	**2**					77	**59**						**2**					**60**	**74**	**2**			

TYPE	HEAVY LOAD - 50% POWER FACTOR											
DCRS2							1					
EV4						1	1					
KV						24	2					
MARK5	1					2						
P20						1						
SSSL						3	1					
STQ						1	1					
SVST	1					4	38					
V3							1					
V63						1	7					
V64						8						
V65						1	2					
Totals	**2**					**46**	**54**					

WISCONSIN ELECTRIC POWER COMPANY
PRIOR TO ADJUSTMENTS-METER TEST ACCURACY SUMMARY
2011

TEST CLASS: SINGLE-PHASE TRANSFORMER RATED (TEST INTERVAL - 12 YEARS)

TYPE	NUMBER TESTED	CREEPING	NOT RECORDING	REGISTRATION IN PERCENT																						
				HEAVY LOAD - 100% POWER FACTOR												LIGHT LOAD - 100% POWER FACTOR										
				94.0 AND UNDER	94.1 TO 96.0	96.1 TO 97.0	97.1 TO 98.0	98.1 TO 99.0	99.1 TO 100.0	100.1 TO 101.0	101.1 TO 102.0	102.1 TO 103.0	103.1 TO 104.0	104.1 TO 106.0	OVER 106.0	94.0 AND UNDER	94.1 TO 96.0	96.1 TO 97.0	97.1 TO 98.0	98.1 TO 99.0	99.1 TO 100.0	100.1 TO 101.0	101.1 TO 102.0	102.1 TO 103.0	103.1 TO 104.0	104.1 TO 106.0	OVER 106.0
I70	2								1	1											2						
J5	1									1												1					
KV	6		1	1					4	1						1					5						
MS	1								1													1					
Totals	**10**		**1**	**1**					**6**	**3**						**1**					**7**	**2**					

TYPE	HEAVY LOAD - 50% POWER FACTOR											
J5							1					
MS							1					
Totals							**2**					

WISCONSIN ELECTRIC POWER COMPANY
PRIOR TO ADJUSTMENTS-METER TEST ACCURACY SUMMARY
2011

TEST CLASS: SINGLE-PHASE SELF-CONTAINED WITH ASSOCIATED EQUIPMENT NOT COVERED UNDER RULE 613(2)(b) (TEST INTERVAL - 12 YEARS)

TYPE	NUMBER TESTED	CREEPING	NOT RECORDING	REGISTRATION IN PERCENT																							
				HEAVY LOAD - 100% POWER FACTOR												LIGHT LOAD - 100% POWER FACTOR											
				94.0 AND UNDER	94.1 TO 96.0	96.1 TO 97.0	97.1 TO 98.0	98.1 TO 99.0	99.1 TO 100.0	100.1 TO 101.0	101.1 TO 102.0	102.1 TO 103.0	103.1 TO 104.0	104.1 TO 106.0	OVER 106.0	94.0 AND UNDER	94.1 TO 96.0	96.1 TO 97.0	97.1 TO 98.0	98.1 TO 99.0	99.1 TO 100.0	100.1 TO 101.0	101.1 TO 102.0	102.1 TO 103.0	103.1 TO 104.0	104.1 TO 106.0	OVER 106.0
EV1	1									1											1						
I210C	11		1	1					8	2						1					8	2					
I70	1									1											1						
J5	89								45	43		1								3	65	18	2	1			
KV	2								2												2						
MS	7								5	2										1	4	2					
MSK	4									4											2	2					
SSSL	13								7	6											5	8					
Totals	**128**		**1**	**1**					**67**	**59**		**1**				**1**				**4**	**87**	**33**	**2**	**1**			

TYPE	HEAVY LOAD - 50% POWER FACTOR

WISCONSIN ELECTRIC POWER COMPANY
PRIOR TO ADJUSTMENTS-METER TEST ACCURACY SUMMARY
2011

TEST CLASS: SINGLE-PHASE SELF-CONTAINED - RESULTS OF TESTS OTHER THAN PERIODIC TESTS FOR METERS INCLUDED IN R460.3613(2)(b)

TYPE	NUMBER TESTED	CREEPING	NOT RECORDING	REGISTRATION IN PERCENT																				
				HEAVY LOAD - 100% POWER FACTOR												LIGHT LOAD - 100% POWER FACTOR											
				94.0 AND UNDER	94.1 TO 96.0	96.1 TO 97.0	97.1 TO 98.0	98.1 TO 99.0	99.1 TO 100.0	100.1 TO 101.0	101.1 TO 102.0	102.1 TO 103.0	103.1 TO 104.0	104.1 TO 106.0	OVER 106.0	94.0 AND UNDER	94.1 TO 96.0	96.1 TO 97.0	97.1 TO 98.0	98.1 TO 99.0	99.1 TO 100.0	100.1 TO 101.0	101.1 TO 102.0	102.1 TO 103.0	103.1 TO 104.0	104.1 TO 106.0	OVER 106.0
ALFA	180		5	5		1	1		146	27						5		1	1		158	15					
I210	730		55	55			1		477	194	1	2				55		1			430	241		3			
MS	1								1										1								
MSK	5								3	2											2	3					
Totals	**916**		**60**	**60**		**1**	**2**		**627**	**223**	**1**	**2**				**60**		**2**	**2**		**590**	**259**		**3**			

