Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
Eberle		ABC	SRC-Eberle	7.50Y	125.0	0.00	0.00	468.62	0	10017	3291	95	0.00	0.0	0.000	0.000	0	0	0	1325
PL.52878	Eberle	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	124.00	24	2659	844	95	0.15	0.0	0.011	0.011	0	0	0	381
PL.52879	PL.52878	ABC	336 MCM AC	7.50Y	125.0	0.01	0.02	124.00	24	2659	843	95	0.12	0.0	0.021	0.009	0	0	0	381
---------- Feeder No. 2 (Peoples F2) Beginning with Device PD.8008 ----------																				
PD.8008	PL.52879	ABC	480VWE	7.50Y	125.0	0.00	0.02	124.00	0	2659	843	95	0.00	0.0	0.021	0.009	0	0	0	381
PL.52882	PD.8008	ABC	336 MCM AC	7.49Y	124.8	0.17	0.19	124.00	24	2659	843	95	2.32	0.1	0.200	0.179	0	0	0	381
PL.52884	PL.52882	ABC	336 MCM AC	7.48Y	124.6	0.22	0.41	124.00	24	2657	838	95	2.93	0.1	0.426	0.226	0	0	0	381
PL.40827	PL.52884	C	#1/0 ACSR	7.48Y	124.6	0.00	0.41	0.00	0	0	0	100	0.00	0.0	0.432	0.006	0	0	0	0
PD.6232	PL.40827	C	75QA	7.48Y	124.6	0.00	0.41	0.00	0	0	0	100	0.00	0.0	0.432	0.006	0	0	0	0
PL.40828	PD.6232	C	#1/0 ACSR	7.48Y	124.6	0.00	0.41	0.00	0	0	0	100	0.00	0.0	0.482	0.050	0	0	0	0
PL.40826	PL.52884	ABC	336 MCM AC	7.47Y	124.5	0.14	0.55	124.00	24	2654	831	95	1.89	0.1	0.573	0.146	15	4	2	381
PL.40829	PL.40826	A	#4 ACSR	7.47Y	124.4	0.01	0.56	23.09	18	166	48	96	0.01	0.0	0.578	0.006	0	0	0	26
PD.6384	PL.40829	A	50L	7.47Y	124.4	0.00	0.56	23.09	46	166	48	96	0.00	0.0	0.578	0.006	0	0	0	26
PL.40830	PD.6384	A	#4 ACSR	7.46Y	124.4	0.09	0.65	23.09	18	166	48	96	0.11	0.1	0.669	0.091	14	4	1	26
PL.40351	PL.40830	A	#4 ACSR	7.46Y	124.4	0.00	0.65	1.69	1	12	4	95	0.00	0.0	0.768	0.099	12	4	1	1
PL.40831	PL.40830	A	#4 ACSR	7.45Y	124.2	0.12	0.77	19.46	15	139	41	96	0.12	0.1	0.814	0.145	10	3	2	24
PL.40835	PL.40831	A	6 A (CWC)	7.44Y	124.0	0.26	1.03	15.88	11	114	33	96	0.22	0.2	1.172	0.358	0	0	0	18
PL.40727	PL.40835	A	#4 ACSR	7.44Y	124.0	0.00	1.03	0.87	1	6	2	95	0.00	0.0	1.212	0.040	6	2	2	2
PL.40836	PL.40835	A	6 A (CWC)	7.44Y	123.9	0.05	1.08	15.01	11	107	31	96	0.04	0.0	1.248	0.076	0	0	0	16
PL.40837	PL.40836	A	6 A (CWC)	7.43Y	123.8	0.09	1.17	15.01	11	107	31	96	0.07	0.1	1.383	0.135	15	4	1	16
PL.63368	PL.40837	A	#4 ACSR	7.43Y	123.8	0.00	1.17	0.00	0	0	0	100	0.00	0.0	1.383	0.000	0	0	0	0
PL.63369	PL.63368	A	#4 ACSR	7.43Y	123.8	0.00	1.17	0.00	0	0	0	100	0.00	0.0	1.473	0.090	0	0	0	0
PL.40838	PL.40837	A	6 A (CWC)	7.42Y	123.7	0.17	1.34	12.93	9	92	27	96	0.11	0.1	1.699	0.315	17	5	1	15
PL.40839	PL.40838	A	6 A (CWC)	7.41Y	123.6	0.09	1.43	10.51	8	75	22	96	0.05	0.1	1.887	0.189	0	0	0	14
PL.40840	PL.40839	A	6 A (CWC)	7.41Y	123.6	0.02	1.45	2.68	2	19	6	95	0.00	0.0	2.073	0.185	8	2	2	6
PL.40805	PL.40840	A	6 A (CWC)	7.41Y	123.6	0.00	1.45	0.80	1	6	2	95	0.00	0.0	2.112	0.039	0	0	0	2
PL.40842	PL.40805	A	6 A (CWC)	7.41Y	123.6	0.00	1.45	0.80	1	6	2	95	0.00	0.0	2.165	0.053	6	2	2	2
PL.40843	PL.40842	A	6 A (CWC)	7.41Y	123.6	0.00	1.45	0.00	0	0	0	100	0.00	0.0	2.189	0.024	0	0	0	0
PL.40841	PL.40840	A	6 A (CWC)	7.41Y	123.6	0.00	1.45	0.74	1	5	2	93	0.00	0.0	2.257	0.185	5	2	2	2
PL.40844	PL.40839	A	6 A (CWC)	7.41Y	123.5	0.06	1.48	7.83	6	56	16	96	0.02	0.0	2.043	0.156	0	0	0	8

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
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Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40845	PL.40844	A	#2 ACSR	7.41Y	123.5	0.00	1.49	1.47	1	10	3	96	0.00	0.0	2.132	0.089	2	1	1	2
PL.40846	PL.40845	A	#2 ACSR	7.41Y	123.5	0.00	1.49	1.18	1	8	2	97	0.00	0.0	2.222	0.090	8	2	1	1
PL.40816	PL.40844	A	#4 ACSR	7.41Y	123.5	0.01	1.49	1.78	1	13	4	96	0.00	0.0	2.142	0.099	0	0	1	2
PL.40817	PL.40816	A	#4 ACSR	7.41Y	123.5	0.00	1.49	1.78	1	13	4	96	0.00	0.0	2.175	0.033	13	4	1	1
PL.40449	PL.40844	A	6 A (CWC)	7.41Y	123.5	0.02	1.50	4.58	3	33	9	96	0.00	0.0	2.145	0.101	10	3	2	4
PL.40450	PL.40449	A	6 A (CWC)	7.41Y	123.5	0.03	1.53	3.14	2	22	6	96	0.00	0.0	2.378	0.234	9	3	1	2
PL.40451	PL.40450	A	6 A (CWC)	7.41Y	123.5	0.00	1.53	1.88	1	13	4	96	0.00	0.0	2.444	0.066	13	4	1	1
PL.40832	PL.40831	A	#4 ACSR	7.45Y	124.2	0.00	0.77	2.21	2	16	5	95	0.00	0.0	0.841	0.026	0	0	0	4
PL.64564	PL.40832	A	#1/0 ACSR	7.45Y	124.2	0.00	0.77	1.49	1	11	3	96	0.00	0.0	0.895	0.055	11	3	1	1
PL.40833	PL.40832	A	#4 ACSR	7.45Y	124.2	0.01	0.78	0.72	1	5	1	98	0.00	0.0	1.122	0.282	0	0	0	3
PL.40561	PL.40833	A	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.00	0	0	0	100	0.00	0.0	1.297	0.175	0	0	0	0
PL.40834	PL.40833	A	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.72	1	5	1	98	0.00	0.0	1.307	0.184	2	1	1	3
PL.60711	PL.40834	A	6 A (CWC)	7.45Y	124.2	0.00	0.79	0.44	0	3	1	95	0.00	0.0	1.407	0.101	0	0	0	2
PL.60713	PL.60711	A	#1/0 ACSR	7.45Y	124.2	0.00	0.79	0.44	0	3	1	95	0.00	0.0	1.411	0.003	0	0	0	2
PD.9057	PL.60713	A	10T	7.45Y	124.2	0.00	0.79	0.44	0	3	1	95	0.00	0.0	1.411	0.003	0	0	0	2
PL.63372	PD.9057	A	#1/0 ACSR	7.45Y	124.2	0.00	0.79	0.44	0	3	1	95	0.00	0.0	1.520	0.110	0	0	0	2
PL.63374	PL.63372	A	#1/0 ACSR	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	1.712	0.192	0	0	1	1
PL.63373	PL.63372	A	#1/0 ACSR	7.45Y	124.2	0.00	0.79	0.44	0	3	1	95	0.00	0.0	1.651	0.131	3	1	1	1
PL.60712	PL.60711	A	6 A (CWC)	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	1.532	0.124	0	0	0	0
PL.40564	PL.40826	ABC	336 MCM AC	7.45Y	124.2	0.24	0.79	115.60	22	2471	774	95	3.06	0.1	0.844	0.272	0	0	0	353
PL.40565	PL.40564	C	6 A (CWC)	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	0.850	0.006	0	0	0	0
PD.6233	PL.40565	C	75QA	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	0.850	0.006	0	0	0	0
PL.40566	PD.6233	C	6 A (CWC)	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	1.106	0.257	0	0	0	0
PL.40567	PL.40564	ABC	336 MCM AC	7.43Y	123.9	0.30	1.09	115.60	22	2468	767	95	3.76	0.2	1.180	0.335	13	4	4	353
PL.40568	PL.40567	ABC	336 MCM AC	7.42Y	123.7	0.21	1.30	115.01	22	2452	754	96	2.61	0.1	1.414	0.234	0	0	0	348
PL.40570	PL.40568	A	#4 ACSR	7.42Y	123.7	0.00	1.30	1.21	1	9	2	98	0.00	0.0	1.420	0.006	0	0	0	1
PD.6234	PL.40570	A	15T	7.42Y	123.7	0.00	1.30	1.21	0	9	2	98	0.00	0.0	1.420	0.006	0	0	0	1
PL.40571	PD.6234	A	#4 ACSR	7.42Y	123.7	0.00	1.30	1.21	1	9	2	98	0.00	0.0	1.514	0.094	9	2	1	1
PL.40569	PL.40568	ABC	336 MCM AC	7.41Y	123.5	0.18	1.48	114.60	22	2440	746	96	2.31	0.1	1.623	0.209	0	0	0	347
PL.40702	PL.40569	C	6 A (CWC)	7.41Y	123.5	0.00	1.48	18.04	13	128	37	96	0.00	0.0	1.629	0.006	0	0	0	22
PD.6335	PL.40702	C	75QA	7.41Y	123.5	0.00	1.48	18.04	24	128	37	96	0.00	0.0	1.629	0.006	0	0	0	22

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Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40703	PD.6335	C	6 A (CWC)	7.39Y	123.2	0.31	1.80	18.04	13	128	37	96	0.30	0.2	2.007	0.378	0	0	0	22
PL.40413	PL.40703	C	#4 ACSR	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	2.218	0.211	0	0	0	0
PL.40196	PL.40703	C	6 A (CWC)	7.38Y	123.1	0.13	1.93	18.04	13	128	37	96	0.12	0.1	2.178	0.171	19	5	2	22
PL.40197	PL.40196	C	6 A (CWC)	7.37Y	122.8	0.25	2.18	15.41	11	109	32	96	0.20	0.2	2.536	0.357	1	0	1	20
PL.40746	PL.40197	C	6 A (CWC)	7.37Y	122.8	0.07	2.25	15.26	11	108	31	96	0.05	0.0	2.642	0.106	18	5	4	19
PL.40402	PL.40746	C	6 A (CWC)	7.36Y	122.7	0.03	2.28	12.74	9	90	26	96	0.02	0.0	2.706	0.064	25	7	4	15
PL.40403	PL.40402	C	6 A (CWC)	7.36Y	122.7	0.02	2.31	9.18	7	65	19	96	0.01	0.0	2.768	0.062	10	3	1	11
PL.40724	PL.40403	C	6 A (CWC)	7.36Y	122.7	0.00	2.31	2.08	1	15	4	97	0.00	0.0	2.799	0.031	15	4	2	2
PL.40390	PL.40403	C	6 A (CWC)	7.36Y	122.7	0.01	2.31	5.66	4	40	12	96	0.00	0.0	2.798	0.030	9	3	1	8
PL.40391	PL.40390	C	6 A (CWC)	7.36Y	122.7	0.01	2.32	4.42	3	31	9	96	0.00	0.0	2.846	0.049	6	2	1	7
PL.40808	PL.40391	C	6 A (CWC)	7.36Y	122.7	0.01	2.33	3.56	3	25	7	96	0.00	0.0	2.932	0.085	12	3	3	6
PL.40809	PL.40808	C	6 A (CWC)	7.36Y	122.7	0.01	2.34	1.88	1	13	4	96	0.00	0.0	3.142	0.210	13	4	3	3
PL.40452	PL.40569	ABC	336 MCM AC	7.39Y	123.1	0.42	1.90	108.59	21	2310	703	96	5.04	0.2	2.130	0.507	0	0	0	325
PL.40765	PL.40452	A	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.49	0	3	1	95	0.00	0.0	2.165	0.035	3	1	1	1
PL.40502	PL.40452	ABC	336 MCM AC	7.38Y	123.0	0.09	1.99	108.43	21	2301	690	96	1.02	0.0	2.233	0.103	0	0	0	324
PL.40214	PL.40502	ABC	336 MCM AC	7.38Y	123.0	0.05	2.04	71.00	14	1506	451	96	0.40	0.0	2.327	0.094	8	2	3	216
PL.40215	PL.40214	ABC	336 MCM AC	7.38Y	122.9	0.02	2.06	70.62	14	1498	448	96	0.16	0.0	2.367	0.039	9	3	1	213
PL.40216	PL.40215	ABC	336 MCM AC	7.38Y	122.9	0.03	2.08	70.19	14	1488	445	96	0.19	0.0	2.414	0.047	12	3	3	211
PL.63380	PL.40216	B	#1/0 ACSR	7.37Y	122.9	0.00	2.08	1.13	0	8	2	97	0.00	0.0	2.470	0.056	0	0	0	1
PL.63381	PL.63380	B	#1/0 ACSR	7.37Y	122.9	0.00	2.09	1.13	0	8	2	97	0.00	0.0	2.538	0.068	8	2	1	1
PL.40217	PL.40216	ABC	336 MCM AC	7.37Y	122.9	0.04	2.12	69.27	13	1469	439	96	0.28	0.0	2.484	0.070	0	0	0	207
PL.60683	PL.40217	ABC	336 MCM AC	7.37Y	122.8	0.04	2.16	69.22	13	1467	438	96	0.34	0.0	2.567	0.083	0	0	0	206
PL.60685	PL.60683	ABC	336 MCM AC	7.37Y	122.8	0.02	2.18	66.92	13	1418	423	96	0.14	0.0	2.605	0.037	11	3	1	199
PL.62844	PL.60685	ABC	336 MCM AC	7.37Y	122.8	0.05	2.23	66.41	13	1407	419	96	0.37	0.0	2.705	0.101	0	0	0	198
PD.9432	PL.62844	ABC	4C	7.37Y	122.8	0.00	2.23	66.41	0	1407	418	96	0.00	0.0	2.705	0.101	0	0	0	198
PL.62845	PD.9432	ABC	336 MCM AC	7.36Y	122.7	0.04	2.27	66.41	13	1407	418	96	0.26	0.0	2.777	0.071	7	2	2	198
PL.60681	PL.62845	C	6 A (CWC)	7.36Y	122.7	0.00	2.27	1.80	1	13	4	96	0.00	0.0	2.841	0.065	13	4	3	3
PL.40335	PL.60681	C	6 A (CWC)	7.36Y	122.7	0.00	2.27	0.00	0	0	0	100	0.00	0.0	2.860	0.019	0	0	0	0
PL.60682	PL.62845	ABC	336 MCM AC	7.36Y	122.7	0.04	2.31	65.49	13	1387	412	96	0.32	0.0	2.865	0.088	0	0	0	193
PL.52783	PL.60682	ABC	336 MCM AC	7.36Y	122.7	0.03	2.35	65.49	13	1387	411	96	0.25	0.0	2.933	0.068	0	0	0	193
PL.40336	PL.52783	C	6 A (CWC)	7.36Y	122.7	0.00	2.35	0.91	1	6	2	95	0.00	0.0	2.939	0.006	0	0	0	2

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Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.6236	PL.40336	C	20T	7.36Y	122.7	0.00	2.35	0.91	0	6	2	95	0.00	0.0	2.939	0.006	0	0	0	2
PL.40396	PD.6236	C	6 A (CWC)	7.36Y	122.7	0.00	2.35	0.91	1	6	2	95	0.00	0.0	2.990	0.051	0	0	0	2
PL.40397	PL.40396	C	6 A (CWC)	7.36Y	122.6	0.00	2.35	0.58	0	4	1	97	0.00	0.0	3.040	0.050	4	1	1	1
PL.40386	PL.40396	C	6 A (CWC)	7.36Y	122.7	0.00	2.35	0.33	0	2	1	89	0.00	0.0	3.044	0.055	2	1	1	1
PL.40176	PL.52783	ABC	336 MCM AC	7.36Y	122.6	0.05	2.40	65.19	13	1380	409	96	0.36	0.0	3.034	0.101	0	0	0	191
PL.40339	PL.40176	ABC	#3/0 ACSR	7.35Y	122.5	0.08	2.48	40.47	13	856	255	96	0.44	0.1	3.193	0.159	0	0	0	112
PL.40340	PL.40339	ABC	#3/0 ACSR	7.35Y	122.4	0.10	2.58	39.89	13	843	251	96	0.54	0.1	3.394	0.201	0	0	0	111
PL.40341	PL.40340	ABC	#3/0 ACSR	7.34Y	122.4	0.04	2.62	38.65	13	817	242	96	0.18	0.0	3.468	0.074	0	0	0	109
PL.40407	PL.40341	ABC	#3/0 ACSR	7.34Y	122.3	0.04	2.66	38.28	13	808	240	96	0.21	0.0	3.553	0.086	12	3	2	107
PL.40408	PL.40407	ABC	#3/0 ACSR	7.34Y	122.3	0.04	2.70	37.73	13	797	236	96	0.18	0.0	3.630	0.076	0	0	0	105
PL.40410	PL.40408	A	6 A (CWC)	7.34Y	122.3	0.00	2.70	2.24	2	16	5	95	0.00	0.0	3.635	0.006	0	0	0	1
PD.6306	PL.40410	A	75QA	7.34Y	122.3	0.00	2.70	2.24	3	16	5	95	0.00	0.0	3.635	0.006	0	0	0	1
PL.40008	PD.6306	A	6 A (CWC)	7.34Y	122.3	0.01	2.71	2.24	2	16	5	95	0.00	0.0	3.850	0.214	16	5	1	1
PL.40409	PL.40408	B	6 A (CWC)	7.34Y	122.3	0.00	2.70	17.53	13	123	36	96	0.00	0.0	3.635	0.006	0	0	0	19
PD.6394	PL.40409	B	50H	7.34Y	122.3	0.00	2.70	17.53	35	123	36	96	0.00	0.0	3.635	0.006	0	0	0	19
PL.40009	PD.6394	B	6 A (CWC)	7.34Y	122.3	0.04	2.74	17.53	13	123	36	96	0.04	0.0	3.688	0.052	3	1	1	19
PL.40010	PL.40009	B	6 A (CWC)	7.33Y	122.1	0.11	2.85	17.14	12	121	35	96	0.10	0.1	3.831	0.143	8	2	2	18
PL.40756	PL.40010	B	6 A (CWC)	7.32Y	122.1	0.09	2.94	16.02	11	113	33	96	0.08	0.1	3.954	0.123	0	0	0	16
PL.40757	PL.40756	B	6 A (CWC)	7.31Y	121.8	0.21	3.15	16.02	11	113	33	96	0.18	0.2	4.250	0.297	7	2	1	16
PL.40758	PL.40757	B	6 A (CWC)	7.31Y	121.8	0.04	3.19	14.98	11	105	31	96	0.03	0.0	4.309	0.058	1	0	1	15
PL.40759	PL.40758	B	6 A (CWC)	7.31Y	121.8	0.03	3.23	13.51	10	95	27	96	0.02	0.0	4.366	0.057	22	6	1	13
PL.40384	PL.40759	B	6 A (CWC)	7.30Y	121.7	0.08	3.30	10.35	7	73	21	96	0.04	0.1	4.538	0.172	8	2	2	12
PL.40385	PL.40384	B	6 A (CWC)	7.30Y	121.6	0.05	3.36	9.17	7	64	19	96	0.03	0.0	4.666	0.128	0	0	0	10
PL.40255	PL.40385	B	6 A (CWC)	7.30Y	121.6	0.03	3.39	6.74	5	47	14	96	0.01	0.0	4.777	0.112	8	2	1	7
PL.40920	PL.40255	B	6 A (CWC)	7.30Y	121.6	0.02	3.40	5.58	4	39	11	96	0.00	0.0	4.856	0.079	14	4	1	6
PL.40921	PL.40920	B	6 A (CWC)	7.30Y	121.6	0.00	3.41	3.61	3	25	7	96	0.00	0.0	4.886	0.030	9	3	2	5
PL.39654	PL.40921	B	6 A (CWC)	7.30Y	121.6	0.00	3.41	2.31	2	16	5	95	0.00	0.0	4.935	0.049	16	5	3	3
PL.40256	PL.40255	B	6 A (CWC)	7.30Y	121.6	0.00	3.39	0.00	0	0	0	100	0.00	0.0	4.996	0.219	0	0	0	0
PL.60730	PL.40385	B	6 A (CWC)	7.30Y	121.6	0.00	3.36	2.43	2	17	5	96	0.00	0.0	4.736	0.070	15	4	2	3
PL.60731	PL.60730	B	6 A (CWC)	7.30Y	121.6	0.00	3.36	0.33	0	2	1	89	0.00	0.0	4.834	0.098	2	1	1	1
PL.40146	PL.40758	B	#1/0 ACSR	7.31Y	121.8	0.00	3.20	1.37	1	10	3	96	0.00	0.0	4.507	0.199	10	3	1	1

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40135	PL.40408	ABC	#3/0 ACSR	7.33Y	122.2	0.14	2.84	31.14	10	657	195	96	0.56	0.1	3.984	0.355	26	8	2	85
PL.40136	PL.40135	A	6 A (CWC)	7.33Y	122.2	0.00	2.84	1.92	1	14	4	96	0.00	0.0	3.990	0.006	0	0	0	1
PD.6372	PL.40136	A	75QA	7.33Y	122.2	0.00	2.84	1.92	3	14	4	96	0.00	0.0	3.990	0.006	0	0	0	1
PL.40312	PD.6372	A	6 A (CWC)	7.33Y	122.2	0.00	2.84	1.92	1	14	4	96	0.00	0.0	4.023	0.033	14	4	1	1
PL.60667	PL.40135	ABC	#3/0 ACSR	7.33Y	122.1	0.04	2.88	29.26	10	617	183	96	0.17	0.0	4.101	0.116	0	0	0	82
PL.60668	PL.60667	ABC	#3/0 ACSR	7.33Y	122.1	0.01	2.89	29.26	10	617	183	96	0.04	0.0	4.130	0.029	0	0	0	82
PL.40313	PL.60668	ABC	#2 ACSR	7.32Y	122.1	0.04	2.93	29.26	17	617	183	96	0.17	0.0	4.181	0.051	12	4	1	82
PL.40314	PL.40313	ABC	#2 ACSR	7.32Y	122.0	0.09	3.01	28.67	16	604	179	96	0.40	0.1	4.301	0.120	0	0	0	81
PL.40144	PL.40314	ABC	#3/0 ACSR	7.32Y	121.9	0.04	3.05	27.39	9	577	171	96	0.13	0.0	4.410	0.110	39	11	1	76
PL.40762	PL.40144	ABC	#3/0 ACSR	7.31Y	121.8	0.11	3.16	25.42	8	535	159	96	0.35	0.1	4.746	0.335	23	7	3	74
PL.40763	PL.40762	ABC	#3/0 ACSR	7.31Y	121.8	0.02	3.18	24.34	8	512	152	96	0.07	0.0	4.815	0.069	18	5	3	71
PL.40478	PL.40763	ABC	#3/0 ACSR	7.31Y	121.8	0.02	3.20	23.51	8	494	146	96	0.07	0.0	4.888	0.073	13	4	3	68
PL.40479	PL.40478	ABC	#3/0 ACSR	7.31Y	121.8	0.02	3.22	21.44	7	451	134	96	0.05	0.0	4.954	0.066	0	0	0	62
PL.61092	PL.40479	ABC	#3/0 ACSR	7.31Y	121.8	0.01	3.23	7.10	2	149	46	96	0.01	0.0	5.029	0.075	11	3	3	16
PL.61094	PL.61092	ABC	#3/0 ACSR	7.31Y	121.8	0.00	3.23	3.36	1	70	23	95	0.00	0.0	5.079	0.050	0	0	0	5
PL.59628	PL.61094	ABC	#3/0 ACSR	7.31Y	121.8	0.00	3.23	3.36	1	70	23	95	0.00	0.0	5.127	0.048	57	17	4	5
PL.59633	PL.59628	ABC	#3/0 ACSR	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	5.233	0.106	0	0	0	0
PD.10593-A	PL.59633	ABC	Open	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	5.233	0.106	0	0	0	0
PL.59627	PL.59628	ABC	#3/0 ACSR	7.31Y	121.8	0.00	3.23	0.65	0	13	6	91	0.00	0.0	5.136	0.009	13	6	1	1
PL.61091	PL.61092	A	6 A (CWC)	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	5.034	0.006	0	0	0	0
PD.6267	PL.61091	A	40QA	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	5.034	0.006	0	0	0	0
PL.61095	PD.6267	A	6 A (CWC)	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	5.060	0.026	0	0	0	0
PL.61093	PL.61092	C	6 A (CWC)	7.31Y	121.8	0.00	3.23	9.66	7	68	20	96	0.00	0.0	5.034	0.006	0	0	0	8
PD.6337	PL.61093	C	75QA	7.31Y	121.8	0.00	3.23	9.66	13	68	20	96	0.00	0.0	5.034	0.006	0	0	0	8
PL.40927	PD.6337	C	6 A (CWC)	7.31Y	121.8	0.02	3.24	9.66	7	68	20	96	0.01	0.0	5.072	0.037	10	3	1	8
PL.40928	PL.40927	C	6 A (CWC)	7.31Y	121.8	0.00	3.25	4.52	3	32	9	96	0.00	0.0	5.109	0.037	32	9	4	4
PL.40929	PL.40928	C	6 A (CWC)	7.31Y	121.8	0.00	3.25	0.00	0	0	0	100	0.00	0.0	5.163	0.054	0	0	0	0
PL.40930	PL.40929	C	6 A (CWC)	7.31Y	121.8	0.00	3.25	0.00	0	0	0	100	0.00	0.0	5.201	0.038	0	0	0	0
PL.40696	PL.40927	C	#4 ACSR	7.31Y	121.8	0.00	3.25	3.65	3	26	7	97	0.00	0.0	5.130	0.059	26	7	3	3
PL.40769	PL.40479	ABC	#1/0 ACSR	7.31Y	121.8	0.01	3.23	13.39	6	282	82	96	0.02	0.0	4.987	0.033	0	0	0	43
PL.40931	PL.40769	ABC	#1/0 ACSR	7.31Y	121.8	0.00	3.23	13.39	6	282	82	96	0.00	0.0	4.993	0.006	0	0	0	43

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.6386	PL.40931	ABC	35L	7.31Y	121.8	0.00	3.23	13.39	38	282	82	96	0.00	0.0	4.993	0.006	0	0	0	43
PL.40586	PD.6386	ABC	#1/0 ACSR	7.31Y	121.8	0.00	3.23	13.39	6	282	82	96	0.01	0.0	5.008	0.016	0	0	0	43
PL.40587	PL.40586	C	#1/0 ACSR	7.31Y	121.8	0.00	3.23	1.13	0	8	2	97	0.00	0.0	5.014	0.006	0	0	0	1
PD.6264	PL.40587	C	40QA	7.31Y	121.8	0.00	3.23	1.13	3	8	2	97	0.00	0.0	5.014	0.006	0	0	0	1
PL.40588	PD.6264	C	#1/0 ACSR	7.31Y	121.8	0.00	3.23	1.13	0	8	2	97	0.00	0.0	5.027	0.013	8	2	1	1
PL.40589	PL.40586	ABC	#1/0 ACSR	7.31Y	121.8	0.01	3.24	13.02	6	274	80	96	0.02	0.0	5.050	0.042	0	0	0	42
PL.40590	PL.40589	A	#1/0 ACSR	7.31Y	121.8	0.00	3.24	0.00	0	0	0	100	0.00	0.0	5.056	0.006	0	0	0	0
PD.6363	PL.40590	A	40QA	7.31Y	121.8	0.00	3.24	0.00	0	0	0	100	0.00	0.0	5.056	0.006	0	0	0	0
PL.40591	PD.6363	A	#1/0 ACSR	7.31Y	121.8	0.00	3.24	0.00	0	0	0	100	0.00	0.0	5.088	0.032	0	0	0	0
PL.40592	PL.40589	ABC	#1/0 ACSR	7.30Y	121.7	0.08	3.33	13.02	6	274	80	96	0.16	0.1	5.403	0.352	0	0	0	42
PL.40595	PL.40592	ABC	#1/0 ACSR	7.30Y	121.7	0.01	3.34	12.56	5	264	77	96	0.03	0.0	5.467	0.064	10	3	1	40
PL.40596	PL.40595	ABC	#1/0 ACSR	7.30Y	121.6	0.04	3.38	12.09	5	254	74	96	0.07	0.0	5.646	0.179	0	0	0	39
PL.40728	PL.40596	ABC	#1/0 ACSR	7.30Y	121.6	0.00	3.38	2.69	1	57	16	96	0.00	0.0	5.706	0.060	0	0	0	8
PL.40601	PL.40728	B	6 A (CWC)	7.30Y	121.6	0.00	3.38	8.07	6	57	16	96	0.00	0.0	5.712	0.006	0	0	0	8
PD.6262	PL.40601	B	60QA	7.30Y	121.6	0.00	3.38	8.07	13	57	16	96	0.00	0.0	5.712	0.006	0	0	0	8
PL.40602	PD.6262	B	6 A (CWC)	7.29Y	121.6	0.06	3.44	8.07	6	57	16	96	0.02	0.0	5.887	0.175	11	3	2	8
PL.40603	PL.40602	B	6 A (CWC)	7.29Y	121.5	0.07	3.51	6.47	5	45	13	96	0.02	0.1	6.124	0.238	2	1	1	6
PL.59217	PL.40603	B	6 A (CWC)	7.29Y	121.4	0.06	3.57	6.13	4	43	12	96	0.02	0.0	6.341	0.216	0	0	0	5
PL.59220	PL.59217	B	6 A (CWC)	7.29Y	121.4	0.00	3.58	3.12	2	22	6	96	0.00	0.0	6.365	0.024	12	4	1	3
PL.59221	PL.59220	B	6 A (CWC)	7.28Y	121.4	0.02	3.60	1.34	1	9	3	95	0.00	0.0	6.776	0.411	1	0	1	2
PL.59218	PL.59221	B	6 A (CWC)	7.28Y	121.4	0.01	3.61	1.17	1	8	2	97	0.00	0.0	6.900	0.124	0	0	0	1
PL.60830	PL.59218	B	#1/0 ACSR	7.28Y	121.4	0.00	3.61	1.17	1	8	2	97	0.00	0.0	6.988	0.089	8	2	1	1
PL.59219	PL.59217	B	6 A (CWC)	7.28Y	121.4	0.03	3.60	3.01	2	21	6	96	0.00	0.0	6.522	0.182	0	0	0	2
PL.39673	PL.59219	B	6 A (CWC)	7.28Y	121.4	0.01	3.60	3.01	2	21	6	96	0.00	0.0	6.595	0.073	21	6	2	2
PL.40599	PL.40596	A	6 A (CWC)	7.30Y	121.6	0.01	3.39	25.75	18	180	53	96	0.01	0.0	5.652	0.006	0	0	0	28
PD.6263	PL.40599	A	60QA	7.30Y	121.6	0.00	3.39	25.75	43	180	53	96	0.00	0.0	5.652	0.006	0	0	0	28
PL.40600	PD.6263	A	6 A (CWC)	7.29Y	121.6	0.03	3.42	25.75	18	180	53	96	0.04	0.0	5.679	0.028	5	1	1	28
PL.59215	PL.40600	A	6 A (CWC)	7.29Y	121.5	0.13	3.55	25.08	18	176	51	96	0.17	0.1	5.793	0.114	4	1	1	27
PL.59216	PL.59215	A	6 A (CWC)	7.28Y	121.3	0.17	3.72	24.55	18	172	50	96	0.22	0.1	5.951	0.157	10	3	2	26
PL.39679	PL.59216	A	6 A (CWC)	7.27Y	121.1	0.13	3.86	23.11	17	161	47	96	0.16	0.1	6.080	0.129	6	2	2	24
PL.39680	PL.39679	A	6 A (CWC)	7.26Y	121.1	0.07	3.93	22.25	16	155	45	96	0.08	0.1	6.149	0.070	0	0	0	22

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40013	PL.39680	A	6 A (CWC)	7.26Y	121.0	0.06	3.99	22.25	16	155	45	96	0.08	0.0	6.212	0.063	0	0	0	22
PL.40202	PL.40013	A	6 A (CWC)	7.26Y	121.0	0.00	3.99	0.36	0	3	1	95	0.00	0.0	6.256	0.044	3	1	1	1
PL.60646	PL.40013	A	6 A (CWC)	7.26Y	121.0	0.02	4.01	8.77	6	61	18	96	0.01	0.0	6.271	0.059	0	0	0	10
PL.60648	PL.60646	A	#1/0 ACSR	7.26Y	121.0	0.00	4.01	2.22	1	15	4	97	0.00	0.0	6.274	0.003	0	0	0	1
PD.9053	PL.60648	A	12T	7.26Y	121.0	0.00	4.01	2.22	0	15	4	97	0.00	0.0	6.274	0.003	0	0	0	1
PL.60680	PD.9053	A	#1/0 ACSR	7.26Y	121.0	0.00	4.02	2.22	1	15	4	97	0.00	0.0	6.451	0.177	15	4	1	1
PL.60647	PL.60646	A	6 A (CWC)	7.26Y	120.9	0.05	4.07	6.55	5	46	13	96	0.02	0.0	6.444	0.173	1	0	1	9
PL.40363	PL.60647	A	6 A (CWC)	7.25Y	120.9	0.04	4.11	6.48	5	45	13	96	0.02	0.0	6.594	0.151	0	0	0	8
PL.53020	PL.40363	A	6 A (CWC)	7.25Y	120.9	0.03	4.15	4.97	4	35	10	96	0.01	0.0	6.744	0.150	0	0	1	7
PL.53021	PL.53020	A	6 A (CWC)	7.25Y	120.8	0.02	4.16	4.94	4	34	10	96	0.00	0.0	6.823	0.078	0	0	0	6
PL.40364	PL.53021	A	6 A (CWC)	7.25Y	120.8	0.02	4.19	4.91	4	34	10	96	0.01	0.0	6.927	0.104	0	0	0	5
PL.40365	PL.40364	A	6 A (CWC)	7.25Y	120.8	0.01	4.19	4.91	4	34	10	96	0.00	0.0	6.959	0.032	0	0	0	5
PL.40366	PL.40365	A	6 A (CWC)	7.25Y	120.8	0.00	4.20	1.95	1	14	4	96	0.00	0.0	7.014	0.055	0	0	0	2
PL.40367	PL.40366	A	6 A (CWC)	7.25Y	120.8	0.00	4.20	1.93	1	13	4	96	0.00	0.0	7.051	0.037	13	4	1	1
PL.40742	PL.40366	A	6 A (CWC)	7.25Y	120.8	0.00	4.20	0.02	0	0	0	100	0.00	0.0	7.039	0.025	0	0	1	1
PL.40353	PL.40365	A	6 A (CWC)	7.25Y	120.8	0.00	4.20	2.96	2	21	6	96	0.00	0.0	7.032	0.073	21	6	3	3
PL.60664	PL.53021	A	#2 ACSR	7.25Y	120.8	0.00	4.16	0.03	0	0	0	100	0.00	0.0	6.871	0.048	0	0	0	1
PL.60666	PL.60664	A	#1/0 ACSR	7.25Y	120.8	0.00	4.16	0.03	0	0	0	100	0.00	0.0	6.914	0.043	0	0	1	1
PL.60665	PL.60664	A	#2 ACSR	7.25Y	120.8	0.00	4.16	0.00	0	0	0	100	0.00	0.0	6.962	0.091	0	0	0	0
PL.40578	PL.53021	A	#4 ACSR	7.25Y	120.8	0.00	4.16	0.00	0	0	0	100	0.00	0.0	6.944	0.121	0	0	0	0
PL.40203	PL.40363	A	6 A (CWC)	7.25Y	120.9	0.00	4.11	1.51	1	11	3	96	0.00	0.0	6.656	0.061	11	3	1	1
PL.40014	PL.40013	A	6 A (CWC)	7.26Y	120.9	0.08	4.07	13.12	9	91	27	96	0.05	0.1	6.351	0.138	8	2	1	11
PL.40015	PL.40014	A	6 A (CWC)	7.25Y	120.9	0.03	4.11	12.02	9	84	24	96	0.02	0.0	6.417	0.066	9	3	1	10
PL.40016	PL.40015	A	6 A (CWC)	7.25Y	120.9	0.02	4.12	10.67	8	74	22	96	0.01	0.0	6.454	0.038	0	0	0	9
PL.40358	PL.40016	A	6 A (CWC)	7.25Y	120.8	0.05	4.17	10.67	8	74	22	96	0.03	0.0	6.553	0.099	0	0	0	9
PL.40152	PL.40358	A	6 A (CWC)	7.25Y	120.8	0.00	4.17	1.83	1	13	4	96	0.00	0.0	6.589	0.035	13	4	1	1
PL.60676	PL.40358	A	6 A (CWC)	7.25Y	120.8	0.02	4.20	8.84	6	62	18	96	0.01	0.0	6.616	0.063	8	2	2	8
PL.60677	PL.60676	A	6 A (CWC)	7.25Y	120.8	0.04	4.24	7.62	5	53	15	96	0.02	0.0	6.736	0.120	0	0	0	6
PL.40359	PL.60677	A	6 A (CWC)	7.24Y	120.7	0.01	4.25	5.48	4	38	11	96	0.00	0.0	6.805	0.069	15	4	1	5
PL.40360	PL.40359	A	6 A (CWC)	7.24Y	120.7	0.01	4.27	3.39	2	24	7	96	0.00	0.0	6.899	0.094	2	1	1	4
PL.40813	PL.40360	A	6 A (CWC)	7.24Y	120.7	0.00	4.27	1.18	1	8	2	97	0.00	0.0	6.954	0.055	8	2	1	1

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40361	PL.40360	A	6 A (CWC)	7.24Y	120.7	0.01	4.27	1.85	1	13	4	96	0.00	0.0	7.014	0.115	5	1	1	2
PL.40362	PL.40361	A	6 A (CWC)	7.24Y	120.7	0.00	4.28	1.19	1	8	2	97	0.00	0.0	7.096	0.082	8	2	1	1
PL.40559	PL.60677	A	6 A (CWC)	7.25Y	120.8	0.00	4.24	2.15	2	15	4	97	0.00	0.0	6.784	0.047	15	4	1	1
PL.40597	PL.40596	A	#1/0 ACSR	7.30Y	121.6	0.00	3.38	1.08	0	8	2	97	0.00	0.0	5.652	0.006	0	0	0	2
PD.6265	PL.40597	A	40QA	7.30Y	121.6	0.00	3.38	1.08	3	8	2	97	0.00	0.0	5.652	0.006	0	0	0	2
PL.40598	PD.6265	A	#1/0 ACSR	7.30Y	121.6	0.00	3.38	1.08	0	8	2	97	0.00	0.0	5.662	0.011	8	2	2	2
PL.40250	PL.40596	A	#1/0 ACSR	7.30Y	121.6	0.00	3.38	1.38	1	10	3	96	0.00	0.0	5.713	0.067	10	3	1	1
PL.40593	PL.40592	C	#1/0 ACSR	7.30Y	121.7	0.00	3.33	1.36	1	10	3	96	0.00	0.0	5.408	0.006	0	0	0	2
PD.6266	PL.40593	C	40QA	7.30Y	121.7	0.00	3.33	1.36	3	10	3	96	0.00	0.0	5.408	0.006	0	0	0	2
PL.40594	PD.6266	C	#1/0 ACSR	7.30Y	121.7	0.00	3.33	1.36	1	10	3	96	0.00	0.0	5.431	0.023	10	3	2	2
PL.40925	PL.40479	C	#4 ACSR	7.31Y	121.8	0.00	3.22	2.83	2	20	6	96	0.00	0.0	4.959	0.006	0	0	0	3
PD.6269	PL.40925	C	75QA	7.31Y	121.8	0.00	3.22	2.83	4	20	6	96	0.00	0.0	4.959	0.006	0	0	0	3
PL.40926	PD.6269	C	#4 ACSR	7.31Y	121.8	0.00	3.22	2.83	2	20	6	96	0.00	0.0	4.991	0.031	20	6	3	3
PL.40922	PL.40478	C	#2 ACSR	7.31Y	121.8	0.00	3.20	4.41	3	31	9	96	0.00	0.0	4.893	0.006	0	0	0	3
PD.6326	PL.40922	C	75QA	7.31Y	121.8	0.00	3.20	4.41	6	31	9	96	0.00	0.0	4.893	0.006	0	0	0	3
PL.40923	PD.6326	C	#2 ACSR	7.31Y	121.8	0.00	3.20	4.41	3	31	9	96	0.00	0.0	4.908	0.015	0	0	0	3
PL.40924	PL.40923	C	#2 ACSR	7.31Y	121.8	0.00	3.21	4.41	3	31	9	96	0.00	0.0	4.957	0.048	31	9	3	3
PL.40476	PL.40763	C	6 A (CWC)	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	4.820	0.006	0	0	0	0
PD.6364	PL.40476	C	75QA	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	4.820	0.006	0	0	0	0
PL.40477	PD.6364	C	6 A (CWC)	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	4.905	0.084	0	0	0	0
PL.40011	PL.40144	B	6 A (CWC)	7.32Y	121.9	0.00	3.05	0.43	0	3	1	95	0.00	0.0	4.416	0.006	0	0	0	1
PD.6268	PL.40011	B	75QA	7.32Y	121.9	0.00	3.05	0.43	1	3	1	95	0.00	0.0	4.416	0.006	0	0	0	1
PL.40760	PD.6268	B	6 A (CWC)	7.32Y	121.9	0.00	3.06	0.43	0	3	1	95	0.00	0.0	4.606	0.190	0	0	0	1
PL.40761	PL.40760	B	6 A (CWC)	7.32Y	121.9	0.00	3.06	0.43	0	3	1	95	0.00	0.0	4.880	0.274	3	1	1	1
PL.39681	PL.40314	C	6 A (CWC)	7.32Y	122.0	0.00	3.01	3.84	3	27	8	96	0.00	0.0	4.302	0.001	0	0	0	5
PD.6385	PL.39681	C	50L	7.32Y	122.0	0.00	3.01	3.84	8	27	8	96	0.00	0.0	4.302	0.001	0	0	0	5
PL.40577	PD.6385	C	6 A (CWC)	7.32Y	122.0	0.01	3.03	3.84	3	27	8	96	0.00	0.0	4.386	0.084	11	3	1	5
PL.40736	PL.40577	C	6 A (CWC)	7.32Y	121.9	0.03	3.05	2.22	2	16	5	95	0.00	0.0	4.661	0.276	0	0	0	4
PL.40737	PL.40736	C	6 A (CWC)	7.32Y	121.9	0.01	3.06	2.22	2	16	5	95	0.00	0.0	4.765	0.104	15	4	1	4
PL.39661	PL.40737	C	6 A (CWC)	7.32Y	121.9	0.00	3.06	0.07	0	0	0	100	0.00	0.0	4.919	0.154	0	0	2	3
PL.40747	PL.39661	C	6 A (CWC)	7.32Y	121.9	0.00	3.06	0.03	0	0	0	100	0.00	0.0	4.991	0.072	0	0	1	1

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40748	PL.40747	C	6 A (CWC)	7.32Y	121.9	0.00	3.06	0.00	0	0	0	100	0.00	0.0	5.179	0.189	0	0	0	0
PL.40006	PL.40748	C	6 A (CWC)	7.32Y	121.9	0.00	3.06	0.00	0	0	0	100	0.00	0.0	5.330	0.151	0	0	0	0
PL.40387	PL.40736	C	#4 ACSR	7.32Y	121.9	0.00	3.05	0.00	0	0	0	100	0.00	0.0	4.718	0.057	0	0	0	0
PL.40731	PL.40341	B	#4 ACSR	7.34Y	122.4	0.00	2.62	1.12	1	8	2	97	0.00	0.0	3.473	0.006	0	0	0	2
PD.6307	PL.40731	B	25T	7.34Y	122.4	0.00	2.62	1.12	0	8	2	97	0.00	0.0	3.473	0.006	0	0	0	2
PL.40732	PD.6307	B	#4 ACSR	7.34Y	122.4	0.00	2.62	1.12	1	8	2	97	0.00	0.0	3.490	0.017	0	0	0	2
PL.40739	PL.40732	B	#4 ACSR	7.34Y	122.4	0.00	2.62	1.12	1	8	2	97	0.00	0.0	3.525	0.035	2	0	1	2
PL.40740	PL.40739	B	#4 ACSR	7.34Y	122.4	0.00	2.62	0.89	1	6	2	95	0.00	0.0	3.605	0.081	6	2	1	1
PL.40764	PL.40732	B	6 A (CWC)	7.34Y	122.4	0.00	2.62	0.00	0	0	0	100	0.00	0.0	3.524	0.034	0	0	0	0
PL.40729	PL.40340	C	#4 ACSR	7.35Y	122.4	0.00	2.58	3.71	3	26	8	96	0.00	0.0	3.400	0.006	0	0	0	2
PD.6308	PL.40729	C	75QA	7.35Y	122.4	0.00	2.58	3.71	5	26	8	96	0.00	0.0	3.400	0.006	0	0	0	2
PL.40730	PD.6308	C	#4 ACSR	7.34Y	122.4	0.00	2.59	3.71	3	26	8	96	0.00	0.0	3.459	0.060	26	8	2	2
PL.40687	PL.40339	C	#4 ACSR	7.35Y	122.5	0.00	2.48	1.75	1	12	4	95	0.00	0.0	3.199	0.006	0	0	0	1
PD.6309	PL.40687	C	75QA	7.35Y	122.5	0.00	2.48	1.75	2	12	4	95	0.00	0.0	3.199	0.006	0	0	0	1
PL.40688	PD.6309	C	#4 ACSR	7.35Y	122.5	0.01	2.49	1.75	1	12	4	95	0.00	0.0	3.371	0.172	12	4	1	1
PL.40012	PL.40176	ABC	336 MCM AC	7.36Y	122.6	0.01	2.41	24.71	5	523	153	96	0.03	0.0	3.098	0.064	0	0	0	79
PL.40400	PL.40012	ABC	#1/0 ACSR	7.36Y	122.6	0.00	2.41	24.71	11	523	153	96	0.01	0.0	3.103	0.006	0	0	0	79
PD.6115-A	PL.40400	ABC	Closed	7.36Y	122.6	0.00	2.41	24.71	0	523	153	96	0.00	0.0	3.103	0.006	0	0	0	79
PD.6115-B	PD.6115-A	ABC	Closed	7.36Y	122.6	0.00	2.41	24.71	0	523	153	96	0.00	0.0	3.103	0.006	0	0	0	79
PL.63363	PD.6115-B	ABC	#1/0 ACSR	7.35Y	122.6	0.01	2.42	24.71	11	523	153	96	0.03	0.0	3.125	0.021	0	0	0	79
PL.63364	PL.63363	ABC	#1/0 ACSR	7.35Y	122.6	0.00	2.42	24.71	11	523	153	96	0.00	0.0	3.125	0.000	0	0	0	79
PL.63365	PL.63364	ABC	#1/0 ACSR	7.34Y	122.4	0.17	2.60	24.22	11	513	150	96	0.62	0.1	3.520	0.395	0	0	0	78
PL.40562	PL.63365	ABC	#1/0 ACSR	7.34Y	122.4	0.02	2.61	15.38	7	325	95	96	0.04	0.0	3.577	0.057	0	0	0	53
PL.40398	PL.40562	ABC	#1/0 ACSR	7.34Y	122.4	0.00	2.61	15.38	7	325	95	96	0.00	0.0	3.583	0.006	0	0	0	53
PD.6387	PL.40398	ABC	50L	7.34Y	122.4	0.00	2.61	15.38	31	325	95	96	0.00	0.0	3.583	0.006	0	0	0	53
PL.60686	PD.6387	ABC	#1/0 ACSR	7.34Y	122.3	0.04	2.65	15.38	7	325	95	96	0.09	0.0	3.730	0.147	11	3	1	53
PL.60687	PL.60686	ABC	#1/0 ACSR	7.34Y	122.3	0.06	2.72	14.86	6	314	92	96	0.14	0.0	3.970	0.240	0	0	0	52
PL.40022	PL.60687	ABC	#1/0 ACSR	7.34Y	122.3	0.03	2.75	14.86	6	314	91	96	0.07	0.0	4.081	0.111	0	0	0	52
PL.40023	PL.40022	ABC	#1/0 ACSR	7.33Y	122.2	0.03	2.77	13.77	6	291	85	96	0.05	0.0	4.189	0.108	0	0	1	50
PL.40024	PL.40023	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.78	13.76	6	291	85	96	0.02	0.0	4.225	0.036	0	0	0	49
PL.39674	PL.40024	A	#1/0 ACSR	7.33Y	122.2	0.00	2.79	12.07	5	85	25	96	0.00	0.0	4.230	0.006	0	0	0	13

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.6325	PL.39674	A	30T	7.33Y	122.2	0.00	2.79	12.07	0	85	25	96	0.00	0.0	4.230	0.006	0	0	0	13
PL.41051	PD.6325	A	#1/0 ACSR	7.33Y	122.2	0.02	2.81	12.07	5	85	25	96	0.01	0.0	4.306	0.076	10	3	1	13
PL.39671	PL.41051	A	#1/0 ACSR	7.33Y	122.2	0.02	2.83	10.58	5	75	22	96	0.01	0.0	4.401	0.095	0	0	0	12
PL.39672	PL.39671	A	#1/0 ACSR	7.33Y	122.1	0.04	2.87	9.35	4	66	19	96	0.02	0.0	4.592	0.191	0	0	0	11
PL.40383	PL.39672	A	#1/0 ACSR	7.33Y	122.1	0.01	2.88	6.93	3	49	14	96	0.00	0.0	4.629	0.038	9	3	2	9
PL.40252	PL.40383	A	#1/0 ACSR	7.33Y	122.1	0.01	2.88	5.63	2	40	11	96	0.00	0.0	4.685	0.055	12	4	1	7
PL.40253	PL.40252	A	#1/0 ACSR	7.33Y	122.1	0.01	2.89	3.91	2	27	8	96	0.00	0.0	4.744	0.059	0	0	0	6
PL.40228	PL.40253	A	#1/0 ACSR	7.33Y	122.1	0.00	2.89	0.01	0	0	0	100	0.00	0.0	4.767	0.023	0	0	1	1
PL.40254	PL.40253	A	#1/0 ACSR	7.33Y	122.1	0.01	2.90	3.90	2	27	8	96	0.00	0.0	4.859	0.115	3	1	3	5
PL.60827	PL.40254	A	#1/0 ACSR	7.33Y	122.1	0.00	2.90	3.40	1	24	7	96	0.00	0.0	4.895	0.037	0	0	0	2
PL.63144	PL.60827	A	6 A (CWC)	7.33Y	122.1	0.00	2.90	2.44	2	17	5	96	0.00	0.0	4.936	0.041	0	0	0	1
PL.63145	PL.63144	A	6 A (CWC)	7.33Y	122.1	0.00	2.90	2.44	2	17	5	96	0.00	0.0	4.936	0.000	17	5	1	1
PL.60828	PL.60827	A	#1/0 ACSR	7.33Y	122.1	0.00	2.90	0.96	0	7	2	96	0.00	0.0	4.928	0.033	0	0	0	1
PL.60829	PL.60828	A	#1/0 ACSR	7.33Y	122.1	0.00	2.90	0.96	0	7	2	96	0.00	0.0	5.025	0.097	7	2	1	1
PL.40738	PL.39672	A	6 A (CWC)	7.33Y	122.1	0.01	2.88	2.42	2	17	5	96	0.00	0.0	4.681	0.089	11	3	1	2
PL.40382	PL.40738	A	6 A (CWC)	7.33Y	122.1	0.00	2.88	0.90	1	6	2	95	0.00	0.0	4.723	0.042	6	2	1	1
PL.40749	PL.39671	A	#1/0 ACSR	7.33Y	122.2	0.00	2.83	1.23	1	9	3	95	0.00	0.0	4.472	0.071	9	3	1	1
PL.40190	PL.40024	ABC	#1/0 ACSR	7.33Y	122.2	0.03	2.82	9.74	4	206	60	96	0.05	0.0	4.418	0.193	0	0	0	36
PL.40260	PL.40190	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.83	9.39	4	198	58	96	0.02	0.0	4.485	0.066	0	0	0	34
PL.40261	PL.40260	ABC	#1/0 ACSR	7.33Y	122.1	0.04	2.86	9.17	4	194	56	96	0.05	0.0	4.699	0.214	0	0	0	33
PL.40416	PL.40261	ABC	#1/0 ACSR	7.33Y	122.1	0.03	2.89	9.17	4	194	56	96	0.04	0.0	4.855	0.157	0	0	0	32
PL.40417	PL.40416	A	6 A (CWC)	7.33Y	122.1	0.00	2.89	0.14	0	1	0	100	0.00	0.0	4.861	0.006	0	0	0	1
PD.6237	PL.40417	A	25QA	7.33Y	122.1	0.00	2.89	0.14	1	1	0	100	0.00	0.0	4.861	0.006	0	0	0	1
PL.40418	PD.6237	A	6 A (CWC)	7.33Y	122.1	0.00	2.89	0.14	0	1	0	100	0.00	0.0	5.038	0.177	1	0	1	1
PL.40419	PL.40416	A	6 A (CWC)	7.33Y	122.1	0.00	2.89	1.05	1	7	2	96	0.00	0.0	4.861	0.006	0	0	0	1
PD.6324	PL.40419	A	25QA	7.33Y	122.1	0.00	2.89	1.05	4	7	2	96	0.00	0.0	4.861	0.006	0	0	0	1
PL.40420	PD.6324	A	6 A (CWC)	7.33Y	122.1	0.00	2.89	1.05	1	7	2	96	0.00	0.0	4.945	0.084	7	2	1	1
PL.40421	PL.40416	ABC	#1/0 ACSR	7.33Y	122.1	0.02	2.91	8.78	4	185	54	96	0.02	0.0	4.957	0.102	7	2	1	30
PL.40422	PL.40421	ABC	#1/0 ACSR	7.32Y	122.1	0.01	2.92	8.42	4	178	52	96	0.02	0.0	5.050	0.092	0	0	0	29
PL.40423	PL.40422	ABC	#1/0 ACSR	7.32Y	122.1	0.01	2.93	8.42	4	178	52	96	0.01	0.0	5.098	0.049	0	0	0	29
PL.39649	PL.40423	ABC	#1/0 ACSR	7.32Y	122.0	0.03	2.96	7.71	3	163	47	96	0.04	0.0	5.323	0.224	0	0	0	28

