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Logger CW014338

		Line To Line	Line To Line	Line To	Current (Current	Phase Angle	Power F	requency	THD Voltage	THD Current		Reactive A	Apparent Power
		Voltage (L1-L2)	_	_	(L1)	(L3)		(All	(AII	(AII	(AII	(All	(All	(All
		Avg.	Avg.	Avg.	Avg.	Avg.	phases) Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	phases) Avg.	Avg.
		value	value	value	value	value		value	value	value	value	value	value	value
Timestamp T D A P R S V C 8/28/2020 09:00			kV 34.26	kV 33.91	A 260	A 261	23.21	0.9191	Hz 49.98	% 0.76	% 1.56	MW 14.01	Mvar 6.01	MVA 15.25
8/28/2020 10:00		1 34.29	34.40	34.01	281	281		0.9129	50.05	0.63	1.67	15.08	6.74	16.52
8/28/2020 11:00	1	1 34.21	34.33	33.94	292	292	25.08	0.9057	50.12	0.55	1.73	15.55	7.28	17.17
8/28/2020 12:00		1 34.24	34.37	33.99	303	302		0.9017	50.04	0.72	1.55	16.07	7.70	17.82
8/28/2020 13:00		1 34.18	34.31	33.92	308	308		0.9027 0.9024	50.01	0.71	1.54	16.32	7.78	18.07
8/28/2020 14:00		1 34.35 1 34.36	34.46 34.46	34.08 34.09	304 287	303 285	25.52		49.96 49.94	0.75 0.88	1.54 1.67	16.17 15.20	7.72 7.36	17.92 16.88
8/28/2020 16:00		1 34.39	34.52	34.14	256	255		0.9055	49.94	0.88	1.97	13.63	6.40	15.06
8/28/2020 17:00	1	1 34.26	34.40	34.01	243	243	23.95	0.9139	50.11	0.88	2.04	13.04	5.79	14.27
8/28/2020 18:00		1 34.54	34.65	34.28	242	241		0.9129	50.14	0.87	2.17	13.06	5.84	14.30
8/28/2020 19:00 8/28/2020 20:00		2 34.51 2 34.34	34.61 34.47	34.24 34.05	264 293	261 290		0.9137 0.9251	50.01 50.13	0.76 0.88	1.93 1.50	14.23 15.87	6.33 6.51	15.58 17.15
8/28/2020 21:00		2 34.59	34.73	34.30	273	270		0.9231	50.13	0.98	1.67	14.98	5.85	16.08
8/28/2020 22:00	2	2 34.42	34.55	34.14	246	241	21.12	0.9327	50.12	1.06	1.89	13.41	5.18	14.38
8/28/2020 23:00		2 34.25	34.38	33.97	218	213	22.78	0.9218	50.11	1.20	1.91	11.68	4.90	12.67
8/29/2020 00:00		2 34.30 3 34.21	34.40	34.02	185	180		0.9071 0.8940	50.11	1.06	2.36	9.78	4.52 4.50	10.77
8/29/2020 01:00 8/29/2020 02:00		3 34.21 3 34.33	34.29 34.40	33.92 34.04	172 162	169 160	26.60		50.11 50.09	0.92 0.85	2.21 2.20	8.98 8.44	4.50 4.44	10.04 9.54
8/29/2020 03:00		3 34.50	34.56	34.20	156	153		0.8822	49.98	0.71	2.31	8.11	4.33	9.19
8/29/2020 04:00		3 34.09	34.16	33.80	155	152	28.49	0.8788	50.02	0.64	2.25	7.93	4.30	9.02
8/29/2020 05:00		3 34.18	34.25	33.89	154	151	28.80		49.97	0.68	2.12	7.88	4.33	9.00
8/29/2020 06:00		3 34.21 1 34.14	34.28 34.21	33.92 33.86	159 176	156 174		0.8842 0.9004	50.09 49.98	0.64 0.65	2.01 1.94	8.24 9.28	4.35 4.47	9.32 10.30
