UPPER MICHIGAN ENERGY RESOURCES

Upper Michigan Energy Resources Corporation
231 W. Michigan St.
Milwaukee, WI 53203

March 12, 2019

RECEIVED
MPSC
APR 01 2019

Ms. Kavita Kale
Executive Secretary
Michigan Public Service commission
P.O. Box 30221
Lansing, MI 48917

RE: Meter Test Summaries (R460.3617(2))

Dear Ms. Kale:

Enclosed are copies of the meter test summaries for We Energies meters in Michigan for the year ended December 31, 2018. The summary sheets have been prepared in accordance with the Michigan Rules (R460.3617(2)).

In addition, 2018 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,

Theodore T. Eidukas
Vice President
Regulatory Affairs

Attachments

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

PUBLIC SERVICE COMMISSION OF WISCONSIN

UTILITY: WISCONSIN ELECTRIC POWER COMPANY

2018

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	Δ P	$\bar{X}$	S	P	M	$\Delta\bar{X}$	Δ S	Δ P
GE210L101	7855	50	99.971	0.057	0.000	2.490	-0.007	-0.008	0.000	99.978	0.063	0.000	7.610	-0.012	-0.001	0.000
*GE210L102	7577	50	95.961	19.787	38.270	2.490	-4.029	19.714	8.270	95.966	19.788	38.270	7.610	-4.036	19.719	8.270
*GE210L10301	1406	40	99.950	0.066	0.000	2.710				99.955	0.066	0.000	8.090			
**GE210L10302	1403	40	94.992	22.070	37.900	2.710				94.989	22.069	37.900	8.090			
**GE210L10303	1415	40	94.960	22.062	37.900	2.710				94.961	22.063	37.900	8.090			
**GE210L10304	1398	40	97.484	15.808	42.130	2.710				97.487	15.809	42.130	8.090			
*GE210L201	7989	50	93.962	23.980	37.130	2.490	-6.008	23.900	7.130	93.973	23.983	37.130	7.610	-6.011	23.905	7.130
GE210L202	8717	75	99.939	0.089	0.000	2.290	-0.011	0.013	0.000	99.946	0.093	0.000	7.150	-0.013	0.019	0.000
GE210L203	8360	75	99.972	0.093	0.000	2.290	-0.027	0.020	0.000	99.974	0.096	0.000	7.150	-0.034	0.026	0.000
*GE210L204	7820	50	97.976	14.139	92.110	2.490	-2.014	14.067	2.110	97.979	14.139	92.110	7.610	-2.017	14.068	2.110
GE210L205	10451	75	99.934	0.114	0.000	2.290	-0.019	0.042	0.000	99.948	0.109	0.000	7.150	-0.018	0.031	0.000
GE210L301	9299	75	99.990	0.101	0.000	2.290	0.076	-0.367	0.000	100.002	0.107	0.000	7.150	0.077	-0.400	-0.003
GE210L302	9003	75	99.981	0.139	0.000	2.290	-0.023	-0.195	0.000	99.990	0.149	0.000	7.150	-0.021	-0.202	0.000
GE210L303	8917	75	100.012	0.095	0.000	2.290	0.001	-0.038	0.000	100.020	0.098	0.000	7.150	0.000	-0.039	0.000
GE210L304	8888	75	99.986	0.126	0.000	2.290	0.023	0.025	0.000	99.998	0.131	0.000	7.150	0.023	0.016	0.000
GE210L305	9000	75	99.963	0.110	0.000	2.290	0.014	0.039	0.000	99.969	0.108	0.000	7.150	0.015	0.038	0.000
GE210L306	8624	75	99.985	0.326	0.000	2.290	0.012	0.246	0.000	99.993	0.355	0.000	7.150	0.011	0.280	0.000
GE210L401	8868	75	99.931	0.314	0.000	2.290	-0.025	0.234	0.000	99.939	0.333	0.000	7.150	-0.033	0.253	0.000
GE210L402	8974	75	100.017	0.235	0.000	2.290	0.030	0.144	0.000	100.025	0.257	0.000	7.150	0.038	0.182	0.000
GE210L403	8918	75	100.016	0.097	0.000	2.290	0.012	0.022	0.000	100.021	0.098	0.000	7.150	0.009	0.019	0.000
GE210L404	8885	75	99.977	0.079	0.000	2.290	-0.004	-0.046	0.000	99.985	0.079	0.000	7.150	-0.005	-0.056	0.000
GE210L405	9005	75	99.960	0.064	0.000	2.290	-0.004	-0.011	0.000	99.970	0.061	0.000	7.150	-0.001	-0.018	0.000
GE210L406	9087	75	99.982	0.084	0.000	2.290	0.020	0.015	0.000	99.984	0.079	0.000	7.150	0.018	0.013	0.000
GE210L5	3315	50	99.958	0.087	0.000	2.490	-0.008	-0.001	0.000	99.969	0.088	0.000	7.610	-0.001	0.002	0.000
GE21CL1	10543	75	99.889	0.136	0.000	2.290	-0.042	0.004	0.000	99.856	0.066	0.000	7.150	-0.029	-0.013	0.000
GEI70L2301	4123	50	99.970	0.159	0.000	2.490	0.028	-0.013	0.000	99.846	0.440	0.000	7.610	0.123	0.117	0.000
GEI70L2302	4088	50	99.925	0.139	0.000	2.490	-0.034	-0.006	0.000	99.695	0.391	0.000	7.610	-0.045	0.124	0.000
GEI70L2303	3905	50	99.892	0.158	0.000	2.490	-0.036	-0.014	0.000	99.726	0.541	0.040	7.610	-0.094	0.241	0.040
GEI70L24	13167	75	99.977	0.179	0.000	2.290	0.053	0.005	0.000	99.884	0.373	0.000	7.150	0.148	0.011	0.000
GEKV2L1	131	15	99.932	0.154	0.000	3.050	-0.026	0.034	0.000	99.922	0.047	0.000	9.460	-0.018	-0.009	0.000
GEKV2L2	438	25	99.970	0.092	0.000	2.860	0.014	-0.006	0.000	99.933	0.044	0.000	8.630	-0.009	0.005	0.000
GEKV2L3	2444	40	99.990	0.184	0.000	2.710	0.060	0.065	0.000	100.143	0.117	0.000	8.090	-0.011	0.037	0.000
GEKV2L4	1708	40	100.021	0.090	0.000	2.710	0.042	-0.019	0.000	100.024	0.056	0.000	8.090	0.047	0.011	0.000
GEKV2L5	267	20	99.970	0.066	0.000	2.950	0.081	-0.022	0.000	99.965	0.049	0.000	8.920	0.041	0.012	0.000