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62429	PL.39649	ABC	#1/0 ACSR	7.32Y	122.0	0.03	2.99	7.54	3	159	46	96	0.03	0.0	5.542	0.219	0	0	0	27
PL.62430	PL.62429	A	6 A (CWC)	7.32Y	122.0	0.00	2.99	1.98	1	14	4	96	0.00	0.0	5.547	0.006	0	0	0	1
PD.9335	PL.62430	A	40QA	7.32Y	122.0	0.00	2.99	1.98	5	14	4	96	0.00	0.0	5.547	0.006	0	0	0	1
PL.39653	PD.9335	A	6 A (CWC)	7.32Y	122.0	0.00	2.99	1.98	1	14	4	96	0.00	0.0	5.587	0.040	14	4	1	1
PL.52042	PL.39653	A	6 A (CWC)	7.32Y	122.0	0.00	2.99	0.00	0	0	0	100	0.00	0.0	5.594	0.007	0	0	0	0
PD.8022-A	PL.52042	A	Open	7.32Y	122.0	0.00	2.99	0.00	0	0	0	100	0.00	0.0	5.594	0.007	0	0	0	0
PL.62849	PL.62429	C	6 A (CWC)	7.32Y	122.0	0.01	3.00	20.64	15	145	42	96	0.01	0.0	5.548	0.006	0	0	0	26
PD.9434	PL.62849	C	35L	7.32Y	122.0	0.00	3.00	20.64	59	145	42	96	0.00	0.0	5.548	0.006	0	0	0	26
PL.62852	PD.9434	C	6 A (CWC)	7.32Y	122.0	0.02	3.02	20.64	15	145	42	96	0.02	0.0	5.572	0.024	0	0	0	26
PL.62854	PL.62852	C	#2 ACSR	7.32Y	122.0	0.00	3.02	1.07	1	8	2	97	0.00	0.0	5.601	0.029	8	2	3	3
PL.62851	PL.62852	C	6 A (CWC)	7.29Y	121.5	0.45	3.47	19.57	14	138	40	96	0.46	0.3	6.085	0.513	6	2	1	23
PL.62850	PL.62851	C	6 A (CWC)	7.29Y	121.4	0.08	3.55	6.54	5	46	13	96	0.03	0.1	6.362	0.277	0	0	0	6
PL.64554	PL.62850	C	6 A (CWC)	7.29Y	121.4	0.00	3.55	0.00	0	0	0	100	0.00	0.0	6.403	0.041	0	0	0	0
PL.64555	PL.64554	C	6 A (CWC)	7.29Y	121.4	0.00	3.55	0.00	0	0	0	100	0.00	0.0	6.403	0.000	0	0	0	0
PL.40711	PL.62850	C	6 A (CWC)	7.29Y	121.4	0.03	3.58	6.54	5	46	13	96	0.01	0.0	6.457	0.094	0	0	0	6
PL.40714	PL.40711	C	6 A (CWC)	7.28Y	121.4	0.01	3.59	4.66	3	33	9	96	0.00	0.0	6.540	0.084	18	5	2	4
PL.39667	PL.40714	C	6 A (CWC)	7.28Y	121.4	0.02	3.61	2.08	1	15	4	97	0.00	0.0	6.701	0.161	0	0	0	2
PL.39668	PL.39667	C	6 A (CWC)	7.28Y	121.4	0.01	3.62	1.13	1	8	2	97	0.00	0.0	6.963	0.262	8	2	1	1
PL.39669	PL.39667	C	6 A (CWC)	7.28Y	121.4	0.00	3.61	0.96	1	7	2	96	0.00	0.0	6.759	0.058	7	2	1	1
PL.39670	PL.39669	C	6 A (CWC)	7.28Y	121.4	0.00	3.61	0.00	0	0	0	100	0.00	0.0	6.864	0.105	0	0	0	0
PL.40712	PL.40711	C	6 A (CWC)	7.28Y	121.4	0.00	3.59	1.89	1	13	4	96	0.00	0.0	6.513	0.057	0	0	0	2
PL.40229	PL.40712	C	6 A (CWC)	7.28Y	121.4	0.00	3.59	1.24	1	9	3	95	0.00	0.0	6.592	0.078	9	3	1	1
PL.40713	PL.40712	C	6 A (CWC)	7.28Y	121.4	0.00	3.59	0.65	0	5	1	98	0.00	0.0	6.586	0.073	5	1	1	1
PL.62853	PL.62851	C	6 A (CWC)	7.29Y	121.5	0.00	3.47	12.10	9	85	25	96	0.00	0.0	6.089	0.003	0	0	0	16
PD.8651	PL.62853	C	25QA	7.29Y	121.5	0.00	3.47	12.10	48	85	25	96	0.00	0.0	6.089	0.003	0	0	0	16
PL.58810	PD.8651	C	#1/0 ACSR	7.29Y	121.5	0.04	3.52	12.10	5	85	25	96	0.02	0.0	6.245	0.156	0	0	0	16
PL.58811	PL.58810	C	#2 ACSR	7.29Y	121.5	0.00	3.52	1.82	1	13	4	96	0.00	0.0	6.248	0.004	0	0	0	2
PD.8652	PL.58811	C	10QA	7.29Y	121.5	0.00	3.52	1.82	0	13	4	96	0.00	0.0	6.248	0.004	0	0	0	2
PL.58812	PD.8652	C	#2 ACSR	7.29Y	121.5	0.00	3.52	1.82	1	13	4	96	0.00	0.0	6.277	0.028	13	4	2	2
PL.58813	PL.58810	C	#1/0 ACSR	7.29Y	121.5	0.00	3.52	3.05	1	21	6	96	0.00	0.0	6.248	0.003	0	0	0	4
PD.8653	PL.58813	C	10QA	7.29Y	121.5	0.00	3.52	3.05	0	21	6	96	0.00	0.0	6.248	0.003	0	0	0	4

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.58814	PD.8653	C	#1/0 ACSR	7.29Y	121.5	0.00	3.52	3.05	1	21	6	96	0.00	0.0	6.301	0.052	10	3	2	4
PL.58820	PL.58814	C	#1/0 ACSR	7.29Y	121.5	0.00	3.52	1.62	1	11	3	96	0.00	0.0	6.377	0.077	11	3	2	2
PL.58815	PL.58810	C	#1/0 ACSR	7.29Y	121.5	0.01	3.53	7.23	3	51	15	96	0.00	0.0	6.325	0.080	14	4	2	10
PL.58816	PL.58815	C	#2 ACSR	7.29Y	121.5	0.00	3.53	0.52	0	4	1	97	0.00	0.0	6.329	0.004	0	0	0	1
PD.8654	PL.58816	C	10T	7.29Y	121.5	0.00	3.53	0.52	0	4	1	97	0.00	0.0	6.329	0.004	0	0	0	1
PL.58817	PD.8654	C	#2 ACSR	7.29Y	121.5	0.00	3.53	0.52	0	4	1	97	0.00	0.0	6.366	0.037	4	1	1	1
PL.58818	PL.58815	C	#1/0 ACSR	7.29Y	121.5	0.00	3.53	0.58	0	4	1	97	0.00	0.0	6.352	0.027	0	0	0	2
PD.8655	PL.58818	C	10T	7.29Y	121.5	0.00	3.53	0.58	0	4	1	97	0.00	0.0	6.352	0.027	0	0	0	2
PL.58819	PD.8655	C	#1/0 ACSR	7.29Y	121.5	0.00	3.53	0.58	0	4	1	97	0.00	0.0	6.387	0.035	0	0	0	2
PL.58821	PL.58819	C	#1/0 ACSR	7.29Y	121.5	0.00	3.53	0.34	0	2	1	89	0.00	0.0	6.433	0.045	2	1	1	1
PL.58822	PL.58819	C	#1/0 ACSR	7.29Y	121.5	0.00	3.53	0.24	0	2	0	100	0.00	0.0	6.583	0.196	2	0	1	1
PL.58823	PL.58815	C	#1/0 ACSR	7.29Y	121.5	0.01	3.53	4.14	2	29	8	96	0.00	0.0	6.424	0.099	15	4	3	5
PL.58749	PL.58823	C	#1/0 ACSR	7.29Y	121.5	0.00	3.54	2.05	1	14	4	96	0.00	0.0	6.474	0.049	0	0	0	2
PL.58750	PL.58749	C	#1/0 ACSR	7.29Y	121.5	0.00	3.54	1.01	0	7	2	96	0.00	0.0	6.477	0.004	0	0	0	1
PD.8656	PL.58750	C	10QA	7.29Y	121.5	0.00	3.54	1.01	0	7	2	96	0.00	0.0	6.477	0.004	0	0	0	1
PL.58751	PD.8656	C	#1/0 ACSR	7.29Y	121.5	0.00	3.54	1.01	0	7	2	96	0.00	0.0	6.540	0.063	7	2	1	1
PL.58752	PL.58749	C	#1/0 ACSR	7.29Y	121.5	0.00	3.54	1.03	0	7	2	96	0.00	0.0	6.724	0.250	7	2	1	1
PL.40308	PL.39649	C	#1/0 ACSR	7.32Y	122.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	5.354	0.031	0	0	0	0
PL.39650	PL.39649	A	#1/0 ACSR	7.32Y	122.0	0.00	2.96	0.50	0	3	1	95	0.00	0.0	5.328	0.006	0	0	0	1
PD.6371	PL.39650	A	25QA	7.32Y	122.0	0.00	2.96	0.50	2	3	1	95	0.00	0.0	5.328	0.006	0	0	0	1
PL.39651	PD.6371	A	#1/0 ACSR	7.32Y	122.0	0.00	2.96	0.50	0	3	1	95	0.00	0.0	5.408	0.080	3	1	1	1
PL.39652	PL.39651	A	#1/0 ACSR	7.32Y	122.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	5.472	0.063	0	0	0	0
PL.40424	PL.40423	C	#2 ACSR	7.32Y	122.1	0.00	2.93	2.15	1	15	4	97	0.00	0.0	5.104	0.006	0	0	0	1
PD.6336	PL.40424	C	25QA	7.32Y	122.1	0.00	2.93	2.15	9	15	4	97	0.00	0.0	5.104	0.006	0	0	0	1
PL.40425	PD.6336	C	#2 ACSR	7.32Y	122.1	0.00	2.93	2.15	1	15	4	97	0.00	0.0	5.142	0.038	0	0	0	1
PL.40426	PL.40425	C	#2 ACSR	7.32Y	122.1	0.00	2.93	2.15	1	15	4	97	0.00	0.0	5.239	0.097	15	4	1	1
PL.40157	PL.40261	A	#1/0 ACSR	7.33Y	122.1	0.00	2.86	0.00	0	0	0	100	0.00	0.0	4.704	0.006	0	0	0	1
PD.6238	PL.40157	A	25QA	7.33Y	122.1	0.00	2.86	0.00	0	0	0	100	0.00	0.0	4.704	0.006	0	0	0	1
PL.40415	PD.6238	A	#1/0 ACSR	7.33Y	122.1	0.00	2.86	0.00	0	0	0	100	0.00	0.0	4.777	0.073	0	0	1	1
PL.40257	PL.40260	A	#1/0 ACSR	7.33Y	122.2	0.00	2.83	0.64	0	5	1	98	0.00	0.0	4.490	0.006	0	0	0	1
PD.6239	PL.40257	A	25QA	7.33Y	122.2	0.00	2.83	0.64	3	5	1	98	0.00	0.0	4.490	0.006	0	0	0	1

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40258	PD.6239	A	#1/0 ACSR	7.33Y	122.2	0.00	2.83	0.64	0	5	1	98	0.00	0.0	4.544	0.054	5	1	1	1
PL.40259	PL.40258	A	#1/0 ACSR	7.33Y	122.2	0.00	2.83	0.00	0	0	0	100	0.00	0.0	4.649	0.105	0	0	0	0
PL.40025	PL.40190	A	#1/0 ACSR	7.33Y	122.2	0.00	2.82	1.06	0	7	2	96	0.00	0.0	4.424	0.006	0	0	0	2
PD.6260	PL.40025	A	40QA	7.33Y	122.2	0.00	2.82	1.06	3	7	2	96	0.00	0.0	4.424	0.006	0	0	0	2
PL.40026	PD.6260	A	#1/0 ACSR	7.33Y	122.2	0.00	2.82	1.06	0	7	2	96	0.00	0.0	4.437	0.013	0	0	0	2
PL.40027	PL.40026	A	#1/0 ACSR	7.33Y	122.2	0.00	2.82	1.06	0	7	2	96	0.00	0.0	4.561	0.124	7	2	2	2
PL.40701	PL.40026	A	6 A (CWC)	7.33Y	122.2	0.00	2.82	0.00	0	0	0	100	0.00	0.0	4.535	0.098	0	0	0	0
PL.40020	PL.40022	A	6 A (CWC)	7.34Y	122.3	0.00	2.75	3.25	2	23	7	96	0.00	0.0	4.087	0.006	0	0	0	2
PD.6261	PL.40020	A	40QA	7.34Y	122.3	0.00	2.75	3.25	8	23	7	96	0.00	0.0	4.087	0.006	0	0	0	2
PL.40021	PD.6261	A	6 A (CWC)	7.33Y	122.2	0.02	2.77	3.25	2	23	7	96	0.00	0.0	4.348	0.261	23	7	2	2
PL.40399	PL.63365	B	6 A (CWC)	7.34Y	122.4	0.01	2.60	26.52	19	187	55	96	0.01	0.0	3.526	0.006	0	0	0	25
PD.6388	PL.40399	B	50L	7.34Y	122.4	0.00	2.60	26.52	53	187	54	96	0.00	0.0	3.526	0.006	0	0	0	25
PL.40401	PD.6388	B	6 A (CWC)	7.34Y	122.3	0.14	2.74	26.52	19	187	54	96	0.19	0.1	3.639	0.113	7	2	1	25
PL.40017	PL.40401	B	6 A (CWC)	7.33Y	122.1	0.17	2.90	25.51	18	180	52	96	0.22	0.1	3.781	0.141	0	0	0	24
PL.40734	PL.40017	B	6 A (CWC)	7.33Y	122.1	0.00	2.90	1.17	1	8	2	97	0.00	0.0	3.834	0.054	8	2	1	1
PL.40018	PL.40017	B	6 A (CWC)	7.32Y	122.0	0.07	2.97	24.34	17	171	50	96	0.08	0.0	3.840	0.059	0	0	0	23
PL.60739	PL.40018	B	#4 ACSR	7.32Y	122.0	0.01	2.98	3.41	3	24	7	96	0.00	0.0	3.925	0.085	24	7	4	4
PL.40019	PL.40018	B	6 A (CWC)	7.31Y	121.8	0.24	3.21	20.93	15	147	43	96	0.26	0.2	4.093	0.253	7	2	1	19
PL.40245	PL.40019	B	6 A (CWC)	7.30Y	121.7	0.13	3.34	14.02	10	98	29	96	0.10	0.1	4.294	0.201	0	0	0	13
PL.40337	PL.40245	B	#2 ACSR	7.30Y	121.7	0.01	3.35	5.25	3	37	11	96	0.00	0.0	4.365	0.071	0	0	0	5
PL.40246	PL.40337	B	6 A (CWC)	7.30Y	121.7	0.00	3.35	0.51	0	4	1	97	0.00	0.0	4.530	0.165	4	1	1	1
PL.40338	PL.40337	B	#2 ACSR	7.30Y	121.6	0.01	3.36	4.74	3	33	10	96	0.00	0.0	4.515	0.150	23	7	3	4
PL.40404	PL.40338	B	6 A (CWC)	7.30Y	121.6	0.01	3.37	1.46	1	10	3	96	0.00	0.0	4.603	0.088	0	0	0	1
PL.40405	PL.40404	B	6 A (CWC)	7.30Y	121.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	4.774	0.171	0	0	0	0
PL.40244	PL.40405	B	#2 ACSR	7.30Y	121.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	4.824	0.050	0	0	0	0
PL.40406	PL.40405	B	6 A (CWC)	7.30Y	121.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	5.022	0.248	0	0	0	0
PL.40300	PL.40404	B	#4 ACSR	7.30Y	121.6	0.00	3.37	1.46	1	10	3	96	0.00	0.0	4.668	0.065	10	3	1	1
PL.40694	PL.40245	B	#2 ACSR	7.30Y	121.6	0.05	3.39	8.77	5	61	18	96	0.02	0.0	4.525	0.232	19	5	1	8
PL.40695	PL.40694	B	6 A (CWC)	7.30Y	121.6	0.02	3.41	6.07	4	43	12	96	0.01	0.0	4.606	0.081	0	0	0	7
PL.40725	PL.40695	B	6 A (CWC)	7.29Y	121.6	0.02	3.44	4.80	3	34	10	96	0.01	0.0	4.707	0.101	0	0	0	6
PL.40726	PL.40725	B	6 A (CWC)	7.29Y	121.6	0.00	3.44	2.24	2	16	5	95	0.00	0.0	4.749	0.042	0	0	0	4

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.60649	PL.40726	B	#1/0 ACSR	7.29Y	121.6	0.00	3.44	1.38	1	10	3	96	0.00	0.0	4.791	0.042	10	3	3	3
PL.63370	PL.40726	B	#1/0 ACSR	7.29Y	121.6	0.00	3.44	0.86	0	6	2	95	0.00	0.0	4.806	0.057	6	2	1	1
PL.40814	PL.40725	B	#4 ACSR	7.29Y	121.6	0.00	3.44	2.55	2	18	5	96	0.00	0.0	4.738	0.032	11	3	1	2
PL.40815	PL.40814	B	#4 ACSR	7.29Y	121.6	0.00	3.44	1.02	1	7	2	96	0.00	0.0	4.809	0.070	7	2	1	1
PL.40806	PL.40695	B	6 A (CWC)	7.30Y	121.6	0.00	3.41	1.27	1	9	3	95	0.00	0.0	4.637	0.031	9	3	1	1
PL.40304	PL.40019	B	6 A (CWC)	7.30Y	121.7	0.08	3.29	5.94	4	42	12	96	0.03	0.1	4.397	0.305	0	0	1	5
PL.40305	PL.40304	B	6 A (CWC)	7.30Y	121.7	0.03	3.31	5.92	4	42	12	96	0.01	0.0	4.490	0.093	0	0	0	4
PL.40582	PL.40305	B	6 A (CWC)	7.30Y	121.7	0.03	3.34	2.13	2	15	4	97	0.00	0.0	4.796	0.306	0	0	0	1
PL.40583	PL.40582	B	6 A (CWC)	7.30Y	121.7	0.00	3.35	2.13	2	15	4	97	0.00	0.0	4.849	0.053	15	4	1	1
PL.40584	PL.40582	B	#4 ACSR	7.30Y	121.7	0.00	3.34	0.00	0	0	0	100	0.00	0.0	4.836	0.040	0	0	0	0
PL.40585	PL.40584	B	#4 ACSR	7.30Y	121.7	0.00	3.34	0.00	0	0	0	100	0.00	0.0	4.963	0.128	0	0	0	0
PL.40306	PL.40305	B	6 A (CWC)	7.30Y	121.7	0.01	3.33	3.79	3	27	8	96	0.00	0.0	4.597	0.107	15	4	1	3
PL.40283	PL.40306	B	#4 ACSR	7.30Y	121.7	0.00	3.33	1.56	1	11	3	96	0.00	0.0	4.666	0.069	11	3	1	1
PL.40388	PL.40306	B	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	4.732	0.135	0	0	0	0
PL.40179	PL.40306	B	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.09	0	1	0	100	0.00	0.0	4.687	0.090	0	0	0	1
PL.40580	PL.40179	B	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	4.693	0.006	0	0	0	0
PD.6321	PL.40580	B	40QA	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	4.693	0.006	0	0	0	0
PL.40581	PD.6321	B	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	4.748	0.055	0	0	0	0
PL.40180	PL.40179	B	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.09	0	1	0	100	0.00	0.0	4.693	0.006	0	0	0	1
PD.6322	PL.40180	B	10QA	7.30Y	121.7	0.00	3.33	0.09	0	1	0	100	0.00	0.0	4.693	0.006	0	0	0	1
PL.40181	PD.6322	B	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.09	0	1	0	100	0.00	0.0	4.723	0.030	1	0	1	1
PL.63366	PL.63364	B	#1/0 ACSR	7.35Y	122.6	0.00	2.42	1.47	1	10	3	96	0.00	0.0	3.129	0.004	0	0	0	1
PD.9416	PL.63366	B	10T	7.35Y	122.6	0.00	2.42	1.47	0	10	3	96	0.00	0.0	3.129	0.004	0	0	0	1
PL.63367	PD.9416	B	#1/0 ACSR	7.35Y	122.6	0.00	2.42	1.47	1	10	3	96	0.00	0.0	3.200	0.071	10	3	1	1
CP.91	PL.60682	ABC	Cap (300)	7.36Y	122.7	0.00	2.31	0.00	0	0	0	100	0.00	0.0	2.865	0.071	0	0	0	0
PL.60684	PL.60683	C	#4 ACSR	7.37Y	122.8	0.00	2.17	6.89	5	49	14	96	0.00	0.0	2.573	0.006	0	0	0	7
PD.6235	PL.60684	C	75QA	7.37Y	122.8	0.00	2.17	6.89	9	49	14	96	0.00	0.0	2.573	0.006	0	0	0	7
PL.40218	PD.6235	C	#4 ACSR	7.37Y	122.8	0.03	2.19	6.89	5	49	14	96	0.01	0.0	2.681	0.108	15	4	2	7
PL.40219	PL.40218	C	#4 ACSR	7.37Y	122.8	0.00	2.20	4.83	4	34	10	96	0.00	0.0	2.701	0.020	0	0	0	5
PL.40220	PL.40219	C	#4 ACSR	7.37Y	122.8	0.00	2.20	1.32	1	9	3	95	0.00	0.0	2.747	0.046	0	0	1	2
PL.40221	PL.40220	C	#4 ACSR	7.37Y	122.8	0.00	2.20	1.30	1	9	3	95	0.00	0.0	2.789	0.042	9	3	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40222	PL.40219	C	6 A (CWC)	7.37Y	122.8	0.03	2.23	3.51	3	25	7	96	0.00	0.0	2.888	0.187	5	1	1	3
PL.40223	PL.40222	C	6 A (CWC)	7.37Y	122.8	0.01	2.23	2.82	2	20	6	96	0.00	0.0	2.957	0.069	13	4	1	2
PL.40334	PL.40223	C	6 A (CWC)	7.37Y	122.8	0.00	2.23	0.99	1	7	2	96	0.00	0.0	3.014	0.057	7	2	1	1
PL.40192	PL.40217	A	#2 ACSR	7.37Y	122.9	0.00	2.12	0.16	0	1	0	100	0.00	0.0	2.541	0.057	1	0	1	1
PL.63078	PL.40215	A	#4 ACSR	7.38Y	122.9	0.00	2.06	0.06	0	0	0	100	0.00	0.0	2.412	0.045	0	0	1	1
PL.63079	PL.63078	A	#4 ACSR	7.38Y	122.9	0.00	2.06	0.00	0	0	0	100	0.00	0.0	2.444	0.032	0	0	0	0
PL.40503	PL.40502	ABC	336 MCM AC	7.38Y	123.0	0.00	1.99	37.43	7	794	237	96	0.01	0.0	2.239	0.006	0	0	0	108
PD.6383	PL.40503	ABC	70L	7.38Y	123.0	0.00	1.99	37.43	53	794	237	96	0.00	0.0	2.239	0.006	0	0	0	108
PL.40504	PD.6383	ABC	336 MCM AC	7.37Y	122.9	0.10	2.09	37.43	7	794	237	96	0.42	0.1	2.600	0.361	7	2	1	108
PL.40439	PL.40504	ABC	336 MCM AC	7.37Y	122.8	0.11	2.20	35.70	7	757	225	96	0.42	0.1	3.004	0.404	21	6	4	104
PL.40440	PL.40439	ABC	336 MCM AC	7.37Y	122.8	0.04	2.23	34.69	7	735	218	96	0.14	0.0	3.142	0.138	0	0	0	100
PL.63343	PL.40440	C	#2 ACSR	7.37Y	122.8	0.00	2.24	1.27	1	9	3	95	0.00	0.0	3.187	0.045	0	0	0	1
PL.63344	PL.63343	C	#1/0 ACSR	7.37Y	122.8	0.00	2.24	1.27	1	9	3	95	0.00	0.0	3.214	0.026	9	3	1	1
PL.40441	PL.40440	ABC	336 MCM AC	7.36Y	122.7	0.02	2.25	34.27	7	726	215	96	0.07	0.0	3.217	0.075	0	0	0	99
PL.40442	PL.40441	ABC	336 MCM AC	7.36Y	122.7	0.03	2.29	33.62	6	712	211	96	0.13	0.0	3.354	0.136	0	0	0	96
PL.39683	PL.40442	A	6 A (CWC)	7.36Y	122.7	0.00	2.29	9.27	7	66	19	96	0.00	0.0	3.359	0.006	0	0	0	14
PD.6323	PL.39683	A	25QA	7.36Y	122.7	0.00	2.29	9.27	37	66	19	96	0.00	0.0	3.359	0.006	0	0	0	14
PL.40881	PD.6323	A	6 A (CWC)	7.36Y	122.7	0.03	2.32	9.27	7	66	19	96	0.01	0.0	3.430	0.071	10	3	1	14
PL.40882	PL.40881	A	6 A (CWC)	7.36Y	122.6	0.09	2.41	7.88	6	56	16	96	0.04	0.1	3.673	0.242	0	0	0	13
PL.40883	PL.40882	A	#4 ACSR	7.36Y	122.6	0.00	2.41	0.26	0	2	1	89	0.00	0.0	3.747	0.074	0	0	0	3
PL.40885	PL.40883	A	#4 ACSR	7.36Y	122.6	0.00	2.41	0.20	0	1	0	100	0.00	0.0	3.805	0.058	1	0	1	2
PL.40886	PL.40885	A	#4 ACSR	7.36Y	122.6	0.00	2.41	0.00	0	0	0	100	0.00	0.0	3.894	0.089	0	0	1	1
PL.40884	PL.40883	A	#4 ACSR	7.36Y	122.6	0.00	2.41	0.06	0	0	0	100	0.00	0.0	3.802	0.056	0	0	1	1
PL.40887	PL.40882	A	6 A (CWC)	7.35Y	122.6	0.02	2.42	7.61	5	54	16	96	0.01	0.0	3.718	0.046	3	1	1	10
PL.40888	PL.40887	A	6 A (CWC)	7.35Y	122.5	0.04	2.46	7.25	5	51	15	96	0.01	0.0	3.843	0.125	12	3	2	9
PL.40889	PL.40888	A	6 A (CWC)	7.35Y	122.5	0.01	2.47	5.61	4	40	11	96	0.00	0.0	3.888	0.045	0	0	0	7
PL.40153	PL.40889	A	6 A (CWC)	7.35Y	122.5	0.00	2.47	1.16	1	8	2	97	0.00	0.0	3.906	0.018	8	2	1	1
PL.40392	PL.40889	A	6 A (CWC)	7.35Y	122.5	0.01	2.48	3.02	2	21	6	96	0.00	0.0	3.972	0.084	0	0	0	4
PL.40771	PL.40392	A	6 A (CWC)	7.35Y	122.5	0.01	2.49	1.51	1	11	3	96	0.00	0.0	4.058	0.086	0	0	0	2
PL.40251	PL.40771	A	#1/0 ACSR	7.35Y	122.5	0.00	2.49	0.65	0	5	1	98	0.00	0.0	4.156	0.098	5	1	1	1
PL.40772	PL.40771	A	6 A (CWC)	7.35Y	122.5	0.00	2.49	0.86	1	6	2	95	0.00	0.0	4.112	0.054	6	2	1	1

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40393	PL.40392	A	#4 ACSR	7.35Y	122.5	0.00	2.48	1.51	1	11	3	96	0.00	0.0	4.044	0.072	10	3	1	2
PL.40394	PL.40393	A	#4 ACSR	7.35Y	122.5	0.00	2.48	0.05	0	0	0	100	0.00	0.0	4.100	0.056	0	0	1	1
PL.40307	PL.40889	A	6 A (CWC)	7.35Y	122.5	0.00	2.47	1.43	1	10	3	96	0.00	0.0	3.925	0.037	10	3	2	2
PL.40773	PL.40442	ABC	336 MCM AC	7.36Y	122.7	0.04	2.32	30.53	6	647	191	96	0.12	0.0	3.506	0.152	0	0	0	82
PL.40774	PL.40773	A	#4 ACSR	7.36Y	122.7	0.00	2.32	0.44	0	3	1	95	0.00	0.0	3.512	0.006	0	0	0	2
PD.6370	PL.40774	A	25QA	7.36Y	122.7	0.00	2.32	0.44	2	3	1	95	0.00	0.0	3.512	0.006	0	0	0	2
PL.40775	PD.6370	A	#4 ACSR	7.36Y	122.7	0.00	2.32	0.44	0	3	1	95	0.00	0.0	3.558	0.046	3	1	2	2
PL.40776	PL.40773	ABC	336 MCM AC	7.36Y	122.7	0.01	2.34	30.38	6	643	190	96	0.05	0.0	3.569	0.063	0	0	0	80
PL.40777	PL.40776	A	6 A (CWC)	7.36Y	122.7	0.00	2.34	1.70	1	12	3	97	0.00	0.0	3.575	0.006	0	0	0	2
PD.6257	PL.40777	A	25QA	7.36Y	122.7	0.00	2.34	1.70	7	12	3	97	0.00	0.0	3.575	0.006	0	0	0	2
PL.40778	PD.6257	A	6 A (CWC)	7.36Y	122.7	0.00	2.34	1.70	1	12	3	97	0.00	0.0	3.656	0.082	12	3	1	2
PL.40779	PL.40778	A	6 A (CWC)	7.36Y	122.7	0.00	2.34	0.05	0	0	0	100	0.00	0.0	3.738	0.081	0	0	0	1
PL.40780	PL.40779	A	6 A (CWC)	7.36Y	122.7	0.00	2.34	0.05	0	0	0	100	0.00	0.0	3.830	0.092	0	0	1	1
PL.40781	PL.40776	ABC	336 MCM AC	7.36Y	122.6	0.03	2.37	29.82	6	631	187	96	0.11	0.0	3.721	0.152	0	0	0	78
PL.40785	PL.40781	ABC	336 MCM AC	7.36Y	122.6	0.01	2.38	29.45	6	623	184	96	0.02	0.0	3.750	0.029	0	0	0	77
PL.40786	PL.40785	ABC	336 MCM AC	7.35Y	122.6	0.04	2.42	29.45	6	623	184	96	0.13	0.0	3.928	0.178	0	0	0	77
PL.40707	PL.40786	C	#1/0 ACSR	7.35Y	122.6	0.00	2.42	1.83	1	13	4	96	0.00	0.0	4.045	0.117	13	4	1	1
PL.40787	PL.40786	ABC	336 MCM AC	7.35Y	122.5	0.05	2.47	28.84	6	610	180	96	0.16	0.0	4.154	0.226	0	0	0	76
PL.40342	PL.40787	C	#2 ACSR	7.35Y	122.5	0.00	2.47	0.00	0	0	0	100	0.00	0.0	4.211	0.057	0	0	0	0
PL.40788	PL.40787	A	#2 ACSR	7.35Y	122.5	0.00	2.47	2.80	2	20	6	96	0.00	0.0	4.160	0.006	0	0	0	2
PD.6274	PL.40788	A	40QA	7.35Y	122.5	0.00	2.47	2.80	7	20	6	96	0.00	0.0	4.160	0.006	0	0	0	2
PL.40789	PD.6274	A	#2 ACSR	7.35Y	122.5	0.01	2.47	2.80	2	20	6	96	0.00	0.0	4.280	0.121	20	6	2	2
PL.40790	PL.40787	ABC	336 MCM AC	7.35Y	122.5	0.02	2.49	27.91	5	590	174	96	0.06	0.0	4.242	0.088	0	0	0	74
PL.40792	PL.40790	A	#2 ACSR	7.35Y	122.5	0.00	2.49	0.12	0	1	0	100	0.00	0.0	4.248	0.006	0	0	0	1
PD.6343	PL.40792	A	40QA	7.35Y	122.5	0.00	2.49	0.12	0	1	0	100	0.00	0.0	4.248	0.006	0	0	0	1
PL.40793	PD.6343	A	#2 ACSR	7.35Y	122.5	0.00	2.49	0.12	0	1	0	100	0.00	0.0	4.297	0.049	1	0	1	1
PL.40791	PL.40790	ABC	336 MCM AC	7.35Y	122.5	0.01	2.49	27.87	5	590	174	96	0.02	0.0	4.274	0.032	0	0	0	73
PL.40794	PL.40791	ABC	336 MCM AC	7.35Y	122.5	0.01	2.51	27.87	5	590	174	96	0.04	0.0	4.341	0.067	2	1	1	73
PL.40795	PL.40794	ABC	336 MCM AC	7.35Y	122.4	0.05	2.56	27.77	5	587	173	96	0.16	0.0	4.588	0.246	21	6	2	72
PL.40796	PL.40795	ABC	336 MCM AC	7.35Y	122.4	0.01	2.57	25.99	5	549	162	96	0.03	0.0	4.636	0.048	0	0	0	68
PL.40697	PL.40796	C	#1/0 ACSR	7.35Y	122.4	0.00	2.57	2.12	1	15	4	97	0.00	0.0	4.674	0.038	15	4	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.63835	PL.40796	ABC	336 MCM AC	7.34Y	122.4	0.02	2.59	25.28	5	535	157	96	0.05	0.0	4.733	0.097	0	0	0	67
PL.63837	PL.63835	A	#1/0 ACSR	7.34Y	122.4	0.00	2.59	0.00	0	0	0	100	0.00	0.0	4.793	0.059	0	0	0	0
PL.63836	PL.63835	ABC	336 MCM AC	7.34Y	122.4	0.05	2.64	25.28	5	534	157	96	0.14	0.0	4.990	0.257	0	0	0	67
PL.62521	PL.63836	A	#2 ACSR	7.34Y	122.4	0.00	2.64	5.32	3	37	11	96	0.00	0.0	4.994	0.003	0	0	0	5
PD.9377	PL.62521	A	25T	7.34Y	122.4	0.00	2.64	5.32	0	37	11	96	0.00	0.0	4.994	0.003	0	0	0	5
PL.62522	PD.9377	A	#2 ACSR	7.34Y	122.3	0.02	2.65	5.32	3	37	11	96	0.00	0.0	5.124	0.130	14	4	2	5
PL.63348	PL.62522	A	#2 ACSR	7.34Y	122.3	0.02	2.67	3.37	2	24	7	96	0.00	0.0	5.270	0.146	0	0	0	3
PL.63349	PL.63348	A	#2 ACSR	7.34Y	122.3	0.00	2.67	3.35	2	24	7	96	0.00	0.0	5.270	0.000	0	0	0	2
PD.9464	PL.63349	A	25T	7.34Y	122.3	0.00	2.67	3.35	0	24	7	96	0.00	0.0	5.270	0.000	0	0	0	2
PL.63347	PD.9464	A	#2 ACSR	7.34Y	122.3	0.02	2.69	3.35	2	24	7	96	0.00	0.0	5.468	0.197	0	0	0	2
PL.40799	PL.63347	A	#2 ACSR	7.34Y	122.3	0.01	2.70	1.20	1	8	2	97	0.00	0.0	5.654	0.187	0	0	0	1
PL.40800	PL.40799	A	#2 ACSR	7.34Y	122.3	0.00	2.70	1.20	1	8	2	97	0.00	0.0	5.772	0.117	8	2	1	1
PL.40311	PL.63347	A	#2 ACSR	7.34Y	122.3	0.00	2.69	2.15	1	15	4	97	0.00	0.0	5.495	0.028	15	4	1	1
PL.63350	PL.63348	A	#1/0 ACSR	7.34Y	122.3	0.00	2.67	0.03	0	0	0	100	0.00	0.0	5.305	0.036	0	0	0	1
PL.63351	PL.63350	A	#1/0 ACSR	7.34Y	122.3	0.00	2.67	0.03	0	0	0	100	0.00	0.0	5.379	0.074	0	0	0	1
PL.63352	PL.63351	A	#1/0 ACSR	7.34Y	122.3	0.00	2.67	0.03	0	0	0	100	0.00	0.0	5.436	0.057	0	0	1	1
PL.57753	PL.62522	A	#1/0 ACSR	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	5.173	0.049	0	0	0	0
PL.40154	PL.63836	ABC	336 MCM AC	7.34Y	122.3	0.01	2.65	23.51	5	497	146	96	0.04	0.0	5.072	0.082	0	0	0	62
PL.40820	PL.40154	ABC	336 MCM AC	7.34Y	122.3	0.01	2.66	21.50	4	454	133	96	0.03	0.0	5.154	0.082	7	2	1	58
PL.40318	PL.40820	ABC	336 MCM AC	7.34Y	122.3	0.02	2.68	21.15	4	447	131	96	0.04	0.0	5.272	0.118	0	0	0	57
PL.40321	PL.40318	ABC	336 MCM AC	7.34Y	122.3	0.04	2.72	21.15	4	447	131	96	0.09	0.0	5.515	0.243	0	0	0	57
PL.40322	PL.40321	ABC	336 MCM AC	7.34Y	122.3	0.01	2.73	21.13	4	446	131	96	0.02	0.0	5.560	0.045	0	0	0	56
PL.62486	PL.40322	A	#2 ACSR	7.34Y	122.3	0.00	2.73	2.93	2	21	6	96	0.00	0.0	5.563	0.003	0	0	0	1
PD.9354	PL.62486	A	25T	7.34Y	122.3	0.00	2.73	2.93	0	21	6	96	0.00	0.0	5.563	0.003	0	0	0	1
PL.62487	PD.9354	A	#2 ACSR	7.34Y	122.3	0.02	2.75	2.93	2	21	6	96	0.00	0.0	5.738	0.175	0	0	0	1
PL.40890	PL.62487	A	#2 ACSR	7.34Y	122.3	0.00	2.75	2.93	2	21	6	96	0.00	0.0	5.826	0.088	21	6	1	1
PL.40891	PL.40322	ABC	336 MCM AC	7.34Y	122.3	0.01	2.74	20.16	4	426	125	96	0.02	0.0	5.616	0.057	8	2	1	55
PL.40892	PL.40891	ABC	336 MCM AC	7.34Y	122.3	0.01	2.74	19.80	4	418	123	96	0.02	0.0	5.665	0.049	14	4	1	54
PL.40893	PL.40892	ABC	336 MCM AC	7.33Y	122.2	0.01	2.76	19.15	4	404	119	96	0.03	0.0	5.753	0.088	9	3	2	53
PL.40894	PL.40893	ABC	336 MCM AC	7.33Y	122.2	0.01	2.77	18.27	4	386	113	96	0.02	0.0	5.814	0.061	0	0	0	50
PL.40896	PL.40894	ABC	336 MCM AC	7.33Y	122.2	0.01	2.77	17.44	3	368	108	96	0.01	0.0	5.866	0.052	23	7	2	48

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40897	PL.40896	A	#2 ACSR	7.33Y	122.2	0.00	2.77	0.00	0	0	0	100	0.00	0.0	5.872	0.006	0	0	0	0
PD.6373	PL.40897	A	40QA	7.33Y	122.2	0.00	2.77	0.00	0	0	0	100	0.00	0.0	5.872	0.006	0	0	0	0
PL.40898	PD.6373	A	#2 ACSR	7.33Y	122.2	0.00	2.77	0.00	0	0	0	100	0.00	0.0	6.001	0.129	0	0	0	0
PL.40899	PL.40898	A	#2 ACSR	7.33Y	122.2	0.00	2.77	0.00	0	0	0	100	0.00	0.0	6.082	0.082	0	0	0	0
PL.40558	PL.40896	A	#2 ACSR	7.33Y	122.2	0.00	2.77	0.00	0	0	0	100	0.00	0.0	5.889	0.023	0	0	0	0
PL.40900	PL.40896	ABC	336 MCM AC	7.33Y	122.2	0.01	2.79	16.34	3	345	101	96	0.03	0.0	5.980	0.114	0	0	0	46
PL.40901	PL.40900	A	#2 ACSR	7.33Y	122.2	0.00	2.79	2.10	1	15	4	97	0.00	0.0	5.986	0.006	0	0	0	4
PD.6328	PL.40901	A	40QA	7.33Y	122.2	0.00	2.79	2.10	5	15	4	97	0.00	0.0	5.986	0.006	0	0	0	4
PL.40902	PD.6328	A	#2 ACSR	7.33Y	122.2	0.00	2.79	2.10	1	15	4	97	0.00	0.0	6.012	0.026	9	3	2	4
PL.40903	PL.40902	A	#2 ACSR	7.33Y	122.2	0.00	2.79	0.79	0	6	2	95	0.00	0.0	6.215	0.203	0	0	1	2
PL.40904	PL.40903	A	#2 ACSR	7.33Y	122.2	0.00	2.79	0.74	0	5	2	93	0.00	0.0	6.239	0.024	5	2	1	1
PL.40905	PL.40900	ABC	336 MCM AC	7.33Y	122.2	0.01	2.80	15.64	3	330	97	96	0.02	0.0	6.066	0.085	0	0	0	42
PL.40906	PL.40905	A	#2 ACSR	7.33Y	122.2	0.00	2.80	0.87	0	6	2	95	0.00	0.0	6.071	0.006	0	0	0	1
PD.6270	PL.40906	A	40QA	7.33Y	122.2	0.00	2.80	0.87	2	6	2	95	0.00	0.0	6.071	0.006	0	0	0	1
PL.40907	PD.6270	A	#2 ACSR	7.33Y	122.2	0.00	2.80	0.87	0	6	2	95	0.00	0.0	6.096	0.025	6	2	1	1
PL.40908	PL.40905	ABC	336 MCM AC	7.33Y	122.2	0.03	2.82	15.35	3	324	95	96	0.05	0.0	6.298	0.232	0	0	0	41
PL.40909	PL.40908	A	#2 ACSR	7.33Y	122.2	0.00	2.82	1.95	1	14	4	96	0.00	0.0	6.303	0.006	0	0	0	2
PD.6256	PL.40909	A	40QA	7.33Y	122.2	0.00	2.82	1.95	5	14	4	96	0.00	0.0	6.303	0.006	0	0	0	2
PL.55963	PD.6256	A	#2 ACSR	7.33Y	122.2	0.00	2.82	1.95	1	14	4	96	0.00	0.0	6.346	0.043	14	4	2	2
PL.62932	PL.40908	ABC	336 MCM AC	7.33Y	122.2	0.02	2.84	14.70	3	310	91	96	0.03	0.0	6.457	0.159	0	0	0	39
PL.62933	PL.62932	A	#2 ACSR	7.33Y	122.2	0.00	2.84	5.98	3	42	12	96	0.00	0.0	6.463	0.006	0	0	0	3
PD.6255	PL.62933	A	40QA	7.33Y	122.2	0.00	2.84	5.98	15	42	12	96	0.00	0.0	6.463	0.006	0	0	0	3
PL.40910	PD.6255	A	#2 ACSR	7.33Y	122.1	0.01	2.85	5.98	3	42	12	96	0.00	0.0	6.527	0.065	13	4	1	3
PL.40911	PL.40910	A	#2 ACSR	7.33Y	122.1	0.00	2.85	4.07	2	29	8	96	0.00	0.0	6.550	0.022	15	4	1	2
PL.59226	PL.40911	A	#2 ACSR	7.33Y	122.1	0.00	2.86	1.99	1	14	4	96	0.00	0.0	6.620	0.071	14	4	1	1
PL.59227	PL.59226	A	#2 ACSR	7.33Y	122.1	0.00	2.86	0.00	0	0	0	100	0.00	0.0	6.768	0.147	0	0	0	0
PL.62925	PL.62932	ABC	336 MCM AC	7.33Y	122.1	0.01	2.85	12.71	2	268	79	96	0.01	0.0	6.561	0.104	0	0	0	36
PL.62922	PL.62925	ABC	336 MCM AC	7.33Y	122.1	0.00	2.85	2.93	1	62	18	96	0.00	0.0	6.626	0.065	0	0	0	6
PL.62924	PL.62922	A	6 A (CWC)	7.33Y	122.1	0.00	2.85	7.95	6	56	16	96	0.00	0.0	6.632	0.006	0	0	0	5
PD.6253	PL.62924	A	25T	7.33Y	122.1	0.00	2.85	7.95	0	56	16	96	0.00	0.0	6.632	0.006	0	0	0	5
PL.40709	PD.6253	A	6 A (CWC)	7.32Y	122.1	0.09	2.95	7.95	6	56	16	96	0.04	0.1	6.926	0.294	14	4	1	5

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40710	PL.40709	A	6 A (CWC)	7.32Y	122.0	0.02	2.97	5.94	4	42	12	96	0.01	0.0	7.025	0.099	15	4	2	4
PL.40357	PL.40710	A	6 A (CWC)	7.32Y	122.0	0.04	3.01	3.76	3	26	8	96	0.01	0.0	7.251	0.226	0	0	0	2
PL.40741	PL.40357	A	#4 ACSR	7.32Y	122.0	0.01	3.02	2.77	2	20	6	96	0.00	0.0	7.372	0.121	20	6	1	1
PL.40007	PL.40357	A	6 A (CWC)	7.32Y	122.0	0.00	3.01	0.98	1	7	2	96	0.00	0.0	7.343	0.091	7	2	1	1
PL.62923	PL.62922	A	#2 ACSR	7.33Y	122.1	0.00	2.85	0.84	0	6	2	95	0.00	0.0	6.696	0.070	6	2	1	1
PL.62926	PL.62925	A	6 A (CWC)	7.33Y	122.1	0.00	2.86	29.34	21	206	61	96	0.01	0.0	6.564	0.003	0	0	0	30
PD.9404	PL.62926	A	50L	7.33Y	122.1	0.00	2.86	29.34	59	206	61	96	0.00	0.0	6.564	0.003	0	0	0	30
PL.62928	PD.9404	A	6 A (CWC)	7.31Y	121.9	0.28	3.13	29.34	21	206	61	96	0.43	0.2	6.770	0.205	0	0	0	30
PL.62927	PL.62928	A	6 A (CWC)	7.30Y	121.7	0.21	3.34	29.34	21	206	60	96	0.33	0.2	6.926	0.156	0	0	0	29
PL.62930	PL.62927	A	#4 ACSR	7.30Y	121.7	0.00	3.35	0.95	1	7	2	96	0.00	0.0	7.026	0.100	7	2	2	2
PL.62931	PL.62927	A	6 A (CWC)	7.29Y	121.5	0.15	3.50	28.39	20	199	58	96	0.23	0.1	7.044	0.118	0	0	0	27
PL.39666	PL.62931	A	6 A (CWC)	7.29Y	121.5	0.00	3.50	1.74	1	12	4	95	0.00	0.0	7.072	0.028	12	4	1	1
PL.40821	PL.62931	A	6 A (CWC)	7.26Y	121.0	0.51	4.00	26.65	19	186	55	96	0.71	0.4	7.456	0.412	0	0	0	26
PL.40913	PL.40821	A	6 A (CWC)	7.25Y	120.9	0.14	4.14	26.65	19	186	54	96	0.20	0.1	7.571	0.115	0	0	0	26
PL.60651	PL.40913	A	#2 ACSR	7.25Y	120.9	0.00	4.15	2.46	1	17	5	96	0.00	0.0	7.632	0.060	6	2	2	3
PL.60652	PL.60651	A	#2 ACSR	7.25Y	120.8	0.00	4.15	1.63	1	11	3	96	0.00	0.0	7.693	0.061	0	0	0	1
PL.40912	PL.60652	A	#2 ACSR	7.25Y	120.8	0.00	4.15	1.63	1	11	3	96	0.00	0.0	7.730	0.037	11	3	1	1
PL.40914	PL.40913	A	6 A (CWC)	7.24Y	120.7	0.11	4.25	24.19	17	168	49	96	0.14	0.1	7.670	0.099	0	0	0	23
PL.40767	PL.40914	A	6 A (CWC)	7.24Y	120.7	0.00	4.25	0.00	0	0	0	100	0.00	0.0	7.712	0.042	0	0	0	0
PL.40915	PL.40914	A	6 A (CWC)	7.23Y	120.6	0.18	4.43	24.19	17	168	49	96	0.22	0.1	7.835	0.165	12	3	1	23
PL.40916	PL.40915	A	6 A (CWC)	7.23Y	120.5	0.07	4.50	22.46	16	156	45	96	0.08	0.1	7.906	0.070	8	2	1	22
PL.40917	PL.40916	A	6 A (CWC)	7.22Y	120.4	0.11	4.61	21.36	15	148	43	96	0.13	0.1	8.019	0.113	0	0	0	21
PL.40918	PL.40917	A	6 A (CWC)	7.22Y	120.3	0.04	4.65	21.34	15	148	43	96	0.05	0.0	8.064	0.046	10	3	2	20
PL.40919	PL.40918	A	6 A (CWC)	7.22Y	120.3	0.08	4.74	19.94	14	138	40	96	0.09	0.1	8.153	0.088	0	0	0	18
PL.58407	PL.40919	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.01	0	0	0	100	0.00	0.0	8.155	0.003	0	0	0	1
PD.8580	PL.58407	A	25T	7.22Y	120.3	0.00	4.74	0.01	0	0	0	100	0.00	0.0	8.155	0.003	0	0	0	1
PL.58408	PD.8580	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.01	0	0	0	100	0.00	0.0	8.238	0.082	0	0	0	1
PL.58406	PL.58408	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.01	0	0	0	100	0.00	0.0	8.615	0.377	0	0	0	1
PL.40811	PL.58406	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.01	0	0	0	100	0.00	0.0	8.837	0.222	0	0	1	1
PL.56619	PL.40919	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	19.93	14	138	40	96	0.00	0.0	8.157	0.005	0	0	0	16
PD.8297	PL.56619	A	50QA	7.22Y	120.3	0.00	4.74	19.93	40	138	40	96	0.00	0.0	8.157	0.005	0	0	0	16

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.56620	PD.8297	A	6 A (CWC)	7.21Y	120.1	0.12	4.86	19.93	14	138	40	96	0.13	0.1	8.300	0.143	12	4	1	16
PL.40204	PL.56620	A	6 A (CWC)	7.21Y	120.1	0.04	4.91	18.16	13	126	36	96	0.04	0.0	8.351	0.051	0	0	0	15
PL.40205	PL.40204	A	6 A (CWC)	7.20Y	120.0	0.07	4.97	16.44	12	114	33	96	0.06	0.1	8.441	0.091	3	1	1	14
PL.40206	PL.40205	A	6 A (CWC)	7.20Y	120.0	0.03	5.01	15.97	11	110	32	96	0.03	0.0	8.488	0.047	0	0	0	13
PL.40705	PL.40206	A	6 A (CWC)	7.20Y	120.0	0.00	5.01	2.29	2	16	5	95	0.00	0.0	8.510	0.021	16	5	1	1
PL.40207	PL.40206	A	6 A (CWC)	7.20Y	120.0	0.03	5.04	13.68	10	95	27	96	0.02	0.0	8.539	0.050	0	0	0	12
PL.40210	PL.40207	A	6 A (CWC)	7.19Y	119.9	0.05	5.09	12.03	9	83	24	96	0.03	0.0	8.633	0.094	0	0	0	10
PL.39682	PL.40210	A	#1/0 ACSR	7.19Y	119.9	0.00	5.10	1.70	1	12	3	97	0.00	0.0	8.806	0.173	12	3	1	1
PL.40211	PL.40210	A	6 A (CWC)	7.19Y	119.9	0.06	5.15	10.33	7	71	21	96	0.03	0.0	8.756	0.123	4	1	1	9
PL.59228	PL.40211	A	6 A (CWC)	7.19Y	119.8	0.06	5.20	9.78	7	68	20	96	0.03	0.0	8.889	0.133	10	3	1	8
PL.60714	PL.59228	A	#1/0 ACSR	7.19Y	119.8	0.00	5.21	2.41	1	17	5	96	0.00	0.0	8.955	0.065	8	2	1	3
PL.60715	PL.60714	A	#1/0 ACSR	7.19Y	119.8	0.00	5.21	1.18	1	8	2	97	0.00	0.0	9.051	0.096	8	2	2	2
PL.59229	PL.59228	A	6 A (CWC)	7.19Y	119.8	0.02	5.22	5.89	4	41	12	96	0.00	0.0	8.961	0.071	10	3	1	4
PL.40212	PL.59229	A	6 A (CWC)	7.19Y	119.8	0.01	5.24	4.39	3	30	9	96	0.00	0.0	9.047	0.086	11	3	1	3
PL.40213	PL.40212	A	6 A (CWC)	7.19Y	119.8	0.01	5.24	2.74	2	19	5	97	0.00	0.0	9.190	0.143	19	5	2	2
PL.40208	PL.40207	A	#2 ACSR	7.20Y	120.0	0.01	5.05	1.65	1	11	3	96	0.00	0.0	8.681	0.143	1	0	1	2
PL.40209	PL.40208	A	#2 ACSR	7.20Y	120.0	0.00	5.05	1.55	1	11	3	96	0.00	0.0	8.717	0.036	11	3	1	1
PL.40352	PL.40204	A	6 A (CWC)	7.21Y	120.1	0.00	4.91	1.72	1	12	3	97	0.00	0.0	8.424	0.074	12	3	1	1
PL.40143	PL.40919	A	#2 ACSR	7.22Y	120.3	0.00	4.74	0.00	0	0	0	100	0.00	0.0	8.209	0.057	0	0	1	1
PL.40225	PL.40917	A	#4 ACSR	7.22Y	120.4	0.00	4.61	0.02	0	0	0	100	0.00	0.0	8.178	0.159	0	0	1	1
PL.62929	PL.62928	A	6 A (CWC)	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	6.944	0.175	0	0	1	1
PL.40895	PL.40894	C	#2 ACSR	7.33Y	122.2	0.00	2.77	2.50	1	18	5	96	0.00	0.0	5.839	0.025	0	0	0	2
PL.62482	PL.40895	C	#2 ACSR	7.33Y	122.2	0.00	2.77	2.50	1	18	5	96	0.00	0.0	5.843	0.003	0	0	0	2
PD.9352	PL.62482	C	10T	7.33Y	122.2	0.00	2.77	2.50	0	18	5	96	0.00	0.0	5.843	0.003	0	0	0	2
PL.62483	PD.9352	C	#2 ACSR	7.33Y	122.2	0.00	2.77	2.50	1	18	5	96	0.00	0.0	5.897	0.054	18	5	2	2
PL.40717	PL.40893	A	#2 ACSR	7.33Y	122.2	0.00	2.76	1.39	1	10	3	96	0.00	0.0	5.802	0.049	10	3	1	1
PL.40323	PL.40321	A	#2 ACSR	7.34Y	122.3	0.00	2.72	0.04	0	0	0	100	0.00	0.0	5.520	0.006	0	0	0	1
PD.6356	PL.40323	A	40QA	7.34Y	122.3	0.00	2.72	0.04	0	0	0	100	0.00	0.0	5.520	0.006	0	0	0	1
PL.40324	PD.6356	A	#2 ACSR	7.34Y	122.3	0.00	2.72	0.04	0	0	0	100	0.00	0.0	5.555	0.034	0	0	1	1
PL.40319	PL.40318	B	#2 ACSR	7.34Y	122.3	0.00	2.68	0.00	0	0	0	100	0.00	0.0	5.277	0.006	0	0	0	0
PD.6254	PL.40319	B	40QA	7.34Y	122.3	0.00	2.68	0.00	0	0	0	100	0.00	0.0	5.277	0.006	0	0	0	0

