Balanced Voltage Drop Report
Source: Brodhead

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
Brodhead		ABC	SRC-Brodhe	7.50Y	125.0	0.00	0.00	613.14	0	13103	4317	95	0.00	0.0	0.000	0.000	0	0	0	1789
PL.58882	Brodhead	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	155.46	30	3346	1019	96	0.07	0.0	0.003	0.003	0	0	0	508
PL.58883	PL.58882	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	155.46	30	3346	1019	96	0.08	0.0	0.007	0.004	0	0	0	508
---------- Feeder No. 4 (Quail F4) Beginning with Device PD.8477 ----------																				
PD.8477	PL.58883	ABC	400VWE	7.50Y	125.0	0.00	0.01	155.46	0	3346	1018	96	0.00	0.0	0.007	0.004	0	0	0	508
PL.58601	PD.8477	ABC	750 MCM AL	7.50Y	125.0	0.01	0.02	155.46	31	3346	1018	96	0.22	0.0	0.029	0.021	0	0	0	508
PL.58602	PL.58601	ABC	336 MCM AC	7.47Y	124.5	0.46	0.48	155.46	30	3346	1018	96	7.80	0.2	0.412	0.383	0	0	0	508
PL.58605	PL.58602	ABC	336 MCM AC	7.46Y	124.3	0.23	0.70	155.46	30	3338	1000	96	3.94	0.1	0.605	0.193	0	0	0	508
PL.58604	PL.58605	C	6 A (CWC)	7.46Y	124.3	0.00	0.71	4.65	3	34	8	97	0.00	0.0	0.610	0.005	0	0	0	3
PD.8723	PL.58604	C	15T	7.46Y	124.3	0.00	0.71	4.65	0	34	8	97	0.00	0.0	0.610	0.005	0	0	0	3
PL.58598	PD.8723	C	#1/0 ACSR	7.46Y	124.3	0.00	0.71	4.65	2	34	8	97	0.00	0.0	0.623	0.013	12	3	1	3
PL.58595	PL.58598	C	6 A (CWC)	7.46Y	124.3	0.00	0.71	3.06	2	22	5	98	0.00	0.0	0.634	0.011	15	3	1	2
PL.58596	PL.58595	C	6 A (CWC)	7.46Y	124.3	0.00	0.71	0.96	1	7	2	96	0.00	0.0	0.649	0.015	7	2	1	1
PL.58597	PL.58596	C	6 A (CWC)	7.46Y	124.3	0.00	0.71	0.00	0	0	0	100	0.00	0.0	0.661	0.012	0	0	0	0
PL.58659	PL.58605	ABC	336 MCM AC	7.45Y	124.2	0.14	0.84	153.92	30	3300	983	96	2.35	0.1	0.723	0.118	0	0	0	505
PL.58660	PL.58659	A	#1/0 ACSR	7.45Y	124.2	0.00	0.84	1.69	1	12	3	97	0.00	0.0	0.729	0.006	0	0	0	2
PD.8633	PL.58660	A	12T	7.45Y	124.2	0.00	0.84	1.69	0	12	3	97	0.00	0.0	0.729	0.006	0	0	0	2
PL.58658	PD.8633	A	#1/0 ACSR	7.45Y	124.2	0.00	0.84	1.69	1	12	3	97	0.00	0.0	0.745	0.017	12	3	2	2
PL.58895	PL.58659	ABC	336 MCM AC	7.45Y	124.1	0.02	0.87	153.36	30	3286	975	96	0.42	0.0	0.744	0.021	0	0	0	503
PD.8485-A	PL.58895	ABC	Closed	7.45Y	124.1	0.00	0.87	153.36	0	3285	974	96	0.00	0.0	0.744	0.021	0	0	0	503
PD.8485-B	PD.8485-A	ABC	Closed	7.45Y	124.1	0.00	0.87	153.36	0	3285	974	96	0.00	0.0	0.744	0.021	0	0	0	503
PL.58893	PD.8485-B	ABC	336 MCM AC	7.45Y	124.1	0.04	0.90	153.36	30	3285	974	96	0.60	0.0	0.774	0.030	0	0	0	503
PL.58894	PL.58893	ABC	336 MCM AC	7.44Y	124.1	0.04	0.94	153.36	30	3285	973	96	0.72	0.0	0.810	0.036	0	0	0	503
PL.58886	PL.58894	ABC	336 MCM AC	7.44Y	124.0	0.04	0.98	153.36	30	3284	971	96	0.64	0.0	0.843	0.032	0	0	0	503
PL.58613	PL.58886	ABC	336 MCM AC	7.44Y	124.0	0.03	1.01	153.36	30	3283	969	96	0.56	0.0	0.871	0.028	0	0	0	503
PL.58614	PL.58613	ABC	336 MCM AC	7.43Y	123.9	0.08	1.10	153.36	30	3283	968	96	1.43	0.0	0.943	0.072	0	0	0	503
PL.58612	PL.58614	ABC	336 MCM AC	7.43Y	123.9	0.02	1.12	153.36	30	3281	965	96	0.31	0.0	0.959	0.016	0	0	0	503
PD.8624-A	PL.58612	ABC	Closed	7.43Y	123.9	0.00	1.12	153.36	0	3281	964	96	0.00	0.0	0.959	0.016	0	0	0	503
PD.8624-B	PD.8624-A	ABC	Closed	7.43Y	123.9	0.00	1.12	153.36	0	3281	964	96	0.00	0.0	0.959	0.016	0	0	0	503
PL.58642	PD.8624-B	ABC	336 MCM AC	7.43Y	123.8	0.11	1.23	153.36	30	3281	964	96	1.87	0.1	1.053	0.094	0	0	0	503

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: Brodhead

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.58639	PL.58642	A	6 A (CWC)	7.43Y	123.8	0.00	1.23	3.58	3	26	6	97	0.00	0.0	1.056	0.003	0	0	0	4
PD.8689	PL.58639	A	30T	7.43Y	123.8	0.00	1.23	3.58	0	26	6	97	0.00	0.0	1.056	0.003	0	0	0	4
PL.58476	PD.8689	A	6 A (CWC)	7.43Y	123.8	0.01	1.23	3.58	3	26	6	97	0.00	0.0	1.113	0.057	8	2	1	4
PL.58475	PL.58476	A	6 A (CWC)	7.43Y	123.8	0.00	1.24	2.54	2	18	4	98	0.00	0.0	1.173	0.060	18	4	3	3
PL.58638	PL.58642	ABC	336 MCM AC	7.41Y	123.5	0.31	1.53	152.17	29	3253	954	96	5.24	0.2	1.322	0.269	0	0	0	499
PL.49128	PL.58638	A	6 A (CWC)	7.41Y	123.5	0.00	1.53	3.90	3	28	6	98	0.00	0.0	1.323	0.001	0	0	0	4
PD.7495	PL.49128	A	50QA	7.41Y	123.5	0.00	1.53	3.90	8	28	6	98	0.00	0.0	1.323	0.001	0	0	0	4
PL.49129	PD.7495	A	6 A (CWC)	7.41Y	123.5	0.01	1.54	3.90	3	28	6	98	0.00	0.0	1.378	0.055	3	1	1	4
PL.49125	PL.49129	A	6 A (CWC)	7.41Y	123.4	0.01	1.55	3.54	3	26	6	97	0.00	0.0	1.447	0.070	0	0	0	3
PL.49126	PL.49125	A	6 A (CWC)	7.41Y	123.4	0.01	1.57	3.54	3	26	6	97	0.00	0.0	1.548	0.100	13	3	1	3
PL.49127	PL.49126	A	6 A (CWC)	7.41Y	123.4	0.00	1.57	1.79	1	13	3	97	0.00	0.0	1.592	0.045	13	3	2	2
PL.49124	PL.58638	ABC	336 MCM AC	7.38Y	123.0	0.43	1.96	150.87	29	3220	935	96	7.23	0.2	1.699	0.377	0	0	0	495
PL.58620	PL.49124	ABC	336 MCM AC	7.34Y	122.3	0.77	2.73	148.14	29	3153	905	96	12.80	0.4	2.392	0.692	0	0	0	480
PD.8627-A	PL.58620	ABC	Closed	7.34Y	122.3	0.00	2.73	148.14	0	3141	876	96	0.00	0.0	2.392	0.692	0	0	0	480
PD.8627-B	PD.8627-A	ABC	Closed	7.34Y	122.3	0.00	2.73	148.14	0	3141	876	96	0.00	0.0	2.392	0.692	0	0	0	480
PL.58621	PD.8627-B	ABC	336 MCM AC	7.34Y	122.3	0.00	2.73	148.14	29	3141	876	96	0.04	0.0	2.394	0.002	0	0	0	480
PL.62965	PL.58621	ABC	336 MCM AC	7.34Y	122.3	0.00	2.73	0.00	0	0	0	100	0.00	0.0	2.405	0.011	0	0	0	0
PD.9400-B	PL.62965	ABC	Open	7.34Y	122.3	0.00	2.73	0.00	0	0	0	100	0.00	0.0	2.405	0.011	0	0	0	0
PL.58619	PL.58621	ABC	336 MCM AC	7.32Y	122.1	0.20	2.93	148.14	29	3141	875	96	3.33	0.1	2.574	0.180	0	0	0	480
PL.58616	PL.58619	ABC	336 MCM AC	7.32Y	122.1	0.00	2.93	0.49	0	11	2	98	0.00	0.0	2.657	0.083	5	1	2	3
PL.47953	PL.58616	ABC	336 MCM AC	7.32Y	122.1	0.00	2.93	0.27	0	6	1	99	0.00	0.0	2.705	0.049	6	1	1	1
PL.47954	PL.47953	ABC	336 MCM AC	7.32Y	122.1	0.00	2.93	0.00	0	0	0	100	0.00	0.0	2.764	0.059	0	0	0	0
PD.7185-A	PL.47954	ABC	Open	7.32Y	122.1	0.00	2.93	0.00	0	0	0	100	0.00	0.0	2.764	0.059	0	0	0	0
PL.58624	PL.58619	ABC	336 MCM AC	7.32Y	122.1	0.02	2.95	147.65	28	3127	865	96	0.29	0.0	2.590	0.016	0	0	0	477
PL.58625	PL.58624	ABC	336 MCM AC	7.32Y	122.0	0.09	3.04	147.65	28	3126	865	96	1.59	0.1	2.676	0.087	10	2	1	477
PL.58628	PL.58625	ABC	336 MCM AC	7.31Y	121.9	0.11	3.15	147.18	28	3115	859	96	1.78	0.1	2.774	0.098	8	2	1	476
PL.58631	PL.58628	ABC	336 MCM AC	7.31Y	121.8	0.02	3.17	146.80	28	3105	853	96	0.39	0.0	2.796	0.022	0	0	0	475
PL.58630	PL.58631	A	#4 ACSR	7.31Y	121.8	0.00	3.17	2.43	2	17	4	97	0.00	0.0	2.797	0.001	0	0	0	2
PD.8628	PL.58630	A	70QA	7.31Y	121.8	0.00	3.17	2.43	0	17	4	97	0.00	0.0	2.797	0.001	0	0	0	2
PL.58629	PD.8628	A	#4 ACSR	7.31Y	121.8	0.00	3.18	2.43	2	17	4	97	0.00	0.0	2.853	0.056	17	4	2	2
PL.58632	PL.58631	ABC	336 MCM AC	7.30Y	121.7	0.08	3.26	145.99	28	3087	848	96	1.38	0.0	2.873	0.077	1	0	2	473

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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.58633	PL.58632	C	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	2.876	0.004	0	0	0	0
PD.8629	PL.58633	C	70QA	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	2.876	0.004	0	0	0	0
PL.58634	PD.8629	C	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	2.970	0.094	0	0	0	0
PL.58643	PL.58632	ABC	336 MCM AC	7.29Y	121.5	0.20	3.45	145.95	28	3085	845	96	3.28	0.1	3.056	0.184	17	4	2	471
PL.64055	PL.58643	ABC	336 MCM AC	7.29Y	121.5	0.00	3.45	145.16	28	3065	833	96	0.01	0.0	3.057	0.001	0	0	0	469
PL.64056	PL.64055	ABC	336 MCM AC	7.28Y	121.3	0.22	3.67	145.16	28	3065	833	96	3.62	0.1	3.261	0.204	0	0	0	469
PL.58663	PL.64056	A	#4 ACSR	7.28Y	121.3	0.00	3.67	0.90	1	6	1	99	0.00	0.0	3.267	0.006	0	0	0	1
PD.8631	PL.58663	A	70QA	7.28Y	121.3	0.00	3.67	0.90	0	6	1	99	0.00	0.0	3.267	0.006	0	0	0	1
PL.63455	PD.8631	A	#4 ACSR	7.28Y	121.3	0.00	3.68	0.90	1	6	1	99	0.00	0.0	3.374	0.107	0	0	0	1
PL.63456	PL.63455	A	#4 ACSR	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	3.410	0.037	0	0	0	0
PL.64062	PL.63455	A	#4 ACSR	7.28Y	121.3	0.00	3.68	0.90	1	6	1	99	0.00	0.0	3.406	0.033	6	1	1	1
PL.64061	PL.64062	A	#4 ACSR	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	3.461	0.055	0	0	0	0
PL.63434	PL.64061	A	#4 ACSR	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	3.579	0.118	0	0	0	0
PL.63435	PL.63434	A	#4 ACSR	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	3.702	0.123	0	0	0	0
PL.58670	PL.64056	ABC	336 MCM AC	7.27Y	121.2	0.14	3.81	144.15	28	3039	820	97	2.35	0.1	3.395	0.134	7	2	1	466
PL.58671	PL.58670	A	#4 ACSR	7.27Y	121.2	0.00	3.81	1.51	1	11	2	98	0.00	0.0	3.400	0.005	0	0	0	1
PD.8636	PL.58671	A	12T	7.27Y	121.2	0.00	3.81	1.51	0	11	2	98	0.00	0.0	3.400	0.005	0	0	0	1
PL.58661	PD.8636	A	#4 ACSR	7.27Y	121.2	0.00	3.82	1.51	1	11	2	98	0.00	0.0	3.453	0.053	11	2	1	1
PL.58673	PL.58670	ABC	336 MCM AC	7.26Y	121.1	0.11	3.93	143.32	28	3019	810	97	1.89	0.1	3.504	0.109	0	0	0	464
PL.58677	PL.58673	ABC	336 MCM AC	7.25Y	120.9	0.22	4.15	137.19	26	2887	777	97	3.45	0.1	3.722	0.218	0	0	0	445
PL.58676	PL.58677	ABC	336 MCM AC	7.25Y	120.9	0.00	4.15	0.41	0	9	2	98	0.00	0.0	3.723	0.002	0	0	0	2
PD.8637	PL.58676	C	15T	7.25Y	120.9	0.00	4.15	1.22	0	9	2	98	0.00	0.0	3.723	0.002	0	0	0	2
PL.58681	PD.8637	C	6 A (CWC)	7.25Y	120.9	0.00	4.15	0.04	0	0	0	100	0.00	0.0	3.816	0.093	0	0	1	1
PL.58680	PL.58681	C	6 A (CWC)	7.25Y	120.9	0.00	4.15	0.00	0	0	0	100	0.00	0.0	3.883	0.067	0	0	0	0
PL.58679	PD.8637	C	6 A (CWC)	7.25Y	120.9	0.00	4.15	1.18	1	8	2	97	0.00	0.0	3.777	0.054	8	2	1	1
PL.58678	PL.58677	ABC	336 MCM AC	7.25Y	120.8	0.05	4.20	136.79	26	2875	767	97	0.82	0.0	3.773	0.052	0	0	0	443
PL.58693	PL.58678	C	#1/0 ACSR	7.25Y	120.8	0.00	4.20	0.03	0	0	0	100	0.00	0.0	3.779	0.006	0	0	0	1
PD.8642	PL.58693	C	12T	7.25Y	120.8	0.00	4.20	0.03	0	0	0	100	0.00	0.0	3.779	0.006	0	0	0	1
PL.58694	PD.8642	C	#1/0 ACSR	7.25Y	120.8	0.00	4.20	0.03	0	0	0	100	0.00	0.0	3.845	0.065	0	0	1	1
PL.58854	PL.58678	ABC	336 MCM AC	7.25Y	120.8	0.03	4.23	136.78	26	2874	765	97	0.48	0.0	3.804	0.031	22	5	2	442
PL.58855	PL.58854	ABC	336 MCM AC	7.24Y	120.7	0.03	4.26	135.76	26	2852	759	97	0.50	0.0	3.837	0.032	22	5	2	440

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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.58857	PL.58855	ABC	336 MCM AC	7.24Y	120.7	0.04	4.30	134.73	26	2830	753	97	0.64	0.0	3.878	0.042	0	0	0	438
PL.58858	PL.58857	C	#1/0 ACSR	7.24Y	120.7	0.00	4.30	1.91	1	14	3	98	0.00	0.0	3.884	0.006	0	0	0	2
PD.8739	PL.58858	C	20T	7.24Y	120.7	0.00	4.30	1.91	0	14	3	98	0.00	0.0	3.884	0.006	0	0	0	2
PL.58856	PD.8739	C	#1/0 ACSR	7.24Y	120.7	0.00	4.31	1.91	1	14	3	98	0.00	0.0	3.922	0.038	14	3	2	2
PL.58861	PL.58857	ABC	336 MCM AC	7.23Y	120.6	0.12	4.42	134.09	26	2815	749	97	1.78	0.1	3.996	0.117	0	0	1	436
PL.58862	PL.58861	B	#1/0 ACSR	7.23Y	120.6	0.00	4.42	0.18	0	1	0	100	0.00	0.0	4.001	0.006	0	0	0	1
PD.8740	PL.58862	B	20T	7.23Y	120.6	0.00	4.42	0.18	0	1	0	100	0.00	0.0	4.001	0.006	0	0	0	1
PL.58860	PD.8740	B	#1/0 ACSR	7.23Y	120.6	0.00	4.42	0.18	0	1	0	100	0.00	0.0	4.048	0.047	1	0	1	1
PL.64058	PL.58861	ABC	336 MCM AC	7.23Y	120.5	0.07	4.49	134.03	26	2812	744	97	1.12	0.0	4.069	0.074	0	0	0	434
PL.64059	PL.64058	ABC	336 MCM AC	7.23Y	120.5	0.03	4.53	134.03	26	2811	742	97	0.53	0.0	4.104	0.035	4	1	1	434
PL.58863	PL.64059	ABC	336 MCM AC	7.21Y	120.2	0.23	4.76	133.85	26	2807	739	97	3.60	0.1	4.343	0.239	0	0	0	433
PL.58848	PL.58863	ABC	336 MCM AC	7.21Y	120.2	0.05	4.81	133.75	26	2801	731	97	0.73	0.0	4.392	0.049	11	2	1	432
PL.58866	PL.58848	ABC	336 MCM AC	7.20Y	120.1	0.12	4.93	133.24	26	2790	726	97	1.83	0.1	4.514	0.123	0	0	0	431
PL.58205	PL.58866	ABC	336 MCM AC	7.20Y	120.0	0.07	4.99	132.26	25	2767	718	97	1.01	0.0	4.583	0.068	0	0	0	428
PL.58207	PL.58205	ABC	336 MCM AC	7.20Y	119.9	0.08	5.08	132.08	25	2762	714	97	1.30	0.0	4.671	0.088	0	0	0	427
PL.58869	PL.58207	B	#1/0 ACSR	7.20Y	119.9	0.00	5.08	2.47	1	17	4	97	0.00	0.0	4.672	0.001	0	0	0	2
PD.8742	PL.58869	B	15T	7.20Y	119.9	0.00	5.08	2.47	0	17	4	97	0.00	0.0	4.672	0.001	0	0	0	2
PL.58870	PD.8742	B	#1/0 ACSR	7.20Y	119.9	0.00	5.08	2.47	1	17	4	97	0.00	0.0	4.676	0.004	17	4	2	2
PL.58210	PL.58207	ABC	336 MCM AC	7.19Y	119.8	0.09	5.17	131.25	25	2743	707	97	1.41	0.1	4.768	0.097	0	0	0	425
PL.58211	PL.58210	ABC	336 MCM AC	7.18Y	119.7	0.11	5.28	131.25	25	2742	704	97	1.64	0.1	4.882	0.113	0	0	0	425
PL.58212	PL.58211	A	#1/0 ACSR	7.18Y	119.7	0.00	5.28	15.30	7	107	24	98	0.00	0.0	4.894	0.012	0	0	0	22
PL.58208	PL.58212	A	6 A (CWC)	7.18Y	119.7	0.00	5.28	15.30	11	107	24	98	0.00	0.0	4.895	0.001	0	0	0	22
PD.8743	PL.58208	A	50L	7.18Y	119.7	0.00	5.28	15.30	31	107	24	98	0.00	0.0	4.895	0.001	0	0	0	22
PL.58209	PD.8743	A	6 A (CWC)	7.18Y	119.7	0.03	5.31	15.30	11	107	24	98	0.03	0.0	4.946	0.051	14	3	3	22
PL.49232	PL.58209	A	6 A (CWC)	7.18Y	119.6	0.09	5.40	13.34	10	93	21	98	0.06	0.1	5.092	0.146	2	1	1	19
PL.61745	PL.49232	A	6 A (CWC)	7.18Y	119.6	0.00	5.40	0.59	0	4	1	97	0.00	0.0	5.095	0.003	0	0	0	2
PD.9177	PL.61745	A	20T	7.18Y	119.6	0.00	5.40	0.59	0	4	1	97	0.00	0.0	5.095	0.003	0	0	0	2
PL.61746	PD.9177	A	6 A (CWC)	7.18Y	119.6	0.00	5.40	0.59	0	4	1	97	0.00	0.0	5.241	0.146	4	1	2	2
PL.49233	PL.49232	A	6 A (CWC)	7.17Y	119.5	0.05	5.45	12.41	9	87	19	98	0.04	0.0	5.187	0.095	0	0	0	16
PL.61747	PL.49233	A	6 A (CWC)	7.17Y	119.5	0.00	5.45	12.41	9	87	19	98	0.00	0.0	5.187	0.000	0	0	0	16
PD.9178	PL.61747	A	30T	7.17Y	119.5	0.00	5.45	12.41	0	87	19	98	0.00	0.0	5.187	0.000	0	0	0	16

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: Brodhead

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.61749	PD.9178	A	6 A (CWC)	7.17Y	119.5	0.00	5.46	1.08	1	8	2	97	0.00	0.0	5.259	0.073	8	2	1	1
PL.61748	PD.9178	A	6 A (CWC)	7.17Y	119.5	0.03	5.48	11.34	8	79	18	98	0.02	0.0	5.248	0.061	0	0	1	15
PL.49234	PL.61748	A	6 A (CWC)	7.17Y	119.5	0.05	5.54	11.32	8	79	18	98	0.03	0.0	5.354	0.106	0	0	0	14
PL.61750	PL.49234	A	6 A (CWC)	7.17Y	119.5	0.00	5.54	1.34	1	9	2	98	0.00	0.0	5.354	0.001	0	0	0	2
PD.9179	PL.61750	A	30T	7.17Y	119.5	0.00	5.54	1.34	0	9	2	98	0.00	0.0	5.354	0.001	0	0	0	2
PL.61751	PD.9179	A	6 A (CWC)	7.17Y	119.5	0.01	5.54	1.34	1	9	2	98	0.00	0.0	5.450	0.095	0	0	0	2
PL.60024	PL.61751	A	6 A (CWC)	7.17Y	119.5	0.00	5.55	0.59	0	4	1	97	0.00	0.0	5.512	0.062	0	0	0	1
PL.58965	PL.60024	A	6 A (CWC)	7.17Y	119.5	0.00	5.55	0.59	0	4	1	97	0.00	0.0	5.632	0.120	4	1	1	1
PL.60025	PL.61751	A	#1/0 ACSR	7.17Y	119.5	0.00	5.54	0.76	0	5	1	98	0.00	0.0	5.489	0.039	5	1	1	1
PL.49235	PL.49234	A	6 A (CWC)	7.16Y	119.4	0.07	5.61	9.97	7	70	16	97	0.04	0.1	5.523	0.169	11	2	1	12
PL.49236	PL.49235	A	6 A (CWC)	7.16Y	119.4	0.00	5.61	8.39	6	59	13	98	0.00	0.0	5.534	0.010	0	0	0	11
PL.61752	PL.49236	A	6 A (CWC)	7.16Y	119.3	0.05	5.67	8.39	6	59	13	98	0.02	0.0	5.678	0.145	4	1	1	11
PL.61753	PL.61752	A	6 A (CWC)	7.16Y	119.3	0.01	5.67	2.10	2	15	3	98	0.00	0.0	5.774	0.096	0	0	0	4
PL.49240	PL.61753	A	6 A (CWC)	7.16Y	119.3	0.01	5.68	2.10	2	15	3	98	0.00	0.0	5.848	0.073	0	0	0	4
PL.61758	PL.49240	A	6 A (CWC)	7.16Y	119.3	0.00	5.68	0.56	0	4	1	97	0.00	0.0	5.851	0.003	0	0	0	2
PD.9182	PL.61758	A	30T	7.16Y	119.3	0.00	5.68	0.56	0	4	1	97	0.00	0.0	5.851	0.003	0	0	0	2
PL.61759	PD.9182	A	6 A (CWC)	7.16Y	119.3	0.01	5.69	0.56	0	4	1	97	0.00	0.0	6.170	0.319	2	0	1	2
PL.48292	PL.61759	A	6 A (CWC)	7.16Y	119.3	0.00	5.69	0.29	0	2	0	100	0.00	0.0	6.451	0.281	2	0	1	1
PL.61756	PL.49240	A	6 A (CWC)	7.16Y	119.3	0.00	5.68	1.54	1	11	2	98	0.00	0.0	5.851	0.003	0	0	0	2
PD.9181	PL.61756	A	30T	7.16Y	119.3	0.00	5.68	1.54	0	11	2	98	0.00	0.0	5.851	0.003	0	0	0	2
PL.61757	PD.9181	A	6 A (CWC)	7.16Y	119.3	0.00	5.69	1.54	1	11	2	98	0.00	0.0	5.924	0.073	6	1	1	2
PL.49241	PL.61757	A	6 A (CWC)	7.16Y	119.3	0.00	5.69	0.63	0	4	1	97	0.00	0.0	6.012	0.088	4	1	1	1
PL.61944	PL.61752	A	6 A (CWC)	7.16Y	119.3	0.00	5.67	1.31	1	9	2	98	0.00	0.0	5.777	0.099	9	2	2	2
PL.61754	PL.61752	A	6 A (CWC)	7.16Y	119.3	0.00	5.67	4.42	3	31	7	98	0.00	0.0	5.679	0.001	0	0	0	4
PD.9180	PL.61754	A	30T	7.16Y	119.3	0.00	5.67	4.42	0	31	7	98	0.00	0.0	5.679	0.001	0	0	0	4
PL.61755	PD.9180	A	6 A (CWC)	7.16Y	119.3	0.04	5.70	4.42	3	31	7	98	0.01	0.0	5.864	0.185	0	0	0	4
PL.49237	PL.61755	A	6 A (CWC)	7.16Y	119.3	0.00	5.70	0.91	1	6	1	99	0.00	0.0	5.959	0.094	6	1	1	1
PL.49238	PL.61755	A	6 A (CWC)	7.16Y	119.3	0.01	5.72	3.50	3	24	5	98	0.00	0.0	5.974	0.110	12	3	1	3
PL.49239	PL.49238	A	6 A (CWC)	7.16Y	119.3	0.00	5.72	1.78	1	12	3	97	0.00	0.0	6.048	0.074	7	2	1	2
PL.63431	PL.49239	A	#1/0 ACSR	7.16Y	119.3	0.00	5.72	0.76	0	5	1	98	0.00	0.0	6.094	0.046	5	1	1	1
PL.58219	PL.58211	ABC	336 MCM AC	7.18Y	119.7	0.06	5.33	126.16	24	2633	676	97	0.82	0.0	4.942	0.061	0	0	1	403

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: Brodhead

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.58220	PL.58219	ABC	336 MCM AC	7.17Y	119.6	0.10	5.43	125.77	24	2624	673	97	1.39	0.1	5.047	0.105	3	1	1	399
PL.58217	PL.58220	C	6 A (CWC)	7.17Y	119.6	0.00	5.43	3.61	3	25	6	97	0.00	0.0	5.052	0.005	0	0	0	2
PD.8745	PL.58217	C	15T	7.17Y	119.6	0.00	5.43	3.61	0	25	6	97	0.00	0.0	5.052	0.005	0	0	0	2
PL.58215	PD.8745	C	6 A (CWC)	7.17Y	119.6	0.00	5.43	3.61	3	25	6	97	0.00	0.0	5.089	0.037	10	2	1	2
PL.58214	PL.58215	C	6 A (CWC)	7.17Y	119.6	0.00	5.44	2.13	2	15	3	98	0.00	0.0	5.178	0.089	15	3	1	1
PL.49055	PL.58214	C	6 A (CWC)	7.17Y	119.6	0.00	5.44	0.00	0	0	0	100	0.00	0.0	5.231	0.054	0	0	0	0
PL.58218	PL.58220	ABC	#3/0 ACSR	7.17Y	119.5	0.11	5.54	124.42	41	2594	663	97	1.83	0.1	5.118	0.071	5	1	2	396
PL.49056	PL.58218	ABC	#3/0 ACSR	7.16Y	119.3	0.16	5.70	124.19	41	2588	659	97	2.73	0.1	5.223	0.105	6	1	1	394
PL.59162	PL.49056	ABC	#3/0 ACSR	7.16Y	119.3	0.01	5.70	123.90	41	2579	654	97	0.09	0.0	5.227	0.004	0	0	0	393
RG.59	PL.59162	ABC	167Kkva	7.49Y	124.8	-5.46	0.25	123.90	57	2579	654	97	percent Boost= 4.38 Tap= 7.0							393
PL.59163	RG.59	ABC	#3/0 ACSR	7.47Y	124.5	0.21	0.45	118.48	39	2579	654	97	3.33	0.1	5.368	0.141	0	0	0	393
PL.49151	PL.59163	ABC	#3/0 ACSR	7.47Y	124.5	0.00	0.45	118.48	39	2576	649	97	0.01	0.0	5.368	0.001	0	0	0	393
PD.7179	PL.49151	ABC	200L	7.47Y	124.5	0.00	0.45	118.48	0	2576	649	97	0.00	0.0	5.368	0.001	0	0	0	393
PL.49152	PD.7179	ABC	#3/0 ACSR	7.47Y	124.5	0.02	0.47	118.48	39	2576	649	97	0.35	0.0	5.383	0.015	0	0	0	393
PL.47450	PL.49152	C	#4 ACSR	7.47Y	124.5	0.00	0.48	0.69	1	5	1	98	0.00	0.0	5.435	0.052	5	1	1	1
PL.49153	PL.49152	ABC	#3/0 ACSR	7.47Y	124.4	0.10	0.58	118.10	39	2567	647	97	1.65	0.1	5.453	0.070	0	0	0	391
PL.49156	PL.49153	ABC	#3/0 ACSR	7.46Y	124.3	0.08	0.65	115.69	39	2513	633	97	1.21	0.0	5.507	0.054	8	2	1	387
PL.49157	PL.49156	ABC	#3/0 ACSR	7.45Y	124.2	0.10	0.76	115.33	38	2504	629	97	1.63	0.1	5.580	0.073	0	0	0	386
PL.49181	PL.49157	ABC	#3/0 ACSR	7.45Y	124.2	0.00	0.76	115.33	38	2502	627	97	0.03	0.0	5.582	0.002	0	0	0	386
PL.49392	PL.49181	ABC	#3/0 ACSR	7.45Y	124.2	0.08	0.84	115.33	38	2502	627	97	1.23	0.0	5.637	0.055	0	0	0	386
PL.47552	PL.49392	C	#4 ACSR	7.45Y	124.2	0.00	0.84	1.48	1	11	2	98	0.00	0.0	5.766	0.129	11	2	1	1
PL.49393	PL.49392	ABC	#3/0 ACSR	7.43Y	123.9	0.25	1.09	114.84	38	2490	623	97	3.98	0.2	5.817	0.180	0	0	0	385
PL.47283	PL.49393	C	#4 ACSR	7.43Y	123.9	0.00	1.10	1.40	1	10	2	98	0.00	0.0	5.927	0.110	10	2	1	1
PL.49394	PL.49393	ABC	#3/0 ACSR	7.42Y	123.7	0.24	1.34	114.37	38	2476	615	97	3.77	0.2	5.989	0.172	0	0	0	384
PL.49395	PL.49394	ABC	#3/0 ACSR	7.42Y	123.6	0.07	1.40	112.83	38	2438	602	97	1.06	0.0	6.038	0.050	1	0	1	383
PL.49396	PL.49395	ABC	#3/0 ACSR	7.40Y	123.4	0.19	1.60	112.78	38	2436	600	97	2.99	0.1	6.178	0.140	0	0	0	382
PL.49397	PL.49396	ABC	#3/0 ACSR	7.40Y	123.3	0.08	1.68	112.78	38	2433	596	97	1.25	0.1	6.237	0.058	2	0	1	382
PL.49398	PL.49397	ABC	#3/0 ACSR	7.39Y	123.1	0.22	1.90	112.71	38	2430	593	97	3.33	0.1	6.393	0.156	0	0	0	381
PL.49399	PL.49398	A	6 A (CWC)	7.39Y	123.1	0.02	1.91	4.58	3	33	7	98	0.00	0.0	6.478	0.086	0	0	0	4
PL.47694	PL.49399	A	#4 ACSR	7.38Y	123.1	0.00	1.92	2.05	2	15	3	98	0.00	0.0	6.566	0.087	15	3	1	1
PL.49400	PL.49399	A	6 A (CWC)	7.38Y	123.1	0.01	1.92	2.54	2	18	4	98	0.00	0.0	6.549	0.070	8	2	2	3

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Balanced Voltage Drop Report
Source: Brodhead