GETRPL1	1833	40	99.893	0.089	0.000	2.710	-0.002	0.016	0.000	99.947	0.103	0.000	8.090	-0.037	-0.022	0.000
GETRSL1	3105	40	99.758	0.198	0.000	2.710	-0.145	0.056	0.000	99.784	0.187	0.000	8.090	-0.132	0.044	0.000
GEXXL02	1669	40	100.071	0.180	0.000	2.710	-0.047	-0.018	0.000	99.960	0.349	0.000	8.090	-0.017	-0.082	0.000
GTSSL1	90	10	99.917	0.023	0.000	3.260	-0.016	-0.093	0.000	99.906	0.032	0.000	0.540	-0.003	-0.013	0.000
GTSSL2	1359	40	99.883	0.098	0.000	2.710	-0.022	-0.004	0.000	99.888	0.058	0.000	8.090	-0.009	0.014	0.000
GTSSL3	1555	40	99.895	0.043	0.000	2.710	0.024	-0.013	0.000	99.929	0.088	0.000	8.090	0.035	0.052	0.000
MFG TOTAL	225,599	2,185														

NOTE:

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Example: $\Delta\bar{X}$= $\bar{X}$ of 2009 - $\bar{X}$ 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 2018

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
LGFAL1	11,221	75	99.937	0.081	0.000	2.290	0.000	0.010	0.000	99.932	0.067	0.000	7.150	-0.001	0.007	0.000
LGFAL2	177	15	99.946	0.071	0.000	3.050	-0.001	0.005	0.000	100.008	0.065	0.000	9.460	0.001	0.022	0.000
LGFAL3	6056	50	99.918	0.054	0.000	2.490	-0.015	-0.001	0.000	99.919	0.055	0.000	7.610	-0.005	0.011	0.000
LGFAL4	20956	75	99.968	0.055	0.000	2.290	-0.021	0.006	0.000	99.984	0.032	0.000	7.150	-0.013	0.002	0.000
LGFAXL1	5927	50	100.044	0.071	0.000	2.490	0.067	0.028	0.000	100.041	0.033	0.000	7.610	0.093	0.006	0.000
LGFAXL2	5905	50	100.031	0.075	0.000	2.490	0.043	-0.009	0.000	100.034	0.031	0.000	7.610	0.028	0.000	0.000
LGFAXL3	3489	50	99.998	0.057	0.000	2.490	0.004	0.007	0.000	99.966	0.034	0.000	7.610	-0.042	-0.009	0.000
LGFAXL4	2570	40	99.958	0.184	0.000	2.710	-0.028	0.096	0.000	99.923	0.054	0.000	8.090	-0.027	0.008	0.000
LGFAXL5	3484	50	100.022	0.043	0.000	2.490	0.023	-0.001	0.000	100.029	0.029	0.000	7.610	0.021	0.003	0.000
LGFAXL6	7158	50	99.975	0.043	0.000	2.490	-0.020	-0.019	0.000	99.959	0.033	0.000	7.610	-0.054	0.000	0.000
LGFAXL7	4325	50	99.975	0.052	0.000	2.490	0.007	-0.001	0.000	99.951	0.038	0.000	7.610	-0.006	0.003	0.000
LGFAXL8	858	35	99.990	0.049	0.000	2.680	0.014	-0.002	0.000	99.992	0.032	0.000	8.100	0.003	0.005	0.000
LGFAXL9	991	35	99.974	0.038	0.000	2.680	0.001	-0.032	0.000	99.964	0.032	0.000	8.100	0.003	0.011	0.000
LGFAXL10	50	7	100.012	0.109	0.000	3.550	0.066	0.045	0.000	99.957	0.033	0.000	2.200	0.039	0.008	0.000
LGFAXL11	30566	100	99.991	0.053	0.000	2.200	0.010	0.005	0.000	100.017	0.032	0.000	6.910	0.016	0.001	0.000
LGFAXL12	40805	100	99.992	0.046	0.000	2.200	0.008	-0.002	0.000	100.016	0.038	0.000	6.910	0.005	0.009	0.000
LGFAXL13	36527	100	100.003	0.054	0.000	2.200	0.034	0.005	0.000	100.030	0.031	0.000	6.910	0.043	-0.007	0.000
LGFAXL14	41563	100	100.002	0.046	0.000	2.200	0.021	-0.016	0.000	100.025	0.033	0.000	6.910	0.014	-0.012	0.000
LGFAXL15	41100	100	99.985	0.045	0.000	2.200	-0.002	-0.005	0.000	100.014	0.029	0.000	6.910	0.018	-0.043	0.000
LGFAXL16	41259	100	99.992	0.048	0.000	2.200	-0.003	0.002	0.000	100.012	0.031	0.000	6.910	0.001	-0.038	0.000
LGFAXL17	10198	75	99.995	0.049	0.000	2.290	-0.014	-0.002	0.000	100.020	0.036	0.000	7.150	0.002	0.007	0.000
LGFAXL18	38916	100	99.996	0.052	0.000	2.200	0.015	0.005	0.000	100.013	0.035	0.000	6.910	0.023	-0.053	0.000
LGFAXL19	38273	100	99.985	0.052	0.000	2.200	0.041	-0.150	0.000	100.013	0.031	0.000	6.910	0.047	-0.162	0.000
LGFAXL20	38236	100	99.985	0.053	0.000	2.200	0.007	-0.006	0.000	100.017	0.034	0.000	6.910	0.020	0.002	0.000
LGFAXL21	33812	100	99.994	0.041	0.000	2.200	0.002	-0.008	0.000	100.018	0.027	0.000	6.910	0.016	0.000	0.000
LGFAXL22	21644	75	99.996	0.045	0.000	2.290	0.025	-0.004	0.000	100.027	0.028	0.000	7.150	0.032	0.000	0.000
LGFCL101	37222	100	99.951	0.073	0.000	2.200	0.000	-0.036	0.000	99.949	0.086	0.000	6.910	0.004	-0.014	0.000
LGFCL201	39833	100	99.934	0.087	0.000	2.200	-0.011	-0.220	0.000	99.942	0.085	0.000	6.910	-0.020	-0.206	0.000
LGFCL301	27527	100	99.945	0.084	0.000	2.200	0.037	0.014	0.000	99.923	0.072	0.000	6.910	0.009	0.007	0.000
LGFCL401	43029	100	99.928	0.080	0.000	2.200	-0.001	0.011	0.000	99.917	0.069	0.000	6.910	-0.001	0.009	0.000
LGFCL501	45240	100	99.933	0.060	0.000	2.200	0.009	-0.015	0.000	99.913	0.060	0.000	6.910	-0.001	-0.002	0.000
LGFCL601	41422	100	99.946	0.071	0.000	2.200	-0.019	0.019	0.000	99.971	0.051	0.000	6.910	-0.011	0.015	0.000

LGFCL7	2739	40	99.937	0.079	0.000	2.710	-0.003	0.007	0.000	99.950	0.049	0.000	8.090	0.014	-0.011	0.000
LGFCXL1	20033	75	99.929	0.068	0.000	2.290	0.047	0.000	0.000	99.936	0.059	0.000	7.150	0.010	-0.012	0.000
LGMSL12	12776	75	100.020	0.212	0.000	2.290	0.073	0.002	0.000	100.018	0.351	0.000	7.150	0.142	0.025	0.000
LGTRSL1	912	35	99.878	0.161	0.000	2.680	-0.044	-0.004	0.000	99.954	0.074	0.000	8.100	-0.015	-0.003	0.000
LGXXL2	154	15	100.074	0.152	0.000	3.050	0.018	-0.003	0.000	99.774	0.359	0.000	9.460	-0.036	0.032	0.000
MFG TOTAL	756,953	2,622														

NOTE:

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(3) * Designates lot failed once.