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40320	PD.6254	B	#2 ACSR	7.34Y	122.3	0.00	2.68	0.00	0	0	0	100	0.00	0.0	5.342	0.064	0	0	0	0
PL.40801	PL.40154	A	#2 ACSR	7.34Y	122.3	0.00	2.65	1.78	1	13	4	96	0.00	0.0	5.078	0.006	0	0	0	1
PD.6271	PL.40801	A	40QA	7.34Y	122.3	0.00	2.65	1.78	4	13	4	96	0.00	0.0	5.078	0.006	0	0	0	1
PL.40802	PD.6271	A	#2 ACSR	7.34Y	122.3	0.00	2.65	1.78	1	13	4	96	0.00	0.0	5.183	0.105	13	4	1	1
PL.40803	PL.40154	A	6 A (CWC)	7.34Y	122.3	0.00	2.65	4.26	3	30	9	96	0.00	0.0	5.078	0.006	0	0	0	3
PD.6272	PL.40803	A	25QA	7.34Y	122.3	0.00	2.65	4.26	17	30	9	96	0.00	0.0	5.078	0.006	0	0	0	3
PL.40315	PD.6272	A	6 A (CWC)	7.34Y	122.3	0.05	2.70	4.26	3	30	9	96	0.01	0.0	5.359	0.281	4	1	1	3
PL.40316	PL.40315	A	6 A (CWC)	7.34Y	122.3	0.01	2.71	3.67	3	26	7	97	0.00	0.0	5.420	0.060	0	0	0	2
PL.40722	PL.40316	A	#2 ACSR	7.34Y	122.3	0.00	2.72	1.22	1	9	2	98	0.00	0.0	5.560	0.140	9	2	1	1
PL.40317	PL.40316	A	6 A (CWC)	7.34Y	122.3	0.00	2.72	2.45	2	17	5	96	0.00	0.0	5.494	0.074	17	5	1	1
PL.40797	PL.40795	A	#2 ACSR	7.35Y	122.4	0.00	2.56	0.00	0	0	0	100	0.00	0.0	4.593	0.006	0	0	0	0
PD.6273	PL.40797	A	25QA	7.35Y	122.4	0.00	2.56	0.00	0	0	0	100	0.00	0.0	4.593	0.006	0	0	0	0
PL.40798	PD.6273	A	#2 ACSR	7.35Y	122.4	0.00	2.56	0.00	0	0	0	100	0.00	0.0	4.632	0.038	0	0	0	0
PL.60738	PL.40795	C	#1/0 ACSR	7.35Y	122.4	0.00	2.56	2.38	1	17	5	96	0.00	0.0	4.606	0.018	17	5	2	2
PL.40782	PL.40781	A	#2 ACSR	7.36Y	122.6	0.00	2.37	1.09	1	8	2	97	0.00	0.0	3.726	0.006	0	0	0	1
PD.6362	PL.40782	A	25QA	7.36Y	122.6	0.00	2.37	1.09	4	8	2	97	0.00	0.0	3.726	0.006	0	0	0	1
PL.40783	PD.6362	A	#2 ACSR	7.36Y	122.6	0.00	2.38	1.09	1	8	2	97	0.00	0.0	3.816	0.090	0	0	0	1
PL.40784	PL.40783	A	#2 ACSR	7.36Y	122.6	0.00	2.38	1.09	1	8	2	97	0.00	0.0	3.868	0.052	8	2	1	1
PL.40175	PL.40441	A	#2 ACSR	7.36Y	122.7	0.00	2.25	1.96	1	14	4	96	0.00	0.0	3.246	0.029	14	4	3	3
PL.40573	PL.40439	C	6 A (CWC)	7.37Y	122.8	0.00	2.20	0.00	0	0	0	100	0.00	0.0	3.136	0.132	0	0	0	0
PL.40505	PL.40504	A	6 A (CWC)	7.37Y	122.9	0.00	2.09	2.48	2	18	5	96	0.00	0.0	2.606	0.006	0	0	0	1
PD.6258	PL.40505	A	25QA	7.37Y	122.9	0.00	2.09	2.48	10	18	5	96	0.00	0.0	2.606	0.006	0	0	0	1
PL.40506	PD.6258	A	6 A (CWC)	7.37Y	122.9	0.03	2.12	2.48	2	18	5	96	0.00	0.0	2.864	0.258	0	0	0	1
PL.40437	PL.40506	A	6 A (CWC)	7.37Y	122.9	0.00	2.12	2.48	2	18	5	96	0.00	0.0	2.935	0.071	18	5	1	1
PL.40438	PL.40437	A	6 A (CWC)	7.37Y	122.9	0.00	2.12	0.00	0	0	0	100	0.00	0.0	3.294	0.359	0	0	0	0
PL.40356	PL.40504	A	#2 ACSR	7.37Y	122.9	0.00	2.09	1.74	1	12	4	95	0.00	0.0	2.662	0.062	12	4	2	2
PL.40574	PL.40567	C	6 A (CWC)	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	1.228	0.049	0	0	1	1
PL.52883	PL.52882	C	#4 ACSR	7.49Y	124.8	0.00	0.19	0.00	0	0	0	100	0.00	0.0	0.206	0.006	0	0	0	0
PD.6259	PL.52883	C	75QA	7.49Y	124.8	0.00	0.19	0.00	0	0	0	100	0.00	0.0	0.206	0.006	0	0	0	0
PL.40825	PD.6259	C	#4 ACSR	7.49Y	124.8	0.00	0.19	0.00	0	0	0	100	0.00	0.0	0.253	0.048	0	0	0	0
PL.62154	Eberle	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	184.19	35	3946	1267	95	0.24	0.0	0.008	0.008	0	0	0	517

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62155	PL.62154	ABC	336 MCM AC	7.50Y	125.0	0.02	0.03	184.19	35	3945	1267	95	0.35	0.0	0.020	0.012	0	0	0	517
---------- Feeder No. 3 (Hwy 490 F3) Beginning with Device PD.7983 ----------																				
PD.7983	PL.62155	ABC	480VWE	7.50Y	125.0	0.00	0.03	184.19	0	3945	1266	95	0.00	0.0	0.020	0.012	0	0	0	517
PL.40295	PD.7983	ABC	336 MCM AC	7.49Y	124.8	0.17	0.20	184.19	35	3945	1266	95	3.34	0.1	0.137	0.117	0	0	0	517
PL.40194	PL.40295	C	#1/0 ACSR	7.49Y	124.8	0.00	0.20	0.00	0	0	0	100	0.00	0.0	0.173	0.036	0	0	1	1
PL.64558	PL.40295	ABC	336 MCM AC	7.48Y	124.7	0.07	0.26	184.19	35	3942	1258	95	1.35	0.0	0.185	0.047	0	0	0	516
PL.64559	PL.64558	ABC	336 MCM AC	7.48Y	124.7	0.07	0.34	184.19	35	3940	1255	95	1.49	0.0	0.237	0.052	0	0	0	516
PL.62473	PL.64559	B	#1/0 ACSR	7.48Y	124.6	0.02	0.36	12.10	5	87	25	96	0.01	0.0	0.298	0.061	0	0	0	6
PD.9349	PL.62473	B	20T	7.48Y	124.6	0.00	0.36	12.10	0	87	25	96	0.00	0.0	0.298	0.061	0	0	0	6
PL.62474	PD.9349	B	#1/0 ACSR	7.48Y	124.6	0.02	0.37	12.10	5	87	25	96	0.01	0.0	0.352	0.054	0	0	0	6
PL.59232	PL.62474	B	#1/0 ACSR	7.47Y	124.6	0.06	0.43	12.10	5	87	25	96	0.03	0.0	0.570	0.219	14	4	1	6
PL.59233	PL.59232	B	#1/0 ACSR	7.47Y	124.6	0.01	0.44	10.13	4	73	21	96	0.00	0.0	0.614	0.044	9	3	1	5
PL.40193	PL.59233	B	#1/0 ACSR	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	0.859	0.245	0	0	0	0
PL.40188	PL.59233	B	6 A (CWC)	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	0.704	0.089	0	0	0	0
PL.40350	PL.59233	B	6 A (CWC)	7.47Y	124.5	0.03	0.47	8.82	6	63	18	96	0.01	0.0	0.700	0.086	17	5	1	4
PL.40689	PL.40350	B	6 A (CWC)	7.47Y	124.5	0.01	0.48	6.48	5	47	13	96	0.00	0.0	0.729	0.029	19	5	1	3
PL.40156	PL.40689	B	6 A (CWC)	7.47Y	124.5	0.02	0.49	3.84	3	28	8	96	0.00	0.0	0.839	0.111	11	3	1	2
PL.64326	PL.40156	B	#1/0 ACSR	7.47Y	124.5	0.00	0.49	2.28	1	16	5	95	0.00	0.0	0.902	0.063	0	0	0	1
PL.64327	PL.64326	B	#1/0 ACSR	7.47Y	124.5	0.00	0.50	2.28	1	16	5	95	0.00	0.0	0.976	0.074	16	5	1	1
PL.40186	PL.62474	B	#2 ACSR	7.48Y	124.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	0.373	0.022	0	0	0	0
PL.57691	PL.64559	ABC	336 MCM AC	7.47Y	124.6	0.09	0.43	180.15	35	3852	1226	95	1.76	0.0	0.301	0.064	3	1	2	510
PL.57689	PL.57691	ABC	336 MCM AC	7.47Y	124.4	0.14	0.56	180.03	35	3848	1221	95	2.64	0.1	0.398	0.097	10	3	1	508
PL.57690	PL.57689	ABC	336 MCM AC	7.46Y	124.3	0.13	0.69	179.56	35	3835	1212	95	2.48	0.1	0.490	0.092	10	3	1	507
PL.40942	PL.57690	ABC	336 MCM AC	7.45Y	124.2	0.07	0.77	179.09	35	3822	1203	95	1.42	0.0	0.542	0.053	0	0	1	506
PL.40945	PL.40942	ABC	336 MCM AC	7.44Y	124.1	0.16	0.92	178.14	34	3800	1194	95	3.04	0.1	0.657	0.114	16	5	2	503
PL.40946	PL.40945	A	#1/0 ACSR	7.44Y	124.1	0.00	0.92	2.12	1	15	4	97	0.00	0.0	0.662	0.006	0	0	0	2
PD.6302	PL.40946	A	25QA	7.44Y	124.1	0.00	0.92	2.12	8	15	4	97	0.00	0.0	0.662	0.006	0	0	0	2
PL.63402	PD.6302	A	#1/0 ACSR	7.44Y	124.1	0.01	0.93	2.12	1	15	4	97	0.00	0.0	0.783	0.121	0	0	0	2
PL.63403	PL.63402	A	#1/0 ACSR	7.44Y	124.1	0.00	0.93	0.56	0	4	1	97	0.00	0.0	0.849	0.066	4	1	1	1

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.63404	PL.63402	A	#1/0 ACSR	7.44Y	124.1	0.00	0.93	1.56	1	11	3	96	0.00	0.0	0.795	0.012	0	0	0	1
PL.63405	PL.63404	A	#1/0 ACSR	7.44Y	124.1	0.00	0.93	1.56	1	11	3	96	0.00	0.0	0.798	0.003	0	0	0	1
PD.9419	PL.63405	A	10T	7.44Y	124.1	0.00	0.93	1.56	0	11	3	96	0.00	0.0	0.798	0.003	0	0	0	1
PL.63406	PD.9419	A	#1/0 ACSR	7.44Y	124.1	0.00	0.93	1.56	1	11	3	96	0.00	0.0	0.854	0.056	0	0	0	1
PL.63407	PL.63406	A	#1/0 ACSR	7.44Y	124.1	0.00	0.93	1.56	1	11	3	96	0.00	0.0	0.912	0.058	0	0	0	1
PL.63408	PL.63407	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	1.56	1	11	3	96	0.00	0.0	0.974	0.063	0	0	0	1
PL.63409	PL.63408	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	1.56	1	11	3	96	0.00	0.0	1.018	0.044	0	0	0	1
PL.63410	PL.63409	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	1.56	1	11	3	96	0.00	0.0	1.088	0.070	11	3	1	1
PL.52519	PL.40945	ABC	336 MCM AC	7.44Y	124.0	0.05	0.97	176.68	34	3766	1178	95	0.99	0.0	0.694	0.038	0	0	0	499
PL.52674	PL.52519	ABC	336 MCM AC	7.44Y	124.0	0.05	1.02	176.68	34	3765	1176	95	0.91	0.0	0.729	0.035	0	0	0	499
PL.55834	PL.52674	ABC	336 MCM AC	7.43Y	123.8	0.15	1.17	176.68	34	3764	1173	95	2.90	0.1	0.840	0.111	23	7	2	499
PL.56064	PL.55834	A	#2 ACSR	7.43Y	123.8	0.00	1.17	5.97	3	43	12	96	0.00	0.0	0.842	0.002	0	0	0	7
PD.8293	PL.56064	A	60QA	7.43Y	123.8	0.00	1.17	5.97	10	43	12	96	0.00	0.0	0.842	0.002	0	0	0	7
PL.57776	PD.8293	A	#2 ACSR	7.43Y	123.8	0.00	1.17	5.97	3	43	12	96	0.00	0.0	0.843	0.001	0	0	0	7
PL.57778	PL.57776	A	6 A (CWC)	7.43Y	123.8	0.02	1.19	2.76	2	20	6	96	0.00	0.0	1.018	0.175	0	0	0	3
PL.57774	PL.57778	A	6 A (CWC)	7.43Y	123.8	0.01	1.21	1.60	1	11	3	96	0.00	0.0	1.234	0.217	2	1	1	2
PL.63383	PL.57774	A	#1/0 ACSR	7.43Y	123.8	0.00	1.21	1.28	1	9	3	95	0.00	0.0	1.297	0.063	0	0	0	1
PL.63384	PL.63383	A	#1/0 ACSR	7.43Y	123.8	0.00	1.21	1.28	1	9	3	95	0.00	0.0	1.379	0.081	9	3	1	1
PL.57779	PL.57778	A	#1/0 ACSR	7.43Y	123.8	0.00	1.19	1.16	1	8	2	97	0.00	0.0	1.020	0.003	0	0	0	1
PD.8513	PL.57779	A	15T	7.43Y	123.8	0.00	1.19	1.16	0	8	2	97	0.00	0.0	1.020	0.003	0	0	0	1
PL.57780	PD.8513	A	#1/0 ACSR	7.43Y	123.8	0.00	1.19	1.16	1	8	2	97	0.00	0.0	1.060	0.040	8	2	1	1
PL.57775	PL.57776	A	6 A (CWC)	7.43Y	123.8	0.00	1.17	0.00	0	0	0	100	0.00	0.0	0.889	0.046	0	0	0	0
PL.57777	PL.57776	A	#2 ACSR	7.43Y	123.8	0.01	1.18	3.21	2	23	7	96	0.00	0.0	0.924	0.082	11	3	1	4
PL.56065	PL.57777	A	#2 ACSR	7.43Y	123.8	0.00	1.18	1.68	1	12	3	97	0.00	0.0	0.989	0.065	0	0	0	3
PL.40947	PL.56065	A	#2 ACSR	7.43Y	123.8	0.00	1.18	1.16	1	8	2	97	0.00	0.0	1.140	0.150	8	2	2	2
PL.40325	PL.56065	A	#2 ACSR	7.43Y	123.8	0.00	1.18	0.52	0	4	1	97	0.00	0.0	1.014	0.025	4	1	1	1
PL.55835	PL.55834	ABC	336 MCM AC	7.43Y	123.8	0.06	1.23	173.63	33	3696	1148	95	1.07	0.0	0.882	0.042	10	3	1	490
PL.40033	PL.55835	ABC	336 MCM AC	7.42Y	123.7	0.04	1.27	173.15	33	3685	1142	96	0.82	0.0	0.915	0.033	0	0	0	489
PL.40034	PL.40033	ABC	336 MCM AC	7.42Y	123.7	0.05	1.32	173.15	33	3684	1140	96	0.97	0.0	0.953	0.039	7	2	1	489
PL.40031	PL.40034	ABC	336 MCM AC	7.42Y	123.6	0.09	1.41	172.84	33	3676	1136	96	1.65	0.0	1.019	0.065	0	0	0	488
PL.40032	PL.40031	ABC	336 MCM AC	7.41Y	123.5	0.10	1.51	172.84	33	3674	1132	96	1.94	0.1	1.096	0.077	0	0	0	488

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40030	PL.40032	A	#4 ACSR	7.41Y	123.5	0.00	1.51	0.00	0	0	0	100	0.00	0.0	1.101	0.006	0	0	0	0
PD.6283	PL.40030	A	20QA	7.41Y	123.5	0.00	1.51	0.00	0	0	0	100	0.00	0.0	1.101	0.006	0	0	0	0
PL.56466	PD.6283	A	#4 ACSR	7.41Y	123.5	0.00	1.51	0.00	0	0	0	100	0.00	0.0	1.131	0.030	0	0	0	0
PL.40035	PL.40032	ABC	336 MCM AC	7.40Y	123.3	0.16	1.68	172.43	33	3664	1125	96	3.08	0.1	1.219	0.123	12	4	2	487
PL.40427	PL.40035	ABC	336 MCM AC	7.39Y	123.2	0.10	1.77	171.85	33	3648	1115	96	1.85	0.1	1.294	0.074	0	0	0	485
PL.40429	PL.40427	C	#2 ACSR	7.39Y	123.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	1.299	0.006	0	0	0	0
PD.6346	PL.40429	C	20QA	7.39Y	123.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	1.299	0.006	0	0	0	0
PL.40430	PD.6346	C	#2 ACSR	7.39Y	123.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	1.328	0.029	0	0	0	0
PL.40428	PL.40427	ABC	336 MCM AC	7.39Y	123.1	0.08	1.85	171.85	33	3647	1110	96	1.53	0.0	1.355	0.061	0	0	0	485
PL.40431	PL.40428	ABC	336 MCM AC	7.38Y	123.1	0.07	1.92	171.85	33	3645	1107	96	1.30	0.0	1.407	0.052	0	0	0	485
PL.40432	PL.40431	ABC	336 MCM AC	7.38Y	123.0	0.11	2.03	171.38	33	3634	1101	96	2.01	0.1	1.489	0.081	0	0	0	484
PL.40433	PL.40432	ABC	336 MCM AC	7.36Y	122.7	0.22	2.25	170.72	33	3618	1092	96	4.20	0.1	1.660	0.171	0	0	0	483
PL.40949	PL.40433	ABC	336 MCM AC	7.36Y	122.7	0.01	2.26	34.96	7	741	218	96	0.04	0.0	1.699	0.039	0	0	0	100
PL.62176	PL.40949	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.28	34.69	15	735	216	96	0.08	0.0	1.725	0.026	0	0	0	98
PL.62179	PL.62176	ABC	#2 ACSR	7.36Y	122.7	0.03	2.31	34.69	20	735	216	96	0.16	0.0	1.757	0.032	0	0	0	98
PD.9282	PL.62179	ABC	50L	7.36Y	122.7	0.00	2.31	34.69	69	735	216	96	0.00	0.0	1.757	0.032	0	0	0	98
PL.62180	PD.9282	ABC	#2 ACSR	7.36Y	122.7	0.03	2.34	34.69	20	735	216	96	0.16	0.0	1.789	0.033	0	0	0	98
PL.62178	PL.62180	ABC	#2 ACSR	7.35Y	122.6	0.09	2.42	33.83	19	717	210	96	0.48	0.1	1.892	0.102	9	3	1	96
PL.40955	PL.62178	ABC	#2 ACSR	7.35Y	122.5	0.04	2.46	32.10	18	680	200	96	0.20	0.0	1.941	0.049	25	7	2	92
PL.40539	PL.40955	ABC	#2 ACSR	7.35Y	122.5	0.00	2.47	29.97	17	634	186	96	0.02	0.0	1.946	0.006	0	0	0	87
PD.6312	PL.40539	ABC	60QA	7.35Y	122.5	0.00	2.47	29.97	50	634	186	96	0.00	0.0	1.946	0.006	0	0	0	87
PL.40540	PD.6312	ABC	#2 ACSR	7.35Y	122.5	0.04	2.51	29.97	17	634	186	96	0.19	0.0	1.999	0.053	7	2	1	87
PL.40545	PL.40540	ABC	#4 ACSR	7.35Y	122.5	0.00	2.51	0.00	0	0	0	100	0.00	0.0	2.099	0.099	0	0	0	0
PL.40546	PL.40545	ABC	#4 ACSR	7.35Y	122.5	0.00	2.51	0.00	0	0	0	100	0.00	0.0	2.167	0.068	0	0	0	0
PL.40544	PL.40540	ABC	#2 ACSR	7.35Y	122.5	0.03	2.54	29.62	17	627	184	96	0.15	0.0	2.041	0.041	13	4	1	85
PL.40547	PL.40544	ABC	#2 ACSR	7.34Y	122.4	0.06	2.60	29.01	17	613	180	96	0.29	0.0	2.125	0.084	14	4	1	84
PL.40548	PL.40547	ABC	#2 ACSR	7.34Y	122.4	0.03	2.63	28.33	16	599	176	96	0.14	0.0	2.167	0.042	0	0	0	83
PL.59224	PL.40548	ABC	#2 ACSR	7.34Y	122.3	0.08	2.71	28.33	16	599	176	96	0.35	0.1	2.275	0.108	13	4	1	83
PL.59225	PL.59224	ABC	#2 ACSR	7.33Y	122.2	0.05	2.75	27.71	16	585	172	96	0.22	0.0	2.344	0.069	0	0	0	82
PL.41066	PL.59225	A	#2 ACSR	7.33Y	122.2	0.00	2.75	0.54	0	4	2	89	0.00	0.0	2.349	0.006	0	0	0	1
PD.6289	PL.41066	A	40QA	7.33Y	122.2	0.00	2.75	0.54	1	4	2	89	0.00	0.0	2.349	0.006	0	0	0	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.60650	PD.6289	A	#2 ACSR	7.33Y	122.2	0.00	2.75	0.54	0	4	2	89	0.00	0.0	2.386	0.036	4	2	1	1
PL.40549	PL.59225	ABC	#2 ACSR	7.32Y	122.1	0.18	2.93	27.53	16	582	170	96	0.80	0.1	2.601	0.257	0	0	0	81
PL.41067	PL.40549	ABC	#2 ACSR	7.32Y	122.0	0.10	3.03	27.53	16	581	170	96	0.45	0.1	2.745	0.145	0	0	0	81
PL.41068	PL.41067	ABC	#2 ACSR	7.31Y	121.9	0.06	3.10	27.53	16	580	169	96	0.27	0.0	2.833	0.088	0	0	0	81
PL.64556	PL.41068	ABC	#2 ACSR	7.31Y	121.9	0.02	3.12	26.53	15	559	163	96	0.10	0.0	2.869	0.036	10	3	1	80
PL.64557	PL.64556	ABC	#2 ACSR	7.31Y	121.8	0.05	3.17	26.06	15	549	160	96	0.23	0.0	2.951	0.082	0	0	0	79
PL.62172	PL.64557	ABC	#1/0 ACSR	7.31Y	121.8	0.05	3.23	26.06	11	549	160	96	0.20	0.0	3.064	0.113	11	3	1	79
PL.62174	PL.62172	A	#1/0 ACSR	7.31Y	121.8	0.01	3.23	3.70	2	26	8	96	0.00	0.0	3.233	0.169	26	8	1	1
PL.62173	PL.62172	B	#4 ACSR	7.31Y	121.8	0.00	3.23	7.15	5	50	15	96	0.00	0.0	3.069	0.006	0	0	0	4
PD.8096	PL.62173	B	40QA	7.31Y	121.8	0.00	3.23	7.15	18	50	15	96	0.00	0.0	3.069	0.006	0	0	0	4
PL.53361	PD.8096	B	#4 ACSR	7.31Y	121.8	0.01	3.24	7.15	5	50	15	96	0.00	0.0	3.112	0.043	12	4	1	4
PL.53362	PL.53361	B	#4 ACSR	7.30Y	121.7	0.08	3.32	5.40	4	38	11	96	0.02	0.1	3.544	0.432	16	5	1	3
PL.53360	PL.53362	B	#4 ACSR	7.30Y	121.7	0.01	3.33	1.01	1	7	2	96	0.00	0.0	3.685	0.140	0	0	0	1
PL.41071	PL.53360	B	#4 ACSR	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	3.780	0.096	0	0	0	0
PL.41072	PL.41071	B	#4 ACSR	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	3.855	0.075	0	0	0	0
PL.41074	PL.53360	B	#4 ACSR	7.30Y	121.7	0.00	3.33	1.01	1	7	2	96	0.00	0.0	3.832	0.148	7	2	1	1
PL.41075	PL.41074	B	#4 ACSR	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	3.873	0.041	0	0	0	0
PL.41073	PL.41075	B	#4 ACSR	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	3.914	0.041	0	0	0	0
PL.53359	PL.53362	B	#1/0 ACSR	7.30Y	121.7	0.00	3.32	2.12	1	15	4	97	0.00	0.0	3.590	0.046	15	4	1	1
PL.62175	PL.62172	ABC	#1/0 ACSR	7.30Y	121.7	0.04	3.26	21.95	10	462	135	96	0.11	0.0	3.154	0.090	7	2	1	73
PL.41076	PL.62175	ABC	#1/0 ACSR	7.30Y	121.7	0.05	3.31	21.62	9	455	133	96	0.16	0.0	3.286	0.132	0	0	0	72
PL.57617	PL.41076	ABC	#1/0 ACSR	7.30Y	121.6	0.08	3.39	21.62	9	455	133	96	0.24	0.1	3.477	0.192	0	0	0	72
PL.57618	PL.57617	ABC	#1/0 ACSR	7.29Y	121.6	0.03	3.42	21.21	9	446	130	96	0.10	0.0	3.560	0.082	13	4	2	70
PL.40459	PL.57618	ABC	#1/0 ACSR	7.29Y	121.6	0.02	3.44	19.25	8	404	118	96	0.05	0.0	3.614	0.055	0	0	0	64
PL.53352	PL.40459	ABC	#1/0 ACSR	7.29Y	121.5	0.02	3.46	19.25	8	404	118	96	0.06	0.0	3.680	0.066	5	2	1	64
PL.53356	PL.53352	ABC	#1/0 ACSR	7.29Y	121.5	0.02	3.48	19.00	8	399	116	96	0.04	0.0	3.730	0.050	39	11	4	63
PL.60656	PL.53356	ABC	#1/0 ACSR	7.29Y	121.5	0.03	3.51	17.13	7	360	105	96	0.07	0.0	3.820	0.090	0	0	0	59
PL.60654	PL.60656	B	#2 ACSR	7.29Y	121.5	0.00	3.51	0.00	0	0	0	100	0.00	0.0	3.860	0.040	0	0	0	0
PL.40460	PL.60654	B	#2 ACSR	7.29Y	121.5	0.00	3.51	0.00	0	0	0	100	0.00	0.0	3.911	0.051	0	0	0	0
PL.63338	PL.60656	B	#4 ACSR	7.29Y	121.5	0.00	3.51	6.43	5	45	13	96	0.00	0.0	3.823	0.003	0	0	0	7
PD.9414	PL.63338	B	30T	7.29Y	121.5	0.00	3.51	6.43	0	45	13	96	0.00	0.0	3.823	0.003	0	0	0	7

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.63339	PD.9414	B	#4 ACSR	7.29Y	121.5	0.01	3.51	6.43	5	45	13	96	0.00	0.0	3.847	0.024	0	0	0	7
PL.63340	PL.63339	B	#4 ACSR	7.29Y	121.5	0.01	3.52	6.43	5	45	13	96	0.00	0.0	3.871	0.023	0	0	0	7
PL.60661	PL.63340	B	#1/0 ACSR	7.29Y	121.5	0.00	3.52	1.67	1	12	3	97	0.00	0.0	4.002	0.131	12	3	1	1
PL.60659	PL.63340	B	#4 ACSR	7.29Y	121.5	0.02	3.54	3.07	2	21	6	96	0.00	0.0	4.011	0.141	5	2	1	4
PL.52523	PL.60659	B	#4 ACSR	7.29Y	121.5	0.01	3.55	2.31	2	16	5	95	0.00	0.0	4.147	0.136	7	2	1	3
PL.52522	PL.52523	B	#4 ACSR	7.29Y	121.4	0.00	3.55	1.32	1	9	3	95	0.00	0.0	4.207	0.060	4	1	1	2
PL.52524	PL.52522	B	#4 ACSR	7.29Y	121.4	0.00	3.55	0.72	1	5	1	98	0.00	0.0	4.373	0.166	5	1	1	1
PL.60660	PL.63340	B	#1/0 ACSR	7.29Y	121.5	0.00	3.52	1.69	1	12	3	97	0.00	0.0	3.896	0.026	12	3	2	2
PL.60655	PL.60656	ABC	#1/0 ACSR	7.29Y	121.5	0.01	3.52	14.98	7	315	92	96	0.03	0.0	3.862	0.042	0	0	0	52
PL.60653	PL.60655	ABC	#1/0 ACSR	7.29Y	121.4	0.06	3.58	14.40	6	302	88	96	0.12	0.0	4.094	0.232	10	3	1	51
PL.40967	PL.60653	ABC	#1/0 ACSR	7.28Y	121.4	0.01	3.59	13.95	6	293	85	96	0.02	0.0	4.135	0.041	0	0	0	50
PL.40998	PL.40967	ABC	#1/0 ACSR	7.28Y	121.4	0.01	3.60	13.95	6	293	85	96	0.02	0.0	4.167	0.032	0	0	0	50
PL.60705	PL.40998	ABC	#1/0 ACSR	7.28Y	121.4	0.02	3.61	13.25	6	278	81	96	0.03	0.0	4.231	0.064	0	0	2	47
PL.60706	PL.60705	ABC	#1/0 ACSR	7.28Y	121.4	0.03	3.64	13.22	6	277	81	96	0.06	0.0	4.353	0.122	0	0	0	45
PL.40999	PL.60706	B	6 A (CWC)	7.28Y	121.4	0.00	3.65	17.27	12	121	35	96	0.00	0.0	4.359	0.006	0	0	0	20
PD.6297	PL.40999	B	40QA	7.28Y	121.4	0.00	3.65	17.27	43	121	35	96	0.00	0.0	4.359	0.006	0	0	0	20
PL.41000	PD.6297	B	6 A (CWC)	7.28Y	121.3	0.03	3.67	17.27	12	121	35	96	0.03	0.0	4.395	0.036	0	0	0	20
PL.40349	PL.41000	B	6 A (CWC)	7.28Y	121.3	0.00	3.68	0.92	1	6	2	95	0.00	0.0	4.475	0.080	6	2	1	1
PL.41001	PL.41000	B	6 A (CWC)	7.27Y	121.2	0.08	3.76	16.35	12	114	33	96	0.07	0.1	4.508	0.113	0	0	0	19
PL.41002	PL.41001	B	6 A (CWC)	7.27Y	121.1	0.13	3.89	16.35	12	114	33	96	0.11	0.1	4.695	0.187	13	4	1	19
PL.41003	PL.41002	B	6 A (CWC)	7.26Y	121.0	0.06	3.95	14.51	10	101	29	96	0.04	0.0	4.785	0.089	3	1	1	18
PL.41004	PL.41003	B	6 A (CWC)	7.26Y	121.0	0.05	4.00	14.10	10	98	29	96	0.04	0.0	4.872	0.087	8	2	2	17
PL.53353	PL.41004	B	6 A (CWC)	7.26Y	121.0	0.04	4.04	13.02	9	91	26	96	0.03	0.0	4.942	0.070	10	3	1	15
PL.53354	PL.53353	B	6 A (CWC)	7.26Y	120.9	0.02	4.06	4.85	3	34	10	96	0.00	0.0	5.014	0.072	3	1	1	5
PL.40510	PL.53354	B	6 A (CWC)	7.26Y	120.9	0.01	4.07	4.20	3	29	8	96	0.00	0.0	5.101	0.087	8	2	1	3
PL.40511	PL.40510	B	6 A (CWC)	7.25Y	120.9	0.03	4.10	3.03	2	21	6	96	0.00	0.0	5.329	0.228	2	1	1	2
PL.41134	PL.40511	B	6 A (CWC)	7.25Y	120.9	0.00	4.11	2.71	2	19	5	97	0.00	0.0	5.391	0.062	19	5	1	1
PL.40700	PL.53354	B	6 A (CWC)	7.26Y	120.9	0.00	4.06	0.24	0	2	0	100	0.00	0.0	5.068	0.054	2	0	1	1
PL.53355	PL.53353	B	6 A (CWC)	7.26Y	120.9	0.04	4.08	6.80	5	47	14	96	0.01	0.0	5.056	0.114	0	0	1	9
PL.41135	PL.53355	B	6 A (CWC)	7.25Y	120.9	0.01	4.09	6.79	5	47	14	96	0.00	0.0	5.104	0.047	8	2	1	8
PL.56757	PL.41135	B	6 A (CWC)	7.25Y	120.9	0.00	4.10	1.50	1	10	3	96	0.00	0.0	5.180	0.076	10	3	1	1

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.56758	PL.56757	B	6 A (CWC)	7.25Y	120.9	0.00	4.10	0.00	0	0	0	100	0.00	0.0	5.411	0.232	0	0	0	0
PL.41140	PL.56758	B	6 A (CWC)	7.25Y	120.9	0.00	4.10	0.00	0	0	0	100	0.00	0.0	5.527	0.116	0	0	0	0
PL.41136	PL.41135	B	6 A (CWC)	7.25Y	120.9	0.01	4.11	4.18	3	29	8	96	0.00	0.0	5.178	0.074	0	0	2	6
PL.41137	PL.41136	B	#4 ACSR	7.25Y	120.9	0.00	4.11	1.58	1	11	3	96	0.00	0.0	5.216	0.038	7	2	1	2
PL.41138	PL.41137	B	#4 ACSR	7.25Y	120.9	0.00	4.11	0.56	0	4	1	97	0.00	0.0	5.282	0.066	4	1	1	1
PL.60716	PL.41136	B	6 A (CWC)	7.25Y	120.9	0.00	4.11	2.55	2	18	5	96	0.00	0.0	5.224	0.046	16	5	1	2
PL.60717	PL.60716	B	6 A (CWC)	7.25Y	120.9	0.00	4.11	0.26	0	2	1	89	0.00	0.0	5.300	0.076	0	0	0	1
PL.41139	PL.60717	B	6 A (CWC)	7.25Y	120.9	0.00	4.11	0.26	0	2	1	89	0.00	0.0	5.340	0.040	0	0	0	1
PL.40329	PL.41139	B	1/0 AL URD	7.25Y	120.9	0.00	4.11	0.26	0	2	1	89	0.00	0.0	5.532	0.192	2	1	1	1
PL.40187	PL.60706	B	6 A (CWC)	7.28Y	121.4	0.00	3.64	11.98	9	84	24	96	0.00	0.0	4.359	0.006	0	0	0	11
PD.6317	PL.40187	B	40QA	7.28Y	121.4	0.00	3.64	11.98	30	84	24	96	0.00	0.0	4.359	0.006	0	0	0	11
PL.52579	PD.6317	B	6 A (CWC)	7.28Y	121.3	0.01	3.66	11.98	9	84	24	96	0.01	0.0	4.380	0.021	0	0	1	11
PL.52580	PL.52579	B	6 A (CWC)	7.26Y	121.1	0.28	3.94	11.98	9	84	24	96	0.18	0.2	4.892	0.511	0	0	0	10
PL.40484	PL.52580	B	6 A (CWC)	7.26Y	121.0	0.06	4.00	11.41	8	80	23	96	0.04	0.0	5.003	0.112	0	0	1	9
PL.40485	PL.40484	B	6 A (CWC)	7.26Y	121.0	0.04	4.03	11.35	8	79	23	96	0.02	0.0	5.076	0.072	0	0	0	8
PL.40486	PL.40485	B	6 A (CWC)	7.26Y	120.9	0.03	4.07	9.52	7	66	19	96	0.02	0.0	5.156	0.081	8	2	1	7
PL.40487	PL.40486	B	6 A (CWC)	7.25Y	120.8	0.08	4.15	8.38	6	58	17	96	0.04	0.1	5.376	0.219	0	0	0	6
PL.52624	PL.40487	B	6 A (CWC)	7.25Y	120.8	0.03	4.18	8.38	6	58	17	96	0.01	0.0	5.481	0.105	20	6	1	6
PL.52625	PL.52624	B	6 A (CWC)	7.25Y	120.8	0.03	4.22	5.50	4	38	11	96	0.01	0.0	5.608	0.127	0	0	0	5
PL.40488	PL.52625	B	6 A (CWC)	7.25Y	120.8	0.02	4.24	5.50	4	38	11	96	0.01	0.0	5.687	0.079	0	0	0	5
PL.40489	PL.40488	B	6 A (CWC)	7.25Y	120.8	0.01	4.25	5.50	4	38	11	96	0.00	0.0	5.737	0.050	13	4	1	5
PL.40490	PL.40489	B	6 A (CWC)	7.24Y	120.7	0.01	4.26	3.70	3	26	7	97	0.00	0.0	5.805	0.069	0	0	0	4
PL.52527	PL.40490	B	6 A (CWC)	7.24Y	120.7	0.01	4.27	3.07	2	21	6	96	0.00	0.0	5.855	0.050	0	0	1	3
PL.52622	PL.52527	B	6 A (CWC)	7.24Y	120.7	0.01	4.28	3.06	2	21	6	96	0.00	0.0	5.932	0.077	0	0	0	2
PL.52526	PL.52622	B	#1/0 ACSR	7.24Y	120.7	0.00	4.28	1.34	1	9	3	95	0.00	0.0	5.968	0.036	9	3	1	1
PL.52525	PL.52622	B	6 A (CWC)	7.24Y	120.7	0.00	4.28	1.72	1	12	3	97	0.00	0.0	6.024	0.093	12	3	1	1
PL.52623	PL.40490	B	#1/0 ACSR	7.24Y	120.7	0.00	4.26	0.63	0	4	1	97	0.00	0.0	5.895	0.090	4	1	1	1
PL.39663	PL.40488	B	6 A (CWC)	7.25Y	120.8	0.00	4.24	0.00	0	0	0	100	0.00	0.0	5.756	0.069	0	0	0	0
PL.40198	PL.40485	B	#4 ACSR	7.26Y	121.0	0.00	4.03	1.83	1	13	4	96	0.00	0.0	5.126	0.051	13	4	1	1
PL.40354	PL.40484	B	6 A (CWC)	7.26Y	121.0	0.00	4.00	0.00	0	0	0	100	0.00	0.0	5.340	0.336	0	0	0	0
PL.40723	PL.52580	B	#4 ACSR	7.26Y	121.1	0.00	3.94	0.56	0	4	1	97	0.00	0.0	4.967	0.076	4	1	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40576	PL.60706	B	#2 ACSR	7.28Y	121.3	0.02	3.66	10.43	6	73	21	96	0.01	0.0	4.417	0.064	0	0	0	14
PL.40491	PL.40576	B	#2 ACSR	7.28Y	121.3	0.00	3.66	10.43	6	73	21	96	0.00	0.0	4.423	0.006	0	0	0	14
PD.6286	PL.40491	B	40QA	7.28Y	121.3	0.00	3.66	10.43	26	73	21	96	0.00	0.0	4.423	0.006	0	0	0	14
PL.52577	PD.6286	B	#2 ACSR	7.27Y	121.2	0.09	3.75	10.43	6	73	21	96	0.05	0.1	4.703	0.280	7	2	1	14
PL.52520	PL.52577	B	6 A (CWC)	7.27Y	121.2	0.00	3.76	1.01	1	7	2	96	0.00	0.0	4.828	0.125	3	1	1	2
PL.52521	PL.52520	B	6 A (CWC)	7.27Y	121.2	0.01	3.77	0.65	0	5	1	98	0.00	0.0	5.148	0.320	0	0	0	1
PL.40492	PL.52521	B	6 A (CWC)	7.27Y	121.2	0.00	3.77	0.65	0	5	1	98	0.00	0.0	5.264	0.116	5	1	1	1
PL.52578	PL.52577	B	6 A (CWC)	7.27Y	121.2	0.04	3.79	8.46	6	59	17	96	0.02	0.0	4.824	0.121	17	5	2	11
PL.40493	PL.52578	B	6 A (CWC)	7.27Y	121.2	0.03	3.82	6.01	4	42	12	96	0.01	0.0	4.936	0.112	1	0	1	9
PL.40494	PL.40493	B	6 A (CWC)	7.27Y	121.2	0.02	3.84	2.83	2	20	6	96	0.00	0.0	5.100	0.164	0	0	0	6
PL.40497	PL.40494	B	6 A (CWC)	7.27Y	121.2	0.00	3.85	0.59	0	4	1	97	0.00	0.0	5.281	0.181	0	0	0	1
PL.40355	PL.40497	B	#4 ACSR	7.27Y	121.1	0.00	3.85	0.59	0	4	1	97	0.00	0.0	5.440	0.159	4	1	1	1
PL.40498	PL.40497	B	6 A (CWC)	7.27Y	121.2	0.00	3.85	0.00	0	0	0	100	0.00	0.0	5.471	0.190	0	0	0	0
PL.40495	PL.40494	B	6 A (CWC)	7.27Y	121.1	0.01	3.85	2.24	2	16	5	95	0.00	0.0	5.182	0.082	0	0	0	5
PL.40496	PL.40495	B	6 A (CWC)	7.27Y	121.1	0.00	3.86	2.24	2	16	5	95	0.00	0.0	5.223	0.040	0	0	1	5
PL.59230	PL.40496	B	6 A (CWC)	7.27Y	121.1	0.02	3.88	2.22	2	15	4	97	0.00	0.0	5.520	0.297	10	3	2	4
PL.59231	PL.59230	B	6 A (CWC)	7.27Y	121.1	0.00	3.88	0.74	1	5	2	93	0.00	0.0	5.586	0.066	5	2	1	2
PL.40818	PL.59231	B	6 A (CWC)	7.27Y	121.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	5.628	0.042	0	0	1	1
PL.40140	PL.40495	B	6 A (CWC)	7.27Y	121.1	0.00	3.85	0.00	0	0	0	100	0.00	0.0	5.296	0.113	0	0	0	0
PL.40139	PL.40493	B	6 A (CWC)	7.27Y	121.2	0.00	3.82	0.00	0	0	0	100	0.00	0.0	5.204	0.268	0	0	0	0
PL.52575	PL.40493	B	#4 ACSR	7.27Y	121.2	0.01	3.83	3.02	2	21	6	96	0.00	0.0	5.027	0.091	12	4	1	2
PL.52576	PL.52575	B	#1/0 ACSR	7.27Y	121.2	0.00	3.83	1.25	1	9	3	95	0.00	0.0	5.077	0.049	9	3	1	1
PL.40968	PL.40998	B	#4 ACSR	7.28Y	121.4	0.00	3.60	2.10	2	15	4	97	0.00	0.0	4.190	0.023	15	4	3	3
PL.40969	PL.40968	B	#4 ACSR	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	4.244	0.054	0	0	0	0
PL.60657	PL.60655	A	#1/0 ACSR	7.29Y	121.5	0.00	3.52	1.74	1	12	4	95	0.00	0.0	3.865	0.003	0	0	0	1
PD.9054	PL.60657	A	15QA	7.29Y	121.5	0.00	3.52	1.74	0	12	4	95	0.00	0.0	3.865	0.003	0	0	0	1
PL.60658	PD.9054	A	#1/0 ACSR	7.29Y	121.5	0.00	3.52	1.74	1	12	4	95	0.00	0.0	3.924	0.059	12	4	1	1
PL.41077	PL.57618	B	6 A (CWC)	7.29Y	121.6	0.00	3.42	4.04	3	28	8	96	0.00	0.0	3.565	0.006	0	0	0	4
PD.6287	PL.41077	B	30T	7.29Y	121.6	0.00	3.42	4.04	0	28	8	96	0.00	0.0	3.565	0.006	0	0	0	4
PL.41078	PD.6287	B	6 A (CWC)	7.29Y	121.5	0.04	3.46	4.04	3	28	8	96	0.01	0.0	3.758	0.193	0	0	0	4
PL.41080	PL.41078	B	#4 ACSR	7.29Y	121.5	0.01	3.47	3.67	3	26	7	97	0.00	0.0	3.847	0.089	0	0	0	3

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.41081	PL.41080	B	#4 ACSR	7.29Y	121.5	0.01	3.49	3.67	3	26	7	97	0.00	0.0	3.946	0.099	7	2	1	3
PL.57940	PL.41081	B	#4 ACSR	7.29Y	121.5	0.00	3.49	2.73	2	19	6	95	0.00	0.0	3.982	0.036	19	6	2	2
PL.41079	PL.41078	B	6 A (CWC)	7.29Y	121.5	0.00	3.46	0.37	0	3	1	95	0.00	0.0	3.975	0.217	3	1	1	1
PL.57619	PL.57617	A	#1/0 ACSR	7.30Y	121.6	0.00	3.39	1.23	1	9	3	95	0.00	0.0	3.481	0.004	0	0	0	2
PD.8389	PL.57619	A	15T	7.30Y	121.6	0.00	3.39	1.23	0	9	3	95	0.00	0.0	3.481	0.004	0	0	0	2
PL.57620	PD.8389	A	#1/0 ACSR	7.30Y	121.6	0.00	3.39	1.23	1	9	3	95	0.00	0.0	3.535	0.054	9	3	2	2
PL.41069	PL.41068	C	#2 ACSR	7.31Y	121.9	0.00	3.10	3.01	2	21	6	96	0.00	0.0	2.839	0.006	0	0	0	1
PD.6330	PL.41069	C	60QA	7.31Y	121.9	0.00	3.10	3.01	5	21	6	96	0.00	0.0	2.839	0.006	0	0	0	1
PL.41070	PD.6330	C	#2 ACSR	7.31Y	121.9	0.00	3.10	3.01	2	21	6	96	0.00	0.0	2.855	0.016	21	6	1	1
PL.40348	PL.40540	B	#1/0 ACSR	7.35Y	122.5	0.00	2.51	0.07	0	1	0	100	0.00	0.0	2.030	0.031	1	0	1	1
PL.40541	PL.40955	A	#2 ACSR	7.35Y	122.5	0.00	2.46	2.90	2	20	6	96	0.00	0.0	1.946	0.006	0	0	0	3
PD.6288	PL.40541	A	10QA	7.35Y	122.5	0.00	2.46	2.90	0	20	6	96	0.00	0.0	1.946	0.006	0	0	0	3
PL.40542	PD.6288	A	#2 ACSR	7.35Y	122.5	0.00	2.46	2.90	2	20	6	96	0.00	0.0	1.967	0.021	20	6	2	3
PL.40543	PL.40542	A	#2 ACSR	7.35Y	122.5	0.00	2.46	0.02	0	0	0	100	0.00	0.0	1.976	0.009	0	0	1	1
PL.40953	PL.62178	A	6 A (CWC)	7.35Y	122.6	0.00	2.42	3.96	3	28	8	96	0.00	0.0	1.897	0.006	0	0	0	3
PD.6315	PL.40953	A	60QA	7.35Y	122.6	0.00	2.42	3.96	7	28	8	96	0.00	0.0	1.897	0.006	0	0	0	3
PL.40954	PD.6315	A	6 A (CWC)	7.35Y	122.6	0.00	2.43	3.96	3	28	8	96	0.00	0.0	1.933	0.036	28	8	3	3
PL.62177	PL.62180	C	6 A (CWC)	7.36Y	122.7	0.00	2.34	2.58	2	18	5	96	0.00	0.0	1.795	0.006	0	0	0	2
PD.6294	PL.62177	C	60QA	7.36Y	122.7	0.00	2.34	2.58	4	18	5	96	0.00	0.0	1.795	0.006	0	0	0	2
PL.40952	PD.6294	C	6 A (CWC)	7.36Y	122.7	0.00	2.34	2.58	2	18	5	96	0.00	0.0	1.803	0.009	18	5	2	2
PL.40950	PL.40949	A	#1/0 ACSR	7.36Y	122.7	0.00	2.26	0.82	0	6	2	95	0.00	0.0	1.704	0.006	0	0	0	2
PD.6314	PL.40950	A	60QA	7.36Y	122.7	0.00	2.26	0.82	1	6	2	95	0.00	0.0	1.704	0.006	0	0	0	2
PL.40951	PD.6314	A	#1/0 ACSR	7.36Y	122.7	0.00	2.26	0.82	0	6	2	95	0.00	0.0	1.739	0.034	6	2	2	2
PL.64413	PL.40951	A	#1/0 ACSR	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	1.802	0.064	0	0	0	0
PL.62182	PL.40433	ABC	336 MCM AC	7.36Y	122.7	0.08	2.33	135.76	26	2872	864	96	1.23	0.0	1.739	0.079	0	0	0	383
PL.62183	PL.62182	ABC	#1/0 ACSR	7.35Y	122.5	0.13	2.46	135.76	59	2871	861	96	2.54	0.1	1.791	0.052	0	0	0	383
PL.62184	PL.62183	ABC	#1/0 ACSR	7.35Y	122.5	0.05	2.51	135.76	59	2869	859	96	0.93	0.0	1.810	0.019	0	0	0	383
PL.62185	PL.62184	ABC	#1/0 ACSR	7.35Y	122.5	0.03	2.54	41.90	18	883	273	96	0.17	0.0	1.847	0.037	0	0	0	140
PD.9283	PL.62185	ABC	70L	7.35Y	122.5	0.00	2.54	41.90	60	883	272	96	0.00	0.0	1.847	0.037	0	0	0	140
PL.62186	PD.9283	ABC	#1/0 ACSR	7.34Y	122.3	0.18	2.72	41.90	18	883	272	96	1.10	0.1	2.082	0.235	3	1	1	140
PL.62181	PL.62186	ABC	#1/0 ACSR	7.32Y	122.0	0.32	3.04	41.74	18	878	270	96	1.95	0.2	2.503	0.421	0	0	0	139