8/29/2020 08:00		1 34.24	34.31	33.94	208	206		0.9156	49.99	0.56	1.84	11.16	4.90	12.19
8/29/2020 09:00		1 34.14	34.24	33.86	245	242		0.9222	50.07	0.54	1.76	13.18	5.53	14.30
8/29/2020 10:00		1 34.21	34.32	33.96	272	269		0.9130	50.06	0.48	1.76	14.53	6.50	15.91
8/29/2020 11:00		1 34.10	34.22	33.87	283	278		0.9062	50.04	0.49	1.75	14.94	6.97	16.48
8/29/2020 12:00 8/29/2020 13:00		1 34.10 1 34.53	34.23 34.66	33.86 34.29	292 292	289 291	25.53	0.9024 0.9052	50.05 50.06	0.55 0.53	1.72 1.78	15.39 15.70	7.35 7.37	17.05 17.34
8/29/2020 14:00		1 34.48	34.59	34.21	290	289		0.9082	50.13	0.49	1.86	15.59	7.18	17.16
8/29/2020 15:00	1	1 34.22	34.34	33.96	284	283	25.57	0.9020	50.00	0.52	1.93	15.05	7.20	16.68
8/29/2020 16:00		1 34.20	34.29	33.93	270	270	25.80	0.9003	50.06	0.54	2.14	14.31	6.92	15.89
8/29/2020 17:00		1 34.39 1 34.20	34.50	34.14	257 260	256 259		0.9045 0.9085	49.99	0.55 0.52	2.22 2.16	13.75 13.87	6.48	15.20 15.26
8/29/2020 18:00 8/29/2020 19:00		1 34.20 2 34.14	34.30 34.25	33.96 33.86	271	268	24.70 23.35	0.9085	50.01 50.02	0.52	2.16	14.52	6.38 6.27	15.26
8/29/2020 20:00		2 34.41	34.52	34.12	282	278		0.9267	50.02	0.53	1.77	15.29	6.21	16.51
8/29/2020 21:00		2 34.37	34.48	34.08	262	258	20.83	0.9346	50.14	0.59	1.79	14.30	5.44	15.30
8/29/2020 22:00		2 34.27	34.38	34.00	240	235	21.35	0.9313	50.08	0.62	2.13	12.97	5.07	13.93
8/29/2020 23:00 8/30/2020 00:00		2 34.29 2 34.30	34.39 34.39	34.02 34.02	211 183	207 179		0.9200 0.9054	50.07 50.15	1.09 1.19	2.48 2.47	11.29 9.65	4.80 4.52	12.27 10.66
8/30/2020 01:00		3 34.03	34.10	33.74	166	163		0.8911	50.13	1.01	2.33	8.58	4.37	9.63
8/30/2020 02:00		3 34.05	34.11	33.74	156	154	28.26	0.8808	50.10	0.80	2.21	7.99	4.30	9.08
8/30/2020 03:00		3 34.17	34.20	33.84	153	151		0.8780	50.08	0.79	2.05	7.86	4.28	8.95
8/30/2020 04:00 8/30/2020 05:00		3 34.28 3 34.36	34.31 34.42	33.95 34.09	148 144	146 142		0.8752 0.8786	50.15 50.05	0.75 0.97	2.11 1.80	7.61 7.44	4.21 4.05	8.70 8.47
8/30/2020 06:00		3 34.21	34.26	33.94	145	143		0.8873	49.95	1.05	1.67	7.44	3.89	8.44
8/30/2020 07:00	1	1 34.09	34.15	33.82	157	155	25.61	0.9016	49.99	1.06	1.54	8.21	3.93	9.10
8/30/2020 08:00		1 34.11	34.19	33.84	189	187		0.9153	49.98	0.99	1.49	10.06	4.42	10.99
8/30/2020 09:00 8/30/2020 10:00			34.30 34.20	33.93 33.84	227 247	224 245		0.9198 0.9210	49.98 50.10	0.77 0.75	1.64 1.62	12.14 13.25	5.18 5.60	13.20 14.38
8/30/2020 11:00			34.49	34.14	247	243		0.9210	50.10	0.75	1.72	13.14	5.73	14.38