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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 **2018**

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	30101	100	100.096	0.197	0.000	2.200				100.014	0.101	0.000	6.910			
SAC1L2	26811	100	100.059	0.177	0.000	2.200				99.990	0.100	0.000	6.910			
SAC1L3	26483	100	100.047	0.160	0.000	2.200				99.972	0.105	0.000	6.910			
SAC1L4	20190	75	100.084	0.189	0.000	2.290				99.982	0.113	0.000	7.150			
SAC1L5	14273	75	100.057	0.173	0.000	2.290				99.940	0.113	0.000	7.150			
SAC1L6	6273	50	100.006	0.138	0.000	2.490				99.937	0.181	0.000	7.610			
SAC1L7	749	30	100.119	0.153	0.000	2.830				100.057	0.104	0.000	8.470			
SACNL1	22177	100	100.074	0.263	0.000	2.200	0.044	0.072	0.000	99.991	0.223	0.000	6.910	-0.008	0.042	0.000
SAJ5L10	15369	75	99.955	0.250	0.000	2.290	-0.028	0.001	0.000	100.015	0.320	0.000	7.150	0.107	-0.163	0.000
SATRPL1	2300	40	100.068	0.131	0.000	2.710	0.047	0.034	0.000	100.128	0.103	0.000	8.090	-0.085	0.002	0.000
SATRPL2	5574	50	100.031	0.047	0.000	2.490	-0.017	-0.032	0.000	100.031	0.023	0.000	7.610	0.007	0.000	0.000
SATRSL1	1648	40	100.326	0.149	0.000	2.710	-0.022	-0.013	0.000	100.181	0.157	0.000	8.090	-0.040	0.018	0.000
SATRSL2	1101	35	100.061	0.143	0.000	2.680	0.032	0.034	0.000	100.055	0.141	0.000	8.100	0.069	0.057	0.000
SAXXL2	2464	40	100.174	0.171	0.000	2.710	0.058	0.048	0.000	99.966	0.213	0.000	8.090	0.040	0.060	0.000
STSENL1	5300	50	100.074	0.062	0.000	2.490	-0.014	-0.006	0.000	100.081	0.043	0.000	7.610	0.020	-0.003	0.000
STSENL2	14051	75	100.073	0.038	0.000	2.290	0.007	0.001	0.000	100.068	0.029	0.000	7.150	0.002	-0.011	0.000
STSENL3	1098	35	100.032	0.057	0.000	2.680	-0.014	-0.024	0.000	100.038	0.029	0.000	8.100	0.015	-0.071	0.000
STSENL4	2168	40	100.038	0.078	0.000	2.710	-0.008	0.003	0.000	100.031	0.030	0.000	8.090	0.000	-0.004	0.000
STSENL5	64	7	99.985	0.045	0.000	3.550	-0.063	-0.023	0.000	100.024	0.020	0.000	2.200	0.004	-0.022	0.000
MFG TOTAL	198,194	1,117														

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*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 **2018**

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
WEXXL1	4,291	50	100.050	0.230	0.000	2.490	0.028	0.013	0.000	99.871	0.490	0.002	7.610	0.026	-0.039	-0.008
MFG TOTAL	4,291	50														
COMPANY TOTAL	1,185,037															
MICHIGAN TOTAL	29,093															
WISCONSIN TOTAL	1,155,944															

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*SA-J3-L2-2

2019 LOT DESCRIPTION DOCUMENT

SSTP GROUP	MANUFACTURER	MODEL	DESCRIPTION
GE210L010100	General Electric	I210	Self Contained
GE210L010200	General Electric	I210	Self Contained
GE210L010301	General Electric	I210	Self Contained
GE210L010302	General Electric	I210	Self Contained
GE210L010303	General Electric	I210	Self Contained
GE210L010304	General Electric	I210	Self Contained
GE210L020100	General Electric	I210	Self Contained
GE210L020200	General Electric	I210	Self Contained
GE210L020300	General Electric	I210	Self Contained
GE210L020400	General Electric	I210	Self Contained
GE210L020500	General Electric	I210	Self Contained
GE210L030100	General Electric	I210	Self Contained
GE210L030200	General Electric	I210	Self Contained
GE210L030300	General Electric	I210	Self Contained
GE210L030400	General Electric	I210	Self Contained
GE210L030500	General Electric	I210	Self Contained
GE210L030600	General Electric	I210	Self Contained
GE210L040100	General Electric	I210	Self Contained
GE210L040200	General Electric	I210	Self Contained
GE210L040300	General Electric	I210	Self Contained
GE210L040400	General Electric	I210	Self Contained
GE210L040500	General Electric	I210	Self Contained
GE210L040600	General Electric	I210	Self Contained
GE210L050000	General Electric	I210	Self Contained
GE21CL010000	General Electric	I210C	Self Contained, Time Of Use
GEI70L230100	General Electric	I70	Self Contained
GEI70L230200	General Electric	I70	Self Contained
GEI70L230300	General Electric	I70	Self Contained
GEI70L240000	General Electric	I70	Self Contained
GEKV2L010000	General Electric	KV2C	Self Contained
GEKV2L020000	General Electric	KV2C	Self Contained
GEKV2L030000	General Electric	KV2C	Transformer Rated
GEKV2L040000	General Electric	KV2C	Self Contained
GEKV2L050000	General Electric	KV2C	Transformer Rated
GETRPL010000	General Electric	EV and KV	Polyphase, Transformer Rated
GETRSL010000	General Electric	EV and KV	Single Phase, Tranformer Rated
GEXX L020000	General Electric	V62	Self Contained, Network
GTSS L010000	General Electric	EV and KV	Self Contained, Time Of Use, Solid State
GTSS L020000	General Electric	EV and KV	Self Contained, Time Of Use, Solid State
GTSS L030000	General Electric	EV and KV	Self Contained, Time Of Use, Solid State
SSTP GROUP	**MANUFACTURER**	**MODEL**	**DESCRIPTION**
LGFA L010000	Landis+Gyr	ALFA	Self Contained
LGFA L020000	Landis+Gyr	ALFA	Self Contained
LGFA L030000	Landis+Gyr	ALFA	Self Contained
LGFA L040000	Landis+Gyr	ALFA	Self Contained
LGFAXL010000	Landis+Gyr	FOCUSAX	Transformer Rated
LGFAXL020000	Landis+Gyr	FOCUSAX	Transformer Rated
LGFAXL030000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL040000	Landis+Gyr	FOCUSAX	Transformer Rated
LGFAXL050000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL060000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL070000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL080000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL090000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL100000	Landis+Gyr	FOCUSAX	Transformer Rated
LGFAXL110000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL120000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL130000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL140000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL150000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL160000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL170000	Landis+Gyr	FOCUSAX	Self Contained