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.39799	PL.62181	ABC	#1/0 ACSR	7.32Y	121.9	0.04	3.08	41.74	18	876	268	96	0.24	0.0	2.554	0.051	0	0	0	139
PL.39800	PL.39799	ABC	#1/0 ACSR	7.31Y	121.9	0.02	3.10	41.74	18	876	268	96	0.13	0.0	2.582	0.028	0	0	0	139
PL.39801	PL.39800	C	#2 ACSR	7.31Y	121.9	0.00	3.10	1.96	1	14	4	96	0.00	0.0	2.588	0.006	0	0	0	1
PD.6354	PL.39801	C	40QA	7.31Y	121.9	0.00	3.10	1.96	5	14	4	96	0.00	0.0	2.588	0.006	0	0	0	1
PL.39802	PD.6354	C	#2 ACSR	7.31Y	121.9	0.00	3.10	1.96	1	14	4	96	0.00	0.0	2.617	0.029	14	4	1	1
PL.40128	PL.39800	ABC	#1/0 ACSR	7.31Y	121.8	0.09	3.19	41.09	18	862	264	96	0.51	0.1	2.696	0.114	0	0	0	138
PL.60688	PL.40128	ABC	#1/0 ACSR	7.30Y	121.7	0.08	3.26	40.39	18	847	259	96	0.46	0.1	2.802	0.106	0	0	0	137
PL.60824	PL.60688	A	#1/0 ACSR	7.30Y	121.7	0.00	3.26	1.60	1	11	3	96	0.00	0.0	2.806	0.004	0	0	0	1
PD.9055	PL.60824	A	10T	7.30Y	121.7	0.00	3.26	1.60	0	11	3	96	0.00	0.0	2.806	0.004	0	0	0	1
PL.60825	PD.9055	A	#1/0 ACSR	7.30Y	121.7	0.00	3.27	1.60	1	11	3	96	0.00	0.0	3.069	0.264	11	3	1	1
PL.60689	PL.60688	ABC	#1/0 ACSR	7.30Y	121.7	0.03	3.29	39.86	17	835	256	96	0.15	0.0	2.838	0.035	0	0	0	136
PL.40130	PL.60689	C	#4 ACSR	7.30Y	121.7	0.00	3.29	0.91	1	6	2	95	0.00	0.0	2.843	0.006	0	0	0	1
PD.6298	PL.40130	C	40QA	7.30Y	121.7	0.00	3.29	0.91	2	6	2	95	0.00	0.0	2.843	0.006	0	0	0	1
PL.40131	PD.6298	C	#4 ACSR	7.30Y	121.7	0.00	3.29	0.91	1	6	2	95	0.00	0.0	2.874	0.030	0	0	0	1
PL.40129	PL.40131	C	#4 ACSR	7.30Y	121.7	0.00	3.29	0.00	0	0	0	100	0.00	0.0	2.967	0.093	0	0	0	0
PL.40138	PL.40131	C	#4 ACSR	7.30Y	121.7	0.00	3.29	0.91	1	6	2	95	0.00	0.0	2.907	0.033	6	2	1	1
PL.40132	PL.60689	ABC	#1/0 ACSR	7.29Y	121.5	0.21	3.50	39.55	17	829	254	96	1.19	0.1	3.123	0.285	0	0	0	135
PL.40848	PL.40132	ABC	#1/0 ACSR	7.29Y	121.5	0.04	3.54	38.82	17	812	248	96	0.25	0.0	3.184	0.061	0	0	0	133
PL.40854	PL.40848	ABC	#1/0 ACSR	7.27Y	121.2	0.26	3.80	36.30	16	759	233	96	1.36	0.2	3.571	0.387	0	0	0	128
PL.40855	PL.40854	ABC	#1/0 ACSR	7.27Y	121.1	0.08	3.88	36.30	16	757	231	96	0.43	0.1	3.694	0.123	0	0	0	128
PL.40856	PL.40855	ABC	#1/0 ACSR	7.26Y	121.0	0.14	4.02	36.30	16	757	231	96	0.76	0.1	3.911	0.217	0	0	0	128
PL.40857	PL.40856	ABC	#1/0 ACSR	7.25Y	120.8	0.19	4.21	36.30	16	756	230	96	1.00	0.1	4.196	0.285	3	1	1	128
PL.40858	PL.40857	ABC	#1/0 ACSR	7.24Y	120.7	0.04	4.25	36.18	16	753	228	96	0.22	0.0	4.260	0.064	0	0	0	127
PL.40859	PL.40858	ABC	#1/0 ACSR	7.24Y	120.6	0.11	4.36	35.24	15	733	222	96	0.54	0.1	4.424	0.164	0	0	0	125
PL.40862	PL.40859	ABC	#1/0 ACSR	7.24Y	120.6	0.04	4.40	34.62	15	719	218	96	0.22	0.0	4.494	0.070	0	0	0	122
PL.40863	PL.40862	A	#4 ACSR	7.24Y	120.6	0.00	4.40	0.00	0	0	0	100	0.00	0.0	4.500	0.006	0	0	0	0
PD.6296	PL.40863	A	40QA	7.24Y	120.6	0.00	4.40	0.00	0	0	0	100	0.00	0.0	4.500	0.006	0	0	0	0
PL.40864	PD.6296	A	#4 ACSR	7.24Y	120.6	0.00	4.40	0.00	0	0	0	100	0.00	0.0	4.509	0.010	0	0	0	0
PL.40865	PL.40862	ABC	#1/0 ACSR	7.22Y	120.3	0.28	4.68	34.62	15	719	218	96	1.39	0.2	4.930	0.436	0	0	0	122
PL.40866	PL.40865	ABC	#1/0 ACSR	7.21Y	120.2	0.14	4.82	34.62	15	718	217	96	0.71	0.1	5.154	0.223	0	0	0	122
PL.40868	PL.40866	C	#4 ACSR	7.21Y	120.2	0.00	4.82	0.00	0	0	0	100	0.00	0.0	5.159	0.006	0	0	0	0

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.6368	PL.40868	C	40QA	7.21Y	120.2	0.00	4.82	0.00	0	0	0	100	0.00	0.0	5.159	0.006	0	0	0	0
PL.40869	PD.6368	C	#4 ACSR	7.21Y	120.2	0.00	4.82	0.00	0	0	0	100	0.00	0.0	5.184	0.025	0	0	0	0
PL.40733	PL.40866	C	#4 ACSR	7.21Y	120.2	0.00	4.82	0.00	0	0	0	100	0.00	0.0	5.192	0.038	0	0	0	0
PL.40867	PL.40866	ABC	#1/0 ACSR	7.21Y	120.2	0.02	4.84	34.07	15	706	213	96	0.12	0.0	5.193	0.040	0	0	0	121
PL.41082	PL.40867	B	6 A (CWC)	7.21Y	120.2	0.00	4.85	3.92	3	27	8	96	0.00	0.0	5.199	0.006	0	0	0	4
PD.6357	PL.41082	B	40QA	7.21Y	120.2	0.00	4.85	3.92	10	27	8	96	0.00	0.0	5.199	0.006	0	0	0	4
PL.41083	PD.6357	B	6 A (CWC)	7.21Y	120.1	0.01	4.85	3.92	3	27	8	96	0.00	0.0	5.228	0.029	0	0	0	4
PL.41086	PL.41083	B	6 A (CWC)	7.21Y	120.1	0.01	4.86	3.92	3	27	8	96	0.00	0.0	5.302	0.074	20	6	2	4
PL.41087	PL.41086	B	6 A (CWC)	7.21Y	120.1	0.00	4.86	1.07	1	7	2	96	0.00	0.0	5.496	0.194	7	2	1	2
PL.41088	PL.41087	B	6 A (CWC)	7.21Y	120.1	0.00	4.87	0.05	0	0	0	100	0.00	0.0	5.806	0.310	0	0	0	1
PL.41089	PL.41088	B	6 A (CWC)	7.21Y	120.1	0.00	4.87	0.05	0	0	0	100	0.00	0.0	5.981	0.174	0	0	0	1
PL.40499	PL.41089	B	6 A (CWC)	7.21Y	120.1	0.00	4.87	0.05	0	0	0	100	0.00	0.0	6.173	0.192	0	0	0	1
PL.40500	PL.40499	B	6 A (CWC)	7.21Y	120.1	0.00	4.87	0.05	0	0	0	100	0.00	0.0	6.370	0.198	0	0	1	1
PL.40145	PL.40499	B	#4 ACSR	7.21Y	120.1	0.00	4.87	0.00	0	0	0	100	0.00	0.0	6.479	0.306	0	0	0	0
PL.40288	PL.40867	ABC	#1/0 ACSR	7.19Y	119.8	0.38	5.22	32.76	14	678	205	96	1.81	0.3	5.826	0.633	0	0	0	117
PL.52675	PL.40288	ABC	#1/0 ACSR	7.18Y	119.7	0.12	5.34	32.76	14	677	203	96	0.55	0.1	6.019	0.193	0	0	0	117
PL.52678	PL.52675	ABC	#1/0 ACSR	7.18Y	119.6	0.06	5.40	32.76	14	676	202	96	0.30	0.0	6.125	0.106	0	0	0	117
PL.52679	PL.52678	ABC	#1/0 ACSR	7.17Y	119.5	0.12	5.52	32.76	14	676	202	96	0.58	0.1	6.327	0.201	0	0	0	117
PL.52677	PL.52679	C	#2 ACSR	7.17Y	119.5	0.00	5.52	0.00	0	0	0	100	0.00	0.0	6.332	0.006	0	0	0	0
PD.6351	PL.52677	C	40QA	7.17Y	119.5	0.00	5.52	0.00	0	0	0	100	0.00	0.0	6.332	0.006	0	0	0	0
PL.40550	PD.6351	C	#2 ACSR	7.17Y	119.5	0.00	5.52	0.00	0	0	0	100	0.00	0.0	6.361	0.029	0	0	0	0
PL.52676	PL.52679	ABC	#1/0 ACSR	7.16Y	119.4	0.11	5.63	32.76	14	675	202	96	0.52	0.1	6.508	0.181	0	0	0	117
PL.40551	PL.52676	ABC	#1/0 ACSR	7.16Y	119.3	0.06	5.69	32.76	14	675	201	96	0.30	0.0	6.614	0.106	0	0	0	117
PL.64665	PL.40551	ABC	#1/0 ACSR	7.16Y	119.3	0.04	5.74	32.09	14	660	197	96	0.21	0.0	6.689	0.075	0	0	0	114
PL.64666	PL.64665	B	6 A (CWC)	7.16Y	119.3	0.01	5.74	21.53	15	148	43	96	0.01	0.0	6.695	0.006	0	0	0	29
PD.6391	PL.64666	B	35L	7.16Y	119.3	0.00	5.74	21.53	62	148	43	96	0.00	0.0	6.695	0.006	0	0	0	29
PL.41052	PD.6391	B	6 A (CWC)	7.15Y	119.2	0.02	5.77	21.53	15	148	43	96	0.03	0.0	6.718	0.022	0	0	0	29
PL.41053	PL.41052	B	6 A (CWC)	7.15Y	119.2	0.06	5.83	21.53	15	148	43	96	0.07	0.0	6.781	0.063	12	3	1	29
PL.40556	PL.41053	B	6 A (CWC)	7.14Y	119.1	0.10	5.92	19.79	14	136	40	96	0.10	0.1	6.891	0.110	3	1	2	28
PL.40501	PL.40556	B	6 A (CWC)	7.14Y	119.0	0.08	6.00	19.32	14	133	39	96	0.08	0.1	6.978	0.087	5	2	1	26
PL.41141	PL.40501	B	6 A (CWC)	7.14Y	119.0	0.04	6.05	18.56	13	127	37	96	0.04	0.0	7.030	0.052	0	0	0	25

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.57922	PL.41141	B	6 A (CWC)	7.13Y	118.9	0.04	6.09	18.56	13	127	37	96	0.04	0.0	7.080	0.050	0	0	0	25
PL.57923	PL.57922	B	6 A (CWC)	7.13Y	118.9	0.05	6.14	18.56	13	127	37	96	0.05	0.0	7.142	0.062	5	2	1	25
PL.41142	PL.57923	B	6 A (CWC)	7.13Y	118.9	0.01	6.15	17.78	13	122	35	96	0.01	0.0	7.155	0.012	1	0	1	24
PL.41143	PL.41142	B	6 A (CWC)	7.13Y	118.8	0.02	6.17	4.76	3	33	9	96	0.00	0.0	7.233	0.078	5	1	1	9
PL.41145	PL.41143	B	6 A (CWC)	7.13Y	118.8	0.05	6.22	4.08	3	28	8	96	0.01	0.0	7.522	0.289	2	0	1	8
PL.41146	PL.41145	B	6 A (CWC)	7.13Y	118.8	0.02	6.24	3.85	3	26	8	96	0.00	0.0	7.646	0.124	6	2	1	7
PL.41147	PL.41146	B	6 A (CWC)	7.13Y	118.8	0.01	6.25	2.95	2	20	6	96	0.00	0.0	7.795	0.149	16	5	4	6
PL.41148	PL.41147	B	6 A (CWC)	7.12Y	118.7	0.00	6.25	0.67	0	5	1	98	0.00	0.0	7.978	0.183	5	1	2	2
PL.41144	PL.41142	B	6 A (CWC)	7.13Y	118.8	0.05	6.20	12.82	9	88	25	96	0.03	0.0	7.246	0.092	11	3	1	14
PL.41149	PL.41144	B	6 A (CWC)	7.12Y	118.7	0.11	6.31	11.16	8	76	22	96	0.06	0.1	7.476	0.230	12	3	1	13
PL.41151	PL.41149	B	6 A (CWC)	7.12Y	118.6	0.04	6.35	9.47	7	65	19	96	0.02	0.0	7.576	0.100	0	0	0	12
PL.41152	PL.41151	B	6 A (CWC)	7.12Y	118.6	0.03	6.38	7.75	6	53	15	96	0.01	0.0	7.659	0.082	0	0	1	11
PL.41150	PL.41152	B	6 A (CWC)	7.11Y	118.5	0.09	6.47	7.71	6	53	15	96	0.04	0.1	7.932	0.274	4	1	1	10
PL.41153	PL.41150	B	6 A (CWC)	7.11Y	118.5	0.02	6.49	7.06	5	48	14	96	0.01	0.0	7.994	0.062	3	1	1	9
PL.40871	PL.41153	B	6 A (CWC)	7.11Y	118.5	0.06	6.55	6.57	5	45	13	96	0.02	0.0	8.189	0.195	5	1	1	8
PL.40872	PL.40871	B	6 A (CWC)	7.11Y	118.4	0.01	6.56	5.83	4	40	12	96	0.00	0.0	8.231	0.042	11	3	1	7
PL.40873	PL.40872	B	6 A (CWC)	7.11Y	118.4	0.02	6.58	4.20	3	29	8	96	0.00	0.0	8.329	0.098	0	0	0	6
PL.40874	PL.40873	B	6 A (CWC)	7.10Y	118.4	0.01	6.59	2.62	2	18	5	96	0.00	0.0	8.423	0.094	7	2	2	4
PL.40875	PL.40874	B	6 A (CWC)	7.10Y	118.4	0.01	6.59	1.54	1	11	3	96	0.00	0.0	8.607	0.184	11	3	2	2
PL.40876	PL.40873	B	6 A (CWC)	7.11Y	118.4	0.00	6.58	1.58	1	11	3	96	0.00	0.0	8.394	0.066	11	3	1	2
PL.60974	PL.40876	B	6 A (CWC)	7.11Y	118.4	0.00	6.58	0.00	0	0	0	100	0.00	0.0	8.547	0.153	0	0	0	1
PL.60727	PL.60974	B	#1/0 ACSR	7.11Y	118.4	0.00	6.58	0.00	0	0	0	100	0.00	0.0	8.603	0.056	0	0	0	1
PD.9060	PL.60727	B	15T	7.11Y	118.4	0.00	6.58	0.00	0	0	0	100	0.00	0.0	8.603	0.056	0	0	0	1
PL.60728	PD.9060	B	#1/0 ACSR	7.11Y	118.4	0.00	6.58	0.00	0	0	0	100	0.00	0.0	8.607	0.003	0	0	0	1
PL.60729	PL.60728	B	#1/0 ACSR	7.11Y	118.4	0.00	6.58	0.00	0	0	0	100	0.00	0.0	8.731	0.124	0	0	1	1
PL.60726	PL.60974	B	6 A (CWC)	7.11Y	118.4	0.00	6.58	0.00	0	0	0	100	0.00	0.0	9.441	0.894	0	0	0	0
PL.60673	PL.41151	B	6 A (CWC)	7.12Y	118.6	0.00	6.35	1.72	1	12	3	97	0.00	0.0	7.604	0.028	12	3	1	1
PL.64668	PL.64665	ABC	#1/0 ACSR	7.14Y	119.0	0.22	5.95	24.92	11	512	154	96	0.79	0.2	7.166	0.476	0	0	0	85
PL.64670	PL.64668	B	#1/0 ACSR	7.14Y	119.0	0.00	5.95	1.05	0	7	2	96	0.00	0.0	7.168	0.003	0	0	0	1
PD.9554	PL.64670	B	20T	7.14Y	119.0	0.00	5.95	1.05	0	7	2	96	0.00	0.0	7.168	0.003	0	0	0	1
PL.64671	PD.9554	B	#1/0 ACSR	7.14Y	119.0	0.00	5.96	1.05	0	7	2	96	0.00	0.0	7.223	0.054	7	2	1	1

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Balanced Voltage Drop Report
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Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.64669	PL.64668	ABC	#1/0 ACSR	7.12Y	118.6	0.40	6.35	24.57	11	504	151	96	1.42	0.3	8.050	0.884	0	0	1	84
PL.64667	PL.64669	ABC	#1/0 ACSR	7.12Y	118.6	0.04	6.39	24.56	11	503	149	96	0.15	0.0	8.141	0.091	0	0	0	83
PL.40195	PL.64667	B	6 A (CWC)	7.12Y	118.6	0.00	6.39	1.85	1	13	4	96	0.00	0.0	8.169	0.028	0	0	0	5
PL.40877	PL.40195	B	6 A (CWC)	7.12Y	118.6	0.00	6.39	1.85	1	13	4	96	0.00	0.0	8.175	0.006	0	0	0	5
PD.6390	PL.40877	B	35H	7.12Y	118.6	0.00	6.39	1.85	5	13	4	96	0.00	0.0	8.175	0.006	0	0	0	5
PL.40878	PD.6390	B	6 A (CWC)	7.12Y	118.6	0.00	6.40	1.85	1	13	4	96	0.00	0.0	8.223	0.048	5	1	2	5
PL.40879	PL.40878	B	6 A (CWC)	7.12Y	118.6	0.01	6.41	1.12	1	8	2	97	0.00	0.0	8.442	0.220	0	0	0	3
PL.40880	PL.40879	B	6 A (CWC)	7.12Y	118.6	0.00	6.41	1.12	1	8	2	97	0.00	0.0	8.487	0.044	0	0	0	3
PL.41154	PL.40880	B	6 A (CWC)	7.12Y	118.6	0.00	6.41	1.12	1	8	2	97	0.00	0.0	8.528	0.041	2	1	1	3
PL.41155	PL.41154	B	6 A (CWC)	7.12Y	118.6	0.00	6.41	0.81	1	6	2	95	0.00	0.0	8.585	0.057	0	0	1	2
PL.41156	PL.41155	B	6 A (CWC)	7.12Y	118.6	0.00	6.42	0.76	1	5	2	93	0.00	0.0	8.620	0.035	5	2	1	1
PL.41054	PL.41156	B	6 A (CWC)	7.12Y	118.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	8.703	0.083	0	0	0	0
PL.41055	PL.41054	B	6 A (CWC)	7.12Y	118.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	8.767	0.064	0	0	0	0
PL.41056	PL.41055	B	6 A (CWC)	7.12Y	118.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	8.857	0.090	0	0	0	0
PL.40155	PL.64667	ABC	#1/0 ACSR	7.12Y	118.6	0.02	6.41	23.95	10	490	146	96	0.07	0.0	8.186	0.045	0	0	0	78
PL.41057	PL.40155	ABC	#1/0 ACSR	7.12Y	118.6	0.00	6.41	23.95	10	490	145	96	0.01	0.0	8.192	0.006	0	0	0	78
PD.6389	PL.41057	ABC	35L	7.12Y	118.6	0.00	6.41	23.95	68	490	145	96	0.00	0.0	8.192	0.006	0	0	0	78
PL.41058	PD.6389	ABC	#1/0 ACSR	7.11Y	118.6	0.03	6.44	23.95	10	490	145	96	0.09	0.0	8.249	0.058	4	1	1	78
PL.41059	PL.41058	A	6 A (CWC)	7.11Y	118.6	0.00	6.44	0.56	0	4	1	97	0.00	0.0	8.255	0.006	0	0	0	1
PD.6281	PL.41059	A	25QA	7.11Y	118.6	0.00	6.44	0.56	2	4	1	97	0.00	0.0	8.255	0.006	0	0	0	1
PL.41060	PD.6281	A	6 A (CWC)	7.11Y	118.6	0.00	6.44	0.56	0	4	1	97	0.00	0.0	8.291	0.036	4	1	1	1
PL.41061	PL.41058	ABC	#1/0 ACSR	7.11Y	118.5	0.02	6.46	23.55	10	482	143	96	0.07	0.0	8.296	0.047	4	1	2	76
PL.41062	PL.41061	ABC	#1/0 ACSR	7.10Y	118.4	0.14	6.60	23.34	10	477	142	96	0.48	0.1	8.630	0.334	0	0	1	74
PL.41064	PL.41062	A	6 A (CWC)	7.10Y	118.4	0.00	6.60	1.11	1	8	2	97	0.00	0.0	8.636	0.006	0	0	0	1
PD.6280	PL.41064	A	25QA	7.10Y	118.4	0.00	6.60	1.11	4	8	2	97	0.00	0.0	8.636	0.006	0	0	0	1
PL.41065	PD.6280	A	6 A (CWC)	7.10Y	118.4	0.00	6.60	1.11	1	8	2	97	0.00	0.0	8.672	0.036	8	2	1	1
PL.41063	PL.41062	ABC	#1/0 ACSR	7.10Y	118.4	0.01	6.61	22.97	10	469	139	96	0.05	0.0	8.665	0.035	3	1	1	72
PL.41157	PL.41063	ABC	#1/0 ACSR	7.10Y	118.4	0.03	6.65	22.80	10	466	138	96	0.11	0.0	8.746	0.081	0	0	0	71
PL.58511	PL.41157	A	#1/0 ACSR	7.10Y	118.4	0.00	6.65	3.23	1	22	6	96	0.00	0.0	8.749	0.003	0	0	0	6
PD.8702	PL.58511	A	20T	7.10Y	118.4	0.00	6.65	3.23	0	22	6	96	0.00	0.0	8.749	0.003	0	0	0	6
PL.58512	PD.8702	A	#1/0 ACSR	7.10Y	118.3	0.00	6.65	3.23	1	22	6	96	0.00	0.0	8.794	0.045	12	3	1	6

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.58510	PL.58512	A	#1/0 ACSR	7.10Y	118.3	0.00	6.65	1.49	1	10	3	96	0.00	0.0	8.817	0.023	3	1	2	5
PL.63401	PL.58510	A	#1/0 ACSR	7.10Y	118.3	0.00	6.65	0.99	0	7	2	96	0.00	0.0	8.852	0.035	0	0	1	3
PL.64328	PL.63401	A	#1/0 ACSR	7.10Y	118.3	0.00	6.66	0.95	0	7	2	96	0.00	0.0	9.077	0.225	6	2	1	2
PL.64329	PL.64328	A	#1/0 ACSR	7.10Y	118.3	0.00	6.66	0.06	0	0	0	100	0.00	0.0	9.077	0.000	0	0	0	1
PL.60710	PL.64329	A	#1/0 ACSR	7.10Y	118.3	0.00	6.66	0.06	0	0	0	100	0.00	0.0	9.173	0.096	0	0	1	1
PL.41158	PL.41157	ABC	#1/0 ACSR	7.10Y	118.3	0.03	6.68	21.72	9	444	131	96	0.08	0.0	8.814	0.068	14	4	1	65
PL.41159	PL.41158	C	#1/0 ACSR	7.10Y	118.3	0.00	6.68	2.58	1	18	5	96	0.00	0.0	8.820	0.006	0	0	0	2
PD.6367	PL.41159	C	25QA	7.10Y	118.3	0.00	6.68	2.58	10	18	5	96	0.00	0.0	8.820	0.006	0	0	0	2
PL.41160	PD.6367	C	#1/0 ACSR	7.10Y	118.3	0.00	6.68	2.58	1	18	5	96	0.00	0.0	8.837	0.017	18	5	2	2
PL.41161	PL.41158	ABC	#1/0 ACSR	7.10Y	118.3	0.02	6.69	20.18	9	412	122	96	0.06	0.0	8.866	0.052	4	1	1	62
PL.41162	PL.41161	ABC	#1/0 ACSR	7.10Y	118.3	0.01	6.71	19.99	9	408	121	96	0.04	0.0	8.907	0.041	2	1	2	61
PL.41163	PL.41162	ABC	#1/0 ACSR	7.10Y	118.3	0.02	6.73	19.88	9	406	120	96	0.05	0.0	8.954	0.047	0	0	0	59
PL.41167	PL.41163	A	#4 ACSR	7.10Y	118.3	0.00	6.73	0.98	1	7	2	96	0.00	0.0	8.960	0.006	0	0	0	1
PD.6279	PL.41167	A	25QA	7.10Y	118.3	0.00	6.73	0.98	4	7	2	96	0.00	0.0	8.960	0.006	0	0	0	1
PL.59234	PD.6279	A	#4 ACSR	7.10Y	118.3	0.00	6.73	0.98	1	7	2	96	0.00	0.0	8.984	0.025	7	2	1	1
PL.41165	PL.41163	C	#4 ACSR	7.10Y	118.3	0.00	6.73	0.56	0	4	1	97	0.00	0.0	8.960	0.006	0	0	0	2
PD.6278	PL.41165	C	25QA	7.10Y	118.3	0.00	6.73	0.56	2	4	1	97	0.00	0.0	8.960	0.006	0	0	0	2
PL.41166	PD.6278	C	#4 ACSR	7.10Y	118.3	0.00	6.73	0.56	0	4	1	97	0.00	0.0	8.970	0.010	4	1	2	2
PL.41164	PL.41163	ABC	#1/0 ACSR	7.09Y	118.2	0.05	6.78	19.36	8	395	117	96	0.15	0.0	9.101	0.147	0	0	0	56
PL.41168	PL.41164	ABC	#1/0 ACSR	7.08Y	118.0	0.18	6.96	19.36	8	395	117	96	0.52	0.1	9.622	0.522	3	1	1	56
REG48	PL.41168	ABC	76.2 KVA	7.50Y	125.1	-7.04	-0.07	19.22	19	392	116	96	percent Boost= 5.62		Tap= 9.0					55
PL.41169	REG48	ABC	#1/0 ACSR	7.50Y	125.0	0.04	-0.04	18.14	8	392	116	96	0.10	0.0	9.742	0.120	9	3	2	55
PL.41170	PL.41169	ABC	#1/0 ACSR	7.50Y	124.9	0.09	0.05	17.71	8	382	113	96	0.23	0.1	10.014	0.272	0	0	0	53
PL.41173	PL.41170	A	#1/0 ACSR	7.50Y	124.9	0.00	0.05	0.74	0	5	2	93	0.00	0.0	10.020	0.006	0	0	0	1
PD.6344	PL.41173	A	25T	7.50Y	124.9	0.00	0.05	0.74	0	5	2	93	0.00	0.0	10.020	0.006	0	0	0	1
PL.41174	PD.6344	A	#1/0 ACSR	7.50Y	124.9	0.00	0.05	0.74	0	5	2	93	0.00	0.0	10.035	0.015	0	0	0	1
PL.41171	PL.41174	A	#1/0 ACSR	7.50Y	124.9	0.00	0.05	0.74	0	5	2	93	0.00	0.0	10.064	0.029	5	2	1	1
PL.41172	PL.41171	A	#1/0 ACSR	7.50Y	124.9	0.00	0.05	0.00	0	0	0	100	0.00	0.0	10.408	0.344	0	0	0	0
PL.41175	PL.41170	ABC	#1/0 ACSR	7.49Y	124.9	0.07	0.12	17.46	8	377	111	96	0.17	0.0	10.227	0.213	0	0	0	52
PL.41176	PL.41175	ABC	#1/0 ACSR	7.49Y	124.8	0.04	0.16	17.46	8	376	111	96	0.10	0.0	10.350	0.122	0	0	0	52
PL.41177	PL.41176	ABC	#1/0 ACSR	7.49Y	124.8	0.03	0.19	17.46	8	376	111	96	0.08	0.0	10.442	0.093	0	0	0	52

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.41178	PL.41177	ABC	#1/0 ACSR	7.48Y	124.7	0.14	0.32	17.46	8	376	111	96	0.35	0.1	10.868	0.426	0	0	0	52
PL.60305	PL.41178	ABC	#1/0 ACSR	7.48Y	124.6	0.05	0.37	17.13	7	369	108	96	0.13	0.0	11.030	0.162	0	0	0	51
PL.60307	PL.60305	ABC	#1/0 ACSR	7.47Y	124.5	0.13	0.51	16.65	7	358	105	96	0.32	0.1	11.464	0.434	0	0	0	49
PL.60308	PL.60307	ABC	#1/0 ACSR	7.47Y	124.4	0.06	0.56	16.65	7	358	105	96	0.14	0.0	11.662	0.198	12	4	2	49
PL.51718	PL.60308	ABC	#1/0 ACSR	7.46Y	124.4	0.04	0.60	16.07	7	345	101	96	0.09	0.0	11.797	0.135	0	0	0	47
PL.51719	PL.51718	ABC	#1/0 ACSR	7.46Y	124.4	0.04	0.65	16.07	7	345	101	96	0.10	0.0	11.939	0.141	0	0	0	47
PL.51721	PL.51719	ABC	#1/0 ACSR	7.46Y	124.3	0.01	0.66	16.07	7	345	101	96	0.03	0.0	11.984	0.045	0	0	0	47
PL.51725	PL.51721	ABC	#1/0 ACSR	7.46Y	124.3	0.09	0.75	15.64	7	336	98	96	0.20	0.1	12.290	0.306	0	0	0	44
PL.51726	PL.51725	C	#4 ACSR	7.46Y	124.3	0.00	0.75	1.86	1	13	4	96	0.00	0.0	12.296	0.006	0	0	0	2
PD.7932	PL.51726	C	25QA	7.46Y	124.3	0.00	0.75	1.86	7	13	4	96	0.00	0.0	12.296	0.006	0	0	0	2
PL.51723	PD.7932	C	#4 ACSR	7.45Y	124.2	0.00	0.75	1.86	1	13	4	96	0.00	0.0	12.408	0.113	13	4	2	2
PL.51724	PL.51723	C	#4 ACSR	7.45Y	124.2	0.00	0.75	0.00	0	0	0	100	0.00	0.0	12.450	0.042	0	0	0	0
PL.51727	PL.51725	ABC	#1/0 ACSR	7.45Y	124.2	0.06	0.80	15.02	7	322	94	96	0.13	0.0	12.501	0.211	2	1	1	42
PL.51728	PL.51727	ABC	#1/0 ACSR	7.45Y	124.2	0.01	0.82	14.91	6	320	94	96	0.03	0.0	12.550	0.049	11	3	1	41
PL.51729	PL.51728	ABC	#1/0 ACSR	7.45Y	124.1	0.08	0.90	14.41	6	309	90	96	0.17	0.1	12.856	0.305	4	1	1	40
PL.41090	PL.51729	ABC	#1/0 ACSR	7.45Y	124.1	0.02	0.91	14.23	6	305	89	96	0.03	0.0	12.919	0.063	1	0	1	39
PL.41091	PL.41090	ABC	#1/0 ACSR	7.44Y	124.0	0.04	0.95	14.18	6	304	89	96	0.08	0.0	13.075	0.157	0	0	0	38
PL.41093	PL.41091	C	#1/0 ACSR	7.44Y	124.0	0.00	0.95	1.87	1	13	4	96	0.00	0.0	13.081	0.006	0	0	0	2
PD.6310	PL.41093	C	25QA	7.44Y	124.0	0.00	0.95	1.87	7	13	4	96	0.00	0.0	13.081	0.006	0	0	0	2
PL.41094	PD.6310	C	#1/0 ACSR	7.44Y	124.0	0.00	0.95	1.87	1	13	4	96	0.00	0.0	13.107	0.026	13	4	2	2
PL.41092	PL.41091	ABC	#1/0 ACSR	7.44Y	124.0	0.05	1.00	13.55	6	290	85	96	0.09	0.0	13.262	0.187	10	3	1	36
PL.51730	PL.41092	C	#1/0 ACSR	7.44Y	124.0	0.00	1.00	22.52	10	161	47	96	0.00	0.0	13.267	0.006	0	0	0	17
PD.7933	PL.51730	C	20T	7.44Y	124.0	0.00	1.00	22.52	0	161	47	96	0.00	0.0	13.267	0.006	0	0	0	17
PL.52049	PD.7933	C	#1/0 ACSR	7.43Y	123.9	0.15	1.15	22.52	10	161	47	96	0.15	0.1	13.559	0.291	8	2	1	17
PL.52051	PL.52049	C	#1/0 ACSR	7.43Y	123.8	0.03	1.18	18.21	8	130	38	96	0.02	0.0	13.624	0.065	0	0	0	13
PL.52191	PL.52051	C	#1/0 ACSR	7.42Y	123.7	0.15	1.33	18.21	8	130	38	96	0.13	0.1	13.982	0.358	0	0	0	13
PL.52189	PL.52191	C	#1/0 ACSR	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	14.050	0.068	0	0	0	0
PL.52190	PL.52191	C	#1/0 ACSR	7.41Y	123.6	0.11	1.44	18.21	8	130	38	96	0.09	0.1	14.245	0.263	0	0	0	13
PL.52188	PL.52190	C	#4 ACSR	7.41Y	123.6	0.00	1.44	0.00	0	0	0	100	0.00	0.0	14.340	0.095	0	0	0	0
PL.52187	PL.52190	C	#4 ACSR	7.41Y	123.5	0.07	1.52	18.21	14	130	38	96	0.07	0.1	14.336	0.091	0	0	0	13
PL.51848	PL.52187	C	#4 ACSR	7.40Y	123.4	0.07	1.58	18.21	14	130	38	96	0.06	0.0	14.423	0.087	10	3	1	13

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.51789	PL.51848	C	#4 ACSR	7.40Y	123.4	0.04	1.63	16.74	13	119	35	96	0.04	0.0	14.482	0.059	8	2	1	12
PL.51786	PL.51789	C	#4 ACSR	7.40Y	123.3	0.03	1.65	15.56	12	111	32	96	0.02	0.0	14.519	0.037	0	0	0	11
PL.51787	PL.51786	C	6 A (CWC)	7.40Y	123.3	0.01	1.66	4.95	4	35	10	96	0.00	0.0	14.582	0.063	14	4	1	4
PL.51788	PL.51787	C	6 A (CWC)	7.40Y	123.3	0.01	1.68	3.04	2	22	6	96	0.00	0.0	14.688	0.106	11	3	1	3
PL.51790	PL.51788	C	6 A (CWC)	7.40Y	123.3	0.03	1.71	1.56	1	11	3	96	0.00	0.0	15.132	0.444	1	0	1	2
PL.51795	PL.51790	C	6 A (CWC)	7.40Y	123.3	0.00	1.71	1.44	1	10	3	96	0.00	0.0	15.251	0.119	10	3	1	1
PL.51794	PL.51786	C	6 A (CWC)	7.40Y	123.3	0.03	1.68	10.62	8	75	22	96	0.02	0.0	14.590	0.071	11	3	1	7
PL.51793	PL.51794	C	6 A (CWC)	7.40Y	123.3	0.04	1.73	7.88	6	56	16	96	0.02	0.0	14.712	0.122	0	0	0	5
PL.51714	PL.51793	C	#2 ACSR	7.40Y	123.3	0.00	1.73	0.99	1	7	2	96	0.00	0.0	14.767	0.055	7	2	1	1
PL.51711	PL.51793	C	6 A (CWC)	7.39Y	123.2	0.04	1.76	6.89	5	49	14	96	0.01	0.0	14.838	0.125	11	3	1	4
PL.51710	PL.51711	C	6 A (CWC)	7.39Y	123.2	0.02	1.78	5.30	4	38	11	96	0.01	0.0	14.922	0.085	0	0	0	3
PL.51713	PL.51710	C	6 A (CWC)	7.39Y	123.1	0.12	1.91	5.30	4	38	11	96	0.03	0.1	15.420	0.497	0	0	0	3
PL.51712	PL.51713	C	6 A (CWC)	7.38Y	123.1	0.02	1.92	5.30	4	38	11	96	0.00	0.0	15.517	0.097	18	5	1	3
PL.51791	PL.51712	C	#2 ACSR	7.38Y	123.1	0.00	1.92	1.61	1	11	3	96	0.00	0.0	15.537	0.020	11	3	1	1
PL.51784	PL.51712	C	6 A (CWC)	7.38Y	123.1	0.01	1.93	1.22	1	9	3	95	0.00	0.0	15.631	0.114	0	0	0	1
PL.51785	PL.51784	C	6 A (CWC)	7.38Y	123.1	0.00	1.93	1.22	1	9	3	95	0.00	0.0	15.634	0.003	0	0	0	1
PL.51849	PL.51785	C	6 A (CWC)	7.38Y	123.1	0.01	1.94	1.22	1	9	3	95	0.00	0.0	15.749	0.115	0	0	0	1
PL.51851	PL.51849	C	6 A (CWC)	7.38Y	123.1	0.00	1.94	1.22	1	9	3	95	0.00	0.0	15.837	0.089	9	3	1	1
PL.51850	PL.51851	C	6 A (CWC)	7.38Y	123.1	0.00	1.94	0.00	0	0	0	100	0.00	0.0	15.966	0.129	0	0	0	0
PL.51792	PL.51794	C	#2 ACSR	7.40Y	123.3	0.00	1.69	1.22	1	9	3	95	0.00	0.0	14.632	0.042	9	3	1	1
PL.52050	PL.52049	C	#1/0 ACSR	7.43Y	123.8	0.01	1.16	3.15	1	22	7	95	0.00	0.0	13.639	0.080	0	0	0	3
PL.51731	PL.52050	C	#1/0 ACSR	7.43Y	123.8	0.00	1.16	3.15	1	22	7	95	0.00	0.0	13.698	0.059	6	2	1	3
PL.41095	PL.51731	C	#1/0 ACSR	7.43Y	123.8	0.00	1.16	2.25	1	16	5	95	0.00	0.0	13.785	0.088	0	0	0	2
PL.63341	PL.41095	C	6 A (CWC)	7.43Y	123.8	0.00	1.16	0.84	1	6	2	95	0.00	0.0	13.804	0.019	0	0	0	1
PL.63342	PL.63341	C	6 A (CWC)	7.43Y	123.8	0.00	1.16	0.84	1	6	2	95	0.00	0.0	13.804	0.000	6	2	1	1
PL.41096	PL.41095	C	#1/0 ACSR	7.43Y	123.8	0.00	1.17	1.42	1	10	3	96	0.00	0.0	13.852	0.066	0	0	0	1
PL.41097	PL.41096	C	#1/0 ACSR	7.43Y	123.8	0.00	1.17	1.42	1	10	3	96	0.00	0.0	13.908	0.056	10	3	1	1
PL.41098	PL.41092	A	6 A (CWC)	7.44Y	124.0	0.00	1.00	16.77	12	120	35	96	0.00	0.0	13.267	0.006	0	0	0	18
PD.6349	PL.41098	A	60QA	7.44Y	124.0	0.00	1.00	16.77	28	120	35	96	0.00	0.0	13.267	0.006	0	0	0	18
PL.41099	PD.6349	A	6 A (CWC)	7.44Y	124.0	0.05	1.05	16.77	12	120	35	96	0.04	0.0	13.327	0.060	5	2	1	18
PL.41100	PL.41099	A	6 A (CWC)	7.43Y	123.9	0.06	1.10	16.01	11	114	33	96	0.05	0.0	13.409	0.082	10	3	1	17

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.41101	PL.41100	A	6 A (CWC)	7.43Y	123.8	0.10	1.21	14.64	10	104	30	96	0.08	0.1	13.565	0.156	0	0	0	16
PL.40200	PL.41101	A	6 A (CWC)	7.43Y	123.8	0.00	1.21	1.23	1	9	3	95	0.00	0.0	13.642	0.077	9	3	1	1
PL.41102	PL.41101	A	6 A (CWC)	7.42Y	123.7	0.08	1.29	13.41	10	96	28	96	0.06	0.1	13.702	0.137	0	0	0	15
PL.40575	PL.41102	A	6 A (CWC)	7.42Y	123.7	0.00	1.29	1.59	1	11	3	96	0.00	0.0	13.740	0.038	11	3	2	2
PL.41103	PL.41102	A	6 A (CWC)	7.41Y	123.5	0.16	1.45	11.82	8	84	25	96	0.10	0.1	13.997	0.295	1	0	1	13
PL.41104	PL.41103	A	6 A (CWC)	7.41Y	123.5	0.07	1.52	11.74	8	84	24	96	0.04	0.1	14.130	0.133	0	0	0	12
PL.41105	PL.41104	A	6 A (CWC)	7.40Y	123.3	0.14	1.66	11.74	8	84	24	96	0.09	0.1	14.390	0.259	0	0	0	12
PL.41106	PL.41105	A	6 A (CWC)	7.40Y	123.3	0.03	1.70	11.36	8	81	23	96	0.02	0.0	14.454	0.064	4	1	1	11
PL.41107	PL.41106	A	6 A (CWC)	7.40Y	123.3	0.05	1.74	10.80	8	77	22	96	0.03	0.0	14.552	0.098	6	2	1	10
PL.59247	PL.41107	A	6 A (CWC)	7.39Y	123.2	0.03	1.78	9.94	7	71	20	96	0.01	0.0	14.641	0.089	29	8	3	9
PL.59246	PL.59247	A	6 A (CWC)	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	14.719	0.078	0	0	0	0
PL.59248	PL.59247	A	6 A (CWC)	7.39Y	123.2	0.02	1.80	5.90	4	42	12	96	0.01	0.0	14.714	0.073	0	0	0	6
PL.41108	PL.59248	A	6 A (CWC)	7.39Y	123.2	0.01	1.81	5.90	4	42	12	96	0.00	0.0	14.752	0.038	0	0	0	6
PL.41109	PL.41108	A	6 A (CWC)	7.39Y	123.2	0.03	1.84	4.77	3	34	10	96	0.01	0.0	14.910	0.158	0	0	0	5
PL.41110	PL.41109	A	6 A (CWC)	7.39Y	123.1	0.01	1.85	4.77	3	34	10	96	0.00	0.0	14.951	0.041	0	0	0	5
PL.40224	PL.41110	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	15.399	0.448	0	0	0	0
PL.41117	PL.40224	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	15.612	0.214	0	0	0	0
PL.40735	PL.41117	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	15.717	0.104	0	0	0	0
PL.41118	PL.41117	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	15.808	0.196	0	0	0	0
PL.41119	PL.40224	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	15.580	0.182	0	0	0	0
PL.51768	PL.41119	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	16.513	0.933	0	0	0	0
PL.51769	PL.51768	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	16.574	0.061	0	0	0	0
PL.57343	PL.51769	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	16.675	0.101	0	0	0	0
PL.57344	PL.57343	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	16.720	0.045	0	0	0	0
PD.8279-B	PL.57344	A	Open	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	16.720	0.045	0	0	0	0
PL.40333	PL.41119	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	15.653	0.073	0	0	0	0
PL.41113	PL.41110	A	6 A (CWC)	7.39Y	123.1	0.02	1.87	3.19	2	23	7	96	0.00	0.0	15.133	0.182	7	2	1	4
PL.41114	PL.41113	A	6 A (CWC)	7.39Y	123.1	0.01	1.88	2.27	2	16	5	95	0.00	0.0	15.191	0.058	4	1	2	3
PL.41115	PL.41114	A	6 A (CWC)	7.39Y	123.1	0.02	1.90	1.67	1	12	3	97	0.00	0.0	15.653	0.462	12	3	1	1
PL.41116	PL.41115	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	15.810	0.157	0	0	0	0
PL.41111	PL.41110	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	1.58	1	11	3	96	0.00	0.0	15.015	0.065	11	3	1	1

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.41112	PL.41111	A	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	15.105	0.090	0	0	0	0
PL.40287	PL.41108	A	6 A (CWC)	7.39Y	123.2	0.00	1.81	1.13	1	8	2	97	0.00	0.0	14.900	0.148	8	2	1	1
PL.40310	PL.41105	A	6 A (CWC)	7.40Y	123.3	0.00	1.67	0.38	0	3	1	95	0.00	0.0	14.487	0.097	3	1	1	1
PL.40332	PL.41102	A	6 A (CWC)	7.42Y	123.7	0.00	1.29	0.00	0	0	0	100	0.00	0.0	14.031	0.329	0	0	0	0
PL.51722	PL.51721	A	6 A (CWC)	7.46Y	124.3	0.00	0.66	1.30	1	9	3	95	0.00	0.0	11.989	0.006	0	0	0	3
PD.7931	PL.51722	A	40QA	7.46Y	124.3	0.00	0.66	1.30	3	9	3	95	0.00	0.0	11.989	0.006	0	0	0	3
PL.51720	PD.7931	A	6 A (CWC)	7.46Y	124.3	0.00	0.66	1.30	1	9	3	95	0.00	0.0	12.061	0.072	6	2	1	3
PL.59245	PL.51720	A	6 A (CWC)	7.46Y	124.3	0.00	0.66	0.51	0	4	1	97	0.00	0.0	12.312	0.251	4	1	2	2
PL.60304	PL.60305	C	#2 ACSR	7.48Y	124.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	11.126	0.096	0	0	0	0
PL.60306	PL.60305	C	6 A (CWC)	7.48Y	124.6	0.00	0.37	1.43	1	10	3	96	0.00	0.0	11.035	0.006	0	0	0	2
PD.6350	PL.60306	C	60QA	7.48Y	124.6	0.00	0.37	1.43	2	10	3	96	0.00	0.0	11.035	0.006	0	0	0	2
PL.41181	PD.6350	C	6 A (CWC)	7.48Y	124.6	0.01	0.39	1.43	1	10	3	96	0.00	0.0	11.213	0.178	0	0	0	2
PL.40151	PL.41181	C	6 A (CWC)	7.48Y	124.6	0.00	0.39	1.29	1	9	3	95	0.00	0.0	11.290	0.076	9	3	1	1
PL.41182	PL.41181	C	6 A (CWC)	7.48Y	124.6	0.00	0.39	0.14	0	1	0	100	0.00	0.0	11.398	0.185	1	0	1	1
PL.41179	PL.41178	A	#4 ACSR	7.48Y	124.7	0.00	0.32	1.00	1	7	2	96	0.00	0.0	10.873	0.006	0	0	0	1
PD.6277	PL.41179	A	25QA	7.48Y	124.7	0.00	0.32	1.00	4	7	2	96	0.00	0.0	10.873	0.006	0	0	0	1
PL.41180	PD.6277	A	#4 ACSR	7.48Y	124.7	0.00	0.32	1.00	1	7	2	96	0.00	0.0	10.919	0.046	7	2	1	1
PL.40554	PL.40551	B	6 A (CWC)	7.16Y	119.3	0.00	5.69	2.02	1	14	4	96	0.00	0.0	6.620	0.006	0	0	0	3
PD.6311	PL.40554	B	40QA	7.16Y	119.3	0.00	5.69	2.02	5	14	4	96	0.00	0.0	6.620	0.006	0	0	0	3
PL.40555	PD.6311	B	6 A (CWC)	7.16Y	119.3	0.00	5.70	2.02	1	14	4	96	0.00	0.0	6.645	0.025	11	3	1	3
PL.40552	PL.40555	B	6 A (CWC)	7.16Y	119.3	0.00	5.70	0.47	0	3	1	95	0.00	0.0	6.731	0.087	2	1	1	2
PL.40553	PL.40552	B	6 A (CWC)	7.16Y	119.3	0.00	5.70	0.19	0	1	0	100	0.00	0.0	6.793	0.061	1	0	1	1
CP.77	PL.52678	ABC	Cap (300)	7.18Y	119.6	0.00	5.40	0.00	0	0	0	100	0.00	0.0	6.125	0.061	0	0	0	0
PL.40870	PL.40866	A	#4 ACSR	7.21Y	120.2	0.00	4.82	1.66	1	12	3	97	0.00	0.0	5.159	0.006	0	0	0	1
PD.6316	PL.40870	A	40QA	7.21Y	120.2	0.00	4.82	1.66	4	12	3	97	0.00	0.0	5.159	0.006	0	0	0	1
PL.41084	PD.6316	A	#4 ACSR	7.21Y	120.2	0.02	4.84	1.66	1	12	3	97	0.00	0.0	5.388	0.229	0	0	0	1
PL.41085	PL.41084	A	#4 ACSR	7.21Y	120.2	0.00	4.84	1.66	1	12	3	97	0.00	0.0	5.452	0.064	12	3	1	1
PL.40861	PL.40859	A	#4 ACSR	7.24Y	120.6	0.00	4.36	1.85	1	13	4	96	0.00	0.0	4.430	0.006	0	0	0	3
PD.6295	PL.40861	A	40QA	7.24Y	120.6	0.00	4.36	1.85	5	13	4	96	0.00	0.0	4.430	0.006	0	0	0	3
PL.60742	PD.6295	A	#4 ACSR	7.24Y	120.6	0.00	4.36	1.85	1	13	4	96	0.00	0.0	4.449	0.019	13	4	3	3
PL.40860	PL.40858	C	#4 ACSR	7.24Y	120.7	0.00	4.25	2.81	2	20	6	96	0.00	0.0	4.265	0.006	0	0	0	2

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.6358	PL.40860	C	40QA	7.24Y	120.7	0.00	4.25	2.81	7	20	6	96	0.00	0.0	4.265	0.006	0	0	0	2
PL.53357	PD.6358	C	#4 ACSR	7.24Y	120.7	0.00	4.26	2.81	2	20	6	96	0.00	0.0	4.308	0.043	20	6	2	2
PL.53358	PL.53357	C	#4 ACSR	7.24Y	120.7	0.00	4.26	0.00	0	0	0	100	0.00	0.0	4.336	0.028	0	0	0	0
PL.40852	PL.40848	A	#4 ACSR	7.29Y	121.5	0.00	3.54	7.56	6	53	15	96	0.00	0.0	3.190	0.006	0	0	0	5
PD.6318	PL.40852	A	40QA	7.29Y	121.5	0.00	3.54	7.56	19	53	15	96	0.00	0.0	3.190	0.006	0	0	0	5
PL.40853	PD.6318	A	#4 ACSR	7.29Y	121.4	0.01	3.55	7.56	6	53	15	96	0.00	0.0	3.225	0.035	15	4	1	5
PL.40849	PL.40853	A	#4 ACSR	7.29Y	121.4	0.01	3.56	5.36	4	38	11	96	0.00	0.0	3.275	0.050	0	0	0	4
PL.40850	PL.40849	A	#4 ACSR	7.29Y	121.4	0.01	3.57	5.36	4	38	11	96	0.00	0.0	3.317	0.042	6	2	1	4
PL.40851	PL.40850	A	#4 ACSR	7.29Y	121.4	0.01	3.58	4.56	4	32	9	96	0.00	0.0	3.375	0.058	17	5	2	3
PL.64561	PL.40851	A	#1/0 ACSR	7.28Y	121.4	0.00	3.58	2.19	1	15	4	97	0.00	0.0	3.421	0.046	0	0	0	1
PL.64562	PL.64561	A	#1/0 ACSR	7.28Y	121.4	0.00	3.59	2.19	1	15	4	97	0.00	0.0	3.472	0.051	0	0	0	1
PL.64563	PL.64562	A	#1/0 ACSR	7.28Y	121.4	0.00	3.59	2.19	1	15	4	97	0.00	0.0	3.535	0.063	15	4	1	1
PL.39798	PL.40132	A	6 A (CWC)	7.29Y	121.5	0.00	3.50	2.15	2	15	4	97	0.00	0.0	3.128	0.006	0	0	0	1
PD.6331	PL.39798	A	40QA	7.29Y	121.5	0.00	3.50	2.15	5	15	4	97	0.00	0.0	3.128	0.006	0	0	0	1
PL.40847	PD.6331	A	6 A (CWC)	7.29Y	121.5	0.02	3.51	2.15	2	15	4	97	0.00	0.0	3.284	0.156	0	0	0	1
PL.63379	PL.40847	A	4/0 AL URD	7.29Y	121.5	0.00	3.51	2.15	1	15	4	97	0.00	0.0	3.313	0.029	15	4	1	1
PL.40133	PL.40132	C	#4 ACSR	7.29Y	121.5	0.00	3.50	0.05	0	0	0	100	0.00	0.0	3.128	0.006	0	0	0	1
PD.6299	PL.40133	C	40QA	7.29Y	121.5	0.00	3.50	0.05	0	0	0	100	0.00	0.0	3.128	0.006	0	0	0	1
PL.40134	PD.6299	C	#4 ACSR	7.29Y	121.5	0.00	3.50	0.05	0	0	0	100	0.00	0.0	3.139	0.010	0	0	1	1
PL.40147	PL.40128	C	#2 ACSR	7.31Y	121.8	0.00	3.19	2.11	1	15	4	97	0.00	0.0	2.722	0.026	15	4	1	1
PL.62187	PL.62184	ABC	336 MCM AC	7.35Y	122.5	0.01	2.52	93.86	18	1985	586	96	0.09	0.0	1.821	0.012	0	0	0	243
PL.62188	PL.62187	C	#1/0 ACSR	7.35Y	122.5	0.00	2.52	1.52	1	11	3	96	0.00	0.0	1.825	0.003	0	0	0	1
PD.9284	PL.62188	C	30T	7.35Y	122.5	0.00	2.52	1.52	0	11	3	96	0.00	0.0	1.825	0.003	0	0	0	1
PL.62189	PD.9284	C	#1/0 ACSR	7.35Y	122.5	0.00	2.52	1.52	1	11	3	96	0.00	0.0	1.861	0.036	11	3	1	1
PL.62190	PL.62187	ABC	336 MCM AC	7.35Y	122.5	0.03	2.55	93.35	18	1974	582	96	0.30	0.0	1.862	0.040	0	0	0	242
PL.62191	PL.62190	ABC	336 MCM AC	7.34Y	122.4	0.08	2.63	87.12	17	1842	543	96	0.79	0.0	1.985	0.123	0	0	0	222
PL.62193	PL.62191	ABC	336 MCM AC	7.34Y	122.4	0.00	2.63	87.12	17	1841	541	96	0.02	0.0	1.988	0.003	0	0	0	222
PD.9285-A	PL.62193	ABC	Closed	7.34Y	122.4	0.00	2.63	87.12	0	1841	541	96	0.00	0.0	1.988	0.003	0	0	0	222
PD.9285-B	PD.9285-A	ABC	Closed	7.34Y	122.4	0.00	2.63	87.12	0	1841	541	96	0.00	0.0	1.988	0.003	0	0	0	222
PL.62194	PD.9285-B	ABC	336 MCM AC	7.34Y	122.3	0.05	2.68	87.12	17	1841	541	96	0.45	0.0	2.058	0.070	0	0	0	222
PL.62195	PL.62194	ABC	336 MCM AC	7.34Y	122.3	0.03	2.70	52.39	10	1107	325	96	0.15	0.0	2.121	0.063	0	0	0	131