TYPE	HEAVY LOAD - 50% POWER FACTOR

REJECTED LOT FORM

SSTP REPORTING FORM PSC 113.0919(4)
ELECTRIC METER SSTP PSC 113.0921

PUBLIC SERVICE COMMISSION OF WISCONSIN

UTILITY: Wisconsin Electric Power Company

YEAR GROUP FAILED: 2008

GROUP: WED5L6

NUMBER IN GROUP: 1795

FULL LOAD M : 2.71

LIGHT LOAD M 8.09

YEAR TESTED	METERS TESTED	FULL LOAD $\overline{X}$	FULL LOAD S	FULL LOAD P	FULL LOAD ACTUAL P	LIGHT LOAD $\overline{X}$	LIGHT LOAD S	LIGHT LOAD P	LIGHT LOAD ACTUAL P
2009	935	RETIRED WITHOUT TEST							
2010	238	RETIRED WITHOUT TEST							
2011	27	RETIRED WITHOUT TEST (A total of 1782 meters have been removed. 13 remain installed. Of the 1782 removed meters, 582 are waiting to be retired.)							
TOTAL	1200								

NEW GROUP(S)	NUMBER
RETIRED	1200

Failed lots must have all meters tested within four (4) years from January 1 of the reporting year.

$\overline{X}$, S, P, calculated at full load and light load test points using procedure on pages 4, 43, 45, and 103 of MIL-STD-414, 11 June 1957.

M - same as that calculated for failed group.

Actual P - Do not include stopped meters at either test point.