LGFAXL180000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL190000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL200000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL210000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL220000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL230000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL240000	Landis+Gyr	FOCUSAX	Self Contained
LGFC L010100	Landis+Gyr	ALFC	Self Contained
LGFC L020100	Landis+Gyr	ALFC	Self Contained
LGFC L030100	Landis+Gyr	ALFC	Self Contained
LGFC L040100	Landis+Gyr	ALFC	Self Contained
LGFC L050100	Landis+Gyr	ALFC	Self Contained
LGFC L060100	Landis+Gyr	ALFC	Self Contained
LGFC L070000	Landis+Gyr	ALF and ALFC	Self Contained
LGFCXL010000	Landis+Gyr	ALFC	Self Contained, Network
LGMS L120000	Landis+Gyr/Duncan	MS	Self Contained
LGTRSL010000	Landis+Gyr	ALFC	Single Phase, Tranformer Rated
LGXX L020000	Landis+Gyr/Duncan	MTNS12S	Self Contained, Network
SSTP GROUP	**MANUFACTURER**	**MODEL**	**DESCRIPTION**
SAC1 L010000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L020000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L030000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L040000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L050000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L060000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L070000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SACN L010000	Itron/Schlumberger/Sangamo	CN1SC	Self Contained, Network
SAJ5 L100000	Sangamo	J5	Self Contained
SATRPL010000	Itron/Schlumberger/Sangamo	SS3S1L and SV3ST	Polyphase, Transformer Rated
SATRPL020000	Itron/Schlumberger/Sangamo	SS4S1L and SV4ST	Polyphase, Transformer Rated
SATRSL010000	Itron/Schlumberger/Sangamo	C1SC	Single Phase, Tranformer Rated
SATRSL020000	Itron/Schlumberger/Sangamo	SS1S1L	Single Phase, Tranformer Rated
SAXX L020000	Itron/Schlumberger/Sangamo	S12S and SL12S	Self Contained, Network
STSENL010000	Itron/Schlumberger/Sangamo	SS2S1L	Self Contained
STSENL020000	Itron/Schlumberger/Sangamo	SS4S1L	Self Contained
STSENL030000	Itron/Schlumberger/Sangamo	SS1S1L	Self Contained
STSENL040000	Itron/Schlumberger/Sangamo	SS1S1L	Self Contained
STSENL050000	Itron/Schlumberger/Sangamo	SS1S1L	Self Contained
SSTP GROUP	**MANUFACTURER**	**MODEL**	**DESCRIPTION**
WEXX L010000	ABB/Westinghouse	DS5U	Self Contained, Network

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

UTILITY: WISCONSIN ELECTRIC POWER COMPANY 2019

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	7356	50														
*GE210L102	6965	50														
*GE210L10301	1261	35														
**GE210L10302	1213	35														
**GE210L10303	1272	35														
**GE210L10304	1235	35														
*GE210L201	7544	50														
GE210L202	8419	75														
GE210L203	7980	50														
*GE210L204	7448	50														
GE210L205	10004	75														
GE210L301	9088	75														
GE210L302	8818	75														
GE210L303	8762	75														
GE210L304	8737	75														
GE210L305	8841	75														
GE210L306	8474	75														
GE210L401	8672	75														
GE210L402	8765	75														
GE210L403	8768	75														
GE210L404	8727	75														
GE210L405	8832	75														
GE210L406	8951	75														
GE210L5	3233	50														
GE21CL1	10395	75														
GEI70L2301	102	10														
GEI70L2302	97	10														
GEI70L2303	477	25														
GEI70L24	569	30														
GEKV2L1	132	15														
GEKV2L2	464	25														
GEKV2L3	2660	40														
GEKV2L4	1849	40														
GEKV2L5	288	20														

GETRPL1	1776	40															
GETRSL1	3079	40															
GEXXL02	1595	40															
GTSSL1	84	10															
GTSSL2	1325	40															
GTSSL3	1462	40															
MFG TOTAL	195,719	1,990															

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 2019

SAMPLE TESTING DATA

GROUP	TOTAL METER LOT	METERS SAMPLE TESTED	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
LGFAL1	11231	75														
LGFAL2	173	15														
LGFAL3	6137	50														
LGFAL4	28229	100														
LGFAXL1	5926	50														
LGFAXL2	6231	50														
LGFAXL3	3380	50														
LGFAXL4	2741	40														
LGFAXL5	4167	50														
LGFAXL6	7141	50														
LGFAXL7	5586	50														
LGFAXL8	796	30														
LGFAXL9	1225	35														
LGFAXL10	51	7														
LGFAXL11	30383	100														
LGFAXL12	40487	100														
LGFAXL13	36439	100														
LGFAXL14	41600	100														
LGFAXL15	40999	100														
LGFAXL16	41194	100														
LGFAXL17	10301	75														
LGFAXL18	39597	100														
LGFAXL19	39425	100														
LGFAXL20	39600	100														
LGFAXL21	35233	100														
LGFAXL22	39040	100														
LGFAXL23	11822	75														
LGFAXL24	293	20														
LGFCL101	33788	100														
LGFCL201	36608	100														
LGFCL301	24859	100														
LGFCL401	38289	100														
LGFCL501	41537	100														
LGFCL601	35406	100														

LGFCL7	2644	40																
LGFCXL1	19802	75																
LGMSL12	206	20																
LGTRSL1	857	35																
LGXXL2	134	15																
MFG TOTAL	763,557	2,707																

NOTE:

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(3) * Designates lot failed once.

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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 **2019**

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
SAC1L1	506	30														
SAC1L2	421	25														
SAC1L3	487	25														
SAC1L4	354	25														
SAC1L5	1562	40														
SAC1L6	5953	50														
SAC1L7	706	30														
SACNL1	21955	75														
SAJ5L10	491	25														
SATRPL1	2168	40														
SATRPL2	5506	50														
SATRSL1	1571	40														
SATRSL2	1109	35														
SAXXL2	2378	40														
STSENL1	5046	50														
STSENL2	13872	75														
STSENL3	1032	35														
STSENL4	1956	40														
STSENL5	68	10														
MFG TOTAL	67,141	740														

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 **2019**

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
WEXXL1	4,148	50														
MFG TOTAL	4,148	50														
COMPANY TOTAL	1,030,565															
MICHIGAN TOTAL	29,170															
WISCONSIN TOTAL	1,001,395															

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

We Energies
231 W. Michigan Street
Milwaukee, WI 53203

www.we-energies.com

March 12, 2019

Ms. Steffany Powell Coker
Commission Secretary
Public Service Commission of Wisconsin
P.O. Box 7854
Madison, Wisconsin 53707-7854

Dear Ms. Powell Coker:

Re: meter testing reports PSC 113.0919(3) and 113.0921 – 5-GF-113

Enclosed for filing are the following reports required in WI Admin. Code PSC 113.0919(3) metering equipment records and PSC 113.0921 sample testing.