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62199	PL.62195	ABC	336 MCM AC	7.33Y	122.2	0.05	2.76	52.39	10	1107	325	96	0.32	0.0	2.259	0.138	10	3	1	131
PL.62200	PL.62199	ABC	336 MCM AC	7.33Y	122.2	0.01	2.77	51.92	10	1096	321	96	0.06	0.0	2.286	0.027	0	0	0	130
PL.62201	PL.62200	B	#1/0 ACSR	7.33Y	122.2	0.00	2.77	2.77	1	20	6	96	0.00	0.0	2.289	0.002	0	0	0	2
PD.9287	PL.62201	B	30T	7.33Y	122.2	0.00	2.77	2.77	0	20	6	96	0.00	0.0	2.289	0.002	0	0	0	2
PL.62202	PD.9287	B	#1/0 ACSR	7.33Y	122.2	0.00	2.77	2.77	1	20	6	96	0.00	0.0	2.308	0.019	20	6	2	2
PL.62203	PL.62200	ABC	336 MCM AC	7.33Y	122.2	0.02	2.79	50.99	10	1077	315	96	0.11	0.0	2.338	0.052	9	3	1	128
PL.62209	PL.62203	ABC	336 MCM AC	7.33Y	122.2	0.02	2.81	50.57	10	1068	312	96	0.12	0.0	2.394	0.056	0	0	0	127
PL.62214	PL.62209	ABC	336 MCM AC	7.33Y	122.2	0.03	2.84	49.77	10	1051	307	96	0.18	0.0	2.481	0.087	18	5	1	125
PL.61803	PL.62214	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.00	0	0	0	100	0.00	0.0	2.511	0.030	0	0	0	0
PL.62213	PL.61803	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.00	0	0	0	100	0.00	0.0	2.609	0.098	0	0	0	0
PL.61802	PL.62214	ABC	#1/0 ACSR	7.33Y	122.1	0.01	2.85	24.48	11	517	151	96	0.05	0.0	2.510	0.029	0	0	0	62
PL.61806	PL.61802	ABC	#1/0 ACSR	7.33Y	122.1	0.00	2.85	24.48	11	517	151	96	0.00	0.0	2.513	0.003	0	0	0	62
PD.9290	PL.61806	ABC	50L	7.33Y	122.1	0.00	2.85	24.48	49	517	151	96	0.00	0.0	2.513	0.003	0	0	0	62
PL.61807	PD.9290	ABC	#1/0 ACSR	7.33Y	122.1	0.01	2.87	24.48	11	517	151	96	0.05	0.0	2.542	0.029	0	0	0	62
PL.62212	PL.61807	ABC	#1/0 ACSR	7.33Y	122.1	0.02	2.88	23.73	10	501	147	96	0.06	0.0	2.579	0.037	0	0	0	61
PL.61804	PL.62212	ABC	#1/0 ACSR	7.32Y	122.0	0.08	2.96	23.73	10	501	147	96	0.29	0.1	2.770	0.191	0	0	0	61
PL.61805	PL.61804	ABC	#1/0 ACSR	7.32Y	122.0	0.04	3.01	23.73	10	500	146	96	0.15	0.0	2.871	0.100	0	0	0	61
PL.40482	PL.61805	ABC	#1/0 ACSR	7.32Y	122.0	0.03	3.04	23.73	10	500	146	96	0.11	0.0	2.944	0.073	0	0	0	61
PL.41210	PL.40482	ABC	#1/0 ACSR	7.31Y	121.9	0.07	3.11	22.33	10	470	137	96	0.22	0.0	3.106	0.162	0	0	0	57
PL.41211	PL.41210	ABC	#1/0 ACSR	7.31Y	121.8	0.05	3.15	22.33	10	470	137	96	0.16	0.0	3.227	0.121	0	0	0	57
PL.41213	PL.41211	C	#4 ACSR	7.31Y	121.8	0.00	3.16	3.97	3	28	8	96	0.00	0.0	3.233	0.006	0	0	0	2
PD.6341	PL.41213	C	40QA	7.31Y	121.8	0.00	3.16	3.97	10	28	8	96	0.00	0.0	3.233	0.006	0	0	0	2
PL.41214	PD.6341	C	#4 ACSR	7.31Y	121.8	0.00	3.16	3.97	3	28	8	96	0.00	0.0	3.269	0.036	28	8	2	2
PL.41212	PL.41214	C	#4 ACSR	7.31Y	121.8	0.00	3.16	0.00	0	0	0	100	0.00	0.0	3.336	0.067	0	0	0	0
PL.41215	PL.41211	ABC	#1/0 ACSR	7.31Y	121.8	0.03	3.18	21.00	9	442	129	96	0.09	0.0	3.303	0.076	0	0	0	55
PL.41220	PL.41215	ABC	#1/0 ACSR	7.31Y	121.8	0.03	3.21	19.00	8	400	117	96	0.07	0.0	3.380	0.077	0	0	0	51
PL.41221	PL.41220	C	#2 ACSR	7.31Y	121.8	0.00	3.21	1.10	1	8	2	97	0.00	0.0	3.385	0.006	0	0	0	1
PD.6376	PL.41221	C	40QA	7.31Y	121.8	0.00	3.21	1.10	3	8	2	97	0.00	0.0	3.385	0.006	0	0	0	1
PL.41222	PD.6376	C	#2 ACSR	7.31Y	121.8	0.00	3.21	1.10	1	8	2	97	0.00	0.0	3.418	0.033	8	2	1	1
PL.39655	PL.41220	ABC	#1/0 ACSR	7.31Y	121.8	0.04	3.25	18.64	8	392	114	96	0.11	0.0	3.497	0.117	0	0	0	50
PL.39656	PL.39655	C	#2 ACSR	7.31Y	121.8	0.00	3.25	0.00	0	0	0	100	0.00	0.0	3.502	0.006	0	0	0	0

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.6375	PL.39656	C	40QA	7.31Y	121.8	0.00	3.25	0.00	0	0	0	100	0.00	0.0	3.502	0.006	0	0	0	0
PL.39657	PD.6375	C	#2 ACSR	7.31Y	121.8	0.00	3.25	0.00	0	0	0	100	0.00	0.0	3.524	0.022	0	0	0	0
PL.39658	PL.39655	ABC	#1/0 ACSR	7.30Y	121.7	0.02	3.27	18.64	8	392	114	96	0.05	0.0	3.545	0.049	0	0	0	50
PL.40262	PL.39658	ABC	#1/0 ACSR	7.30Y	121.7	0.04	3.30	18.64	8	392	114	96	0.10	0.0	3.655	0.110	0	0	0	50
PL.40263	PL.40262	C	#2 ACSR	7.30Y	121.7	0.00	3.30	1.52	1	11	3	96	0.00	0.0	3.661	0.006	0	0	0	1
PD.6374	PL.40263	C	40QA	7.30Y	121.7	0.00	3.30	1.52	4	11	3	96	0.00	0.0	3.661	0.006	0	0	0	1
PL.40264	PD.6374	C	#2 ACSR	7.30Y	121.7	0.00	3.30	1.52	1	11	3	96	0.00	0.0	3.705	0.044	11	3	1	1
PL.40265	PL.40262	C	#2 ACSR	7.30Y	121.7	0.00	3.30	0.01	0	0	0	100	0.00	0.0	3.661	0.006	0	0	0	1
PD.6248	PL.40265	C	40QA	7.30Y	121.7	0.00	3.30	0.01	0	0	0	100	0.00	0.0	3.661	0.006	0	0	0	1
PL.40266	PD.6248	C	#2 ACSR	7.30Y	121.7	0.00	3.30	0.01	0	0	0	100	0.00	0.0	3.708	0.047	0	0	1	1
PL.40267	PL.40262	ABC	#1/0 ACSR	7.30Y	121.7	0.02	3.33	18.13	8	381	111	96	0.06	0.0	3.724	0.069	0	0	0	48
PL.40389	PL.40267	B	#1/0 ACSR	7.30Y	121.7	0.00	3.33	1.97	1	14	4	96	0.00	0.0	3.792	0.068	14	4	1	1
PL.40268	PL.40267	ABC	#1/0 ACSR	7.30Y	121.7	0.02	3.34	17.47	8	367	107	96	0.04	0.0	3.774	0.050	0	0	0	47
PL.60721	PL.40268	A	#2 ACSR	7.30Y	121.7	0.00	3.34	3.82	2	27	8	96	0.00	0.0	3.777	0.003	0	0	0	2
PD.9058	PL.60721	A	40QA	7.30Y	121.7	0.00	3.34	3.82	10	27	8	96	0.00	0.0	3.777	0.003	0	0	0	2
PL.60722	PD.9058	A	#2 ACSR	7.30Y	121.7	0.00	3.35	3.82	2	27	8	96	0.00	0.0	3.830	0.053	27	8	2	2
PL.60723	PL.40268	C	#2 ACSR	7.30Y	121.7	0.00	3.34	2.39	1	17	5	96	0.00	0.0	3.776	0.003	0	0	0	2
PD.9059	PL.60723	C	40QA	7.30Y	121.7	0.00	3.34	2.39	6	17	5	96	0.00	0.0	3.776	0.003	0	0	0	2
PL.60724	PD.9059	C	#2 ACSR	7.30Y	121.7	0.00	3.35	2.39	1	17	5	96	0.00	0.0	3.832	0.056	6	2	1	2
PL.40466	PL.60724	C	#2 ACSR	7.30Y	121.7	0.00	3.35	1.57	1	11	3	96	0.00	0.0	3.911	0.078	0	0	0	1
PL.40467	PL.40466	C	#2 ACSR	7.30Y	121.6	0.00	3.35	1.57	1	11	3	96	0.00	0.0	3.953	0.042	11	3	1	1
PL.40468	PL.40268	ABC	#1/0 ACSR	7.30Y	121.6	0.04	3.38	15.40	7	324	94	96	0.09	0.0	3.920	0.146	0	0	0	43
PL.40469	PL.40468	ABC	#1/0 ACSR	7.30Y	121.6	0.01	3.39	15.40	7	324	94	96	0.02	0.0	3.956	0.036	0	0	0	43
PL.40470	PL.40469	ABC	#1/0 ACSR	7.29Y	121.6	0.04	3.43	15.40	7	324	94	96	0.09	0.0	4.099	0.143	0	0	0	43
PL.40471	PL.40470	C	#2 ACSR	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	4.105	0.006	0	0	0	0
PD.6327	PL.40471	C	40QA	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	4.105	0.006	0	0	0	0
PL.40472	PD.6327	C	#2 ACSR	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	4.141	0.036	0	0	0	0
PL.40812	PL.40470	ABC	#1/0 ACSR	7.29Y	121.5	0.02	3.45	13.49	6	283	83	96	0.04	0.0	4.175	0.076	0	0	1	39
PL.41224	PL.40812	ABC	#1/0 ACSR	7.29Y	121.5	0.01	3.47	13.49	6	283	83	96	0.03	0.0	4.232	0.057	0	0	0	38
PL.40343	PL.41224	C	#4 ACSR	7.29Y	121.5	0.00	3.47	0.00	0	0	0	100	0.00	0.0	4.252	0.020	0	0	0	0
PL.41225	PL.41224	ABC	#1/0 ACSR	7.29Y	121.5	0.03	3.49	13.49	6	283	82	96	0.05	0.0	4.352	0.120	21	6	2	38

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.41227	PL.41225	ABC	#1/0 ACSR	7.29Y	121.5	0.01	3.50	12.51	5	263	76	96	0.02	0.0	4.393	0.041	0	0	0	36
PL.41229	PL.41227	C	#2 ACSR	7.29Y	121.5	0.00	3.50	1.67	1	12	3	97	0.00	0.0	4.399	0.006	0	0	0	2
PD.6340	PL.41229	C	40QA	7.29Y	121.5	0.00	3.50	1.67	4	12	3	97	0.00	0.0	4.399	0.006	0	0	0	2
PL.40973	PD.6340	C	#2 ACSR	7.29Y	121.5	0.00	3.51	1.67	1	12	3	97	0.00	0.0	4.452	0.054	12	3	2	2
PL.41228	PL.41227	ABC	#1/0 ACSR	7.29Y	121.5	0.01	3.52	11.95	5	251	73	96	0.03	0.0	4.463	0.070	8	2	1	34
PL.41226	PL.41228	ABC	#1/0 ACSR	7.29Y	121.5	0.01	3.53	11.57	5	243	71	96	0.02	0.0	4.508	0.046	6	2	1	33
PL.40165	PL.41226	B	6 A (CWC)	7.29Y	121.5	0.00	3.53	14.36	10	101	29	96	0.00	0.0	4.514	0.006	0	0	0	12
PD.6246	PL.40165	B	25T	7.29Y	121.5	0.00	3.53	14.36	0	101	29	96	0.00	0.0	4.514	0.006	0	0	0	12
PL.40166	PD.6246	B	6 A (CWC)	7.28Y	121.3	0.17	3.71	14.36	10	101	29	96	0.13	0.1	4.778	0.264	0	0	0	12
PL.40167	PL.40166	B	6 A (CWC)	7.27Y	121.2	0.06	3.76	14.36	10	100	29	96	0.04	0.0	4.866	0.088	9	3	2	12
PL.40168	PL.40167	B	6 A (CWC)	7.27Y	121.1	0.14	3.90	11.69	8	82	24	96	0.09	0.1	5.126	0.259	0	0	0	9
PL.40169	PL.40168	B	6 A (CWC)	7.26Y	121.0	0.11	4.01	11.69	8	82	24	96	0.07	0.1	5.327	0.202	0	0	0	9
PL.40347	PL.40169	B	#4 ACSR	7.26Y	121.0	0.00	4.01	1.47	1	10	3	96	0.00	0.0	5.461	0.134	10	3	1	1
PL.40170	PL.40169	B	6 A (CWC)	7.26Y	120.9	0.07	4.08	10.22	7	71	21	96	0.04	0.1	5.471	0.144	0	0	0	8
PL.40807	PL.40170	B	6 A (CWC)	7.25Y	120.9	0.03	4.10	6.97	5	49	14	96	0.01	0.0	5.550	0.078	0	0	0	5
PL.40173	PL.40807	B	6 A (CWC)	7.25Y	120.9	0.04	4.14	6.97	5	49	14	96	0.01	0.0	5.693	0.144	11	3	1	5
PL.41120	PL.40173	B	6 A (CWC)	7.25Y	120.8	0.01	4.15	5.43	4	38	11	96	0.00	0.0	5.739	0.046	0	0	0	4
PL.63387	PL.41120	B	#2 ACSR	7.25Y	120.8	0.01	4.16	5.43	3	38	11	96	0.00	0.0	5.786	0.047	0	0	0	4
PL.63389	PL.63387	B	#1/0 ACSR	7.25Y	120.8	0.00	4.17	2.09	1	15	4	97	0.00	0.0	5.854	0.068	0	0	0	1
PL.63390	PL.63389	B	#1/0 ACSR	7.25Y	120.8	0.00	4.17	2.09	1	15	4	97	0.00	0.0	5.894	0.040	0	0	0	1
PL.63391	PL.63390	B	#1/0 ACSR	7.25Y	120.8	0.00	4.17	2.09	1	15	4	97	0.00	0.0	5.964	0.070	15	4	1	1
PL.63388	PL.63387	B	#2 ACSR	7.25Y	120.8	0.01	4.17	3.34	2	23	7	96	0.00	0.0	5.906	0.120	0	0	1	3
PL.60725	PL.63388	B	#2 ACSR	7.25Y	120.8	0.00	4.18	3.33	2	23	7	96	0.00	0.0	5.940	0.034	23	7	2	2
PL.41121	PL.41120	B	6 A (CWC)	7.25Y	120.8	0.00	4.15	0.00	0	0	0	100	0.00	0.0	5.761	0.022	0	0	0	0
PL.40171	PL.40170	B	6 A (CWC)	7.26Y	120.9	0.00	4.08	3.25	2	23	7	96	0.00	0.0	5.477	0.006	0	0	0	3
PD.6252	PL.40171	B	50QA	7.26Y	120.9	0.00	4.08	3.25	7	23	7	96	0.00	0.0	5.477	0.006	0	0	0	3
PL.40172	PD.6252	B	6 A (CWC)	7.26Y	120.9	0.00	4.08	3.25	2	23	7	96	0.00	0.0	5.492	0.015	0	0	1	3
PL.41122	PL.40172	B	6 A (CWC)	7.25Y	120.9	0.04	4.12	3.25	2	23	7	96	0.01	0.0	5.755	0.263	0	0	0	2
PL.41123	PL.41122	B	6 A (CWC)	7.25Y	120.9	0.02	4.14	3.25	2	23	7	96	0.00	0.0	5.902	0.147	0	0	0	2
PL.41126	PL.41123	B	6 A (CWC)	7.25Y	120.9	0.01	4.15	2.03	1	14	4	96	0.00	0.0	5.997	0.096	0	0	0	1
PL.41127	PL.41126	B	6 A (CWC)	7.25Y	120.9	0.00	4.15	0.00	0	0	0	100	0.00	0.0	6.106	0.109	0	0	0	0

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40191	PL.41126	B	#4 ACSR	7.25Y	120.8	0.00	4.15	2.03	2	14	4	96	0.00	0.0	6.066	0.068	14	4	1	1
PL.41124	PL.41123	B	#2 ACSR	7.25Y	120.9	0.00	4.14	1.22	1	8	2	97	0.00	0.0	5.932	0.030	0	0	0	1
PL.41125	PL.41124	B	#2 ACSR	7.25Y	120.9	0.00	4.14	1.22	1	8	2	97	0.00	0.0	6.082	0.150	8	2	1	1
PL.40232	PL.40167	B	#2 ACSR	7.27Y	121.2	0.01	3.77	1.36	1	9	3	95	0.00	0.0	5.229	0.362	9	3	1	1
PL.40346	PL.40167	B	6 A (CWC)	7.27Y	121.2	0.00	3.76	0.00	0	0	0	100	0.00	0.0	4.919	0.052	0	0	0	0
PL.40974	PL.41226	C	6 A (CWC)	7.29Y	121.5	0.01	3.53	19.55	14	137	40	96	0.01	0.0	4.514	0.006	0	0	0	20
PD.6339	PL.40974	C	40QA	7.29Y	121.5	0.00	3.53	19.55	49	137	40	96	0.00	0.0	4.514	0.006	0	0	0	20
PL.40975	PD.6339	C	6 A (CWC)	7.28Y	121.4	0.08	3.61	19.55	14	137	40	96	0.08	0.1	4.599	0.085	0	0	0	20
PL.40976	PL.40975	C	6 A (CWC)	7.28Y	121.3	0.05	3.66	19.55	14	137	40	96	0.05	0.0	4.656	0.057	11	3	1	20
PL.40977	PL.40976	C	6 A (CWC)	7.28Y	121.3	0.06	3.72	17.91	13	125	36	96	0.05	0.0	4.729	0.073	10	3	2	19
PL.40978	PL.40977	C	6 A (CWC)	7.27Y	121.2	0.10	3.81	16.43	12	115	33	96	0.08	0.1	4.858	0.129	0	0	0	17
PL.40979	PL.40978	C	6 A (CWC)	7.27Y	121.1	0.08	3.89	16.09	11	112	33	96	0.06	0.1	4.960	0.102	0	0	0	16
PL.40719	PL.40979	C	#4 ACSR	7.27Y	121.1	0.00	3.89	1.30	1	9	3	95	0.00	0.0	5.062	0.102	9	3	1	1
PL.40980	PL.40979	C	6 A (CWC)	7.26Y	121.0	0.14	4.03	14.80	11	103	30	96	0.11	0.1	5.163	0.203	0	0	0	15
PL.40981	PL.40980	C	6 A (CWC)	7.25Y	120.9	0.06	4.09	14.80	11	103	30	96	0.05	0.0	5.253	0.090	0	0	1	15
PL.40982	PL.40981	C	6 A (CWC)	7.25Y	120.9	0.06	4.15	14.78	11	103	30	96	0.05	0.0	5.346	0.093	6	2	1	14
PL.41131	PL.40982	C	6 A (CWC)	7.25Y	120.8	0.04	4.19	9.77	7	68	20	96	0.02	0.0	5.459	0.112	15	4	1	9
PL.41132	PL.41131	C	6 A (CWC)	7.25Y	120.8	0.00	4.19	3.39	2	24	7	96	0.00	0.0	5.464	0.006	0	0	0	3
PD.6338	PL.41132	C	40QA	7.25Y	120.8	0.00	4.19	3.39	8	24	7	96	0.00	0.0	5.464	0.006	0	0	0	3
PL.41133	PD.6338	C	6 A (CWC)	7.25Y	120.8	0.00	4.20	3.39	2	24	7	96	0.00	0.0	5.518	0.054	24	7	3	3
PL.40163	PL.41133	C	6 A (CWC)	7.25Y	120.8	0.00	4.20	0.00	0	0	0	100	0.00	0.0	5.556	0.038	0	0	0	0
PL.40164	PL.40163	C	6 A (CWC)	7.25Y	120.8	0.00	4.20	0.00	0	0	0	100	0.00	0.0	5.623	0.068	0	0	0	0
PL.57836	PL.41131	C	6 A (CWC)	7.25Y	120.8	0.03	4.22	4.25	3	30	9	96	0.00	0.0	5.615	0.156	11	3	1	5
PL.57838	PL.57836	C	#1/0 ACSR	7.25Y	120.8	0.00	4.22	2.73	1	19	6	95	0.00	0.0	5.635	0.020	9	2	2	4
PL.57837	PL.57838	C	#1/0 ACSR	7.25Y	120.8	0.00	4.22	1.51	1	10	3	96	0.00	0.0	5.688	0.052	0	0	1	2
PL.63147	PL.57837	C	#1/0 ACSR	7.25Y	120.8	0.00	4.22	1.44	1	10	3	96	0.00	0.0	5.691	0.004	0	0	0	1
PD.9415	PL.63147	C	25T	7.25Y	120.8	0.00	4.22	1.44	0	10	3	96	0.00	0.0	5.691	0.004	0	0	0	1
PL.63148	PD.9415	C	#1/0 ACSR	7.25Y	120.8	0.00	4.22	1.44	1	10	3	96	0.00	0.0	5.710	0.019	0	0	0	1
PL.63146	PL.63148	C	#1/0 ACSR	7.25Y	120.8	0.00	4.22	1.44	1	10	3	96	0.00	0.0	5.759	0.049	0	0	0	1
PL.63149	PL.63146	C	#1/0 ACSR	7.25Y	120.8	0.00	4.23	1.44	1	10	3	96	0.00	0.0	5.812	0.053	10	3	1	1
PL.40720	PL.40982	C	6 A (CWC)	7.25Y	120.8	0.01	4.16	2.43	2	17	5	96	0.00	0.0	5.534	0.188	17	5	3	3

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40345	PL.40982	C	6 A (CWC)	7.25Y	120.8	0.00	4.15	1.71	1	12	3	97	0.00	0.0	5.407	0.061	12	3	1	1
PL.40414	PL.40978	C	6 A (CWC)	7.27Y	121.2	0.00	3.81	0.33	0	2	1	89	0.00	0.0	4.927	0.069	2	1	1	1
PL.40473	PL.40470	C	#2 ACSR	7.29Y	121.6	0.00	3.43	5.73	3	40	12	96	0.00	0.0	4.105	0.006	0	0	0	4
PD.6247	PL.40473	C	40QA	7.29Y	121.6	0.00	3.43	5.73	14	40	12	96	0.00	0.0	4.105	0.006	0	0	0	4
PL.40474	PD.6247	C	#2 ACSR	7.29Y	121.6	0.01	3.44	5.73	3	40	12	96	0.00	0.0	4.167	0.062	6	2	1	4
PL.40475	PL.40474	C	#2 ACSR	7.29Y	121.5	0.01	3.45	3.29	2	23	7	96	0.00	0.0	4.249	0.082	0	0	0	2
PL.40231	PL.40475	C	#2 ACSR	7.29Y	121.5	0.00	3.46	1.65	1	12	3	97	0.00	0.0	4.359	0.110	12	3	1	1
PL.41223	PL.40475	C	#2 ACSR	7.29Y	121.5	0.00	3.45	1.64	1	11	3	96	0.00	0.0	4.321	0.072	11	3	1	1
PL.40810	PL.40474	C	#2 ACSR	7.29Y	121.6	0.00	3.45	1.53	1	11	3	96	0.00	0.0	4.324	0.157	11	3	1	1
PL.41216	PL.41215	A	#2 ACSR	7.31Y	121.8	0.00	3.18	0.87	0	6	2	95	0.00	0.0	3.309	0.006	0	0	0	1
PD.6249	PL.41216	A	40QA	7.31Y	121.8	0.00	3.18	0.87	2	6	2	95	0.00	0.0	3.309	0.006	0	0	0	1
PL.41217	PD.6249	A	#2 ACSR	7.31Y	121.8	0.00	3.18	0.87	0	6	2	95	0.00	0.0	3.340	0.031	6	2	1	1
PL.41218	PL.41215	C	#2 ACSR	7.31Y	121.8	0.00	3.18	5.13	3	36	10	96	0.00	0.0	3.309	0.006	0	0	0	3
PD.6250	PL.41218	C	40QA	7.31Y	121.8	0.00	3.18	5.13	13	36	10	96	0.00	0.0	3.309	0.006	0	0	0	3
PL.41219	PD.6250	C	#2 ACSR	7.31Y	121.8	0.00	3.19	5.13	3	36	10	96	0.00	0.0	3.342	0.033	12	4	1	3
PL.52043	PL.41219	C	#2 ACSR	7.31Y	121.8	0.00	3.19	3.39	2	24	7	96	0.00	0.0	3.390	0.048	5	2	1	2
PL.52044	PL.52043	C	#2 ACSR	7.31Y	121.8	0.00	3.20	2.65	2	19	5	97	0.00	0.0	3.448	0.059	0	0	0	1
PL.52045	PL.52044	C	#2 ACSR	7.31Y	121.8	0.00	3.20	2.65	2	19	5	97	0.00	0.0	3.514	0.065	19	5	1	1
PL.41209	PL.40482	C	#2 ACSR	7.32Y	122.0	0.00	3.04	2.98	2	21	6	96	0.00	0.0	2.949	0.006	0	0	0	3
PD.6251	PL.41209	C	40QA	7.32Y	122.0	0.00	3.04	2.98	7	21	6	96	0.00	0.0	2.949	0.006	0	0	0	3
PL.60718	PD.6251	C	#2 ACSR	7.32Y	122.0	0.00	3.04	2.98	2	21	6	96	0.00	0.0	3.007	0.058	11	3	2	3
PL.60719	PL.60718	C	#2 ACSR	7.32Y	122.0	0.00	3.05	1.38	1	10	3	96	0.00	0.0	3.086	0.079	10	3	1	1
PL.40189	PL.40482	A	#2 ACSR	7.32Y	122.0	0.00	3.04	1.21	1	9	2	98	0.00	0.0	2.974	0.030	9	2	1	1
PL.61808	PL.61807	A	#1/0 ACSR	7.33Y	122.1	0.00	2.87	2.26	1	16	5	95	0.00	0.0	2.546	0.004	0	0	0	1
PD.9340	PL.61808	A	10T	7.33Y	122.1	0.00	2.87	2.26	0	16	5	95	0.00	0.0	2.546	0.004	0	0	0	1
PL.61809	PD.9340	A	#1/0 ACSR	7.33Y	122.1	0.00	2.87	2.26	1	16	5	95	0.00	0.0	2.554	0.008	16	5	1	1
PL.61810	PL.62214	ABC	336 MCM AC	7.33Y	122.2	0.01	2.85	24.46	5	516	150	96	0.03	0.0	2.532	0.051	16	5	3	62
PL.62074	PL.61810	ABC	336 MCM AC	7.33Y	122.1	0.01	2.86	23.70	5	500	146	96	0.02	0.0	2.576	0.044	10	3	1	59
PL.62075	PL.62074	ABC	336 MCM AC	7.33Y	122.1	0.01	2.86	23.21	4	490	143	96	0.01	0.0	2.607	0.031	10	3	1	58
PL.62076	PL.62075	ABC	336 MCM AC	7.33Y	122.1	0.01	2.87	22.73	4	480	140	96	0.01	0.0	2.636	0.029	0	0	0	57
PD.9291	PL.62076	ABC	70L	7.33Y	122.1	0.00	2.87	22.73	32	480	139	96	0.00	0.0	2.636	0.029	0	0	0	57

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62077	PD.9291	ABC	336 MCM AC	7.33Y	122.1	0.01	2.87	22.73	4	480	139	96	0.02	0.0	2.673	0.036	0	0	0	57
PL.62078	PL.62077	ABC	336 MCM AC	7.33Y	122.1	0.01	2.88	22.73	4	480	139	96	0.01	0.0	2.706	0.034	0	0	0	57
PL.62079	PL.62078	B	#4 ACSR	7.33Y	122.1	0.00	2.88	1.03	1	7	2	96	0.00	0.0	2.709	0.003	0	0	0	3
PD.9292	PL.62079	B	25T	7.33Y	122.1	0.00	2.88	1.03	0	7	2	96	0.00	0.0	2.709	0.003	0	0	0	3
PL.62080	PD.9292	B	#4 ACSR	7.33Y	122.1	0.00	2.88	1.03	1	7	2	96	0.00	0.0	2.741	0.032	7	2	2	3
PL.62081	PL.62080	B	#4 ACSR	7.33Y	122.1	0.00	2.88	0.03	0	0	0	100	0.00	0.0	2.874	0.133	0	0	1	1
PL.62082	PL.62078	ABC	336 MCM AC	7.33Y	122.1	0.01	2.89	22.39	4	473	137	96	0.03	0.0	2.778	0.071	0	0	0	54
PL.62216	PL.62082	B	#1/0 ACSR	7.33Y	122.1	0.00	2.89	1.61	1	11	3	96	0.00	0.0	2.781	0.003	0	0	0	1
PD.9293	PL.62216	B	20T	7.33Y	122.1	0.00	2.89	1.61	0	11	3	96	0.00	0.0	2.781	0.003	0	0	0	1
PL.63834	PD.9293	B	#1/0 ACSR	7.33Y	122.1	0.00	2.89	1.61	1	11	3	96	0.00	0.0	2.810	0.029	11	3	1	1
PL.62215	PL.62082	ABC	336 MCM AC	7.33Y	122.1	0.01	2.90	21.85	4	461	134	96	0.02	0.0	2.830	0.052	0	0	0	53
PL.61545	PL.62215	ABC	336 MCM AC	7.33Y	122.1	0.01	2.91	21.85	4	461	134	96	0.02	0.0	2.892	0.062	0	0	0	53
PL.61546	PL.61545	B	#4 ACSR	7.33Y	122.1	0.00	2.91	0.71	1	5	1	98	0.00	0.0	2.895	0.003	0	0	0	1
PD.9294	PL.61546	B	25T	7.33Y	122.1	0.00	2.91	0.71	0	5	1	98	0.00	0.0	2.895	0.003	0	0	0	1
PL.61547	PD.9294	B	#4 ACSR	7.33Y	122.1	0.00	2.91	0.71	1	5	1	98	0.00	0.0	2.953	0.058	5	1	1	1
PL.61548	PL.61545	A	6 A (CWC)	7.33Y	122.1	0.00	2.91	1.17	1	8	2	97	0.00	0.0	2.895	0.003	0	0	0	1
PD.9295	PL.61548	A	25T	7.33Y	122.1	0.00	2.91	1.17	0	8	2	97	0.00	0.0	2.895	0.003	0	0	0	1
PL.61549	PD.9295	A	6 A (CWC)	7.33Y	122.1	0.00	2.91	1.17	1	8	2	97	0.00	0.0	2.916	0.021	8	2	1	1
PL.63353	PL.61549	A	#4 ACSR	7.33Y	122.1	0.00	2.91	0.00	0	0	0	100	0.00	0.0	2.987	0.071	0	0	0	0
PL.62151	PL.61545	ABC	336 MCM AC	7.32Y	122.1	0.01	2.92	21.22	4	448	130	96	0.02	0.0	2.938	0.046	0	0	0	51
PL.62153	PL.62151	B	#1/0 ACSR	7.32Y	122.1	0.00	2.92	0.01	0	0	0	100	0.00	0.0	2.977	0.039	0	0	0	1
PL.62439	PL.62153	B	#2 ACSR	7.32Y	122.1	0.00	2.92	0.01	0	0	0	100	0.00	0.0	2.980	0.003	0	0	0	1
PD.9376	PL.62439	B	10T	7.32Y	122.1	0.00	2.92	0.01	0	0	0	100	0.00	0.0	2.980	0.003	0	0	0	1
PL.62440	PD.9376	B	#2 ACSR	7.32Y	122.1	0.00	2.92	0.01	0	0	0	100	0.00	0.0	3.046	0.066	0	0	1	1
PL.62152	PL.62151	ABC	336 MCM AC	7.32Y	122.1	0.01	2.92	21.22	4	448	130	96	0.01	0.0	2.972	0.033	12	4	1	50
PL.61798	PL.62152	ABC	336 MCM AC	7.32Y	122.1	0.01	2.93	19.51	4	412	119	96	0.02	0.0	3.043	0.072	0	0	0	47
PL.61801	PL.61798	B	#1/0 ACSR	7.32Y	122.1	0.00	2.93	2.33	1	16	5	95	0.00	0.0	3.045	0.002	0	0	0	3
PD.9297	PL.61801	B	25T	7.32Y	122.1	0.00	2.93	2.33	0	16	5	95	0.00	0.0	3.045	0.002	0	0	0	3
PL.61795	PD.9297	B	#1/0 ACSR	7.32Y	122.1	0.00	2.93	2.33	1	16	5	95	0.00	0.0	3.069	0.024	13	4	2	3
PL.40199	PL.61795	B	#4 ACSR 6/	7.32Y	122.1	0.00	2.93	0.55	0	4	1	97	0.00	0.0	3.103	0.034	4	1	1	1
PL.61799	PL.61798	A	#1/0 ACSR	7.32Y	122.1	0.00	2.94	8.26	4	58	17	96	0.00	0.0	3.065	0.022	0	0	0	4

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.61796	PL.61799	A	#2 ACSR	7.32Y	122.1	0.00	2.94	2.14	1	15	4	97	0.00	0.0	3.067	0.002	0	0	0	1
PD.9298	PL.61796	A	25T	7.32Y	122.1	0.00	2.94	2.14	0	15	4	97	0.00	0.0	3.067	0.002	0	0	0	1
PL.61797	PD.9298	A	#2 ACSR	7.32Y	122.1	0.00	2.94	2.14	1	15	4	97	0.00	0.0	3.115	0.048	15	4	1	1
PL.63392	PL.61799	A	#1/0 ACSR	7.32Y	122.1	0.00	2.94	6.12	3	43	12	96	0.00	0.0	3.067	0.002	0	0	0	3
PD.9417	PL.63392	A	25T	7.32Y	122.1	0.00	2.94	6.12	0	43	12	96	0.00	0.0	3.067	0.002	0	0	0	3
PL.63393	PD.9417	A	#1/0 ACSR	7.32Y	122.1	0.01	2.94	6.12	3	43	12	96	0.00	0.0	3.103	0.036	0	0	0	3
PL.63394	PL.63393	A	#1/0 ACSR	7.32Y	122.1	0.01	2.95	6.12	3	43	12	96	0.00	0.0	3.147	0.044	0	0	0	3
PL.63395	PL.63394	A	#1/0 ACSR	7.32Y	122.0	0.01	2.96	6.12	3	43	12	96	0.00	0.0	3.212	0.065	0	0	0	3
PL.63396	PL.63395	A	#1/0 ACSR	7.32Y	122.0	0.02	2.98	6.12	3	43	12	96	0.01	0.0	3.348	0.135	0	0	0	3
PL.63411	PL.63396	A	#1/0 ACSR	7.32Y	122.0	0.01	2.99	6.12	3	43	12	96	0.00	0.0	3.442	0.094	0	0	0	3
PL.63415	PL.63411	A	#1/0 ACSR	7.32Y	122.0	0.00	2.99	1.81	1	13	4	96	0.00	0.0	3.521	0.079	0	0	0	1
PL.63416	PL.63415	A	#1/0 ACSR	7.32Y	122.0	0.00	3.00	1.81	1	13	4	96	0.00	0.0	3.584	0.064	0	0	0	1
PL.63417	PL.63416	A	#1/0 ACSR	7.32Y	122.0	0.00	3.00	1.81	1	13	4	96	0.00	0.0	3.620	0.036	0	0	0	1
PL.63418	PL.63417	A	#1/0 ACSR	7.32Y	122.0	0.00	3.00	1.81	1	13	4	96	0.00	0.0	3.691	0.071	0	0	0	1
PL.63419	PL.63418	A	1/0 AL URD	7.32Y	122.0	0.00	3.00	1.81	1	13	4	96	0.00	0.0	3.737	0.046	13	4	1	1
PL.63412	PL.63411	A	#1/0 ACSR	7.32Y	122.0	0.00	2.99	1.44	1	10	3	96	0.00	0.0	3.448	0.006	0	0	0	1
PD.9420	PL.63412	A	15T	7.32Y	122.0	0.00	2.99	1.44	0	10	3	96	0.00	0.0	3.448	0.006	0	0	0	1
PL.63413	PD.9420	A	#1/0 ACSR	7.32Y	122.0	0.00	2.99	1.44	1	10	3	96	0.00	0.0	3.495	0.047	0	0	0	1
PL.63414	PL.63413	A	#1/0 ACSR	7.32Y	122.0	0.00	2.99	1.44	1	10	3	96	0.00	0.0	3.569	0.074	10	3	1	1
PL.63397	PL.63411	A	#1/0 ACSR	7.32Y	122.0	0.00	2.99	2.86	1	20	6	96	0.00	0.0	3.444	0.003	0	0	0	1
PD.9418	PL.63397	A	10T	7.32Y	122.0	0.00	2.99	2.86	0	20	6	96	0.00	0.0	3.444	0.003	0	0	0	1
PL.63398	PD.9418	A	#1/0 ACSR	7.32Y	122.0	0.00	2.99	2.86	1	20	6	96	0.00	0.0	3.499	0.054	0	0	0	1
PL.63399	PL.63398	A	#1/0 ACSR	7.32Y	122.0	0.00	3.00	2.86	1	20	6	96	0.00	0.0	3.538	0.039	0	0	0	1
PL.63400	PL.63399	A	#1/0 ACSR	7.32Y	122.0	0.00	3.00	2.86	1	20	6	96	0.00	0.0	3.610	0.072	20	6	1	1
PL.61800	PL.61798	ABC	336 MCM AC	7.32Y	122.1	0.01	2.95	15.98	3	337	98	96	0.02	0.0	3.148	0.104	0	0	0	40
PL.62236	PL.61800	B	#1/0 ACSR	7.32Y	122.1	0.00	2.95	5.13	2	36	10	96	0.00	0.0	3.151	0.003	0	0	0	5
PD.9299	PL.62236	B	25T	7.32Y	122.1	0.00	2.95	5.13	0	36	10	96	0.00	0.0	3.151	0.003	0	0	0	5
PL.62237	PD.9299	B	#1/0 ACSR	7.32Y	122.1	0.00	2.95	5.13	2	36	10	96	0.00	0.0	3.177	0.026	10	3	2	5
PL.41270	PL.62237	B	#4 ACSR 6/	7.32Y	122.0	0.00	2.95	3.37	2	24	7	96	0.00	0.0	3.213	0.036	24	7	2	2
PL.39665	PL.62237	B	#2 ACSR 6/	7.32Y	122.1	0.00	2.95	0.32	0	2	1	89	0.00	0.0	3.219	0.042	2	1	1	1
PL.62335	PL.61800	ABC	336 MCM AC	7.32Y	122.1	0.00	2.95	14.26	3	301	87	96	0.01	0.0	3.180	0.033	0	0	0	35

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62336	PL.62335	A	#1/0 ACSR	7.32Y	122.1	0.00	2.95	5.74	2	40	12	96	0.00	0.0	3.182	0.001	0	0	0	5
PD.9330	PL.62336	A	25T	7.32Y	122.1	0.00	2.95	5.74	0	40	12	96	0.00	0.0	3.182	0.001	0	0	0	5
PL.62337	PD.9330	A	#1/0 ACSR	7.32Y	122.1	0.00	2.95	5.74	2	40	12	96	0.00	0.0	3.183	0.001	0	0	0	5
PL.62334	PL.62337	A	#1/0 ACSR	7.32Y	122.0	0.00	2.95	3.29	1	23	7	96	0.00	0.0	3.219	0.036	23	7	4	4
PL.62333	PL.62337	A	#1/0 ACSR	7.32Y	122.0	0.00	2.95	2.45	1	17	5	96	0.00	0.0	3.216	0.033	17	5	1	1
PL.62813	PL.62335	ABC	336 MCM AC	7.32Y	122.0	0.01	2.96	12.35	2	261	76	96	0.01	0.0	3.264	0.083	16	5	1	30
PL.62815	PL.62813	A	#4 ACSR	7.32Y	122.0	0.00	2.96	4.59	4	32	9	96	0.00	0.0	3.267	0.003	0	0	0	3
PD.9300	PL.62815	A	25T	7.32Y	122.0	0.00	2.96	4.59	0	32	9	96	0.00	0.0	3.267	0.003	0	0	0	3
PL.62817	PD.9300	A	#4 ACSR	7.32Y	122.0	0.01	2.96	4.59	4	32	9	96	0.00	0.0	3.299	0.033	13	4	1	3
PL.62816	PL.62817	A	#2 ACSR 6/	7.32Y	122.0	0.00	2.97	2.80	2	20	6	96	0.00	0.0	3.338	0.038	0	0	0	2
PL.62238	PL.62816	A	#2 ACSR 6/	7.32Y	122.0	0.00	2.97	2.80	2	20	6	96	0.00	0.0	3.389	0.051	10	3	1	2
PL.41271	PL.62238	A	#2 ACSR 6/	7.32Y	122.0	0.00	2.97	1.33	1	9	3	95	0.00	0.0	3.434	0.045	9	3	1	1
PL.62814	PL.62813	ABC	336 MCM AC	7.32Y	122.0	0.00	2.96	10.05	2	212	61	96	0.00	0.0	3.299	0.036	0	0	0	26
PL.62239	PL.62814	ABC	336 MCM AC	7.32Y	122.0	0.00	2.96	10.05	2	212	61	96	0.00	0.0	3.351	0.052	0	0	0	26
PL.62159	PL.62239	ABC	336 MCM AC	7.32Y	122.0	0.00	2.97	9.63	2	203	59	96	0.01	0.0	3.415	0.065	0	0	0	25
PL.62160	PL.62159	ABC	336 MCM AC	7.32Y	122.0	0.00	2.97	9.63	2	203	59	96	0.00	0.0	3.463	0.048	0	0	0	25
PL.62268	PL.62160	ABC	336 MCM AC	7.32Y	122.0	0.01	2.98	8.87	2	187	54	96	0.01	0.0	3.575	0.112	0	0	0	24
PL.62270	PL.62268	B	#1/0 ACSR	7.32Y	122.0	0.00	2.98	3.79	2	27	8	96	0.00	0.0	3.578	0.003	0	0	0	3
PD.9310	PL.62270	B	25T	7.32Y	122.0	0.00	2.98	3.79	0	27	8	96	0.00	0.0	3.578	0.003	0	0	0	3
PL.62271	PD.9310	B	#1/0 ACSR	7.32Y	122.0	0.00	2.98	3.79	2	27	8	96	0.00	0.0	3.598	0.020	13	4	2	3
PL.41272	PL.62271	B	#1/0 ACSR	7.32Y	122.0	0.00	2.98	1.89	1	13	4	96	0.00	0.0	3.649	0.051	0	0	0	1
PL.41273	PL.41272	B	#4 ACSR 6/	7.32Y	122.0	0.00	2.98	1.89	1	13	4	96	0.00	0.0	3.679	0.031	13	4	1	1
PL.40557	PL.41272	B	#2 ACSR 6/	7.32Y	122.0	0.00	2.98	0.00	0	0	0	100	0.00	0.0	3.772	0.124	0	0	0	0
PL.62269	PL.62268	ABC	336 MCM AC	7.32Y	122.0	0.01	2.98	7.60	1	160	46	96	0.00	0.0	3.666	0.092	0	0	0	21
PL.61811	PL.62269	ABC	336 MCM AC	7.32Y	122.0	0.00	2.99	7.60	1	160	46	96	0.00	0.0	3.700	0.034	38	11	3	21
PL.61812	PL.61811	ABC	336 MCM AC	7.32Y	122.0	0.00	2.99	5.23	1	110	32	96	0.00	0.0	3.810	0.110	1	0	2	16
PL.61813	PL.61812	ABC	336 MCM AC	7.32Y	122.0	0.00	2.99	5.19	1	109	32	96	0.00	0.0	3.897	0.086	32	9	3	14
PL.40983	PL.61813	ABC	#2 ACSR	7.32Y	122.0	0.01	3.00	3.65	2	77	22	96	0.00	0.0	3.981	0.085	5	2	1	11
PL.40984	PL.40983	ABC	#2 ACSR	7.32Y	122.0	0.00	3.00	3.39	2	72	21	96	0.00	0.0	4.024	0.042	11	3	2	10
PL.40985	PL.40984	ABC	#2 ACSR	7.32Y	122.0	0.00	3.01	2.86	2	60	17	96	0.00	0.0	4.066	0.042	9	3	1	8
PL.40986	PL.40985	ABC	#2 ACSR	7.32Y	122.0	0.00	3.01	2.45	1	52	15	96	0.00	0.0	4.139	0.073	7	2	3	7

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.53753	PL.40986	ABC	#2 ACSR	7.32Y	122.0	0.00	3.01	2.13	1	45	13	96	0.00	0.0	4.212	0.073	0	0	0	4
PL.60750	PL.53753	ABC	#2 ACSR	7.32Y	122.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	4.302	0.090	0	0	0	0
PD.9062-A	PL.60750	ABC	Open	7.32Y	122.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	4.302	0.090	0	0	0	0
PL.53754	PL.53753	B	#4 ACSR	7.32Y	122.0	0.00	3.02	6.40	5	45	13	96	0.00	0.0	4.218	0.006	0	0	0	4
PD.6355	PL.53754	B	40QA	7.32Y	122.0	0.00	3.02	6.40	16	45	13	96	0.00	0.0	4.218	0.006	0	0	0	4
PL.40989	PD.6355	B	#4 ACSR	7.32Y	122.0	0.01	3.02	6.40	5	45	13	96	0.00	0.0	4.262	0.044	45	13	4	4
PL.40987	PL.61813	A	#4 ACSR	7.32Y	122.0	0.00	2.99	0.00	0	0	0	100	0.00	0.0	3.902	0.006	0	0	0	0
PD.6342	PL.40987	A	40QA	7.32Y	122.0	0.00	2.99	0.00	0	0	0	100	0.00	0.0	3.902	0.006	0	0	0	0
PL.40988	PD.6342	A	#4 ACSR	7.32Y	122.0	0.00	2.99	0.00	0	0	0	100	0.00	0.0	3.991	0.088	0	0	0	0
PL.62272	PL.61811	A	#1/0 ACSR	7.32Y	122.0	0.00	2.99	1.68	1	12	3	97	0.00	0.0	3.703	0.003	0	0	0	2
PD.9311	PL.62272	A	25T	7.32Y	122.0	0.00	2.99	1.68	0	12	3	97	0.00	0.0	3.703	0.003	0	0	0	2
PL.62274	PD.9311	A	#1/0 ACSR	7.32Y	122.0	0.00	2.99	1.68	1	12	3	97	0.00	0.0	3.736	0.033	2	1	1	2
PL.62273	PL.62274	A	#4 ACSR	7.32Y	122.0	0.00	2.99	1.43	1	10	3	96	0.00	0.0	3.769	0.033	0	0	0	1
PL.60826	PL.62273	A	#1/0 ACSR	7.32Y	122.0	0.00	2.99	1.43	1	10	3	96	0.00	0.0	3.814	0.044	10	3	1	1
PL.62266	PL.62160	B	#1/0 ACSR	7.32Y	122.0	0.00	2.97	2.28	1	16	5	95	0.00	0.0	3.466	0.003	0	0	0	1
PD.9309	PL.62266	B	25T	7.32Y	122.0	0.00	2.97	2.28	0	16	5	95	0.00	0.0	3.466	0.003	0	0	0	1
PL.62267	PD.9309	B	#1/0 ACSR	7.32Y	122.0	0.00	2.97	2.28	1	16	5	95	0.00	0.0	3.526	0.060	16	5	1	1
PL.62242	PL.62239	A	#1/0 ACSR	7.32Y	122.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	3.354	0.003	0	0	0	0
PD.9301	PL.62242	A	25T	7.32Y	122.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	3.354	0.003	0	0	0	0
PL.62243	PD.9301	A	#1/0 ACSR	7.32Y	122.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	3.405	0.051	0	0	0	0
PL.62240	PL.62243	A	#2 ACSR	7.32Y	122.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	3.439	0.034	0	0	0	0
PL.62241	PL.62239	A	#2 ACSR	7.32Y	122.0	0.00	2.96	1.27	1	9	3	95	0.00	0.0	3.382	0.031	9	3	1	1
PL.61550	PL.62152	B	#4 ACSR	7.32Y	122.1	0.00	2.92	3.41	3	24	7	96	0.00	0.0	2.975	0.003	0	0	0	2
PD.9296	PL.61550	B	25T	7.32Y	122.1	0.00	2.92	3.41	0	24	7	96	0.00	0.0	2.975	0.003	0	0	0	2
PL.62156	PD.9296	B	#4 ACSR	7.32Y	122.1	0.00	2.93	3.41	3	24	7	96	0.00	0.0	3.013	0.038	24	7	2	2
PL.62210	PL.62209	A	#1/0 ACSR	7.33Y	122.2	0.00	2.81	2.40	1	17	5	96	0.00	0.0	2.398	0.003	0	0	0	2
PD.9289	PL.62210	A	30T	7.33Y	122.2	0.00	2.81	2.40	0	17	5	96	0.00	0.0	2.398	0.003	0	0	0	2
PL.62211	PD.9289	A	#1/0 ACSR	7.33Y	122.2	0.00	2.81	2.40	1	17	5	96	0.00	0.0	2.449	0.051	17	5	2	2
PL.62196	PL.62194	ABC	#1/0 ACSR	7.34Y	122.3	0.02	2.69	34.73	15	734	216	96	0.09	0.0	2.086	0.028	0	0	0	91
PL.62197	PL.62196	ABC	#1/0 ACSR	7.34Y	122.3	0.00	2.70	34.73	15	734	215	96	0.01	0.0	2.090	0.003	0	0	0	91
PD.9286	PL.62197	ABC	50L	7.34Y	122.3	0.00	2.70	34.73	69	734	215	96	0.00	0.0	2.090	0.003	0	0	0	91