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.63438	PL.49400	A	#1/0 ACSR	7.38Y	123.1	0.00	1.92	1.40	1	10	2	98	0.00	0.0	6.601	0.052	0	0	0	1
PL.63439	PL.63438	A	#1/0 ACSR	7.38Y	123.1	0.00	1.92	1.40	1	10	2	98	0.00	0.0	6.635	0.034	10	2	1	1
PL.47445	PL.49398	ABC	#3/0 ACSR	7.37Y	122.8	0.32	2.21	111.18	37	2394	581	97	4.86	0.2	6.627	0.234	0	0	0	377
PL.48522	PL.47445	C	6 A (CWC)	7.37Y	122.8	0.01	2.23	2.60	2	19	4	98	0.00	0.0	6.724	0.098	0	0	0	5
PL.61696	PL.48522	C	6 A (CWC)	7.37Y	122.8	0.00	2.23	1.41	1	10	2	98	0.00	0.0	6.728	0.003	0	0	0	2
PD.9154	PL.61696	C	15T	7.37Y	122.8	0.00	2.23	1.41	0	10	2	98	0.00	0.0	6.728	0.003	0	0	0	2
PL.61958	PD.9154	C	6 A (CWC)	7.37Y	122.8	0.01	2.23	1.41	1	10	2	98	0.00	0.0	6.899	0.171	10	2	2	2
PL.48523	PL.48522	C	6 A (CWC)	7.37Y	122.8	0.00	2.23	1.19	1	9	2	98	0.00	0.0	6.799	0.075	0	0	0	3
PL.61697	PL.48523	C	6 A (CWC)	7.37Y	122.8	0.00	2.23	0.00	0	0	0	100	0.00	0.0	6.803	0.004	0	0	0	1
PD.9155	PL.61697	C	15T	7.37Y	122.8	0.00	2.23	0.00	0	0	0	100	0.00	0.0	6.803	0.004	0	0	0	1
PL.61698	PD.9155	C	6 A (CWC)	7.37Y	122.8	0.00	2.23	0.00	0	0	0	100	0.00	0.0	6.869	0.066	0	0	1	1
PL.48024	PL.48523	C	6 A (CWC)	7.37Y	122.8	0.00	2.23	1.19	1	9	2	98	0.00	0.0	6.886	0.086	3	1	1	2
PL.48025	PL.48024	C	6 A (CWC)	7.37Y	122.8	0.00	2.24	0.82	1	6	1	99	0.00	0.0	7.016	0.130	6	1	1	1
PL.46798	PL.47445	ABC	#3/0 ACSR	7.35Y	122.6	0.23	2.45	110.32	37	2371	570	97	3.53	0.1	6.799	0.173	0	0	0	372
PL.61699	PL.46798	A	6 A (CWC)	7.35Y	122.5	0.03	2.48	8.29	6	59	13	98	0.01	0.0	6.883	0.083	0	0	0	13
PD.9156-A	PL.61699	A	Closed	7.35Y	122.5	0.00	2.48	8.29	0	59	13	98	0.00	0.0	6.883	0.083	0	0	0	13
PD.9156-B	PD.9156-A	A	Closed	7.35Y	122.5	0.00	2.48	8.29	0	59	13	98	0.00	0.0	6.883	0.083	0	0	0	13
PL.61700	PD.9156-B	A	6 A (CWC)	7.35Y	122.5	0.00	2.48	8.29	6	59	13	98	0.00	0.0	6.886	0.003	0	0	0	13
PL.61701	PL.61700	A	#2 ACSR	7.35Y	122.5	0.00	2.48	1.05	1	8	2	97	0.00	0.0	6.889	0.003	0	0	0	1
PD.9157	PL.61701	A	15T	7.35Y	122.5	0.00	2.48	1.05	0	8	2	97	0.00	0.0	6.889	0.003	0	0	0	1
PL.61702	PD.9157	A	#2 ACSR	7.35Y	122.5	0.00	2.48	1.05	1	8	2	97	0.00	0.0	6.933	0.044	8	2	1	1
PL.64281	PL.61700	A	6 A (CWC)	7.35Y	122.5	0.03	2.51	7.24	5	52	12	97	0.01	0.0	6.987	0.101	0	0	0	12
PD.9513	PL.64281	A	65T	7.35Y	122.5	0.00	2.51	7.24	0	52	12	97	0.00	0.0	6.987	0.101	0	0	0	12
PL.64282	PD.9513	A	6 A (CWC)	7.34Y	122.4	0.11	2.62	7.24	5	52	12	97	0.04	0.1	7.312	0.325	0	0	0	12
PL.60087	PL.64282	A	6 A (CWC)	7.34Y	122.4	0.01	2.63	2.75	2	20	4	98	0.00	0.0	7.427	0.115	1	0	2	6
PL.60088	PL.60087	A	6 A (CWC)	7.34Y	122.4	0.00	2.64	2.66	2	19	4	98	0.00	0.0	7.451	0.024	0	0	0	4
PL.60086	PL.60088	A	6 A (CWC)	7.34Y	122.4	0.00	2.64	2.66	2	19	4	98	0.00	0.0	7.456	0.004	0	0	0	4
PL.57611	PL.60086	A	6 A (CWC)	7.34Y	122.4	0.01	2.65	2.66	2	19	4	98	0.00	0.0	7.564	0.109	0	0	0	4
PL.45992	PL.57611	A	6 A (CWC)	7.34Y	122.3	0.00	2.65	1.05	1	8	2	97	0.00	0.0	7.655	0.091	8	2	1	1
PL.57613	PL.57611	A	#1/0 ACSR	7.34Y	122.4	0.00	2.65	0.48	0	3	1	95	0.00	0.0	7.568	0.004	0	0	0	1
PD.8388	PL.57613	A	12T	7.34Y	122.4	0.00	2.65	0.48	0	3	1	95	0.00	0.0	7.568	0.004	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: Brodhead

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.57612	PD.8388	A	#1/0 ACSR	7.34Y	122.4	0.00	2.65	0.48	0	3	1	95	0.00	0.0	7.627	0.059	0	0	0	1
PL.57614	PL.57612	A	#1/0 ACSR	7.34Y	122.3	0.00	2.65	0.48	0	3	1	95	0.00	0.0	7.761	0.134	3	1	1	1
PL.61707	PL.57611	A	6 A (CWC)	7.34Y	122.4	0.00	2.65	1.13	1	8	2	97	0.00	0.0	7.567	0.003	0	0	0	2
PD.9160	PL.61707	A	12T	7.34Y	122.4	0.00	2.65	1.13	0	8	2	97	0.00	0.0	7.567	0.003	0	0	0	2
PL.61708	PD.9160	A	6 A (CWC)	7.34Y	122.3	0.00	2.65	1.13	1	8	2	97	0.00	0.0	7.634	0.067	6	1	1	2
PL.48464	PL.61708	A	6 A (CWC)	7.34Y	122.3	0.00	2.65	0.36	0	3	1	95	0.00	0.0	7.651	0.017	0	0	0	1
PL.47628	PL.48464	A	6 A (CWC)	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	7.763	0.112	0	0	0	0
PL.48436	PL.48464	A	6 A (CWC)	7.34Y	122.3	0.00	2.65	0.36	0	3	1	95	0.00	0.0	7.738	0.088	3	1	1	1
PL.61705	PL.64282	A	#4 ACSR	7.34Y	122.4	0.00	2.62	2.23	2	16	4	97	0.00	0.0	7.316	0.004	0	0	0	4
PD.9159	PL.61705	A	25T	7.34Y	122.4	0.00	2.62	2.23	0	16	4	97	0.00	0.0	7.316	0.004	0	0	0	4
PL.61706	PD.9159	A	#4 ACSR	7.34Y	122.4	0.01	2.62	2.23	2	16	4	97	0.00	0.0	7.428	0.112	14	3	3	4
PL.49402	PL.61706	A	#4 ACSR	7.34Y	122.4	0.00	2.63	0.27	0	2	0	100	0.00	0.0	7.503	0.075	2	0	1	1
PL.49403	PL.49402	A	#4 ACSR	7.34Y	122.4	0.00	2.63	0.00	0	0	0	100	0.00	0.0	7.591	0.088	0	0	0	0
PL.61703	PL.64282	A	6 A (CWC)	7.34Y	122.4	0.00	2.62	2.25	2	16	4	97	0.00	0.0	7.315	0.003	0	0	0	2
PD.9158	PL.61703	A	25T	7.34Y	122.4	0.00	2.62	2.25	0	16	4	97	0.00	0.0	7.315	0.003	0	0	0	2
PL.61704	PD.9158	A	6 A (CWC)	7.34Y	122.4	0.00	2.62	2.25	2	16	4	97	0.00	0.0	7.350	0.035	16	4	2	2
PL.48026	PL.46798	ABC	#3/0 ACSR	7.35Y	122.5	0.09	2.54	107.55	36	2308	552	97	1.30	0.1	6.866	0.067	0	0	0	359
PL.47142	PL.48026	C	#4 ACSR	7.35Y	122.5	0.00	2.54	0.00	0	0	0	100	0.00	0.0	6.920	0.054	0	0	0	0
PL.49404	PL.48026	ABC	#3/0 ACSR	7.34Y	122.3	0.17	2.71	107.55	36	2306	550	97	2.55	0.1	6.998	0.132	6	1	1	359
PL.59038	PL.49404	ABC	#3/0 ACSR	7.33Y	122.1	0.14	2.85	107.30	36	2298	545	97	2.11	0.1	7.107	0.110	9	2	2	358
PL.59054	PL.59038	ABC	#3/0 ACSR	7.32Y	122.0	0.15	3.00	106.87	36	2287	540	97	2.25	0.1	7.226	0.118	22	5	5	356
PL.59055	PL.59054	ABC	#3/0 ACSR	7.31Y	121.9	0.08	3.09	101.51	34	2170	511	97	1.18	0.1	7.295	0.069	23	5	3	334
PL.59039	PL.59055	ABC	#3/0 ACSR	7.31Y	121.9	0.03	3.12	100.43	33	2145	504	97	0.44	0.0	7.321	0.026	0	0	0	331
PL.52515	PL.59039	ABC	#3/0 ACSR	7.31Y	121.8	0.04	3.16	100.43	33	2145	503	97	0.60	0.0	7.356	0.036	20	5	2	331
PL.52516	PL.52515	ABC	#3/0 ACSR	7.31Y	121.8	0.05	3.22	99.48	33	2124	498	97	0.73	0.0	7.401	0.044	18	4	3	329
PL.49409	PL.52516	ABC	#3/0 ACSR	7.30Y	121.7	0.05	3.26	98.65	33	2106	493	97	0.62	0.0	7.438	0.038	2	0	1	326
PL.49410	PL.49409	ABC	#3/0 ACSR	7.30Y	121.7	0.07	3.33	98.55	33	2103	492	97	0.92	0.0	7.495	0.057	20	5	3	325
PL.47893	PL.49410	ABC	#3/0 ACSR	7.30Y	121.6	0.04	3.37	97.60	33	2081	486	97	0.52	0.0	7.528	0.033	15	3	2	322
PL.47271	PL.47893	ABC	#3/0 ACSR	7.29Y	121.6	0.07	3.44	96.89	32	2066	482	97	0.94	0.0	7.588	0.059	7	2	1	320
PL.47272	PL.47271	ABC	#3/0 ACSR	7.29Y	121.5	0.07	3.51	96.55	32	2058	479	97	0.88	0.0	7.644	0.056	0	0	0	319
PL.47895	PL.47272	ABC	336 MCM AC	7.29Y	121.5	0.02	3.52	91.29	18	1945	453	97	0.17	0.0	7.669	0.025	8	2	1	307

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: Brodhead

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.47896	PL.47895	ABC	336 MCM AC	7.29Y	121.5	0.02	3.54	90.93	18	1937	450	97	0.19	0.0	7.697	0.028	0	0	0	306
PL.61963	PL.47896	ABC	336 MCM AC	7.29Y	121.4	0.02	3.56	72.95	14	1553	364	97	0.15	0.0	7.730	0.033	8	2	1	243
PL.61964	PL.61963	ABC	336 MCM AC	7.29Y	121.4	0.03	3.58	72.59	14	1545	362	97	0.22	0.0	7.780	0.050	0	0	0	242
PL.49413	PL.61964	ABC	336 MCM AC	7.29Y	121.4	0.00	3.58	72.59	14	1545	361	97	0.00	0.0	7.781	0.001	0	0	0	242
PD.7600	PL.49413	ABC	140L	7.29Y	121.4	0.00	3.58	72.59	52	1545	361	97	0.00	0.0	7.781	0.001	0	0	0	242
PL.49414	PD.7600	ABC	336 MCM AC	7.28Y	121.4	0.03	3.61	72.59	14	1545	361	97	0.27	0.0	7.842	0.060	11	2	1	242
PL.57397	PL.49414	ABC	336 MCM AC	7.28Y	121.4	0.03	3.65	72.09	14	1534	358	97	0.28	0.0	7.907	0.065	10	2	1	241
PL.57398	PL.57397	ABC	336 MCM AC	7.28Y	121.3	0.03	3.68	71.61	14	1523	355	97	0.27	0.0	7.969	0.063	6	1	2	240
PL.49416	PL.57398	ABC	336 MCM AC	7.28Y	121.3	0.06	3.73	70.75	14	1505	351	97	0.47	0.0	8.081	0.111	0	0	0	237
PL.48912	PL.49416	A	#4 ACSR	7.28Y	121.3	0.00	3.73	4.53	3	32	7	98	0.00	0.0	8.081	0.001	0	0	0	3
PD.7532	PL.48912	A	12T	7.28Y	121.3	0.00	3.73	4.53	0	32	7	98	0.00	0.0	8.081	0.001	0	0	0	3
PL.48377	PD.7532	A	#4 ACSR	7.28Y	121.3	0.00	3.74	4.53	3	32	7	98	0.00	0.0	8.101	0.020	0	0	0	3
PL.49417	PL.48377	A	#4 ACSR	7.28Y	121.3	0.00	3.74	1.16	1	8	2	97	0.00	0.0	8.227	0.125	8	2	1	1
PL.49418	PL.48377	A	#4 ACSR	7.28Y	121.3	0.01	3.75	3.38	3	24	5	98	0.00	0.0	8.189	0.088	11	2	1	2
PL.49419	PL.49418	A	#4 ACSR	7.27Y	121.2	0.00	3.75	1.87	1	13	3	97	0.00	0.0	8.259	0.071	13	3	1	1
PL.47761	PL.49416	ABC	336 MCM AC	7.27Y	121.2	0.05	3.79	69.24	13	1472	342	97	0.43	0.0	8.188	0.107	0	0	0	234
PL.48379	PL.47761	A	#4 ACSR	7.27Y	121.2	0.00	3.79	0.00	0	0	0	100	0.00	0.0	8.227	0.039	0	0	0	0
PD.7345	PL.48379	A	50QA	7.27Y	121.2	0.00	3.79	0.00	0	0	0	100	0.00	0.0	8.227	0.039	0	0	0	0
PL.48380	PD.7345	A	#4 ACSR	7.27Y	121.2	0.00	3.79	0.00	0	0	0	100	0.00	0.0	8.286	0.059	0	0	0	0
PL.48381	PL.48380	A	#4 ACSR	7.27Y	121.2	0.00	3.79	0.00	0	0	0	100	0.00	0.0	8.409	0.123	0	0	0	0
PL.61541	PL.47761	ABC	336 MCM AC	7.27Y	121.2	0.03	3.82	67.33	13	1431	332	97	0.26	0.0	8.256	0.068	0	0	0	228
PL.61877	PL.61541	ABC	336 MCM AC	7.27Y	121.1	0.05	3.87	67.33	13	1431	332	97	0.41	0.0	8.362	0.106	0	0	0	228
PL.49015	PL.61877	C	#4 ACSR	7.27Y	121.1	0.00	3.87	0.95	1	7	1	99	0.00	0.0	8.363	0.001	0	0	0	1
PD.7346	PL.49015	C	50QA	7.27Y	121.1	0.00	3.87	0.95	2	7	1	99	0.00	0.0	8.363	0.001	0	0	0	1
PL.64766	PD.7346	C	#4 ACSR	7.27Y	121.1	0.00	3.87	0.95	1	7	1	99	0.00	0.0	8.371	0.008	0	0	0	1
PL.64767	PL.64766	C	#4 ACSR	7.27Y	121.1	0.00	3.87	0.00	0	0	0	100	0.00	0.0	8.403	0.032	0	0	0	0
PL.64768	PL.64766	C	#1/0 ACSR	7.27Y	121.1	0.00	3.87	0.95	0	7	1	99	0.00	0.0	8.409	0.038	7	1	1	1
PL.49014	PL.61877	ABC	336 MCM AC	7.26Y	121.1	0.05	3.92	67.02	13	1424	329	97	0.41	0.0	8.469	0.107	0	0	0	227
PL.49016	PL.49014	C	#2 ACSR	7.26Y	121.1	0.00	3.92	0.00	0	0	0	100	0.00	0.0	8.471	0.002	0	0	0	0
PD.7325	PL.49016	C	50QA	7.26Y	121.1	0.00	3.92	0.00	0	0	0	100	0.00	0.0	8.471	0.002	0	0	0	0
PL.49017	PD.7325	C	#2 ACSR	7.26Y	121.1	0.00	3.92	0.00	0	0	0	100	0.00	0.0	8.562	0.091	0	0	0	0

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Balanced Voltage Drop Report
Source: Brodhead

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.49046	PL.49014	A	#2 ACSR	7.26Y	121.1	0.00	3.92	1.51	1	11	2	98	0.00	0.0	8.471	0.001	0	0	0	2
PD.7347	PL.49046	A	40T	7.26Y	121.1	0.00	3.92	1.51	0	11	2	98	0.00	0.0	8.471	0.001	0	0	0	2
PL.49047	PD.7347	A	#2 ACSR	7.26Y	121.1	0.00	3.92	1.51	1	11	2	98	0.00	0.0	8.523	0.052	0	0	0	2
PL.49048	PL.49047	A	#2 ACSR	7.26Y	121.1	0.00	3.92	0.65	0	5	1	98	0.00	0.0	8.556	0.033	0	0	0	1
PL.47714	PL.49048	A	#2 ACSR	7.26Y	121.1	0.00	3.92	0.65	0	5	1	98	0.00	0.0	8.578	0.022	5	1	1	1
PL.49049	PL.49048	A	#2 ACSR	7.26Y	121.1	0.00	3.92	0.00	0	0	0	100	0.00	0.0	8.714	0.158	0	0	0	0
PL.49050	PL.49049	A	#2 ACSR	7.26Y	121.1	0.00	3.92	0.00	0	0	0	100	0.00	0.0	8.739	0.026	0	0	0	0
PL.61897	PL.49049	A	6 A (CWC)	7.26Y	121.1	0.00	3.92	0.00	0	0	0	100	0.00	0.0	8.717	0.003	0	0	0	0
PL.61894	PL.49047	A	#2 ACSR	7.26Y	121.1	0.00	3.92	0.85	0	6	1	99	0.00	0.0	8.526	0.003	0	0	0	1
PD.9236	PL.61894	A	12T	7.26Y	121.1	0.00	3.92	0.85	0	6	1	99	0.00	0.0	8.526	0.003	0	0	0	1
PL.61895	PD.9236	A	#2 ACSR	7.26Y	121.1	0.00	3.92	0.85	0	6	1	99	0.00	0.0	8.549	0.022	6	1	1	1
PL.49231	PL.49014	ABC	336 MCM AC	7.26Y	121.0	0.11	4.03	66.51	13	1412	326	97	0.85	0.1	8.698	0.228	0	0	0	225
PL.48438	PL.49231	C	6 A (CWC)	7.26Y	121.0	0.00	4.03	0.80	1	6	1	99	0.00	0.0	8.699	0.001	0	0	0	1
PD.7349	PL.48438	C	50QA	7.26Y	121.0	0.00	4.03	0.80	2	6	1	99	0.00	0.0	8.699	0.001	0	0	0	1
PL.48441	PD.7349	C	6 A (CWC)	7.26Y	121.0	0.00	4.03	0.80	1	6	1	99	0.00	0.0	8.739	0.040	6	1	1	1
PL.48442	PL.48441	C	6 A (CWC)	7.26Y	121.0	0.00	4.03	0.00	0	0	0	100	0.00	0.0	8.768	0.029	0	0	0	0
PL.48439	PL.49231	A	6 A (CWC)	7.26Y	121.0	0.00	4.03	0.38	0	3	1	95	0.00	0.0	8.699	0.001	0	0	0	1
PD.7348	PL.48439	A	50QA	7.26Y	121.0	0.00	4.03	0.38	1	3	1	95	0.00	0.0	8.699	0.001	0	0	0	1
PL.48440	PD.7348	A	6 A (CWC)	7.26Y	121.0	0.00	4.03	0.38	0	3	1	95	0.00	0.0	8.796	0.097	3	1	1	1
PL.48437	PL.49231	ABC	336 MCM AC	7.26Y	121.0	0.00	4.03	66.12	13	1403	322	97	0.00	0.0	8.699	0.001	0	0	0	223
PL.52786	PL.48437	ABC	336 MCM AC	7.26Y	120.9	0.03	4.05	66.12	13	1403	322	97	0.21	0.0	8.756	0.057	0	0	0	223
PL.52787	PL.52786	ABC	336 MCM AC	7.25Y	120.9	0.04	4.10	66.12	13	1403	322	97	0.34	0.0	8.849	0.093	2	1	1	223
PL.48444	PL.52787	ABC	336 MCM AC	7.25Y	120.9	0.02	4.12	66.01	13	1400	320	97	0.18	0.0	8.897	0.048	0	0	0	222
PL.46896	PL.48444	ABC	336 MCM AC	7.25Y	120.8	0.06	4.18	43.45	8	921	212	97	0.34	0.0	9.110	0.213	0	0	0	136
PL.49229	PL.46896	A	6 A (CWC)	7.25Y	120.8	0.00	4.18	2.95	2	21	5	97	0.00	0.0	9.112	0.001	0	0	0	3
PD.7358	PL.49229	A	50QA	7.25Y	120.8	0.00	4.18	2.95	6	21	5	97	0.00	0.0	9.112	0.001	0	0	0	3
PL.49230	PD.7358	A	6 A (CWC)	7.25Y	120.8	0.00	4.19	2.95	2	21	5	97	0.00	0.0	9.143	0.031	10	2	1	3
PL.49228	PL.49230	A	6 A (CWC)	7.25Y	120.8	0.00	4.19	1.51	1	11	2	98	0.00	0.0	9.181	0.038	0	0	0	2
PL.49227	PL.49228	A	6 A (CWC)	7.25Y	120.8	0.00	4.19	1.26	1	9	2	98	0.00	0.0	9.263	0.081	0	0	0	1
PL.48248	PL.49227	A	6 A (CWC)	7.25Y	120.8	0.00	4.20	1.26	1	9	2	98	0.00	0.0	9.399	0.136	9	2	1	1
PL.46894	PL.49228	A	6 A (CWC)	7.25Y	120.8	0.00	4.19	0.25	0	2	0	100	0.00	0.0	9.227	0.046	2	0	1	1

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Balanced Voltage Drop Report
Source: Brodhead

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.49223	PL.46896	ABC	336 MCM AC	7.25Y	120.8	0.03	4.21	42.46	8	900	206	97	0.14	0.0	9.202	0.092	0	0	0	133
PL.49225	PL.49223	A	6 A (CWC)	7.25Y	120.8	0.00	4.21	0.00	0	0	0	100	0.00	0.0	9.203	0.001	0	0	0	0
PD.7569	PL.49225	A	50QA	7.25Y	120.8	0.00	4.21	0.00	0	0	0	100	0.00	0.0	9.203	0.001	0	0	0	0
PL.49226	PD.7569	A	6 A (CWC)	7.25Y	120.8	0.00	4.21	0.00	0	0	0	100	0.00	0.0	9.312	0.109	0	0	0	0
PL.49224	PL.49223	ABC	336 MCM AC	7.25Y	120.8	0.03	4.24	42.46	8	900	206	97	0.14	0.0	9.297	0.094	7	2	2	133
PL.49220	PL.49224	C	#2 ACSR	7.25Y	120.8	0.00	4.24	2.17	1	15	3	98	0.00	0.0	9.298	0.001	0	0	0	2
PD.7392	PL.49220	C	50QA	7.25Y	120.8	0.00	4.24	2.17	4	15	3	98	0.00	0.0	9.298	0.001	0	0	0	2
PL.49221	PD.7392	C	#2 ACSR	7.25Y	120.8	0.00	4.24	2.17	1	15	3	98	0.00	0.0	9.323	0.026	15	3	2	2
PL.49222	PL.49224	ABC	336 MCM AC	7.24Y	120.7	0.02	4.26	41.42	8	878	201	97	0.10	0.0	9.363	0.067	0	0	0	129
PL.49065	PL.49222	ABC	#4 ACSR	7.24Y	120.7	0.00	4.26	0.01	0	0	0	100	0.00	0.0	9.364	0.001	0	0	0	1
PD.7364	PL.49065	ABC	50QA	7.24Y	120.7	0.00	4.26	0.01	0	0	0	100	0.00	0.0	9.364	0.001	0	0	0	1
PL.49066	PD.7364	ABC	#4 ACSR	7.24Y	120.7	0.00	4.26	0.01	0	0	0	100	0.00	0.0	9.398	0.034	0	0	1	1
PL.49064	PL.49222	ABC	336 MCM AC	7.24Y	120.7	0.01	4.27	41.25	8	874	199	98	0.05	0.0	9.396	0.033	0	0	0	127
PL.49062	PL.49064	A	6 A (CWC)	7.24Y	120.7	0.00	4.27	58.28	42	412	94	97	0.01	0.0	9.397	0.001	0	0	0	61
PD.7601	PL.49062	A	100L	7.24Y	120.7	0.00	4.27	58.28	58	412	94	97	0.00	0.0	9.397	0.001	0	0	0	61
PL.49063	PD.7601	A	6 A (CWC)	7.23Y	120.6	0.16	4.43	58.28	42	412	94	97	0.51	0.1	9.459	0.062	7	2	1	61
PL.49058	PL.49063	A	6 A (CWC)	7.22Y	120.3	0.31	4.74	57.25	41	404	92	98	0.96	0.2	9.580	0.121	0	0	0	60
PL.61908	PL.49058	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	3.59	3	25	6	97	0.00	0.0	9.583	0.003	0	0	0	4
PD.9241	PL.61908	A	25T	7.22Y	120.3	0.00	4.74	3.59	0	25	6	97	0.00	0.0	9.583	0.003	0	0	0	4
PL.61909	PD.9241	A	6 A (CWC)	7.22Y	120.3	0.00	4.75	3.59	3	25	6	97	0.00	0.0	9.605	0.022	0	0	0	4
PL.60156	PL.61909	A	#1/0 ACSR	7.22Y	120.3	0.00	4.75	0.00	0	0	0	100	0.00	0.0	9.662	0.057	0	0	1	1
PL.60155	PL.61909	A	6 A (CWC)	7.21Y	120.2	0.02	4.76	3.59	3	25	6	97	0.00	0.0	9.768	0.163	17	4	2	3
PL.49057	PL.60155	A	6 A (CWC)	7.21Y	120.2	0.00	4.77	1.18	1	8	2	97	0.00	0.0	9.898	0.129	8	2	1	1
PL.49161	PL.49058	A	6 A (CWC)	7.20Y	119.9	0.33	5.07	53.66	38	378	86	98	0.95	0.3	9.717	0.137	4	1	1	56
PL.61906	PL.49161	A	6 A (CWC)	7.20Y	119.9	0.00	5.07	2.00	1	14	3	98	0.00	0.0	9.720	0.003	0	0	0	2
PD.9240	PL.61906	A	25T	7.20Y	119.9	0.00	5.07	2.00	0	14	3	98	0.00	0.0	9.720	0.003	0	0	0	2
PL.61907	PD.9240	A	6 A (CWC)	7.19Y	119.9	0.02	5.09	2.00	1	14	3	98	0.00	0.0	9.963	0.243	6	1	1	2
PL.49160	PL.61907	A	6 A (CWC)	7.19Y	119.9	0.00	5.09	1.19	1	8	2	97	0.00	0.0	10.062	0.099	8	2	1	1
PL.61904	PL.49161	A	6 A (CWC)	7.20Y	119.9	0.00	5.07	1.45	1	10	2	98	0.00	0.0	9.720	0.003	0	0	0	1
PD.9239	PL.61904	A	25T	7.20Y	119.9	0.00	5.07	1.45	0	10	2	98	0.00	0.0	9.720	0.003	0	0	0	1
PL.61905	PD.9239	A	6 A (CWC)	7.20Y	119.9	0.00	5.07	1.45	1	10	2	98	0.00	0.0	9.761	0.041	10	2	1	1

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Balanced Voltage Drop Report
Source: Brodhead

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.49159	PL.49161	A	6 A (CWC)	7.16Y	119.4	0.56	5.63	49.58	35	348	79	98	1.47	0.4	9.970	0.253	12	3	2	52
PL.61902	PL.49159	A	6 A (CWC)	7.16Y	119.4	0.00	5.63	2.22	2	15	3	98	0.00	0.0	9.973	0.003	0	0	0	2
PD.9238	PL.61902	A	25T	7.16Y	119.4	0.00	5.63	2.22	0	15	3	98	0.00	0.0	9.973	0.003	0	0	0	2
PL.61903	PD.9238	A	6 A (CWC)	7.16Y	119.4	0.02	5.65	2.22	2	15	3	98	0.00	0.0	10.162	0.189	0	0	1	2
PL.49158	PL.61903	A	6 A (CWC)	7.16Y	119.3	0.01	5.65	2.21	2	15	3	98	0.00	0.0	10.287	0.125	15	3	1	1
PL.49440	PL.49159	A	6 A (CWC)	7.15Y	119.2	0.17	5.80	45.71	33	319	72	98	0.42	0.1	10.051	0.082	0	0	0	48
PL.61866	PL.49440	A	6 A (CWC)	7.15Y	119.1	0.12	5.91	45.71	33	319	72	98	0.29	0.1	10.109	0.058	0	0	0	48
PD.9200-A	PL.61866	A	Closed	7.15Y	119.1	0.00	5.91	45.71	0	319	71	98	0.00	0.0	10.109	0.058	0	0	0	48
PD.9200-B	PD.9200-A	A	Closed	7.15Y	119.1	0.00	5.91	45.71	0	319	71	98	0.00	0.0	10.109	0.058	0	0	0	48
PL.61867	PD.9200-B	A	6 A (CWC)	7.14Y	119.1	0.01	5.92	45.71	33	319	71	98	0.02	0.0	10.112	0.003	0	0	0	48
PL.61864	PL.61867	A	#1/0 ACSR	7.14Y	119.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	10.115	0.003	0	0	0	0
PD.9199	PL.61864	A	12T	7.14Y	119.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	10.115	0.003	0	0	0	0
PL.61865	PD.9199	A	#1/0 ACSR	7.14Y	119.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	10.172	0.057	0	0	0	0
PL.49439	PL.61867	A	6 A (CWC)	7.13Y	118.9	0.17	6.09	45.71	33	319	71	98	0.43	0.1	10.196	0.084	0	0	0	48
REG27	PL.49439	A	76.2 KVA	7.51Y	125.2	-6.26	-0.16	45.71	46	318	71	98	percent Boost= 5.00 Tap= 8.0							48
PL.49024	REG27	A	6 A (CWC)	7.50Y	125.0	0.15	-0.02	43.42	31	318	71	98	0.35	0.1	10.271	0.075	0	0	0	48
PL.61862	PL.49024	A	6 A (CWC)	7.50Y	125.0	0.00	-0.02	2.66	2	19	4	98	0.00	0.0	10.274	0.003	0	0	0	2
PD.9198	PL.61862	A	15T	7.50Y	125.0	0.00	-0.02	2.66	0	19	4	98	0.00	0.0	10.274	0.003	0	0	0	2
PL.61863	PD.9198	A	6 A (CWC)	7.50Y	125.0	0.01	-0.01	2.66	2	19	4	98	0.00	0.0	10.349	0.074	12	3	1	2
PL.49025	PL.61863	A	6 A (CWC)	7.50Y	125.0	0.00	-0.01	1.04	1	8	2	97	0.00	0.0	10.401	0.052	8	2	1	1
PL.49023	PL.49024	A	6 A (CWC)	7.49Y	124.9	0.12	0.11	40.77	29	298	67	98	0.26	0.1	10.340	0.069	18	4	2	46
PL.49026	PL.49023	A	6 A (CWC)	7.49Y	124.9	0.04	0.14	9.63	7	70	16	97	0.02	0.0	10.430	0.089	1	0	1	11
PL.49027	PL.49026	A	6 A (CWC)	7.49Y	124.8	0.05	0.20	8.13	6	59	13	98	0.02	0.0	10.588	0.158	9	2	1	9
PL.49434	PL.49027	A	6 A (CWC)	7.49Y	124.8	0.01	0.21	6.86	5	50	11	98	0.00	0.0	10.621	0.033	5	1	1	8
PL.49435	PL.49434	A	6 A (CWC)	7.49Y	124.8	0.01	0.22	6.18	4	45	10	98	0.00	0.0	10.653	0.032	9	2	1	7
PL.49436	PL.49435	A	6 A (CWC)	7.49Y	124.8	0.01	0.22	4.97	4	36	8	98	0.00	0.0	10.694	0.041	24	5	3	6
PL.49437	PL.49436	A	6 A (CWC)	7.49Y	124.8	0.00	0.22	1.73	1	13	3	97	0.00	0.0	10.720	0.025	0	0	0	3
PL.49438	PL.49437	A	6 A (CWC)	7.49Y	124.8	0.00	0.22	0.00	0	0	0	100	0.00	0.0	10.958	0.239	0	0	0	0
PL.61856	PL.49437	A	6 A (CWC)	7.49Y	124.8	0.00	0.22	1.29	1	9	2	98	0.00	0.0	10.723	0.003	0	0	0	2
PD.9195	PL.61856	A	12T	7.49Y	124.8	0.00	0.22	1.29	0	9	2	98	0.00	0.0	10.723	0.003	0	0	0	2
PL.61857	PD.9195	A	6 A (CWC)	7.49Y	124.8	0.00	0.22	1.29	1	9	2	98	0.00	0.0	10.761	0.038	9	2	2	2

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Balanced Voltage Drop Report
Source: Brodhead