Attachment 1 is the meter test results for the 2018 in-service sample testing plan for electronic (solid state) meters, electro-mechanical self-contained single phase meters and 3-wire network meters.

Attachment 2 is the 2018 rejected lot forms, submitted for all failed meter groups that did not pass the in-service plan in any two test years.

Attachment 3 is the list of lot designations for Wisconsin electronic (solid state) meters, and electro-mechanical self-contained single phase and 3-wire network meters to be tested in 2019 in accordance with the in-service statistical sample testing plan.

Attachment 4 is the lot description document.

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

Sincerely,

Theodore Eidukas
Vice President
Regulatory Affairs

Attachments

2018 Rejected Lot Report

Lot GE210L103 failed for the first time in 2017.

This lot was broken down into four new lots in 2018.
GE210L10301
GE210L10302
GE210L10303
GE210L10304

Three of these four lots failed in 2018.
GE210L10302
GE210L10303
GE210L10304

We will begin providing statistics in the year following a second failure (2019).

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

UTILITY: WISCONSIN ELECTRIC POWER COMPANY 2018

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
GE210L101	7855	50	99.971	0.057	0.000	2.490	-0.007	-0.008	0.000	99.978	0.063	0.000	7.610	-0.012	-0.001	0.000
*GE210L102	7577	50	95.961	19.787	38.270	2.490	-4.029	19.714	8.270	95.966	19.788	38.270	7.610	-4.036	19.719	8.270
*GE210L10301	1406	40	99.950	0.066	0.000	2.710				99.955	0.066	0.000	8.090			
**GE210L10302	1403	40	94.992	22.070	37.900	2.710				94.989	22.069	37.900	8.090			
**GE210L10303	1415	40	94.960	22.062	37.900	2.710				94.961	22.063	37.900	8.090			
**GE210L10304	1398	40	97.484	15.808	42.130	2.710				97.487	15.809	42.130	8.090			
*GE210L201	7989	50	93.962	23.980	37.130	2.490	-6.008	23.900	7.130	93.973	23.983	37.130	7.610	-6.011	23.905	7.130
GE210L202	8717	75	99.939	0.089	0.000	2.290	-0.011	0.013	0.000	99.946	0.093	0.000	7.150	-0.013	0.019	0.000
GE210L203	8360	75	99.972	0.093	0.000	2.290	-0.027	0.020	0.000	99.974	0.096	0.000	7.150	-0.034	0.026	0.000
*GE210L204	7820	50	97.976	14.139	92.110	2.490	-2.014	14.067	2.110	97.979	14.139	92.110	7.610	-2.017	14.068	2.110
GE210L205	10451	75	99.934	0.114	0.000	2.290	-0.019	0.042	0.000	99.948	0.109	0.000	7.150	-0.018	0.031	0.000
GE210L301	9299	75	99.990	0.101	0.000	2.290	0.076	-0.367	0.000	100.002	0.107	0.000	7.150	0.077	-0.400	-0.003
GE210L302	9003	75	99.981	0.139	0.000	2.290	-0.023	-0.195	0.000	99.990	0.149	0.000	7.150	-0.021	-0.202	0.000
GE210L303	8917	75	100.012	0.095	0.000	2.290	0.001	-0.038	0.000	100.020	0.098	0.000	7.150	0.000	-0.039	0.000
GE210L304	8888	75	99.986	0.126	0.000	2.290	0.023	0.025	0.000	99.998	0.131	0.000	7.150	0.023	0.016	0.000
GE210L305	9000	75	99.963	0.110	0.000	2.290	0.014	0.039	0.000	99.969	0.108	0.000	7.150	0.015	0.038	0.000
GE210L306	8624	75	99.985	0.326	0.000	2.290	0.012	0.246	0.000	99.993	0.355	0.000	7.150	0.011	0.280	0.000
GE210L401	8868	75	99.931	0.314	0.000	2.290	-0.025	0.234	0.000	99.939	0.333	0.000	7.150	-0.033	0.253	0.000
GE210L402	8974	75	100.017	0.235	0.000	2.290	0.030	0.144	0.000	100.025	0.257	0.000	7.150	0.038	0.182	0.000
GE210L403	8918	75	100.016	0.097	0.000	2.290	0.012	0.022	0.000	100.021	0.098	0.000	7.150	0.009	0.019	0.000
GE210L404	8885	75	99.977	0.079	0.000	2.290	-0.004	-0.046	0.000	99.985	0.079	0.000	7.150	-0.005	-0.056	0.000
GE210L405	9005	75	99.960	0.064	0.000	2.290	-0.004	-0.011	0.000	99.970	0.061	0.000	7.150	-0.001	-0.018	0.000
GE210L406	9087	75	99.982	0.084	0.000	2.290	0.020	0.015	0.000	99.984	0.079	0.000	7.150	0.018	0.013	0.000
GE210L5	3315	50	99.958	0.087	0.000	2.490	-0.008	-0.001	0.000	99.969	0.088	0.000	7.610	-0.001	0.002	0.000
GE21CL1	10543	75	99.889	0.136	0.000	2.290	-0.042	0.004	0.000	99.856	0.066	0.000	7.150	-0.029	-0.013	0.000
GEI70L2301	4123	50	99.970	0.159	0.000	2.490	0.028	-0.013	0.000	99.846	0.440	0.000	7.610	0.123	0.117	0.000
GEI70L2302	4088	50	99.925	0.139	0.000	2.490	-0.034	-0.006	0.000	99.695	0.391	0.000	7.610	-0.045	0.124	0.000
GEI70L2303	3905	50	99.892	0.158	0.000	2.490	-0.036	-0.014	0.000	99.726	0.541	0.040	7.610	-0.094	0.241	0.040
GEI70L24	13167	75	99.977	0.179	0.000	2.290	0.053	0.005	0.000	99.884	0.373	0.000	7.150	0.148	0.011	0.000
GEKV2L1	131	15	99.932	0.154	0.000	3.050	-0.026	0.034	0.000	99.922	0.047	0.000	9.460	-0.018	-0.009	0.000
GEKV2L2	438	25	99.970	0.092	0.000	2.860	0.014	-0.006	0.000	99.933	0.044	0.000	8.630	-0.009	0.005	0.000
GEKV2L3	2444	40	99.990	0.184	0.000	2.710	0.060	0.065	0.000	100.143	0.117	0.000	8.090	-0.011	0.037	0.000
GEKV2L4	1708	40	100.021	0.090	0.000	2.710	0.042	-0.019	0.000	100.024	0.056	0.000	8.090	0.047	0.011	0.000
GEKV2L5	267	20	99.970	0.066	0.000	2.950	0.081	-0.022	0.000	99.965	0.049	0.000	8.920	0.041	0.012	0.000