8/30/2020 12:00			34.28	33.93	263	261		0.9109	50.08	0.89	1.79	14.00	6.34	15.37
8/30/2020 13:00			34.53	34.18	269	268		0.9081	50.02	0.94	1.82	14.41	6.65	15.87
8/30/2020 14:00			34.41	34.05	267	265			50.08	0.94	1.92	14.30	6.44	15.68
8/30/2020 15:00 8/30/2020 16:00			34.14 34.28	33.78 33.92	250 222	247 219		0.9063 0.9060	50.02 50.06	0.97 1.00	2.14 2.38	13.17 11.74	6.14 5.48	14.53 12.96
8/30/2020 17:00			34.43	34.05	201	199		0.9026	50.02	0.96	2.81	10.65	5.08	11.79
8/30/2020 18:00			34.34	33.95	203	202		0.9054	49.95	1.12		10.76	5.04	11.88
8/30/2020 19:00			34.23	33.80	230	228		0.9172	49.98	1.22		12.24	5.31	13.34
8/30/2020 20:00			34.29	33.81	270	269		0.9272	50.10	1.24	1.66	14.58	5.89	15.72
8/30/2020 21:00		2 34.10 2 34.46	34.28 34.62	33.80 34.16	270 246	269 244		0.9292 0.9298	50.03 50.14	1.24 1.23	1.66 1.89	14.59 13.42	5.80 5.31	15.70 14.43
8/30/2020 23:00		2 34.40	34.32	33.87	217	214		0.9296	50.14	1.43	1.94	11.63	4.89	12.62
8/31/2020 00:00		2 34.44	34.55	34.14	178	175		0.9077	50.18	1.35	2.40	9.47	4.37	10.43
8/31/2020 01:00		3 34.31	34.43	34.06	161	160		0.8948	50.18	1.66	1.46	8.46	4.22	9.45
8/31/2020 02:00		34.28	34.38	34.03	151	150		0.8862	50.04	1.47	1.42	7.89	4.12	8.90
8/31/2020 03:00	3	3 34.25	34.34	33.99	147	145	∠8.07	0.8823	50.07	1.33	1.46	7.60	4.05	8.61

about:blank 3/2/2021

8/31/2020 04:00 -	 3 3	34.07	34.15	33.81	144	142	28.57	0.8782	50.05	1.29	1.52	7.37	4.01	8.39
8/31/2020 05:00 -	3 3	34.06	34.14	33.79	144	142	28.49	0.8789	50.07	1.26	1.49	7.37	4.00	8.38
8/31/2020 06:00 -	3 3	33.99	34.08	33.74	149	147	27.23	0.8891	50.04	1.28	1.37	7.72	3.97	8.68
8/31/2020 07:00 -	1 1	34.16	34.28	33.92	174	172	24.97	0.9064	50.04	1.27	1.19	9.20	4.28	10.15
8/31/2020 08:00 -	1 1	34.13	34.26	33.88	218	218	22.86	0.9214	50.10	0.73	1.63	11.76	4.96	12.76
8/31/2020 09:00 -	1 1	34.02	34.17	33.80	264	264	23.40	0.9177	49.99	0.68	1.55	14.17	6.14	15.44
8/31/2020 10:00 -	1 1	33.90	34.08	33.74	294	293	24.35	0.9110	50.17	0.78	1.42	15.60	7.06	17.13
8/31/2020 11:00 -	1 1	33.90	34.08	33.73	301	299	24.92		50.12	0.90	1.45	15.89	7.38	17.52
8/31/2020 12:00 -	1 1	34.22	34.37	34.03	308	307	25.71	0.9010	50.03	0.79	1.45	16.28	7.84	18.07
8/31/2020 13:00 -	1 1 1 1	34.22 34.43	34.39 34.58	34.02 34.19	316 301	314 300	25.90 25.28	0.8996 0.9042	50.04	0.76 0.59	1.45 1.65	16.66	8.09	18.52 17.80
8/31/2020 14:00 - 8/31/2020 15:00 -	1 1	34.43	34.38	34.19	223	222	23.65	0.9042	50.12 50.04	0.55	2.43	16.09 12.00	7.60 5.26	13.10
8/31/2020 15:00 -	1 1	34.33	34.29	33.89	237	235	23.94	0.9139	50.05	0.57	2.43	12.63	5.61	13.10