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.61858	PL.49437	A	6 A (CWC)	7.49Y	124.8	0.00	0.22	0.45	0	3	1	95	0.00	0.0	10.723	0.003	0	0	0	1
PD.9196	PL.61858	A	12T	7.49Y	124.8	0.00	0.22	0.45	0	3	1	95	0.00	0.0	10.723	0.003	0	0	0	1
PL.61859	PD.9196	A	6 A (CWC)	7.49Y	124.8	0.00	0.22	0.45	0	3	1	95	0.00	0.0	10.802	0.079	3	1	1	1
PL.61860	PL.49026	A	#4 ACSR	7.49Y	124.9	0.00	0.14	1.35	1	10	2	98	0.00	0.0	10.433	0.003	0	0	0	1
PD.9197	PL.61860	A	12T	7.49Y	124.9	0.00	0.14	1.35	0	10	2	98	0.00	0.0	10.433	0.003	0	0	0	1
PL.61861	PD.9197	A	#4 ACSR	7.49Y	124.9	0.00	0.15	1.35	1	10	2	98	0.00	0.0	10.540	0.108	10	2	1	1
PL.49021	PL.49023	A	6 A (CWC)	7.48Y	124.7	0.15	0.25	28.65	20	210	47	98	0.23	0.1	10.455	0.115	0	0	0	33
PL.49022	PL.49021	A	6 A (CWC)	7.48Y	124.7	0.08	0.33	27.72	20	202	45	98	0.11	0.1	10.518	0.063	9	2	2	32
PL.47137	PL.49022	A	6 A (CWC)	7.48Y	124.6	0.08	0.41	22.66	16	165	37	98	0.09	0.1	10.600	0.082	16	4	3	28
PL.64894	PL.47137	A	#1/0 ACSR	7.48Y	124.6	0.00	0.41	0.19	0	1	0	100	0.00	0.0	10.658	0.058	1	0	1	1
PL.62277	PL.47137	A	6 A (CWC)	7.48Y	124.6	0.00	0.41	1.94	1	14	3	98	0.00	0.0	10.600	0.000	0	0	0	4
PD.9317	PL.62277	A	12T	7.48Y	124.6	0.00	0.41	1.94	0	14	3	98	0.00	0.0	10.600	0.000	0	0	0	4
PL.62278	PD.9317	A	6 A (CWC)	7.48Y	124.6	0.00	0.41	1.94	1	14	3	98	0.00	0.0	10.657	0.057	14	3	4	4
PL.47136	PL.47137	A	6 A (CWC)	7.47Y	124.5	0.11	0.52	18.27	13	133	30	98	0.11	0.1	10.735	0.135	0	0	0	20
PL.61874	PL.47136	A	#4 ACSR	7.47Y	124.5	0.00	0.52	3.10	2	23	5	98	0.00	0.0	10.758	0.022	0	0	0	3
PD.9204	PL.61874	A	12T	7.47Y	124.5	0.00	0.52	3.10	0	23	5	98	0.00	0.0	10.758	0.022	0	0	0	3
PL.61875	PD.9204	A	#4 ACSR	7.47Y	124.5	0.01	0.54	3.10	2	23	5	98	0.00	0.0	10.845	0.087	2	0	1	3
PL.47902	PL.61875	A	#4 ACSR	7.47Y	124.5	0.00	0.54	2.22	2	16	4	97	0.00	0.0	10.908	0.063	16	4	1	1
PL.64607	PL.61875	A	#4 ACSR	7.47Y	124.5	0.00	0.54	0.56	0	4	1	97	0.00	0.0	10.893	0.049	0	0	0	1
PL.64608	PL.64607	A	#4 ACSR	7.47Y	124.5	0.00	0.54	0.00	0	0	0	100	0.00	0.0	11.037	0.144	0	0	0	0
PL.64609	PL.64607	A	#1/0 ACSR	7.47Y	124.5	0.00	0.54	0.56	0	4	1	97	0.00	0.0	10.933	0.040	4	1	1	1
PL.61872	PL.47136	A	6 A (CWC)	7.47Y	124.5	0.00	0.52	0.92	1	7	1	99	0.00	0.0	10.738	0.003	0	0	0	3
PD.9203	PL.61872	A	12T	7.47Y	124.5	0.00	0.52	0.92	0	7	1	99	0.00	0.0	10.738	0.003	0	0	0	3
PL.61873	PD.9203	A	6 A (CWC)	7.47Y	124.5	0.01	0.53	0.92	1	7	1	99	0.00	0.0	10.967	0.229	0	0	0	3
PL.47408	PL.61873	A	6 A (CWC)	7.47Y	124.5	0.00	0.53	0.00	0	0	0	100	0.00	0.0	11.131	0.164	0	0	0	0
PL.61896	PL.61873	A	6 A (CWC)	7.47Y	124.5	0.01	0.54	0.92	1	7	1	99	0.00	0.0	11.423	0.456	7	1	2	3
PL.61898	PL.61896	A	6 A (CWC)	7.47Y	124.5	0.00	0.54	0.00	0	0	0	100	0.00	0.0	11.426	0.003	0	0	0	0
PL.61900	PL.61896	A	6 A (CWC)	7.47Y	124.5	0.00	0.54	0.00	0	0	0	100	0.00	0.0	11.426	0.003	0	0	0	1
PD.9237	PL.61900	A	10T	7.47Y	124.5	0.00	0.54	0.00	0	0	0	100	0.00	0.0	11.426	0.003	0	0	0	1
PL.61901	PD.9237	A	6 A (CWC)	7.47Y	124.5	0.00	0.54	0.00	0	0	0	100	0.00	0.0	11.458	0.032	0	0	1	1
PL.46738	PL.47136	A	6 A (CWC)	7.46Y	124.4	0.07	0.59	14.25	10	104	23	98	0.05	0.1	10.846	0.111	0	0	1	14

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Balanced Voltage Drop Report
Source: Brodhead

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.49051	PL.46738	A	6 A (CWC)	7.46Y	124.4	0.00	0.60	14.24	10	104	23	98	0.00	0.0	10.852	0.006	0	0	0	13
PD.7359	PL.49051	A	40QA	7.46Y	124.4	0.00	0.60	14.24	36	104	23	98	0.00	0.0	10.852	0.006	0	0	0	13
PL.49052	PD.7359	A	6 A (CWC)	7.46Y	124.4	0.05	0.65	14.24	10	104	23	98	0.04	0.0	10.940	0.087	17	4	1	13
PL.61876	PL.49052	A	6 A (CWC)	7.46Y	124.4	0.00	0.65	11.97	9	87	19	98	0.00	0.0	10.943	0.003	0	0	0	12
PD.9205	PL.61876	A	12T	7.46Y	124.4	0.00	0.65	11.97	0	87	19	98	0.00	0.0	10.943	0.003	0	0	0	12
PL.61492	PD.9205	A	6 A (CWC)	7.46Y	124.3	0.04	0.69	11.97	9	87	19	98	0.02	0.0	11.016	0.074	12	3	1	12
PL.49053	PL.61492	A	6 A (CWC)	7.46Y	124.3	0.04	0.72	10.29	7	75	17	98	0.02	0.0	11.100	0.083	0	0	0	11
PL.61493	PL.49053	A	6 A (CWC)	7.46Y	124.3	0.00	0.73	5.79	4	42	9	98	0.00	0.0	11.103	0.003	0	0	0	6
PD.9206	PL.61493	A	12T	7.46Y	124.3	0.00	0.73	5.79	0	42	9	98	0.00	0.0	11.103	0.003	0	0	0	6
PL.61494	PD.9206	A	6 A (CWC)	7.45Y	124.2	0.07	0.80	5.79	4	42	9	98	0.02	0.1	11.385	0.282	0	0	0	6
PL.49018	PL.61494	A	6 A (CWC)	7.45Y	124.2	0.01	0.81	5.43	4	40	9	98	0.00	0.0	11.432	0.047	7	1	1	5
PL.49019	PL.49018	A	6 A (CWC)	7.45Y	124.2	0.02	0.83	4.52	3	33	7	98	0.00	0.0	11.539	0.107	19	4	1	4
PL.64063	PL.49019	A	6 A (CWC)	7.45Y	124.2	0.00	0.83	1.86	1	14	3	98	0.00	0.0	11.627	0.088	10	2	1	3
PL.64064	PL.64063	A	6 A (CWC)	7.45Y	124.2	0.00	0.83	0.45	0	3	1	95	0.00	0.0	11.627	0.000	0	0	0	2
PL.49020	PL.64064	A	6 A (CWC)	7.45Y	124.2	0.00	0.83	0.45	0	3	1	95	0.00	0.0	11.682	0.055	3	1	1	2
PL.61957	PL.49020	A	#1/0 ACSR	7.45Y	124.2	0.00	0.83	0.00	0	0	0	100	0.00	0.0	11.776	0.093	0	0	1	1
PL.47367	PL.61494	A	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.35	0	3	1	95	0.00	0.0	11.471	0.087	3	1	1	1
PL.47715	PL.49053	A	#4 ACSR	7.46Y	124.3	0.00	0.72	0.00	0	0	0	100	0.00	0.0	11.564	0.465	0	0	0	0
PL.49054	PL.49053	A	6 A (CWC)	7.46Y	124.3	0.02	0.75	4.51	3	33	7	98	0.01	0.0	11.207	0.107	0	0	0	5
PL.48159	PL.49054	A	6 A (CWC)	7.45Y	124.2	0.02	0.76	3.27	2	24	5	98	0.00	0.0	11.341	0.134	11	2	2	4
PL.63714	PL.48159	A	6 A (CWC)	7.45Y	124.2	0.00	0.76	1.72	1	13	3	97	0.00	0.0	11.407	0.066	13	3	2	2
PL.47769	PL.49054	A	6 A (CWC)	7.46Y	124.3	0.00	0.75	1.24	1	9	2	98	0.00	0.0	11.250	0.043	9	2	1	1
PL.61870	PL.49022	A	6 A (CWC)	7.48Y	124.7	0.00	0.33	3.87	3	28	6	98	0.00	0.0	10.521	0.003	0	0	0	2
PD.9202	PL.61870	A	12T	7.48Y	124.7	0.00	0.33	3.87	0	28	6	98	0.00	0.0	10.521	0.003	0	0	0	2
PL.61871	PD.9202	A	6 A (CWC)	7.48Y	124.7	0.01	0.34	3.87	3	28	6	98	0.00	0.0	10.598	0.077	28	6	2	2
PL.61868	PL.49021	A	#4 ACSR	7.48Y	124.7	0.00	0.25	0.93	1	7	2	96	0.00	0.0	10.458	0.003	0	0	0	1
PD.9201	PL.61868	A	12T	7.48Y	124.7	0.00	0.25	0.93	0	7	2	96	0.00	0.0	10.458	0.003	0	0	0	1
PL.61869	PD.9201	A	#4 ACSR	7.48Y	124.7	0.00	0.26	0.93	1	7	2	96	0.00	0.0	10.585	0.127	7	2	1	1
PL.61495	PL.49064	C	#1/0 ACSR	7.24Y	120.7	0.08	4.35	65.47	28	463	105	98	0.26	0.1	9.451	0.055	0	0	0	66
PL.61498	PL.61495	C	#1/0 ACSR	7.24Y	120.6	0.07	4.42	48.92	21	345	79	97	0.16	0.0	9.513	0.063	0	0	0	52
PD.9208	PL.61498	C	100L	7.24Y	120.6	0.00	4.42	48.92	49	345	78	98	0.00	0.0	9.513	0.063	0	0	0	52

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: Brodhead

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.61499	PD.9208	C	#1/0 ACSR	7.23Y	120.5	0.12	4.54	48.92	21	345	78	98	0.28	0.1	9.625	0.112	9	2	1	52
PL.47302	PL.61499	C	#2 ACSR	7.23Y	120.5	0.00	4.54	1.85	1	13	3	97	0.00	0.0	9.641	0.015	13	3	2	2
PL.47389	PL.61499	C	#1/0 ACSR	7.22Y	120.4	0.08	4.62	45.75	20	323	73	98	0.18	0.1	9.707	0.082	5	1	1	49
PL.49167	PL.47389	C	#1/0 ACSR	7.21Y	120.2	0.19	4.81	45.06	20	317	72	98	0.41	0.1	9.893	0.186	0	0	0	48
PL.61500	PL.49167	C	#2 ACSR	7.21Y	120.2	0.00	4.81	0.60	0	4	1	97	0.00	0.0	9.896	0.003	0	0	0	1
PD.9209	PL.61500	C	12T	7.21Y	120.2	0.00	4.81	0.60	0	4	1	97	0.00	0.0	9.896	0.003	0	0	0	1
PL.61501	PD.9209	C	#2 ACSR	7.21Y	120.2	0.00	4.81	0.60	0	4	1	97	0.00	0.0	9.923	0.027	4	1	1	1
PL.49168	PL.49167	C	#1/0 ACSR	7.20Y	120.1	0.11	4.92	44.46	19	313	70	98	0.24	0.1	10.005	0.111	0	0	0	47
PL.49169	PL.49168	C	#1/0 ACSR	7.19Y	119.9	0.18	5.10	41.49	18	292	66	98	0.37	0.1	10.208	0.203	13	3	1	43
PL.61504	PL.49169	C	#1/0 ACSR	7.19Y	119.9	0.00	5.10	6.36	3	45	10	98	0.00	0.0	10.208	0.000	0	0	0	7
PD.9211	PL.61504	C	12T	7.19Y	119.9	0.00	5.10	6.36	0	45	10	98	0.00	0.0	10.208	0.000	0	0	0	7
PL.61505	PD.9211	C	#1/0 ACSR	7.19Y	119.9	0.02	5.13	5.38	2	38	8	98	0.01	0.0	10.451	0.243	13	3	1	5
PL.49146	PL.61505	C	#1/0 ACSR	7.19Y	119.9	0.01	5.13	3.51	2	25	5	98	0.00	0.0	10.539	0.088	3	1	1	4
PL.49148	PL.49146	C	#1/0 ACSR	7.19Y	119.9	0.00	5.14	2.12	1	15	3	98	0.00	0.0	10.642	0.103	11	2	1	2
PL.49149	PL.49148	C	#1/0 ACSR	7.19Y	119.9	0.00	5.14	0.53	0	4	1	97	0.00	0.0	10.643	0.001	0	0	0	1
PL.49147	PL.49149	C	#1/0 ACSR	7.19Y	119.9	0.00	5.14	0.53	0	4	1	97	0.00	0.0	10.696	0.053	4	1	1	1
PL.64845	PL.49146	C	#1/0 ACSR	7.19Y	119.9	0.00	5.13	0.97	0	7	2	96	0.00	0.0	10.574	0.035	7	2	1	1
PL.61508	PD.9211	C	6 A (CWC)	7.19Y	119.9	0.00	5.11	0.98	1	7	2	96	0.00	0.0	10.304	0.096	7	2	2	2
PL.61506	PL.49169	C	#1/0 ACSR	7.19Y	119.9	0.00	5.10	5.24	2	37	8	98	0.00	0.0	10.208	0.000	0	0	0	3
PD.9212	PL.61506	C	12T	7.19Y	119.9	0.00	5.10	5.24	0	37	8	98	0.00	0.0	10.208	0.000	0	0	0	3
PL.61509	PD.9212	C	#2 ACSR	7.19Y	119.9	0.00	5.10	1.87	1	13	3	97	0.00	0.0	10.265	0.057	13	3	1	1
PL.61507	PD.9212	C	#1/0 ACSR	7.19Y	119.9	0.01	5.12	3.37	1	24	5	98	0.00	0.0	10.407	0.199	0	0	0	2
PL.49171	PL.61507	C	#1/0 ACSR	7.19Y	119.9	0.00	5.12	1.88	1	13	3	97	0.00	0.0	10.511	0.104	0	0	0	1
PL.60046	PL.49171	C	#1/0 ACSR	7.19Y	119.9	0.01	5.13	1.88	1	13	3	97	0.00	0.0	10.675	0.164	0	0	0	1
PL.63420	PL.60046	C	#1/0 ACSR	7.19Y	119.9	0.00	5.13	1.88	1	13	3	97	0.00	0.0	10.700	0.025	13	3	1	1
PL.60044	PL.61507	C	#2 ACSR	7.19Y	119.9	0.00	5.12	1.49	1	10	2	98	0.00	0.0	10.410	0.003	0	0	0	1
PD.8847	PL.60044	C	20T	7.19Y	119.9	0.00	5.12	1.49	0	10	2	98	0.00	0.0	10.410	0.003	0	0	0	1
PL.60045	PD.8847	C	#2 ACSR	7.19Y	119.9	0.00	5.12	1.49	1	10	2	98	0.00	0.0	10.478	0.067	10	2	1	1
PL.47522	PL.49169	C	#1/0 ACSR	7.19Y	119.9	0.04	5.14	28.05	12	197	44	98	0.05	0.0	10.268	0.060	10	2	1	32
PL.47779	PL.47522	C	#1/0 ACSR	7.19Y	119.8	0.03	5.17	26.60	12	187	42	98	0.03	0.0	10.311	0.042	0	0	0	31
PL.47780	PL.47779	C	#1/0 ACSR	7.19Y	119.8	0.04	5.21	26.60	12	187	42	98	0.05	0.0	10.379	0.068	1	0	2	31

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: Brodhead

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.49172	PL.47780	C	#1/0 ACSR	7.18Y	119.7	0.05	5.26	26.45	11	186	41	98	0.06	0.0	10.469	0.091	25	6	3	29
PL.49173	PL.49172	C	#1/0 ACSR	7.18Y	119.7	0.03	5.28	22.84	10	160	36	98	0.03	0.0	10.519	0.049	2	0	1	26
PL.49174	PL.49173	C	#1/0 ACSR	7.18Y	119.7	0.04	5.32	22.16	10	155	35	98	0.04	0.0	10.603	0.084	8	2	1	23
PL.49175	PL.49174	C	#1/0 ACSR	7.18Y	119.6	0.03	5.35	20.99	9	147	33	98	0.03	0.0	10.668	0.065	11	2	1	22
PL.61512	PL.49175	C	#1/0 ACSR	7.18Y	119.6	0.00	5.35	16.61	7	116	26	98	0.00	0.0	10.671	0.003	0	0	0	18
PD.9214-A	PL.61512	C	Closed	7.18Y	119.6	0.00	5.35	16.61	0	116	26	98	0.00	0.0	10.671	0.003	0	0	0	18
PD.9214-B	PD.9214-A	C	Closed	7.18Y	119.6	0.00	5.35	16.61	0	116	26	98	0.00	0.0	10.671	0.003	0	0	0	18
PL.61513	PD.9214-B	C	#1/0 ACSR	7.18Y	119.6	0.04	5.39	16.61	7	116	26	98	0.03	0.0	10.770	0.099	5	1	1	18
PL.49179	PL.61513	C	#1/0 ACSR	7.17Y	119.6	0.05	5.43	15.86	7	111	25	98	0.03	0.0	10.899	0.128	0	0	0	17
PL.49180	PL.49179	C	#1/0 ACSR	7.17Y	119.5	0.03	5.46	14.32	6	100	22	98	0.02	0.0	10.999	0.100	23	5	1	15
PL.61516	PL.49180	C	#2 ACSR	7.17Y	119.5	0.00	5.46	1.20	1	8	2	97	0.00	0.0	11.002	0.003	0	0	0	1
PD.9216	PL.61516	C	12T	7.17Y	119.5	0.00	5.46	1.20	0	8	2	97	0.00	0.0	11.002	0.003	0	0	0	1
PL.61517	PD.9216	C	#2 ACSR	7.17Y	119.5	0.00	5.46	1.20	1	8	2	97	0.00	0.0	11.098	0.096	8	2	1	1
PL.62328	PL.49180	C	#1/0 ACSR	7.17Y	119.5	0.04	5.50	9.79	4	69	15	98	0.02	0.0	11.171	0.172	0	0	1	13
PL.62329	PL.62328	C	#1/0 ACSR	7.17Y	119.5	0.01	5.51	9.78	4	68	15	98	0.01	0.0	11.234	0.063	0	0	0	12
PL.62331	PL.62329	C	6 A (CWC)	7.17Y	119.5	0.00	5.51	1.81	1	13	3	97	0.00	0.0	11.237	0.003	0	0	0	2
PD.9329	PL.62331	C	12T	7.17Y	119.5	0.00	5.51	1.81	0	13	3	97	0.00	0.0	11.237	0.003	0	0	0	2
PL.62332	PD.9329	C	6 A (CWC)	7.17Y	119.5	0.01	5.52	1.81	1	13	3	97	0.00	0.0	11.351	0.115	11	3	1	2
PL.62330	PL.62332	C	6 A (CWC)	7.17Y	119.5	0.00	5.52	0.18	0	1	0	100	0.00	0.0	11.397	0.046	1	0	1	1
PL.62327	PL.62329	C	#1/0 ACSR	7.17Y	119.4	0.04	5.55	7.97	3	56	12	98	0.02	0.0	11.457	0.223	0	0	0	10
PL.61518	PL.62327	C	6 A (CWC)	7.17Y	119.4	0.00	5.55	3.82	3	27	6	98	0.00	0.0	11.460	0.003	0	0	0	3
PD.9217	PL.61518	C	12T	7.17Y	119.4	0.00	5.55	3.82	0	27	6	98	0.00	0.0	11.460	0.003	0	0	0	3
PL.61519	PD.9217	C	6 A (CWC)	7.17Y	119.4	0.01	5.56	3.82	3	27	6	98	0.00	0.0	11.542	0.082	25	6	2	3
PL.49452	PL.61519	C	6 A (CWC)	7.17Y	119.4	0.00	5.56	0.23	0	2	0	100	0.00	0.0	11.664	0.122	0	0	0	1
PL.48244	PL.49452	C	6 A (CWC)	7.17Y	119.4	0.00	5.56	0.23	0	2	0	100	0.00	0.0	11.739	0.076	2	0	1	1
PL.61520	PL.62327	C	#1/0 ACSR	7.17Y	119.4	0.00	5.55	4.15	2	29	6	98	0.00	0.0	11.460	0.003	0	0	0	7
PD.9218-A	PL.61520	C	Closed	7.17Y	119.4	0.00	5.55	4.15	0	29	6	98	0.00	0.0	11.460	0.003	0	0	0	7
PD.9218-B	PD.9218-A	C	Closed	7.17Y	119.4	0.00	5.55	4.15	0	29	6	98	0.00	0.0	11.460	0.003	0	0	0	7
PL.61521	PD.9218-B	C	#1/0 ACSR	7.17Y	119.4	0.01	5.56	4.15	2	29	6	98	0.00	0.0	11.552	0.092	0	0	0	7
PL.49451	PL.61521	C	#1/0 ACSR	7.17Y	119.4	0.01	5.57	4.15	2	29	6	98	0.00	0.0	11.634	0.082	0	0	0	7
PL.49453	PL.49451	C	#1/0 ACSR	7.16Y	119.4	0.02	5.59	4.15	2	29	6	98	0.00	0.0	11.865	0.231	11	2	1	7

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: Brodhead

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.47218	PL.49453	C	#4 ACSR	7.16Y	119.4	0.00	5.59	1.23	1	9	2	98	0.00	0.0	11.984	0.120	9	2	2	2
PL.49454	PL.49453	C	#1/0 ACSR	7.16Y	119.4	0.00	5.59	1.37	1	10	2	98	0.00	0.0	11.963	0.098	2	0	1	4
PL.61522	PL.49454	C	#4 ACSR	7.16Y	119.4	0.00	5.59	0.01	0	0	0	100	0.00	0.0	11.966	0.003	0	0	0	1
PD.9219	PL.61522	C	12T	7.16Y	119.4	0.00	5.59	0.01	0	0	0	100	0.00	0.0	11.966	0.003	0	0	0	1
PL.61523	PD.9219	C	#4 ACSR	7.16Y	119.4	0.00	5.59	0.01	0	0	0	100	0.00	0.0	12.034	0.068	0	0	1	1
PL.61524	PL.49454	C	#1/0 ACSR	7.16Y	119.4	0.00	5.59	1.11	0	8	2	97	0.00	0.0	11.966	0.003	0	0	0	2
PD.9220	PL.61524	C	12T	7.16Y	119.4	0.00	5.59	1.11	0	8	2	97	0.00	0.0	11.966	0.003	0	0	0	2
PL.61525	PD.9220	C	#1/0 ACSR	7.16Y	119.4	0.00	5.59	1.11	0	8	2	97	0.00	0.0	12.111	0.146	3	1	1	2
PL.58991	PL.61525	C	#1/0 ACSR	7.16Y	119.4	0.00	5.59	0.65	0	5	1	98	0.00	0.0	12.344	0.233	5	1	1	1
PL.58990	PL.61525	C	#4 ACSR	7.16Y	119.4	0.00	5.59	0.00	0	0	0	100	0.00	0.0	12.168	0.057	0	0	0	0
PL.61514	PL.49179	C	#2 ACSR	7.17Y	119.6	0.00	5.43	1.54	1	11	2	98	0.00	0.0	10.902	0.003	0	0	0	2
PD.9215	PL.61514	C	12T	7.17Y	119.6	0.00	5.43	1.54	0	11	2	98	0.00	0.0	10.902	0.003	0	0	0	2
PL.61515	PD.9215	C	#2 ACSR	7.17Y	119.6	0.00	5.44	1.54	1	11	2	98	0.00	0.0	11.004	0.102	11	2	2	2
PL.49176	PL.49175	C	6 A (CWC)	7.18Y	119.6	0.00	5.35	2.85	2	20	4	98	0.00	0.0	10.674	0.006	0	0	0	3
PD.7340	PL.49176	C	25T	7.18Y	119.6	0.00	5.35	2.85	0	20	4	98	0.00	0.0	10.674	0.006	0	0	0	3
PL.49177	PD.7340	C	6 A (CWC)	7.18Y	119.6	0.01	5.37	2.85	2	20	4	98	0.00	0.0	10.834	0.161	11	2	2	3
PL.49178	PL.49177	C	6 A (CWC)	7.18Y	119.6	0.00	5.37	1.27	1	9	2	98	0.00	0.0	10.972	0.138	9	2	1	1
PL.61510	PL.49173	C	6 A (CWC)	7.18Y	119.7	0.00	5.28	0.37	0	3	1	95	0.00	0.0	10.522	0.003	0	0	0	2
PD.9213	PL.61510	C	12T	7.18Y	119.7	0.00	5.28	0.37	0	3	1	95	0.00	0.0	10.522	0.003	0	0	0	2
PL.61511	PD.9213	C	6 A (CWC)	7.18Y	119.7	0.00	5.28	0.37	0	3	1	95	0.00	0.0	10.569	0.047	3	1	2	2
PL.61502	PL.49168	C	#4 ACSR	7.20Y	120.1	0.00	4.92	2.98	2	21	5	97	0.00	0.0	10.007	0.003	0	0	0	4
PD.9210	PL.61502	C	15T	7.20Y	120.1	0.00	4.92	2.98	0	21	5	97	0.00	0.0	10.007	0.003	0	0	0	4
PL.61503	PD.9210	C	#4 ACSR	7.20Y	120.1	0.01	4.92	2.98	2	21	5	97	0.00	0.0	10.065	0.058	11	2	2	4
PL.49170	PL.61503	C	#4 ACSR	7.20Y	120.1	0.00	4.93	1.41	1	10	2	98	0.00	0.0	10.113	0.048	10	2	2	2
PL.61496	PL.61495	C	6 A (CWC)	7.24Y	120.7	0.00	4.35	16.56	12	117	26	98	0.00	0.0	9.453	0.002	0	0	0	14
PD.9207	PL.61496	C	30T	7.24Y	120.7	0.00	4.35	16.56	0	117	26	98	0.00	0.0	9.453	0.002	0	0	0	14
PL.61497	PD.9207	C	6 A (CWC)	7.24Y	120.6	0.06	4.41	16.56	12	117	26	98	0.05	0.0	9.533	0.080	10	2	2	14
PL.49059	PL.61497	C	6 A (CWC)	7.23Y	120.5	0.05	4.46	15.15	11	107	24	98	0.04	0.0	9.608	0.075	0	0	0	12
PL.49060	PL.49059	C	6 A (CWC)	7.23Y	120.5	0.01	4.47	11.78	8	83	18	98	0.01	0.0	9.641	0.033	30	7	3	9
PL.57623	PL.49060	C	6 A (CWC)	7.23Y	120.5	0.01	4.48	7.49	5	53	12	98	0.00	0.0	9.686	0.045	16	4	2	6
PL.57624	PL.57623	C	6 A (CWC)	7.23Y	120.5	0.01	4.49	5.24	4	37	8	98	0.00	0.0	9.729	0.044	17	4	2	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: Brodhead

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.49061	PL.57624	C	6 A (CWC)	7.23Y	120.5	0.00	4.50	2.77	2	20	4	98	0.00	0.0	9.807	0.078	20	4	2	2
PL.47762	PL.49059	C	#4 ACSR	7.23Y	120.5	0.00	4.46	3.37	3	24	5	98	0.00	0.0	9.641	0.032	24	5	3	3
PL.47781	PL.49222	ABC	#1/0 ACSR	7.24Y	120.7	0.00	4.26	0.16	0	3	2	83	0.00	0.0	9.493	0.130	3	2	1	1
PL.48443	PL.48444	ABC	#1/0 ACSR	7.25Y	120.9	0.02	4.14	22.56	10	479	108	98	0.07	0.0	8.951	0.054	2	0	1	86
PL.48445	PL.48443	ABC	#1/0 ACSR	7.25Y	120.8	0.03	4.17	22.46	10	477	107	98	0.11	0.0	9.036	0.085	0	0	0	85
PL.48446	PL.48445	ABC	#1/0 ACSR	7.24Y	120.7	0.10	4.27	22.00	10	467	105	98	0.34	0.1	9.297	0.261	0	0	0	84
PL.49072	PL.48446	ABC	#1/0 ACSR	7.24Y	120.7	0.07	4.34	22.00	10	466	105	98	0.22	0.0	9.471	0.174	0	0	0	84
PL.49100	PL.49072	ABC	#1/0 ACSR	7.24Y	120.6	0.02	4.36	21.56	9	457	103	98	0.06	0.0	9.518	0.047	0	0	0	82
PL.49102	PL.49100	C	#2 ACSR	7.24Y	120.6	0.00	4.36	1.56	1	11	2	98	0.00	0.0	9.524	0.006	0	0	0	1
PD.7350	PL.49102	C	50QA	7.24Y	120.6	0.00	4.36	1.56	3	11	2	98	0.00	0.0	9.524	0.006	0	0	0	1
PL.49162	PD.7350	C	#2 ACSR	7.24Y	120.6	0.00	4.36	1.56	1	11	2	98	0.00	0.0	9.544	0.020	11	2	1	1
PL.47558	PL.49100	A	#2 ACSR	7.24Y	120.6	0.00	4.36	1.18	1	8	2	97	0.00	0.0	9.630	0.113	8	2	1	1
PL.49101	PL.49100	ABC	#1/0 ACSR	7.24Y	120.6	0.04	4.40	20.64	9	437	98	98	0.14	0.0	9.639	0.121	0	0	0	80
PL.48450	PL.49101	ABC	#1/0 ACSR	7.24Y	120.6	0.00	4.40	20.64	9	437	98	98	0.00	0.0	9.640	0.001	3	1	1	80
PL.49069	PL.48450	ABC	#1/0 ACSR	7.23Y	120.5	0.06	4.47	20.50	9	434	97	98	0.20	0.0	9.817	0.177	0	0	0	79
PL.49070	PL.49069	ABC	#1/0 ACSR	7.23Y	120.5	0.03	4.50	20.09	9	425	95	98	0.09	0.0	9.903	0.086	0	0	0	78
PL.49071	PL.49070	ABC	#1/0 ACSR	7.23Y	120.4	0.07	4.57	18.90	8	400	90	98	0.20	0.1	10.114	0.211	0	0	0	76
PL.48395	PL.49071	ABC	#1/0 ACSR	7.22Y	120.4	0.04	4.60	17.35	8	367	82	98	0.10	0.0	10.239	0.125	0	0	0	73
PL.52680	PL.48395	ABC	#1/0 ACSR	7.22Y	120.4	0.01	4.62	17.35	8	367	82	98	0.04	0.0	10.284	0.045	0	0	0	73
PL.52681	PL.52680	A	6 A (CWC)	7.22Y	120.4	0.00	4.62	0.15	0	1	0	100	0.00	0.0	10.291	0.007	0	0	0	1
PD.7474	PL.52681	A	50QA	7.22Y	120.4	0.00	4.62	0.15	0	1	0	100	0.00	0.0	10.291	0.007	0	0	0	1
PL.48394	PD.7474	A	6 A (CWC)	7.22Y	120.4	0.00	4.62	0.15	0	1	0	100	0.00	0.0	10.341	0.050	1	0	1	1
PL.52682	PL.52680	ABC	#1/0 ACSR	7.22Y	120.4	0.03	4.64	15.22	7	322	72	98	0.06	0.0	10.389	0.105	23	5	2	61
PL.48607	PL.52682	A	#2 ACSR	7.22Y	120.4	0.00	4.64	0.00	0	0	0	100	0.00	0.0	10.397	0.007	0	0	0	0
PD.7353	PL.48607	A	50QA	7.22Y	120.4	0.00	4.64	0.00	0	0	0	100	0.00	0.0	10.397	0.007	0	0	0	0
PL.48608	PD.7353	A	#2 ACSR	7.22Y	120.4	0.00	4.64	0.00	0	0	0	100	0.00	0.0	10.418	0.022	0	0	0	0
PL.48606	PL.52682	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.65	14.13	6	299	67	98	0.01	0.0	10.416	0.026	0	0	0	59
PL.58996	PL.48606	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.66	14.13	6	299	67	98	0.02	0.0	10.460	0.044	12	3	2	59
PL.64600	PL.58996	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.68	13.56	6	287	64	98	0.03	0.0	10.514	0.054	0	0	0	57
PL.64601	PL.64600	ABC	#1/0 ACSR	7.22Y	120.3	0.00	4.68	13.56	6	287	64	98	0.00	0.0	10.514	0.000	11	3	1	57
PL.48926	PL.64601	C	#2 ACSR	7.22Y	120.3	0.00	4.68	0.00	0	0	0	100	0.00	0.0	10.520	0.007	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: Brodhead

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.7354	PL.48926	C	50QA	7.22Y	120.3	0.00	4.68	0.00	0	0	0	100	0.00	0.0	10.520	0.007	0	0	0	0
PL.57685	PD.7354	C	#2 ACSR	7.22Y	120.3	0.00	4.68	0.00	0	0	0	100	0.00	0.0	10.540	0.020	0	0	0	0
PL.48927	PL.64601	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.69	13.02	6	275	62	98	0.02	0.0	10.568	0.054	0	0	1	56
PL.48928	PL.48927	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.70	12.69	6	268	60	98	0.02	0.0	10.614	0.046	0	0	0	54
PL.47375	PL.48928	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.71	12.69	6	268	60	98	0.02	0.0	10.660	0.046	0	0	0	53
PL.47376	PL.47375	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.72	12.69	6	268	60	98	0.02	0.0	10.704	0.045	0	0	0	53
PL.47224	PL.47376	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.73	12.34	5	261	58	98	0.03	0.0	10.766	0.062	0	0	0	52
PL.48609	PL.47224	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.74	11.83	5	250	56	98	0.01	0.0	10.793	0.027	0	0	0	51
PL.48610	PL.48609	ABC	#1/0 ACSR	7.21Y	120.2	0.03	4.76	11.83	5	250	56	98	0.05	0.0	10.925	0.131	0	0	0	51
PL.48931	PL.48610	C	#2 ACSR	7.21Y	120.2	0.00	4.76	0.00	0	0	0	100	0.00	0.0	10.931	0.007	0	0	0	0
PD.7357	PL.48931	C	50QA	7.21Y	120.2	0.00	4.76	0.00	0	0	0	100	0.00	0.0	10.931	0.007	0	0	0	0
PL.48932	PD.7357	C	#2 ACSR	7.21Y	120.2	0.00	4.76	0.00	0	0	0	100	0.00	0.0	11.097	0.165	0	0	0	0
PL.48933	PL.48610	ABC	#1/0 ACSR	7.21Y	120.2	0.04	4.81	11.14	5	235	53	98	0.07	0.0	11.151	0.226	1	0	1	50
PL.61911	PL.48933	ABC	#1/0 ACSR	7.21Y	120.2	0.02	4.83	11.09	5	234	52	98	0.04	0.0	11.265	0.114	5	1	1	49
PL.61912	PL.61911	ABC	#1/0 ACSR	7.21Y	120.1	0.05	4.88	10.85	5	229	51	98	0.08	0.0	11.524	0.259	0	0	0	48
PL.61913	PL.61912	AB	#1/0 ACSR	7.21Y	120.1	0.02	4.90	11.48	5	162	36	98	0.02	0.0	11.596	0.072	0	0	0	33
PD.8852	PL.61913	AB	50L	7.21Y	120.1	0.00	4.90	11.48	23	161	36	98	0.00	0.0	11.596	0.072	0	0	0	33
PL.59752	PD.8852	AB	#1/0 ACSR	7.21Y	120.1	0.01	4.90	11.48	5	161	36	98	0.01	0.0	11.633	0.037	0	0	0	33
PL.59753	PL.59752	AB	#1/0 ACSR	7.20Y	120.1	0.02	4.92	11.48	5	161	36	98	0.02	0.0	11.699	0.066	0	0	0	33
PL.59755	PL.59753	A	#1/0 ACSR	7.20Y	120.1	0.00	4.92	0.00	0	0	0	100	0.00	0.0	11.702	0.003	0	0	0	0
PD.8853	PL.59755	A	12T	7.20Y	120.1	0.00	4.92	0.00	0	0	0	100	0.00	0.0	11.702	0.003	0	0	0	0
PL.59756	PD.8853	A	#1/0 ACSR	7.20Y	120.1	0.00	4.92	0.00	0	0	0	100	0.00	0.0	11.775	0.073	0	0	0	0
PL.59754	PL.59753	AB	#1/0 ACSR	7.20Y	120.1	0.01	4.93	11.48	5	161	36	98	0.01	0.0	11.750	0.052	0	0	0	33
PL.60055	PL.59754	AB	#1/0 ACSR	7.20Y	120.0	0.03	4.96	10.66	5	150	33	98	0.03	0.0	11.900	0.149	0	0	0	32
PL.60056	PL.60055	B	#2 ACSR	7.20Y	120.0	0.00	4.96	7.05	4	50	11	98	0.00	0.0	11.903	0.003	0	0	0	7
PD.8926	PL.60056	B	12T	7.20Y	120.0	0.00	4.96	7.05	0	50	11	98	0.00	0.0	11.903	0.003	0	0	0	7
PL.60175	PD.8926	B	#2 ACSR	7.20Y	120.0	0.01	4.98	7.05	4	50	11	98	0.00	0.0	11.980	0.077	12	3	1	7
PL.60152	PL.60175	B	#2 ACSR	7.20Y	120.0	0.01	4.99	5.35	3	38	8	98	0.00	0.0	12.030	0.050	2	0	2	6
PL.60153	PL.60152	B	#2 ACSR	7.20Y	120.0	0.02	5.00	5.11	3	36	8	98	0.00	0.0	12.172	0.142	16	4	2	4
PL.60154	PL.60153	B	#1/0 ACSR	7.20Y	120.0	0.00	5.01	2.85	1	20	4	98	0.00	0.0	12.226	0.053	20	4	2	2
PL.60195	PL.60055	A	6 A (CWC)	7.20Y	120.0	0.00	4.96	2.91	2	20	5	97	0.00	0.0	11.903	0.003	0	0	0	4