SSTP REPORTING FORM PSC 113.0919 (3) PUBLIC SERVICE COMMISSION OF WISCONSIN
ELECTRIC METER SSTP PSC 113.0921

UTILITY: WISCONSIN ELECTRIC POWER COMPANY 2011

SAMPLE TESTING DATA

GROUP	TOTAL METER	METERS SAMPLE	FULL LOAD TESTING SAMPLE							LIGHT LOAD TESTING SAMPLE						
MFG-TYPE-LOT	LOT	TESTED	$\overline{X}$	S	P	M	$\Delta\overline{X}$	ΔS	ΔP	$\overline{X}$	S	P	M	$\Delta\overline{X}$	ΔS	ΔP
GE210L101	9,740	75	99.994	0.051	0.000	2.290	0.103-	0.110-	0.000	100.005	0.046	0.000	7.150	0.030	0.050-	0.000
GE210L102	9,690	75	99.983	0.053	0.000	2.290	0.095-	0.083-	0.000	99.986	0.047	0.000	7.150	0.003	0.003-	0.000
GE210L103	7,455	50	99.992	0.058	0.000	2.490	0.026-	0.055-	0.000	99.999	0.055	0.000	7.610	0.019	0.000	0.000
GE210L201	9,562	75	99.992	0.069	0.000	2.290	0.054-	0.028-	0.000	99.998	0.066	0.000	7.150	0.003	0.005	0.000
GE210L202	9,800	75	99.982	0.065	0.000	2.290	0.030-	0.051-	0.000	99.990	0.058	0.000	7.150	0.015	0.001	0.000
GE210L203	9,813	75	99.990	0.054	0.000	2.290	0.050-	0.065-	0.000	99.998	0.054	0.000	7.150	0.002-	0.004-	0.000
GE210L204	8,922	75	99.998	0.063	0.000	2.290	0.025-	0.038-	0.000	100.001	0.061	0.000	7.150	0.006	0.005	0.000
GE210L205	10,024	75	99.984	0.062	0.000	2.290	0.016-	0.021-	0.000	99.993	0.062	0.000	7.150	0.002	0.011-	0.000
GE210L301	9,662	75	100.009	0.292	0.000	2.290	0.020-	0.222-	0.003-	100.028	0.316	0.000	7.150	0.007-	0.204-	0.006-
GE210L302	9,646	75	100.000	0.063	0.000	2.290	0.003	0.043-	0.000	100.010	0.070	0.000	7.150	0.009	0.035-	0.000
GE210L303	8,467	75	99.985	0.208	0.000	2.290	0.033	0.230-	0.000	99.995	0.205	0.000	7.150	0.049	0.266-	0.000
GE210L304	9,185	75	99.976	0.448	0.000	2.290	0.003-	0.390	0.000	99.983	0.461	0.000	7.150	0.005	0.403	0.000
GE210L305	9,853	75	99.996	0.058	0.000	2.290	0.006-	0.007	0.000	100.001	0.055	0.000	7.150	0.005	0.002	0.000
GE210L306	9,453	75	99.993	0.130	0.000	2.290	0.016-	0.068	0.000	99.998	0.138	0.000	7.150	0.011-	0.079	0.000
GE210L401	9,357	75	99.988	0.077	0.000	2.290	0.023-	0.083-	0.000	99.999	0.079	0.000	7.150	0.026-	0.089-	0.000
GE210L402	9,143	75	100.003	0.063	0.000	2.290	0.007	0.003	0.000	100.008	0.060	0.000	7.150	0.005	0.001-	0.000
GE210L403	8,072	75	99.999	0.184	0.000	2.290	0.018-	0.125	0.000	100.003	0.190	0.000	7.150	0.015-	0.125	0.000
GE210L404	8,957	75	100.038	0.419	0.000	2.290	0.070	0.244	0.000	100.052	0.444	0.000	7.150	0.082	0.260	0.000
GE210L405	9,838	75	99.999	0.106	0.000	2.290	0.024-	0.034-	0.000	99.994	0.051	0.000	7.150	0.027-	0.101-	0.000
GE210L406	9,882	75	100.006	0.044	0.000	2.290	0.001	0.056-	0.000	100.017	0.042	0.000	7.150	0.012	0.061-	0.000
GE210L5	3,784	50	99.979	0.068	0.000	2.490	0.021-	0.013	0.000	99.989	0.073	0.000	7.610	0.011-	0.017	0.000
GE21CL1	10,487	75	99.990	0.133	0.000	2.290	0.025	0.029	0.000	99.971	0.105	0.000	7.150	0.025	0.075	0.000
GEI70L23	34,815	100	99.960	0.157	0.000	2.200				99.887	0.259	0.000	6.910			
GEI70L24	35,328	100	99.958	0.162	0.000	2.200				99.892	0.419	0.000	6.910			
GEXXL02	2,094	40	100.079	0.176	0.000	2.710				100.097	0.428	0.000	8.090			
GTI70L3	2,053	40	99.984	0.187	0.000	2.710	0.110-	0.002	0.000	99.870	0.380	0.000	8.090	0.245-	0.307-	0.258-
GTSSL1	3,546	50	99.922	0.119	0.000	2.490	0.001-	0.030	0.000	99.922	0.126	0.000	7.610	0.015-	0.050	0.000
MFG TOTAL	278,628	1,930														

NOTE:

(1) XX = Mixed type lot

(2) $\Delta\overline{X}$, ΔS, & ΔP = Current year minus previous year.
Example: $\Delta\overline{X}$= $\overline{X}$ of 2009 - $\overline{X}$ of 2008

(3) * Designates lot failed once.

(4) ** Designates lot failed twice.