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62198	PD.9286	ABC	#1/0 ACSR	7.33Y	122.2	0.10	2.80	34.73	15	734	215	96	0.52	0.1	2.254	0.164	6	2	1	91
PL.41198	PL.62198	ABC	#1/0 ACSR	7.32Y	122.0	0.19	2.99	34.43	15	727	213	96	0.98	0.1	2.568	0.314	15	4	1	90
PL.40963	PL.41198	ABC	#1/0 ACSR	7.32Y	122.0	0.05	3.04	32.46	14	684	200	96	0.23	0.0	2.650	0.082	0	0	0	85
PL.40966	PL.40963	A	#4 ACSR	7.32Y	122.0	0.00	3.04	0.39	0	3	1	95	0.00	0.0	2.656	0.006	0	0	0	1
PD.6319	PL.40966	A	40QA	7.32Y	122.0	0.00	3.04	0.39	1	3	1	95	0.00	0.0	2.656	0.006	0	0	0	1
PL.40512	PD.6319	A	#4 ACSR	7.32Y	122.0	0.00	3.04	0.39	0	3	1	95	0.00	0.0	2.789	0.134	3	1	1	1
PL.40964	PL.40963	ABC	#1/0 ACSR	7.32Y	121.9	0.04	3.08	32.33	14	681	199	96	0.17	0.0	2.712	0.062	9	3	1	84
PL.40965	PL.40964	ABC	#1/0 ACSR	7.31Y	121.9	0.02	3.10	31.89	14	672	196	96	0.11	0.0	2.754	0.042	12	4	1	83
PL.40518	PL.40965	ABC	#1/0 ACSR	7.31Y	121.9	0.04	3.14	31.30	14	659	193	96	0.18	0.0	2.823	0.069	9	3	1	82
PL.40515	PL.40518	C	6 A (CWC)	7.31Y	121.9	0.00	3.14	2.32	2	16	5	95	0.00	0.0	2.826	0.003	0	0	0	1
PD.6360	PL.40515	C	40QA	7.31Y	121.9	0.00	3.14	2.32	6	16	5	95	0.00	0.0	2.826	0.003	0	0	0	1
PL.40516	PD.6360	C	6 A (CWC)	7.31Y	121.9	0.00	3.15	2.32	2	16	5	95	0.00	0.0	2.901	0.075	16	5	1	1
PL.40517	PL.40516	C	6 A (CWC)	7.31Y	121.9	0.00	3.15	0.00	0	0	0	100	0.00	0.0	2.974	0.073	0	0	0	0
PL.40519	PL.40518	ABC	#1/0 ACSR	7.31Y	121.8	0.04	3.18	29.93	13	630	184	96	0.18	0.0	2.899	0.077	17	5	1	79
PL.41204	PL.40519	ABC	#1/0 ACSR	7.31Y	121.8	0.05	3.23	28.59	12	602	176	96	0.22	0.0	3.000	0.101	3	1	1	76
PL.41205	PL.41204	ABC	#1/0 ACSR	7.30Y	121.7	0.04	3.27	28.44	12	598	175	96	0.15	0.0	3.069	0.069	0	0	0	75
PL.60743	PL.41205	ABC	#1/0 ACSR	7.30Y	121.7	0.06	3.33	28.44	12	598	174	96	0.24	0.0	3.179	0.110	0	0	0	74
PL.60745	PL.60743	A	#1/0 ACSR	7.30Y	121.7	0.00	3.33	2.26	1	16	5	95	0.00	0.0	3.183	0.003	0	0	0	1
PD.9061	PL.60745	A	20T	7.30Y	121.7	0.00	3.33	2.26	0	16	5	95	0.00	0.0	3.183	0.003	0	0	0	1
PL.60746	PD.9061	A	#1/0 ACSR	7.30Y	121.7	0.00	3.33	2.26	1	16	5	95	0.00	0.0	3.203	0.020	16	5	1	1
PL.60744	PL.60743	ABC	#1/0 ACSR	7.30Y	121.6	0.03	3.35	27.69	12	582	170	96	0.11	0.0	3.233	0.053	0	0	0	73
PL.41252	PL.60744	ABC	#1/0 ACSR	7.30Y	121.6	0.01	3.37	18.04	8	379	110	96	0.03	0.0	3.267	0.034	0	0	0	47
PL.41253	PL.41252	ABC	#1/0 ACSR	7.30Y	121.6	0.02	3.39	18.04	8	379	110	96	0.06	0.0	3.339	0.072	11	3	1	47
PL.41254	PL.41253	ABC	#1/0 ACSR	7.30Y	121.6	0.02	3.41	17.52	8	368	107	96	0.05	0.0	3.404	0.065	0	0	1	46
PL.41255	PL.41254	A	#4 ACSR	7.30Y	121.6	0.00	3.41	1.02	1	7	2	96	0.00	0.0	3.409	0.006	0	0	0	1
PD.6301	PL.41255	A	40QA	7.30Y	121.6	0.00	3.41	1.02	3	7	2	96	0.00	0.0	3.409	0.006	0	0	0	1
PL.41256	PD.6301	A	#4 ACSR	7.30Y	121.6	0.00	3.41	1.02	1	7	2	96	0.00	0.0	3.478	0.069	7	2	1	1
PL.59198	PL.41254	ABC	#1/0 ACSR	7.29Y	121.6	0.01	3.42	17.17	7	361	105	96	0.02	0.0	3.433	0.029	23	7	2	44
PL.59199	PL.59198	ABC	#1/0 ACSR	7.29Y	121.6	0.02	3.44	16.07	7	338	98	96	0.05	0.0	3.505	0.072	0	0	0	42
PL.60674	PL.59199	B	#1/0 ACSR	7.29Y	121.6	0.00	3.44	1.98	1	14	4	96	0.00	0.0	3.580	0.075	0	0	0	1
PL.60675	PL.60674	B	#1/0 ACSR	7.29Y	121.6	0.00	3.44	1.98	1	14	4	96	0.00	0.0	3.615	0.035	14	4	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.41257	PL.59199	ABC	#1/0 ACSR	7.29Y	121.5	0.02	3.46	15.41	7	324	94	96	0.05	0.0	3.580	0.076	7	2	1	41
PL.41258	PL.41257	ABC	#1/0 ACSR	7.29Y	121.5	0.03	3.49	14.48	6	304	88	96	0.06	0.0	3.688	0.108	17	5	1	39
PL.41262	PL.41258	ABC	#1/0 ACSR	7.29Y	121.5	0.01	3.50	13.67	6	287	84	96	0.02	0.0	3.721	0.034	12	3	2	38
PL.41263	PL.41262	ABC	#1/0 ACSR	7.29Y	121.5	0.03	3.52	13.12	6	275	80	96	0.05	0.0	3.833	0.112	4	1	1	36
PL.41265	PL.41263	A	#4 ACSR	7.29Y	121.5	0.00	3.52	6.57	5	46	13	96	0.00	0.0	3.839	0.006	0	0	0	5
PD.6290	PL.41265	A	40QA	7.29Y	121.5	0.00	3.52	6.57	16	46	13	96	0.00	0.0	3.839	0.006	0	0	0	5
PL.41128	PD.6290	A	#4 ACSR	7.29Y	121.5	0.03	3.55	6.57	5	46	13	96	0.01	0.0	3.926	0.087	0	0	0	5
PL.41129	PL.41128	A	#4 ACSR	7.29Y	121.4	0.01	3.55	6.57	5	46	13	96	0.00	0.0	3.947	0.021	8	2	1	5
PL.41130	PL.41129	A	#4 ACSR	7.29Y	121.4	0.02	3.57	5.46	4	38	11	96	0.01	0.0	4.020	0.074	2	1	1	4
PL.40970	PL.41130	A	#4 ACSR	7.28Y	121.4	0.02	3.59	5.20	4	36	11	96	0.00	0.0	4.091	0.070	0	0	0	3
PL.40971	PL.40970	A	#4 ACSR	7.28Y	121.4	0.01	3.60	5.20	4	36	11	96	0.00	0.0	4.140	0.049	0	0	0	3
PL.40766	PL.40971	A	#4 ACSR	7.28Y	121.4	0.00	3.60	2.89	2	20	6	96	0.00	0.0	4.180	0.041	20	6	1	1
PL.40972	PL.40971	A	#4 ACSR	7.28Y	121.4	0.00	3.60	0.05	0	0	0	100	0.00	0.0	4.182	0.043	0	0	1	1
PL.40990	PL.40972	A	#4 ACSR	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	4.374	0.192	0	0	0	0
PL.40286	PL.40971	A	#4 ACSR	7.28Y	121.4	0.00	3.60	2.27	2	16	5	95	0.00	0.0	4.190	0.050	16	5	1	1
PL.40991	PL.41263	ABC	#1/0 ACSR	7.29Y	121.4	0.04	3.56	9.61	4	202	59	96	0.05	0.0	4.045	0.211	0	0	0	26
PL.59200	PL.40991	ABC	#1/0 ACSR	7.28Y	121.4	0.04	3.59	8.93	4	187	55	96	0.05	0.0	4.262	0.218	0	0	0	24
PL.59201	PL.59200	ABC	#1/0 ACSR	7.28Y	121.4	0.01	3.61	8.93	4	187	54	96	0.02	0.0	4.342	0.080	9	3	1	24
PL.40996	PL.59201	ABC	#1/0 ACSR	7.28Y	121.4	0.01	3.62	8.51	4	179	52	96	0.02	0.0	4.433	0.091	5	2	1	23
PL.40997	PL.40996	ABC	#1/0 ACSR	7.28Y	121.3	0.04	3.66	8.25	4	173	50	96	0.04	0.0	4.672	0.239	0	0	0	22
PL.40956	PL.40997	C	#2 ACSR	7.28Y	121.3	0.00	3.66	0.46	0	3	1	95	0.00	0.0	4.678	0.006	0	0	0	1
PD.6313	PL.40956	C	40QA	7.28Y	121.3	0.00	3.66	0.46	1	3	1	95	0.00	0.0	4.678	0.006	0	0	0	1
PL.40957	PD.6313	C	#2 ACSR	7.28Y	121.3	0.00	3.66	0.46	0	3	1	95	0.00	0.0	4.742	0.064	3	1	1	1
PL.40531	PL.40997	ABC	#1/0 ACSR	7.28Y	121.3	0.02	3.67	8.10	4	170	49	96	0.02	0.0	4.794	0.121	0	0	0	21
PL.40958	PL.40531	ABC	#1/0 ACSR	7.28Y	121.3	0.03	3.70	7.93	3	166	48	96	0.03	0.0	4.972	0.179	0	0	0	20
PL.40150	PL.40958	B	#4 ACSR	7.28Y	121.3	0.00	3.70	0.00	0	0	0	100	0.00	0.0	5.054	0.082	0	0	0	0
PL.40959	PL.40958	ABC	#1/0 ACSR	7.28Y	121.3	0.01	3.71	7.93	3	166	48	96	0.01	0.0	5.065	0.092	13	4	1	20
PL.40960	PL.40959	A	6 A (CWC)	7.27Y	121.2	0.05	3.77	12.72	9	89	26	96	0.04	0.0	5.157	0.092	0	0	0	13
PD.6392	PL.40960	A	35L	7.27Y	121.2	0.00	3.77	12.72	36	89	26	96	0.00	0.0	5.157	0.092	0	0	0	13
PL.40961	PD.6392	A	6 A (CWC)	7.27Y	121.2	0.00	3.77	12.72	9	89	26	96	0.00	0.0	5.163	0.006	0	0	0	13
PL.40461	PL.40961	A	6 A (CWC)	7.27Y	121.2	0.02	3.79	12.72	9	89	26	96	0.02	0.0	5.202	0.040	2	1	1	13

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40462	PL.40461	A	6 A (CWC)	7.27Y	121.2	0.03	3.83	12.46	9	87	25	96	0.02	0.0	5.261	0.059	1	0	1	12
PL.40463	PL.40462	A	6 A (CWC)	7.26Y	121.1	0.10	3.92	12.28	9	86	25	96	0.06	0.1	5.441	0.180	6	2	1	11
PL.40464	PL.40463	A	6 A (CWC)	7.26Y	121.0	0.04	3.96	11.41	8	80	23	96	0.02	0.0	5.524	0.083	14	4	1	10
PL.40465	PL.40464	A	6 A (CWC)	7.26Y	121.0	0.03	4.00	9.40	7	66	19	96	0.02	0.0	5.601	0.077	0	0	0	9
PL.40230	PL.40465	A	#4 ACSR	7.26Y	121.0	0.00	4.00	0.74	1	5	2	93	0.00	0.0	5.737	0.136	5	2	1	1
PL.60736	PL.40465	A	6 A (CWC)	7.26Y	121.0	0.05	4.04	8.66	6	60	18	96	0.02	0.0	5.719	0.118	0	0	1	8
PL.60737	PL.60736	A	6 A (CWC)	7.26Y	120.9	0.04	4.08	8.66	6	60	17	96	0.02	0.0	5.809	0.090	0	0	0	7
PL.40715	PL.60737	A	#4 ACSR	7.26Y	120.9	0.00	4.08	0.00	0	0	0	100	0.00	0.0	5.864	0.056	0	0	0	0
PL.40520	PL.60737	A	6 A (CWC)	7.25Y	120.8	0.11	4.19	8.66	6	60	17	96	0.05	0.1	6.094	0.286	6	2	1	7
PL.40743	PL.40520	A	#4 ACSR	7.25Y	120.8	0.00	4.19	0.85	1	6	2	95	0.00	0.0	6.127	0.033	6	2	1	1
PL.40526	PL.40520	A	#4 ACSR	7.25Y	120.8	0.01	4.19	2.92	2	20	6	96	0.00	0.0	6.157	0.063	11	3	1	2
PL.40527	PL.40526	A	#4 ACSR	7.25Y	120.8	0.00	4.20	1.37	1	10	3	96	0.00	0.0	6.195	0.037	0	0	0	1
PL.60734	PL.40527	A	#4 ACSR	7.25Y	120.8	0.00	4.20	1.37	1	10	3	96	0.00	0.0	6.229	0.034	10	3	1	1
PL.60733	PL.60734	A	#2 ACSR	7.25Y	120.8	0.00	4.20	0.00	0	0	0	100	0.00	0.0	6.335	0.106	0	0	0	0
PL.60735	PL.60734	A	#4 ACSR	7.25Y	120.8	0.00	4.20	0.00	0	0	0	100	0.00	0.0	6.448	0.220	0	0	0	0
PL.60732	PL.60734	A	#4 ACSR	7.25Y	120.8	0.00	4.20	0.00	0	0	0	100	0.00	0.0	6.250	0.022	0	0	0	0
PL.40521	PL.40520	A	#4 ACSR	7.25Y	120.8	0.01	4.19	3.96	3	28	8	96	0.00	0.0	6.123	0.028	0	0	0	3
PL.40522	PL.40521	A	#4 ACSR	7.25Y	120.8	0.01	4.20	3.96	3	28	8	96	0.00	0.0	6.174	0.051	14	4	1	3
PL.40226	PL.40522	A	#4 ACSR	7.25Y	120.8	0.00	4.20	0.00	0	0	0	100	0.00	0.0	6.211	0.037	0	0	0	0
PL.40523	PL.40522	A	#4 ACSR	7.25Y	120.8	0.00	4.20	1.95	2	14	4	96	0.00	0.0	6.195	0.021	0	0	0	2
PL.40524	PL.40523	A	#4 ACSR	7.25Y	120.8	0.00	4.20	1.95	2	14	4	96	0.00	0.0	6.254	0.059	10	3	1	2
PL.40525	PL.40524	A	#4 ACSR	7.25Y	120.8	0.00	4.20	0.55	0	4	1	97	0.00	0.0	6.291	0.037	4	1	1	1
PL.40327	PL.40959	C	6 A (CWC)	7.28Y	121.3	0.03	3.74	9.21	7	64	19	96	0.01	0.0	5.131	0.066	0	0	0	6
PL.40528	PL.40327	C	6 A (CWC)	7.28Y	121.3	0.00	3.74	9.21	7	64	19	96	0.00	0.0	5.137	0.006	0	0	0	6
PD.6393	PL.40528	C	35L	7.28Y	121.3	0.00	3.74	9.21	26	64	19	96	0.00	0.0	5.137	0.006	0	0	0	6
PL.40529	PD.6393	C	6 A (CWC)	7.27Y	121.2	0.01	3.75	9.21	7	64	19	96	0.00	0.0	5.158	0.022	0	0	0	6
PL.40530	PL.40529	C	6 A (CWC)	7.27Y	121.2	0.04	3.79	9.21	7	64	19	96	0.02	0.0	5.249	0.090	0	0	0	6
PL.40380	PL.40530	C	6 A (CWC)	7.27Y	121.2	0.06	3.85	4.97	4	35	10	96	0.01	0.0	5.496	0.247	0	0	0	3
PL.40691	PL.40380	C	6 A (CWC)	7.27Y	121.1	0.02	3.86	4.50	3	31	9	96	0.00	0.0	5.649	0.153	31	9	2	2
PL.40381	PL.40380	C	6 A (CWC)	7.27Y	121.1	0.00	3.85	0.47	0	3	1	95	0.00	0.0	5.652	0.156	0	0	0	1
PL.60747	PL.40381	C	6 A (CWC)	7.27Y	121.1	0.01	3.86	0.47	0	3	1	95	0.00	0.0	6.367	0.715	3	1	1	1

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40379	PL.40530	C	6 A (CWC)	7.27Y	121.2	0.00	3.79	4.24	3	30	9	96	0.00	0.0	5.270	0.021	5	1	1	3
PL.60662	PL.40379	C	6 A (CWC)	7.27Y	121.2	0.00	3.80	3.59	3	25	7	96	0.00	0.0	5.294	0.025	9	2	1	2
PL.60663	PL.60662	C	#1/0 ACSR	7.27Y	121.2	0.00	3.80	2.36	1	16	5	95	0.00	0.0	5.331	0.036	16	5	1	1
PL.40532	PL.40531	A	#4 ACSR	7.28Y	121.3	0.00	3.67	0.52	0	4	1	97	0.00	0.0	4.799	0.006	0	0	0	1
PD.6282	PL.40532	A	40QA	7.28Y	121.3	0.00	3.67	0.52	1	4	1	97	0.00	0.0	4.799	0.006	0	0	0	1
PL.41050	PD.6282	A	#4 ACSR	7.28Y	121.3	0.00	3.67	0.52	0	4	1	97	0.00	0.0	4.846	0.047	4	1	1	1
PL.40994	PL.40991	A	#4 ACSR	7.29Y	121.4	0.00	3.56	1.13	1	8	2	97	0.00	0.0	4.050	0.006	0	0	0	1
PD.6353	PL.40994	A	40QA	7.29Y	121.4	0.00	3.56	1.13	3	8	2	97	0.00	0.0	4.050	0.006	0	0	0	1
PL.40995	PD.6353	A	#4 ACSR	7.29Y	121.4	0.00	3.56	1.13	1	8	2	97	0.00	0.0	4.143	0.093	8	2	1	1
PL.40992	PL.40991	C	#4 ACSR	7.29Y	121.4	0.00	3.56	0.91	1	6	2	95	0.00	0.0	4.050	0.006	0	0	0	1
PD.6293	PL.40992	C	40QA	7.29Y	121.4	0.00	3.56	0.91	2	6	2	95	0.00	0.0	4.050	0.006	0	0	0	1
PL.40993	PD.6293	C	#4 ACSR	7.29Y	121.4	0.00	3.56	0.91	1	6	2	95	0.00	0.0	4.094	0.044	6	2	1	1
PL.41264	PL.41263	C	#4 ACSR	7.29Y	121.5	0.00	3.52	3.35	3	23	7	96	0.00	0.0	3.839	0.006	0	0	0	4
PD.6291	PL.41264	C	40QA	7.29Y	121.5	0.00	3.52	3.35	8	23	7	96	0.00	0.0	3.839	0.006	0	0	0	4
PL.41266	PD.6291	C	#4 ACSR	7.29Y	121.4	0.05	3.57	3.35	3	23	7	96	0.01	0.0	4.160	0.321	0	0	0	4
PL.41267	PL.41266	C	#4 ACSR	7.29Y	121.4	0.01	3.58	1.72	1	12	3	97	0.00	0.0	4.282	0.122	0	0	0	3
PL.41268	PL.41267	C	#4 ACSR	7.28Y	121.4	0.01	3.59	1.52	1	11	3	96	0.00	0.0	4.392	0.110	0	0	1	2
PL.41269	PL.41268	C	#4 ACSR	7.28Y	121.4	0.00	3.59	1.52	1	11	3	96	0.00	0.0	4.476	0.084	11	3	1	1
PL.40328	PL.41267	C	6 A (CWC)	7.29Y	121.4	0.00	3.58	0.20	0	1	0	100	0.00	0.0	4.356	0.073	1	0	1	1
PL.40411	PL.41266	C	#2 ACSR	7.29Y	121.4	0.00	3.57	1.63	1	11	3	96	0.00	0.0	4.220	0.060	11	3	1	1
PL.41259	PL.41257	A	#4 ACSR	7.29Y	121.5	0.00	3.46	1.80	1	13	4	96	0.00	0.0	3.586	0.006	0	0	0	1
PD.6292	PL.41259	A	40QA	7.29Y	121.5	0.00	3.46	1.80	4	13	4	96	0.00	0.0	3.586	0.006	0	0	0	1
PL.41260	PD.6292	A	#4 ACSR	7.29Y	121.5	0.00	3.46	1.80	1	13	4	96	0.00	0.0	3.597	0.011	0	0	0	1
PL.41261	PL.41260	A	#4 ACSR	7.29Y	121.5	0.00	3.46	1.80	1	13	4	96	0.00	0.0	3.695	0.098	13	4	1	1
PL.41206	PL.60744	C	6 A (CWC)	7.30Y	121.6	0.01	3.36	28.95	21	203	59	96	0.01	0.0	3.238	0.006	0	0	0	26
PD.6382	PL.41206	C	50L	7.30Y	121.6	0.00	3.36	28.95	58	203	59	96	0.00	0.0	3.238	0.006	0	0	0	26
PL.41207	PD.6382	C	6 A (CWC)	7.29Y	121.6	0.07	3.44	28.95	21	203	59	96	0.11	0.1	3.296	0.058	11	3	2	26
PL.41208	PL.41207	C	6 A (CWC)	7.29Y	121.4	0.12	3.55	27.43	20	192	56	96	0.17	0.1	3.389	0.094	6	2	1	24
PL.41230	PL.41208	C	6 A (CWC)	7.28Y	121.4	0.09	3.65	26.58	19	186	54	96	0.13	0.1	3.466	0.077	0	0	0	23
PL.41233	PL.41230	C	6 A (CWC)	7.28Y	121.3	0.10	3.74	16.82	12	118	34	96	0.09	0.1	3.591	0.125	0	0	0	17
PL.63777	PL.41233	C	6 A (CWC)	7.28Y	121.3	0.00	3.75	1.39	1	10	3	96	0.00	0.0	3.695	0.103	10	3	4	4

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.41234	PL.41233	C	6 A (CWC)	7.27Y	121.2	0.03	3.77	15.43	11	108	31	96	0.02	0.0	3.628	0.036	0	0	0	13
PL.41235	PL.41234	C	6 A (CWC)	7.26Y	121.0	0.22	3.99	15.43	11	108	31	96	0.17	0.2	3.972	0.345	20	6	2	13
PL.41236	PL.41235	C	6 A (CWC)	7.26Y	120.9	0.08	4.07	12.57	9	88	25	96	0.05	0.1	4.105	0.133	0	0	0	11
PL.41237	PL.41236	C	6 A (CWC)	7.25Y	120.9	0.06	4.13	12.57	9	88	25	96	0.04	0.0	4.219	0.114	15	4	1	11
PL.41238	PL.41237	C	6 A (CWC)	7.25Y	120.8	0.03	4.16	10.45	7	73	21	96	0.02	0.0	4.281	0.062	0	0	0	10
PL.41239	PL.41238	C	#1/0 ACSR	7.25Y	120.8	0.00	4.16	1.23	1	9	2	98	0.00	0.0	4.373	0.092	0	0	0	2
PL.59244	PL.41239	C	#1/0 ACSR	7.25Y	120.8	0.00	4.16	1.23	1	9	2	98	0.00	0.0	4.484	0.110	9	2	2	2
PL.41240	PL.41238	C	6 A (CWC)	7.25Y	120.8	0.02	4.18	9.22	7	64	19	96	0.01	0.0	4.346	0.065	14	4	1	8
PL.41241	PL.41240	C	6 A (CWC)	7.25Y	120.8	0.05	4.23	7.21	5	50	15	96	0.02	0.0	4.516	0.171	4	1	2	7
PL.41242	PL.41241	C	#4 ACSR	7.25Y	120.8	0.01	4.25	3.15	2	22	6	96	0.00	0.0	4.614	0.097	6	2	1	3
PL.41243	PL.41242	C	#4 ACSR	7.24Y	120.7	0.02	4.26	2.35	2	16	5	95	0.00	0.0	4.780	0.166	0	0	0	2
PL.41244	PL.41243	C	#4 ACSR	7.24Y	120.7	0.00	4.27	2.35	2	16	5	95	0.00	0.0	4.823	0.043	5	2	1	2
PL.41245	PL.41244	C	#4 ACSR	7.24Y	120.7	0.00	4.27	1.57	1	11	3	96	0.00	0.0	4.869	0.046	11	3	1	1
PL.41246	PL.41241	C	6 A (CWC)	7.24Y	120.7	0.02	4.26	3.46	2	24	7	96	0.00	0.0	4.658	0.142	0	0	0	2
PL.41247	PL.41246	C	6 A (CWC)	7.24Y	120.7	0.04	4.30	3.46	2	24	7	96	0.01	0.0	4.907	0.248	0	0	0	2
PL.41248	PL.41247	C	6 A (CWC)	7.24Y	120.7	0.00	4.30	3.46	2	24	7	96	0.00	0.0	4.954	0.047	24	7	2	2
PL.41249	PL.41248	C	6 A (CWC)	7.24Y	120.7	0.00	4.30	0.00	0	0	0	100	0.00	0.0	5.015	0.061	0	0	0	0
PL.41250	PL.41246	C	6 A (CWC)	7.24Y	120.7	0.00	4.26	0.00	0	0	0	100	0.00	0.0	4.865	0.207	0	0	0	0
PL.41251	PL.41250	C	6 A (CWC)	7.24Y	120.7	0.00	4.26	0.00	0	0	0	100	0.00	0.0	5.053	0.188	0	0	0	0
PL.57692	PL.41230	C	#4 ACSR	7.28Y	121.3	0.01	3.66	5.42	4	38	11	96	0.00	0.0	3.527	0.061	0	0	0	3
PL.57693	PL.57692	C	#4 ACSR	7.28Y	121.3	0.01	3.67	4.00	3	28	8	96	0.00	0.0	3.607	0.080	0	0	0	2
PL.40755	PL.57693	C	#2 ACSR	7.28Y	121.3	0.00	3.68	2.13	1	15	4	97	0.00	0.0	3.641	0.034	15	4	1	1
PL.41231	PL.57693	C	#4 ACSR	7.28Y	121.3	0.01	3.68	1.87	1	13	4	96	0.00	0.0	3.670	0.063	0	0	0	1
PL.41232	PL.41231	C	#4 ACSR	7.28Y	121.3	0.00	3.68	1.87	1	13	4	96	0.00	0.0	3.723	0.053	13	4	1	1
PL.57695	PL.57692	C	#1/0 ACSR	7.28Y	121.3	0.00	3.66	1.41	1	10	3	96	0.00	0.0	3.575	0.048	10	3	1	1
PL.57694	PL.57695	C	#1/0 ACSR	7.28Y	121.3	0.00	3.66	0.00	0	0	0	100	0.00	0.0	3.616	0.040	0	0	0	0
PL.40770	PL.41230	C	#4 ACSR	7.28Y	121.3	0.02	3.67	4.35	3	30	9	96	0.00	0.0	3.623	0.157	14	4	2	3
PL.61991	PL.40770	C	#1/0 ACSR	7.28Y	121.3	0.00	3.67	2.40	1	17	5	96	0.00	0.0	3.674	0.050	17	5	1	1
PL.63386	PL.41205	B	1/0 AL URD	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	3.136	0.067	0	0	1	1
PL.41202	PL.40519	A	#2 ACSR	7.31Y	121.8	0.00	3.18	1.62	1	11	3	96	0.00	0.0	2.905	0.006	0	0	0	2
PD.6300	PL.41202	A	40QA	7.31Y	121.8	0.00	3.18	1.62	4	11	3	96	0.00	0.0	2.905	0.006	0	0	0	2

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.41203	PD.6300	A	#2 ACSR	7.31Y	121.8	0.00	3.18	1.62	1	11	3	96	0.00	0.0	2.923	0.018	11	3	2	2
PL.40513	PL.40518	A	6 A (CWC)	7.31Y	121.9	0.00	3.14	0.46	0	3	1	95	0.00	0.0	2.831	0.008	0	0	0	1
PD.6332	PL.40513	A	40QA	7.31Y	121.9	0.00	3.14	0.46	1	3	1	95	0.00	0.0	2.831	0.008	0	0	0	1
PL.40514	PD.6332	A	6 A (CWC)	7.31Y	121.9	0.00	3.14	0.46	0	3	1	95	0.00	0.0	2.872	0.041	3	1	1	1
PL.41199	PL.41198	A	6 A (CWC)	7.32Y	122.0	0.00	2.99	3.74	3	26	8	96	0.00	0.0	2.574	0.006	0	0	0	4
PD.6359	PL.41199	A	40QA	7.32Y	122.0	0.00	2.99	3.74	9	26	8	96	0.00	0.0	2.574	0.006	0	0	0	4
PL.41200	PD.6359	A	6 A (CWC)	7.32Y	122.0	0.01	3.01	3.74	3	26	8	96	0.00	0.0	2.645	0.071	0	0	0	4
PL.41201	PL.41200	A	6 A (CWC)	7.32Y	122.0	0.00	3.01	3.74	3	26	8	96	0.00	0.0	2.689	0.044	19	5	2	4
PL.40962	PL.41201	A	6 A (CWC)	7.32Y	122.0	0.01	3.02	1.11	1	8	2	97	0.00	0.0	2.803	0.114	1	0	1	2
PL.40823	PL.40962	A	6 A (CWC)	7.32Y	122.0	0.00	3.02	1.03	1	7	2	96	0.00	0.0	2.877	0.074	7	2	1	1
PL.62192	PL.62190	C	#1/0 ACSR	7.35Y	122.5	0.00	2.55	18.69	8	132	38	96	0.00	0.0	1.869	0.008	0	0	0	20
PL.62208	PL.62192	C	#4 ACSR	7.35Y	122.4	0.00	2.55	18.69	14	132	38	96	0.00	0.0	1.872	0.003	0	0	0	20
PD.9288	PL.62208	C	50L	7.35Y	122.4	0.00	2.55	18.69	37	132	38	96	0.00	0.0	1.872	0.003	0	0	0	20
PL.62207	PD.9288	C	#4 ACSR	7.34Y	122.3	0.19	2.74	18.69	14	132	38	96	0.18	0.1	2.110	0.237	12	3	1	20
PL.62204	PL.62207	C	6 A (CWC)	7.33Y	122.2	0.07	2.81	17.02	12	120	35	96	0.06	0.1	2.201	0.092	10	3	1	19
PL.62206	PL.62204	C	6 A (CWC)	7.33Y	122.1	0.06	2.87	14.24	10	100	29	96	0.04	0.0	2.290	0.089	8	2	1	14
PL.41186	PL.62206	C	6 A (CWC)	7.33Y	122.1	0.04	2.90	13.15	9	93	27	96	0.02	0.0	2.349	0.059	0	0	0	13
PL.41185	PL.41186	C	6 A (CWC)	7.32Y	122.0	0.05	2.96	13.15	9	93	27	96	0.04	0.0	2.439	0.090	0	0	0	13
PL.41184	PL.41185	C	6 A (CWC)	7.32Y	122.0	0.02	2.98	13.15	9	93	27	96	0.01	0.0	2.474	0.035	0	0	0	13
PL.41183	PL.41184	C	6 A (CWC)	7.32Y	122.0	0.02	3.00	13.15	9	92	27	96	0.02	0.0	2.510	0.036	0	0	0	13
PL.41187	PL.41183	C	6 A (CWC)	7.32Y	122.0	0.03	3.03	13.15	9	92	27	96	0.02	0.0	2.571	0.061	19	5	2	13
PL.41188	PL.41187	C	6 A (CWC)	7.32Y	121.9	0.04	3.07	10.51	8	74	21	96	0.02	0.0	2.645	0.074	0	0	0	11
PL.41189	PL.41188	C	6 A (CWC)	7.31Y	121.9	0.03	3.10	10.51	8	74	21	96	0.02	0.0	2.708	0.062	7	2	1	11
PL.41190	PL.41189	C	6 A (CWC)	7.31Y	121.9	0.02	3.12	6.51	5	46	13	96	0.01	0.0	2.774	0.067	3	1	1	6
PL.41191	PL.41190	C	6 A (CWC)	7.31Y	121.9	0.02	3.13	6.11	4	43	12	96	0.00	0.0	2.841	0.066	15	4	2	5
PL.41192	PL.41191	C	6 A (CWC)	7.31Y	121.9	0.01	3.14	3.93	3	28	8	96	0.00	0.0	2.906	0.065	0	0	0	3
PL.60707	PL.41192	C	6 A (CWC)	7.31Y	121.8	0.01	3.15	3.93	3	28	8	96	0.00	0.0	2.982	0.076	15	4	2	3
PL.60708	PL.60707	C	6 A (CWC)	7.31Y	121.8	0.00	3.16	1.78	1	13	4	96	0.00	0.0	3.010	0.028	0	0	0	1
PL.60709	PL.60708	C	6 A (CWC)	7.31Y	121.8	0.00	3.16	1.78	1	13	4	96	0.00	0.0	3.066	0.056	13	4	1	1
PL.41193	PL.41189	C	6 A (CWC)	7.31Y	121.9	0.01	3.10	2.97	2	21	6	96	0.00	0.0	2.751	0.043	0	0	0	4
PL.41196	PL.41193	C	6 A (CWC)	7.31Y	121.9	0.00	3.10	0.40	0	3	1	95	0.00	0.0	2.837	0.086	0	0	0	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40706	PL.41196	C	6 A (CWC)	7.31Y	121.9	0.00	3.10	0.40	0	3	1	95	0.00	0.0	2.904	0.067	3	1	1	1
PL.41197	PL.41196	C	6 A (CWC)	7.31Y	121.9	0.00	3.10	0.00	0	0	0	100	0.00	0.0	2.969	0.132	0	0	0	0
PL.40149	PL.41197	C	6 A (CWC)	7.31Y	121.9	0.00	3.10	0.00	0	0	0	100	0.00	0.0	3.022	0.052	0	0	0	0
PL.41194	PL.41193	C	6 A (CWC)	7.31Y	121.9	0.00	3.11	2.58	2	18	5	96	0.00	0.0	2.782	0.031	5	1	1	3
PL.41195	PL.41194	C	6 A (CWC)	7.31Y	121.9	0.00	3.11	1.92	1	13	4	96	0.00	0.0	2.811	0.029	13	4	2	2
PL.62205	PL.62204	C	6 A (CWC)	7.33Y	122.2	0.00	2.81	1.40	1	10	3	96	0.00	0.0	2.266	0.065	10	3	4	4
PL.40436	PL.40432	C	#1/0 ACSR	7.38Y	123.0	0.00	2.03	1.97	1	14	4	96	0.00	0.0	1.494	0.006	0	0	0	1
PD.6345	PL.40436	C	40QA	7.38Y	123.0	0.00	2.03	1.97	5	14	4	96	0.00	0.0	1.494	0.006	0	0	0	1
PL.40948	PD.6345	C	#1/0 ACSR	7.38Y	123.0	0.00	2.03	1.97	1	14	4	96	0.00	0.0	1.530	0.036	14	4	1	1
PL.40434	PL.40431	A	#1/0 ACSR	7.38Y	123.1	0.00	1.92	1.42	1	10	3	96	0.00	0.0	1.413	0.006	0	0	0	1
PD.6352	PL.40434	A	40QA	7.38Y	123.1	0.00	1.92	1.42	4	10	3	96	0.00	0.0	1.413	0.006	0	0	0	1
PL.40435	PD.6352	A	#1/0 ACSR	7.38Y	123.1	0.00	1.92	1.42	1	10	3	96	0.00	0.0	1.429	0.016	10	3	1	1
PL.40028	PL.40032	A	#4 ACSR	7.41Y	123.5	0.00	1.51	1.24	1	9	3	95	0.00	0.0	1.101	0.006	0	0	0	1
PD.6284	PL.40028	A	20QA	7.41Y	123.5	0.00	1.51	1.24	6	9	3	95	0.00	0.0	1.101	0.006	0	0	0	1
PL.40029	PD.6284	A	#4 ACSR	7.41Y	123.5	0.00	1.51	1.24	1	9	3	95	0.00	0.0	1.186	0.084	9	3	1	1
CP.76	PL.52519	ABC	Cap (300)	7.44Y	124.0	0.00	0.97	0.00	0	0	0	100	0.00	0.0	0.694	0.084	0	0	0	0
PL.40943	PL.40942	C	#1/0 ACSR	7.45Y	124.2	0.00	0.77	2.84	1	20	6	96	0.00	0.0	0.548	0.006	0	0	0	2
PD.6285	PL.40943	C	20QA	7.45Y	124.2	0.00	0.77	2.84	14	20	6	96	0.00	0.0	0.548	0.006	0	0	0	2
PL.40944	PD.6285	C	#1/0 ACSR	7.45Y	124.2	0.00	0.77	2.84	1	20	6	96	0.00	0.0	0.579	0.031	20	6	2	2
PL.64560	PL.64558	A	#1/0 ACSR	7.48Y	124.7	0.00	0.26	0.00	0	0	0	100	0.00	0.0	0.254	0.069	0	0	0	0
PL.52880	Eberle	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	160.47	31	3412	1180	95	0.20	0.0	0.009	0.009	0	0	0	427
PL.52881	PL.52880	ABC	336 MCM AC	7.50Y	125.0	0.03	0.04	160.47	31	3412	1179	95	0.44	0.0	0.029	0.020	0	0	0	427
---------- Feeder No. 1 (Letterbox F1) Beginning with Device PD.7984 ----------																				
PD.7984	PL.52881	ABC	480VWE	7.50Y	125.0	0.00	0.04	160.47	0	3412	1178	95	0.00	0.0	0.029	0.020	0	0	0	427
PL.39675	PD.7984	ABC	336 MCM AC	7.49Y	124.9	0.05	0.09	160.47	31	3412	1178	95	0.85	0.0	0.069	0.039	0	0	0	427
PL.39677	PL.39675	ABC	336 MCM AC	7.49Y	124.8	0.10	0.19	159.90	31	3399	1173	95	1.67	0.0	0.146	0.078	11	3	1	426
PL.39678	PL.39677	ABC	336 MCM AC	7.48Y	124.7	0.08	0.26	159.40	31	3386	1166	95	1.30	0.0	0.207	0.061	0	0	0	425
PL.52200	PL.39678	ABC	336 MCM AC	7.48Y	124.6	0.13	0.39	159.40	31	3385	1163	95	2.13	0.1	0.307	0.100	0	0	0	425
PL.57521	PL.52200	A	#2 ACSR	7.48Y	124.6	0.00	0.39	1.86	1	13	4	96	0.00	0.0	0.307	0.000	0	0	0	4

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.8374	PL.57521	A	40QA	7.48Y	124.6	0.00	0.39	1.86	5	13	4	96	0.00	0.0	0.307	0.000	0	0	0	4
PL.57522	PD.8374	A	#2 ACSR	7.48Y	124.6	0.00	0.39	1.86	1	13	4	96	0.00	0.0	0.308	0.001	0	0	0	4
PL.57525	PL.57522	A	#2 ACSR	7.48Y	124.6	0.00	0.39	1.25	1	9	3	95	0.00	0.0	0.360	0.053	0	0	0	3
PL.63382	PL.57525	A	#1/0 ACSR	7.48Y	124.6	0.00	0.39	0.44	0	3	1	95	0.00	0.0	0.380	0.020	3	1	1	1
PL.57524	PL.57525	A	#2 ACSR	7.48Y	124.6	0.00	0.39	0.81	0	6	2	95	0.00	0.0	0.434	0.073	0	0	0	2
PL.40368	PL.57524	A	#2 ACSR	7.48Y	124.6	0.00	0.40	0.81	0	6	2	95	0.00	0.0	0.496	0.062	6	2	2	2
PL.57523	PL.57522	A	#1/0 ACSR	7.48Y	124.6	0.00	0.39	0.61	0	4	1	97	0.00	0.0	0.339	0.031	4	1	1	1
PL.52201	PL.52200	ABC	336 MCM AC	7.45Y	124.2	0.44	0.83	158.78	31	3369	1154	95	7.43	0.2	0.657	0.350	0	0	0	421
PL.52202	PL.52201	ABC	336 MCM AC	7.44Y	124.1	0.12	0.95	158.78	31	3362	1136	95	1.95	0.1	0.749	0.092	0	0	0	421
PL.52203	PL.52202	ABC	336 MCM AC	7.44Y	124.0	0.05	1.00	158.78	31	3360	1132	95	0.86	0.0	0.789	0.040	0	0	0	421
PL.40369	PL.52203	C	#2 ACSR	7.44Y	124.0	0.00	1.00	1.57	1	11	3	96	0.00	0.0	0.795	0.006	0	0	0	1
PD.6320	PL.40369	C	40QA	7.44Y	124.0	0.00	1.00	1.57	4	11	3	96	0.00	0.0	0.795	0.006	0	0	0	1
PL.40395	PD.6320	C	#2 ACSR	7.44Y	124.0	0.00	1.00	1.57	1	11	3	96	0.00	0.0	0.837	0.042	0	0	0	1
PL.63076	PL.40395	C	#1/0 ACSR	7.44Y	124.0	0.00	1.00	1.57	1	11	3	96	0.00	0.0	0.869	0.032	11	3	1	1
PL.59238	PL.52203	ABC	336 MCM AC	7.44Y	123.9	0.08	1.08	158.25	30	3348	1127	95	1.28	0.0	0.850	0.061	12	4	3	420
PL.59241	PL.59238	ABC	336 MCM AC	7.43Y	123.8	0.13	1.20	157.24	30	3325	1117	95	2.11	0.1	0.951	0.102	8	2	1	416
PL.59242	PL.59241	ABC	336 MCM AC	7.42Y	123.7	0.10	1.31	156.88	30	3315	1110	95	1.75	0.1	1.036	0.085	12	4	1	415
PL.59239	PL.59242	ABC	336 MCM AC	7.41Y	123.5	0.22	1.53	156.32	30	3301	1103	95	3.75	0.1	1.218	0.182	0	0	0	414
PL.40271	PL.59239	C	6 A (CWC)	7.41Y	123.5	0.00	1.53	2.52	2	18	5	96	0.00	0.0	1.224	0.006	0	0	0	3
PD.6361	PL.40271	C	40QA	7.41Y	123.5	0.00	1.53	2.52	6	18	5	96	0.00	0.0	1.224	0.006	0	0	0	3
PL.40270	PD.6361	C	6 A (CWC)	7.41Y	123.5	0.00	1.54	2.52	2	18	5	96	0.00	0.0	1.265	0.041	11	3	2	3
PL.39032	PL.40270	C	6 A (CWC)	7.41Y	123.5	0.00	1.54	0.94	1	7	2	96	0.00	0.0	1.310	0.045	0	0	0	1
PL.53136	PL.39032	C	6 A (CWC)	7.41Y	123.5	0.00	1.54	0.94	1	7	2	96	0.00	0.0	1.466	0.157	7	2	1	1
PL.39033	PL.59239	ABC	336 MCM AC	7.40Y	123.3	0.17	1.70	155.48	30	3279	1089	95	2.84	0.1	1.358	0.140	0	0	0	411
PL.38292	PL.39033	ABC	336 MCM AC	7.39Y	123.2	0.09	1.79	155.48	30	3277	1082	95	1.45	0.0	1.429	0.071	0	0	0	411
PL.39124	PL.38292	ABC	336 MCM AC	7.39Y	123.1	0.07	1.86	154.89	30	3263	1075	95	1.17	0.0	1.487	0.058	0	0	0	410
PL.53128	PL.39124	ABC	336 MCM AC	7.39Y	123.1	0.05	1.91	154.89	30	3262	1072	95	0.79	0.0	1.526	0.039	0	0	0	410
PL.53129	PL.53128	ABC	336 MCM AC	7.38Y	123.0	0.07	1.98	154.89	30	3261	1070	95	1.16	0.0	1.583	0.057	0	0	1	410
PL.53125	PL.53129	A	6 A (CWC)	7.38Y	123.0	0.00	1.98	7.33	5	52	15	96	0.00	0.0	1.589	0.006	0	0	0	6
PD.6369	PL.53125	A	40QA	7.38Y	123.0	0.00	1.98	7.33	18	52	15	96	0.00	0.0	1.589	0.006	0	0	0	6
PL.40273	PD.6369	A	6 A (CWC)	7.37Y	122.9	0.11	2.08	7.33	5	52	15	96	0.04	0.1	1.902	0.313	0	0	0	6

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40579	PL.40273	A	6 A (CWC)	7.37Y	122.9	0.01	2.09	1.48	1	10	3	96	0.00	0.0	2.053	0.151	10	3	1	1
PL.40274	PL.40273	A	6 A (CWC)	7.37Y	122.9	0.02	2.10	5.85	4	41	12	96	0.01	0.0	1.966	0.064	3	1	1	5
PL.40275	PL.40274	A	6 A (CWC)	7.37Y	122.9	0.01	2.11	5.45	4	39	11	96	0.00	0.0	2.014	0.048	17	5	2	4
PL.40276	PL.40275	A	6 A (CWC)	7.37Y	122.9	0.01	2.12	3.01	2	21	6	96	0.00	0.0	2.068	0.053	0	0	0	2
PL.40560	PL.40276	A	#4 ACSR	7.37Y	122.9	0.00	2.12	1.33	1	9	3	95	0.00	0.0	2.133	0.065	9	3	1	1
PL.40277	PL.40276	A	6 A (CWC)	7.37Y	122.9	0.00	2.12	1.68	1	12	3	97	0.00	0.0	2.176	0.109	12	3	1	1
PL.53127	PL.53129	ABC	336 MCM AC	7.37Y	122.8	0.20	2.18	150.48	29	3166	1040	95	3.29	0.1	1.755	0.172	0	0	0	393
PL.40278	PL.53127	ABC	336 MCM AC	7.36Y	122.7	0.10	2.28	150.12	29	3155	1031	95	1.64	0.1	1.842	0.087	17	5	1	391
PL.40281	PL.40278	A	#1/0 ACSR	7.36Y	122.7	0.00	2.28	1.10	0	8	2	97	0.00	0.0	1.848	0.006	0	0	0	1
PD.6333	PL.40281	A	40QA	7.36Y	122.7	0.00	2.28	1.10	3	8	2	97	0.00	0.0	1.848	0.006	0	0	0	1
PL.40282	PD.6333	A	#1/0 ACSR	7.36Y	122.7	0.00	2.28	1.10	0	8	2	97	0.00	0.0	1.886	0.038	8	2	1	1
PL.63359	PL.40278	ABC	336 MCM AC	7.36Y	122.7	0.05	2.33	148.95	29	3128	1020	95	0.80	0.0	1.885	0.043	0	0	0	389
PL.63360	PL.63359	ABC	336 MCM AC	7.36Y	122.6	0.09	2.42	148.34	29	3114	1014	95	1.36	0.0	1.958	0.073	0	0	0	388
PL.40604	PL.63360	ABC	336 MCM AC	7.35Y	122.4	0.16	2.57	148.34	29	3113	1011	95	2.53	0.1	2.094	0.136	0	0	0	388
PL.40632	PL.40604	ABC	336 MCM AC	7.34Y	122.3	0.13	2.70	148.34	29	3111	1005	95	2.06	0.1	2.206	0.111	0	0	0	388
PL.60835	PL.40632	A	#1/0 ACSR	7.34Y	122.3	0.00	2.70	1.37	1	10	3	96	0.00	0.0	2.238	0.032	10	3	1	1
PL.40635	PL.40632	ABC	336 MCM AC	7.33Y	122.1	0.16	2.86	146.44	28	3068	988	95	2.47	0.1	2.343	0.137	0	0	0	385
PL.40636	PL.40635	ABC	336 MCM AC	7.32Y	122.1	0.08	2.94	146.44	28	3066	983	95	1.19	0.0	2.408	0.066	0	0	0	385
PL.40637	PL.40636	ABC	336 MCM AC	7.32Y	122.0	0.05	2.99	146.44	28	3065	980	95	0.82	0.0	2.454	0.045	23	7	2	385
PL.40182	PL.40637	ABC	336 MCM AC	7.32Y	121.9	0.08	3.07	145.36	28	3041	971	95	1.28	0.0	2.526	0.072	19	5	2	383
PL.40183	PL.40182	ABC	336 MCM AC	7.31Y	121.9	0.08	3.15	144.47	28	3021	963	95	1.27	0.0	2.598	0.072	0	0	0	381
PL.40824	PL.40183	ABC	336 MCM AC	7.31Y	121.8	0.04	3.19	144.47	28	3020	960	95	0.63	0.0	2.634	0.036	0	0	0	381
PL.40184	PL.40824	ABC	336 MCM AC	7.31Y	121.8	0.05	3.23	144.47	28	3019	959	95	0.71	0.0	2.675	0.041	10	3	1	381
PL.40185	PL.40184	ABC	336 MCM AC	7.30Y	121.7	0.07	3.30	144.00	28	3008	954	95	1.02	0.0	2.733	0.059	11	3	2	380
PL.52204	PL.40185	ABC	336 MCM AC	7.29Y	121.5	0.19	3.49	143.48	28	2996	948	95	3.00	0.1	2.907	0.173	0	0	0	378
PL.52207	PL.52204	ABC	336 MCM AC	7.29Y	121.4	0.09	3.58	143.48	28	2993	941	95	1.33	0.0	2.983	0.077	0	0	0	378
PL.52236	PL.52207	ABC	336 MCM AC	7.28Y	121.3	0.12	3.70	143.22	28	2987	937	95	1.86	0.1	3.091	0.107	0	0	0	377
PL.52237	PL.52236	ABC	336 MCM AC	7.27Y	121.2	0.08	3.78	143.22	28	2985	932	95	1.30	0.0	3.166	0.075	0	0	0	377
PL.52206	PL.52237	ABC	336 MCM AC	7.27Y	121.2	0.07	3.85	142.59	27	2970	926	95	1.08	0.0	3.229	0.063	0	0	0	376
PL.52805	PL.52206	ABC	336 MCM AC	7.27Y	121.1	0.04	3.89	142.59	27	2969	923	95	0.60	0.0	3.264	0.035	0	0	0	376
PL.52807	PL.52805	ABC	336 MCM AC	7.26Y	120.9	0.19	4.08	135.96	26	2830	881	95	2.82	0.1	3.445	0.181	0	0	0	352

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.39659	PL.52807	ABC	336 MCM AC	7.25Y	120.9	0.04	4.12	135.96	26	2827	875	96	0.58	0.0	3.483	0.037	0	0	0	352
PL.56531	PL.39659	A	#2 ACSR	7.25Y	120.9	0.00	4.12	2.44	1	17	5	96	0.00	0.0	3.521	0.038	17	5	3	3
PL.40003	PL.39659	ABC	336 MCM AC	7.25Y	120.8	0.07	4.18	135.15	26	2810	868	96	1.00	0.0	3.548	0.065	0	0	0	349
PL.59204	PL.40003	ABC	336 MCM AC	7.25Y	120.8	0.03	4.21	135.15	26	2809	866	96	0.44	0.0	3.576	0.029	2	1	1	349
PL.59205	PL.59204	ABC	336 MCM AC	7.25Y	120.8	0.03	4.24	135.05	26	2806	864	96	0.39	0.0	3.602	0.026	0	0	0	348
PL.59207	PL.59205	C	#1/0 ACSR	7.24Y	120.7	0.04	4.28	49.69	22	345	102	96	0.08	0.0	3.633	0.031	21	6	3	45
PL.60669	PL.59207	C	6 A (CWC)	7.24Y	120.6	0.13	4.41	46.66	33	324	95	96	0.33	0.1	3.696	0.062	0	0	0	42
PL.60672	PL.60669	C	#1/0 ACSR	7.24Y	120.6	0.00	4.41	1.38	1	10	3	96	0.00	0.0	3.727	0.031	10	3	1	1
PL.60670	PL.60669	C	6 A (CWC)	7.23Y	120.6	0.02	4.43	45.27	32	314	92	96	0.06	0.0	3.707	0.011	0	0	0	41
PL.60671	PL.60670	C	6 A (CWC)	7.23Y	120.6	0.01	4.45	45.27	32	314	92	96	0.03	0.0	3.713	0.006	0	0	0	41
PD.6379	PL.60671	C	70L	7.23Y	120.6	0.00	4.45	45.27	65	314	92	96	0.00	0.0	3.713	0.006	0	0	0	41
PL.40004	PD.6379	C	6 A (CWC)	7.22Y	120.4	0.19	4.63	45.27	32	314	92	96	0.43	0.1	3.806	0.093	25	7	3	41
PL.63385	PL.40004	C	#1/0 ACSR	7.22Y	120.4	0.00	4.63	0.00	0	0	0	100	0.00	0.0	3.853	0.047	0	0	0	0
PL.40005	PL.40004	C	6 A (CWC)	7.21Y	120.2	0.21	4.84	41.67	30	289	85	96	0.46	0.2	3.914	0.109	0	0	0	38
PL.40158	PL.40005	C	6 A (CWC)	7.20Y	120.0	0.19	5.03	41.67	30	288	85	96	0.41	0.1	4.012	0.098	0	0	0	38
PL.40159	PL.40158	C	6 A (CWC)	7.19Y	119.8	0.20	5.22	41.67	30	288	84	96	0.43	0.2	4.115	0.103	0	0	0	38
PL.40303	PL.40159	C	6 A (CWC)	7.19Y	119.8	0.00	5.23	1.72	1	12	3	97	0.00	0.0	4.174	0.059	12	3	1	1
PL.40160	PL.40159	C	6 A (CWC)	7.18Y	119.6	0.15	5.37	39.95	29	276	81	96	0.31	0.1	4.195	0.080	0	0	0	37
PL.40721	PL.40160	C	#4 ACSR	7.18Y	119.6	0.00	5.37	0.00	0	0	0	100	0.00	0.0	4.255	0.060	0	0	0	0
PL.40161	PL.40160	C	6 A (CWC)	7.17Y	119.5	0.13	5.50	39.95	29	275	80	96	0.28	0.1	4.266	0.071	0	0	0	37
PL.40693	PL.40161	C	#4 ACSR	7.17Y	119.5	0.00	5.50	0.54	0	4	1	97	0.00	0.0	4.307	0.041	4	1	1	1
PL.40162	PL.40161	C	6 A (CWC)	7.16Y	119.3	0.21	5.71	39.41	28	271	79	96	0.42	0.2	4.382	0.116	12	3	1	36
PL.59202	PL.40162	C	6 A (CWC)	7.15Y	119.1	0.16	5.87	36.40	26	250	73	96	0.30	0.1	4.479	0.097	10	3	1	33
PL.59203	PL.59202	C	6 A (CWC)	7.13Y	118.8	0.34	6.21	34.97	25	240	70	96	0.63	0.3	4.691	0.211	0	0	0	32
PL.40643	PL.59203	C	6 A (CWC)	7.12Y	118.6	0.21	6.42	25.28	18	173	50	96	0.28	0.2	4.877	0.186	10	3	3	26
PL.40645	PL.40643	C	#4 ACSR	7.11Y	118.6	0.01	6.42	3.84	3	26	8	96	0.00	0.0	4.933	0.056	11	3	2	3
PL.40646	PL.40645	C	#4 ACSR	7.11Y	118.6	0.00	6.42	2.20	2	15	4	97	0.00	0.0	4.966	0.032	15	4	1	1
PL.40644	PL.40643	C	6 A (CWC)	7.11Y	118.5	0.08	6.50	19.97	14	136	40	96	0.09	0.1	4.965	0.088	0	0	0	20
PL.40647	PL.40644	C	6 A (CWC)	7.11Y	118.5	0.04	6.53	7.91	6	54	16	96	0.01	0.0	5.084	0.119	15	4	2	5
PL.40648	PL.40647	C	6 A (CWC)	7.11Y	118.4	0.03	6.56	5.71	4	39	11	96	0.01	0.0	5.243	0.158	25	7	1	3
PL.40649	PL.40648	C	6 A (CWC)	7.11Y	118.4	0.00	6.56	2.12	2	14	4	96	0.00	0.0	5.304	0.062	14	4	1	2