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Balanced Voltage Drop Report
Source: Brodhead

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.8933	PL.60195	A	25T	7.20Y	120.0	0.00	4.96	2.91	0	20	5	97	0.00	0.0	11.903	0.003	0	0	0	4
PL.60197	PD.8933	A	6 A (CWC)	7.20Y	120.0	0.04	5.00	2.91	2	20	5	97	0.01	0.0	12.221	0.318	5	1	1	4
PL.60196	PL.60197	A	6 A (CWC)	7.20Y	120.0	0.01	5.01	2.14	2	15	3	98	0.00	0.0	12.281	0.059	0	0	0	3
PL.60193	PL.60196	A	#2 ACSR	7.20Y	120.0	0.00	5.01	1.70	1	12	3	97	0.00	0.0	12.314	0.034	12	3	1	1
PL.60194	PL.60196	A	6 A (CWC)	7.20Y	120.0	0.00	5.01	0.44	0	3	1	95	0.00	0.0	12.338	0.057	0	0	0	2
PL.49145	PL.60194	A	6 A (CWC)	7.20Y	120.0	0.00	5.01	0.00	0	0	0	100	0.00	0.0	12.522	0.185	0	0	0	0
PL.46803	PL.60194	A	6 A (CWC)	7.20Y	120.0	0.00	5.01	0.44	0	3	1	95	0.00	0.0	12.435	0.097	3	1	2	2
PL.60057	PL.60055	AB	#1/0 ACSR	7.20Y	120.0	0.01	4.97	5.68	2	80	18	98	0.01	0.0	12.007	0.107	5	1	1	21
PL.60177	PL.60057	AB	#1/0 ACSR	7.20Y	120.0	0.01	4.98	5.32	2	75	17	98	0.00	0.0	12.094	0.087	0	0	0	20
PL.60179	PL.60177	AB	#1/0 ACSR	7.20Y	120.0	0.01	4.99	4.92	2	69	15	98	0.00	0.0	12.196	0.102	5	1	1	19
PL.60180	PL.60179	AB	#1/0 ACSR	7.20Y	120.0	0.01	5.00	4.59	2	65	14	98	0.00	0.0	12.305	0.109	0	0	1	18
PL.60181	PL.60180	AB	#1/0 ACSR	7.20Y	120.0	0.01	5.02	4.59	2	65	14	98	0.01	0.0	12.440	0.135	0	0	0	17
PL.60184	PL.60181	AB	#1/0 ACSR	7.20Y	120.0	0.01	5.03	4.59	2	65	14	98	0.01	0.0	12.567	0.127	0	0	0	17
PL.60185	PL.60184	B	#2 ACSR	7.20Y	120.0	0.00	5.03	1.00	1	7	2	96	0.00	0.0	12.570	0.003	0	0	0	1
PD.8928	PL.60185	B	20T	7.20Y	120.0	0.00	5.03	1.00	0	7	2	96	0.00	0.0	12.570	0.003	0	0	0	1
PL.60182	PD.8928	B	#2 ACSR	7.20Y	120.0	0.00	5.03	1.00	1	7	2	96	0.00	0.0	12.640	0.069	7	2	1	1
PL.60186	PL.60184	A	#4 ACSR	7.20Y	120.0	0.00	5.03	0.70	1	5	1	98	0.00	0.0	12.571	0.004	0	0	0	4
PD.8929	PL.60186	A	20T	7.20Y	120.0	0.00	5.03	0.70	0	5	1	98	0.00	0.0	12.571	0.004	0	0	0	4
PL.60183	PD.8929	A	#4 ACSR	7.20Y	120.0	0.00	5.03	0.70	1	5	1	98	0.00	0.0	12.685	0.114	0	0	0	4
PL.47662	PL.60183	A	#4 ACSR	7.20Y	120.0	0.00	5.03	0.21	0	1	0	100	0.00	0.0	12.763	0.079	1	0	1	1
PL.49456	PL.60183	A	#4 ACSR	7.20Y	120.0	0.00	5.03	0.49	0	3	1	95	0.00	0.0	12.703	0.018	2	0	1	3
PL.49457	PL.49456	A	#4 ACSR	7.20Y	120.0	0.00	5.03	0.22	0	2	0	100	0.00	0.0	12.809	0.106	1	0	1	2
PL.49455	PL.49457	A	#4 ACSR	7.20Y	120.0	0.00	5.03	0.07	0	1	0	100	0.00	0.0	12.853	0.044	1	0	1	1
PL.60187	PL.60184	AB	#1/0 ACSR	7.20Y	120.0	0.02	5.05	3.74	2	53	12	98	0.01	0.0	12.852	0.285	3	1	2	12
PL.60190	PL.60187	B	6 A (CWC)	7.20Y	120.0	0.00	5.05	5.15	4	36	8	98	0.00	0.0	12.855	0.003	0	0	0	9
PD.8931	PL.60190	B	40QA	7.20Y	120.0	0.00	5.05	5.15	13	36	8	98	0.00	0.0	12.855	0.003	0	0	0	9
PL.60191	PD.8931	B	6 A (CWC)	7.20Y	119.9	0.01	5.06	5.15	4	36	8	98	0.00	0.0	12.904	0.049	0	0	0	9
PD.8932	PL.60191	B	100CodeSMo	7.20Y	119.9	0.00	5.06	5.15	0	36	8	98	0.00	0.0	12.904	0.049	0	0	0	9
PL.60192	PD.8932	B	6 A (CWC)	7.19Y	119.8	0.10	5.16	5.15	4	36	8	98	0.03	0.1	13.344	0.440	0	0	0	9
PL.61936	PL.60192	B	6 A (CWC)	7.19Y	119.8	0.00	5.16	0.75	1	5	1	98	0.00	0.0	13.347	0.003	0	0	0	1
PD.9253	PL.61936	B	10T	7.19Y	119.8	0.00	5.16	0.75	0	5	1	98	0.00	0.0	13.347	0.003	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: Brodhead

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.61937	PD.9253	B	6 A (CWC)	7.19Y	119.8	0.00	5.16	0.75	1	5	1	98	0.00	0.0	13.460	0.113	5	1	1	1
PL.49458	PL.60192	B	6 A (CWC)	7.19Y	119.8	0.02	5.18	4.40	3	31	7	98	0.00	0.0	13.439	0.095	2	1	1	8
PL.49459	PL.49458	B	6 A (CWC)	7.19Y	119.8	0.03	5.21	4.07	3	29	6	98	0.01	0.0	13.616	0.177	3	1	1	7
PL.49460	PL.49459	B	6 A (CWC)	7.19Y	119.8	0.01	5.22	3.66	3	26	6	97	0.00	0.0	13.687	0.072	0	0	1	6
PL.49461	PL.49460	B	6 A (CWC)	7.19Y	119.8	0.00	5.23	3.66	3	26	6	97	0.00	0.0	13.708	0.020	0	0	0	5
PL.49462	PL.49461	B	6 A (CWC)	7.19Y	119.8	0.00	5.23	0.01	0	0	0	100	0.00	0.0	13.897	0.189	0	0	1	1
PL.48161	PL.49461	B	#4 ACSR	7.18Y	119.7	0.04	5.27	3.65	3	26	6	97	0.01	0.0	13.964	0.256	0	0	0	4
PL.61941	PL.48161	B	#4 ACSR	7.18Y	119.7	0.00	5.27	3.65	3	26	6	97	0.00	0.0	13.966	0.003	0	0	0	4
PD.9254	PL.61941	B	15T	7.18Y	119.7	0.00	5.27	3.65	0	26	6	97	0.00	0.0	13.966	0.003	0	0	0	4
PL.61940	PD.9254	B	6 A (CWC)	7.18Y	119.7	0.05	5.32	3.65	3	26	6	97	0.01	0.0	14.307	0.340	2	0	1	4
PL.61939	PL.61940	B	6 A (CWC)	7.18Y	119.6	0.04	5.37	3.41	2	24	5	98	0.01	0.0	14.589	0.283	0	0	0	3
PL.49948	PL.61939	B	6 A (CWC)	7.18Y	119.6	0.01	5.38	3.41	2	24	5	98	0.00	0.0	14.674	0.085	0	0	0	3
PL.50282	PL.49948	B	#4 ACSR 7/	7.18Y	119.6	0.00	5.38	0.75	1	5	1	98	0.00	0.0	14.742	0.067	5	1	1	1
PL.55962	PL.49948	B	6 A (CWC)	7.18Y	119.6	0.00	5.38	2.66	2	19	4	98	0.00	0.0	14.705	0.031	13	3	1	2
PL.55961	PL.55962	B	6 A (CWC)	7.18Y	119.6	0.02	5.40	0.79	1	6	1	99	0.00	0.0	15.191	0.486	0	0	0	1
PL.49949	PL.55961	B	6 A (CWC)	7.18Y	119.6	0.02	5.41	0.79	1	6	1	99	0.00	0.0	15.625	0.434	0	0	0	1
PL.49950	PL.49949	B	6 A (CWC)	7.18Y	119.6	0.00	5.41	0.79	1	6	1	99	0.00	0.0	15.652	0.027	0	0	0	1
PL.50141	PL.49950	B	6 A (CWC)	7.17Y	119.6	0.00	5.42	0.79	1	6	1	99	0.00	0.0	15.804	0.151	6	1	1	1
PL.49807	PL.50141	B	#4 ACSR 7/	7.17Y	119.6	0.00	5.42	0.00	0	0	0	100	0.00	0.0	16.061	0.257	0	0	0	0
PL.61943	PL.49950	B	6 A (CWC)	7.18Y	119.6	0.00	5.41	0.00	0	0	0	100	0.00	0.0	15.926	0.273	0	0	0	0
PL.60188	PL.60187	B	6 A (CWC)	7.20Y	120.0	0.00	5.05	1.93	1	14	3	98	0.00	0.0	12.855	0.003	0	0	0	1
PD.8930	PL.60188	B	15T	7.20Y	120.0	0.00	5.05	1.93	0	14	3	98	0.00	0.0	12.855	0.003	0	0	0	1
PL.60189	PD.8930	B	6 A (CWC)	7.20Y	119.9	0.00	5.05	1.93	1	14	3	98	0.00	0.0	12.930	0.075	14	3	1	1
PL.60178	PL.60177	B	#2 ACSR	7.20Y	120.0	0.00	4.98	0.79	0	6	1	99	0.00	0.0	12.097	0.003	0	0	0	1
PD.8927	PL.60178	B	10T	7.20Y	120.0	0.00	4.98	0.79	0	6	1	99	0.00	0.0	12.097	0.003	0	0	0	1
PL.60176	PD.8927	B	#2 ACSR	7.20Y	120.0	0.00	4.98	0.79	0	6	1	99	0.00	0.0	12.158	0.061	6	1	1	1
PL.59757	PL.59754	B	#2 ACSR	7.20Y	120.1	0.00	4.93	1.64	1	12	3	97	0.00	0.0	11.754	0.003	0	0	0	1
PD.8854	PL.59757	B	40QA	7.20Y	120.1	0.00	4.93	1.64	4	12	3	97	0.00	0.0	11.754	0.003	0	0	0	1
PL.60054	PD.8854	B	#2 ACSR	7.20Y	120.1	0.00	4.93	1.64	1	12	3	97	0.00	0.0	11.786	0.033	12	3	1	1
PL.61914	PL.61912	C	6 A (CWC)	7.21Y	120.1	0.00	4.88	9.60	7	68	15	98	0.00	0.0	11.527	0.003	0	0	0	15
PD.9242	PL.61914	C	35L	7.21Y	120.1	0.00	4.88	9.60	27	68	15	98	0.00	0.0	11.527	0.003	0	0	0	15

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: Brodhead

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.61915	PD.9242	C	6 A (CWC)	7.20Y	120.0	0.13	5.01	9.60	7	68	15	98	0.06	0.1	11.861	0.334	13	3	1	15
PL.61910	PL.61915	C	6 A (CWC)	7.19Y	119.8	0.19	5.20	7.69	5	54	12	98	0.08	0.1	12.420	0.559	0	0	0	14
PL.47225	PL.61910	C	6 A (CWC)	7.18Y	119.7	0.08	5.28	7.22	5	51	11	98	0.03	0.1	12.654	0.234	0	0	0	12
PL.61922	PL.47225	C	6 A (CWC)	7.18Y	119.7	0.00	5.28	3.39	2	24	5	98	0.00	0.0	12.657	0.003	0	0	0	5
PD.9246	PL.61922	C	20T	7.18Y	119.7	0.00	5.28	3.39	0	24	5	98	0.00	0.0	12.657	0.003	0	0	0	5
PL.61923	PD.9246	C	6 A (CWC)	7.18Y	119.7	0.03	5.31	3.39	2	24	5	98	0.01	0.0	12.876	0.220	0	0	0	5
PL.59015	PL.61923	C	6 A (CWC)	7.18Y	119.7	0.02	5.33	3.12	2	22	5	98	0.00	0.0	13.003	0.127	0	0	1	4
PL.59016	PL.59015	C	6 A (CWC)	7.18Y	119.7	0.01	5.34	3.12	2	22	5	98	0.00	0.0	13.081	0.078	0	0	0	3
PL.49421	PL.59016	C	6 A (CWC)	7.18Y	119.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	13.198	0.117	0	0	0	0
PL.47323	PL.49421	C	6 A (CWC)	7.18Y	119.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	13.297	0.099	0	0	0	0
PL.52262	PL.49421	C	6 A (CWC)	7.18Y	119.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	13.298	0.099	0	0	0	0
PL.52263	PL.52262	C	6 A (CWC)	7.18Y	119.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	13.949	0.652	0	0	0	0
PD.7966-A	PL.52263	C	Open	7.18Y	119.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	13.949	0.652	0	0	0	0
PL.52261	PL.52262	C	6 A (CWC)	7.18Y	119.7	0.00	5.34	0.00	0	0	0	100	0.00	0.0	13.735	0.437	0	0	0	0
PL.61926	PL.59016	C	6 A (CWC)	7.18Y	119.7	0.00	5.34	3.12	2	22	5	98	0.00	0.0	13.084	0.003	0	0	0	3
PD.9248	PL.61926	C	12T	7.18Y	119.7	0.00	5.34	3.12	0	22	5	98	0.00	0.0	13.084	0.003	0	0	0	3
PL.61927	PD.9248	C	6 A (CWC)	7.18Y	119.6	0.01	5.35	3.12	2	22	5	98	0.00	0.0	13.166	0.082	8	2	1	3
PL.49420	PL.61927	C	6 A (CWC)	7.18Y	119.6	0.00	5.35	2.05	1	14	3	98	0.00	0.0	13.208	0.042	14	3	2	2
PL.61924	PL.61923	C	6 A (CWC)	7.18Y	119.7	0.00	5.31	0.27	0	2	0	100	0.00	0.0	12.879	0.003	0	0	0	1
PD.9247	PL.61924	C	10T	7.18Y	119.7	0.00	5.31	0.27	0	2	0	100	0.00	0.0	12.879	0.003	0	0	0	1
PL.61925	PD.9247	C	6 A (CWC)	7.18Y	119.7	0.00	5.31	0.27	0	2	0	100	0.00	0.0	12.924	0.045	2	0	1	1
PL.61920	PL.47225	C	6 A (CWC)	7.18Y	119.7	0.00	5.28	3.83	3	27	6	98	0.00	0.0	12.657	0.003	0	0	0	7
PD.9245	PL.61920	C	20T	7.18Y	119.7	0.00	5.28	3.83	0	27	6	98	0.00	0.0	12.657	0.003	0	0	0	7
PL.61921	PD.9245	C	6 A (CWC)	7.18Y	119.7	0.06	5.34	3.83	3	27	6	98	0.01	0.0	12.979	0.322	0	0	0	7
PL.47405	PL.61921	C	6 A (CWC)	7.18Y	119.7	0.01	5.35	2.96	2	21	5	97	0.00	0.0	13.066	0.087	0	0	0	5
PL.46807	PL.47405	C	6 A (CWC)	7.18Y	119.7	0.00	5.35	0.00	0	0	0	100	0.00	0.0	13.126	0.060	0	0	1	1
PL.47514	PL.47405	C	6 A (CWC)	7.18Y	119.6	0.01	5.36	2.95	2	21	5	97	0.00	0.0	13.146	0.080	1	0	1	4
PL.47625	PL.47514	C	6 A (CWC)	7.18Y	119.6	0.01	5.37	2.76	2	19	4	98	0.00	0.0	13.245	0.099	0	0	0	3
PL.61932	PL.47625	C	6 A (CWC)	7.18Y	119.6	0.00	5.37	0.00	0	0	0	100	0.00	0.0	13.248	0.003	0	0	0	0
PD.9251	PL.61932	C	12T	7.18Y	119.6	0.00	5.37	0.00	0	0	0	100	0.00	0.0	13.248	0.003	0	0	0	0
PL.61933	PD.9251	C	#1/0 ACSR	7.18Y	119.6	0.00	5.37	0.00	0	0	0	100	0.00	0.0	13.484	0.237	0	0	0	0

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Balanced Voltage Drop Report
Source: Brodhead

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.47626	PL.61933	C	#1/0 ACSR	7.18Y	119.6	0.00	5.37	0.00	0	0	0	100	0.00	0.0	13.567	0.083	0	0	0	0
PL.61934	PL.47625	C	6 A (CWC)	7.18Y	119.6	0.00	5.37	2.76	2	19	4	98	0.00	0.0	13.248	0.003	0	0	0	3
PD.9252	PL.61934	C	12T	7.18Y	119.6	0.00	5.37	2.76	0	19	4	98	0.00	0.0	13.248	0.003	0	0	0	3
PL.61935	PD.9252	C	6 A (CWC)	7.18Y	119.6	0.01	5.38	2.76	2	19	4	98	0.00	0.0	13.356	0.108	11	2	1	3
PL.58997	PL.61935	C	6 A (CWC)	7.18Y	119.6	0.00	5.38	1.17	1	8	2	97	0.00	0.0	13.417	0.062	0	0	1	2
PL.58998	PL.58997	C	#4 ACSR	7.18Y	119.6	0.00	5.38	1.15	1	8	2	97	0.00	0.0	13.462	0.045	8	2	1	1
PL.56852	PL.61935	C	#4 ACSR	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	13.412	0.056	0	0	0	0
PL.61930	PL.47405	C	#4 ACSR	7.18Y	119.7	0.00	5.35	0.00	0	0	0	100	0.00	0.0	13.069	0.003	0	0	0	0
PD.9250	PL.61930	C	12T	7.18Y	119.7	0.00	5.35	0.00	0	0	0	100	0.00	0.0	13.069	0.003	0	0	0	0
PL.61931	PD.9250	C	#4 ACSR	7.18Y	119.7	0.00	5.35	0.00	0	0	0	100	0.00	0.0	13.133	0.063	0	0	0	0
PL.61928	PL.61921	C	6 A (CWC)	7.18Y	119.7	0.00	5.34	0.88	1	6	1	99	0.00	0.0	12.982	0.003	0	0	0	2
PD.9249	PL.61928	C	12T	7.18Y	119.7	0.00	5.34	0.88	0	6	1	99	0.00	0.0	12.982	0.003	0	0	0	2
PL.61929	PD.9249	C	6 A (CWC)	7.18Y	119.7	0.00	5.34	0.88	1	6	1	99	0.00	0.0	13.061	0.079	3	1	1	2
PL.49422	PL.61929	C	6 A (CWC)	7.18Y	119.7	0.00	5.34	0.47	0	3	1	95	0.00	0.0	13.193	0.132	3	1	1	1
PL.61916	PL.61910	C	#1/0 ACSR	7.19Y	119.8	0.00	5.20	0.00	0	0	0	100	0.00	0.0	12.423	0.003	0	0	0	0
PD.9243	PL.61916	C	15T	7.19Y	119.8	0.00	5.20	0.00	0	0	0	100	0.00	0.0	12.423	0.003	0	0	0	0
PL.61917	PD.9243	C	#1/0 ACSR	7.19Y	119.8	0.00	5.20	0.00	0	0	0	100	0.00	0.0	12.458	0.035	0	0	0	0
PL.61918	PL.61910	C	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.47	0	3	1	95	0.00	0.0	12.423	0.003	0	0	0	2
PD.9244	PL.61918	C	15T	7.19Y	119.8	0.00	5.20	0.47	0	3	1	95	0.00	0.0	12.423	0.003	0	0	0	2
PL.61919	PD.9244	C	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.47	0	3	1	95	0.00	0.0	12.478	0.055	3	1	2	2
PL.48160	PL.48610	C	#2 ACSR	7.21Y	120.2	0.00	4.77	2.07	1	15	3	98	0.00	0.0	10.992	0.067	15	3	1	1
PL.48611	PL.47224	A	#2 ACSR	7.22Y	120.3	0.00	4.73	1.54	1	11	2	98	0.00	0.0	10.773	0.007	0	0	0	1
PD.7568	PL.48611	A	50QA	7.22Y	120.3	0.00	4.73	1.54	3	11	2	98	0.00	0.0	10.773	0.007	0	0	0	1
PL.48612	PD.7568	A	#2 ACSR	7.22Y	120.3	0.00	4.73	1.54	1	11	2	98	0.00	0.0	10.867	0.095	11	2	1	1
PL.47222	PL.47376	C	#2 ACSR	7.22Y	120.3	0.00	4.72	1.03	1	7	2	96	0.00	0.0	10.711	0.007	0	0	0	1
PD.7356	PL.47222	C	50QA	7.22Y	120.3	0.00	4.72	1.03	2	7	2	96	0.00	0.0	10.711	0.007	0	0	0	1
PL.47223	PD.7356	C	#2 ACSR	7.22Y	120.3	0.00	4.72	1.03	1	7	2	96	0.00	0.0	10.728	0.017	7	2	1	1
PL.48929	PL.48928	A	#2 ACSR	7.22Y	120.3	0.00	4.70	0.02	0	0	0	100	0.00	0.0	10.621	0.007	0	0	0	1
PD.7355	PL.48929	A	50QA	7.22Y	120.3	0.00	4.70	0.02	0	0	0	100	0.00	0.0	10.621	0.007	0	0	0	1
PL.48930	PD.7355	A	#2 ACSR	7.22Y	120.3	0.00	4.70	0.02	0	0	0	100	0.00	0.0	10.734	0.113	0	0	1	1
PL.47716	PL.48927	B	#2 ACSR	7.22Y	120.3	0.00	4.69	0.97	1	7	2	96	0.00	0.0	10.599	0.031	7	2	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: Brodhead

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.51555	PL.52680	A	6 A (CWC)	7.22Y	120.4	0.00	4.62	6.24	4	44	10	98	0.00	0.0	10.289	0.005	0	0	0	11
PD.7975	PL.51555	A	100CodeSMo	7.22Y	120.4	0.00	4.62	6.24	0	44	10	98	0.00	0.0	10.289	0.005	0	0	0	11
PL.59002	PD.7975	A	6 A (CWC)	7.22Y	120.4	0.03	4.65	6.24	4	44	10	98	0.01	0.0	10.392	0.103	3	1	1	11
PL.59001	PL.59002	A	6 A (CWC)	7.22Y	120.3	0.06	4.71	5.82	4	41	9	98	0.02	0.0	10.626	0.234	0	0	0	10
PL.47621	PL.59001	A	#4 ACSR	7.22Y	120.3	0.00	4.71	0.00	0	0	0	100	0.00	0.0	10.725	0.099	0	0	0	0
PL.48393	PL.59001	A	6 A (CWC)	7.22Y	120.3	0.03	4.74	5.82	4	41	9	98	0.01	0.0	10.739	0.113	0	0	0	10
PL.61528	PL.48393	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.79	1	6	1	99	0.00	0.0	10.743	0.003	0	0	0	1
PD.9222	PL.61528	A	12T	7.22Y	120.3	0.00	4.74	0.79	0	6	1	99	0.00	0.0	10.743	0.003	0	0	0	1
PL.61529	PD.9222	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.79	1	6	1	99	0.00	0.0	10.835	0.092	6	1	1	1
PL.61530	PL.48393	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.03	0	0	0	100	0.00	0.0	10.743	0.003	0	0	0	1
PD.9223	PL.61530	A	12T	7.22Y	120.3	0.00	4.74	0.03	0	0	0	100	0.00	0.0	10.743	0.003	0	0	0	1
PL.61531	PD.9223	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.03	0	0	0	100	0.00	0.0	10.830	0.088	0	0	1	1
PL.47447	PL.48393	A	6 A (CWC)	7.21Y	120.2	0.03	4.76	5.00	4	35	8	97	0.01	0.0	10.854	0.115	0	0	0	8
PL.61532	PL.47447	A	6 A (CWC)	7.21Y	120.2	0.00	4.76	0.17	0	1	0	100	0.00	0.0	10.857	0.003	0	0	0	1
PD.9224	PL.61532	A	12T	7.21Y	120.2	0.00	4.76	0.17	0	1	0	100	0.00	0.0	10.857	0.003	0	0	0	1
PL.61533	PD.9224	A	6 A (CWC)	7.21Y	120.2	0.00	4.76	0.17	0	1	0	100	0.00	0.0	10.937	0.079	1	0	1	1
PL.47528	PL.47447	A	6 A (CWC)	7.21Y	120.2	0.00	4.76	0.00	0	0	0	100	0.00	0.0	11.006	0.152	0	0	0	0
PL.61535	PL.47447	A	6 A (CWC)	7.21Y	120.2	0.00	4.76	4.83	3	34	8	97	0.00	0.0	10.857	0.003	0	0	0	7
PD.9225	PL.61535	A	12T	7.21Y	120.2	0.00	4.76	4.83	0	34	8	97	0.00	0.0	10.857	0.003	0	0	0	7
PL.61534	PD.9225	A	6 A (CWC)	7.21Y	120.2	0.06	4.82	4.83	3	34	8	97	0.01	0.0	11.138	0.281	7	1	1	7
PL.48392	PL.61534	A	6 A (CWC)	7.21Y	120.2	0.02	4.84	3.89	3	27	6	98	0.00	0.0	11.236	0.098	0	0	1	6
PL.48391	PL.48392	A	6 A (CWC)	7.21Y	120.1	0.02	4.86	3.89	3	27	6	98	0.00	0.0	11.369	0.133	3	1	1	5
PL.48390	PL.48391	A	6 A (CWC)	7.21Y	120.1	0.03	4.89	3.43	2	24	5	98	0.01	0.0	11.588	0.219	0	0	0	4
PL.48385	PL.48390	A	6 A (CWC)	7.21Y	120.1	0.00	4.89	0.01	0	0	0	100	0.00	0.0	11.720	0.132	0	0	0	1
PL.47747	PL.48385	A	6 A (CWC)	7.21Y	120.1	0.00	4.89	0.01	0	0	0	100	0.00	0.0	11.762	0.042	0	0	1	1
PL.61536	PL.48385	A	6 A (CWC)	7.21Y	120.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	11.723	0.003	0	0	0	0
PD.9226	PL.61536	A	12T	7.21Y	120.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	11.723	0.003	0	0	0	0
PL.61893	PD.9226	A	6 A (CWC)	7.21Y	120.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	11.830	0.107	0	0	0	0
PD.9235-A	PL.61893	A	Closed	7.21Y	120.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	11.830	0.107	0	0	0	0
PD.9235-B	PD.9235-A	A	Closed	7.21Y	120.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	11.830	0.107	0	0	0	0
PL.61892	PD.9235-B	A	6 A (CWC)	7.21Y	120.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	12.492	0.662	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: Brodhead

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.9234-B	PL.61892	A	Open	7.21Y	120.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	12.492	0.662	0	0	0	0
PL.48386	PL.48390	A	6 A (CWC)	7.21Y	120.1	0.01	4.90	3.42	2	24	5	98	0.00	0.0	11.666	0.078	0	0	0	3
PL.47906	PL.48386	A	6 A (CWC)	7.21Y	120.1	0.00	4.91	0.54	0	4	1	97	0.00	0.0	11.697	0.031	4	1	1	1
PL.48387	PL.48386	A	6 A (CWC)	7.21Y	120.1	0.00	4.91	2.88	2	20	4	98	0.00	0.0	11.694	0.028	9	2	1	2
PL.48388	PL.48387	A	6 A (CWC)	7.21Y	120.1	0.01	4.91	1.60	1	11	2	98	0.00	0.0	11.861	0.167	11	2	1	1
PL.48389	PL.48388	A	6 A (CWC)	7.21Y	120.1	0.00	4.91	0.00	0	0	0	100	0.00	0.0	11.909	0.048	0	0	0	0
PL.48603	PL.49071	C	#2 ACSR	7.23Y	120.4	0.00	4.57	3.02	2	21	5	97	0.00	0.0	10.140	0.026	12	3	1	2
PL.48604	PL.48603	C	#2 ACSR	7.23Y	120.4	0.00	4.57	1.35	1	10	2	98	0.00	0.0	10.170	0.031	0	0	0	1
PL.48605	PL.48604	C	#2 ACSR	7.23Y	120.4	0.00	4.57	1.35	1	10	2	98	0.00	0.0	10.240	0.070	10	2	1	1
PL.48913	PL.49071	A	#2 ACSR	7.23Y	120.4	0.00	4.57	1.62	1	11	3	96	0.00	0.0	10.117	0.003	0	0	0	1
PD.7473	PL.48913	A	50QA	7.23Y	120.4	0.00	4.57	1.62	3	11	3	96	0.00	0.0	10.117	0.003	0	0	0	1
PL.48602	PD.7473	A	#2 ACSR	7.23Y	120.4	0.00	4.57	1.62	1	11	3	96	0.00	0.0	10.229	0.112	11	3	1	1
PL.49166	PL.49070	C	#4 ACSR	7.23Y	120.5	0.00	4.50	3.59	3	25	6	97	0.00	0.0	9.909	0.006	0	0	0	2
PD.7352	PL.49166	C	12T	7.23Y	120.5	0.00	4.50	3.59	0	25	6	97	0.00	0.0	9.909	0.006	0	0	0	2
PL.56467	PD.7352	C	#4 ACSR	7.23Y	120.5	0.00	4.50	3.59	3	25	6	97	0.00	0.0	9.953	0.044	15	3	1	2
PL.56468	PL.56467	C	#4 ACSR	7.23Y	120.5	0.00	4.50	1.47	1	10	2	98	0.00	0.0	9.974	0.021	0	0	0	1
PL.56469	PL.56468	C	#4 ACSR	7.23Y	120.5	0.00	4.51	1.47	1	10	2	98	0.00	0.0	10.045	0.072	10	2	1	1
PL.49163	PL.49069	C	#4 ACSR	7.23Y	120.5	0.00	4.47	1.23	1	9	2	98	0.00	0.0	9.822	0.005	0	0	0	1
PD.7351	PL.49163	C	50QA	7.23Y	120.5	0.00	4.47	1.23	2	9	2	98	0.00	0.0	9.822	0.005	0	0	0	1
PL.49164	PD.7351	C	#4 ACSR	7.23Y	120.5	0.00	4.47	1.23	1	9	2	98	0.00	0.0	9.863	0.041	9	2	1	1
PL.49165	PL.49164	C	#4 ACSR	7.23Y	120.5	0.00	4.47	0.00	0	0	0	100	0.00	0.0	10.058	0.195	0	0	0	0
PL.61526	PL.48450	A	#1/0 ACSR	7.24Y	120.6	0.00	4.40	0.00	0	0	0	100	0.00	0.0	9.643	0.003	0	0	0	0
PD.9221	PL.61526	A	12T	7.24Y	120.6	0.00	4.40	0.00	0	0	0	100	0.00	0.0	9.643	0.003	0	0	0	0
PL.61527	PD.9221	A	#1/0 ACSR	7.24Y	120.6	0.00	4.40	0.00	0	0	0	100	0.00	0.0	9.678	0.035	0	0	0	0
PL.49075	PL.49072	A	#4 ACSR	7.24Y	120.7	0.00	4.34	1.32	1	9	2	98	0.00	0.0	9.477	0.006	0	0	0	2
PD.7567	PL.49075	A	50QA	7.24Y	120.7	0.00	4.34	1.32	3	9	2	98	0.00	0.0	9.477	0.006	0	0	0	2
PL.49076	PD.7567	A	#4 ACSR	7.24Y	120.7	0.01	4.35	1.32	1	9	2	98	0.00	0.0	9.684	0.207	9	2	1	2
PL.49073	PL.49076	A	#4 ACSR	7.24Y	120.7	0.00	4.35	0.09	0	1	0	100	0.00	0.0	9.754	0.070	1	0	1	1
PL.49074	PL.49073	A	#4 ACSR	7.24Y	120.7	0.00	4.35	0.00	0	0	0	100	0.00	0.0	9.995	0.241	0	0	0	0
PL.48447	PL.48445	C	6 A (CWC)	7.25Y	120.8	0.00	4.17	1.38	1	10	2	98	0.00	0.0	9.037	0.001	0	0	0	1
PD.7327	PL.48447	C	50QA	7.25Y	120.8	0.00	4.17	1.38	3	10	2	98	0.00	0.0	9.037	0.001	0	0	0	1