(5) First failed separated lot. EXAMPLE *SA-J3-L2-1
*SA-J3-L2-2

SSTP REPORTING FORM PSC 113.0919 (3) PUBLIC SERVICE COMMISSION OF WISCONSIN
ELECTRIC METER SSTP PSC 113.0921

UTILITY: WISCONSIN ELECTRIC POWER COMPANY 2011

SAMPLE TESTING DATA

GROUP	TOTAL METER LOT	METERS SAMPLE TESTED	FULL LOAD TESTING SAMPLE							LIGHT LOAD TESTING SAMPLE						
MFG-TYPE-LOT			$\overline{X}$	S	P	M	$\Delta\overline{X}$	Δ S	ΔP	$\overline{X}$	S	P	M	$\Delta\overline{X}$	Δ S	Δ P
LGFAL1	12,006	75	99.951	0.061	0.000	2.290	0.001-	0.002-	0.000	99.937	0.048	0.000	7.150	0.004-	0.008-	0.000
LGFAL2	184	20	99.949	0.071	0.000	2.950				99.991	0.048	0.000	8.920			
LGFAXL1	5,460	50	99.956	0.049	0.000	2.490	0.008	0.010-	0.000	99.950	0.037	0.000	7.610	0.014	0.014-	0.000
LGFCL1	47,628	100	99.934	0.079	0.000	2.200	0.047	0.024-	0.000	99.945	0.073	0.000	6.910	0.009-	0.002	0.000
LGFCL2	50,534	100	99.906	0.134	0.000	2.200	0.040	0.036	0.000	99.923	0.130	0.000	6.910	0.025-	0.069	0.000
LGFCL3	34,510	100	99.933	0.076	0.000	2.200	0.042	0.017-	0.000	99.926	0.060	0.000	6.910	0.008-	0.007-	0.000
LGFCL4	48,701	100	99.932	0.072	0.000	2.200	0.051	0.024-	0.000	99.935	0.058	0.000	6.910	0.020	0.008-	0.000
LGFCL5	50,564	100	99.936	0.070	0.000	2.200	0.026	0.015-	0.000	99.942	0.054	0.000	6.910	0.014	0.008-	0.000
LGFCL6	22,087	100	99.964	0.052	0.000	2.200	0.012	0.002-	0.000	99.983	0.042	0.000	6.910	0.007	0.004	0.000
LGFCL7	49	7	99.937	0.042	0.000	3.550				99.961	0.021	0.000	2.200			
LGFCXL1	15,738	75	99.918	0.062	0.000	2.290	0.018-	0.001-	0.000	99.939	0.064	0.000	7.150	0.020-	0.001-	0.000
LGMSL12	31,019	100	99.939	0.179	0.000	2.200				99.904	0.358	0.000	6.910			
LGMSL13	52	7	99.965	0.353	0.000	3.550				99.094	0.673	0.000	2.200			
LGXXL2	293	20	100.029	0.135	0.000	2.950				99.792	0.306	0.000	8.920			
LTMSL1	467	25	100.014	0.204	0.000	2.860	0.004-	0.098-	0.000	99.819	0.409	0.000	8.630	0.038-	0.031-	0.000
MFG TOTAL	319,292	979														

NOTE:

(1) XX = Mixed type lot
(2) $\Delta\overline{X}$, ΔS, & ΔP = Current year minus previous year.
Example: $\Delta\overline{X}$= $\overline{X}$ of 2009 - $\overline{X}$ of 2008

(3) * Designates lot failed once.
(4) ** Designates lot failed twice.
(5) First failed separated lot. EXAMPLE *SA-J3-L2-1
*SA-J3-L2-2

SSTP REPORTING FORM PSC 113.0919 (3) PUBLIC SERVICE COMMISSION OF WISCONSIN
ELECTRIC METER SSTP PSC 113.0921

UTILITY: WISCONSIN ELECTRIC POWER COMPANY 2011

SAMPLE TESTING DATA

GROUP	TOTAL METER LOT	METERS SAMPLE TESTED	FULL LOAD TESTING SAMPLE							LIGHT LOAD TESTING SAMPLE						
MFG-TYPE-LOT			$\overline{X}$	S	P	M	$\Delta\overline{X}$	ΔS	ΔP	$\overline{X}$	S	P	M	$\Delta\overline{X}$	ΔS	ΔP
SAC1L1	53,606	100	100.108	0.152	0.000	2.200	0.020	0.022-	0.000	100.045	0.098	0.000	6.910	0.037	0.025-	0.000
SAC1L2	36,392	100	100.093	0.189	0.000	2.200	0.024-	0.018	0.000	100.011	0.099	0.000	6.910	0.017	0.038-	0.000
SAC1L3	42,972	100	100.112	0.188	0.000	2.200	0.033	0.004-	0.000	100.016	0.097	0.000	6.910	0.013	0.030-	0.000
SAC1L4	60,137	100	100.111	0.162	0.000	2.200	0.036	0.008	0.000	100.008	0.087	0.000	6.910	0.035	0.028-	0.000
SAC1L5	60,297	100	100.104	0.174	0.000	2.200	0.033	0.019	0.000	100.004	0.097	0.000	6.910	0.036	0.023-	0.000
SAC1L6	57,733	100	100.068	0.189	0.000	2.200	0.005	0.021	0.000	99.979	0.108	0.000	6.910	0.010	0.002-	0.000
SAC1L7	57,283	100	100.065	0.197	0.000	2.200	0.015-	0.040	0.000	99.978	0.109	0.000	6.910	0.031	0.001-	0.000
SAC1L8	42,473	100	100.064	0.139	0.000	2.200	0.016	0.010-	0.000	99.923	0.132	0.000	6.910	0.016	0.022	0.000
SACNL1	23,388	100	100.056	0.197	0.000	2.200	0.023-	0.017	0.000	100.035	0.171	0.000	6.910	0.006	0.016	0.000
SAJ3L9	130	15	99.694	0.350	0.000	3.050				100.152	0.495	0.000	9.460			
SAJ5L10	53,210	100	99.991	0.251	0.000	2.200				99.916	0.319	0.000	6.910			
SAXXL2	3,032	40	100.089	0.112	0.000	2.710				99.979	0.196	0.000	8.090			
STJ5L1	3,830	50	100.067	0.280	0.000	2.490	0.030-	0.048-	0.000	99.812	0.445	0.000	7.610	0.246-	0.093-	0.008-
STSENL1	6,683	50	100.021	0.044	0.000	2.490	0.035-	0.041-	0.000	100.030	0.028	0.000	7.610	0.019-	0.020-	0.000
STSENL2	13,991	75	100.040	0.054	0.000	2.290	0.012	0.021-	0.000	100.044	0.042	0.000	7.150	0.012	0.020-	0.000
STSENL3	135	15	100.035	0.036	0.000	3.050				100.018	0.030	0.000	9.460			
STSENL4	261	20	100.026	0.054	0.000	2.950				100.018	0.032	0.000	8.920			
STSSL1	2,209	40	99.945	0.074	0.000	2.710	0.015	0.035-	0.000	99.928	0.055	0.000	8.090	0.001-	0.016-	0.000
STSSL2	597	30	100.005	0.058	0.000	2.830	0.045	0.010-	0.000	100.001	0.051	0.000	8.470	0.027	0.005-	0.000
MFG TOTAL	518,359	1,335														