GETRPL1	1833	40	99.893	0.089	0.000	2.710	-0.002	0.016	0.000	99.947	0.103	0.000	8.090	-0.037	-0.022	0.000
GETRSL1	3105	40	99.758	0.198	0.000	2.710	-0.145	0.056	0.000	99.784	0.187	0.000	8.090	-0.132	0.044	0.000
GEXXL02	1669	40	100.071	0.180	0.000	2.710	-0.047	-0.018	0.000	99.960	0.349	0.000	8.090	-0.017	-0.082	0.000
GTSSL1	90	10	99.917	0.023	0.000	3.260	-0.016	-0.093	0.000	99.906	0.032	0.000	0.540	-0.003	-0.013	0.000
GTSSL2	1359	40	99.883	0.098	0.000	2.710	-0.022	-0.004	0.000	99.888	0.058	0.000	8.090	-0.009	0.014	0.000
GTSSL3	1555	40	99.895	0.043	0.000	2.710	0.024	-0.013	0.000	99.929	0.088	0.000	8.090	0.035	0.052	0.000
MFG TOTAL	225,599	2,185														

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 2018

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	11,221	75	99.937	0.081	0.000	2.290	0.000	0.010	0.000	99.932	0.067	0.000	7.150	-0.001	0.007	0.000
LGFAL2	177	15	99.946	0.071	0.000	3.050	-0.001	0.005	0.000	100.008	0.065	0.000	9.460	0.001	0.022	0.000
LGFAL3	6056	50	99.918	0.054	0.000	2.490	-0.015	-0.001	0.000	99.919	0.055	0.000	7.610	-0.005	0.011	0.000
LGFAL4	20956	75	99.968	0.055	0.000	2.290	-0.021	0.006	0.000	99.984	0.032	0.000	7.150	-0.013	0.002	0.000
LGFAXL1	5927	50	100.044	0.071	0.000	2.490	0.067	0.028	0.000	100.041	0.033	0.000	7.610	0.093	0.006	0.000
LGFAXL2	5905	50	100.031	0.075	0.000	2.490	0.043	-0.009	0.000	100.034	0.031	0.000	7.610	0.028	0.000	0.000
LGFAXL3	3489	50	99.998	0.057	0.000	2.490	0.004	0.007	0.000	99.966	0.034	0.000	7.610	-0.042	-0.009	0.000
LGFAXL4	2570	40	99.958	0.184	0.000	2.710	-0.028	0.096	0.000	99.923	0.054	0.000	8.090	-0.027	0.008	0.000
LGFAXL5	3484	50	100.022	0.043	0.000	2.490	0.023	-0.001	0.000	100.029	0.029	0.000	7.610	0.021	0.003	0.000
LGFAXL6	7158	50	99.975	0.043	0.000	2.490	-0.020	-0.019	0.000	99.959	0.033	0.000	7.610	-0.054	0.000	0.000
LGFAXL7	4325	50	99.975	0.052	0.000	2.490	0.007	-0.001	0.000	99.951	0.038	0.000	7.610	-0.006	0.003	0.000
LGFAXL8	858	35	99.990	0.049	0.000	2.680	0.014	-0.002	0.000	99.992	0.032	0.000	8.100	0.003	0.005	0.000
LGFAXL9	991	35	99.974	0.038	0.000	2.680	0.001	-0.032	0.000	99.964	0.032	0.000	8.100	0.003	0.011	0.000
LGFAXL10	50	7	100.012	0.109	0.000	3.550	0.066	0.045	0.000	99.957	0.033	0.000	2.200	0.039	0.008	0.000
LGFAXL11	30566	100	99.991	0.053	0.000	2.200	0.010	0.005	0.000	100.017	0.032	0.000	6.910	0.016	0.001	0.000
LGFAXL12	40805	100	99.992	0.046	0.000	2.200	0.008	-0.002	0.000	100.016	0.038	0.000	6.910	0.005	0.009	0.000
LGFAXL13	36527	100	100.003	0.054	0.000	2.200	0.034	0.005	0.000	100.030	0.031	0.000	6.910	0.043	-0.007	0.000
LGFAXL14	41563	100	100.002	0.046	0.000	2.200	0.021	-0.016	0.000	100.025	0.033	0.000	6.910	0.014	-0.012	0.000
LGFAXL15	41100	100	99.985	0.045	0.000	2.200	-0.002	-0.005	0.000	100.014	0.029	0.000	6.910	0.018	-0.043	0.000
LGFAXL16	41259	100	99.992	0.048	0.000	2.200	-0.003	0.002	0.000	100.012	0.031	0.000	6.910	0.001	-0.038	0.000
LGFAXL17	10198	75	99.995	0.049	0.000	2.290	-0.014	-0.002	0.000	100.020	0.036	0.000	7.150	0.002	0.007	0.000
LGFAXL18	38916	100	99.996	0.052	0.000	2.200	0.015	0.005	0.000	100.013	0.035	0.000	6.910	0.023	-0.053	0.000
LGFAXL19	38273	100	99.985	0.052	0.000	2.200	0.041	-0.150	0.000	100.013	0.031	0.000	6.910	0.047	-0.162	0.000
LGFAXL20	38236	100	99.985	0.053	0.000	2.200	0.007	-0.006	0.000	100.017	0.034	0.000	6.910	0.020	0.002	0.000
LGFAXL21	33812	100	99.994	0.041	0.000	2.200	0.002	-0.008	0.000	100.018	0.027	0.000	6.910	0.016	0.000	0.000
LGFAXL22	21644	75	99.996	0.045	0.000	2.290	0.025	-0.004	0.000	100.027	0.028	0.000	7.150	0.032	0.000	0.000
LGFCL101	37222	100	99.951	0.073	0.000	2.200	0.000	-0.036	0.000	99.949	0.086	0.000	6.910	0.004	-0.014	0.000
LGFCL201	39833	100	99.934	0.087	0.000	2.200	-0.011	-0.220	0.000	99.942	0.085	0.000	6.910	-0.020	-0.206	0.000
LGFCL301	27527	100	99.945	0.084	0.000	2.200	0.037	0.014	0.000	99.923	0.072	0.000	6.910	0.009	0.007	0.000
LGFCL401	43029	100	99.928	0.080	0.000	2.200	-0.001	0.011	0.000	99.917	0.069	0.000	6.910	-0.001	0.009	0.000
LGFCL501	45240	100	99.933	0.060	0.000	2.200	0.009	-0.015	0.000	99.913	0.060	0.000	6.910	-0.001	-0.002	0.000
LGFCL601	41422	100	99.946	0.071	0.000	2.200	-0.019	0.019	0.000	99.971	0.051	0.000	6.910	-0.011	0.015	0.000

LGFCL7	2739	40	99.937	0.079	0.000	2.710	-0.003	0.007	0.000	99.950	0.049	0.000	8.090	0.014	-0.011	0.000
LGFCXL1	20033	75	99.929	0.068	0.000	2.290	0.047	0.000	0.000	99.936	0.059	0.000	7.150	0.010	-0.012	0.000
LGMSL12	12776	75	100.020	0.212	0.000	2.290	0.073	0.002	0.000	100.018	0.351	0.000	7.150	0.142	0.025	0.000
LGTRSL1	912	35	99.878	0.161	0.000	2.680	-0.044	-0.004	0.000	99.954	0.074	0.000	8.100	-0.015	-0.003	0.000
LGXXL2	154	15	100.074	0.152	0.000	3.050	0.018	-0.003	0.000	99.774	0.359	0.000	9.460	-0.036	0.032	0.000
MFG TOTAL	756,953	2,622														

NOTE:

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(3) * Designates lot failed once.