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Balanced Voltage Drop Report
Source: Brodhead

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.48448	PD.7327	C	6 A (CWC)	7.25Y	120.8	0.00	4.17	1.38	1	10	2	98	0.00	0.0	9.037	0.000	0	0	0	1
PL.48449	PL.48448	C	6 A (CWC)	7.25Y	120.8	0.00	4.17	1.38	1	10	2	98	0.00	0.0	9.114	0.076	10	2	1	1
CP.92	PL.52786	ABC	Cap (300)	7.26Y	120.9	0.00	4.05	0.00	0	0	0	100	0.00	0.0	8.756	0.076	0	0	0	0
PL.61878	PL.61541	A	#1/0 ACSR	7.27Y	121.2	0.00	3.82	0.00	0	0	0	100	0.00	0.0	8.259	0.003	0	0	0	0
PD.9229	PL.61878	A	15T	7.27Y	121.2	0.00	3.82	0.00	0	0	0	100	0.00	0.0	8.259	0.003	0	0	0	0
PL.61879	PD.9229	A	#1/0 ACSR	7.27Y	121.2	0.00	3.82	0.00	0	0	0	100	0.00	0.0	8.275	0.016	0	0	0	0
PL.47527	PL.47761	C	#4 ACSR	7.27Y	121.2	0.01	3.79	5.73	4	41	9	98	0.00	0.0	8.216	0.028	0	0	0	6
PL.61537	PL.47527	C	#4 ACSR	7.27Y	121.2	0.00	3.79	0.00	0	0	0	100	0.00	0.0	8.219	0.003	0	0	0	0
PD.9227	PL.61537	C	12T	7.27Y	121.2	0.00	3.79	0.00	0	0	0	100	0.00	0.0	8.219	0.003	0	0	0	0
PL.61538	PD.9227	C	#4 ACSR	7.27Y	121.2	0.00	3.79	0.00	0	0	0	100	0.00	0.0	8.294	0.075	0	0	0	0
PL.48378	PL.47527	C	#4 ACSR	7.27Y	121.2	0.00	3.79	5.73	4	41	9	98	0.00	0.0	8.217	0.001	0	0	0	6
PD.7607	PL.48378	C	50L	7.27Y	121.2	0.00	3.79	5.73	11	41	9	98	0.00	0.0	8.217	0.001	0	0	0	6
PL.61539	PD.7607	C	#4 ACSR	7.27Y	121.2	0.03	3.82	5.73	4	41	9	98	0.01	0.0	8.320	0.103	0	0	0	6
PD.9228-A	PL.61539	C	Closed	7.27Y	121.2	0.00	3.82	5.73	0	41	9	98	0.00	0.0	8.320	0.103	0	0	0	6
PD.9228-B	PD.9228-A	C	Closed	7.27Y	121.2	0.00	3.82	5.73	0	41	9	98	0.00	0.0	8.320	0.103	0	0	0	6
PL.61540	PD.9228-B	C	#4 ACSR	7.27Y	121.1	0.07	3.89	5.73	4	41	9	98	0.02	0.1	8.608	0.287	0	0	0	6
PL.48383	PL.61540	C	6 A (CWC)	7.27Y	121.1	0.00	3.89	0.00	0	0	0	100	0.00	0.0	8.609	0.001	0	0	0	0
PL.52671	PL.61540	C	6 A (CWC)	7.26Y	121.1	0.03	3.92	5.73	4	41	9	98	0.01	0.0	8.720	0.112	0	0	0	6
PL.61883	PL.52671	C	6 A (CWC)	7.26Y	121.1	0.00	3.92	2.28	2	16	4	97	0.00	0.0	8.723	0.003	0	0	0	2
PD.9230-A	PL.61883	C	Closed	7.26Y	121.1	0.00	3.92	2.28	0	16	4	97	0.00	0.0	8.723	0.003	0	0	0	2
PD.9230-B	PD.9230-A	C	Closed	7.26Y	121.1	0.00	3.92	2.28	0	16	4	97	0.00	0.0	8.723	0.003	0	0	0	2
PL.61884	PD.9230-B	C	6 A (CWC)	7.26Y	121.1	0.01	3.93	2.28	2	16	4	97	0.00	0.0	8.826	0.104	4	1	1	2
PL.48382	PL.61884	C	6 A (CWC)	7.26Y	121.1	0.00	3.93	1.72	1	12	3	97	0.00	0.0	8.855	0.028	0	0	0	1
PL.48384	PL.48382	C	6 A (CWC)	7.26Y	121.1	0.01	3.95	1.72	1	12	3	97	0.00	0.0	9.037	0.183	0	0	0	1
PL.61887	PL.48384	C	6 A (CWC)	7.26Y	121.1	0.00	3.95	1.72	1	12	3	97	0.00	0.0	9.040	0.003	0	0	0	1
PD.9232	PL.61887	C	15T	7.26Y	121.1	0.00	3.95	1.72	0	12	3	97	0.00	0.0	9.040	0.003	0	0	0	1
PL.61888	PD.9232	C	6 A (CWC)	7.26Y	121.1	0.00	3.95	1.72	1	12	3	97	0.00	0.0	9.092	0.052	12	3	1	1
PL.61889	PL.48384	C	6 A (CWC)	7.26Y	121.1	0.00	3.95	0.00	0	0	0	100	0.00	0.0	9.040	0.003	0	0	0	0
PD.9233	PL.61889	C	15T	7.26Y	121.1	0.00	3.95	0.00	0	0	0	100	0.00	0.0	9.040	0.003	0	0	0	0
PL.61890	PD.9233	C	6 A (CWC)	7.26Y	121.1	0.00	3.95	0.00	0	0	0	100	0.00	0.0	9.127	0.087	0	0	0	0
PL.61891	PL.48384	C	6 A (CWC)	7.26Y	121.1	0.00	3.95	0.00	0	0	0	100	0.00	0.0	9.040	0.003	0	0	0	0

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Balanced Voltage Drop Report
Source: Brodhead

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.9234-A	PL.61891	C	Open	7.26Y	121.1	0.00	3.95	0.00	0	0	0	100	0.00	0.0	9.040	0.003	0	0	0	0
PL.52672	PL.52671	C	6 A (CWC)	7.26Y	121.1	0.01	3.93	3.45	2	24	5	98	0.00	0.0	8.795	0.076	9	2	1	4
PL.61885	PL.52672	C	6 A (CWC)	7.26Y	121.1	0.00	3.93	2.23	2	16	4	97	0.00	0.0	8.833	0.038	0	0	0	3
PD.9231	PL.61885	C	15T	7.26Y	121.1	0.00	3.93	2.23	0	16	4	97	0.00	0.0	8.833	0.038	0	0	0	3
PL.61886	PD.9231	C	6 A (CWC)	7.26Y	121.1	0.00	3.94	2.23	2	16	4	97	0.00	0.0	8.890	0.057	16	3	2	3
PL.49423	PL.61886	C	6 A (CWC)	7.26Y	121.1	0.00	3.94	0.03	0	0	0	100	0.00	0.0	8.955	0.065	0	0	1	1
PL.62985	PL.57398	B	1/0 AL URD	7.28Y	121.3	0.00	3.68	1.67	1	12	3	97	0.00	0.0	8.025	0.056	12	3	1	1
PL.47905	PL.47896	B	336 MCM AC	7.29Y	121.4	0.02	3.56	53.94	10	384	86	98	0.04	0.0	7.735	0.039	0	0	0	63
PL.47897	PL.47905	B	336 MCM AC	7.29Y	121.4	0.00	3.56	53.94	10	383	86	98	0.00	0.0	7.736	0.001	0	0	0	63
PD.7180	PL.47897	B	100L	7.29Y	121.4	0.00	3.56	53.94	54	383	86	98	0.00	0.0	7.736	0.001	0	0	0	63
PL.47898	PD.7180	B	336 MCM AC	7.29Y	121.4	0.02	3.58	53.94	10	383	86	98	0.04	0.0	7.768	0.033	4	1	1	63
PL.61362	PL.47898	B	#4 ACSR	7.29Y	121.4	0.00	3.58	15.03	12	107	24	98	0.00	0.0	7.769	0.001	0	0	0	14
PD.9185	PL.61362	B	30T	7.29Y	121.4	0.00	3.58	15.03	0	107	24	98	0.00	0.0	7.769	0.001	0	0	0	14
PL.61360	PD.9185	B	#2 ACSR	7.28Y	121.4	0.01	3.59	13.46	8	96	21	98	0.01	0.0	7.795	0.026	12	3	2	13
PL.61361	PL.61360	B	#2 ACSR	7.28Y	121.4	0.00	3.59	11.82	7	84	19	98	0.00	0.0	7.808	0.013	0	0	0	11
PL.46928	PL.61361	B	#2 ACSR	7.28Y	121.4	0.00	3.59	0.00	0	0	0	100	0.00	0.0	7.842	0.034	0	0	0	0
PL.49103	PL.61361	B	#2 ACSR	7.28Y	121.4	0.01	3.61	11.82	7	84	19	98	0.01	0.0	7.851	0.043	18	4	2	11
PL.49104	PL.49103	B	#2 ACSR	7.28Y	121.4	0.01	3.62	9.33	5	66	15	98	0.00	0.0	7.902	0.051	42	9	4	9
PL.47270	PL.49104	B	#2 ACSR	7.28Y	121.4	0.00	3.62	1.11	1	8	2	97	0.00	0.0	7.952	0.050	8	2	2	2
PL.48907	PL.49104	B	#2 ACSR	7.28Y	121.4	0.00	3.62	2.31	1	16	4	97	0.00	0.0	7.943	0.041	11	2	2	3
PL.48908	PL.48907	B	#2 ACSR	7.28Y	121.4	0.00	3.62	0.74	0	5	1	98	0.00	0.0	7.995	0.052	5	1	1	1
PL.61363	PD.9185	B	#4 ACSR	7.29Y	121.4	0.00	3.58	1.57	1	11	2	98	0.00	0.0	7.798	0.029	11	2	1	1
PL.47282	PL.47898	B	#2 ACSR	7.28Y	121.3	0.12	3.69	38.41	22	273	61	98	0.23	0.1	7.869	0.100	14	3	3	48
PL.47135	PL.47282	B	#2 ACSR	7.28Y	121.3	0.04	3.73	36.46	21	259	58	98	0.07	0.0	7.901	0.032	0	0	0	45
PL.49424	PL.47135	B	#2 ACSR	7.27Y	121.2	0.06	3.79	28.08	16	199	45	98	0.08	0.0	7.971	0.070	12	3	2	36
PL.49425	PL.49424	B	#2 ACSR	7.26Y	121.1	0.14	3.93	26.43	15	188	42	98	0.19	0.1	8.142	0.171	0	0	0	34
PL.49426	PL.49425	B	#2 ACSR	7.26Y	121.0	0.07	4.00	25.52	15	181	41	98	0.09	0.0	8.228	0.086	0	0	0	33
PL.61774	PL.49426	B	6 A (CWC)	7.23Y	120.6	0.44	4.44	24.55	18	174	39	98	0.59	0.3	8.630	0.402	0	0	0	30
PD.9189-A	PL.61774	B	Closed	7.23Y	120.6	0.00	4.44	24.55	0	173	39	98	0.00	0.0	8.630	0.402	0	0	0	30
PD.9189-B	PD.9189-A	B	Closed	7.23Y	120.6	0.00	4.44	24.55	0	173	39	98	0.00	0.0	8.630	0.402	0	0	0	30
PL.61775	PD.9189-B	B	6 A (CWC)	7.23Y	120.5	0.08	4.52	24.55	18	173	39	98	0.11	0.1	8.706	0.076	10	2	1	30

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: Brodhead

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.49431	PL.61775	B	#2 ACSR	7.23Y	120.4	0.05	4.57	19.82	11	140	31	98	0.05	0.0	8.789	0.084	0	0	0	25
PL.61778	PL.49431	B	#2 ACSR	7.23Y	120.4	0.00	4.57	4.87	3	34	8	97	0.00	0.0	8.793	0.003	0	0	0	6
PD.9191	PL.61778	B	25T	7.23Y	120.4	0.00	4.57	4.87	0	34	8	97	0.00	0.0	8.793	0.003	0	0	0	6
PL.61779	PD.9191	B	#2 ACSR	7.22Y	120.4	0.02	4.59	4.87	3	34	8	97	0.00	0.0	8.928	0.135	11	2	2	6
PL.57730	PL.61779	B	#2 ACSR	7.22Y	120.4	0.01	4.60	3.35	2	24	5	98	0.00	0.0	8.992	0.064	5	1	2	4
PL.49212	PL.57730	B	#2 ACSR	7.22Y	120.4	0.01	4.60	2.63	2	19	4	98	0.00	0.0	9.094	0.102	0	0	0	2
PL.49213	PL.49212	B	#2 ACSR	7.22Y	120.4	0.01	4.62	2.63	2	19	4	98	0.00	0.0	9.300	0.206	11	2	1	2
PL.49214	PL.49213	B	#2 ACSR	7.22Y	120.4	0.00	4.62	1.11	1	8	2	97	0.00	0.0	9.332	0.032	8	2	1	1
PL.49432	PL.49431	B	#2 ACSR	7.22Y	120.4	0.03	4.60	14.95	9	105	23	98	0.02	0.0	8.849	0.059	9	2	1	19
PL.49433	PL.49432	B	#2 ACSR	7.22Y	120.4	0.01	4.61	13.68	8	96	22	97	0.01	0.0	8.884	0.035	0	0	0	18
PL.61780	PL.49433	B	#2 ACSR	7.22Y	120.4	0.00	4.61	1.81	1	13	3	97	0.00	0.0	8.887	0.003	0	0	0	2
PD.9192	PL.61780	B	15T	7.22Y	120.4	0.00	4.61	1.81	0	13	3	97	0.00	0.0	8.887	0.003	0	0	0	2
PL.61781	PD.9192	B	#2 ACSR	7.22Y	120.4	0.00	4.62	1.81	1	13	3	97	0.00	0.0	8.965	0.078	1	0	1	2
PL.49211	PL.61781	B	#2 ACSR	7.22Y	120.4	0.00	4.62	1.64	1	12	3	97	0.00	0.0	9.022	0.057	12	3	1	1
PL.61782	PL.49433	B	#2 ACSR	7.22Y	120.4	0.02	4.63	11.87	7	84	19	98	0.01	0.0	8.943	0.059	0	0	0	16
PL.61783	PL.61782	B	#1/0 ACSR	7.22Y	120.4	0.00	4.63	0.00	0	0	0	100	0.00	0.0	8.946	0.003	0	0	0	0
PD.9193	PL.61783	B	15T	7.22Y	120.4	0.00	4.63	0.00	0	0	0	100	0.00	0.0	8.946	0.003	0	0	0	0
PL.61847	PD.9193	B	#1/0 ACSR	7.22Y	120.4	0.00	4.63	0.00	0	0	0	100	0.00	0.0	9.017	0.071	0	0	0	0
PL.61848	PL.61782	B	#2 ACSR	7.22Y	120.4	0.01	4.65	11.87	7	84	19	98	0.01	0.0	8.978	0.035	0	0	0	16
PL.61849	PL.61848	B	#2 ACSR	7.22Y	120.3	0.01	4.66	11.87	7	84	19	98	0.01	0.0	9.020	0.042	7	2	1	16
PL.61850	PL.61849	B	#2 ACSR	7.22Y	120.3	0.00	4.66	10.83	6	76	17	98	0.00	0.0	9.024	0.003	0	0	0	15
PD.9194-A	PL.61850	B	Closed	7.22Y	120.3	0.00	4.66	10.83	0	76	17	98	0.00	0.0	9.024	0.003	0	0	0	15
PD.9194-B	PD.9194-A	B	Closed	7.22Y	120.3	0.00	4.66	10.83	0	76	17	98	0.00	0.0	9.024	0.003	0	0	0	15
PL.61851	PD.9194-B	B	#2 ACSR	7.22Y	120.3	0.05	4.72	10.83	6	76	17	98	0.03	0.0	9.188	0.164	0	0	0	15
PL.49209	PL.61851	B	#2 ACSR	7.22Y	120.3	0.03	4.75	10.83	6	76	17	98	0.02	0.0	9.270	0.082	0	0	0	15
PL.49210	PL.49209	B	#2 ACSR	7.21Y	120.2	0.03	4.77	10.83	6	76	17	98	0.02	0.0	9.354	0.085	2	0	1	15
PL.49215	PL.49210	B	#2 ACSR	7.21Y	120.2	0.05	4.82	10.59	6	75	17	98	0.03	0.0	9.505	0.151	0	0	0	14
PL.47379	PL.49215	B	6 A (CWC)	7.21Y	120.2	0.00	4.82	1.30	1	9	2	98	0.00	0.0	9.564	0.059	9	2	1	1
PL.49216	PL.49215	B	#2 ACSR	7.21Y	120.2	0.02	4.84	9.30	5	65	15	97	0.01	0.0	9.594	0.089	15	3	2	13
PL.46946	PL.49216	B	6 A (CWC)	7.21Y	120.2	0.00	4.84	0.11	0	1	0	100	0.00	0.0	9.666	0.072	1	0	1	1
PL.49217	PL.49216	B	#2 ACSR	7.21Y	120.1	0.02	4.86	7.04	4	50	11	98	0.01	0.0	9.673	0.079	0	0	0	10

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Balanced Voltage Drop Report
Source: Brodhead

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.49218	PL.49217	B	#2 ACSR	7.21Y	120.1	0.04	4.90	7.04	4	50	11	98	0.01	0.0	9.888	0.215	8	2	1	10
PL.47380	PL.49218	B	6 A (CWC)	7.21Y	120.1	0.00	4.91	0.67	0	5	1	98	0.00	0.0	9.973	0.085	5	1	1	1
PL.48405	PL.49218	B	#2 ACSR	7.20Y	120.1	0.02	4.92	5.21	3	37	8	98	0.01	0.0	10.018	0.130	4	1	1	8
PL.48406	PL.48405	B	#2 ACSR	7.20Y	120.1	0.00	4.92	0.00	0	0	0	100	0.00	0.0	10.095	0.077	0	0	0	0
PL.48407	PL.48406	B	#2 ACSR	7.20Y	120.1	0.00	4.92	0.00	0	0	0	100	0.00	0.0	10.190	0.095	0	0	0	0
PL.48408	PL.48405	B	6 A (CWC)	7.20Y	120.1	0.01	4.93	4.62	3	33	7	98	0.00	0.0	10.081	0.063	31	7	6	7
PL.49010	PL.48408	B	6 A (CWC)	7.20Y	120.1	0.00	4.93	0.15	0	1	0	100	0.00	0.0	10.120	0.039	1	0	1	1
PL.47156	PL.49209	B	#2 ACSR	7.22Y	120.3	0.00	4.75	0.00	0	0	0	100	0.00	0.0	9.367	0.097	0	0	0	0
PL.62698	PL.61848	B	#1/0 ACSR	7.22Y	120.4	0.00	4.65	0.00	0	0	0	100	0.00	0.0	8.978	0.000	0	0	0	0
PD.9403	PL.62698	B	15T	7.22Y	120.4	0.00	4.65	0.00	0	0	0	100	0.00	0.0	8.978	0.000	0	0	0	0
PL.62699	PD.9403	B	#1/0 ACSR	7.22Y	120.4	0.00	4.65	0.00	0	0	0	100	0.00	0.0	9.009	0.031	0	0	0	0
PL.62700	PD.9403	B	#1/0 ACSR	7.22Y	120.4	0.00	4.65	0.00	0	0	0	100	0.00	0.0	9.005	0.027	0	0	0	0
PL.61776	PL.61775	B	#2 ACSR	7.23Y	120.5	0.00	4.52	3.30	2	23	5	98	0.00	0.0	8.709	0.003	0	0	0	4
PD.9190	PL.61776	B	25T	7.23Y	120.5	0.00	4.52	3.30	0	23	5	98	0.00	0.0	8.709	0.003	0	0	0	4
PL.61777	PD.9190	B	#2 ACSR	7.23Y	120.5	0.02	4.54	3.30	2	23	5	98	0.00	0.0	8.900	0.191	0	0	0	4
PL.49430	PL.61777	B	#2 ACSR	7.23Y	120.5	0.00	4.54	1.45	1	10	2	98	0.00	0.0	9.077	0.177	10	2	1	1
PL.48117	PL.61777	B	#2 ACSR	7.23Y	120.5	0.01	4.55	1.85	1	13	3	97	0.00	0.0	9.036	0.136	2	0	2	3
PL.63451	PL.48117	B	#1/0 ACSR	7.23Y	120.5	0.00	4.55	1.57	1	11	2	98	0.00	0.0	9.049	0.013	0	0	0	1
PL.63452	PL.63451	B	#1/0 ACSR	7.23Y	120.5	0.00	4.55	1.57	1	11	2	98	0.00	0.0	9.052	0.003	0	0	0	1
PD.9472	PL.63452	B	25T	7.23Y	120.5	0.00	4.55	1.57	0	11	2	98	0.00	0.0	9.052	0.003	0	0	0	1
PL.63453	PD.9472	B	#1/0 ACSR	7.23Y	120.4	0.00	4.55	1.57	1	11	2	98	0.00	0.0	9.114	0.062	0	0	0	1
PL.63454	PL.63453	B	#1/0 ACSR	7.23Y	120.4	0.00	4.55	1.57	1	11	2	98	0.00	0.0	9.176	0.062	11	2	1	1
PL.61368	PL.49426	B	#2 ACSR	7.26Y	121.0	0.00	4.00	0.97	1	7	2	96	0.00	0.0	8.231	0.003	0	0	0	3
PD.9188	PL.61368	B	30T	7.26Y	121.0	0.00	4.00	0.97	0	7	2	96	0.00	0.0	8.231	0.003	0	0	0	3
PL.61369	PD.9188	B	#2 ACSR	7.26Y	121.0	0.00	4.00	0.97	1	7	2	96	0.00	0.0	8.402	0.171	2	0	1	3
PL.49427	PL.61369	B	#2 ACSR	7.26Y	121.0	0.00	4.00	0.75	0	5	1	98	0.00	0.0	8.442	0.040	2	0	1	2
PL.48116	PL.49427	B	#2 ACSR	7.26Y	121.0	0.00	4.00	0.00	0	0	0	100	0.00	0.0	8.492	0.050	0	0	0	0
PL.46885	PL.49427	B	#2 ACSR	7.26Y	121.0	0.00	4.00	0.00	0	0	0	100	0.00	0.0	8.540	0.098	0	0	0	0
PL.49428	PL.49427	B	#2 ACSR	7.26Y	121.0	0.00	4.00	0.49	0	3	1	95	0.00	0.0	8.545	0.103	3	1	1	1
PL.49429	PL.49428	B	#2 ACSR	7.26Y	121.0	0.00	4.00	0.00	0	0	0	100	0.00	0.0	8.643	0.098	0	0	0	0
PL.61366	PL.49425	B	#2 ACSR	7.26Y	121.1	0.00	3.93	0.91	1	6	1	99	0.00	0.0	8.146	0.003	0	0	0	1

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Balanced Voltage Drop Report
Source: Brodhead

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.9187	PL.61366	B	30T	7.26Y	121.1	0.00	3.93	0.91	0	6	1	99	0.00	0.0	8.146	0.003	0	0	0	1
PL.61367	PD.9187	B	#2 ACSR	7.26Y	121.1	0.00	3.93	0.91	1	6	1	99	0.00	0.0	8.229	0.084	6	1	1	1
PL.61364	PL.47135	B	#2 ACSR	7.28Y	121.3	0.00	3.73	8.37	5	59	13	98	0.00	0.0	7.904	0.003	0	0	0	9
PD.9186	PL.61364	B	15T	7.28Y	121.3	0.00	3.73	8.37	0	59	13	98	0.00	0.0	7.904	0.003	0	0	0	9
PL.61365	PD.9186	B	#2 ACSR	7.28Y	121.3	0.01	3.74	8.37	5	59	13	98	0.00	0.0	7.957	0.053	49	11	8	9
PL.59003	PL.61365	B	#2 ACSR	7.28Y	121.3	0.00	3.74	1.41	1	10	2	98	0.00	0.0	8.014	0.057	10	2	1	1
PL.49411	PL.47272	ABC	#3/0 ACSR	7.29Y	121.5	0.00	3.51	3.28	1	70	16	97	0.00	0.0	7.687	0.043	7	2	1	10
PL.49412	PL.49411	ABC	#3/0 ACSR	7.29Y	121.5	0.00	3.51	2.93	1	63	14	98	0.00	0.0	7.761	0.074	0	0	0	9
PL.47559	PL.49412	ABC	6 A (CWC)	7.29Y	121.5	0.00	3.51	0.72	1	15	3	98	0.00	0.0	7.854	0.094	15	3	2	2
PL.49415	PL.49412	B	6 A (CWC)	7.29Y	121.5	0.00	3.51	6.65	5	47	11	97	0.00	0.0	7.762	0.001	0	0	0	7
PD.7577	PL.49415	B	60QA	7.29Y	121.5	0.00	3.51	6.65	11	47	11	97	0.00	0.0	7.762	0.001	0	0	0	7
PL.47442	PD.7577	B	6 A (CWC)	7.29Y	121.4	0.07	3.58	6.65	5	47	11	97	0.02	0.1	7.993	0.232	0	0	0	7
PL.48163	PL.47442	B	6 A (CWC)	7.28Y	121.4	0.00	3.58	1.17	1	8	2	97	0.00	0.0	8.132	0.138	8	2	1	1
PL.47443	PL.47442	B	6 A (CWC)	7.28Y	121.4	0.01	3.59	1.18	1	8	2	97	0.00	0.0	8.122	0.129	2	0	1	2
PL.47444	PL.47443	B	6 A (CWC)	7.28Y	121.4	0.00	3.59	0.89	1	6	1	99	0.00	0.0	8.202	0.079	6	1	1	1
PL.49219	PL.47442	B	6 A (CWC)	7.28Y	121.4	0.04	3.62	4.29	3	31	7	98	0.01	0.0	8.223	0.230	0	0	0	4
PL.61719	PL.49219	B	6 A (CWC)	7.28Y	121.4	0.00	3.62	0.52	0	4	1	97	0.00	0.0	8.226	0.003	0	0	0	1
PD.9166	PL.61719	B	10T	7.28Y	121.4	0.00	3.62	0.52	0	4	1	97	0.00	0.0	8.226	0.003	0	0	0	1
PL.61720	PD.9166	B	6 A (CWC)	7.28Y	121.4	0.00	3.63	0.52	0	4	1	97	0.00	0.0	8.306	0.080	4	1	1	1
PL.49011	PL.49219	B	6 A (CWC)	7.28Y	121.4	0.02	3.65	3.77	3	27	6	98	0.00	0.0	8.362	0.139	0	0	0	3
PL.47316	PL.49011	B	#4 ACSR	7.28Y	121.3	0.00	3.65	1.67	1	12	3	97	0.00	0.0	8.445	0.082	12	3	1	1
PL.49012	PL.49011	B	6 A (CWC)	7.28Y	121.3	0.00	3.65	2.10	2	15	3	98	0.00	0.0	8.410	0.048	12	3	1	2
PL.49013	PL.49012	B	6 A (CWC)	7.28Y	121.3	0.00	3.65	0.46	0	3	1	95	0.00	0.0	8.483	0.072	3	1	1	1
PL.64658	PL.47272	B	#2 ACSR	7.29Y	121.5	0.00	3.51	5.92	3	42	9	98	0.00	0.0	7.670	0.026	42	9	2	2
PL.47894	PL.49410	B	#2 ACSR	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	7.497	0.001	0	0	0	0
PD.7544	PL.47894	B	60QA	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	7.497	0.001	0	0	0	0
PL.59004	PD.7544	B	#2 ACSR	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	7.529	0.032	0	0	0	0
PL.61709	PL.59055	A	#2 ACSR	7.31Y	121.9	0.00	3.09	0.00	0	0	0	100	0.00	0.0	7.298	0.003	0	0	0	0
PD.9161	PL.61709	A	15T	7.31Y	121.9	0.00	3.09	0.00	0	0	0	100	0.00	0.0	7.298	0.003	0	0	0	0
PL.61710	PD.9161	A	#2 ACSR	7.31Y	121.9	0.00	3.09	0.00	0	0	0	100	0.00	0.0	7.332	0.035	0	0	0	0
PL.59056	PL.59054	A	6 A (CWC)	7.32Y	122.0	0.03	3.04	12.97	9	93	21	98	0.02	0.0	7.280	0.055	0	0	0	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: Brodhead

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.8668	PL.59056	A	40T	7.32Y	122.0	0.00	3.04	12.97	0	93	21	98	0.00	0.0	7.280	0.055	0	0	0	17
PL.59040	PD.8668	A	6 A (CWC)	7.32Y	122.0	0.01	3.05	12.97	9	93	21	98	0.01	0.0	7.303	0.023	20	4	3	17
PL.61711	PL.59040	A	6 A (CWC)	7.32Y	122.0	0.00	3.05	5.95	4	43	9	98	0.00	0.0	7.306	0.003	0	0	0	5
PD.9162	PL.61711	A	15T	7.32Y	122.0	0.00	3.05	5.95	0	43	9	98	0.00	0.0	7.306	0.003	0	0	0	5
PL.61712	PD.9162	A	6 A (CWC)	7.32Y	121.9	0.01	3.06	5.95	4	43	9	98	0.00	0.0	7.364	0.059	23	5	2	5
PL.58768	PL.61712	A	6 A (CWC)	7.32Y	121.9	0.00	3.06	2.71	2	19	4	98	0.00	0.0	7.422	0.058	19	4	3	3
PL.60143	PL.59040	A	6 A (CWC)	7.32Y	121.9	0.02	3.07	4.18	3	30	7	97	0.00	0.0	7.403	0.100	0	0	0	9
PL.61713	PL.60143	A	6 A (CWC)	7.32Y	121.9	0.00	3.07	0.38	0	3	1	95	0.00	0.0	7.406	0.003	0	0	0	2
PD.9163	PL.61713	A	12T	7.32Y	121.9	0.00	3.07	0.38	0	3	1	95	0.00	0.0	7.406	0.003	0	0	0	2
PL.61714	PD.9163	A	6 A (CWC)	7.32Y	121.9	0.00	3.07	0.38	0	3	1	95	0.00	0.0	7.506	0.100	0	0	1	2
PL.60144	PL.61714	A	6 A (CWC)	7.32Y	121.9	0.00	3.07	0.33	0	2	1	89	0.00	0.0	7.646	0.139	2	1	1	1
PL.60142	PL.60143	A	6 A (CWC)	7.31Y	121.9	0.03	3.10	3.80	3	27	6	98	0.01	0.0	7.599	0.196	0	0	0	7
PL.49407	PL.60142	A	6 A (CWC)	7.31Y	121.9	0.01	3.11	2.56	2	18	4	98	0.00	0.0	7.686	0.087	6	1	2	4
PL.61717	PL.49407	A	6 A (CWC)	7.31Y	121.9	0.00	3.11	1.72	1	12	3	97	0.00	0.0	7.689	0.003	0	0	0	2
PD.9165	PL.61717	A	12T	7.31Y	121.9	0.00	3.11	1.72	0	12	3	97	0.00	0.0	7.689	0.003	0	0	0	2
PL.61718	PD.9165	A	6 A (CWC)	7.31Y	121.9	0.01	3.12	1.72	1	12	3	97	0.00	0.0	7.832	0.143	10	2	1	2
PL.49406	PL.61718	A	6 A (CWC)	7.31Y	121.9	0.00	3.12	0.39	0	3	1	95	0.00	0.0	7.903	0.071	0	0	0	1
PL.49405	PL.49406	A	6 A (CWC)	7.31Y	121.9	0.00	3.12	0.39	0	3	1	95	0.00	0.0	8.046	0.143	3	1	1	1
PL.61715	PL.60142	A	6 A (CWC)	7.31Y	121.9	0.00	3.10	1.24	1	9	2	98	0.00	0.0	7.603	0.003	0	0	0	3
PD.9164	PL.61715	A	12T	7.31Y	121.9	0.00	3.10	1.24	0	9	2	98	0.00	0.0	7.603	0.003	0	0	0	3
PL.61716	PD.9164	A	6 A (CWC)	7.31Y	121.9	0.01	3.11	1.24	1	9	2	98	0.00	0.0	7.705	0.102	0	0	0	3
PL.49408	PL.61716	A	6 A (CWC)	7.31Y	121.9	0.01	3.12	1.16	1	8	2	97	0.00	0.0	8.054	0.350	8	2	2	2
PL.47742	PL.61716	A	#4 ACSR	7.31Y	121.9	0.00	3.11	0.08	0	1	0	100	0.00	0.0	7.762	0.058	1	0	1	1
PL.57396	PL.49396	A	6 A (CWC)	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	6.185	0.007	0	0	0	0
PD.9153-A	PL.57396	A	Open	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	6.185	0.007	0	0	0	0
PL.47451	PL.49394	C	#4 ACSR	7.42Y	123.7	0.01	1.34	4.64	4	34	7	98	0.00	0.0	6.046	0.058	34	7	1	1
CP.68	PL.49181	ABC	Cap (300)	7.45Y	124.2	0.00	0.76	0.00	0	0	0	100	0.00	0.0	5.582	0.058	0	0	0	0
PL.58537	PL.49153	C	#4 ACSR	7.47Y	124.4	0.00	0.58	7.23	6	53	12	98	0.00	0.0	5.456	0.002	0	0	0	4
PD.8711	PL.58537	C	30T	7.47Y	124.4	0.00	0.58	7.23	0	53	12	98	0.00	0.0	5.456	0.002	0	0	0	4
PL.58538	PD.8711	C	#4 ACSR	7.46Y	124.4	0.02	0.60	7.23	6	53	12	98	0.01	0.0	5.524	0.068	8	2	1	4
PL.49154	PL.58538	C	#4 ACSR	7.46Y	124.4	0.01	0.61	6.09	5	44	10	98	0.00	0.0	5.571	0.047	15	3	2	3

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Balanced Voltage Drop Report
Source: Brodhead