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40650	PL.40649	C	6 A (CWC)	7.11Y	118.4	0.00	6.57	0.03	0	0	0	100	0.00	0.0	5.543	0.239	0	0	0	1
PL.40651	PL.40650	C	6 A (CWC)	7.11Y	118.4	0.00	6.57	0.00	0	0	0	100	0.00	0.0	5.692	0.149	0	0	0	0
PL.40716	PL.40650	C	#1/0 ACSR	7.11Y	118.4	0.00	6.57	0.03	0	0	0	100	0.00	0.0	5.614	0.070	0	0	1	1
PL.40652	PL.40644	C	6 A (CWC)	7.11Y	118.5	0.05	6.54	12.06	9	82	24	96	0.03	0.0	5.048	0.083	0	0	0	15
PL.40653	PL.40652	C	6 A (CWC)	7.11Y	118.4	0.01	6.56	10.33	7	70	20	96	0.01	0.0	5.081	0.033	16	5	4	14
PL.40654	PL.40653	C	6 A (CWC)	7.11Y	118.4	0.02	6.58	8.02	6	55	16	96	0.01	0.0	5.136	0.055	0	0	0	10
PL.40655	PL.40654	C	6 A (CWC)	7.10Y	118.4	0.03	6.61	8.02	6	55	16	96	0.01	0.0	5.216	0.080	0	0	0	10
PL.40656	PL.40655	C	6 A (CWC)	7.10Y	118.4	0.02	6.62	5.56	4	38	11	96	0.00	0.0	5.294	0.077	15	4	2	8
PL.40657	PL.40656	C	6 A (CWC)	7.10Y	118.4	0.01	6.63	3.31	2	23	7	96	0.00	0.0	5.350	0.056	0	0	1	6
PL.40658	PL.40657	C	6 A (CWC)	7.10Y	118.4	0.01	6.64	3.29	2	22	6	96	0.00	0.0	5.397	0.047	0	0	0	5
PL.40659	PL.40658	C	6 A (CWC)	7.10Y	118.4	0.01	6.64	1.74	1	12	3	97	0.00	0.0	5.466	0.069	0	0	0	4
PL.40660	PL.40659	C	6 A (CWC)	7.10Y	118.4	0.00	6.64	0.08	0	1	0	100	0.00	0.0	5.644	0.178	0	0	1	2
PL.40750	PL.40660	C	6 A (CWC)	7.10Y	118.4	0.00	6.64	0.08	0	1	0	100	0.00	0.0	5.677	0.033	1	0	1	1
PL.40661	PL.40660	C	6 A (CWC)	7.10Y	118.4	0.00	6.64	0.00	0	0	0	100	0.00	0.0	5.686	0.042	0	0	0	0
PL.40572	PL.40661	C	6 A (CWC)	7.10Y	118.4	0.00	6.64	0.00	0	0	0	100	0.00	0.0	6.077	0.392	0	0	0	0
PL.40296	PL.40572	C	6 A (CWC)	7.10Y	118.4	0.00	6.64	0.00	0	0	0	100	0.00	0.0	6.181	0.103	0	0	0	0
PL.59214	PL.40572	C	6 A (CWC)	7.10Y	118.4	0.00	6.64	0.00	0	0	0	100	0.00	0.0	6.293	0.216	0	0	0	0
PL.40662	PL.40661	C	#4 ACSR	7.10Y	118.4	0.00	6.64	0.00	0	0	0	100	0.00	0.0	5.853	0.167	0	0	0	0
PL.40663	PL.40662	C	#4 ACSR	7.10Y	118.4	0.00	6.64	0.00	0	0	0	100	0.00	0.0	6.011	0.158	0	0	0	0
PL.40290	PL.40659	C	6 A (CWC)	7.10Y	118.4	0.00	6.64	0.85	1	6	2	95	0.00	0.0	5.499	0.033	6	2	1	1
PL.40753	PL.40659	C	#2 ACSR	7.10Y	118.4	0.00	6.64	0.80	0	5	2	93	0.00	0.0	5.562	0.096	5	2	1	1
PL.40698	PL.40658	C	#4 ACSR	7.10Y	118.4	0.00	6.64	1.55	1	11	3	96	0.00	0.0	5.457	0.060	11	3	1	1
PL.40563	PL.40655	C	#2 ACSR	7.10Y	118.4	0.00	6.61	2.46	1	17	5	96	0.00	0.0	5.252	0.036	17	5	2	2
PL.40699	PL.40652	C	#2 ACSR	7.11Y	118.5	0.00	6.54	1.74	1	12	3	97	0.00	0.0	5.080	0.032	12	3	1	1
PL.40640	PL.59203	C	6 A (CWC)	7.13Y	118.8	0.04	6.25	9.69	7	66	19	96	0.02	0.0	4.794	0.103	17	5	1	6
PL.40641	PL.40640	C	6 A (CWC)	7.12Y	118.7	0.02	6.27	7.21	5	49	14	96	0.01	0.0	4.868	0.075	0	0	0	5
PL.40642	PL.40641	C	6 A (CWC)	7.12Y	118.7	0.00	6.27	1.88	1	13	4	96	0.00	0.0	4.913	0.045	13	4	2	2
PL.40137	PL.40641	C	#2 ACSR	7.12Y	118.7	0.00	6.27	1.74	1	12	3	97	0.00	0.0	4.915	0.046	12	3	1	1
PL.63375	PL.40641	C	6 A (CWC)	7.12Y	118.7	0.02	6.29	3.60	3	25	7	96	0.00	0.0	4.998	0.129	0	0	0	2
PL.63377	PL.63375	C	#1/0 ACSR	7.12Y	118.7	0.00	6.29	2.30	1	16	5	95	0.00	0.0	5.032	0.035	0	0	0	1
PL.63378	PL.63377	C	#1/0 ACSR	7.12Y	118.7	0.00	6.29	2.30	1	16	5	95	0.00	0.0	5.054	0.022	16	5	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.63376	PL.63375	C	6 A (CWC)	7.12Y	118.7	0.00	6.29	1.30	1	9	3	95	0.00	0.0	5.011	0.013	9	3	1	1
PL.40708	PL.40162	C	6 A (CWC)	7.16Y	119.3	0.00	5.71	1.31	1	9	3	95	0.00	0.0	4.450	0.069	0	0	0	2
PL.40752	PL.40708	C	#4 ACSR	7.16Y	119.3	0.00	5.71	1.31	1	9	3	95	0.00	0.0	4.511	0.061	9	3	2	2
PL.59206	PL.59205	ABC	336 MCM AC	7.24Y	120.7	0.02	4.26	118.49	23	2460	762	96	0.23	0.0	3.622	0.020	1	0	1	303
PL.40639	PL.59206	ABC	336 MCM AC	7.24Y	120.7	0.03	4.29	118.46	23	2460	761	96	0.40	0.0	3.656	0.034	0	0	0	302
PL.39660	PL.40639	ABC	#2 ACSR	7.24Y	120.7	0.00	4.29	0.34	0	7	2	96	0.00	0.0	3.678	0.022	7	2	1	1
PL.40690	PL.40639	ABC	#2 ACSR	7.24Y	120.6	0.07	4.36	102.60	59	2128	663	95	1.20	0.1	3.683	0.028	0	0	0	260
PL.40291	PL.40690	ABC	336 MCM AC	7.23Y	120.6	0.06	4.42	102.60	20	2127	662	95	0.63	0.0	3.754	0.071	0	0	0	260
PL.40294	PL.40291	ABC	336 MCM AC	7.23Y	120.6	0.00	4.42	102.27	20	2120	659	95	0.05	0.0	3.760	0.006	0	0	0	256
PD.6380	PL.40294	ABC	140L	7.23Y	120.6	0.00	4.42	102.27	73	2120	659	95	0.00	0.0	3.760	0.006	0	0	0	256
PL.52238	PD.6380	ABC	336 MCM AC	7.23Y	120.5	0.10	4.52	102.27	20	2120	659	95	1.10	0.1	3.885	0.125	0	0	0	256
PL.52239	PL.52238	ABC	336 MCM AC	7.22Y	120.4	0.09	4.61	102.27	20	2119	656	96	0.96	0.0	3.994	0.109	0	0	0	256
PL.40344	PL.52239	ABC	336 MCM AC	7.22Y	120.3	0.13	4.73	102.27	20	2118	654	96	1.40	0.1	4.154	0.160	21	6	2	256
PL.40141	PL.40344	ABC	336 MCM AC	7.21Y	120.2	0.08	4.81	101.26	20	2095	645	96	0.89	0.0	4.258	0.103	0	0	0	254
PL.39664	PL.40141	A	#1/0 ACSR	7.21Y	120.2	0.00	4.81	0.00	0	0	0	100	0.00	0.0	4.305	0.047	0	0	0	0
PL.40142	PL.40141	ABC	336 MCM AC	7.21Y	120.1	0.04	4.85	101.26	20	2094	642	96	0.45	0.0	4.310	0.052	27	8	5	254
PL.60644	PL.40142	ABC	336 MCM AC	7.20Y	120.1	0.08	4.94	99.94	19	2066	633	96	0.89	0.0	4.416	0.106	2	1	1	249
PL.60645	PL.60644	ABC	336 MCM AC	7.20Y	120.0	0.03	4.97	99.83	19	2063	631	96	0.36	0.0	4.459	0.042	0	0	0	248
PL.63336	PL.60645	ABC	336 MCM AC	7.20Y	119.9	0.08	5.05	99.83	19	2063	630	96	0.90	0.0	4.567	0.108	10	3	1	248
PL.63337	PL.63336	ABC	336 MCM AC	7.20Y	119.9	0.03	5.08	99.32	19	2051	625	96	0.34	0.0	4.607	0.041	0	0	0	247
PL.59655	PL.63337	ABC	336 MCM AC	7.19Y	119.8	0.13	5.21	98.83	19	2041	621	96	1.42	0.1	4.780	0.173	0	0	0	246
PL.59654	PL.59655	A	#2 ACSR	7.19Y	119.8	0.00	5.21	0.00	0	0	0	100	0.00	0.0	4.840	0.060	0	0	0	0
PL.59657	PL.59655	ABC	336 MCM AC	7.18Y	119.7	0.08	5.29	98.22	19	2027	614	96	0.87	0.0	4.887	0.107	0	0	0	244
PL.59665	PL.59657	C	6 A (CWC)	7.18Y	119.7	0.01	5.30	3.39	2	23	7	96	0.00	0.0	4.938	0.051	15	4	1	4
PL.59667	PL.59665	C	6 A (CWC)	7.18Y	119.7	0.00	5.30	1.21	1	8	2	97	0.00	0.0	5.016	0.077	0	0	0	3
PD.8824	PL.59667	C	30T	7.18Y	119.7	0.00	5.30	1.21	0	8	2	97	0.00	0.0	5.016	0.077	0	0	0	3
PL.59668	PD.8824	C	6 A (CWC)	7.18Y	119.7	0.00	5.31	1.21	1	8	2	97	0.00	0.0	5.085	0.069	0	0	0	3
PL.59666	PL.59668	C	6 A (CWC)	7.18Y	119.7	0.02	5.32	1.21	1	8	2	97	0.00	0.0	5.566	0.481	5	1	1	3
PL.40456	PL.59666	C	6 A (CWC)	7.18Y	119.7	0.01	5.33	0.53	0	4	1	97	0.00	0.0	5.802	0.236	0	0	0	2
PL.40457	PL.40456	C	6 A (CWC)	7.18Y	119.7	0.00	5.33	0.25	0	2	1	89	0.00	0.0	5.949	0.146	0	0	0	1
PL.40177	PL.40457	C	6 A (CWC)	7.18Y	119.7	0.00	5.33	0.00	0	0	0	100	0.00	0.0	5.988	0.039	0	0	0	0

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40458	PL.40457	C	6 A (CWC)	7.18Y	119.7	0.00	5.33	0.25	0	2	1	89	0.00	0.0	6.084	0.136	0	0	0	1
PL.40744	PL.40458	C	#1/0 ACSR	7.18Y	119.7	0.00	5.33	0.25	0	2	1	89	0.00	0.0	6.128	0.043	2	1	1	1
PL.40941	PL.40458	C	6 A (CWC)	7.18Y	119.7	0.00	5.33	0.00	0	0	0	100	0.00	0.0	6.173	0.089	0	0	0	0
PL.40289	PL.40456	C	6 A (CWC)	7.18Y	119.7	0.00	5.33	0.27	0	2	1	89	0.00	0.0	5.829	0.026	2	1	1	1
PL.59725	PL.59657	C	#1/0 ACSR	7.18Y	119.7	0.00	5.29	1.31	1	9	3	95	0.00	0.0	4.893	0.006	0	0	0	2
PD.6329	PL.59725	C	40QA	7.18Y	119.7	0.00	5.29	1.31	3	9	3	95	0.00	0.0	4.893	0.006	0	0	0	2
PL.40455	PD.6329	C	#1/0 ACSR	7.18Y	119.7	0.00	5.29	1.31	1	9	3	95	0.00	0.0	4.918	0.025	9	3	2	2
PL.59621	PL.59657	ABC	336 MCM AC	7.18Y	119.7	0.05	5.34	96.66	19	1994	603	96	0.53	0.0	4.955	0.068	0	0	0	238
PD.8814-A	PL.59621	ABC	Closed	7.18Y	119.7	0.00	5.34	96.66	0	1993	601	96	0.00	0.0	4.955	0.068	0	0	0	238
PD.8814-B	PD.8814-A	ABC	Closed	7.18Y	119.7	0.00	5.34	96.66	0	1993	601	96	0.00	0.0	4.955	0.068	0	0	0	238
PL.59622	PD.8814-B	ABC	336 MCM AC	7.18Y	119.7	0.00	5.34	96.66	19	1993	601	96	0.02	0.0	4.958	0.003	0	0	0	238
PL.59728	PL.59622	ABC	336 MCM AC	7.18Y	119.7	0.00	5.34	13.45	3	278	81	96	0.00	0.0	4.961	0.003	0	0	0	37
PD.8813-A	PL.59728	ABC	Closed	7.18Y	119.7	0.00	5.34	13.45	0	278	81	96	0.00	0.0	4.961	0.003	0	0	0	37
PD.8813-B	PD.8813-A	ABC	Closed	7.18Y	119.7	0.00	5.34	13.45	0	278	81	96	0.00	0.0	4.961	0.003	0	0	0	37
PL.59653	PD.8813-B	ABC	336 MCM AC	7.18Y	119.7	0.00	5.35	13.45	3	278	81	96	0.01	0.0	5.003	0.042	22	6	4	37
PL.59637	PL.59653	ABC	336 MCM AC	7.18Y	119.6	0.01	5.35	12.40	2	256	75	96	0.01	0.0	5.062	0.060	0	0	0	33
PL.59636	PL.59637	ABC	336 MCM AC	7.17Y	119.6	0.08	5.44	11.72	2	242	71	96	0.11	0.0	5.988	0.926	0	0	0	32
PL.59626	PL.59636	ABC	336 MCM AC	7.17Y	119.5	0.04	5.47	11.72	2	242	71	96	0.05	0.0	6.388	0.400	0	0	0	32
PL.59632	PL.59626	ABC	#3/0 ACSR	7.17Y	119.5	0.00	5.47	0.00	0	0	0	100	0.00	0.0	6.585	0.197	0	0	0	0
PD.10592-A	PL.59632	ABC	Open	7.17Y	119.5	0.00	5.47	0.00	0	0	0	100	0.00	0.0	6.585	0.197	0	0	0	0
PL.59625	PL.59626	A	#2 ACSR	7.17Y	119.5	0.01	5.48	33.81	19	233	68	96	0.01	0.0	6.394	0.006	0	0	0	31
PD.6179	PL.59625	A	25T	7.17Y	119.5	0.00	5.48	33.81	0	233	68	96	0.00	0.0	6.394	0.006	0	0	0	31
PL.40053	PD.6179	A	#2 ACSR	7.17Y	119.5	0.03	5.51	33.81	19	233	68	96	0.05	0.0	6.423	0.029	9	3	1	31
PL.40056	PL.40053	A	#2 ACSR	7.16Y	119.4	0.13	5.63	30.18	17	208	60	96	0.19	0.1	6.561	0.138	21	6	1	27
PL.58913	PL.40056	A	#2 ACSR	7.15Y	119.2	0.14	5.77	27.09	15	186	54	96	0.19	0.1	6.726	0.164	1	0	1	26
PL.58912	PL.58913	A	#2 ACSR	7.15Y	119.2	0.00	5.78	3.38	2	23	7	96	0.00	0.0	6.783	0.057	23	7	5	5
PL.58914	PL.58913	A	#2 ACSR	7.15Y	119.2	0.07	5.84	21.72	12	149	43	96	0.07	0.0	6.827	0.101	17	5	3	19
PL.63080	PL.58914	A	#2 ACSR	7.15Y	119.1	0.03	5.86	19.28	11	132	38	96	0.02	0.0	6.868	0.041	0	0	0	16
PL.63082	PL.63080	A	#1/0 ACSR	7.15Y	119.1	0.00	5.87	1.27	1	9	3	95	0.00	0.0	6.887	0.019	0	0	0	1
PL.63083	PL.63082	A	#1/0 ACSR	7.15Y	119.1	0.00	5.87	1.27	1	9	3	95	0.00	0.0	6.926	0.039	9	3	1	1
PL.63081	PL.63080	A	#2 ACSR	7.15Y	119.1	0.05	5.91	18.01	10	124	36	96	0.04	0.0	6.954	0.086	13	4	1	15

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Balanced Voltage Drop Report
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Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40057	PL.63081	A	#2 ACSR	7.14Y	119.1	0.03	5.94	16.09	9	110	32	96	0.02	0.0	7.017	0.063	9	3	3	14
PL.40058	PL.40057	A	#2 ACSR	7.14Y	119.0	0.03	5.98	14.74	8	101	29	96	0.03	0.0	7.090	0.073	0	0	0	11
PL.40059	PL.40058	A	#2 ACSR	7.14Y	119.0	0.03	6.01	14.74	8	101	29	96	0.02	0.0	7.166	0.076	19	6	1	11
PL.40060	PL.40059	A	#2 ACSR	7.14Y	118.9	0.05	6.06	11.97	7	82	24	96	0.03	0.0	7.301	0.135	9	3	1	10
PL.39473	PL.40060	A	#2 ACSR	7.14Y	118.9	0.01	6.06	5.84	3	40	12	96	0.00	0.0	7.338	0.037	0	0	0	3
PL.39516	PL.39473	A	#2 ACSR	7.13Y	118.9	0.03	6.09	5.84	3	40	12	96	0.01	0.0	7.510	0.172	0	0	0	3
PL.39067	PL.39516	A	#4 ACSR	7.13Y	118.9	0.01	6.10	4.58	4	31	9	96	0.00	0.0	7.566	0.056	31	9	1	1
PL.58910	PL.39516	A	6 A (CWC)	7.13Y	118.9	0.00	6.09	0.00	0	0	0	100	0.00	0.0	7.514	0.004	0	0	0	0
PL.38620	PL.39516	A	#2 ACSR	7.13Y	118.9	0.00	6.10	1.26	1	9	2	98	0.00	0.0	7.534	0.024	9	2	2	2
PL.58786	PL.40060	A	#4 ACSR	7.13Y	118.9	0.05	6.11	4.84	4	33	10	96	0.01	0.0	7.559	0.258	4	1	1	6
PL.58788	PL.58786	A	#4 ACSR	7.13Y	118.9	0.01	6.11	3.49	3	24	7	96	0.00	0.0	7.599	0.040	0	0	0	4
PL.58790	PL.58788	A	#1/0 ACSR	7.13Y	118.9	0.00	6.11	0.00	0	0	0	100	0.00	0.0	7.626	0.028	0	0	1	1
PL.58789	PL.58788	A	#4 ACSR	7.13Y	118.9	0.01	6.12	3.49	3	24	7	96	0.00	0.0	7.644	0.045	12	3	1	3
PL.58787	PL.58789	A	#4 ACSR	7.13Y	118.9	0.00	6.12	1.74	1	12	3	97	0.00	0.0	7.695	0.051	1	0	1	2
PL.40061	PL.58787	A	#4 ACSR	7.13Y	118.9	0.00	6.13	1.65	1	11	3	96	0.00	0.0	7.747	0.052	11	3	1	1
PL.58785	PL.58786	A	#2 ACSR	7.13Y	118.9	0.00	6.11	0.71	0	5	1	98	0.00	0.0	7.602	0.043	5	1	1	1
PL.58911	PL.58913	A	#2 ACSR	7.15Y	119.2	0.00	5.78	1.79	1	12	4	95	0.00	0.0	6.826	0.100	12	4	1	1
PL.40054	PL.40053	A	#2 ACSR	7.17Y	119.5	0.00	5.51	2.26	1	16	5	95	0.00	0.0	6.492	0.070	5	1	2	3
PL.40055	PL.40054	A	#2 ACSR	7.17Y	119.5	0.00	5.51	1.52	1	10	3	96	0.00	0.0	6.581	0.088	10	3	1	1
PL.59624	PL.59626	A	#4 ACSR	7.17Y	119.5	0.00	5.47	1.36	1	9	3	95	0.00	0.0	6.394	0.006	0	0	0	1
PD.5928	PL.59624	A	40QA	7.17Y	119.5	0.00	5.47	1.36	3	9	3	95	0.00	0.0	6.394	0.006	0	0	0	1
PL.40052	PD.5928	A	#4 ACSR	7.17Y	119.5	0.00	5.47	1.36	1	9	3	95	0.00	0.0	6.421	0.027	9	3	1	1
PL.59635	PL.59637	C	#2 ACSR	7.18Y	119.6	0.00	5.36	2.05	1	14	4	96	0.00	0.0	5.087	0.025	14	4	1	1
PL.59726	PL.59622	ABC	336 MCM AC	7.18Y	119.7	0.00	5.35	83.21	16	1715	520	96	0.02	0.0	4.961	0.003	0	0	0	201
PD.8812-A	PL.59726	ABC	Closed	7.18Y	119.7	0.00	5.35	83.21	0	1715	520	96	0.00	0.0	4.961	0.003	0	0	0	201
PD.8812-B	PD.8812-A	ABC	Closed	7.18Y	119.7	0.00	5.35	83.21	0	1715	520	96	0.00	0.0	4.961	0.003	0	0	0	201
PL.59727	PD.8812-B	ABC	336 MCM AC	7.17Y	119.5	0.13	5.48	83.21	16	1715	520	96	1.21	0.1	5.169	0.208	0	0	0	201
PL.59724	PL.59727	ABC	336 MCM AC	7.17Y	119.5	0.04	5.51	83.21	16	1714	517	96	0.33	0.0	5.226	0.057	0	0	1	201
PL.56478	PL.59724	ABC	336 MCM AC	7.17Y	119.4	0.05	5.56	83.20	16	1713	516	96	0.42	0.0	5.298	0.072	19	6	2	200
PL.56480	PL.56478	ABC	336 MCM AC	7.16Y	119.4	0.04	5.60	81.81	16	1684	507	96	0.35	0.0	5.359	0.061	0	0	0	197
PL.38534	PL.56480	ABC	336 MCM AC	7.16Y	119.3	0.14	5.74	81.40	16	1675	504	96	1.26	0.1	5.585	0.226	0	0	0	195

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.56525	PL.38534	ABC	336 MCM AC	7.15Y	119.2	0.03	5.77	80.77	16	1661	497	96	0.26	0.0	5.633	0.048	10	3	1	194
PL.56526	PL.56525	ABC	336 MCM AC	7.15Y	119.2	0.03	5.80	80.27	15	1651	494	96	0.31	0.0	5.690	0.057	0	0	0	193
PL.56528	PL.56526	ABC	336 MCM AC	7.15Y	119.2	0.03	5.84	80.27	15	1650	493	96	0.29	0.0	5.744	0.054	0	0	0	193
PL.56529	PL.56528	ABC	336 MCM AC	7.15Y	119.2	0.00	5.84	80.27	15	1650	492	96	0.02	0.0	5.747	0.003	0	0	0	193
PD.8306	PL.56529	ABC	140L	7.15Y	119.2	0.00	5.84	80.27	57	1650	492	96	0.00	0.0	5.747	0.003	0	0	0	193
PL.56530	PD.8306	ABC	336 MCM AC	7.15Y	119.1	0.03	5.87	80.27	15	1650	492	96	0.31	0.0	5.805	0.057	28	8	3	193
PL.38614	PL.56530	ABC	336 MCM AC	7.15Y	119.1	0.03	5.90	76.96	15	1581	472	96	0.23	0.0	5.850	0.046	16	5	1	187
PL.40065	PL.38614	ABC	336 MCM AC	7.14Y	119.1	0.02	5.92	76.18	15	1565	466	96	0.19	0.0	5.889	0.039	0	0	0	186
PL.40066	PL.40065	ABC	336 MCM AC	7.14Y	119.0	0.03	5.95	75.30	15	1547	461	96	0.27	0.0	5.946	0.057	7	2	1	185
PL.38788	PL.40066	A	#2 ACSR	7.14Y	119.0	0.00	5.96	1.33	1	9	3	95	0.00	0.0	5.993	0.047	9	3	1	1
PL.40067	PL.40066	ABC	336 MCM AC	7.14Y	119.0	0.03	5.98	73.96	14	1519	452	96	0.25	0.0	5.999	0.054	0	0	0	182
PL.40068	PL.40067	ABC	336 MCM AC	7.14Y	119.0	0.01	6.00	73.96	14	1519	452	96	0.12	0.0	6.025	0.026	3	1	2	182
PL.40069	PL.40068	ABC	336 MCM AC	7.14Y	118.9	0.06	6.06	73.81	14	1516	450	96	0.46	0.0	6.126	0.101	0	0	0	180
PL.40070	PL.40069	ABC	336 MCM AC	7.13Y	118.9	0.06	6.11	73.81	14	1515	449	96	0.47	0.0	6.229	0.103	0	0	0	180
PL.38300	PL.40070	ABC	#1/0 ACSR	7.11Y	118.6	0.32	6.43	71.83	31	1474	436	96	3.32	0.2	6.470	0.241	0	0	0	176
PL.38760	PL.38300	B	6 A (CWC)	7.11Y	118.5	0.04	6.46	38.12	27	260	76	96	0.07	0.0	6.492	0.022	15	4	2	33
PL.38761	PL.38760	B	6 A (CWC)	7.11Y	118.4	0.09	6.56	35.85	26	245	71	96	0.18	0.1	6.549	0.057	4	1	1	31
PL.38827	PL.38761	B	6 A (CWC)	7.10Y	118.4	0.05	6.61	30.68	22	209	61	96	0.08	0.0	6.585	0.036	0	0	0	28
PL.59658	PL.38827	B	6 A (CWC)	7.10Y	118.4	0.00	6.61	30.68	22	209	61	96	0.01	0.0	6.588	0.003	0	0	0	28
PD.8822	PL.59658	B	50L	7.10Y	118.4	0.00	6.61	30.68	61	209	61	96	0.00	0.0	6.588	0.003	0	0	0	28
PL.59660	PD.8822	B	6 A (CWC)	7.10Y	118.3	0.07	6.69	30.68	22	209	61	96	0.11	0.1	6.641	0.053	17	5	2	28
PL.59659	PL.59660	B	6 A (CWC)	7.10Y	118.3	0.03	6.72	28.20	20	192	56	96	0.04	0.0	6.664	0.023	0	0	0	26
PL.39378	PL.59659	B	6 A (CWC)	7.10Y	118.3	0.00	6.72	1.51	1	10	3	96	0.00	0.0	6.759	0.095	10	3	1	1
PL.38828	PL.59659	B	6 A (CWC)	7.09Y	118.2	0.08	6.80	26.70	19	182	53	96	0.11	0.1	6.738	0.073	30	9	4	25
REG46	PL.38828	B	76.2 KVA	7.51Y	125.2	-7.05	-0.25	22.33	22	152	44	96	percent Boost= 0.00 Tap= 0.0							21
PL.39320	REG46	B	6 A (CWC)	7.50Y	125.1	0.17	-0.08	21.07	15	152	44	96	0.19	0.1	6.916	0.178	0	0	0	21
PL.38744	PL.39320	B	6 A (CWC)	7.50Y	125.1	0.00	-0.07	2.26	2	16	5	95	0.00	0.0	6.949	0.033	16	5	1	1
PL.38298	PL.39320	B	6 A (CWC)	7.50Y	125.0	0.05	-0.03	18.81	13	136	39	96	0.04	0.0	6.971	0.055	10	3	1	20
PL.38299	PL.38298	B	6 A (CWC)	7.50Y	125.0	0.04	0.01	17.42	12	125	36	96	0.03	0.0	7.015	0.044	0	0	0	19
PL.39066	PL.38299	B	6 A (CWC)	7.50Y	125.0	0.03	0.04	17.42	12	125	36	96	0.03	0.0	7.052	0.038	0	0	0	19
PL.56481	PL.39066	B	6 A (CWC)	7.50Y	124.9	0.04	0.08	17.42	12	125	36	96	0.04	0.0	7.104	0.052	5	1	1	19

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
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Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.56483	PL.56481	B	6 A (CWC)	7.49Y	124.9	0.06	0.14	9.67	7	70	20	96	0.03	0.0	7.250	0.146	10	3	3	9
PL.38829	PL.56483	B	6 A (CWC)	7.49Y	124.9	0.01	0.15	5.90	4	42	12	96	0.00	0.0	7.304	0.054	11	3	1	5
PL.38830	PL.38829	B	6 A (CWC)	7.49Y	124.8	0.01	0.15	4.43	3	32	9	96	0.00	0.0	7.336	0.032	15	4	2	4
PL.56484	PL.38830	B	6 A (CWC)	7.49Y	124.8	0.00	0.16	2.40	2	17	5	96	0.00	0.0	7.392	0.055	17	5	2	2
PL.39434	PL.56483	B	6 A (CWC)	7.49Y	124.9	0.00	0.14	2.33	2	17	5	96	0.00	0.0	7.338	0.088	17	5	1	1
PL.58909	PL.39434	B	6 A (CWC)	7.49Y	124.9	0.00	0.14	0.00	0	0	0	100	0.00	0.0	7.402	0.064	0	0	0	0
PL.56482	PL.56481	B	#1/0 ACSR	7.49Y	124.9	0.01	0.09	7.06	3	51	15	96	0.00	0.0	7.190	0.086	7	2	1	9
PL.38313	PL.56482	B	#1/0 ACSR	7.49Y	124.9	0.01	0.10	4.15	2	30	9	96	0.00	0.0	7.254	0.064	2	1	1	7
PL.39429	PL.38313	B	#1/0 ACSR	7.49Y	124.9	0.01	0.10	3.87	2	28	8	96	0.00	0.0	7.310	0.056	0	0	0	6
PL.39430	PL.39429	B	#1/0 ACSR	7.49Y	124.9	0.00	0.10	1.27	1	9	3	95	0.00	0.0	7.363	0.053	0	0	0	2
PL.38752	PL.39430	B	#1/0 ACSR	7.49Y	124.9	0.00	0.10	0.00	0	0	0	100	0.00	0.0	7.419	0.055	0	0	1	1
PL.38962	PL.39430	B	#4 ACSR	7.49Y	124.9	0.00	0.10	1.27	1	9	3	95	0.00	0.0	7.386	0.023	9	3	1	1
PL.39431	PL.39429	B	#1/0 ACSR	7.49Y	124.9	0.00	0.10	2.60	1	19	5	97	0.00	0.0	7.375	0.064	5	1	1	4
PL.39432	PL.39431	B	#1/0 ACSR	7.49Y	124.9	0.00	0.11	1.89	1	14	4	96	0.00	0.0	7.443	0.068	9	3	2	3
PL.39433	PL.39432	B	#1/0 ACSR	7.49Y	124.9	0.00	0.11	0.60	0	4	1	97	0.00	0.0	7.494	0.051	4	1	1	1
PL.39154	PL.56482	B	#1/0 ACSR	7.49Y	124.9	0.00	0.09	1.99	1	14	4	96	0.00	0.0	7.205	0.015	14	4	1	1
PL.38746	PL.38761	B	#4 ACSR	7.11Y	118.4	0.00	6.56	1.50	1	10	3	96	0.00	0.0	6.620	0.072	10	3	1	1
PL.39362	PL.38761	B	#4 ACSR	7.11Y	118.4	0.00	6.56	3.01	2	21	6	96	0.00	0.0	6.589	0.041	21	6	1	1
PL.59168	PL.38300	A	6 A (CWC)	7.11Y	118.6	0.00	6.43	11.06	8	76	22	96	0.00	0.0	6.473	0.003	0	0	0	9
PD.8806	PL.59168	A	35L	7.11Y	118.6	0.00	6.43	11.06	32	76	22	96	0.00	0.0	6.473	0.003	0	0	0	9
PL.59169	PD.8806	A	6 A (CWC)	7.11Y	118.5	0.03	6.46	11.06	8	76	22	96	0.02	0.0	6.530	0.057	9	3	1	9
PL.38831	PL.59169	A	6 A (CWC)	7.11Y	118.5	0.03	6.49	9.79	7	67	19	96	0.02	0.0	6.611	0.081	6	2	1	8
PL.38832	PL.38831	A	6 A (CWC)	7.11Y	118.4	0.06	6.55	8.89	6	61	18	96	0.03	0.0	6.776	0.165	13	4	3	7
PL.38833	PL.38832	A	6 A (CWC)	7.10Y	118.4	0.06	6.61	6.92	5	47	14	96	0.02	0.0	6.953	0.177	0	0	0	4
PL.38294	PL.38833	A	#2 ACSR	7.10Y	118.4	0.00	6.61	1.98	1	13	4	96	0.00	0.0	6.989	0.036	13	4	1	1
PL.38834	PL.38833	A	6 A (CWC)	7.10Y	118.4	0.01	6.62	4.95	4	34	10	96	0.00	0.0	7.023	0.070	12	3	1	3
PL.38835	PL.38834	A	6 A (CWC)	7.10Y	118.4	0.01	6.63	3.26	2	22	6	96	0.00	0.0	7.108	0.085	17	5	1	2
PL.38836	PL.38835	A	6 A (CWC)	7.10Y	118.4	0.00	6.63	0.70	0	5	1	98	0.00	0.0	7.174	0.066	0	0	0	1
PL.39388	PL.38836	A	6 A (CWC)	7.10Y	118.4	0.00	6.63	0.70	0	5	1	98	0.00	0.0	7.289	0.115	5	1	1	1
PL.38837	PL.38836	A	6 A (CWC)	7.10Y	118.4	0.00	6.63	0.00	0	0	0	100	0.00	0.0	7.196	0.023	0	0	0	0
PL.38838	PL.38837	A	6 A (CWC)	7.10Y	118.4	0.00	6.63	0.00	0	0	0	100	0.00	0.0	7.459	0.263	0	0	0	0

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Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.39077	PL.38300	ABC	#1/0 ACSR	7.11Y	118.5	0.06	6.49	55.43	24	1135	336	96	0.48	0.0	6.528	0.058	8	2	1	134
PL.39078	PL.39077	ABC	#1/0 ACSR	7.10Y	118.3	0.17	6.66	55.05	24	1126	333	96	1.39	0.1	6.701	0.173	8	2	1	133
PL.38839	PL.39078	ABC	#1/0 ACSR	7.10Y	118.3	0.03	6.69	54.66	24	1117	329	96	0.21	0.0	6.728	0.027	0	0	0	132
PL.52705	PL.38839	ABC	#1/0 ACSR	7.10Y	118.3	0.05	6.74	54.61	24	1116	329	96	0.42	0.0	6.780	0.052	0	0	0	130
PL.52706	PL.52705	ABC	#1/0 ACSR	7.09Y	118.2	0.04	6.77	54.61	24	1115	328	96	0.29	0.0	6.817	0.036	0	0	0	130
PL.38058	PL.52706	ABC	#1/0 ACSR	7.09Y	118.2	0.06	6.84	47.62	21	972	286	96	0.45	0.0	6.890	0.074	0	0	0	114
PL.38061	PL.38058	ABC	#1/0 ACSR	7.08Y	118.1	0.10	6.94	46.24	20	943	278	96	0.66	0.1	7.009	0.118	26	8	3	113
REG47	PL.38061	ABC	76.2 KVA	7.51Y	125.1	-7.04	-0.10	44.95	45	916	270	96	percent Boost= 5.62 Tap= 9.0							110
PL.38062	REG47	ABC	#1/0 ACSR	7.50Y	125.0	0.06	-0.04	42.42	18	916	270	96	0.37	0.0	7.087	0.078	16	5	1	110
PL.38063	PL.38062	ABC	#1/0 ACSR	7.50Y	125.0	0.03	-0.01	41.69	18	900	265	96	0.16	0.0	7.122	0.035	0	0	0	109
PL.38064	PL.38063	ABC	#1/0 ACSR	7.50Y	124.9	0.09	0.07	41.69	18	900	264	96	0.53	0.1	7.237	0.115	0	0	0	109
PL.39337	PL.38064	ABC	#1/0 ACSR	7.49Y	124.9	0.02	0.10	38.68	17	835	245	96	0.13	0.0	7.269	0.032	10	3	1	103
PL.38072	PL.39337	ABC	#1/0 ACSR	7.49Y	124.9	0.04	0.13	38.21	17	824	242	96	0.21	0.0	7.323	0.054	0	0	0	102
PL.62529	PL.38072	ABC	#1/0 ACSR	7.49Y	124.8	0.03	0.16	38.21	17	824	242	96	0.16	0.0	7.364	0.041	0	0	0	102
PL.62530	PL.62529	ABC	#1/0 ACSR	7.48Y	124.7	0.11	0.27	37.48	16	808	237	96	0.62	0.1	7.530	0.167	0	0	0	100
PL.40097	PL.62530	C	6 A (CWC)	7.48Y	124.7	0.00	0.27	0.70	0	5	1	98	0.00	0.0	7.536	0.006	0	0	0	2
PD.5941	PL.40097	C	40QA	7.48Y	124.7	0.00	0.27	0.70	2	5	1	98	0.00	0.0	7.536	0.006	0	0	0	2
PL.40098	PD.5941	C	6 A (CWC)	7.48Y	124.7	0.00	0.28	0.70	0	5	1	98	0.00	0.0	7.567	0.031	5	1	2	2
PL.40099	PL.62530	ABC	#1/0 ACSR	7.48Y	124.7	0.06	0.33	37.25	16	803	235	96	0.32	0.0	7.616	0.085	0	0	0	98
PL.40100	PL.40099	ABC	#1/0 ACSR	7.48Y	124.6	0.06	0.39	36.22	16	780	228	96	0.31	0.0	7.704	0.089	0	0	0	97
PL.40105	PL.40100	ABC	#1/0 ACSR	7.48Y	124.6	0.02	0.41	34.47	15	742	217	96	0.10	0.0	7.735	0.030	0	0	0	94
PL.40106	PL.40105	ABC	#1/0 ACSR	7.47Y	124.6	0.03	0.44	34.47	15	742	217	96	0.15	0.0	7.781	0.046	0	0	0	94
PL.61593	PL.40106	ABC	#1/0 ACSR	7.47Y	124.5	0.04	0.48	34.34	15	739	216	96	0.22	0.0	7.851	0.070	0	0	1	93
PL.61594	PL.61593	ABC	#1/0 ACSR	7.47Y	124.5	0.04	0.52	34.34	15	739	216	96	0.20	0.0	7.916	0.065	0	0	1	92
PL.40107	PL.61594	ABC	#1/0 ACSR	7.46Y	124.4	0.10	0.63	31.60	14	680	199	96	0.48	0.1	8.097	0.181	0	0	0	84
PL.38919	PL.40107	C	6 A (CWC)	7.46Y	124.4	0.00	0.63	17.80	13	128	37	96	0.00	0.0	8.102	0.006	0	0	0	17
PD.5939	PL.38919	C	40QA	7.46Y	124.4	0.00	0.63	17.80	44	128	37	96	0.00	0.0	8.102	0.006	0	0	0	17
PL.38920	PD.5939	C	6 A (CWC)	7.45Y	124.2	0.16	0.79	17.80	13	128	37	96	0.15	0.1	8.302	0.200	0	0	0	17
PL.38921	PL.38920	C	#2 ACSR	7.45Y	124.2	0.00	0.80	1.79	1	13	4	96	0.00	0.0	8.334	0.032	13	4	1	1
PL.38923	PL.38920	C	6 A (CWC)	7.44Y	124.1	0.13	0.93	16.01	11	115	33	96	0.11	0.1	8.482	0.180	2	1	1	16
PL.39358	PL.38923	C	#1/0 ACSR	7.44Y	124.1	0.00	0.93	1.37	1	10	3	96	0.00	0.0	8.521	0.039	10	3	1	1

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Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38924	PL.38923	C	#4 ACSR	7.44Y	124.1	0.01	0.94	5.37	4	38	11	96	0.00	0.0	8.575	0.093	33	10	3	4
PL.38925	PL.38924	C	#4 ACSR	7.44Y	124.1	0.00	0.94	0.78	1	6	2	95	0.00	0.0	8.628	0.053	6	2	1	1
PL.38926	PL.38923	C	6 A (CWC)	7.44Y	124.0	0.04	0.96	9.02	6	65	19	96	0.02	0.0	8.577	0.096	4	1	1	10
PL.38384	PL.38926	C	6 A (CWC)	7.44Y	124.0	0.00	0.97	0.63	0	5	1	98	0.00	0.0	8.650	0.073	5	1	2	2
PL.38927	PL.38926	C	6 A (CWC)	7.44Y	124.0	0.03	0.99	7.82	6	56	16	96	0.01	0.0	8.663	0.086	21	6	1	7
PL.38928	PL.38927	C	#2 ACSR	7.44Y	124.0	0.00	0.99	2.23	1	16	5	95	0.00	0.0	8.758	0.095	16	5	1	1
PL.39026	PL.38927	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	2.68	2	19	6	95	0.00	0.0	8.740	0.077	19	5	2	5
PL.38260	PL.39026	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	0.03	0	0	0	100	0.00	0.0	8.816	0.075	0	0	0	3
PL.38922	PL.38260	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	0.03	0	0	0	100	0.00	0.0	8.911	0.095	0	0	0	3
PL.38929	PL.38922	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	0.03	0	0	0	100	0.00	0.0	8.968	0.057	0	0	0	3
PL.39167	PL.38929	C	#2 ACSR	7.44Y	124.0	0.00	0.99	0.00	0	0	0	100	0.00	0.0	8.988	0.020	0	0	2	2
PL.38930	PL.38929	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	0.03	0	0	0	100	0.00	0.0	9.018	0.050	0	0	1	1
PL.38307	PL.38260	C	#4 ACSR	7.44Y	124.0	0.00	0.99	0.00	0	0	0	100	0.00	0.0	8.859	0.044	0	0	0	0
PL.39353	PL.40107	ABC	#1/0 ACSR	7.46Y	124.3	0.03	0.66	25.67	11	552	161	96	0.11	0.0	8.159	0.062	0	0	0	67
PL.39480	PL.39353	ABC	#1/0 ACSR	7.46Y	124.3	0.02	0.68	21.58	9	464	136	96	0.07	0.0	8.219	0.060	21	6	4	56
PL.39481	PL.39480	ABC	#1/0 ACSR	7.46Y	124.3	0.01	0.69	20.59	9	442	129	96	0.03	0.0	8.249	0.030	0	0	0	52
PL.40109	PL.39481	ABC	#1/0 ACSR	7.46Y	124.3	0.03	0.72	19.49	8	419	123	96	0.08	0.0	8.325	0.075	4	1	1	50
PL.40112	PL.40109	ABC	#1/0 ACSR	7.45Y	124.2	0.05	0.77	19.31	8	415	121	96	0.15	0.0	8.477	0.152	0	0	0	49
PL.40113	PL.40112	ABC	#1/0 ACSR	7.45Y	124.2	0.03	0.80	19.31	8	414	121	96	0.08	0.0	8.559	0.082	0	0	0	49
PL.40114	PL.40113	C	#1/0 ACSR	7.45Y	124.2	0.00	0.80	13.06	6	94	27	96	0.00	0.0	8.565	0.006	0	0	0	10
PD.6170	PL.40114	C	40QA	7.45Y	124.2	0.00	0.80	13.06	33	94	27	96	0.00	0.0	8.565	0.006	0	0	0	10
PL.40115	PD.6170	C	#1/0 ACSR	7.45Y	124.2	0.00	0.80	13.06	6	94	27	96	0.00	0.0	8.571	0.007	22	6	3	10
PL.40116	PL.40115	C	#1/0 ACSR	7.45Y	124.2	0.02	0.82	9.96	4	71	21	96	0.01	0.0	8.650	0.078	5	1	1	7
PL.40117	PL.40116	C	#1/0 ACSR	7.45Y	124.2	0.01	0.83	6.56	3	47	14	96	0.00	0.0	8.722	0.072	13	4	1	4
PL.40118	PL.40117	C	#1/0 ACSR	7.45Y	124.2	0.01	0.84	4.67	2	33	10	96	0.00	0.0	8.789	0.066	13	4	1	3
PL.40119	PL.40118	C	#1/0 ACSR	7.45Y	124.2	0.00	0.84	2.91	1	21	6	96	0.00	0.0	8.888	0.099	12	3	1	2
PL.40120	PL.40119	C	#1/0 ACSR	7.45Y	124.2	0.00	0.84	1.23	1	9	3	95	0.00	0.0	8.960	0.072	9	3	1	1
PL.37193	PL.40116	C	#4 ACSR	7.45Y	124.2	0.00	0.82	2.73	2	20	6	96	0.00	0.0	8.722	0.072	20	6	2	2
PL.39165	PL.40113	B	#1/0 ACSR	7.45Y	124.2	0.03	0.83	44.87	20	321	94	96	0.06	0.0	8.585	0.026	0	0	0	39
PL.59663	PL.39165	B	#1/0 ACSR	7.45Y	124.2	0.00	0.83	44.87	20	321	94	96	0.01	0.0	8.587	0.003	0	0	0	39
PD.8823	PL.59663	B	70L	7.45Y	124.2	0.00	0.83	44.87	64	321	94	96	0.00	0.0	8.587	0.003	0	0	0	39

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.59664	PD.8823	B	#1/0 ACSR	7.44Y	123.9	0.24	1.07	44.87	20	321	94	96	0.49	0.2	8.813	0.226	0	0	0	39
PL.59661	PL.59664	B	#1/0 ACSR	7.43Y	123.9	0.07	1.14	42.74	19	305	89	96	0.14	0.0	8.886	0.073	8	2	1	37
PL.38286	PL.59661	B	#1/0 ACSR	7.43Y	123.8	0.11	1.25	41.63	18	297	86	96	0.21	0.1	8.999	0.113	0	0	0	36
PL.39348	PL.38286	B	6 A (CWC)	7.42Y	123.7	0.00	1.25	11.81	8	84	24	96	0.00	0.0	9.005	0.006	0	0	0	12
PD.5935	PL.39348	B	20T	7.42Y	123.7	0.00	1.25	11.81	0	84	24	96	0.00	0.0	9.005	0.006	0	0	0	12
PL.38933	PD.5935	B	6 A (CWC)	7.41Y	123.5	0.21	1.47	11.81	8	84	24	96	0.13	0.1	9.440	0.435	16	4	1	12
PL.38934	PL.38933	B	6 A (CWC)	7.41Y	123.5	0.02	1.49	9.63	7	69	20	96	0.01	0.0	9.485	0.045	0	0	1	11
PL.39474	PL.38934	B	6 A (CWC)	7.41Y	123.5	0.03	1.51	9.63	7	69	20	96	0.01	0.0	9.552	0.068	14	4	2	10
PL.40121	PL.39474	B	6 A (CWC)	7.41Y	123.4	0.04	1.55	7.61	5	54	16	96	0.02	0.0	9.672	0.120	0	0	0	8
PL.40122	PL.40121	B	6 A (CWC)	7.41Y	123.4	0.01	1.56	5.70	4	41	12	96	0.00	0.0	9.715	0.043	27	8	4	5
PL.61603	PL.40122	B	#1/0 ACSR	7.41Y	123.4	0.00	1.56	1.92	1	14	4	96	0.00	0.0	9.747	0.032	14	4	1	1
PL.37027	PL.40121	B	#4 ACSR	7.41Y	123.4	0.00	1.56	0.87	1	6	2	95	0.00	0.0	9.732	0.061	6	2	1	1
PL.39344	PL.40121	B	#2 ACSR	7.41Y	123.4	0.00	1.56	1.04	1	7	2	96	0.00	0.0	9.749	0.077	7	2	2	2
PL.40123	PL.38286	B	#1/0 ACSR	7.42Y	123.7	0.01	1.26	25.04	11	179	52	96	0.02	0.0	9.024	0.025	8	2	1	19
PL.39175	PL.40123	B	6 A (CWC)	7.42Y	123.7	0.00	1.26	1.70	1	12	4	95	0.00	0.0	9.030	0.006	12	4	2	2
PL.40124	PL.40123	B	#1/0 ACSR	7.42Y	123.7	0.03	1.29	22.25	10	159	46	96	0.03	0.0	9.082	0.057	0	0	0	16
PL.39159	PL.40124	B	#1/0 ACSR	7.42Y	123.7	0.00	1.29	0.00	0	0	0	100	0.00	0.0	9.119	0.038	0	0	0	0
PL.40126	PL.40124	B	#1/0 ACSR	7.42Y	123.6	0.06	1.36	22.25	10	159	46	96	0.06	0.0	9.201	0.120	0	0	0	16
PL.40127	PL.40126	B	6 A (CWC)	7.42Y	123.6	0.04	1.40	17.70	13	126	37	96	0.04	0.0	9.254	0.053	0	0	0	13
PL.39933	PL.40127	B	#1/0 ACSR	7.41Y	123.6	0.02	1.42	17.70	8	126	37	96	0.02	0.0	9.300	0.045	0	0	0	13
PL.39934	PL.39933	B	#4 ACSR	7.41Y	123.6	0.00	1.42	9.93	8	71	20	96	0.00	0.0	9.305	0.006	0	0	0	7
PD.6189	PL.39934	B	25QA	7.41Y	123.6	0.00	1.42	9.93	40	71	20	96	0.00	0.0	9.305	0.006	0	0	0	7
PL.39935	PD.6189	B	#4 ACSR	7.41Y	123.6	0.02	1.44	9.93	8	71	20	96	0.01	0.0	9.356	0.050	28	8	1	7
PL.39936	PL.39935	B	#4 ACSR	7.41Y	123.5	0.04	1.47	5.47	4	39	11	96	0.01	0.0	9.505	0.150	0	0	0	5
PL.38308	PL.39936	B	#2 ACSR	7.41Y	123.5	0.00	1.48	1.64	1	12	3	97	0.00	0.0	9.563	0.058	12	3	2	2
PL.39937	PL.39936	B	#4 ACSR	7.41Y	123.5	0.01	1.48	3.83	3	27	8	96	0.00	0.0	9.548	0.043	4	1	1	3
PL.39313	PL.39937	B	#4 ACSR	7.41Y	123.5	0.00	1.48	1.34	1	10	3	96	0.00	0.0	9.581	0.033	10	3	1	1
PL.39938	PL.39937	B	#4 ACSR	7.41Y	123.5	0.00	1.48	1.99	2	14	4	96	0.00	0.0	9.635	0.086	14	4	1	1
PL.39346	PL.39935	B	#2 ACSR	7.41Y	123.6	0.00	1.44	0.57	0	4	1	97	0.00	0.0	9.398	0.042	4	1	1	1
PL.39939	PL.39933	B	#4 ACSR	7.41Y	123.5	0.03	1.45	7.77	6	55	16	96	0.01	0.0	9.399	0.099	0	0	0	6
PL.38310	PL.39939	B	#4 ACSR	7.41Y	123.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	9.454	0.055	0	0	0	0

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38309	PL.39939	B	#4 ACSR	7.41Y	123.5	0.00	1.45	1.24	1	9	3	95	0.00	0.0	9.448	0.049	9	3	1	1
PL.39940	PL.39939	B	#4 ACSR	7.41Y	123.5	0.02	1.47	6.54	5	47	13	96	0.01	0.0	9.482	0.083	18	5	1	5
PL.39941	PL.39940	B	#4 ACSR	7.41Y	123.5	0.01	1.48	4.02	3	29	8	96	0.00	0.0	9.511	0.029	0	0	0	4
PL.39461	PL.39941	B	#2 ACSR	7.41Y	123.5	0.00	1.48	1.84	1	13	4	96	0.00	0.0	9.551	0.040	13	4	2	2
PL.39942	PL.39941	B	#4 ACSR	7.41Y	123.5	0.01	1.48	2.17	2	15	4	97	0.00	0.0	9.589	0.078	0	0	0	2
PL.39944	PL.39942	B	#4 ACSR	7.41Y	123.5	0.00	1.48	2.17	2	15	4	97	0.00	0.0	9.615	0.026	15	4	2	2
PL.39945	PL.39944	B	#4 ACSR	7.41Y	123.5	0.00	1.48	0.00	0	0	0	100	0.00	0.0	9.764	0.150	0	0	0	0
PL.39943	PL.39942	B	#4 ACSR	7.41Y	123.5	0.00	1.48	0.00	0	0	0	100	0.00	0.0	9.634	0.045	0	0	0	0
PL.40125	PL.40126	B	#1/0 ACSR	7.42Y	123.6	0.00	1.36	4.55	2	32	9	96	0.00	0.0	9.218	0.016	0	0	0	3
PL.39360	PL.40125	B	6 A (CWC)	7.42Y	123.6	0.01	1.36	1.89	1	13	4	96	0.00	0.0	9.359	0.141	13	4	1	1
PL.64630	PL.40125	B	#1/0 ACSR	7.42Y	123.6	0.00	1.36	2.66	1	19	5	97	0.00	0.0	9.305	0.087	10	3	1	2
PL.64631	PL.64630	B	#1/0 ACSR	7.42Y	123.6	0.00	1.36	1.29	1	9	3	95	0.00	0.0	9.305	0.000	9	3	1	1
PL.39349	PL.38286	B	6 A (CWC)	7.42Y	123.7	0.01	1.26	4.78	3	34	10	96	0.00	0.0	9.031	0.031	2	1	1	5
PL.39350	PL.39349	B	6 A (CWC)	7.42Y	123.7	0.01	1.26	4.48	3	32	9	96	0.00	0.0	9.077	0.047	16	5	2	4
PL.39435	PL.39350	B	6 A (CWC)	7.42Y	123.7	0.01	1.27	2.17	2	15	4	97	0.00	0.0	9.146	0.069	0	0	0	2
PL.39436	PL.39435	B	6 A (CWC)	7.42Y	123.7	0.00	1.27	2.17	2	15	4	97	0.00	0.0	9.181	0.035	0	0	0	2
PL.39437	PL.39436	B	6 A (CWC)	7.42Y	123.7	0.00	1.28	2.17	2	15	4	97	0.00	0.0	9.246	0.065	15	4	2	2
PL.39438	PL.39437	B	6 A (CWC)	7.42Y	123.7	0.00	1.28	0.00	0	0	0	100	0.00	0.0	9.305	0.059	0	0	0	0
PL.59662	PL.59664	B	#1/0 ACSR	7.44Y	123.9	0.00	1.07	2.13	1	15	4	97	0.00	0.0	8.859	0.046	15	4	2	2
PL.40110	PL.40109	A	#1/0 ACSR	7.46Y	124.3	0.00	0.72	0.00	0	0	0	100	0.00	0.0	8.330	0.006	0	0	0	0
PD.5921	PL.40110	A	25QA	7.46Y	124.3	0.00	0.72	0.00	0	0	0	100	0.00	0.0	8.330	0.006	0	0	0	0
PL.40111	PD.5921	A	#1/0 ACSR	7.46Y	124.3	0.00	0.72	0.00	0	0	0	100	0.00	0.0	8.369	0.038	0	0	0	0
PL.39482	PL.39481	C	6 A (CWC)	7.46Y	124.3	0.00	0.69	3.29	2	24	7	96	0.00	0.0	8.255	0.006	0	0	0	2
PD.6177	PL.39482	C	25QA	7.46Y	124.3	0.00	0.69	3.29	13	24	7	96	0.00	0.0	8.255	0.006	0	0	0	2
PL.40108	PD.6177	C	6 A (CWC)	7.46Y	124.3	0.00	0.69	3.29	2	24	7	96	0.00	0.0	8.295	0.040	24	7	2	2
PL.38931	PL.39353	A	6 A (CWC)	7.46Y	124.3	0.00	0.66	12.27	9	88	25	96	0.00	0.0	8.164	0.006	0	0	0	11
PD.5924	PL.38931	A	40QA	7.46Y	124.3	0.00	0.66	12.27	31	88	25	96	0.00	0.0	8.164	0.006	0	0	0	11
PL.38932	PD.5924	A	6 A (CWC)	7.46Y	124.3	0.01	0.67	12.27	9	88	25	96	0.01	0.0	8.189	0.024	15	4	4	11
PL.39475	PL.38932	A	6 A (CWC)	7.46Y	124.3	0.01	0.68	10.14	7	73	21	96	0.01	0.0	8.216	0.027	0	0	0	7
PL.39476	PL.39475	A	#4 ACSR	7.46Y	124.3	0.00	0.69	3.32	3	24	7	96	0.00	0.0	8.249	0.033	13	4	1	4
PL.39477	PL.39476	A	#4 ACSR	7.46Y	124.3	0.00	0.69	1.51	1	11	3	96	0.00	0.0	8.268	0.019	11	3	3	3