8/31/2020 17:00 -	1 1	34.41	34.54	34.14	259	257	24.89	0.9139	50.03	0.49	2.42	13.82	6.41	15.02
8/31/2020 17:00 -	1 1	34.29	34.43	34.02	272	272	24.70	0.9071	50.05	0.56	2.20	14.57	6.70	16.03
8/31/2020 19:00 -	2 2	34.30	34.46	34.02	281	280	23.53	0.9168	50.06	0.47	1.85	15.12	6.58	16.49
8/31/2020 20:00 -	2 2	34.20	34.41	33.94	293	292	21.85	0.9282	50.08	0.45	1.48	15.12	6.36	17.10
8/31/2020 21:00 -	2 2	34.24	34.42	33.95	272	271	20.98	0.9337	50.11	0.42	1.50	14.82	5.68	15.87
8/31/2020 22:00 -	2 2	34.42	34.57	34.13	245	242	21.80	0.9285	50.07	0.40	1.84	13.30	5.31	14.32
8/31/2020 23:00 -	2 2	34.31	34.47	34.04	207	204		0.9195	50.13	0.46	2.39	11.13	4.74	12.10
	 2 2	34.24	34.37	33.96	178	175	26.13	0.8976	50.14	0.95	2.26	9.34	4.58	10.40
	 3 3	34.23	34.33	33.94	166	164	28.19	0.8813	50.09	1.07	1.86	8.57	4.60	9.73
9/1/2020 02:00 -	 3 3	34.57	34.65	34.27	157	155	28.82	0.8761	50.10	0.92	1.84	8.13	4.47	9.27
9/1/2020 03:00 -	 3 3	34.36	34.43	34.05	148	146	29.18	0.8730	50.02	0.89	1.89	7.57	4.23	8.67
9/1/2020 04:00 -	 3 3	34.39	34.46	34.06	142	140	29.10	0.8738	50.03	0.87	1.97	7.26	4.04	8.31
9/1/2020 05:00 -	 3 3	34.59	34.66	34.26	142	140	28.77	0.8765	50.12	0.83	1.97	7.36	4.04	8.39
9/1/2020 06:00 -	 3 3	34.40	34.49	34.09	152	150	27.22	0.8892	50.03	0.77	1.81	7.94	4.08	8.93
9/1/2020 07:00 -	 1 1	34.10	34.21	33.81	172	169	24.73	0.9082	49.92	0.75	1.65	9.09	4.18	10.01
9/1/2020 08:00 -	 1 1	34.24	34.36	33.96	214	212	22.90	0.9211	50.01	0.63	1.73	11.52	4.86	12.50
9/1/2020 09:00 -	 1 1	34.12	34.25	33.85	258	256	23.09	0.9199	50.08	0.66	1.65	13.86	5.91	15.06
9/1/2020 10:00 -	 1 1	34.07	34.22	33.83	280	278	23.97	0.9137	50.10	0.71	1.61	14.91	6.63	16.32
3/1/2020 11.00	 1 1	34.12	34.28	33.88	286	285	24.78	0.9080	50.12	0.75	1.64	15.18	7.01	16.72
3, 1, 2020 12:00	 1 1	34.02	34.20	33.79	299	298	25.55	0.9022	50.06	0.75	1.59	15.75	7.53	17.45
3, 1, 2020 10.00	 1 1	34.35	34.52	34.13	292	290	25.34	0.9038	50.08	0.59	1.69	15.53	7.34	17.18
3/1/2020 11.00	 1 1	34.23	34.39	34.01	270	268	26.58	0.8943	50.05	0.53	1.71	14.16	7.08	15.84
3, 1, 2020 10.00	 1 1	34.15	34.28	33.91	279	279	25.99	0.8989	50.09	0.61	1.89	14.77	7.20	16.43
3, 1, 2020 10:00	 1 1	34.01	34.13	33.77	267	268	26.04	0.8985	50.00	0.51	2.09	14.08	6.88	15.67
-, ,	 1 1	34.32	34.44	34.07	258	259	26.03	0.8986	50.06	0.62	2.13	13.75	6.71	15.30
3, 1, 2020 10:00	 1 1	34.46	34.57	34.19	248	248	24.96	0.9067	50.16	0.62	2.27	13.33	6.20	14.70