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.49155	PL.49154	C	#4 ACSR	7.46Y	124.4	0.01	0.61	4.02	3	29	6	98	0.00	0.0	5.628	0.057	29	6	1	1
PL.47325	PL.49152	A	#4 ACSR	7.47Y	124.5	0.00	0.48	0.46	0	3	1	95	0.00	0.0	5.453	0.071	3	1	1	1
PL.58216	PL.58219	A	#2 ACSR	7.18Y	119.7	0.00	5.33	1.09	1	8	2	97	0.00	0.0	4.947	0.004	0	0	0	3
PD.8744	PL.58216	A	70QA	7.18Y	119.7	0.00	5.33	1.09	0	8	2	97	0.00	0.0	4.947	0.004	0	0	0	3
PL.58213	PD.8744	A	#2 ACSR	7.18Y	119.7	0.00	5.33	1.09	1	8	2	97	0.00	0.0	4.964	0.018	8	2	3	3
PL.58206	PL.58205	B	#1/0 ACSR	7.20Y	120.0	0.00	4.99	0.55	0	4	1	97	0.00	0.0	4.585	0.002	0	0	0	1
PL.58865	PL.58206	B	#1/0 ACSR	7.20Y	120.0	0.00	4.99	0.55	0	4	1	97	0.00	0.0	4.588	0.003	0	0	0	1
PD.8741	PL.58865	B	12T	7.20Y	120.0	0.00	4.99	0.55	0	4	1	97	0.00	0.0	4.588	0.003	0	0	0	1
PL.58864	PD.8741	B	#1/0 ACSR	7.20Y	120.0	0.00	4.99	0.55	0	4	1	97	0.00	0.0	4.625	0.037	4	1	1	1
PL.58867	PL.58866	A	#4 ACSR	7.20Y	120.1	0.00	4.93	1.19	1	8	2	97	0.00	0.0	4.522	0.007	0	0	0	2
PD.8475	PL.58867	A	12T	7.20Y	120.1	0.00	4.93	1.19	0	8	2	97	0.00	0.0	4.522	0.007	0	0	0	2
PL.58851	PD.8475	A	#4 ACSR	7.20Y	120.1	0.00	4.93	1.19	1	8	2	97	0.00	0.0	4.552	0.030	1	0	1	2
PL.58850	PL.58851	A	#4 ACSR	7.20Y	120.1	0.00	4.93	1.05	1	7	2	96	0.00	0.0	4.589	0.037	7	2	1	1
PL.58868	PL.58866	A	#4 ACSR	7.20Y	120.1	0.00	4.93	1.75	1	12	3	97	0.00	0.0	4.517	0.002	0	0	0	1
PD.8476	PL.58868	A	12T	7.20Y	120.1	0.00	4.93	1.75	0	12	3	97	0.00	0.0	4.517	0.002	0	0	0	1
PL.58849	PD.8476	A	#4 ACSR	7.20Y	120.1	0.00	4.93	1.75	1	12	3	97	0.00	0.0	4.533	0.016	12	3	1	1
PL.58846	PL.58863	A	6 A (CWC)	7.21Y	120.2	0.00	4.76	0.28	0	2	0	100	0.00	0.0	4.350	0.007	0	0	0	1
PD.8657	PL.58846	A	15T	7.21Y	120.2	0.00	4.76	0.28	0	2	0	100	0.00	0.0	4.350	0.007	0	0	0	1
PL.58847	PD.8657	A	6 A (CWC)	7.21Y	120.2	0.00	4.76	0.28	0	2	0	100	0.00	0.0	4.403	0.053	2	0	1	1
PL.58672	PL.58673	C	6 A (CWC)	7.26Y	121.1	0.00	3.93	16.62	12	118	26	98	0.00	0.0	3.506	0.001	0	0	0	18
PD.8635	PL.58672	C	50L	7.26Y	121.1	0.00	3.93	16.62	33	118	26	98	0.00	0.0	3.506	0.001	0	0	0	18
PL.58665	PD.8635	C	#1/0 ACSR	7.26Y	121.0	0.02	3.95	16.62	7	118	26	98	0.02	0.0	3.572	0.066	0	0	1	18
PL.61728	PL.58665	C	6 A (CWC)	7.26Y	121.0	0.09	4.05	16.62	12	118	26	98	0.08	0.1	3.696	0.124	0	0	0	17
PL.61729	PL.61728	C	#1/0 ACSR	7.26Y	121.0	0.00	4.05	0.00	0	0	0	100	0.00	0.0	3.700	0.003	0	0	0	0
PD.9169	PL.61729	C	30T	7.26Y	121.0	0.00	4.05	0.00	0	0	0	100	0.00	0.0	3.700	0.003	0	0	0	0
PL.61730	PD.9169	C	#1/0 ACSR	7.26Y	121.0	0.00	4.05	0.00	0	0	0	100	0.00	0.0	3.732	0.032	0	0	0	0
PL.61733	PL.61728	C	6 A (CWC)	7.24Y	120.7	0.25	4.30	16.62	12	118	26	98	0.23	0.2	4.032	0.336	0	0	0	17
PD.9171	PL.61733	C	30T	7.24Y	120.7	0.00	4.30	16.62	0	117	26	98	0.00	0.0	4.032	0.336	0	0	0	17
PL.61734	PD.9171	C	6 A (CWC)	7.24Y	120.7	0.00	4.30	16.62	12	117	26	98	0.00	0.0	4.036	0.004	0	0	0	17
PL.61735	PL.61734	C	6 A (CWC)	7.24Y	120.7	0.00	4.30	15.61	11	110	25	98	0.00	0.0	4.039	0.003	0	0	0	16
PD.9172	PL.61735	C	30T	7.24Y	120.7	0.00	4.30	15.61	0	110	25	98	0.00	0.0	4.039	0.003	0	0	0	16

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Balanced Voltage Drop Report
Source: Brodhead

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.61736	PD.9172	C	6 A (CWC)	7.24Y	120.7	0.02	4.32	15.61	11	110	25	98	0.02	0.0	4.069	0.030	2	0	1	16
PL.46945	PL.61736	C	#4 ACSR	7.24Y	120.7	0.00	4.32	0.00	0	0	0	100	0.00	0.0	4.119	0.050	0	0	0	0
PL.47983	PL.61736	C	6 A (CWC)	7.24Y	120.6	0.03	4.35	15.33	11	108	24	98	0.02	0.0	4.108	0.039	6	1	1	15
PL.47984	PL.47983	C	6 A (CWC)	7.24Y	120.6	0.03	4.38	14.03	10	99	22	98	0.02	0.0	4.156	0.048	14	3	1	13
PL.47985	PL.47984	C	6 A (CWC)	7.24Y	120.6	0.02	4.40	12.11	9	86	19	98	0.01	0.0	4.189	0.033	7	1	1	12
PL.47986	PL.47985	C	6 A (CWC)	7.23Y	120.6	0.04	4.43	11.18	8	79	18	98	0.02	0.0	4.269	0.080	16	4	1	11
PL.61739	PL.47986	C	6 A (CWC)	7.23Y	120.6	0.00	4.43	4.36	3	31	7	98	0.00	0.0	4.273	0.003	0	0	0	4
PD.9174	PL.61739	C	20T	7.23Y	120.6	0.00	4.43	4.36	0	31	7	98	0.00	0.0	4.273	0.003	0	0	0	4
PL.61740	PD.9174	C	6 A (CWC)	7.23Y	120.6	0.01	4.44	4.36	3	31	7	98	0.00	0.0	4.331	0.058	0	0	0	4
PL.46927	PL.61740	C	6 A (CWC)	7.23Y	120.6	0.00	4.44	0.00	0	0	0	100	0.00	0.0	4.429	0.098	0	0	0	0
PL.56319	PL.61740	C	6 A (CWC)	7.23Y	120.5	0.01	4.45	1.28	1	9	2	98	0.00	0.0	4.423	0.092	0	0	0	2
PL.56320	PL.56319	C	6 A (CWC)	7.23Y	120.5	0.00	4.45	1.04	1	7	2	96	0.00	0.0	4.600	0.177	7	2	1	1
PL.60028	PL.56319	C	#1/0 ACSR	7.23Y	120.5	0.00	4.45	0.24	0	2	0	100	0.00	0.0	4.582	0.159	2	0	1	1
PL.49185	PL.61740	C	#4 ACSR	7.23Y	120.5	0.01	4.45	3.08	2	22	5	98	0.00	0.0	4.403	0.073	7	2	1	2
PL.48524	PL.49185	C	#4 ACSR	7.23Y	120.5	0.00	4.46	2.11	2	15	3	98	0.00	0.0	4.448	0.044	15	3	1	1
PL.47987	PL.47986	C	6 A (CWC)	7.23Y	120.6	0.01	4.44	4.51	3	32	7	98	0.00	0.0	4.295	0.026	0	0	0	6
PL.48525	PL.47987	C	6 A (CWC)	7.23Y	120.5	0.04	4.48	4.51	3	32	7	98	0.01	0.0	4.486	0.191	0	0	0	6
PL.61741	PL.48525	C	6 A (CWC)	7.23Y	120.5	0.00	4.48	0.75	1	5	1	98	0.00	0.0	4.490	0.003	0	0	0	1
PD.9175	PL.61741	C	20T	7.23Y	120.5	0.00	4.48	0.75	0	5	1	98	0.00	0.0	4.490	0.003	0	0	0	1
PL.61742	PD.9175	C	6 A (CWC)	7.23Y	120.5	0.00	4.48	0.75	1	5	1	98	0.00	0.0	4.588	0.099	0	0	0	1
PL.48526	PL.61742	C	6 A (CWC)	7.23Y	120.5	0.00	4.48	0.75	1	5	1	98	0.00	0.0	4.653	0.065	5	1	1	1
PL.48527	PL.48525	C	6 A (CWC)	7.23Y	120.5	0.02	4.49	2.52	2	18	4	98	0.00	0.0	4.640	0.154	0	0	0	4
PL.47267	PL.48527	C	6 A (CWC)	7.23Y	120.5	0.02	4.51	2.52	2	18	4	98	0.00	0.0	4.805	0.165	3	1	1	4
PL.47268	PL.47267	C	6 A (CWC)	7.23Y	120.5	0.01	4.52	2.11	2	15	3	98	0.00	0.0	4.900	0.095	10	2	1	3
PL.47637	PL.47268	C	6 A (CWC)	7.23Y	120.5	0.00	4.52	0.66	0	5	1	98	0.00	0.0	5.015	0.114	0	0	1	2
PL.47638	PL.47637	C	6 A (CWC)	7.23Y	120.5	0.00	4.52	0.60	0	4	1	97	0.00	0.0	5.075	0.061	4	1	1	1
PL.61743	PL.48525	C	6 A (CWC)	7.23Y	120.5	0.00	4.48	1.25	1	9	2	98	0.00	0.0	4.489	0.003	0	0	0	1
PD.9176	PL.61743	C	20T	7.23Y	120.5	0.00	4.48	1.25	0	9	2	98	0.00	0.0	4.489	0.003	0	0	0	1
PL.61744	PD.9176	C	6 A (CWC)	7.23Y	120.5	0.00	4.48	1.25	1	9	2	98	0.00	0.0	4.527	0.038	9	2	1	1
PL.61737	PL.47983	C	#4 ACSR	7.24Y	120.6	0.00	4.35	0.42	0	3	1	95	0.00	0.0	4.111	0.003	0	0	0	1
PD.9173	PL.61737	C	20T	7.24Y	120.6	0.00	4.35	0.42	0	3	1	95	0.00	0.0	4.111	0.003	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: Brodhead

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.61738	PD.9173	C	#4 ACSR	7.24Y	120.6	0.00	4.35	0.42	0	3	1	95	0.00	0.0	4.142	0.031	3	1	1	1
PL.58662	PL.61734	C	6 A (CWC)	7.24Y	120.7	0.00	4.31	1.01	1	7	2	96	0.00	0.0	4.117	0.081	0	0	0	1
PL.61731	PL.58662	C	6 A (CWC)	7.24Y	120.7	0.00	4.31	1.01	1	7	2	96	0.00	0.0	4.120	0.003	0	0	0	1
PD.9170	PL.61731	C	20T	7.24Y	120.7	0.00	4.31	1.01	0	7	2	96	0.00	0.0	4.120	0.003	0	0	0	1
PL.61732	PD.9170	C	6 A (CWC)	7.24Y	120.7	0.00	4.31	1.01	1	7	2	96	0.00	0.0	4.309	0.189	7	2	1	1
PL.49028	PL.58662	C	6 A (CWC)	7.24Y	120.7	0.00	4.31	0.00	0	0	0	100	0.00	0.0	4.190	0.073	0	0	0	0
PL.49029	PL.49028	C	6 A (CWC)	7.24Y	120.7	0.00	4.31	0.00	0	0	0	100	0.00	0.0	4.462	0.272	0	0	0	0
PL.58674	PL.58673	A	#1/0 ACSR	7.26Y	121.1	0.00	3.93	1.76	1	13	3	97	0.00	0.0	3.510	0.006	0	0	0	1
PD.8634	PL.58674	A	40T	7.26Y	121.1	0.00	3.93	1.76	0	13	3	97	0.00	0.0	3.510	0.006	0	0	0	1
PL.59008	PD.8634	A	#1/0 ACSR	7.26Y	121.1	0.00	3.93	1.76	1	13	3	97	0.00	0.0	3.532	0.023	13	3	1	1
PL.58664	PL.64056	C	#4 ACSR	7.28Y	121.3	0.00	3.67	2.16	2	15	3	98	0.00	0.0	3.262	0.001	0	0	0	2
PD.8630	PL.58664	C	70QA	7.28Y	121.3	0.00	3.67	2.16	0	15	3	98	0.00	0.0	3.262	0.001	0	0	0	2
PL.58645	PD.8630	C	#4 ACSR	7.28Y	121.3	0.01	3.68	2.16	2	15	3	98	0.00	0.0	3.316	0.054	0	0	0	2
PL.58644	PL.58645	C	#4 ACSR	7.28Y	121.3	0.00	3.68	2.15	2	15	3	98	0.00	0.0	3.411	0.094	15	3	1	1
PL.59007	PL.58645	C	#4 ACSR	7.28Y	121.3	0.00	3.68	0.01	0	0	0	100	0.00	0.0	3.343	0.026	0	0	1	1
PL.49130	PL.49124	A	6 A (CWC)	7.38Y	123.0	0.00	1.96	8.20	6	59	13	98	0.00	0.0	1.701	0.002	0	0	0	15
PD.7566	PL.49130	A	50QA	7.38Y	123.0	0.00	1.96	8.20	16	59	13	98	0.00	0.0	1.701	0.002	0	0	0	15
PL.49131	PD.7566	A	6 A (CWC)	7.38Y	123.0	0.08	2.04	8.20	6	59	13	98	0.04	0.1	1.916	0.215	0	0	0	15
PL.47692	PL.49131	A	6 A (CWC)	7.38Y	123.0	0.00	2.04	1.97	1	14	3	98	0.00	0.0	1.955	0.038	14	3	3	3
PL.49132	PL.49131	A	6 A (CWC)	7.37Y	122.9	0.05	2.09	6.23	4	45	10	98	0.02	0.0	2.096	0.180	0	0	1	12
PL.49133	PL.49132	A	6 A (CWC)	7.37Y	122.9	0.02	2.11	6.21	4	45	10	98	0.01	0.0	2.172	0.075	9	2	4	11
PL.61972	PL.49133	A	#1/0 ACSR	7.37Y	122.9	0.00	2.11	2.37	1	17	4	97	0.00	0.0	2.210	0.039	5	1	1	4
PL.63449	PL.61972	A	#1/0 ACSR	7.37Y	122.9	0.00	2.11	0.35	0	3	1	95	0.00	0.0	2.269	0.059	0	0	0	2
PL.63450	PL.63449	A	#1/0 ACSR	7.37Y	122.9	0.00	2.11	0.35	0	3	1	95	0.00	0.0	2.269	0.000	3	1	2	2
PL.61973	PL.61972	A	#1/0 ACSR	7.37Y	122.9	0.00	2.11	1.32	1	9	2	98	0.00	0.0	2.292	0.082	9	2	1	1
PL.48742	PL.49133	A	6 A (CWC)	7.37Y	122.9	0.01	2.12	2.58	2	19	4	98	0.00	0.0	2.308	0.136	10	2	2	3
PL.48743	PL.48742	A	6 A (CWC)	7.37Y	122.9	0.00	2.13	1.18	1	8	2	97	0.00	0.0	2.425	0.117	8	2	1	1
PL.47542	PL.49132	A	6 A (CWC)	7.37Y	122.9	0.00	2.09	0.00	0	0	0	100	0.00	0.0	2.215	0.119	0	0	0	0
PL.58892	PL.58893	ABC	336 MCM AC	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	0.776	0.002	0	0	0	0
PD.8623-B	PL.58892	ABC	Open	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	0.776	0.002	0	0	0	0
PL.58884	Brodhead	ABC	#3/0 ACSR	7.50Y	125.0	0.00	0.00	103.21	34	2200	745	95	0.04	0.0	0.002	0.002	0	0	0	238

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: Brodhead

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.58885	PL.58884	ABC	#3/0 ACSR	7.50Y	125.0	0.01	0.01	103.21	34	2199	745	95	0.12	0.0	0.009	0.007	0	0	0	238
---------- Feeder No. 2 (Orlando F2) Beginning with Device PD.8478 ----------																				
PD.8478	PL.58885	ABC	400VWE	7.50Y	125.0	0.00	0.01	103.21	0	2199	745	95	0.00	0.0	0.009	0.007	0	0	0	238
PL.58852	PD.8478	ABC	336 MCM AC	7.50Y	125.0	0.01	0.03	103.21	20	2199	745	95	0.15	0.0	0.025	0.017	0	0	0	238
PL.58853	PL.58852	ABC	336 MCM AC	7.48Y	124.7	0.28	0.31	103.21	20	2199	744	95	3.11	0.1	0.372	0.347	0	0	0	238
PL.58606	PL.58853	ABC	336 MCM AC	7.47Y	124.5	0.19	0.50	103.07	20	2193	736	95	2.07	0.1	0.604	0.232	0	0	0	237
PL.58607	PL.58606	ABC	336 MCM AC	7.46Y	124.4	0.10	0.59	103.07	20	2191	732	95	1.05	0.0	0.722	0.118	0	0	0	237
PL.58890	PL.58607	ABC	336 MCM AC	7.46Y	124.4	0.02	0.61	103.07	20	2190	729	95	0.18	0.0	0.742	0.020	0	0	0	237
PD.8484-A	PL.58890	ABC	Closed	7.46Y	124.4	0.00	0.61	103.07	0	2190	729	95	0.00	0.0	0.742	0.020	0	0	0	237
PD.8484-B	PD.8484-A	ABC	Closed	7.46Y	124.4	0.00	0.61	103.07	0	2190	729	95	0.00	0.0	0.742	0.020	0	0	0	237
PL.58891	PD.8484-B	ABC	336 MCM AC	7.46Y	124.4	0.02	0.64	103.07	20	2190	729	95	0.27	0.0	0.772	0.030	0	0	0	237
PL.58889	PL.58891	ABC	336 MCM AC	7.46Y	124.3	0.03	0.66	103.07	20	2189	728	95	0.32	0.0	0.809	0.036	0	0	0	237
PL.58887	PL.58889	ABC	336 MCM AC	7.46Y	124.3	0.03	0.69	103.07	20	2189	727	95	0.29	0.0	0.841	0.032	0	0	0	237
PL.58610	PL.58887	ABC	336 MCM AC	7.46Y	124.3	0.02	0.71	103.07	20	2189	727	95	0.25	0.0	0.869	0.028	0	0	0	237
PL.58611	PL.58610	ABC	336 MCM AC	7.45Y	124.2	0.06	0.77	103.07	20	2189	726	95	0.63	0.0	0.939	0.071	0	0	0	237
PL.58608	PL.58611	ABC	336 MCM AC	7.45Y	124.1	0.09	0.86	102.46	20	2175	722	95	0.93	0.0	1.045	0.105	0	0	0	235
PL.58641	PL.58608	A	#1/0 ACSR	7.45Y	124.1	0.00	0.86	0.00	0	0	0	100	0.00	0.0	1.091	0.046	0	0	0	0
PL.58640	PL.58608	ABC	336 MCM AC	7.43Y	123.8	0.34	1.20	102.46	20	2174	719	95	3.76	0.2	1.470	0.425	0	0	0	235
PL.52088	PL.58640	ABC	336 MCM AC	7.42Y	123.7	0.13	1.33	102.31	20	2167	710	95	1.42	0.1	1.631	0.161	5	1	1	232
PL.52094	PL.52088	ABC	336 MCM AC	7.40Y	123.4	0.30	1.63	102.10	20	2161	706	95	3.32	0.2	2.009	0.378	0	0	0	231
PL.52090	PL.52094	C	6 A (CWC)	7.40Y	123.4	0.00	1.63	3.43	2	25	6	97	0.00	0.0	2.014	0.005	0	0	0	4
PD.7370	PL.52090	C	10T	7.40Y	123.4	0.00	1.63	3.43	0	25	6	97	0.00	0.0	2.014	0.005	0	0	0	4
PL.47622	PD.7370	C	6 A (CWC)	7.40Y	123.3	0.02	1.65	3.43	2	25	6	97	0.00	0.0	2.164	0.150	0	0	0	4
PL.47623	PL.47622	C	6 A (CWC)	7.40Y	123.3	0.00	1.65	1.60	1	12	3	97	0.00	0.0	2.197	0.033	12	3	2	2
PL.47624	PL.47623	C	6 A (CWC)	7.40Y	123.3	0.00	1.65	0.00	0	0	0	100	0.00	0.0	2.197	0.000	0	0	0	0
PL.48504	PL.47622	C	6 A (CWC)	7.40Y	123.3	0.01	1.66	1.83	1	13	3	97	0.00	0.0	2.306	0.142	9	2	1	2
PL.48505	PL.48504	C	6 A (CWC)	7.40Y	123.3	0.00	1.66	0.60	0	4	1	97	0.00	0.0	2.395	0.089	4	1	1	1
PL.52091	PL.52094	ABC	336 MCM AC	7.40Y	123.3	0.08	1.71	100.96	19	2132	692	95	0.88	0.0	2.111	0.103	0	0	0	227
PL.52092	PL.52091	A	#4 ACSR	7.40Y	123.3	0.00	1.71	2.66	2	19	4	98	0.00	0.0	2.112	0.001	0	0	0	1

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Balanced Voltage Drop Report
Source: Brodhead

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.7342	PL.52092	A	25QA	7.40Y	123.3	0.00	1.71	2.66	11	19	4	98	0.00	0.0	2.112	0.001	0	0	0	1
PL.48498	PD.7342	A	#4 ACSR	7.40Y	123.3	0.00	1.72	2.66	2	19	4	98	0.00	0.0	2.187	0.075	19	4	1	1
PL.63440	PL.52091	ABC	336 MCM AC	7.40Y	123.3	0.01	1.72	20.47	4	443	100	98	0.02	0.0	2.161	0.049	0	0	0	69
PL.48496	PL.63440	ABC	#1/0 ACSR	7.40Y	123.3	0.00	1.72	20.47	9	443	100	98	0.00	0.0	2.161	0.001	0	0	0	69
PD.7563	PL.48496	ABC	70L	7.40Y	123.3	0.00	1.72	20.47	29	443	100	98	0.00	0.0	2.161	0.001	0	0	0	69
PL.48497	PD.7563	ABC	#1/0 ACSR	7.39Y	123.2	0.07	1.78	20.47	9	443	100	98	0.21	0.0	2.345	0.184	0	0	0	69
PL.48494	PL.48497	C	#1/0 ACSR	7.39Y	123.2	0.00	1.78	4.03	2	29	6	98	0.00	0.0	2.346	0.001	0	0	0	3
PD.7484	PL.48494	C	25QA	7.39Y	123.2	0.00	1.78	4.03	16	29	6	98	0.00	0.0	2.346	0.001	0	0	0	3
PL.48495	PD.7484	C	#1/0 ACSR	7.39Y	123.2	0.00	1.79	4.03	2	29	6	98	0.00	0.0	2.384	0.038	12	3	1	3
PL.49008	PL.48495	C	#1/0 ACSR	7.39Y	123.2	0.00	1.79	2.35	1	17	4	97	0.00	0.0	2.438	0.054	10	2	1	2
PL.48493	PL.49008	C	#1/0 ACSR	7.39Y	123.2	0.00	1.79	0.95	0	7	2	96	0.00	0.0	2.553	0.115	7	2	1	1
PL.49007	PL.48497	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.81	19.13	8	414	93	98	0.07	0.0	2.418	0.073	0	0	0	66
PL.63436	PL.49007	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.83	17.95	8	388	88	98	0.05	0.0	2.476	0.058	9	2	1	62
PL.63437	PL.63436	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.84	17.55	8	380	86	98	0.04	0.0	2.526	0.050	0	0	0	61
PL.49002	PL.63437	A	#4 ACSR	7.39Y	123.2	0.00	1.84	2.09	2	15	3	98	0.00	0.0	2.527	0.001	0	0	0	1
PD.7520	PL.49002	A	20QA	7.39Y	123.2	0.00	1.84	2.09	10	15	3	98	0.00	0.0	2.527	0.001	0	0	0	1
PL.49003	PD.7520	A	#4 ACSR	7.39Y	123.2	0.00	1.84	2.09	2	15	3	98	0.00	0.0	2.591	0.064	15	3	1	1
PL.49000	PL.63437	C	#2 ACSR	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	2.527	0.001	0	0	0	0
PD.7311	PL.49000	C	20QA	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	2.527	0.001	0	0	0	0
PL.49001	PD.7311	C	#2 ACSR	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	2.559	0.032	0	0	0	0
PL.48999	PL.63437	ABC	#1/0 ACSR	7.39Y	123.1	0.05	1.89	16.85	7	364	82	98	0.12	0.0	2.690	0.165	1	0	1	60
PL.48996	PL.48999	ABC	#1/0 ACSR	7.39Y	123.1	0.01	1.90	16.68	7	361	81	98	0.04	0.0	2.740	0.050	9	2	2	57
PL.63702	PL.48996	ABC	#1/0 ACSR	7.38Y	123.1	0.04	1.94	14.92	6	322	73	98	0.08	0.0	2.875	0.135	0	0	0	51
PL.63701	PL.63702	A	#1/0 ACSR	7.38Y	123.1	0.00	1.94	1.21	1	9	2	98	0.00	0.0	2.877	0.001	0	0	0	1
PD.7463	PL.63701	A	25QA	7.38Y	123.1	0.00	1.94	1.21	5	9	2	98	0.00	0.0	2.877	0.001	0	0	0	1
PL.48993	PD.7463	A	#1/0 ACSR	7.38Y	123.1	0.00	1.94	1.21	1	9	2	98	0.00	0.0	2.932	0.055	9	2	1	1
PL.63703	PL.63702	C	#4 ACSR	7.38Y	123.1	0.00	1.94	1.10	1	8	2	97	0.00	0.0	2.877	0.002	0	0	0	2
PD.8700	PL.63703	C	12T	7.38Y	123.1	0.00	1.94	1.10	0	8	2	97	0.00	0.0	2.877	0.002	0	0	0	2
PL.58988	PD.8700	C	#4 ACSR	7.38Y	123.1	0.00	1.94	1.10	1	8	2	97	0.00	0.0	2.915	0.038	8	2	1	2
PL.58989	PL.58988	C	#4 ACSR	7.38Y	123.1	0.00	1.94	0.02	0	0	0	100	0.00	0.0	2.969	0.054	0	0	1	1
PL.63700	PL.63702	ABC	#1/0 ACSR	7.38Y	123.0	0.06	2.00	14.15	6	306	69	98	0.12	0.0	3.104	0.229	0	0	0	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: Brodhead

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.63704	PL.63700	B	#1/0 ACSR	7.38Y	123.0	0.00	2.00	42.45	18	306	69	98	0.00	0.0	3.106	0.002	0	0	0	48
PD.9536	PL.63704	B	100CodeSMo	7.38Y	123.0	0.00	2.00	42.45	0	306	69	98	0.00	0.0	3.106	0.002	0	0	0	48
PL.63705	PD.9536	B	#1/0 ACSR	7.38Y	123.0	0.02	2.02	42.45	18	306	69	98	0.04	0.0	3.129	0.023	0	0	0	48
PL.48991	PL.63705	B	6 A (CWC)	7.37Y	122.8	0.15	2.17	41.66	30	300	68	98	0.34	0.1	3.210	0.082	0	0	0	46
PL.48992	PL.48991	B	6 A (CWC)	7.36Y	122.7	0.16	2.33	41.66	30	300	67	98	0.36	0.1	3.296	0.086	0	0	0	46
PL.61852	PL.48992	B	6 A (CWC)	7.34Y	122.3	0.32	2.65	41.66	30	299	67	98	0.72	0.2	3.467	0.170	0	0	0	46
PL.61854	PL.61852	B	6 A (CWC)	7.34Y	122.3	0.00	2.65	0.02	0	0	0	100	0.00	0.0	3.516	0.050	0	0	1	1
PL.61853	PL.61852	B	6 A (CWC)	7.33Y	122.2	0.19	2.85	41.64	30	298	67	98	0.43	0.1	3.572	0.105	14	3	2	45
PL.48983	PL.61853	B	6 A (CWC)	7.33Y	122.1	0.00	2.85	1.63	1	12	3	97	0.00	0.0	3.671	0.099	12	3	2	2
PL.48984	PL.48983	B	6 A (CWC)	7.33Y	122.1	0.00	2.85	0.00	0	0	0	100	0.00	0.0	3.717	0.047	0	0	0	0
PL.48982	PL.61853	B	6 A (CWC)	7.32Y	122.0	0.16	3.01	38.09	27	272	61	98	0.33	0.1	3.667	0.095	5	1	1	41
PL.48981	PL.48982	B	6 A (CWC)	7.32Y	121.9	0.05	3.05	37.33	27	267	59	98	0.09	0.0	3.694	0.027	0	0	0	40
PL.48985	PL.48981	B	6 A (CWC)	7.32Y	121.9	0.02	3.07	10.18	7	73	16	98	0.01	0.0	3.734	0.040	0	0	0	11
PL.60137	PL.48985	B	6 A (CWC)	7.31Y	121.9	0.03	3.10	7.60	5	54	12	98	0.01	0.0	3.810	0.076	0	0	0	9
PL.60136	PL.60137	B	6 A (CWC)	7.31Y	121.9	0.00	3.10	0.59	0	4	1	97	0.00	0.0	3.882	0.072	4	1	1	1
PL.60138	PL.60137	B	6 A (CWC)	7.31Y	121.9	0.01	3.11	7.01	5	50	11	98	0.00	0.0	3.843	0.033	10	2	1	8
PL.60139	PL.60138	B	6 A (CWC)	7.31Y	121.9	0.03	3.14	5.58	4	40	9	98	0.01	0.0	3.964	0.121	0	0	0	7
PL.60134	PL.60139	B	6 A (CWC)	7.31Y	121.9	0.00	3.14	2.11	2	15	3	98	0.00	0.0	4.033	0.069	15	3	2	2
PL.60135	PL.60139	B	6 A (CWC)	7.31Y	121.8	0.01	3.15	3.47	2	25	5	98	0.00	0.0	4.057	0.093	0	0	0	5
PL.48986	PL.60135	B	6 A (CWC)	7.31Y	121.8	0.01	3.17	1.65	1	12	3	97	0.00	0.0	4.239	0.182	0	0	1	3
PL.48987	PL.48986	B	6 A (CWC)	7.31Y	121.8	0.00	3.17	1.64	1	12	3	97	0.00	0.0	4.298	0.059	0	0	0	2
PL.48988	PL.48987	B	6 A (CWC)	7.31Y	121.8	0.00	3.17	1.64	1	12	3	97	0.00	0.0	4.363	0.065	9	2	1	2
PL.48989	PL.48988	B	6 A (CWC)	7.31Y	121.8	0.00	3.17	0.32	0	2	1	89	0.00	0.0	4.434	0.070	2	1	1	1
PL.47672	PL.48989	B	#2 ACSR	7.31Y	121.8	0.00	3.17	0.00	0	0	0	100	0.00	0.0	4.476	0.042	0	0	0	0
PL.45995	PL.48989	B	6 A (CWC)	7.31Y	121.8	0.00	3.17	0.00	0	0	0	100	0.00	0.0	4.494	0.060	0	0	0	0
PL.48990	PL.48989	B	6 A (CWC)	7.31Y	121.8	0.00	3.17	0.00	0	0	0	100	0.00	0.0	4.682	0.248	0	0	0	0
PL.47738	PL.60135	B	6 A (CWC)	7.31Y	121.8	0.00	3.15	0.62	0	4	1	97	0.00	0.0	4.105	0.048	4	1	1	1
PL.47534	PL.60135	B	6 A (CWC)	7.31Y	121.8	0.00	3.15	1.20	1	9	2	98	0.00	0.0	4.090	0.032	9	2	1	1
PL.47674	PL.48985	B	6 A (CWC)	7.32Y	121.9	0.00	3.08	2.58	2	18	4	98	0.00	0.0	3.797	0.062	18	4	2	2
PL.47395	PL.48981	B	#4 ACSR	7.31Y	121.9	0.06	3.11	27.14	21	194	43	98	0.09	0.0	3.744	0.050	0	0	0	29
PL.47633	PL.47395	B	#4 ACSR	7.31Y	121.9	0.00	3.12	3.36	3	24	5	98	0.00	0.0	3.777	0.033	24	5	3	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: Brodhead