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.39478	PL.39475	A	6 A (CWC)	7.46Y	124.3	0.01	0.69	6.82	5	49	14	96	0.00	0.0	8.260	0.044	24	7	2	3
PL.39479	PL.39478	A	6 A (CWC)	7.46Y	124.3	0.01	0.70	3.43	2	25	7	96	0.00	0.0	8.332	0.072	25	7	1	1
PL.38917	PL.61594	A	6 A (CWC)	7.47Y	124.5	0.00	0.52	4.33	3	31	9	96	0.00	0.0	7.921	0.006	0	0	0	5
PD.5940	PL.38917	A	40QA	7.47Y	124.5	0.00	0.52	4.33	11	31	9	96	0.00	0.0	7.921	0.006	0	0	0	5
PL.38918	PD.5940	A	6 A (CWC)	7.47Y	124.5	0.01	0.53	4.33	3	31	9	96	0.00	0.0	7.994	0.073	31	9	5	5
PL.39162	PL.61594	A	#2 ACSR	7.47Y	124.5	0.00	0.52	3.89	2	28	8	96	0.00	0.0	7.947	0.031	28	8	2	2
PL.38915	PL.40106	A	#4 ACSR	7.47Y	124.6	0.00	0.44	0.39	0	3	1	95	0.00	0.0	7.787	0.006	0	0	0	1
PD.6165	PL.38915	A	40QA	7.47Y	124.6	0.00	0.44	0.39	1	3	1	95	0.00	0.0	7.787	0.006	0	0	0	1
PL.38916	PD.6165	A	#4 ACSR	7.47Y	124.6	0.00	0.44	0.39	0	3	1	95	0.00	0.0	7.821	0.034	3	1	1	1
PL.58796	PL.40100	A	#1/0 ACSR	7.48Y	124.6	0.00	0.39	3.27	1	24	7	96	0.00	0.0	7.708	0.004	0	0	0	2
PD.8647	PL.58796	A	10T	7.48Y	124.6	0.00	0.39	3.27	0	24	7	96	0.00	0.0	7.708	0.004	0	0	0	2
PL.58797	PD.8647	A	#1/0 ACSR	7.48Y	124.6	0.00	0.39	3.27	1	24	7	96	0.00	0.0	7.750	0.042	24	7	2	2
PL.40103	PL.40100	C	#4 ACSR	7.48Y	124.6	0.00	0.39	1.96	2	14	4	96	0.00	0.0	7.710	0.006	0	0	0	1
PD.6183	PL.40103	C	40QA	7.48Y	124.6	0.00	0.39	1.96	5	14	4	96	0.00	0.0	7.710	0.006	0	0	0	1
PL.40104	PD.6183	C	#4 ACSR	7.48Y	124.6	0.00	0.39	1.96	2	14	4	96	0.00	0.0	7.735	0.025	14	4	1	1
PL.40101	PL.40099	A	#2 ACSR	7.48Y	124.7	0.00	0.33	3.10	2	22	6	96	0.00	0.0	7.621	0.006	0	0	0	1
PD.5942	PL.40101	A	40QA	7.48Y	124.7	0.00	0.33	3.10	8	22	6	96	0.00	0.0	7.621	0.006	0	0	0	1
PL.40102	PD.5942	A	#2 ACSR	7.48Y	124.7	0.00	0.33	3.10	2	22	6	96	0.00	0.0	7.640	0.019	22	6	1	1
PL.62531	PL.62529	A	#1/0 ACSR	7.49Y	124.8	0.00	0.16	2.17	1	16	5	95	0.00	0.0	7.366	0.002	0	0	0	2
PD.9380	PL.62531	A	20T	7.49Y	124.8	0.00	0.16	2.17	0	16	5	95	0.00	0.0	7.366	0.002	0	0	0	2
PL.62532	PD.9380	A	#1/0 ACSR	7.49Y	124.8	0.00	0.16	2.17	1	16	5	95	0.00	0.0	7.382	0.016	16	5	2	2
PL.38065	PL.38064	C	6 A (CWC)	7.50Y	124.9	0.00	0.07	3.52	3	25	7	96	0.00	0.0	7.243	0.006	0	0	0	2
PD.5936	PL.38065	C	40QA	7.50Y	124.9	0.00	0.07	3.52	9	25	7	96	0.00	0.0	7.243	0.006	0	0	0	2
PL.38067	PD.5936	C	6 A (CWC)	7.49Y	124.9	0.01	0.09	3.52	3	25	7	96	0.00	0.0	7.325	0.082	0	0	0	2
PL.38747	PL.38067	C	6 A (CWC)	7.49Y	124.9	0.00	0.09	1.95	1	14	4	96	0.00	0.0	7.380	0.055	14	4	1	1
PL.39169	PL.38067	C	6 A (CWC)	7.49Y	124.9	0.00	0.09	1.57	1	11	3	96	0.00	0.0	7.398	0.073	11	3	1	1
PL.38068	PL.38067	C	#1/0 ACSR	7.49Y	124.9	0.00	0.09	0.00	0	0	0	100	0.00	0.0	7.591	0.266	0	0	0	0
PL.38066	PL.38064	A	6 A (CWC)	7.50Y	124.9	0.00	0.07	5.49	4	39	11	96	0.00	0.0	7.243	0.006	0	0	0	4
PD.5937	PL.38066	A	40QA	7.50Y	124.9	0.00	0.07	5.49	14	39	11	96	0.00	0.0	7.243	0.006	0	0	0	4
PL.38069	PD.5937	A	6 A (CWC)	7.49Y	124.9	0.02	0.10	5.49	4	39	11	96	0.01	0.0	7.333	0.090	0	0	0	4
PL.38635	PL.38069	A	#4 ACSR	7.49Y	124.9	0.01	0.11	1.95	1	14	4	96	0.00	0.0	7.451	0.118	0	0	0	1

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38646	PL.38635	A	#4 ACSR	7.49Y	124.9	0.00	0.11	1.95	1	14	4	96	0.00	0.0	7.546	0.095	14	4	1	1
PL.38070	PL.38069	A	6 A (CWC)	7.49Y	124.9	0.03	0.12	3.54	3	25	7	96	0.00	0.0	7.575	0.243	18	5	1	3
PL.38071	PL.38070	A	6 A (CWC)	7.49Y	124.9	0.00	0.13	1.10	1	8	2	97	0.00	0.0	7.722	0.146	8	2	2	2
PL.38533	PL.38070	A	6 A (CWC)	7.49Y	124.9	0.00	0.12	0.00	0	0	0	100	0.00	0.0	7.790	0.215	0	0	0	0
PL.38059	PL.38058	A	#4 ACSR	7.09Y	118.2	0.00	6.84	4.14	3	28	8	96	0.00	0.0	6.896	0.006	0	0	0	1
PD.6197	PL.38059	A	40QA	7.09Y	118.2	0.00	6.84	4.14	10	28	8	96	0.00	0.0	6.896	0.006	0	0	0	1
PL.38060	PD.6197	A	#4 ACSR	7.09Y	118.2	0.00	6.84	4.14	3	28	8	96	0.00	0.0	6.913	0.017	28	8	1	1
PL.40074	PL.52706	C	#1/0 ACSR	7.09Y	118.2	0.00	6.78	20.97	9	143	41	96	0.00	0.0	6.822	0.006	0	0	0	16
PD.5938	PL.40074	C	40QA	7.09Y	118.2	0.00	6.78	20.97	52	143	41	96	0.00	0.0	6.822	0.006	0	0	0	16
PL.40075	PD.5938	C	#1/0 ACSR	7.09Y	118.2	0.02	6.80	20.97	9	143	41	96	0.02	0.0	6.866	0.043	16	4	2	16
PL.37597	PL.40075	C	#1/0 ACSR	7.09Y	118.2	0.02	6.81	18.70	8	127	37	96	0.01	0.0	6.908	0.042	14	4	1	14
REG49	PL.37597	C	76.2 KVA	7.51Y	125.2	-7.04	-0.23	16.64	17	113	33	96	percent Boost= 0.00			Tap= 0.0				13
PL.37598	REG49	C	#1/0 ACSR	7.51Y	125.2	0.04	-0.19	15.70	7	113	33	96	0.03	0.0	7.036	0.129	14	4	2	13
PL.37599	PL.37598	C	#1/0 ACSR	7.51Y	125.2	0.01	-0.17	13.70	6	99	29	96	0.01	0.0	7.071	0.035	5	1	1	11
PL.39390	PL.37599	C	#4 ACSR	7.51Y	125.2	0.00	-0.17	0.00	0	0	0	100	0.00	0.0	7.203	0.132	0	0	1	1
PL.63354	PL.37599	C	#1/0 ACSR	7.51Y	125.1	0.04	-0.14	13.05	6	94	27	96	0.02	0.0	7.217	0.146	23	7	2	9
PL.63355	PL.63354	C	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	0.01	0	0	0	100	0.00	0.0	7.221	0.004	0	0	0	1
PD.9465	PL.63355	C	10T	7.51Y	125.1	0.00	-0.14	0.01	0	0	0	100	0.00	0.0	7.221	0.004	0	0	0	1
PL.63356	PD.9465	C	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	0.01	0	0	0	100	0.00	0.0	7.286	0.066	0	0	0	1
PL.63357	PL.63356	C	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	0.01	0	0	0	100	0.00	0.0	7.318	0.032	0	0	0	1
PL.63358	PL.63357	C	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	0.01	0	0	0	100	0.00	0.0	7.371	0.053	0	0	1	1
PL.37600	PL.63354	C	6 A (CWC)	7.51Y	125.1	0.03	-0.10	9.83	7	71	21	96	0.02	0.0	7.292	0.075	0	0	0	6
PL.38051	PL.37600	C	6 A (CWC)	7.50Y	125.1	0.02	-0.08	9.83	7	71	21	96	0.01	0.0	7.335	0.044	0	0	0	6
PL.39079	PL.38051	C	#4 ACSR	7.50Y	125.1	0.00	-0.08	0.00	0	0	0	100	0.00	0.0	7.396	0.061	0	0	0	0
PL.38052	PL.38051	C	6 A (CWC)	7.50Y	125.1	0.02	-0.06	9.83	7	71	21	96	0.01	0.0	7.392	0.057	21	6	1	6
PL.38055	PL.38052	C	6 A (CWC)	7.50Y	125.0	0.02	-0.04	5.23	4	38	11	96	0.00	0.0	7.490	0.098	14	4	1	4
PL.38056	PL.38055	C	6 A (CWC)	7.50Y	125.0	0.01	-0.03	3.30	2	24	7	96	0.00	0.0	7.579	0.088	17	5	1	3
PL.38057	PL.38056	C	6 A (CWC)	7.50Y	125.0	0.00	-0.03	0.92	1	7	2	96	0.00	0.0	7.659	0.080	7	2	2	2
PL.38053	PL.38052	C	#4 ACSR	7.50Y	125.1	0.00	-0.06	1.74	1	13	4	96	0.00	0.0	7.420	0.028	13	4	1	1
PL.38054	PL.38053	C	#4 ACSR	7.50Y	125.1	0.00	-0.06	0.00	0	0	0	100	0.00	0.0	7.535	0.115	0	0	0	0
PL.39527	PL.38054	C	#4 ACSR	7.50Y	125.1	0.00	-0.06	0.00	0	0	0	100	0.00	0.0	7.646	0.111	0	0	0	0

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
CP.82	PL.52705	ABC	Cap (300)	7.10Y	118.3	0.00	6.74	0.00	0	0	0	100	0.00	0.0	6.780	0.111	0	0	0	0
PL.38840	PL.38839	ABC	6 A (CWC)	7.10Y	118.3	0.00	6.69	0.05	0	1	0	100	0.00	0.0	6.746	0.019	0	0	0	2
PL.38841	PL.38840	ABC	6 A (CWC)	7.10Y	118.3	0.00	6.69	0.05	0	1	0	100	0.00	0.0	6.791	0.045	1	0	1	2
PL.38842	PL.38841	ABC	6 A (CWC)	7.10Y	118.3	0.00	6.69	0.01	0	0	0	100	0.00	0.0	6.812	0.020	0	0	1	1
PL.40073	PL.38842	ABC	6 A (CWC)	7.10Y	118.3	0.00	6.69	0.00	0	0	0	100	0.00	0.0	6.827	0.015	0	0	0	0
PL.38756	PL.40070	A	6 A (CWC)	7.13Y	118.9	0.00	6.11	5.96	4	41	12	96	0.00	0.0	6.234	0.006	0	0	0	4
PD.5933	PL.38756	A	50QA	7.13Y	118.9	0.00	6.11	5.96	12	41	12	96	0.00	0.0	6.234	0.006	0	0	0	4
PL.38757	PD.5933	A	6 A (CWC)	7.13Y	118.8	0.07	6.19	5.96	4	41	12	96	0.02	0.1	6.549	0.315	11	3	2	4
PL.38758	PL.38757	A	6 A (CWC)	7.13Y	118.8	0.01	6.20	4.33	3	30	9	96	0.00	0.0	6.602	0.053	0	0	0	2
PL.63077	PL.38758	A	6 A (CWC)	7.13Y	118.8	0.00	6.20	2.45	2	17	5	96	0.00	0.0	6.689	0.087	17	5	1	1
PL.38759	PL.38758	A	6 A (CWC)	7.13Y	118.8	0.01	6.21	1.88	1	13	4	96	0.00	0.0	6.743	0.142	13	4	1	1
PL.40071	PL.40069	A	#4 ACSR	7.14Y	118.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	6.132	0.006	0	0	0	0
PD.5934	PL.40071	A	50QA	7.14Y	118.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	6.132	0.006	0	0	0	0
PL.40072	PD.5934	A	#4 ACSR	7.14Y	118.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	6.170	0.039	0	0	0	0
PL.38961	PL.40066	C	#2 ACSR	7.14Y	119.0	0.00	5.96	1.62	1	11	3	96	0.00	0.0	5.994	0.048	11	3	1	1
PL.39153	PL.40065	C	#2 ACSR	7.14Y	119.1	0.00	5.92	2.64	2	18	5	96	0.00	0.0	5.913	0.024	18	5	1	1
PL.38312	PL.56530	C	#2 ACSR	7.15Y	119.1	0.00	5.87	5.88	3	40	12	96	0.00	0.0	5.810	0.006	0	0	0	3
PD.5925	PL.38312	C	40QA	7.15Y	119.1	0.00	5.87	5.88	15	40	12	96	0.00	0.0	5.810	0.006	0	0	0	3
PL.38612	PD.5925	C	#2 ACSR	7.15Y	119.1	0.01	5.88	5.88	3	40	12	96	0.00	0.0	5.874	0.064	15	4	1	3
PL.38613	PL.38612	C	#2 ACSR	7.15Y	119.1	0.00	5.89	3.69	2	25	7	96	0.00	0.0	5.945	0.071	25	7	2	2
PL.64626	PL.38613	C	#1/0 ACSR	7.15Y	119.1	0.00	5.89	0.00	0	0	0	100	0.00	0.0	6.011	0.066	0	0	0	0
PL.64627	PL.64626	C	#1/0 ACSR	7.15Y	119.1	0.00	5.89	0.00	0	0	0	100	0.00	0.0	6.085	0.074	0	0	0	0
PL.56527	PL.56526	C	#2 ACSR	7.15Y	119.2	0.00	5.80	0.00	0	0	0	100	0.00	0.0	5.733	0.042	0	0	0	0
PL.38535	PL.38534	A	#1/0 ACSR	7.16Y	119.3	0.00	5.74	1.92	1	13	4	96	0.00	0.0	5.591	0.006	0	0	0	1
PD.5926	PL.38535	A	40QA	7.16Y	119.3	0.00	5.74	1.92	5	13	4	96	0.00	0.0	5.591	0.006	0	0	0	1
PL.38388	PD.5926	A	#1/0 ACSR	7.16Y	119.3	0.00	5.74	1.92	1	13	4	96	0.00	0.0	5.600	0.009	13	4	1	1
PL.40063	PL.56480	C	#2 ACSR	7.16Y	119.4	0.00	5.60	1.22	1	8	2	97	0.00	0.0	5.365	0.006	0	0	0	2
PD.6178	PL.40063	C	40QA	7.16Y	119.4	0.00	5.60	1.22	3	8	2	97	0.00	0.0	5.365	0.006	0	0	0	2
PL.40064	PD.6178	C	#2 ACSR	7.16Y	119.4	0.00	5.60	1.22	1	8	2	97	0.00	0.0	5.382	0.018	8	2	2	2
PL.56477	PL.56478	A	6 A (CWC)	7.17Y	119.4	0.00	5.56	0.00	0	0	0	100	0.00	0.0	5.339	0.041	0	0	0	0
PL.56479	PL.56478	A	#4 ACSR	7.17Y	119.4	0.00	5.56	1.39	1	10	3	96	0.00	0.0	5.303	0.006	0	0	0	1

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.5927	PL.56479	A	40QA	7.17Y	119.4	0.00	5.56	1.39	3	10	3	96	0.00	0.0	5.303	0.006	0	0	0	1
PL.40062	PD.5927	A	#4 ACSR	7.17Y	119.4	0.00	5.56	1.39	1	10	3	96	0.00	0.0	5.378	0.075	10	3	1	1
PL.59656	PL.59655	A	#1/0 ACSR	7.19Y	119.8	0.00	5.21	1.83	1	13	4	96	0.00	0.0	4.786	0.006	0	0	0	2
PD.6275	PL.59656	A	40QA	7.19Y	119.8	0.00	5.21	1.83	5	13	4	96	0.00	0.0	4.786	0.006	0	0	0	2
PL.40454	PD.6275	A	#1/0 ACSR	7.19Y	119.8	0.00	5.21	1.83	1	13	4	96	0.00	0.0	4.805	0.019	13	4	2	2
PL.40940	PL.63337	C	#2 ACSR	7.20Y	119.9	0.00	5.08	1.47	1	10	3	96	0.00	0.0	4.613	0.006	0	0	0	1
PD.6276	PL.40940	C	40QA	7.20Y	119.9	0.00	5.08	1.47	4	10	3	96	0.00	0.0	4.613	0.006	0	0	0	1
PL.40453	PD.6276	C	#2 ACSR	7.20Y	119.9	0.00	5.08	1.47	1	10	3	96	0.00	0.0	4.643	0.030	10	3	1	1
PL.40292	PL.40291	A	#1/0 ACSR	7.23Y	120.6	0.00	4.42	0.96	0	7	2	96	0.00	0.0	3.760	0.006	0	0	0	4
PD.6243	PL.40292	A	40QA	7.23Y	120.6	0.00	4.42	0.96	2	7	2	96	0.00	0.0	3.760	0.006	0	0	0	4
PL.40293	PD.6243	A	#1/0 ACSR	7.23Y	120.6	0.00	4.42	0.96	0	7	2	96	0.00	0.0	3.794	0.034	7	2	4	4
PL.40664	PL.40639	AB	#1/0 ACSR	7.24Y	120.7	0.02	4.31	22.45	10	312	92	96	0.03	0.0	3.689	0.034	7	2	1	40
PL.40665	PL.40664	AB	#1/0 ACSR	7.24Y	120.7	0.03	4.34	21.95	10	305	90	96	0.06	0.0	3.756	0.067	0	0	0	39
PL.59171	PL.40665	AB	#1/0 ACSR	7.24Y	120.7	0.00	4.34	21.95	10	305	90	96	0.00	0.0	3.759	0.003	0	0	0	39
PD.8807	PL.59171	AB	50L	7.24Y	120.7	0.00	4.34	21.95	44	305	90	96	0.00	0.0	3.759	0.003	0	0	0	39
PL.60831	PD.8807	AB	#1/0 ACSR	7.24Y	120.6	0.05	4.39	21.95	10	305	90	96	0.10	0.0	3.866	0.108	0	0	0	39
PL.60832	PL.60831	AB	#1/0 ACSR	7.24Y	120.6	0.02	4.41	21.00	9	292	86	96	0.04	0.0	3.910	0.044	6	2	1	38
PL.59170	PL.60832	AB	#1/0 ACSR	7.23Y	120.6	0.04	4.45	20.60	9	286	84	96	0.08	0.0	4.013	0.102	17	5	1	37
PL.59208	PL.59170	B	#2 ACSR	7.23Y	120.6	0.00	4.45	2.24	1	16	5	95	0.00	0.0	4.018	0.006	0	0	0	1
PD.6348	PL.59208	B	40QA	7.23Y	120.6	0.00	4.45	2.24	6	16	5	95	0.00	0.0	4.018	0.006	0	0	0	1
PL.40666	PD.6348	B	#2 ACSR	7.23Y	120.5	0.00	4.45	2.24	1	16	5	95	0.00	0.0	4.073	0.055	16	5	1	1
PL.40822	PL.40666	B	#2 ACSR	7.23Y	120.5	0.00	4.45	0.00	0	0	0	100	0.00	0.0	4.101	0.027	0	0	0	0
PL.59210	PL.59170	B	#1/0 ACSR	7.23Y	120.6	0.00	4.45	1.45	1	10	3	96	0.00	0.0	4.040	0.027	0	0	0	1
PD.8674	PL.59210	B	12T	7.23Y	120.6	0.00	4.45	1.45	0	10	3	96	0.00	0.0	4.040	0.027	0	0	0	1
PL.59211	PD.8674	B	#1/0 ACSR	7.23Y	120.5	0.00	4.45	1.45	1	10	3	96	0.00	0.0	4.166	0.126	0	0	0	1
PL.59212	PL.59211	B	1/0 AL URD	7.23Y	120.5	0.00	4.46	1.45	1	10	3	96	0.00	0.0	4.256	0.090	0	0	0	1
PD.8675	PL.59212	B	100CodeSMo	7.23Y	120.5	0.00	4.46	1.45	0	10	3	96	0.00	0.0	4.256	0.090	0	0	0	1
PL.59213	PD.8675	B	1/0 AL URD	7.23Y	120.5	0.00	4.46	1.45	1	10	3	96	0.00	0.0	4.339	0.083	10	3	1	1
PL.59209	PL.59170	AB	#1/0 ACSR	7.23Y	120.5	0.04	4.49	17.56	8	244	72	96	0.07	0.0	4.126	0.113	0	0	0	34
PL.40667	PL.59209	AB	#1/0 ACSR	7.23Y	120.5	0.03	4.52	17.56	8	244	72	96	0.05	0.0	4.214	0.088	0	0	0	34
PL.64325	PL.40667	A	#1/0 ACSR	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	4.258	0.044	0	0	0	0

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.64566	PL.40667	AB	#1/0 ACSR	7.23Y	120.4	0.06	4.58	17.56	8	244	72	96	0.10	0.0	4.376	0.162	0	0	0	34
PL.64568	PL.64566	A	#1/0 ACSR	7.23Y	120.4	0.00	4.58	1.19	1	8	2	97	0.00	0.0	4.418	0.042	8	2	1	1
PL.64567	PL.64566	AB	#1/0 ACSR	7.22Y	120.4	0.02	4.60	16.97	7	235	69	96	0.03	0.0	4.437	0.060	4	1	1	33
PL.64565	PL.64567	AB	#1/0 ACSR	7.22Y	120.4	0.02	4.63	16.67	7	231	68	96	0.03	0.0	4.499	0.062	0	0	0	32
PL.40668	PL.64565	AB	#1/0 ACSR	7.22Y	120.3	0.05	4.67	15.46	7	214	63	96	0.07	0.0	4.643	0.145	11	3	1	29
PL.40672	PL.40668	AB	#1/0 ACSR	7.22Y	120.3	0.02	4.70	14.68	6	203	60	96	0.03	0.0	4.724	0.080	4	1	1	28
PL.40673	PL.40672	AB	#1/0 ACSR	7.22Y	120.3	0.02	4.72	14.37	6	199	58	96	0.03	0.0	4.791	0.067	0	0	0	27
PL.40674	PL.40673	AB	#1/0 ACSR	7.22Y	120.3	0.01	4.72	13.15	6	182	54	96	0.01	0.0	4.812	0.022	10	3	1	26
PL.39684	PL.40674	AB	#1/0 ACSR	7.21Y	120.2	0.09	4.81	12.41	5	172	51	96	0.10	0.1	5.149	0.337	0	0	0	25
PL.39686	PL.39684	A	#2 ACSR	7.21Y	120.2	0.00	4.81	0.00	0	0	0	100	0.00	0.0	5.155	0.006	0	0	0	0
PD.6242	PL.39686	A	40QA	7.21Y	120.2	0.00	4.81	0.00	0	0	0	100	0.00	0.0	5.155	0.006	0	0	0	0
PL.39687	PD.6242	A	#2 ACSR	7.21Y	120.2	0.00	4.81	0.00	0	0	0	100	0.00	0.0	5.163	0.008	0	0	0	0
PL.39685	PL.39684	AB	#1/0 ACSR	7.21Y	120.2	0.02	4.82	12.41	5	172	50	96	0.02	0.0	5.208	0.059	0	0	0	25
PL.39688	PL.39685	A	#2 ACSR	7.21Y	120.2	0.00	4.82	3.62	2	25	7	96	0.00	0.0	5.214	0.006	0	0	0	1
PD.6347	PL.39688	A	40QA	7.21Y	120.2	0.00	4.82	3.62	9	25	7	96	0.00	0.0	5.214	0.006	0	0	0	1
PL.39689	PD.6347	A	#2 ACSR	7.21Y	120.2	0.00	4.83	3.62	2	25	7	96	0.00	0.0	5.275	0.061	25	7	1	1
PL.39690	PL.39685	AB	#1/0 ACSR	7.21Y	120.2	0.02	4.84	10.60	5	147	43	96	0.02	0.0	5.298	0.090	0	0	1	24
PL.39691	PL.39690	AB	#1/0 ACSR	7.20Y	120.0	0.12	4.96	10.58	5	146	43	96	0.12	0.1	5.821	0.522	0	0	0	23
PL.39692	PL.39691	AB	#1/0 ACSR	7.20Y	120.0	0.01	4.97	10.58	5	146	43	96	0.01	0.0	5.865	0.044	0	0	0	23
PL.39693	PL.39692	AB	#1/0 ACSR	7.20Y	120.0	0.06	5.03	10.58	5	146	43	96	0.06	0.0	6.157	0.293	0	0	0	23
PL.39694	PL.39693	A	#2 ACSR	7.20Y	120.0	0.00	5.03	0.17	0	1	0	100	0.00	0.0	6.163	0.006	0	0	0	2
PD.6241	PL.39694	A	40QA	7.20Y	120.0	0.00	5.03	0.17	0	1	0	100	0.00	0.0	6.163	0.006	0	0	0	2
PL.40443	PD.6241	A	#2 ACSR	7.20Y	120.0	0.00	5.03	0.17	0	1	0	100	0.00	0.0	6.282	0.119	1	0	2	2
PL.40444	PL.40443	A	#2 ACSR	7.20Y	120.0	0.00	5.03	0.00	0	0	0	100	0.00	0.0	6.345	0.063	0	0	0	0
PL.40445	PL.39693	AB	#1/0 ACSR	7.20Y	119.9	0.03	5.06	10.49	5	145	42	96	0.03	0.0	6.288	0.131	0	0	0	21
PL.40446	PL.40445	AB	#1/0 ACSR	7.19Y	119.9	0.03	5.09	10.49	5	145	42	96	0.03	0.0	6.428	0.140	0	0	0	21
PL.40447	PL.40446	AB	#1/0 ACSR	7.19Y	119.9	0.02	5.11	10.49	5	145	42	96	0.02	0.0	6.503	0.075	0	0	0	21
PL.40508	PL.40447	A	#1/0 ACSR	7.19Y	119.9	0.00	5.11	17.23	7	119	35	96	0.00	0.0	6.509	0.006	0	0	0	17
PD.6378	PL.40508	A	100CodeSMo	7.19Y	119.9	0.00	5.11	17.23	0	119	35	96	0.00	0.0	6.509	0.006	0	0	0	17
PL.40509	PD.6378	A	#1/0 ACSR	7.19Y	119.8	0.04	5.15	17.23	7	119	35	96	0.03	0.0	6.603	0.094	0	0	0	17
PL.40620	PL.40509	A	#1/0 ACSR	7.19Y	119.8	0.03	5.19	17.23	7	119	35	96	0.03	0.0	6.683	0.081	0	0	0	17

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40623	PL.40620	A	#1/0 ACSR	7.18Y	119.7	0.15	5.33	14.80	6	102	30	96	0.10	0.1	7.088	0.404	0	0	0	15
PL.40751	PL.40623	A	6 A (CWC)	7.18Y	119.7	0.00	5.33	0.00	0	0	0	100	0.00	0.0	7.204	0.116	0	0	1	1
PL.40624	PL.40623	A	#1/0 ACSR	7.18Y	119.6	0.03	5.36	14.80	6	102	30	96	0.02	0.0	7.181	0.093	0	0	0	14
PL.40625	PL.40624	A	#1/0 ACSR	7.16Y	119.4	0.24	5.60	14.76	6	102	30	96	0.16	0.2	7.838	0.657	0	0	0	13
PL.40298	PL.40625	A	6 A (CWC)	7.16Y	119.4	0.03	5.63	4.11	3	28	8	96	0.01	0.0	7.990	0.152	0	0	0	4
PL.40626	PL.40298	A	6 A (CWC)	7.16Y	119.3	0.02	5.65	1.64	1	11	3	96	0.00	0.0	8.325	0.335	2	1	1	2
PL.40754	PL.40626	A	#2 ACSR	7.16Y	119.3	0.00	5.65	1.34	1	9	3	95	0.00	0.0	8.441	0.117	9	3	1	1
PL.40627	PL.40626	A	6 A (CWC)	7.16Y	119.3	0.00	5.65	0.00	0	0	0	100	0.00	0.0	8.723	0.399	0	0	0	0
PL.40299	PL.40627	A	#4 ACSR	7.16Y	119.3	0.00	5.65	0.00	0	0	0	100	0.00	0.0	8.948	0.224	0	0	0	0
PL.40628	PL.40298	A	6 A (CWC)	7.16Y	119.4	0.02	5.65	2.47	2	17	5	96	0.00	0.0	8.148	0.158	0	0	0	2
PL.40745	PL.40628	A	6 A (CWC)	7.16Y	119.4	0.00	5.65	1.06	1	7	2	96	0.00	0.0	8.189	0.041	7	2	1	1
PL.40629	PL.40628	A	6 A (CWC)	7.16Y	119.3	0.01	5.65	1.41	1	10	3	96	0.00	0.0	8.310	0.162	10	3	1	1
PL.40302	PL.40625	A	#1/0 ACSR	7.15Y	119.2	0.16	5.76	10.64	5	73	21	96	0.08	0.1	8.437	0.599	0	0	0	9
PL.62507	PL.40302	A	#4 ACSR	7.15Y	119.2	0.00	5.76	4.15	3	28	8	96	0.00	0.0	8.438	0.001	0	0	0	4
PD.9371	PL.62507	A	20T	7.15Y	119.2	0.00	5.76	4.15	0	28	8	96	0.00	0.0	8.438	0.001	0	0	0	4
PL.62508	PD.9371	A	#4 ACSR	7.15Y	119.2	0.06	5.82	4.15	3	28	8	96	0.01	0.0	8.765	0.327	0	0	0	4
PL.40412	PL.62508	A	#4 ACSR	7.15Y	119.2	0.00	5.82	0.00	0	0	0	100	0.00	0.0	8.829	0.064	0	0	0	0
PL.40933	PL.62508	A	#4 ACSR	7.15Y	119.2	0.03	5.84	4.15	3	28	8	96	0.01	0.0	8.906	0.141	0	0	0	4
PL.40819	PL.40933	A	#4 ACSR	7.15Y	119.2	0.00	5.85	1.26	1	9	3	95	0.00	0.0	8.953	0.047	0	0	0	1
PL.40934	PL.40819	A	#4 ACSR	7.15Y	119.2	0.00	5.85	1.26	1	9	3	95	0.00	0.0	9.017	0.064	0	0	0	1
PL.40935	PL.40934	A	#4 ACSR	7.15Y	119.2	0.00	5.85	0.00	0	0	0	100	0.00	0.0	9.244	0.227	0	0	0	0
PL.40248	PL.40934	A	#4 ACSR	7.15Y	119.1	0.00	5.85	1.26	1	9	3	95	0.00	0.0	9.068	0.051	9	3	1	1
PL.40630	PL.40933	A	#4 ACSR	7.15Y	119.1	0.01	5.85	2.89	2	20	6	96	0.00	0.0	9.004	0.098	9	3	1	3
PL.40631	PL.40630	A	#4 ACSR	7.15Y	119.1	0.00	5.85	1.53	1	11	3	96	0.00	0.0	9.034	0.030	0	0	0	2
PL.40932	PL.40631	A	#4 ACSR	7.15Y	119.1	0.00	5.86	1.53	1	11	3	96	0.00	0.0	9.082	0.048	11	3	1	1
PL.40326	PL.40631	A	#1/0 ACSR	7.15Y	119.1	0.00	5.85	0.00	0	0	0	100	0.00	0.0	9.077	0.043	0	0	1	1
PL.40936	PL.40302	A	#1/0 ACSR	7.15Y	119.2	0.02	5.78	6.50	3	45	13	96	0.01	0.0	8.581	0.145	0	0	0	5
PL.40937	PL.40936	A	#1/0 ACSR	7.15Y	119.2	0.04	5.82	6.50	3	45	13	96	0.01	0.0	8.830	0.248	0	0	0	5
PL.40247	PL.40937	A	#4 ACSR	7.15Y	119.2	0.00	5.82	0.00	0	0	0	100	0.00	0.0	8.954	0.125	0	0	0	0
PL.40938	PL.40937	A	#1/0 ACSR	7.15Y	119.2	0.02	5.84	6.50	3	45	13	96	0.01	0.0	8.962	0.133	4	1	1	5
PL.40939	PL.40938	A	#1/0 ACSR	7.15Y	119.1	0.06	5.90	5.90	3	40	12	96	0.01	0.0	9.726	0.763	36	10	2	4

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.59222	PL.40939	A	#1/0 ACSR	7.15Y	119.1	0.00	5.90	0.64	0	4	1	97	0.00	0.0	9.830	0.104	4	1	2	2
PL.59223	PL.59222	A	6 A (CWC)	7.15Y	119.1	0.00	5.90	0.00	0	0	0	100	0.00	0.0	10.602	0.773	0	0	0	0
PL.40309	PL.40624	A	6 A (CWC)	7.18Y	119.6	0.00	5.37	0.04	0	0	0	100	0.00	0.0	7.326	0.146	0	0	1	1
PL.40621	PL.40620	A	6 A (CWC)	7.19Y	119.8	0.01	5.20	2.43	2	17	5	96	0.00	0.0	6.873	0.190	17	5	1	2
PL.40622	PL.40621	A	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.00	0	0	0	100	0.00	0.0	6.933	0.060	0	0	1	1
PL.40448	PL.40447	B	#1/0 ACSR	7.19Y	119.9	0.00	5.11	3.76	2	26	8	96	0.00	0.0	6.509	0.006	0	0	0	4
PD.6377	PL.40448	B	100CodeSMo	7.19Y	119.9	0.00	5.11	3.76	0	26	8	96	0.00	0.0	6.509	0.006	0	0	0	4
PL.40507	PD.6377	B	#1/0 ACSR	7.19Y	119.9	0.01	5.12	3.76	2	26	8	96	0.00	0.0	6.633	0.124	0	0	0	4
PL.40533	PL.40507	B	#1/0 ACSR	7.19Y	119.9	0.01	5.13	3.76	2	26	8	96	0.00	0.0	6.723	0.090	7	2	1	4
PL.40297	PL.40533	B	6 A (CWC)	7.19Y	119.9	0.00	5.13	0.23	0	2	0	100	0.00	0.0	6.755	0.032	2	0	1	1
PL.40534	PL.40533	B	#1/0 ACSR	7.19Y	119.9	0.01	5.14	2.58	1	18	5	96	0.00	0.0	6.917	0.194	0	0	0	2
PL.40535	PL.40534	B	#4 ACSR	7.19Y	119.9	0.00	5.14	1.83	1	13	4	96	0.00	0.0	6.938	0.022	13	4	1	1
PL.40536	PL.40535	B	#4 ACSR	7.19Y	119.9	0.00	5.14	0.00	0	0	0	100	0.00	0.0	6.964	0.026	0	0	0	0
PL.40537	PL.40534	B	6 A (CWC)	7.19Y	119.8	0.01	5.15	0.75	1	5	2	93	0.00	0.0	7.241	0.324	0	0	0	1
PL.40538	PL.40537	B	6 A (CWC)	7.19Y	119.8	0.02	5.17	0.75	1	5	2	93	0.00	0.0	7.887	0.646	0	0	0	1
PL.40677	PL.40538	B	6 A (CWC)	7.19Y	119.8	0.02	5.20	0.75	1	5	2	93	0.00	0.0	8.483	0.596	0	0	0	1
PL.40678	PL.40677	B	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.75	1	5	2	93	0.00	0.0	8.590	0.107	0	0	0	1
PL.40679	PL.40678	B	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.75	1	5	2	93	0.00	0.0	8.711	0.121	0	0	0	1
PL.40682	PL.40679	B	6 A (CWC)	7.19Y	119.8	0.00	5.21	0.75	1	5	2	93	0.00	0.0	8.815	0.104	5	2	1	1
PL.40680	PL.40679	B	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.00	0	0	0	100	0.00	0.0	8.717	0.006	0	0	0	0
PD.6365	PL.40680	B	75QA	7.19Y	119.8	0.00	5.20	0.00	0	0	0	100	0.00	0.0	8.717	0.006	0	0	0	0
PL.40681	PD.6365	B	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.00	0	0	0	100	0.00	0.0	9.302	0.585	0	0	0	0
PL.40249	PL.40677	B	#4 ACSR	7.19Y	119.8	0.00	5.20	0.00	0	0	0	100	0.00	0.0	8.981	0.499	0	0	0	0
PL.40301	PL.40538	B	6 A (CWC)	7.19Y	119.8	0.00	5.17	0.00	0	0	0	100	0.00	0.0	7.959	0.073	0	0	0	0
PL.40331	PL.40537	B	#4 ACSR	7.19Y	119.8	0.00	5.15	0.00	0	0	0	100	0.00	0.0	7.297	0.056	0	0	0	0
PL.40675	PL.40673	A	#2 ACSR	7.22Y	120.3	0.00	4.72	2.43	1	17	5	96	0.00	0.0	4.796	0.006	0	0	0	1
PD.6240	PL.40675	A	40QA	7.22Y	120.3	0.00	4.72	2.43	6	17	5	96	0.00	0.0	4.796	0.006	0	0	0	1
PL.40676	PD.6240	A	#2 ACSR	7.22Y	120.3	0.00	4.72	2.43	1	17	5	96	0.00	0.0	4.923	0.127	17	5	1	1
PL.40670	PL.64565	B	#2 ACSR	7.22Y	120.4	0.00	4.63	2.42	1	17	5	96	0.00	0.0	4.504	0.006	0	0	0	3
PD.6366	PL.40670	B	40QA	7.22Y	120.4	0.00	4.63	2.42	6	17	5	96	0.00	0.0	4.504	0.006	0	0	0	3
PL.40671	PD.6366	B	#2 ACSR	7.22Y	120.4	0.00	4.63	2.42	1	17	5	96	0.00	0.0	4.538	0.034	7	2	1	3

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Balanced Voltage Drop Report
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Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40669	PL.40671	B	#2 ACSR	7.22Y	120.4	0.00	4.63	1.48	1	10	3	96	0.00	0.0	4.580	0.042	10	3	2	2
PL.64323	PL.40667	B	#2 ACSR	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	4.220	0.006	0	0	0	0
PD.9531	PL.64323	B	40QA	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	4.220	0.006	0	0	0	0
PL.64324	PD.9531	B	#2 ACSR	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	4.243	0.023	0	0	0	0
PL.60833	PL.60831	A	#1/0 ACSR	7.24Y	120.6	0.00	4.39	1.89	1	13	4	96	0.00	0.0	3.870	0.003	0	0	0	1
PD.9056	PL.60833	A	10T	7.24Y	120.6	0.00	4.39	1.89	0	13	4	96	0.00	0.0	3.870	0.003	0	0	0	1
PL.60834	PD.9056	A	#1/0 ACSR	7.24Y	120.6	0.00	4.39	1.89	1	13	4	96	0.00	0.0	3.897	0.028	13	4	1	1
PL.60740	PL.40639	C	#2 ACSR	7.24Y	120.7	0.00	4.29	1.67	1	12	3	97	0.00	0.0	3.695	0.039	0	0	0	1
PL.60741	PL.60740	C	#1/0 ACSR	7.24Y	120.7	0.00	4.29	1.67	1	12	3	97	0.00	0.0	3.713	0.019	12	3	1	1
PL.52806	PL.52805	A	#4 ACSR	7.27Y	121.1	0.01	3.89	19.88	15	139	40	96	0.01	0.0	3.270	0.006	0	0	0	24
PD.6381	PL.52806	A	50L	7.27Y	121.1	0.00	3.89	19.88	40	139	40	96	0.00	0.0	3.270	0.006	0	0	0	24
PL.40480	PD.6381	A	#4 ACSR	7.26Y	120.9	0.16	4.05	19.88	15	139	40	96	0.17	0.1	3.452	0.182	5	1	1	24
PL.40481	PL.40480	A	#4 ACSR	7.26Y	120.9	0.03	4.08	19.22	15	134	39	96	0.03	0.0	3.482	0.030	1	0	1	23
PL.40370	PL.40481	A	#4 ACSR	7.25Y	120.8	0.11	4.18	19.14	15	133	39	96	0.11	0.1	3.605	0.123	0	0	0	22
PL.40371	PL.40370	A	#4 ACSR	7.25Y	120.8	0.04	4.22	19.14	15	133	39	96	0.04	0.0	3.653	0.048	17	5	1	22
PL.40372	PL.40371	A	#4 ACSR	7.24Y	120.7	0.10	4.32	16.68	13	116	34	96	0.08	0.1	3.795	0.142	15	4	2	21
PL.40373	PL.40372	A	#4 ACSR	7.23Y	120.6	0.11	4.43	14.52	11	101	29	96	0.08	0.1	3.962	0.167	0	0	0	19
PL.40374	PL.40373	A	#4 ACSR	7.23Y	120.5	0.03	4.46	13.94	11	97	28	96	0.02	0.0	4.008	0.046	1	0	1	18
PL.40375	PL.40374	A	#4 ACSR	7.23Y	120.5	0.04	4.50	13.73	11	95	28	96	0.03	0.0	4.079	0.070	0	0	0	17
PL.40233	PL.40375	A	6 A (CWC)	7.22Y	120.4	0.11	4.61	11.78	8	82	24	96	0.07	0.1	4.287	0.208	1	0	1	14
PL.40234	PL.40233	A	6 A (CWC)	7.22Y	120.3	0.07	4.68	11.66	8	81	23	96	0.04	0.0	4.415	0.129	9	3	1	13
PL.40235	PL.40234	A	6 A (CWC)	7.22Y	120.3	0.03	4.70	10.40	7	72	21	96	0.01	0.0	4.469	0.054	0	0	0	12
PL.40236	PL.40235	A	6 A (CWC)	7.22Y	120.3	0.03	4.73	10.40	7	72	21	96	0.01	0.0	4.524	0.055	0	0	0	12
PL.40174	PL.40236	A	#4 ACSR	7.22Y	120.3	0.00	4.73	2.48	2	17	5	96	0.00	0.0	4.589	0.065	17	5	1	1
PL.40237	PL.40236	A	6 A (CWC)	7.21Y	120.2	0.04	4.78	7.92	6	55	16	96	0.02	0.0	4.648	0.124	0	0	1	11
PL.40238	PL.40237	A	6 A (CWC)	7.21Y	120.2	0.03	4.80	7.85	6	54	16	96	0.01	0.0	4.735	0.086	15	4	2	10
PL.40239	PL.40238	A	6 A (CWC)	7.21Y	120.2	0.03	4.83	5.72	4	40	11	96	0.01	0.0	4.836	0.101	0	0	0	8
PL.40241	PL.40239	A	6 A (CWC)	7.21Y	120.2	0.01	4.84	2.48	2	17	5	96	0.00	0.0	4.908	0.072	9	3	1	4
PL.59243	PL.40241	A	6 A (CWC)	7.21Y	120.2	0.00	4.84	1.20	1	8	2	97	0.00	0.0	5.037	0.129	8	2	3	3
PL.40240	PL.40239	A	6 A (CWC)	7.21Y	120.2	0.01	4.83	3.24	2	22	7	95	0.00	0.0	4.887	0.052	13	4	1	4
PL.40242	PL.40240	A	6 A (CWC)	7.21Y	120.2	0.01	4.84	1.40	1	10	3	96	0.00	0.0	5.028	0.141	0	0	0	3

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.40243	PL.40242	A	6 A (CWC)	7.21Y	120.2	0.00	4.85	1.40	1	10	3	96	0.00	0.0	5.082	0.054	0	0	0	3
PL.40284	PL.40243	A	6 A (CWC)	7.21Y	120.2	0.00	4.85	0.03	0	0	0	100	0.00	0.0	5.186	0.104	0	0	1	1
PL.40285	PL.40284	A	6 A (CWC)	7.21Y	120.2	0.00	4.85	0.00	0	0	0	100	0.00	0.0	5.289	0.103	0	0	0	0
PL.40227	PL.40243	A	#2 ACSR	7.21Y	120.2	0.00	4.85	1.37	1	9	3	95	0.00	0.0	5.131	0.049	9	3	2	2
PL.40704	PL.40242	A	6 A (CWC)	7.21Y	120.2	0.00	4.84	0.00	0	0	0	100	0.00	0.0	5.144	0.116	0	0	0	0
PL.40376	PL.40375	A	6 A (CWC)	7.23Y	120.5	0.01	4.52	1.95	1	14	4	96	0.00	0.0	4.244	0.166	0	0	0	3
PL.40377	PL.40376	A	6 A (CWC)	7.23Y	120.5	0.01	4.52	1.95	1	14	4	96	0.00	0.0	4.325	0.081	0	0	0	3
PL.40378	PL.40377	A	6 A (CWC)	7.23Y	120.5	0.00	4.53	1.03	1	7	2	96	0.00	0.0	4.402	0.077	3	1	1	2
PL.40638	PL.40378	A	6 A (CWC)	7.23Y	120.5	0.00	4.53	0.54	0	4	1	97	0.00	0.0	4.439	0.036	4	1	1	1
PL.40718	PL.40377	A	6 A (CWC)	7.23Y	120.5	0.00	4.53	0.92	1	6	2	95	0.00	0.0	4.426	0.101	6	2	1	1
PL.40768	PL.40373	A	#4 ACSR	7.23Y	120.6	0.00	4.43	0.58	0	4	1	97	0.00	0.0	3.986	0.023	4	1	1	1
PL.52205	PL.52237	C	#1/0 ACSR	7.27Y	121.2	0.00	3.78	1.88	1	13	4	96	0.00	0.0	3.194	0.028	13	4	1	1
PL.52208	PL.52207	C	#1/0 ACSR	7.29Y	121.4	0.00	3.58	0.78	0	5	2	93	0.00	0.0	2.989	0.006	0	0	0	1
PD.8009	PL.52208	C	40QA	7.29Y	121.4	0.00	3.58	0.78	2	5	2	93	0.00	0.0	2.989	0.006	0	0	0	1
PL.52209	PD.8009	C	#1/0 ACSR	7.29Y	121.4	0.00	3.58	0.78	0	5	2	93	0.00	0.0	3.035	0.046	5	2	1	1
PL.40330	PL.40636	A	#1/0 ACSR	7.32Y	122.1	0.00	2.93	0.00	0	0	0	100	0.00	0.0	2.443	0.035	0	0	0	0
PL.40605	PL.40632	C	6 A (CWC)	7.34Y	122.3	0.00	2.70	4.32	3	30	9	96	0.00	0.0	2.211	0.006	0	0	0	2
PD.6244	PL.40605	C	60QA	7.34Y	122.3	0.00	2.70	4.32	7	30	9	96	0.00	0.0	2.211	0.006	0	0	0	2
PL.40606	PD.6244	C	6 A (CWC)	7.34Y	122.3	0.01	2.71	4.32	3	30	9	96	0.00	0.0	2.267	0.055	12	4	1	2
PL.40633	PL.40606	C	6 A (CWC)	7.34Y	122.3	0.02	2.73	2.55	2	18	5	96	0.00	0.0	2.584	0.318	18	5	1	1
PL.40634	PL.40633	C	6 A (CWC)	7.34Y	122.3	0.00	2.73	0.00	0	0	0	100	0.00	0.0	2.965	0.381	0	0	0	0
PL.40804	PL.40634	C	6 A (CWC)	7.34Y	122.3	0.00	2.73	0.00	0	0	0	100	0.00	0.0	3.005	0.040	0	0	0	0
PL.40178	PL.40604	C	#2 ACSR	7.35Y	122.4	0.00	2.57	0.00	0	0	0	100	0.00	0.0	2.140	0.046	0	0	0	0
PL.40201	PL.63360	A	#2 ACSR	7.36Y	122.6	0.00	2.42	0.00	0	0	0	100	0.00	0.0	2.027	0.069	0	0	0	0
PL.63361	PL.63359	C	#1/0 ACSR	7.36Y	122.7	0.00	2.33	1.85	1	13	4	96	0.00	0.0	1.886	0.002	0	0	0	1
PD.9466	PL.63361	C	10T	7.36Y	122.7	0.00	2.33	1.85	0	13	4	96	0.00	0.0	1.886	0.002	0	0	0	1
PL.63362	PD.9466	C	#1/0 ACSR	7.36Y	122.7	0.00	2.33	1.85	1	13	4	96	0.00	0.0	1.907	0.021	13	4	1	1
PL.40279	PL.53127	A	#1/0 ACSR	7.37Y	122.8	0.00	2.18	1.07	0	8	2	97	0.00	0.0	1.761	0.006	0	0	0	2
PD.6303	PL.40279	A	40QA	7.37Y	122.8	0.00	2.18	1.07	3	8	2	97	0.00	0.0	1.761	0.006	0	0	0	2
PL.40280	PD.6303	A	#1/0 ACSR	7.37Y	122.8	0.00	2.18	1.07	0	8	2	97	0.00	0.0	1.798	0.037	8	2	2	2
PL.53126	PL.53129	C	#1/0 ACSR	7.38Y	123.0	0.00	1.98	5.92	3	42	12	96	0.00	0.0	1.589	0.006	0	0	0	10

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.6304	PL.53126	C	40QA	7.38Y	123.0	0.00	1.98	5.92	15	42	12	96	0.00	0.0	1.589	0.006	0	0	0	10
PL.40272	PD.6304	C	#1/0 ACSR	7.38Y	123.0	0.02	2.00	5.92	3	42	12	96	0.01	0.0	1.750	0.161	8	2	1	10
PL.53130	PL.40272	C	#1/0 ACSR	7.38Y	123.0	0.00	2.00	4.83	2	34	10	96	0.00	0.0	1.785	0.035	0	0	0	9
PL.53131	PL.53130	C	#1/0 ACSR	7.38Y	123.0	0.01	2.01	3.55	2	25	7	96	0.00	0.0	1.852	0.067	0	0	0	8
PL.53137	PL.53131	C	#1/0 ACSR	7.38Y	123.0	0.01	2.01	3.55	2	25	7	96	0.00	0.0	1.943	0.092	12	4	2	8
PL.53138	PL.53137	C	#1/0 ACSR	7.38Y	123.0	0.00	2.01	0.13	0	1	0	100	0.00	0.0	1.999	0.056	1	0	2	2
PL.53139	PL.53137	C	#1/0 ACSR	7.38Y	123.0	0.00	2.02	1.68	1	12	3	97	0.00	0.0	2.045	0.102	0	0	1	4
PL.53140	PL.53139	C	#1/0 ACSR	7.38Y	123.0	0.00	2.02	1.68	1	12	3	97	0.00	0.0	2.252	0.206	12	3	2	3
PL.53135	PL.53140	C	6 A (CWC)	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	2.385	0.133	0	0	0	1
PL.53134	PL.53135	C	6 A (CWC)	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	2.479	0.094	0	0	1	1
PL.53133	PL.53134	C	6 A (CWC)	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	2.516	0.037	0	0	0	0
PL.53132	PL.53130	C	#2 ACSR	7.38Y	123.0	0.00	2.00	1.28	1	9	3	95	0.00	0.0	1.877	0.093	9	3	1	1
PL.39125	PL.38292	A	#2 ACSR	7.39Y	123.2	0.00	1.79	1.75	1	12	4	95	0.00	0.0	1.435	0.006	0	0	0	1
PD.6305	PL.39125	A	40QA	7.39Y	123.2	0.00	1.79	1.75	4	12	4	95	0.00	0.0	1.435	0.006	0	0	0	1
PL.39126	PD.6305	A	#2 ACSR	7.39Y	123.2	0.00	1.79	1.75	1	12	4	95	0.00	0.0	1.479	0.044	12	4	1	1
PL.59240	PL.59238	C	#2 ACSR	7.44Y	123.9	0.00	1.08	1.32	1	9	3	95	0.00	0.0	0.853	0.004	0	0	0	1
PD.8676	PL.59240	C	40QA	7.44Y	123.9	0.00	1.08	1.32	3	9	3	95	0.00	0.0	0.853	0.004	0	0	0	1
PL.59237	PD.8676	C	#2 ACSR	7.44Y	123.9	0.00	1.08	1.32	1	9	3	95	0.00	0.0	0.960	0.106	0	0	0	1
PL.59236	PL.59237	C	#2 ACSR	7.43Y	123.9	0.01	1.09	1.32	1	9	3	95	0.00	0.0	1.127	0.168	0	0	0	1
PL.40269	PL.59236	C	#2 ACSR	7.43Y	123.9	0.00	1.09	1.32	1	9	3	95	0.00	0.0	1.257	0.129	9	3	1	1
PL.59235	PL.59237	C	#2 ACSR	7.44Y	123.9	0.00	1.08	0.00	0	0	0	100	0.00	0.0	1.053	0.093	0	0	0	0
PL.39676	PL.39675	A	#2 ACSR	7.49Y	124.9	0.00	0.09	1.72	1	12	4	95	0.00	0.0	0.074	0.006	0	0	0	1
PD.6334	PL.39676	A	40QA	7.49Y	124.9	0.00	0.09	1.72	4	12	4	95	0.00	0.0	0.074	0.006	0	0	0	1
PL.60720	PD.6334	A	#2 ACSR	7.49Y	124.9	0.00	0.09	1.72	1	12	4	95	0.00	0.0	0.114	0.039	12	4	1	1

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	9771	0	0	0	0	0	246	0.00	10017
KVAR	2834	0	0	0	0	0	457		3291

Lowest Voltage = 118.04 on Element PL.41168
Max Accm VoltD = 6.96 on Element PL.41168

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Balanced Voltage Drop Report
Source: Eberle

Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru

Max Elem VoltD = 0.51 on Element PL.40821