3, 1, 2020 13:00	 2 2	34.36	34.50	34.09	247	248	23.66	0.9159	50.07	0.43	2.23	13.37	5.86	14.60
3, 1, 2020 20:00	 2 2	34.12	34.28	33.85	273	273	21.83	0.9283	50.05	0.37	1.70	14.81	5.93	15.96
9/1/2020 21:00 -	 2 2	34.49	34.66	34.20	270	269	22.09	0.9265	50.14	0.66	1.75	14.72	5.98	15.89
3, 1, 2020 22:00	 2 2 2	34.35 34.20	34.49	34.06 33.92	236 208	235 206	21.58	0.9298 0.9196	50.20	0.73 0.74	2.09	12.90	5.10	13.87 12.13
9/1/2020 23:00 - 9/2/2020 00:00 -	 2 2	34.20	34.32 34.45	34.06	208 176	175	23.11 25.57	0.9196	50.14 50.14	0.74	2.44 2.63	11.16 9.33	4.76 4.46	10.35
9/2/2020 00:00 -	 3 3	34.33	34.45	33.99	160	158	27.80	0.9019	50.14	0.71	2.63	9.33 8.28	4.46	9.36
	 3 3	34.46	34.55	34.19	150	148	28.49	0.8789	50.06	0.56	2.45	7.75	4.21	8.82
	 3 3	34.41	34.48	34.12	143	142	28.47	0.8791	50.08	0.62	2.20	7.73	4.02	8.44
9/2/2020 03:00	 3 3	34.50	34.57	34.21	140	137	29.22	0.8727	50.08	0.71	2.11	7.18	4.02	8.23
	 3 3	34.51	34.57	34.20	70	69	28.18	0.8814	50.07	0.62	4.46	3.62	1.96	4.11
	 3 3	34.36	34.44	34.07	88	86		0.9013	50.09	0.72	3.67	4.62	2.19	5.11
	 1 1	34.33	34.43	34.10	144	142	23.48	0.9170	50.00	0.76	1.95	7.71	3.34	8.40
	 1 1	33.98	34.11	33.76	202	201	23.02		49.97	0.75	1.67	10.81	4.59	11.74
9/2/2020 09:00 -	 1 1	34.08	34.23	33.84	241	241	22.51		50.04	0.69	1.69	13.04	5.40	14.11
9/2/2020 10:00 -	 1 1	34.06	34.23	33.84	268	267	23.62		50.11	0.63	1.73	14.37	6.28	15.69
9/2/2020 11:00 -	 1 1	34.01	34.18	33.78	262	260	25.69	0.9011	50.11	0.60	1.69	13.77	6.62	15.28
9/2/2020 12:00 -	 1 1	34.04	34.21	33.83	304	300	25.95	0.8992	50.12	0.66	1.52	15.92	7.75	17.71
., ,	 1 1	34.17	34.35	33.96	321	317	26.04	0.8985	50.08	0.58	1.54	16.88	8.25	18.78
-, ,	 1 1	34.23	34.40	34.01	317	313	25.90	0.8996	50.10	0.60	1.58	16.69	8.10	18.55
3, 2, 2020 13:00	 1 1	34.18	34.35	33.99	304	300	26.38	0.8959	50.10	0.60	1.69	15.95	7.91	17.81
3, 2, 2020 10.00	 1 1	34.13	34.32	33.95	287	284		0.8964	50.04	0.66	1.79	15.03	7.44	16.77
9/2/2020 17:00 -	 1 1	34.10	34.27	33.89	279	276	26.26	0.8969	50.04	0.68	1.89	14.59	7.20	16.27
-, ,	 1 1	34.24	34.39	34.02	273	270	25.97		50.04	0.67	1.93	14.36	6.99	15.97
3, 2, 2020 13:00	 2 2	34.22	34.37	33.96	273	271	23.91		50.14	0.52	1.87	14.59	6.47	15.96
9/2/2020 20:00 -	 2 2	34.13	34.32	33.88	297	294	22.75	0.9222	50.07	0.44	1.42	15.94	6.68	17.29
3, 2, 2020 21:00	 2 2	34.38	34.57	34.12	282	277	22.06	0.9268	50.07	0.38	1.48	15.27	6.19	16.47
-, ,	 2 2	34.36	34.54	34.09	255	252	22.19	0.9259	50.15	0.37	1.69	13.85	5.65	14.96
., ,	 2 2	34.04	34.20	33.79	221	218	23.38	0.9178	50.18	0.43	2.09	11.80	5.10	12.86