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.48980	PL.47395	B	#4 ACSR	7.31Y	121.9	0.00	3.11	23.79	18	170	38	98	0.00	0.0	3.745	0.001	0	0	0	26
PL.62097	PL.48980	B	#4 ACSR	7.31Y	121.9	0.00	3.12	23.79	18	170	38	98	0.00	0.0	3.748	0.003	0	0	0	26
PD.9363	PL.62097	B	25T	7.31Y	121.9	0.00	3.12	23.79	0	170	38	98	0.00	0.0	3.748	0.003	0	0	0	26
PL.62098	PD.9363	B	#4 ACSR	7.31Y	121.8	0.05	3.17	23.79	18	170	38	98	0.06	0.0	3.795	0.047	0	0	0	26
PL.48978	PL.62098	B	#4 ACSR	7.31Y	121.8	0.00	3.17	5.21	4	37	8	98	0.00	0.0	3.810	0.015	0	0	1	6
PL.48979	PL.48978	B	#4 ACSR	7.31Y	121.8	0.01	3.18	5.14	4	37	8	98	0.00	0.0	3.889	0.079	14	3	2	5
PL.58969	PL.48979	B	#4 ACSR	7.31Y	121.8	0.01	3.19	3.13	2	22	5	98	0.00	0.0	3.932	0.042	4	1	1	3
PL.58970	PL.58969	B	#4 ACSR	7.31Y	121.8	0.00	3.19	2.55	2	18	4	98	0.00	0.0	3.998	0.067	18	4	2	2
PL.48977	PL.62098	B	#4 ACSR	7.30Y	121.7	0.10	3.27	18.58	14	133	30	98	0.10	0.1	3.942	0.147	34	8	3	20
PL.48976	PL.48977	B	#4 ACSR	7.30Y	121.7	0.02	3.30	13.80	11	98	22	98	0.02	0.0	3.983	0.041	6	1	1	17
PL.48975	PL.48976	B	#4 ACSR	7.30Y	121.7	0.04	3.33	12.98	10	93	21	98	0.02	0.0	4.048	0.066	7	2	1	16
PL.48974	PL.48975	B	#4 ACSR	7.30Y	121.6	0.03	3.36	9.72	7	69	15	98	0.02	0.0	4.121	0.072	0	0	0	12
PL.48973	PL.48974	B	#4 ACSR	7.29Y	121.6	0.07	3.43	9.72	7	69	15	98	0.03	0.0	4.280	0.159	5	1	1	12
PL.48972	PL.48973	B	#4 ACSR	7.29Y	121.5	0.05	3.48	9.08	7	65	14	98	0.03	0.0	4.415	0.135	0	0	0	11
PL.47287	PL.48972	B	#4 ACSR	7.29Y	121.5	0.00	3.49	3.40	3	24	5	98	0.00	0.0	4.481	0.066	24	5	4	4
PL.48971	PL.48972	B	#4 ACSR	7.29Y	121.5	0.06	3.54	5.69	4	40	9	98	0.02	0.0	4.694	0.280	8	2	1	7
PL.48242	PL.48971	B	#4 ACSR	7.29Y	121.4	0.01	3.55	4.57	4	33	7	98	0.00	0.0	4.726	0.031	9	2	1	6
PL.61967	PL.48242	B	#4 ACSR	7.29Y	121.4	0.01	3.56	3.29	3	23	5	98	0.00	0.0	4.763	0.037	0	0	0	5
PL.62122	PL.61967	B	#4 ACSR	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	4.923	0.160	0	0	0	0
PL.61966	PL.61967	B	6 A (CWC)	7.29Y	121.4	0.01	3.57	3.29	2	23	5	98	0.00	0.0	4.874	0.111	10	2	2	5
PL.60159	PL.61966	B	#1/0 ACSR	7.29Y	121.4	0.00	3.57	1.91	1	14	3	98	0.00	0.0	4.896	0.021	14	3	3	3
PL.47629	PL.48975	B	#4 ACSR	7.30Y	121.7	0.00	3.33	2.26	2	16	4	97	0.00	0.0	4.099	0.051	16	4	3	3
PL.48777	PL.63705	B	#4 ACSR	7.38Y	123.0	0.01	2.03	0.79	1	6	1	99	0.00	0.0	3.344	0.215	0	0	0	2
PL.47713	PL.48777	B	#4 ACSR	7.38Y	123.0	0.00	2.03	0.76	1	6	1	99	0.00	0.0	3.540	0.195	6	1	1	1
PL.48778	PL.48777	B	#4 ACSR	7.38Y	123.0	0.00	2.03	0.03	0	0	0	100	0.00	0.0	3.554	0.210	0	0	1	1
PL.48994	PL.48996	A	6 A (CWC)	7.39Y	123.1	0.00	1.91	4.09	3	29	7	97	0.00	0.0	2.742	0.001	0	0	0	4
PD.7521	PL.48994	A	25QA	7.39Y	123.1	0.00	1.91	4.09	16	29	7	97	0.00	0.0	2.742	0.001	0	0	0	4
PL.48995	PD.7521	A	6 A (CWC)	7.39Y	123.1	0.00	1.91	4.09	3	29	7	97	0.00	0.0	2.769	0.027	29	7	4	4
PL.48997	PL.48999	C	#1/0 ACSR	7.39Y	123.1	0.00	1.89	0.33	0	2	1	89	0.00	0.0	2.692	0.001	0	0	0	2
PD.7462	PL.48997	C	25QA	7.39Y	123.1	0.00	1.89	0.33	1	2	1	89	0.00	0.0	2.692	0.001	0	0	0	2
PL.48998	PD.7462	C	#1/0 ACSR	7.39Y	123.1	0.00	1.89	0.33	0	2	1	89	0.00	0.0	2.734	0.042	2	1	2	2

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Balanced Voltage Drop Report
Source: Brodhead

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.49005	PL.49007	B	6 A (CWC)	7.39Y	123.2	0.00	1.81	3.54	3	26	6	97	0.00	0.0	2.419	0.001	0	0	0	4
PD.7507	PL.49005	B	40QA	7.39Y	123.2	0.00	1.81	3.54	9	26	6	97	0.00	0.0	2.419	0.001	0	0	0	4
PL.49006	PD.7507	B	6 A (CWC)	7.39Y	123.2	0.01	1.82	3.54	3	26	6	97	0.00	0.0	2.478	0.059	0	0	0	4
PL.47635	PL.49006	B	6 A (CWC)	7.39Y	123.2	0.00	1.82	0.00	0	0	0	100	0.00	0.0	2.551	0.074	0	0	0	0
PL.46901	PL.49006	B	6 A (CWC)	7.39Y	123.2	0.00	1.82	1.63	1	12	3	97	0.00	0.0	2.513	0.036	12	3	1	1
PL.49004	PL.49006	B	6 A (CWC)	7.39Y	123.2	0.00	1.82	1.91	1	14	3	98	0.00	0.0	2.512	0.034	9	2	2	3
PL.58976	PL.49004	B	#1/0 ACSR	7.39Y	123.2	0.00	1.82	0.69	0	5	1	98	0.00	0.0	2.516	0.004	0	0	0	1
PD.8666	PL.58976	B	15T	7.39Y	123.2	0.00	1.82	0.69	0	5	1	98	0.00	0.0	2.516	0.004	0	0	0	1
PL.58977	PD.8666	B	#1/0 ACSR	7.39Y	123.2	0.00	1.82	0.69	0	5	1	98	0.00	0.0	2.648	0.133	5	1	1	1
PL.52093	PL.52091	ABC	336 MCM AC	7.39Y	123.2	0.05	1.77	79.71	15	1669	586	94	0.46	0.0	2.197	0.085	0	0	0	157
PL.48499	PL.52093	C	#4 ACSR	7.39Y	123.2	0.00	1.77	6.88	5	50	11	98	0.00	0.0	2.198	0.001	0	0	0	4
PD.7530	PL.48499	C	75QA	7.39Y	123.2	0.00	1.77	6.88	9	50	11	98	0.00	0.0	2.198	0.001	0	0	0	4
PL.48500	PD.7530	C	#4 ACSR	7.39Y	123.2	0.02	1.79	6.88	5	50	11	98	0.01	0.0	2.274	0.076	0	0	0	4
PL.64663	PL.48500	C	#1/0 ACSR	7.39Y	123.2	0.00	1.79	1.76	1	13	3	97	0.00	0.0	2.370	0.096	0	0	0	1
PL.64664	PL.64663	C	#1/0 ACSR	7.39Y	123.2	0.00	1.79	1.76	1	13	3	97	0.00	0.0	2.370	0.000	13	3	1	1
PL.48501	PL.48500	C	#4 ACSR	7.39Y	123.2	0.02	1.81	5.12	4	37	8	98	0.01	0.0	2.393	0.119	10	2	1	3
PL.48502	PL.48501	C	#4 ACSR	7.39Y	123.2	0.01	1.82	3.74	3	27	6	98	0.00	0.0	2.463	0.070	27	6	2	2
PL.52095	PL.52093	ABC	336 MCM AC	7.39Y	123.1	0.12	1.88	77.43	15	1619	574	94	0.96	0.1	2.387	0.191	3	1	2	153
PL.52096	PL.52095	ABC	336 MCM AC	7.38Y	123.1	0.06	1.95	77.28	15	1615	571	94	0.49	0.0	2.486	0.099	21	5	3	151
PL.52097	PL.52096	ABC	336 MCM AC	7.38Y	123.0	0.02	1.97	76.33	15	1593	565	94	0.18	0.0	2.523	0.037	0	0	0	148
PL.48509	PL.52097	A	#4 ACSR	7.38Y	123.0	0.00	1.97	4.28	3	31	7	98	0.00	0.0	2.524	0.001	0	0	0	4
PD.7344	PL.48509	A	75QA	7.38Y	123.0	0.00	1.97	4.28	6	31	7	98	0.00	0.0	2.524	0.001	0	0	0	4
PL.48510	PD.7344	A	#4 ACSR	7.38Y	123.0	0.00	1.97	4.28	3	31	7	98	0.00	0.0	2.554	0.029	9	2	1	4
PL.48511	PL.48510	A	#4 ACSR	7.38Y	123.0	0.00	1.98	3.07	2	22	5	98	0.00	0.0	2.601	0.047	22	5	3	3
PL.48506	PL.52097	ABC	336 MCM AC	7.38Y	123.0	0.04	2.01	74.54	14	1554	556	94	0.33	0.0	2.595	0.072	6	1	1	143
PL.48771	PL.48506	C	#4 ACSR	7.38Y	123.0	0.00	2.02	3.94	3	28	6	98	0.00	0.0	2.632	0.037	19	4	3	4
PL.48772	PL.48771	C	#4 ACSR	7.38Y	123.0	0.00	2.02	1.29	1	9	2	98	0.00	0.0	2.666	0.034	9	2	1	1
PL.47518	PL.48506	ABC	#3/0 ACSR	7.38Y	123.0	0.03	2.04	16.80	6	363	81	98	0.07	0.0	2.736	0.141	0	0	0	65
PL.48512	PL.47518	ABC	#1/0 ACSR	7.38Y	123.0	0.00	2.04	16.80	7	363	81	98	0.00	0.0	2.737	0.001	0	0	0	65
PD.7606	PL.48512	ABC	70L	7.38Y	123.0	0.00	2.04	16.80	24	363	81	98	0.00	0.0	2.737	0.001	0	0	0	65
PL.48513	PD.7606	ABC	#1/0 ACSR	7.38Y	122.9	0.01	2.05	16.80	7	363	81	98	0.03	0.0	2.776	0.039	0	0	0	65

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Balanced Voltage Drop Report
Source: Brodhead

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.48514	PL.48513	B	#2 ACSR	7.38Y	122.9	0.00	2.05	1.95	1	14	3	98	0.00	0.0	2.777	0.001	0	0	0	2
PD.7391	PL.48514	B	25QA	7.38Y	122.9	0.00	2.05	1.95	8	14	3	98	0.00	0.0	2.777	0.001	0	0	0	2
PL.48515	PD.7391	B	#2 ACSR	7.38Y	122.9	0.00	2.05	1.95	1	14	3	98	0.00	0.0	2.795	0.019	14	3	2	2
PL.48516	PL.48513	ABC	#1/0 ACSR	7.37Y	122.9	0.05	2.10	16.15	7	349	78	98	0.12	0.0	2.949	0.173	0	0	0	63
PL.58508	PL.48516	C	#2 ACSR	7.37Y	122.9	0.00	2.10	1.86	1	13	3	97	0.00	0.0	2.951	0.003	0	0	0	2
PD.8701	PL.58508	C	20T	7.37Y	122.9	0.00	2.10	1.86	0	13	3	97	0.00	0.0	2.951	0.003	0	0	0	2
PL.58509	PD.8701	C	#2 ACSR	7.37Y	122.9	0.00	2.10	1.86	1	13	3	97	0.00	0.0	3.000	0.048	13	3	1	2
PL.58507	PL.58509	C	#2 ACSR	7.37Y	122.9	0.00	2.10	0.00	0	0	0	100	0.00	0.0	3.232	0.232	0	0	1	1
PL.48774	PL.48516	ABC	#1/0 ACSR	7.37Y	122.9	0.04	2.14	15.53	7	335	75	98	0.10	0.0	3.106	0.157	9	2	1	61
PL.48775	PL.48774	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.16	15.10	7	326	73	98	0.03	0.0	3.163	0.057	5	1	2	60
PL.48779	PL.48775	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.17	11.57	5	250	56	98	0.02	0.0	3.224	0.061	0	0	0	47
PL.48784	PL.48779	C	#4 ACSR	7.37Y	122.8	0.00	2.17	0.98	1	7	2	96	0.00	0.0	3.225	0.002	0	0	0	2
PD.7501	PL.48784	C	25QA	7.37Y	122.8	0.00	2.17	0.98	4	7	2	96	0.00	0.0	3.225	0.002	0	0	0	2
PL.48785	PD.7501	C	#4 ACSR	7.37Y	122.8	0.00	2.17	0.98	1	7	2	96	0.00	0.0	3.238	0.012	7	2	2	2
PL.48786	PL.48779	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.19	10.56	5	228	51	98	0.03	0.0	3.332	0.108	5	1	1	42
PL.48787	PL.48786	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.20	10.34	4	223	50	98	0.02	0.0	3.406	0.073	5	1	1	41
PL.48788	PL.48787	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.21	10.12	4	218	48	98	0.01	0.0	3.461	0.056	7	2	1	40
PL.48791	PL.48788	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.22	9.30	4	201	45	98	0.02	0.0	3.539	0.078	16	4	1	38
PL.48794	PL.48791	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.23	6.26	3	135	30	98	0.00	0.0	3.561	0.022	2	1	1	28
PL.48796	PL.48794	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.23	6.14	3	133	29	98	0.00	0.0	3.612	0.051	5	1	1	27
PL.64759	PL.48796	C	#4 ACSR	7.37Y	122.8	0.00	2.23	0.91	1	7	1	99	0.00	0.0	3.612	0.000	0	0	0	1
PL.64760	PL.64759	C	#4 ACSR	7.37Y	122.8	0.00	2.23	0.91	1	7	1	99	0.00	0.0	3.614	0.002	0	0	0	1
PD.7536	PL.64760	C	20T	7.37Y	122.8	0.00	2.23	0.91	0	7	1	99	0.00	0.0	3.614	0.002	0	0	0	1
PL.48799	PD.7536	C	#4 ACSR	7.37Y	122.8	0.00	2.23	0.91	1	7	1	99	0.00	0.0	3.636	0.023	0	0	0	1
PL.48798	PL.48799	C	#4 ACSR	7.37Y	122.8	0.00	2.24	0.91	1	7	1	99	0.00	0.0	3.731	0.094	7	1	1	1
PL.48797	PL.48796	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.24	5.62	2	121	27	98	0.01	0.0	3.699	0.087	4	1	1	25
PL.48800	PL.48797	C	6 A (CWC)	7.37Y	122.8	0.00	2.24	3.51	3	25	6	97	0.00	0.0	3.701	0.002	0	0	0	4
PD.7312	PL.48800	C	25QA	7.37Y	122.8	0.00	2.24	3.51	14	25	6	97	0.00	0.0	3.701	0.002	0	0	0	4
PL.48801	PD.7312	C	6 A (CWC)	7.36Y	122.7	0.01	2.25	3.51	3	25	6	97	0.00	0.0	3.761	0.060	0	0	0	4
PL.48803	PL.48801	C	#1/0 ACSR	7.36Y	122.7	0.00	2.25	0.90	0	6	1	99	0.00	0.0	3.810	0.048	0	0	0	1
PL.48804	PL.48803	C	#1/0 ACSR	7.36Y	122.7	0.00	2.25	0.90	0	6	1	99	0.00	0.0	3.867	0.057	6	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: Brodhead

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.48802	PL.48801	C	6 A (CWC)	7.36Y	122.7	0.00	2.25	2.61	2	19	4	98	0.00	0.0	3.794	0.033	19	4	3	3
PL.48805	PL.48797	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.25	4.27	2	92	20	98	0.00	0.0	3.802	0.103	0	0	0	20
PL.48809	PL.48805	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.25	3.49	2	75	17	98	0.00	0.0	3.853	0.052	0	0	1	16
PL.48812	PL.48809	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.26	3.49	2	75	17	98	0.00	0.0	3.939	0.085	0	0	0	15
PL.48813	PL.48812	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.26	3.49	2	75	17	98	0.00	0.0	3.965	0.026	9	2	1	15
PL.49105	PL.48813	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.26	3.07	1	66	15	98	0.00	0.0	4.028	0.062	6	1	1	14
PL.49112	PL.49105	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.26	2.37	1	51	11	98	0.00	0.0	4.104	0.077	0	0	0	12
PL.48597	PL.49112	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.27	0.85	0	18	4	98	0.00	0.0	4.139	0.035	0	0	1	4
PL.57415	PL.48597	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.27	0.85	0	18	4	98	0.00	0.0	4.184	0.045	0	0	0	3
PL.57416	PL.57415	C	#4 ACSR	7.36Y	122.7	0.00	2.27	2.56	2	18	4	98	0.00	0.0	4.190	0.006	0	0	0	3
PD.8284	PL.57416	C	25T	7.36Y	122.7	0.00	2.27	2.56	0	18	4	98	0.00	0.0	4.190	0.006	0	0	0	3
PL.57418	PD.8284	C	#4 ACSR	7.36Y	122.7	0.01	2.28	2.56	2	18	4	98	0.00	0.0	4.310	0.121	8	2	1	3
PL.57414	PL.57418	C	#4 ACSR	7.36Y	122.7	0.00	2.28	1.51	1	11	2	98	0.00	0.0	4.366	0.055	0	0	0	2
PL.47523	PL.57414	C	#4 ACSR	7.36Y	122.7	0.00	2.28	0.67	1	5	1	98	0.00	0.0	4.508	0.142	5	1	1	1
PL.48599	PL.57414	C	#4 ACSR	7.36Y	122.7	0.00	2.28	0.84	1	6	1	99	0.00	0.0	4.389	0.024	0	0	0	1
PL.48600	PL.48599	C	#4 ACSR	7.36Y	122.7	0.00	2.28	0.84	1	6	1	99	0.00	0.0	4.500	0.111	6	1	1	1
PL.56318	PL.48600	C	#4 ACSR	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	4.566	0.066	0	0	0	0
PL.57417	PL.57415	C	#4 ACSR	7.36Y	122.7	0.00	2.27	0.00	0	0	0	100	0.00	0.0	4.185	0.002	0	0	0	0
PD.7547	PL.57417	C	25QA	7.36Y	122.7	0.00	2.27	0.00	0	0	0	100	0.00	0.0	4.185	0.002	0	0	0	0
PL.48598	PD.7547	C	#4 ACSR	7.36Y	122.7	0.00	2.27	0.00	0	0	0	100	0.00	0.0	4.242	0.056	0	0	0	0
PL.49114	PL.49112	C	#4 ACSR	7.36Y	122.7	0.00	2.27	2.60	2	19	4	98	0.00	0.0	4.105	0.001	0	0	0	5
PD.7571	PL.49114	C	25QA	7.36Y	122.7	0.00	2.27	2.60	10	19	4	98	0.00	0.0	4.105	0.001	0	0	0	5
PL.60145	PD.7571	C	#4 ACSR	7.36Y	122.7	0.01	2.27	2.60	2	19	4	98	0.00	0.0	4.177	0.072	11	2	2	5
PL.60146	PL.60145	C	#4 ACSR	7.36Y	122.7	0.00	2.27	1.08	1	8	2	97	0.00	0.0	4.209	0.032	0	0	0	3
PL.60147	PL.60146	C	1/0 AL URD	7.36Y	122.7	0.00	2.27	1.08	1	8	2	97	0.00	0.0	4.213	0.003	0	0	0	3
PD.8920	PL.60147	C	40QA	7.36Y	122.7	0.00	2.27	1.08	3	8	2	97	0.00	0.0	4.213	0.003	0	0	0	3
PL.63710	PD.8920	C	1/0 AL URD	7.36Y	122.7	0.00	2.27	1.08	1	8	2	97	0.00	0.0	4.223	0.010	0	0	1	3
PL.63709	PL.63710	C	1/0 AL URD	7.36Y	122.7	0.00	2.27	1.08	1	8	2	97	0.00	0.0	4.244	0.021	2	1	1	2
PL.63708	PL.63709	C	1/0 AL URD	7.36Y	122.7	0.00	2.27	0.73	0	5	1	98	0.00	0.0	4.262	0.018	0	0	0	1
PL.57879	PL.63708	C	1/0 AL URD	7.36Y	122.7	0.00	2.27	0.73	0	5	1	98	0.00	0.0	4.276	0.015	5	1	1	1
PL.49113	PL.49112	C	#4 ACSR	7.36Y	122.7	0.00	2.27	1.96	2	14	3	98	0.00	0.0	4.106	0.001	0	0	0	3

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Balanced Voltage Drop Report
Source: Brodhead

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.7546	PL.49113	C	25QA	7.36Y	122.7	0.00	2.27	1.96	8	14	3	98	0.00	0.0	4.106	0.001	0	0	0	3
PL.57395	PD.7546	C	#4 ACSR	7.36Y	122.7	0.00	2.27	1.96	2	14	3	98	0.00	0.0	4.140	0.034	14	3	3	3
PL.49106	PL.49105	C	#4 ACSR	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	4.029	0.001	0	0	0	0
PD.7506	PL.49106	C	25QA	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	4.029	0.001	0	0	0	0
PL.49107	PD.7506	C	#4 ACSR	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	4.132	0.104	0	0	0	0
PL.49110	PL.49105	A	#2 ACSR	7.36Y	122.7	0.00	2.26	1.20	1	9	2	98	0.00	0.0	4.029	0.001	0	0	0	1
PD.7461	PL.49110	A	40QA	7.36Y	122.7	0.00	2.26	1.20	3	9	2	98	0.00	0.0	4.029	0.001	0	0	0	1
PL.49111	PD.7461	A	#2 ACSR	7.36Y	122.7	0.00	2.26	1.20	1	9	2	98	0.00	0.0	4.029	0.000	0	0	0	1
PL.49108	PL.49111	A	#2 ACSR	7.36Y	122.7	0.00	2.26	1.20	1	9	2	98	0.00	0.0	4.049	0.020	9	2	1	1
PL.49109	PL.49108	A	#2 ACSR	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	4.092	0.043	0	0	0	0
PL.48806	PL.48805	A	#4 ACSR	7.37Y	122.8	0.00	2.25	0.98	1	7	2	96	0.00	0.0	3.803	0.001	0	0	0	2
PD.7483	PL.48806	A	25QA	7.37Y	122.8	0.00	2.25	0.98	4	7	2	96	0.00	0.0	3.803	0.001	0	0	0	2
PL.48807	PD.7483	A	#4 ACSR	7.37Y	122.8	0.00	2.25	0.98	1	7	2	96	0.00	0.0	3.860	0.057	7	2	2	2
PL.48808	PL.48805	C	#4 ACSR	7.37Y	122.8	0.00	2.25	1.36	1	10	2	98	0.00	0.0	3.803	0.001	0	0	0	2
PD.7460	PL.48808	C	25QA	7.37Y	122.8	0.00	2.25	1.36	5	10	2	98	0.00	0.0	3.803	0.001	0	0	0	2
PL.48810	PD.7460	C	#4 ACSR	7.36Y	122.7	0.01	2.25	1.36	1	10	2	98	0.00	0.0	3.909	0.107	3	1	1	2
PL.48811	PL.48810	C	#4 ACSR	7.36Y	122.7	0.00	2.26	0.97	1	7	2	96	0.00	0.0	3.963	0.053	7	2	1	1
PL.48792	PL.48791	A	#4 ACSR	7.37Y	122.8	0.00	2.23	6.89	5	50	11	98	0.00	0.0	3.541	0.001	0	0	0	9
PD.7363	PL.48792	A	25QA	7.37Y	122.8	0.00	2.23	6.89	28	50	11	98	0.00	0.0	3.541	0.001	0	0	0	9
PL.48793	PD.7363	A	#4 ACSR	7.37Y	122.8	0.00	2.23	6.89	5	50	11	98	0.00	0.0	3.552	0.012	19	4	2	9
PL.61692	PL.48793	A	#4 ACSR	7.37Y	122.8	0.02	2.24	4.30	3	31	7	98	0.00	0.0	3.644	0.092	1	0	1	7
PL.61693	PL.61692	A	#4 ACSR	7.37Y	122.8	0.00	2.25	4.13	3	30	7	97	0.00	0.0	3.684	0.040	19	4	3	6
PL.48795	PL.61693	A	#4 ACSR	7.36Y	122.7	0.00	2.25	1.43	1	10	2	98	0.00	0.0	3.752	0.068	10	2	3	3
PL.48789	PL.48788	A	#2 ACSR	7.37Y	122.8	0.00	2.21	1.49	1	11	2	98	0.00	0.0	3.463	0.001	0	0	0	1
PD.7597	PL.48789	A	25QA	7.37Y	122.8	0.00	2.21	1.49	6	11	2	98	0.00	0.0	3.463	0.001	0	0	0	1
PL.48790	PD.7597	A	#2 ACSR	7.37Y	122.8	0.00	2.21	1.49	1	11	2	98	0.00	0.0	3.499	0.037	11	2	1	1
PL.48780	PL.48779	A	#2 ACSR	7.37Y	122.8	0.00	2.17	0.74	0	5	1	98	0.00	0.0	3.225	0.001	0	0	0	1
PD.7362	PL.48780	A	25QA	7.37Y	122.8	0.00	2.17	0.74	3	5	1	98	0.00	0.0	3.225	0.001	0	0	0	1
PL.48781	PD.7362	A	#2 ACSR	7.37Y	122.8	0.00	2.17	0.74	0	5	1	98	0.00	0.0	3.265	0.040	5	1	1	1
PL.48782	PL.48779	A	#2 ACSR	7.37Y	122.8	0.00	2.17	1.31	1	9	2	98	0.00	0.0	3.225	0.001	0	0	0	2
PD.7390	PL.48782	A	25QA	7.37Y	122.8	0.00	2.17	1.31	5	9	2	98	0.00	0.0	3.225	0.001	0	0	0	2

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Balanced Voltage Drop Report
Source: Brodhead

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.48783	PD.7390	A	#2 ACSR	7.37Y	122.8	0.00	2.17	1.31	1	9	2	98	0.00	0.0	3.302	0.077	9	2	2	2
PL.46898	PL.48775	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.16	3.30	1	71	16	98	0.00	0.0	3.206	0.044	3	1	1	11
PL.48036	PL.46898	A	6 A (CWC)	7.37Y	122.8	0.05	2.21	9.47	7	68	15	98	0.03	0.0	3.332	0.125	0	0	0	10
PL.49115	PL.48036	A	6 A (CWC)	7.36Y	122.7	0.04	2.26	9.47	7	68	15	98	0.02	0.0	3.439	0.108	7	2	2	10
PL.49116	PL.49115	A	6 A (CWC)	7.36Y	122.7	0.07	2.33	8.51	6	61	14	97	0.03	0.1	3.626	0.186	0	0	0	8
PL.49117	PL.49116	A	6 A (CWC)	7.36Y	122.7	0.01	2.34	7.31	5	53	12	98	0.01	0.0	3.672	0.047	8	2	1	7
PL.49118	PL.49117	A	6 A (CWC)	7.36Y	122.6	0.05	2.39	6.14	4	44	10	98	0.02	0.0	3.850	0.178	0	0	0	6
PL.49122	PL.49118	A	#4 ACSR	7.36Y	122.6	0.01	2.40	1.65	1	12	3	97	0.00	0.0	3.929	0.079	0	0	0	2
PL.46747	PL.49122	A	#1/0 ACSR	7.36Y	122.6	0.00	2.40	0.95	0	7	2	96	0.00	0.0	4.012	0.083	7	2	1	1
PL.49123	PL.49122	A	#4 ACSR	7.36Y	122.6	0.00	2.40	0.70	1	5	1	98	0.00	0.0	4.026	0.097	5	1	1	1
PL.49119	PL.49118	A	#1/0 ACSR	7.36Y	122.6	0.00	2.39	4.48	2	32	7	98	0.00	0.0	3.878	0.028	17	4	2	4
PL.49120	PL.49119	A	#1/0 ACSR	7.36Y	122.6	0.00	2.40	2.10	1	15	3	98	0.00	0.0	3.944	0.065	9	2	1	2
PL.49121	PL.49120	A	#1/0 ACSR	7.36Y	122.6	0.00	2.40	0.91	0	7	1	99	0.00	0.0	3.953	0.009	7	1	1	1
PL.46746	PL.49119	A	#1/0 ACSR	7.36Y	122.6	0.00	2.39	0.00	0	0	0	100	0.00	0.0	3.894	0.015	0	0	0	0
PL.47521	PL.49116	A	#2 ACSR	7.36Y	122.7	0.00	2.33	1.19	1	9	2	98	0.00	0.0	3.692	0.066	9	2	1	1
PL.48770	PL.48506	ABC	336 MCM AC	7.38Y	123.0	0.01	2.03	56.34	11	1157	467	93	0.08	0.0	2.626	0.032	1	0	1	73
PL.52098	PL.48770	ABC	336 MCM AC	7.38Y	122.9	0.04	2.07	56.27	11	1155	466	93	0.24	0.0	2.715	0.088	0	0	0	72
PL.52099	PL.52098	ABC	336 MCM AC	7.37Y	122.9	0.03	2.10	56.27	11	1155	466	93	0.18	0.0	2.783	0.068	9	2	1	72
PL.48768	PL.52099	C	6 A (CWC)	7.37Y	122.9	0.00	2.10	2.64	2	19	4	98	0.00	0.0	2.784	0.001	0	0	0	2
PD.7464	PL.48768	C	75QA	7.37Y	122.9	0.00	2.10	2.64	4	19	4	98	0.00	0.0	2.784	0.001	0	0	0	2
PL.47294	PD.7464	C	6 A (CWC)	7.37Y	122.9	0.01	2.11	2.64	2	19	4	98	0.00	0.0	2.950	0.166	19	4	2	2
PL.48773	PL.47294	C	6 A (CWC)	7.37Y	122.9	0.00	2.11	0.00	0	0	0	100	0.00	0.0	3.179	0.229	0	0	0	0
PL.48769	PL.52099	ABC	336 MCM AC	7.37Y	122.8	0.06	2.16	55.01	11	1127	459	93	0.30	0.0	2.901	0.119	0	0	0	69
PL.47252	PL.48769	ABC	336 MCM AC	7.37Y	122.8	0.00	2.16	55.01	11	1127	458	93	0.01	0.0	2.905	0.003	0	0	0	69
PL.51715	PL.47252	ABC	336 MCM AC	7.37Y	122.8	0.00	2.16	55.01	11	1127	458	93	0.00	0.0	2.905	0.000	0	0	0	69
PD.7906	PL.51715	ABC	200VWE	7.37Y	122.8	0.00	2.16	55.01	0	1127	458	93	0.00	0.0	2.905	0.000	0	0	0	69
PL.52101	PD.7906	ABC	336 MCM AC	7.37Y	122.8	0.02	2.18	55.01	11	1127	458	93	0.11	0.0	2.949	0.044	9	2	1	69
PL.52100	PL.52101	ABC	#3/0 ACSR	7.35Y	122.4	0.40	2.58	54.61	18	1118	456	93	2.70	0.2	3.489	0.539	0	0	1	68
PL.48776	PL.52100	ABC	#3/0 ACSR	7.34Y	122.3	0.08	2.66	54.59	18	1115	452	93	0.53	0.0	3.594	0.106	0	0	0	67
PL.62121	PL.48776	B	#4 ACSR	7.34Y	122.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	3.597	0.003	0	0	0	0
PL.47818	PL.48776	ABC	#3/0 ACSR	7.34Y	122.3	0.06	2.72	53.55	18	1092	446	93	0.41	0.0	3.679	0.085	0	0	0	61

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Balanced Voltage Drop Report
Source: Brodhead

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.47819	PL.47818	ABC	#3/0 ACSR	7.33Y	122.2	0.06	2.78	52.96	18	1078	443	92	0.36	0.0	3.756	0.077	3	1	1	59
PL.47817	PL.47819	ABC	#3/0 ACSR	7.33Y	122.2	0.05	2.83	52.82	18	1075	442	92	0.35	0.0	3.831	0.075	0	0	0	58
PL.47813	PL.47817	A	#4 ACSR	7.33Y	122.2	0.00	2.83	2.40	2	17	4	97	0.00	0.0	3.832	0.001	0	0	0	4
PD.7522	PL.47813	A	60QA	7.33Y	122.2	0.00	2.83	2.40	4	17	4	97	0.00	0.0	3.832	0.001	0	0	0	4
PL.47814	PD.7522	A	#4 ACSR	7.33Y	122.1	0.02	2.85	2.40	2	17	4	97	0.00	0.0	3.988	0.157	1	0	1	4
PL.47815	PL.47814	A	#4 ACSR	7.33Y	122.1	0.00	2.85	1.31	1	9	2	98	0.00	0.0	4.044	0.055	0	0	0	2
PL.47382	PL.47815	A	#4 ACSR	7.33Y	122.1	0.00	2.85	0.53	0	4	1	97	0.00	0.0	4.070	0.026	4	1	1	1
PL.47816	PL.47815	A	#4 ACSR	7.33Y	122.1	0.00	2.86	0.77	1	6	1	99	0.00	0.0	4.122	0.078	6	1	1	1
PL.47412	PL.47814	A	#4 ACSR	7.33Y	122.1	0.00	2.85	0.99	1	7	2	96	0.00	0.0	4.058	0.070	7	2	1	1
PL.58984	PL.47817	ABC	#3/0 ACSR	7.32Y	121.9	0.22	3.05	52.03	17	1057	437	92	1.39	0.1	4.138	0.307	7	1	1	54
PL.58985	PL.58984	ABC	#3/0 ACSR	7.31Y	121.9	0.06	3.11	51.73	17	1049	434	92	0.38	0.0	4.222	0.084	0	0	0	53
PL.57920	PL.58985	ABC	#3/0 ACSR	7.31Y	121.9	0.02	3.14	51.30	17	1040	431	92	0.13	0.0	4.252	0.030	0	0	0	52
PL.57917	PL.57920	ABC	#3/0 ACSR	7.30Y	121.7	0.15	3.29	51.30	17	1040	431	92	0.95	0.1	4.466	0.214	0	0	0	52
PL.57918	PL.57917	ABC	#3/0 ACSR	7.30Y	121.7	0.03	3.32	50.96	17	1031	428	92	0.19	0.0	4.509	0.044	0	0	0	51
PL.51559	PL.57918	ABC	#3/0 ACSR	7.30Y	121.7	0.00	3.32	50.96	17	1031	428	92	0.01	0.0	4.511	0.002	0	0	0	51
PL.51560	PL.51559	ABC	#3/0 ACSR	7.29Y	121.5	0.13	3.45	50.96	17	1031	428	92	0.81	0.1	4.697	0.186	0	0	0	51
PL.51557	PL.51560	ABC	#3/0 ACSR	7.29Y	121.5	0.00	3.45	0.79	0	17	4	97	0.00	0.0	4.753	0.056	17	4	2	2
PL.51558	PL.51560	ABC	#3/0 ACSR	7.29Y	121.5	0.07	3.52	50.18	17	1013	423	92	0.44	0.0	4.802	0.105	0	0	0	49
PL.48822	PL.51558	A	6 A (CWC)	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	4.805	0.003	0	0	0	0
PD.7467	PL.48822	A	60QA	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	4.805	0.003	0	0	0	0
PL.46906	PD.7467	A	6 A (CWC)	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	4.994	0.189	0	0	0	0
PL.46739	PL.46906	A	#4 ACSR	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	5.048	0.054	0	0	0	0
PL.46730	PL.46906	A	6 A (CWC)	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	5.060	0.066	0	0	0	0
PL.48820	PL.51558	ABC	#3/0 ACSR	7.29Y	121.4	0.05	3.57	50.18	17	1013	422	92	0.28	0.0	4.868	0.066	0	0	0	49
PL.48821	PL.48820	ABC	#3/0 ACSR	7.28Y	121.3	0.12	3.69	50.18	17	1013	422	92	0.71	0.1	5.035	0.167	0	0	0	49
PL.48196	PL.48821	ABC	#3/0 ACSR	7.27Y	121.2	0.15	3.83	50.18	17	1012	421	92	0.89	0.1	5.246	0.211	0	0	0	48
PL.48195	PL.48196	ABC	#3/0 ACSR	7.27Y	121.2	0.02	3.85	20.76	7	408	197	90	0.04	0.0	5.298	0.052	0	0	0	3
PL.48215	PL.48195	ABC	#3/0 ACSR	7.27Y	121.2	0.00	3.85	20.76	7	408	197	90	0.01	0.0	5.307	0.010	0	0	0	3
PL.48216	PL.48215	ABC	#3/0 ACSR	7.27Y	121.2	0.00	3.85	20.76	7	408	197	90	0.00	0.0	5.308	0.000	0	0	0	3
PD.7181-A	PL.48216	ABC	Closed	7.27Y	121.2	0.00	3.85	20.76	0	408	197	90	0.00	0.0	5.308	0.000	0	0	0	3
PD.7181-B	PD.7181-A	ABC	Closed	7.27Y	121.2	0.00	3.85	20.76	0	408	197	90	0.00	0.0	5.308	0.000	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: Brodhead