NOTE:

(1) XX = Mixed type lot

(2) $\Delta\overline{X}$, ΔS, & ΔP = Current year minus previous year.
Example: $\Delta\overline{X}$= $\overline{X}$ of 2009 - $\overline{X}$ of 2008

(3) * Designates lot failed once.

(4) ** Designates lot failed twice.

(5) First failed separated lot. EXAMPLE *SA-J3-L2-1
*SA-J3-L2-2

SSTP REPORTING FORM PSC 113.0919 (3) — PUBLIC SERVICE COMMISSION OF WISCONSIN
ELECTRIC METER SSTP PSC 113.0921

UTILITY: WISCONSIN ELECTRIC POWER COMPANY — 2011

SAMPLE TESTING DATA

GROUP	TOTAL METER	METERS SAMPLE	FULL LOAD TESTING SAMPLE							LIGHT LOAD TESTING SAMPLE						
MFG-TYPE-LOT	LOT	TESTED	$\overline{X}$	S	P	M	$\Delta\overline{X}$	ΔS	ΔP	$\overline{X}$	S	P	M	$\Delta\overline{X}$	ΔS	ΔP
WED4L12	117	15	100.011	0.323	0.000	3.050				100.088	0.512	0.000	9.460			
WEXXL1	5,359	50	100.002	0.237	0.000	2.490	0.017-	0.016	0.000	99.907	0.453	0.000	7.610	0.071	0.029-	0.002-
MFG TOTAL	5,476	65														
COMPANY TOTAL	1,121,755															
MICHIGAN TOTAL	27,928															
WISCONSIN TOTAL	1,093,827															

NOTE:

(1) XX = Mixed type lot
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Example: $\Delta\overline{X}$= $\overline{X}$of 2009 - $\overline{X}$of 2008

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(4) ** Designates lot failed twice.
(5) First failed separated lot. EXAMPLE *SA-J3-L2-1
*SA-J3-L2-2

SSTP REPORTING FORM PSC 113.0919 (3) PUBLIC SERVICE COMMISSION OF WISCONSIN
ELECTRIC METER SSTP PSC 113.0921

UTILITY: WISCONSIN ELECTRIC POWER COMPANY 2012

SAMPLE TESTING DATA

GROUP	TOTAL METER	METERS SAMPLE	FULL LOAD TESTING SAMPLE							LIGHT LOAD TESTING SAMPLE						
MFG-TYPE-LOT	LOT	TESTED	$\bar{X}$	S	P	M	$\Delta\bar{X}$	Δ S	ΔP	$\bar{X}$	S	P	M	$\Delta\bar{X}$	Δ S	Δ P
GE210L101	9,744	75														
GE210L102	9,668	75														
GE210L103	7,550	50														
GE210L201	9,604	75														
GE210L202	9,830	75														
GE210L203	9,810	75														
GE210L204	8,968	75														
GE210L205	10,299	75														
GE210L301	9,682	75														
GE210L302	9,618	75														
GE210L303	8,401	75														
GE210L304	9,112	75														
GE210L305	9,830	75														
GE210L306	9,419	75														
GE210L401	9,346	75														
GE210L402	9,093	75														
GE210L403	8,031	75														
GE210L404	8,900	75														
GE210L405	9,839	75														
GE210L406	9,865	75														
GE210L5	3,764	50														
GE21CL1	11,418	75														
GEI70L2301	11,086	75														
GEI70L2302	12,460	75														
GEI70L2303	10,958	75														
GEI70L24	34,906	100														
GETRPL1	913	35														
GETRPL2	1,923	40														
GETRSL1	3,712	50														
GEXXL02	2,084	40														
GTI70L3	1,796	40														
GTSSL1	367	25														
GTSSL2	1,459	40														
GTSSL3	1,764	40														
MFG TOTAL	285,219	2,235														