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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 2018

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	Δ P	$\overline{X}$	S	P	M	$\Delta\overline{X}$	Δ S	Δ P
SAC1L1	30101	100	100.096	0.197	0.000	2.200				100.014	0.101	0.000	6.910			
SAC1L2	26811	100	100.059	0.177	0.000	2.200				99.990	0.100	0.000	6.910			
SAC1L3	26483	100	100.047	0.160	0.000	2.200				99.972	0.105	0.000	6.910			
SAC1L4	20190	75	100.084	0.189	0.000	2.290				99.982	0.113	0.000	7.150			
SAC1L5	14273	75	100.057	0.173	0.000	2.290				99.940	0.113	0.000	7.150			
SAC1L6	6273	50	100.006	0.138	0.000	2.490				99.937	0.181	0.000	7.610			
SAC1L7	749	30	100.119	0.153	0.000	2.830				100.057	0.104	0.000	8.470			
SACNL1	22177	100	100.074	0.263	0.000	2.200	0.044	0.072	0.000	99.991	0.223	0.000	6.910	-0.008	0.042	0.000
SAJ5L10	15369	75	99.955	0.250	0.000	2.290	-0.028	0.001	0.000	100.015	0.320	0.000	7.150	0.107	-0.163	0.000
SATRPL1	2300	40	100.068	0.131	0.000	2.710	0.047	0.034	0.000	100.128	0.103	0.000	8.090	-0.085	0.002	0.000
SATRPL2	5574	50	100.031	0.047	0.000	2.490	-0.017	-0.032	0.000	100.031	0.023	0.000	7.610	0.007	0.000	0.000
SATRSL1	1648	40	100.326	0.149	0.000	2.710	-0.022	-0.013	0.000	100.181	0.157	0.000	8.090	-0.040	0.018	0.000
SATRSL2	1101	35	100.061	0.143	0.000	2.680	0.032	0.034	0.000	100.055	0.141	0.000	8.100	0.069	0.057	0.000
SAXXL2	2464	40	100.174	0.171	0.000	2.710	0.058	0.048	0.000	99.966	0.213	0.000	8.090	0.040	0.060	0.000
STSENL1	5300	50	100.074	0.062	0.000	2.490	-0.014	-0.006	0.000	100.081	0.043	0.000	7.610	0.020	-0.003	0.000
STSENL2	14051	75	100.073	0.038	0.000	2.290	0.007	0.001	0.000	100.068	0.029	0.000	7.150	0.002	-0.011	0.000
STSENL3	1098	35	100.032	0.057	0.000	2.680	-0.014	-0.024	0.000	100.038	0.029	0.000	8.100	0.015	-0.071	0.000
STSENL4	2168	40	100.038	0.078	0.000	2.710	-0.008	0.003	0.000	100.031	0.030	0.000	8.090	0.000	-0.004	0.000
STSENL5	64	7	99.985	0.045	0.000	3.550	-0.063	-0.023	0.000	100.024	0.020	0.000	2.200	0.004	-0.022	0.000
MFG TOTAL	198,194	1,117														

NOTE:

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(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 2018

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	Δ P	$\overline{X}$	S	P	M	$\Delta\overline{X}$	Δ S	Δ P
WEXXL1	4,291	50	100.050	0.230	0.000	2.490	0.028	0.013	0.000	99.871	0.490	0.002	7.610	0.026	-0.039	-0.008
MFG TOTAL	4,291	50														
COMPANY TOTAL	1,185,037															
MICHIGAN TOTAL	29,093															
WISCONSIN TOTAL	1,155,944															

NOTE:

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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

2019 LOT DESCRIPTION DOCUMENT

SSTP GROUP	MANUFACTURER	MODEL	DESCRIPTION
GE210L010100	General Electric	I210	Self Contained
GE210L010200	General Electric	I210	Self Contained
GE210L010301	General Electric	I210	Self Contained
GE210L010302	General Electric	I210	Self Contained
GE210L010303	General Electric	I210	Self Contained
GE210L010304	General Electric	I210	Self Contained
GE210L020100	General Electric	I210	Self Contained
GE210L020200	General Electric	I210	Self Contained
GE210L020300	General Electric	I210	Self Contained
GE210L020400	General Electric	I210	Self Contained
GE210L020500	General Electric	I210	Self Contained
GE210L030100	General Electric	I210	Self Contained
GE210L030200	General Electric	I210	Self Contained
GE210L030300	General Electric	I210	Self Contained
GE210L030400	General Electric	I210	Self Contained
GE210L030500	General Electric	I210	Self Contained
GE210L030600	General Electric	I210	Self Contained
GE210L040100	General Electric	I210	Self Contained
GE210L040200	General Electric	I210	Self Contained
GE210L040300	General Electric	I210	Self Contained
GE210L040400	General Electric	I210	Self Contained
GE210L040500	General Electric	I210	Self Contained
GE210L040600	General Electric	I210	Self Contained
GE210L050000	General Electric	I210	Self Contained
GE21CL010000	General Electric	I210C	Self Contained, Time Of Use
GEI70L230100	General Electric	I70	Self Contained
GEI70L230200	General Electric	I70	Self Contained
GEI70L230300	General Electric	I70	Self Contained
GEI70L240000	General Electric	I70	Self Contained
GEKV2L010000	General Electric	KV2C	Self Contained
GEKV2L020000	General Electric	KV2C	Self Contained
GEKV2L030000	General Electric	KV2C	Transformer Rated
GEKV2L040000	General Electric	KV2C	Self Contained
GEKV2L050000	General Electric	KV2C	Transformer Rated
GETRPL010000	General Electric	EV and KV	Polyphase, Transformer Rated
GETRSL010000	General Electric	EV and KV	Single Phase, Tranformer Rated
GEXX L020000	General Electric	V62	Self Contained, Network
GTSS L010000	General Electric	EV and KV	Self Contained, Time Of Use, Solid State
GTSS L020000	General Electric	EV and KV	Self Contained, Time Of Use, Solid State
GTSS L030000	General Electric	EV and KV	Self Contained, Time Of Use, Solid State
SSTP GROUP	**MANUFACTURER**	**MODEL**	**DESCRIPTION**
LGFA L010000	Landis+Gyr	ALFA	Self Contained
LGFA L020000	Landis+Gyr	ALFA	Self Contained
LGFA L030000	Landis+Gyr	ALFA	Self Contained
LGFA L040000	Landis+Gyr	ALFA	Self Contained
LGFAXL010000	Landis+Gyr	FOCUSAX	Transformer Rated
LGFAXL020000	Landis+Gyr	FOCUSAX	Transformer Rated
LGFAXL030000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL040000	Landis+Gyr	FOCUSAX	Transformer Rated
LGFAXL050000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL060000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL070000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL080000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL090000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL100000	Landis+Gyr	FOCUSAX	Transformer Rated
LGFAXL110000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL120000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL130000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL140000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL150000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL160000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL170000	Landis+Gyr	FOCUSAX	Self Contained