9/3/2020 00:00 -	 2 2 3 3	34.20	34.33	33.97	186	183	25.80	0.9002	50.13	0.65	2.57	9.76	4.72 4.70	10.84
9/3/2020 01:00 -		34.06	34.20 34.37	33.89	172	171	27.84		50.11	0.75	1.96	8.90 8.36	4.70 4.58	10.07
-,-,	 3 3 3	34.25 34.15	34.37 34.28	34.07 33.97	162 160	161	28.72	0.8769 0.8762	50.09 50.03	0.82 0.71	1.77	8.36 8.24	4.58 4.53	9.54
9/3/2020 03:00 - 9/3/2020 04:00 -	 3 3	34.15 34.18	34.28 34.31	33.97 34.01	160 159	159 158	28.80 28.85	0.8752	50.03 50.11	0.71	1.73 1.80	8.24 8.17	4.53 4.50	9.41 9.33
	 3 3	34.16	34.34	34.01	159	155		0.8736	50.11	0.58	1.69	8.01	4.50 4.46	9.33
	 3 3	33.94	34.34	33.78	157	157		0.8892	50.02	0.73	1.57	8.20	4.46	9.17
9/3/2020 07:00 -	 1 1	34.07	34.21	33.76	181	179	25.21	0.8692	49.98	0.73	1.46	9.56	4.50	10.57
9/3/2020 07:00 -	 1 1	34.01	34.16	33.84	225	224	23.58	0.9165	49.94	0.65	1.54	12.06	5.26	13.16
9/3/2020 09:00 -	 1 1	34.10	34.26	33.90	316	315	25.00	0.9062	50.00	0.63	1.29	16.76	7.86	18.51
	 1 1	34.27	34.45	34.06	349	348		0.8945	50.10	0.63	1.17	18.41	9.20	20.58
0/2/2020 11:00														

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	 1	1	34.44	34.61	34.22	269	269	25.83	0.8996	50.11	0.59	1.82	14.27	7.12	15.96
9/3/2020 12:00	 1	1	34.08	34.23	33.85	331	331	26.75	0.8929	50.06	0.70	1.50	17.31	8.77	19.40
9/3/2020 13:00	 1	1	34.38	34.53	34.16	371	372	27.78	0.8847	49.97	0.61	1.23	19.44	10.24	21.97
9/3/2020 14:00	 1	1	34.29	34.43	34.06	371	372	27.72	0.8852	50.05	0.51	1.33	19.43	10.21	21.95
9/3/2020 15:00	 1	1	34.27	34.39	34.05	353	350	28.09	0.8822	49.94	0.57	1.44	18.32	9.78	20.77
9/3/2020 16:00	 1	1	34.15	34.28	33.92	317	316	27.42	0.8876	50.05	0.48	1.75	16.50	8.58	18.60
9/3/2020 17:00	 1	1	33.90	34.05	33.68	311	310	27.34	0.8883	50.03	0.56	1.70	16.08	8.31	18.10
9/3/2020 18:00	 1	1	34.31	34.46	34.08	299	298	26.40	0.8957	50.09	0.52	1.78	15.73	7.81	17.57
9/3/2020 19:00	 2	2	34.17	34.32	33.93	319	317	25.36	0.9036	49.98	0.42	1.67	16.84	7.99	18.64
9/3/2020 20:00	 2	2	34.27	34.44	34.01	301	299	23.03	0.9203	50.10	0.38	1.46	16.22	6.89	17.63
9/3/2020 21:00	 2	2	34.42	34.60	34.17	282	279	22.00	0.9272	50.08	0.36	1.50	15.35	6.21	16.56
9/3/2020 22:00	 2	2	34.35	34.51	34.09	251	247	22.26	0.9254	50.10	0.38	1.76	13.64	5.58	14.74
9/3/2020 23:00	 2	2	34.35	34.50	34.10	221	217	23.57	0.9165	50.17	0.40	2.06	11.87	5.17	12.95
9/4/2020 00:00	 2	2	34.60	34.75	34.37	188	185	25.47	0.9027	50.23	0.45	2.40	10.04	4.78	11.12

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