NOTE:

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(5) First failed separated lot. EXAMPLE *SA-J3-L2-1
*SA-J3-L2-2

SSTP REPORTING FORM PSC 113.0919 (3)
ELECTRIC METER SSTP PSC 113.0921

PUBLIC SERVICE COMMISSION OF WISCONSIN

UTILITY: WISCONSIN ELECTRIC POWER COMPANY

2012

SAMPLE TESTING DATA

GROUP	TOTAL METER	METERS SAMPLE	FULL LOAD TESTING SAMPLE							LIGHT LOAD TESTING SAMPLE						
MFG-TYPE-LOT	LOT	TESTED	$\overline{X}$	S	P	M	$\Delta\overline{X}$	Δ S	Δ P	$\overline{X}$	S	P	M	$\Delta\overline{X}$	Δ S	Δ P
LGFAL1	11,579	75														
LGFAL2	179	15														
LGFAXL1	5,732	50														
LGFCL1	47,360	100														
LGFCL2	50,266	100														
LGFCL3	34,307	100														
LGFCL4	48,556	100														
LGFCL5	50,445	100														
LGFCL6	28,848	100														
LGFCL7	186	20														
LGFCXL1	16,898	75														
LGMSL12	30,744	100														
LGMSL13	35	5														
LGTRPL1	76	10														
LGTRPL2	119	15														
LGTRSL1	1070	35														
LGXXL2	290	20														
LTMSL1	366	25														
LTSSL1	47	7														
MFG TOTAL	327,103	1,052														

NOTE:

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(3) * Designates lot failed once.
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*SA-J3-L2-2

SSTP REPORTING FORM PSC 113.0919 (3)
ELECTRIC METER SSTP PSC 113.0921

PUBLIC SERVICE COMMISSION OF WISCONSIN

UTILITY: WISCONSIN ELECTRIC POWER COMPANY

2012

SAMPLE TESTING DATA

GROUP	TOTAL METER	METERS SAMPLE	FULL LOAD TESTING SAMPLE							LIGHT LOAD TESTING SAMPLE						
MFG-TYPE-LOT	LOT	TESTED	$\bar{X}$	S	P	M	$\Delta\bar{X}$	ΔS	ΔP	$\bar{X}$	S	P	M	$\Delta\bar{X}$	ΔS	ΔP
SAC1L101	11,732	75														
SAC1L102	11,822	75														
SAC1L103	11,900	75														
SAC1L104	11,772	75														
SAC1L105	11,214	75														
SAC1L201	10,596	75														
SAC1L202	10,281	75														
SAC1L203	10,316	75														
SAC1L301	10,704	75														
SAC1L302	10,767	75														
SAC1L303	10,697	75														
SAC1L304	10,688	75														
SAC1L401	10,002	75														
SAC1L402	10,001	75														
SAC1L403	9,970	75														
SAC1L404	10,049	75														
SAC1L405	9,990	75														
SAC1L406	9,757	75														
SAC1L501	10,000	75														
SAC1L502	10,051	75														
SAC1L503	9,990	75														
SAC1L504	10,042	75														
SAC1L505	9,928	75														
SAC1L506	9,917	75														
SAC1L601	373	25														
SAC1L602	8,856	75														
SAC1L603	9,729	75														
SAC1L604	9,508	75														
SAC1L605	9,583	75														
SAC1L606	9,607	75														
SAC1L607	9,347	75														
SAC1L701	9,553	75														
SAC1L702	9,499	75														
SAC1L703	9,535	75														
SAC1L704	9,202	75														
SAC1L705	9,272	75														

SAC1L706	9,146	75
SAC1L801	9,001	75
SAC1L802	10,768	75
SAC1L803	10,960	75
SAC1L804	11,027	75
SACNL1	11,762	75
SACNL2	11,842	75
SAJ3L9	76	10
SAJ5L10	52,679	100
SATRPL1	4,605	40
SATRPL2	13,529	75
SATRSL1	2,187	40
SATRSL2	648	30
SAXXL2	3,023	40
STJ5L1	3,983	50
STSENL1	6,313	50
STSENL2	14,727	75
STSENL3	154	15
STSENL4	759	30
STSSL1	1,218	35
STSSL2	1225	35
MFG TOTAL	535,882	3,800

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(5) First failed separated lot. EXAMPLE *SA-J3-L2-1
*SA-J3-L2-2