LGFAXL180000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL190000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL200000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL210000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL220000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL230000	Landis+Gyr	FOCUSAX	Self Contained
LGFAXL240000	Landis+Gyr	FOCUSAX	Self Contained
LGFC L010100	Landis+Gyr	ALFC	Self Contained
LGFC L020100	Landis+Gyr	ALFC	Self Contained
LGFC L030100	Landis+Gyr	ALFC	Self Contained
LGFC L040100	Landis+Gyr	ALFC	Self Contained
LGFC L050100	Landis+Gyr	ALFC	Self Contained
LGFC L060100	Landis+Gyr	ALFC	Self Contained
LGFC L070000	Landis+Gyr	ALF and ALFC	Self Contained
LGFCXL010000	Landis+Gyr	ALFC	Self Contained, Network
LGMS L120000	Landis+Gyr/Duncan	MS	Self Contained
LGTRSL010000	Landis+Gyr	ALFC	Single Phase, Tranformer Rated
LGXX L020000	Landis+Gyr/Duncan	MTNS12S	Self Contained, Network
SSTP GROUP	**MANUFACTURER**	**MODEL**	**DESCRIPTION**
SAC1 L010000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L020000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L030000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L040000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L050000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L060000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SAC1 L070000	Itron/Schlumberger/Sangamo	C1SC	Self Contained
SACN L010000	Itron/Schlumberger/Sangamo	CN1SC	Self Contained, Network
SAJ5 L100000	Sangamo	J5	Self Contained
SATRPL010000	Itron/Schlumberger/Sangamo	SS3S1L and SV3ST	Polyphase, Transformer Rated
SATRPL020000	Itron/Schlumberger/Sangamo	SS4S1L and SV4ST	Polyphase, Transformer Rated
SATRSL010000	Itron/Schlumberger/Sangamo	C1SC	Single Phase, Tranformer Rated
SATRSL020000	Itron/Schlumberger/Sangamo	SS1S1L	Single Phase, Tranformer Rated
SAXX L020000	Itron/Schlumberger/Sangamo	S12S and SL12S	Self Contained, Network
STSENL010000	Itron/Schlumberger/Sangamo	SS2S1L	Self Contained
STSENL020000	Itron/Schlumberger/Sangamo	SS4S1L	Self Contained
STSENL030000	Itron/Schlumberger/Sangamo	SS1S1L	Self Contained
STSENL040000	Itron/Schlumberger/Sangamo	SS1S1L	Self Contained
STSENL050000	Itron/Schlumberger/Sangamo	SS1S1L	Self Contained
SSTP GROUP	**MANUFACTURER**	**MODEL**	**DESCRIPTION**
WEXX L010000	ABB/Westinghouse	DS5U	Self Contained, Network

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UTILITY: WISCONSIN ELECTRIC POWER COMPANY 2019

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	Δ P	$\overline{X}$	S	P	M	$\Delta\overline{X}$	Δ S	Δ P
GE210L101	7356	50														
*GE210L102	6965	50														
*GE210L10301	1261	35														
**GE210L10302	1213	35														
**GE210L10303	1272	35														
**GE210L10304	1235	35														
*GE210L201	7544	50														
GE210L202	8419	75														
GE210L203	7980	50														
*GE210L204	7448	50														
GE210L205	10004	75														
GE210L301	9088	75														
GE210L302	8818	75														
GE210L303	8762	75														
GE210L304	8737	75														
GE210L305	8841	75														
GE210L306	8474	75														
GE210L401	8672	75														
GE210L402	8765	75														
GE210L403	8768	75														
GE210L404	8727	75														
GE210L405	8832	75														
GE210L406	8951	75														
GE210L5	3233	50														
GE21CL1	10395	75														
GEI70L2301	102	10														
GEI70L2302	97	10														
GEI70L2303	477	25														
GEI70L24	569	30														
GEKV2L1	132	15														
GEKV2L2	464	25														
GEKV2L3	2660	40														
GEKV2L4	1849	40														
GEKV2L5	288	20														

GETRPL1	1776	40															
GETRSL1	3079	40															
GEXXL02	1595	40															
GTSSL1	84	10															
GTSSL2	1325	40															
GTSSL3	1462	40															
MFG TOTAL	195,719	1,990															

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 2019

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	Δ P	$\overline{X}$	S	P	M	$\Delta\overline{X}$	Δ S	Δ P
LGFAL1	11231	75														
LGFAL2	173	15														
LGFAL3	6137	50														
LGFAL4	28229	100														
LGFAXL1	5926	50														
LGFAXL2	6231	50														
LGFAXL3	3380	50														
LGFAXL4	2741	40														
LGFAXL5	4167	50														
LGFAXL6	7141	50														
LGFAXL7	5586	50														
LGFAXL8	796	30														
LGFAXL9	1225	35														
LGFAXL10	51	7														
LGFAXL11	30383	100														
LGFAXL12	40487	100														
LGFAXL13	36439	100														
LGFAXL14	41600	100														
LGFAXL15	40999	100														
LGFAXL16	41194	100														
LGFAXL17	10301	75														
LGFAXL18	39597	100														
LGFAXL19	39425	100														
LGFAXL20	39600	100														
LGFAXL21	35233	100														
LGFAXL22	39040	100														
LGFAXL23	11822	75														
LGFAXL24	293	20														
LGFCL101	33788	100														
LGFCL201	36608	100														
LGFCL301	24859	100														
LGFCL401	38289	100														
LGFCL501	41537	100														
LGFCL601	35406	100														

LGFCL7	2644	40															
LGFCXL1	19802	75															
LGMSL12	206	20															
LGTRSL1	857	35															
LGXXL2	134	15															
MFG TOTAL	763,557	2,707															

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*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 — 2019

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
SAC1L1	506	30														
SAC1L2	421	25														
SAC1L3	487	25														
SAC1L4	354	25														
SAC1L5	1562	40														
SAC1L6	5953	50														
SAC1L7	706	30														
SACNL1	21955	75														
SAJ5L10	491	25														
SATRPL1	2168	40														
SATRPL2	5506	50														
SATRSL1	1571	40														
SATRSL2	1109	35														
SAXXL2	2378	40														
STSENL1	5046	50														
STSENL2	13872	75														
STSENL3	1032	35														
STSENL4	1956	40														
STSENL5	68	10														
MFG TOTAL	67,141	740														

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

PUBLIC SERVICE COMMISSION OF WISCONSIN

UTILITY: WISCONSIN ELECTRIC POWER COMPANY

2019

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
WEXXL1	4,148	50														
MFG TOTAL	4,148	50														
COMPANY TOTAL	1,030,565															
MICHIGAN TOTAL	29,170															
WISCONSIN TOTAL	1,001,395															

NOTE:

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*SA-J3-L2-2