SSTP REPORTING FORM PSC 113.0919 (3) — PUBLIC SERVICE COMMISSION OF WISCONSIN
ELECTRIC METER SSTP PSC 113.0921

UTILITY: WISCONSIN ELECTRIC POWER COMPANY — 2012

SAMPLE TESTING DATA

GROUP	TOTAL METER	METERS SAMPLE	FULL LOAD TESTING SAMPLE							LIGHT LOAD TESTING SAMPLE						
MFG-TYPE-LOT	LOT	TESTED	$\bar{X}$	S	P	M	$\Delta\bar{X}$	ΔS	ΔP	$\bar{X}$	S	P	M	$\Delta\bar{X}$	ΔS	ΔP
WED4L12	63	7														
WEXXL1	5,360	50														
MFG TOTAL	5,423	57														
COMPANY TOTAL	1,153,627															
MICHIGAN TOTAL	28,670															
WISCONSIN TOTAL	1,124,957															

NOTE:

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(5) First failed separated lot. EXAMPLE *SA-J3-L2-1
*SA-J3-L2-2

LOT DESCRIPTION DOC

SSTP GROUP	MANUFACTURER	MODEL
GE210L010100	General Electric	I210
GE210L010200	General Electric	I210
GE210L010300	General Electric	I210
GE210L020100	General Electric	I210
GE210L020200	General Electric	I210
GE210L020300	General Electric	I210
GE210L020400	General Electric	I210
GE210L020500	General Electric	I210
GE210L030100	General Electric	I210
GE210L030200	General Electric	I210
GE210L030300	General Electric	I210
GE210L030400	General Electric	I210
GE210L030500	General Electric	I210
GE210L030600	General Electric	I210
GE210L040100	General Electric	I210
GE210L040200	General Electric	I210
GE210L040300	General Electric	I210
GE210L040400	General Electric	I210
GE210L040500	General Electric	I210
GE210L040600	General Electric	I210
GE210L050000	General Electric	I210
GE21CL010000	General Electric	I210C
GEI70L230100	General Electric	I70
GEI70L230200	General Electric	I70
GEI70L230300	General Electric	I70
GEI70L240000	General Electric	I70
GETRPL010000	General Electric	EV and KV
GETRPL020000	General Electric	EV and KV
GETRSL010000	General Electric	EV and KV
GEXX L020000	General Electric	V62
GTI70L030000	General Electric	I70
GTSS L010000	General Electric	EV and KV
GTSS L020000	General Electric	EV and KV
GTSS L030000	General Electric	EV and KV
SSTP GROUP	**MANUFACTURER**	**MODEL**
LGFA L010000	Landis+Gyr/Duncan	ALFA
LGFA L020000	Landis+Gyr/Duncan	ALFA
LGFAXL010000	Landis+Gyr/Duncan	ALFA
LGFC L010000	Landis+Gyr/Duncan	ALFC
LGFC L020000	Landis+Gyr/Duncan	ALFC
LGFC L030000	Landis+Gyr/Duncan	ALFC
LGFC L040000	Landis+Gyr/Duncan	ALFC
LGFC L050000	Landis+Gyr/Duncan	ALFC
LGFC L060000	Landis+Gyr/Duncan	ALFC
LGFC L070000	Landis+Gyr/Duncan	ALFC
LGFCXL010000	Landis+Gyr/Duncan	ALFC

LGMS L120000	Landis+Gyr/Duncan	MS
LGMS L130000	Landis+Gyr/Duncan	MS
LGTRPL010000	Landis+Gyr/Duncan	DCRS2
LGTRPL020000	Landis+Gyr/Duncan	DCRS2 and M5S9
LGTRSL010000	Landis+Gyr/Duncan	ALFC
LGXX L020000	Landis+Gyr/Duncan	MTNS12S
LTMS L010000	Landis+Gyr/Duncan	MS
LTSS L010000	Landis+Gyr/Duncan	ALFC
SSTP GROUP	**MANUFACTURER**	**MODEL**
SAC1 L010100	Schlumberger/Sangamo	C1SC
SAC1 L010200	Schlumberger/Sangamo	C1SC
SAC1 L010300	Schlumberger/Sangamo	C1SC
SAC1 L010400	Schlumberger/Sangamo	C1SC
SAC1 L010500	Schlumberger/Sangamo	C1SC
SAC1 L020100	Schlumberger/Sangamo	C1SC
SAC1 L020200	Schlumberger/Sangamo	C1SC
SAC1 L020300	Schlumberger/Sangamo	C1SC
SAC1 L030100	Schlumberger/Sangamo	C1SC
SAC1 L030200	Schlumberger/Sangamo	C1SC
SAC1 L030300	Schlumberger/Sangamo	C1SC
SAC1 L030400	Schlumberger/Sangamo	C1SC
SAC1 L040100	Schlumberger/Sangamo	C1SC
SAC1 L040200	Schlumberger/Sangamo	C1SC
SAC1 L040300	Schlumberger/Sangamo	C1SC
SAC1 L040400	Schlumberger/Sangamo	C1SC
SAC1 L040500	Schlumberger/Sangamo	C1SC
SAC1 L040600	Schlumberger/Sangamo	C1SC
SAC1 L050100	Schlumberger/Sangamo	C1SC
SAC1 L050200	Schlumberger/Sangamo	C1SC
SAC1 L050300	Schlumberger/Sangamo	C1SC
SAC1 L050400	Schlumberger/Sangamo	C1SC
SAC1 L050500	Schlumberger/Sangamo	C1SC
SAC1 L050600	Schlumberger/Sangamo	C1SC
SAC1 L060100	Schlumberger/Sangamo	C1SC
SAC1 L060200	Schlumberger/Sangamo	C1SC
SAC1 L060300	Schlumberger/Sangamo	C1SC
SAC1 L060400	Schlumberger/Sangamo	C1SC
SAC1 L060500	Schlumberger/Sangamo	C1SC
SAC1 L060600	Schlumberger/Sangamo	C1SC
SAC1 L060700	Schlumberger/Sangamo	C1SC
SAC1 L070100	Schlumberger/Sangamo	C1SC
SAC1 L070200	Schlumberger/Sangamo	C1SC
SAC1 L070300	Schlumberger/Sangamo	C1SC
SAC1 L070400	Schlumberger/Sangamo	C1SC
SAC1 L070500	Schlumberger/Sangamo	C1SC
SAC1 L070600	Schlumberger/Sangamo	C1SC
SAC1 L080100	Schlumberger/Sangamo	C1SC
SAC1 L080200	Schlumberger/Sangamo	C1SC
SAC1 L080300	Schlumberger/Sangamo	C1SC
SAC1 L080400	Schlumberger/Sangamo	C1SC

SACN L010000	Schlumberger/Sangamo	CN1SC
SACN L020000	Schlumberger/Sangamo	CN1SC
SAJ3 L090000	Schlumberger/Sangamo	J3
SAJ5 L100000	Schlumberger/Sangamo	J5
SATRPL010000	Schlumberger/Sangamo	SS3S1L and SV3ST
SATRPL020000	Schlumberger/Sangamo	SS4S1L and SV4ST
SATRSL010000	Schlumberger/Sangamo	C1SC
SATRSL020000	Schlumberger/Sangamo	SS1S1L
SAXX L020000	Schlumberger/Sangamo	SL12S
STJ5 L010000	Schlumberger/Sangamo	J5
STSENL010000	Schlumberger/Sangamo	Sentinel
STSENL020000	Schlumberger/Sangamo	Sentinel
STSENL030000	Schlumberger/Sangamo	Sentinel
STSENL040000	Schlumberger/Sangamo	Sentinel
STSS L010000	Schlumberger/Sangamo	SVST
STSS L020000	Schlumberger/Sangamo	SVST
SSTP GROUP	**MANUFACTURER**	**MODEL**
WED4 L120000	ABB/Westinghouse	D4
WEXX L010000	ABB/Westinghouse	DS5U

UMENT

DESCRIPTION
Self Contained
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Self Contained
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Self Contained, Time Of Use
Self Contained
Self Contained
Self Contained
Self Contained
Polyphase, Transformer Rated
Polyphase, Transformer Rated
Single Phase, Tranformer Rated
Self Contained, Network
Self Contained, Time Of Use
Self Contained, Time Of Use, Solid State
Self Contained, Time Of Use, Solid State
Self Contained, Time Of Use, Solid State
DESCRIPTION
Self Contained
Self Contained
Self Contained, Network
Self Contained
Self Contained
Self Contained
Self Contained
Self Contained
Self Contained
Self Contained
Self Contained, Network

Self Contained
Self Contained, K-Base
Polyphase, Transformer Rated
Polyphase, Transformer Rated
Single Phase, Tranformer Rated
Self Contained, Network
Self Contained, Time Of Use
Single Phase, Tranformer Rated
DESCRIPTION
Self Contained
Self Contained
Self Contained

Self Contained, Network
Self Contained, Network
Self Contained
Self Contained
Polyphase, Transformer Rated
Polyphase, Transformer Rated
Single Phase, Tranformer Rated
Single Phase, Tranformer Rated
Self Contained, Network
Self Contained, Time Of Use, Solid State
Self Contained, Time Of Use, Solid State
Self Contained, Time Of Use, Solid State
Self Contained, Time Of Use, Solid State
Self Contained, Time Of Use, Solid State
Self Contained, Time Of Use, Solid State
Self Contained, Time Of Use, Solid State
DESCRIPTION
Self Contained
Self Contained, Network