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.57861	PD.7181-B	ABC	336 MCM AC	7.27Y	121.1	0.01	3.86	20.76	4	408	197	90	0.01	0.0	5.347	0.039	3	1	1	3
PL.57860	PL.57861	ABC	336 MCM AC	7.27Y	121.1	0.01	3.87	20.64	4	405	196	90	0.02	0.0	5.416	0.069	0	0	0	2
PL.57859	PL.57860	ABC	336 MCM AC	7.27Y	121.1	0.04	3.91	20.64	4	405	196	90	0.07	0.0	5.613	0.197	0	0	0	2
PL.57858	PL.57859	ABC	#4 ACSR	7.26Y	121.1	0.01	3.92	20.64	16	405	196	90	0.03	0.0	5.642	0.029	404	196	1	2
PL.57740	PL.57858	ABC	#4 ACSR	7.26Y	121.1	0.00	3.92	0.03	0	1	0	100	0.00	0.0	5.672	0.030	1	0	1	1
PL.57741	PL.57740	ABC	#4 ACSR	7.26Y	121.1	0.00	3.92	0.00	0	0	0	100	0.00	0.0	5.701	0.030	0	0	0	0
PL.58898	PL.57859	ABC	336 MCM AC	7.27Y	121.1	0.00	3.91	0.00	0	0	0	100	0.00	0.0	5.653	0.040	0	0	0	0
PD.8750-B	PL.58898	ABC	Open	7.27Y	121.1	0.00	3.91	0.00	0	0	0	100	0.00	0.0	5.653	0.040	0	0	0	0
PL.48826	PL.48196	ABC	336 MCM AC	7.27Y	121.2	0.02	3.85	29.48	6	603	223	94	0.05	0.0	5.316	0.070	0	0	0	45
PL.48827	PL.48826	ABC	336 MCM AC	7.27Y	121.1	0.02	3.86	29.48	6	603	222	94	0.05	0.0	5.380	0.064	0	0	0	45
PL.48823	PL.48827	ABC	#2 ACSR	7.27Y	121.1	0.01	3.88	10.61	6	216	83	93	0.02	0.0	5.432	0.053	84	19	1	3
PL.48834	PL.48823	ABC	#2 ACSR	7.27Y	121.1	0.01	3.88	6.74	4	132	64	90	0.01	0.0	5.471	0.039	0	0	0	2
PL.48836	PL.48834	ABC	3/0 AL URD	7.27Y	121.1	0.00	3.88	6.74	3	132	64	90	0.00	0.0	5.472	0.001	0	0	0	2
PD.7485	PL.48836	ABC	60QA	7.27Y	121.1	0.00	3.88	6.74	11	132	64	90	0.00	0.0	5.472	0.001	0	0	0	2
PL.48837	PD.7485	ABC	350 MCM AL	7.27Y	121.1	0.00	3.89	6.74	2	132	64	90	0.00	0.0	5.617	0.145	132	64	2	2
PL.48835	PL.48834	ABC	#2 ACSR	7.27Y	121.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	5.478	0.006	0	0	0	0
PL.48828	PL.48827	ABC	336 MCM AC	7.27Y	121.1	0.01	3.87	18.87	4	387	140	94	0.02	0.0	5.438	0.059	0	0	0	42
PL.48830	PL.48828	ABC	#1/0 ACSR	7.27Y	121.1	0.01	3.88	3.75	2	74	36	90	0.00	0.0	5.538	0.099	0	0	0	2
PD.7573	PL.48830	ABC	60QA	7.27Y	121.1	0.00	3.88	3.75	6	74	36	90	0.00	0.0	5.538	0.099	0	0	0	2
PL.48831	PD.7573	ABC	#1/0 ACSR	7.27Y	121.1	0.00	3.88	3.75	2	74	36	90	0.00	0.0	5.539	0.001	74	36	2	2
PL.48832	PL.48828	ABC	#2 ACSR	7.27Y	121.1	0.00	3.87	2.26	1	44	22	89	0.00	0.0	5.466	0.028	0	0	0	1
PD.7469	PL.48832	ABC	70QA	7.27Y	121.1	0.00	3.87	2.26	0	44	22	89	0.00	0.0	5.466	0.028	0	0	0	1
PL.48833	PD.7469	ABC	#2 ACSR	7.27Y	121.1	0.00	3.87	2.26	1	44	22	89	0.00	0.0	5.467	0.001	44	22	1	1
PL.48829	PL.48828	ABC	336 MCM AC	7.27Y	121.1	0.01	3.88	12.90	2	269	82	96	0.01	0.0	5.495	0.057	0	0	0	39
PL.48217	PL.48829	ABC	336 MCM AC	7.27Y	121.1	0.00	3.88	12.90	2	269	82	96	0.00	0.0	5.496	0.001	0	0	0	39
PD.7553	PL.48217	ABC	70L	7.27Y	121.1	0.00	3.88	12.90	18	269	82	96	0.00	0.0	5.496	0.001	0	0	0	39
PL.48218	PD.7553	ABC	336 MCM AC	7.27Y	121.1	0.00	3.88	12.90	2	269	82	96	0.01	0.0	5.539	0.044	0	0	0	39
PL.57239	PL.48218	ABC	#1/0 ACSR	7.27Y	121.1	0.00	3.88	4.30	2	84	41	90	0.00	0.0	5.581	0.041	84	41	1	1
PL.48219	PL.48218	ABC	336 MCM AC	7.27Y	121.1	0.00	3.88	8.68	2	185	42	98	0.00	0.0	5.576	0.037	0	0	0	38
PL.46911	PL.48219	B	#4 ACSR	7.27Y	121.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	5.588	0.011	0	0	0	0
PL.48220	PL.48219	ABC	336 MCM AC	7.27Y	121.1	0.01	3.90	8.68	2	185	42	98	0.01	0.0	5.799	0.223	0	0	0	38

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Balanced Voltage Drop Report
Source: Brodhead

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.47697	PL.48220	ABC	336 MCM AC	7.26Y	121.1	0.02	3.92	8.07	2	172	39	98	0.02	0.0	6.234	0.435	0	0	0	36
PL.62526	PL.47697	ABC	#2 ACSR	7.26Y	121.1	0.00	3.92	0.51	0	11	2	98	0.00	0.0	6.383	0.149	0	0	0	8
PL.62527	PL.62526	ABC	#2 ACSR	7.26Y	121.1	0.00	3.93	0.51	0	11	2	98	0.00	0.0	6.554	0.171	0	0	0	8
PL.62525	PL.62527	ABC	#2 ACSR	7.26Y	121.1	0.01	3.94	0.51	0	11	2	98	0.00	0.0	7.235	0.681	0	0	0	8
PL.47220	PL.62525	ABC	#2 ACSR	7.26Y	121.1	0.00	3.94	0.41	0	9	2	98	0.00	0.0	7.319	0.084	9	2	5	5
PL.47221	PL.47220	ABC	#2 ACSR	7.26Y	121.1	0.00	3.94	0.00	0	0	0	100	0.00	0.0	7.397	0.078	0	0	0	0
PL.62168	PL.47221	ABC	#2 ACSR	7.26Y	121.1	0.00	3.94	0.00	0	0	0	100	0.00	0.0	7.400	0.003	0	0	0	0
PD.9279-A	PL.62168	ABC	Open	7.26Y	121.1	0.00	3.94	0.00	0	0	0	100	0.00	0.0	7.400	0.003	0	0	0	0
PL.47219	PL.62525	B	6 A (CWC)	7.26Y	121.1	0.00	3.94	0.31	0	2	0	100	0.00	0.0	7.240	0.005	0	0	0	3
PD.7523	PL.47219	B	60QA	7.26Y	121.1	0.00	3.94	0.31	1	2	0	100	0.00	0.0	7.240	0.005	0	0	0	3
PL.48849	PD.7523	B	6 A (CWC)	7.26Y	121.1	0.00	3.94	0.31	0	2	0	100	0.00	0.0	7.397	0.157	0	0	0	3
PL.48850	PL.48849	B	6 A (CWC)	7.26Y	121.1	0.00	3.94	0.31	0	2	0	100	0.00	0.0	7.537	0.139	0	0	0	3
PL.47663	PL.48850	B	6 A (CWC)	7.26Y	121.1	0.00	3.94	0.08	0	1	0	100	0.00	0.0	7.665	0.129	1	0	2	2
PL.48851	PL.48850	B	6 A (CWC)	7.26Y	121.1	0.00	3.94	0.22	0	2	0	100	0.00	0.0	7.701	0.164	0	0	0	1
PL.46732	PL.48851	B	6 A (CWC)	7.26Y	121.1	0.00	3.94	0.22	0	2	0	100	0.00	0.0	7.826	0.126	2	0	1	1
PL.47525	PL.47697	C	6 A (CWC)	7.26Y	121.0	0.07	3.99	22.67	16	161	36	98	0.08	0.1	6.302	0.067	0	0	0	28
PL.47425	PL.47525	C	6 A (CWC)	7.26Y	121.0	0.00	4.00	22.67	16	161	36	98	0.00	0.0	6.305	0.004	0	0	0	28
PD.7554	PL.47425	C	35L	7.26Y	121.0	0.00	4.00	22.67	65	161	36	98	0.00	0.0	6.305	0.004	0	0	0	28
PL.47426	PD.7554	C	6 A (CWC)	7.23Y	120.6	0.43	4.42	22.67	16	161	36	98	0.52	0.3	6.724	0.419	0	0	0	28
PL.47743	PL.47426	C	6 A (CWC)	7.22Y	120.3	0.27	4.69	17.71	13	125	28	98	0.25	0.2	7.059	0.334	0	0	0	23
PL.45987	PL.47743	C	6 A (CWC)	7.22Y	120.3	0.00	4.69	0.39	0	3	1	95	0.00	0.0	7.165	0.107	3	1	1	1
PL.47744	PL.47743	C	6 A (CWC)	7.20Y	120.1	0.25	4.94	17.32	12	122	27	98	0.23	0.2	7.379	0.321	0	0	0	22
PL.57511	PL.47744	C	6 A (CWC)	7.20Y	120.1	0.00	4.94	4.39	3	31	7	98	0.00	0.0	7.384	0.004	0	0	0	4
PD.8510	PL.57511	C	40QA	7.20Y	120.1	0.00	4.94	4.39	11	31	7	98	0.00	0.0	7.384	0.004	0	0	0	4
PL.57512	PD.8510	C	6 A (CWC)	7.20Y	120.1	0.01	4.95	4.39	3	31	7	98	0.00	0.0	7.428	0.044	0	0	0	4
PL.46935	PL.57512	C	6 A (CWC)	7.20Y	120.0	0.01	4.96	1.68	1	12	3	97	0.00	0.0	7.535	0.107	5	1	1	2
PL.46936	PL.46935	C	6 A (CWC)	7.20Y	120.0	0.01	4.96	0.99	1	7	2	96	0.00	0.0	7.862	0.327	7	2	1	1
PL.46937	PL.57512	C	6 A (CWC)	7.20Y	120.0	0.01	4.96	2.72	2	19	4	98	0.00	0.0	7.534	0.107	7	1	1	2
PL.48221	PL.46937	C	6 A (CWC)	7.20Y	120.0	0.01	4.97	1.78	1	13	3	97	0.00	0.0	7.756	0.221	13	3	1	1
PL.57513	PL.47744	C	6 A (CWC)	7.20Y	120.1	0.00	4.94	4.27	3	30	7	97	0.00	0.0	7.383	0.003	0	0	0	4
PD.8511	PL.57513	C	40QA	7.20Y	120.1	0.00	4.94	4.27	11	30	7	97	0.00	0.0	7.383	0.003	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: Brodhead

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.57514	PD.8511	C	6 A (CWC)	7.20Y	120.0	0.02	4.96	4.27	3	30	7	97	0.01	0.0	7.505	0.123	0	0	0	4
PL.47423	PL.57514	C	6 A (CWC)	7.20Y	120.0	0.01	4.97	2.42	2	17	4	97	0.00	0.0	7.576	0.071	0	0	0	1
PL.45988	PL.47423	C	6 A (CWC)	7.20Y	120.0	0.00	4.97	0.00	0	0	0	100	0.00	0.0	7.595	0.019	0	0	0	0
PL.47424	PL.47423	C	6 A (CWC)	7.20Y	120.0	0.01	4.98	2.42	2	17	4	97	0.00	0.0	7.736	0.160	17	4	1	1
PL.46731	PL.57514	C	6 A (CWC)	7.20Y	120.0	0.00	4.96	0.34	0	2	1	89	0.00	0.0	7.559	0.054	2	1	1	1
PL.46806	PL.57514	C	6 A (CWC)	7.20Y	120.0	0.02	4.98	1.50	1	11	2	98	0.00	0.0	7.776	0.271	2	0	1	2
PL.64060	PL.46806	C	#1/0 ACSR	7.20Y	120.0	0.00	4.98	1.19	1	8	2	97	0.00	0.0	7.909	0.133	8	2	1	1
PL.48222	PL.47744	C	6 A (CWC)	7.19Y	119.9	0.15	5.09	8.66	6	61	14	97	0.07	0.1	7.761	0.382	0	0	0	14
PL.48224	PL.48222	C	6 A (CWC)	7.19Y	119.8	0.15	5.23	7.13	5	50	11	98	0.06	0.1	8.212	0.452	0	0	0	12
PL.48225	PL.48224	C	6 A (CWC)	7.18Y	119.7	0.06	5.29	7.13	5	50	11	98	0.02	0.0	8.392	0.180	0	0	0	12
PL.57508	PL.48225	C	6 A (CWC)	7.18Y	119.7	0.00	5.29	1.35	1	10	2	98	0.00	0.0	8.454	0.062	0	0	0	2
PD.8508	PL.57508	C	15T	7.18Y	119.7	0.00	5.29	1.35	0	10	2	98	0.00	0.0	8.454	0.062	0	0	0	2
PL.57509	PD.8508	C	6 A (CWC)	7.18Y	119.7	0.01	5.30	1.35	1	10	2	98	0.00	0.0	8.655	0.201	10	2	2	2
PL.57507	PL.57509	C	6 A (CWC)	7.18Y	119.7	0.00	5.30	0.00	0	0	0	100	0.00	0.0	8.799	0.144	0	0	0	0
PL.58199	PL.48225	C	6 A (CWC)	7.18Y	119.7	0.00	5.29	5.78	4	41	9	98	0.00	0.0	8.395	0.003	0	0	0	10
PD.8679	PL.58199	C	15T	7.18Y	119.7	0.00	5.29	5.78	0	41	9	98	0.00	0.0	8.395	0.003	0	0	0	10
PL.58981	PD.8679	C	6 A (CWC)	7.18Y	119.7	0.04	5.33	5.78	4	41	9	98	0.01	0.0	8.533	0.139	0	0	1	10
PL.58980	PL.58981	C	6 A (CWC)	7.18Y	119.6	0.08	5.41	5.78	4	40	9	98	0.03	0.1	8.842	0.309	0	0	0	9
PL.62492	PL.58980	C	6 A (CWC)	7.18Y	119.6	0.00	5.41	4.67	3	33	7	98	0.00	0.0	8.846	0.003	0	0	0	5
PD.9357	PL.62492	C	15T	7.18Y	119.6	0.00	5.41	4.67	0	33	7	98	0.00	0.0	8.846	0.003	0	0	0	5
PL.65273	PD.9357	C	6 A (CWC)	7.17Y	119.5	0.04	5.45	4.67	3	33	7	98	0.01	0.0	9.049	0.203	0	0	0	5
PL.65274	PL.65273	C	6 A (CWC)	7.17Y	119.5	0.01	5.47	4.67	3	33	7	98	0.00	0.0	9.122	0.074	4	1	1	4
PL.48842	PL.65274	C	6 A (CWC)	7.17Y	119.5	0.01	5.48	1.13	1	8	2	97	0.00	0.0	9.399	0.276	0	0	0	1
PL.47373	PL.48842	C	6 A (CWC)	7.17Y	119.5	0.00	5.48	0.00	0	0	0	100	0.00	0.0	9.723	0.324	0	0	0	0
PL.48843	PL.48842	C	6 A (CWC)	7.17Y	119.5	0.01	5.49	1.13	1	8	2	97	0.00	0.0	9.611	0.212	0	0	0	1
PL.48844	PL.48843	C	6 A (CWC)	7.17Y	119.5	0.03	5.52	1.13	1	8	2	97	0.00	0.0	10.239	0.628	0	0	0	1
PL.48845	PL.48844	C	6 A (CWC)	7.17Y	119.5	0.00	5.52	1.13	1	8	2	97	0.00	0.0	10.284	0.045	0	0	0	1
PL.47699	PL.48845	C	6 A (CWC)	7.17Y	119.5	0.00	5.52	0.00	0	0	0	100	0.00	0.0	10.445	0.161	0	0	0	0
PL.48846	PL.48845	C	6 A (CWC)	7.17Y	119.5	0.01	5.53	1.13	1	8	2	97	0.00	0.0	10.407	0.123	0	0	0	1
PL.48847	PL.48846	C	6 A (CWC)	7.17Y	119.5	0.00	5.54	1.13	1	8	2	97	0.00	0.0	10.494	0.087	0	0	0	1
PL.47700	PL.48847	C	6 A (CWC)	7.17Y	119.5	0.00	5.54	0.00	0	0	0	100	0.00	0.0	10.568	0.074	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: Brodhead

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.48848	PL.48847	C	6 A (CWC)	7.17Y	119.5	0.00	5.54	1.13	1	8	2	97	0.00	0.0	10.545	0.050	8	2	1	1
PL.47372	PL.65274	C	6 A (CWC)	7.17Y	119.5	0.01	5.47	2.98	2	21	5	97	0.00	0.0	9.211	0.089	21	5	2	2
PL.65272	PL.65273	C	#1/0 ACSR	7.17Y	119.5	0.00	5.45	0.00	0	0	0	100	0.00	0.0	9.072	0.024	0	0	0	1
PL.65275	PL.65272	C	#1/0 ACSR	7.17Y	119.5	0.00	5.45	0.00	0	0	0	100	0.00	0.0	9.129	0.057	0	0	1	1
PL.48227	PL.58980	C	6 A (CWC)	7.18Y	119.6	0.01	5.41	1.11	1	8	2	97	0.00	0.0	8.964	0.121	0	0	1	4
PL.48175	PL.48227	C	6 A (CWC)	7.18Y	119.6	0.00	5.41	0.00	0	0	0	100	0.00	0.0	8.964	0.001	0	0	0	0
PL.48176	PL.48175	C	6 A (CWC)	7.18Y	119.6	0.00	5.41	0.00	0	0	0	100	0.00	0.0	9.113	0.148	0	0	0	0
PL.48228	PL.48227	C	6 A (CWC)	7.18Y	119.6	0.00	5.41	1.11	1	8	2	97	0.00	0.0	8.964	0.000	0	0	0	3
PL.48226	PL.48228	C	6 A (CWC)	7.17Y	119.6	0.00	5.42	1.11	1	8	2	97	0.00	0.0	9.089	0.125	4	1	1	3
PL.48229	PL.48226	C	6 A (CWC)	7.17Y	119.6	0.00	5.42	0.47	0	3	1	95	0.00	0.0	9.129	0.040	0	0	0	2
PL.48230	PL.48229	C	6 A (CWC)	7.17Y	119.6	0.00	5.42	0.47	0	3	1	95	0.00	0.0	9.183	0.054	3	1	1	2
PL.48231	PL.48230	C	6 A (CWC)	7.17Y	119.6	0.00	5.42	0.07	0	0	0	100	0.00	0.0	9.208	0.025	0	0	1	1
PL.47717	PL.48224	C	6 A (CWC)	7.19Y	119.8	0.00	5.23	0.00	0	0	0	100	0.00	0.0	8.334	0.122	0	0	0	0
PL.57502	PL.48222	C	#4 ACSR	7.19Y	119.9	0.01	5.09	1.52	1	11	2	98	0.00	0.0	7.836	0.075	0	0	0	2
PD.8506	PL.57502	C	40QA	7.19Y	119.9	0.00	5.09	1.52	4	11	2	98	0.00	0.0	7.836	0.075	0	0	0	2
PL.57503	PD.8506	C	#4 ACSR	7.19Y	119.9	0.00	5.09	1.52	1	11	2	98	0.00	0.0	7.840	0.003	10	2	1	2
PL.48223	PL.57503	C	#4 ACSR	7.19Y	119.9	0.00	5.09	0.04	0	0	0	100	0.00	0.0	7.942	0.102	0	0	1	1
PL.56159	PL.47426	C	#4 ACSR	7.23Y	120.6	0.00	4.42	4.96	4	35	8	97	0.00	0.0	6.726	0.002	0	0	0	5
PD.8295	PL.56159	C	50QA	7.23Y	120.6	0.00	4.42	4.96	10	35	8	97	0.00	0.0	6.726	0.002	0	0	0	5
PL.57504	PD.8295	C	#4 ACSR	7.23Y	120.5	0.05	4.47	4.96	4	35	8	97	0.01	0.0	6.952	0.226	0	0	1	5
PL.57505	PL.57504	C	#4 ACSR	7.23Y	120.5	0.00	4.47	4.93	4	35	8	97	0.00	0.0	6.956	0.004	0	0	0	4
PD.8507	PL.57505	C	40QA	7.23Y	120.5	0.00	4.47	4.93	12	35	8	97	0.00	0.0	6.956	0.004	0	0	0	4
PL.57506	PD.8507	C	#4 ACSR	7.23Y	120.5	0.04	4.51	4.93	4	35	8	97	0.01	0.0	7.127	0.172	0	0	0	4
PL.47455	PL.57506	C	#4 ACSR	7.23Y	120.5	0.00	4.51	4.93	4	35	8	97	0.00	0.0	7.128	0.001	11	2	1	4
PL.47456	PL.47455	C	#4 ACSR	7.23Y	120.5	0.01	4.52	3.37	3	24	5	98	0.00	0.0	7.173	0.045	0	0	0	3
PL.47564	PL.47456	C	#4 ACSR	7.23Y	120.5	0.01	4.53	1.52	1	11	2	98	0.00	0.0	7.340	0.167	3	1	1	2
PL.47563	PL.47564	C	#4 ACSR	7.23Y	120.5	0.00	4.53	1.03	1	7	2	96	0.00	0.0	7.490	0.150	7	2	1	1
PL.47524	PL.47456	C	#4 ACSR	7.23Y	120.5	0.01	4.52	1.85	1	13	3	97	0.00	0.0	7.323	0.150	13	3	1	1
PL.47274	PL.48220	A	6 A (CWC)	7.27Y	121.1	0.00	3.90	1.83	1	13	3	97	0.00	0.0	5.801	0.001	0	0	0	2
PD.7470	PL.47274	A	60QA	7.27Y	121.1	0.00	3.90	1.83	3	13	3	97	0.00	0.0	5.801	0.001	0	0	0	2
PL.47275	PD.7470	A	6 A (CWC)	7.27Y	121.1	0.01	3.91	1.83	1	13	3	97	0.00	0.0	5.964	0.164	0	0	0	2

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Balanced Voltage Drop Report
Source: Brodhead

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.47280	PL.47275	A	6 A (CWC)	7.27Y	121.1	0.00	3.91	1.16	1	8	2	97	0.00	0.0	6.007	0.042	8	2	1	1
PL.47281	PL.47280	A	6 A (CWC)	7.27Y	121.1	0.00	3.91	0.00	0	0	0	100	0.00	0.0	6.048	0.042	0	0	0	0
PL.46905	PL.47281	A	6 A (CWC)	7.27Y	121.1	0.00	3.91	0.00	0	0	0	100	0.00	0.0	6.049	0.001	0	0	0	0
PL.48253	PL.46905	A	6 A (CWC)	7.27Y	121.1	0.00	3.91	0.00	0	0	0	100	0.00	0.0	6.099	0.050	0	0	0	0
PL.47768	PL.47275	A	6 A (CWC)	7.27Y	121.1	0.00	3.91	0.67	0	5	1	98	0.00	0.0	5.988	0.024	5	1	1	1
PL.48197	PL.48821	A	#2 ACSR	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	5.036	0.001	0	0	0	1
PD.7468	PL.48197	A	60QA	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	5.036	0.001	0	0	0	1
PL.48198	PD.7468	A	#2 ACSR	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	5.131	0.094	0	0	1	1
CP.78	PL.51559	ABC	Cap (300)	7.30Y	121.7	0.00	3.32	0.00	0	0	0	100	0.00	0.0	4.511	0.094	0	0	0	0
PL.57919	PL.57917	C	#1/0 ACSR	7.30Y	121.7	0.00	3.29	1.05	0	8	2	97	0.00	0.0	4.559	0.093	8	2	1	1
PL.47691	PL.57920	A	#4 ACSR	7.31Y	121.9	0.00	3.14	0.00	0	0	0	100	0.00	0.0	4.336	0.084	0	0	0	0
PL.57921	PL.58985	C	#1/0 ACSR	7.31Y	121.9	0.00	3.12	1.29	1	9	2	98	0.00	0.0	4.545	0.323	9	2	1	1
PL.48232	PL.47818	C	#4 ACSR	7.34Y	122.3	0.00	2.72	1.80	1	13	3	97	0.00	0.0	3.680	0.001	0	0	0	2
PD.7466	PL.48232	C	25T	7.34Y	122.3	0.00	2.72	1.80	0	13	3	97	0.00	0.0	3.680	0.001	0	0	0	2
PL.48233	PD.7466	C	#4 ACSR	7.34Y	122.3	0.01	2.73	1.80	1	13	3	97	0.00	0.0	3.776	0.096	7	1	1	2
PL.48234	PL.48233	C	#4 ACSR	7.34Y	122.3	0.00	2.73	0.88	1	6	1	99	0.00	0.0	3.839	0.063	6	1	1	1
PL.48241	PL.48776	C	6 A (CWC)	7.34Y	122.3	0.00	2.66	0.09	0	1	0	100	0.00	0.0	3.595	0.001	0	0	0	1
PD.7572	PL.48241	C	60QA	7.34Y	122.3	0.00	2.66	0.09	0	1	0	100	0.00	0.0	3.595	0.001	0	0	0	1
PL.61965	PD.7572	C	6 A (CWC)	7.34Y	122.3	0.00	2.66	0.09	0	1	0	100	0.00	0.0	3.671	0.076	1	0	1	1
PL.48239	PL.48776	A	#4 ACSR	7.34Y	122.3	0.00	2.66	3.06	2	22	5	98	0.00	0.0	3.595	0.001	0	0	0	5
PD.7465	PL.48239	A	25T	7.34Y	122.3	0.00	2.66	3.06	0	22	5	98	0.00	0.0	3.595	0.001	0	0	0	5
PL.48240	PD.7465	A	#4 ACSR	7.34Y	122.3	0.02	2.68	3.06	2	22	5	98	0.00	0.0	3.791	0.196	6	1	2	5
PL.48235	PL.48240	A	#4 ACSR	7.34Y	122.3	0.00	2.69	1.14	1	8	2	97	0.00	0.0	3.852	0.061	8	2	1	1
PL.48236	PL.48240	A	6 A (CWC)	7.34Y	122.3	0.00	2.69	1.11	1	8	2	97	0.00	0.0	3.831	0.040	0	0	0	2
PL.48237	PL.48236	A	6 A (CWC)	7.34Y	122.3	0.00	2.69	1.11	1	8	2	97	0.00	0.0	3.984	0.153	6	1	1	2
PL.48238	PL.48237	A	6 A (CWC)	7.34Y	122.3	0.00	2.69	0.24	0	2	0	100	0.00	0.0	4.020	0.036	2	0	1	1
PL.48507	PL.52097	C	#2 ACSR	7.38Y	123.0	0.00	1.97	1.12	1	8	2	97	0.00	0.0	2.525	0.001	0	0	0	1
PD.7343	PL.48507	C	20T	7.38Y	123.0	0.00	1.97	1.12	0	8	2	97	0.00	0.0	2.525	0.001	0	0	0	1
PL.48508	PD.7343	C	#2 ACSR	7.38Y	123.0	0.00	1.97	1.12	1	8	2	97	0.00	0.0	2.574	0.050	8	2	1	1
PL.52089	PL.58640	A	#4 ACSR	7.43Y	123.8	0.00	1.20	0.46	0	3	1	95	0.00	0.0	1.474	0.004	0	0	0	3
PD.7341	PL.52089	A	75QA	7.43Y	123.8	0.00	1.20	0.46	1	3	1	95	0.00	0.0	1.474	0.004	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: Brodhead

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.47956	PD.7341	A	#4 ACSR	7.43Y	123.8	0.00	1.20	0.46	0	3	1	95	0.00	0.0	1.666	0.192	3	1	2	3
PL.47957	PL.47956	A	#4 ACSR	7.43Y	123.8	0.00	1.20	0.05	0	0	0	100	0.00	0.0	1.895	0.229	0	0	1	1
PL.58609	PL.58611	A	#4 ACSR	7.45Y	124.2	0.00	0.77	1.83	1	13	3	97	0.00	0.0	0.942	0.002	0	0	0	2
PD.8625	PL.58609	A	15T	7.45Y	124.2	0.00	0.77	1.83	0	13	3	97	0.00	0.0	0.942	0.002	0	0	0	2
PL.58599	PD.8625	A	#4 ACSR	7.45Y	124.2	0.00	0.78	1.83	1	13	3	97	0.00	0.0	1.042	0.100	13	3	1	2
PL.58600	PL.58599	A	#4 ACSR	7.45Y	124.2	0.00	0.78	0.00	0	0	0	100	0.00	0.0	1.085	0.043	0	0	1	1
PL.58888	PL.58891	ABC	336 MCM AC	7.46Y	124.4	0.00	0.64	0.00	0	0	0	100	0.00	0.0	0.775	0.002	0	0	0	0
PD.8623-A	PL.58888	ABC	Open	7.46Y	124.4	0.00	0.64	0.00	0	0	0	100	0.00	0.0	0.775	0.002	0	0	0	0
PL.58603	PL.58853	B	#1/0 ACSR	7.48Y	124.7	0.00	0.31	0.43	0	3	1	95	0.00	0.0	0.426	0.054	3	1	1	1
PL.58388	PL.58603	B	#1/0 ACSR	7.48Y	124.7	0.00	0.31	0.00	0	0	0	100	0.00	0.0	0.488	0.061	0	0	0	0
PL.58389	Brodhead	ABC	#3/0 ACSR	7.50Y	125.0	0.02	0.02	237.25	79	5014	1832	94	0.60	0.0	0.006	0.006	0	0	0	609
PL.58387	PL.58389	ABC	#3/0 ACSR	7.50Y	125.0	0.02	0.04	237.25	79	5013	1831	94	0.47	0.0	0.011	0.005	0	0	0	609
---------- Feeder No. 1 (BrindleRidge F1) Beginning with Device PD.8712 ----------																				
PD.8712	PL.58387	ABC	400VWE	7.50Y	125.0	0.00	0.04	237.25	0	5013	1831	94	0.00	0.0	0.011	0.005	0	0	0	609
PL.58386	PD.8712	ABC	336 MCM AC	7.49Y	124.8	0.14	0.18	237.25	46	5013	1831	94	3.49	0.1	0.085	0.074	5	1	1	609
PL.58385	PL.58386	ABC	336 MCM AC	7.48Y	124.7	0.08	0.26	234.72	45	4953	1810	94	2.03	0.0	0.129	0.044	5	1	1	600
PL.56194	PL.58385	ABC	336 MCM AC	7.47Y	124.6	0.17	0.43	234.51	45	4947	1804	94	4.15	0.1	0.219	0.090	7	2	2	599
PL.48177	PL.56194	ABC	336 MCM AC	7.47Y	124.4	0.13	0.57	234.19	45	4935	1793	94	3.24	0.1	0.289	0.070	1	0	1	597
PL.48178	PL.48177	ABC	336 MCM AC	7.46Y	124.3	0.18	0.75	234.14	45	4931	1785	94	4.41	0.1	0.384	0.096	5	1	1	596
PL.49465	PL.48178	ABC	336 MCM AC	7.45Y	124.2	0.08	0.83	233.90	45	4921	1774	94	1.99	0.0	0.427	0.043	0	0	0	595
PL.49466	PL.49465	ABC	336 MCM AC	7.45Y	124.2	0.00	0.83	233.90	45	4919	1769	94	0.04	0.0	0.428	0.001	18	4	2	595
PL.48258	PL.49466	ABC	336 MCM AC	7.44Y	124.0	0.16	0.99	233.10	45	4902	1765	94	3.94	0.1	0.515	0.086	8	2	1	593
PL.48259	PL.48258	ABC	336 MCM AC	7.44Y	123.9	0.07	1.07	232.45	45	4884	1753	94	1.81	0.0	0.554	0.040	16	4	2	591
PL.46932	PL.48259	ABC	336 MCM AC	7.43Y	123.8	0.09	1.16	231.72	45	4866	1745	94	2.09	0.0	0.601	0.046	13	3	1	589
PL.47460	PL.46932	ABC	336 MCM AC	7.42Y	123.7	0.15	1.31	231.11	45	4850	1737	94	3.59	0.1	0.681	0.080	10	2	1	588
PL.47461	PL.47460	ABC	336 MCM AC	7.42Y	123.6	0.07	1.37	230.63	44	4836	1726	94	1.57	0.0	0.716	0.035	0	0	0	587
PL.47462	PL.47461	C	#2 ACSR	7.42Y	123.6	0.00	1.37	1.44	1	10	2	98	0.00	0.0	0.721	0.005	0	0	0	1
PD.7320	PL.47462	C	75QA	7.42Y	123.6	0.00	1.37	1.44	2	10	2	98	0.00	0.0	0.721	0.005	0	0	0	1
PL.48265	PD.7320	C	#2 ACSR	7.42Y	123.6	0.00	1.37	1.44	1	10	2	98	0.00	0.0	0.805	0.084	10	2	1	1

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Balanced Voltage Drop Report
Source: Brodhead

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.48266	PL.47461	ABC	336 MCM AC	7.37Y	122.9	0.73	2.10	230.16	44	4824	1720	94	17.49	0.4	1.108	0.392	0	0	0	586
PL.48267	PL.48266	ABC	336 MCM AC	7.37Y	122.8	0.11	2.21	228.64	44	4774	1672	94	2.68	0.1	1.168	0.061	0	0	0	582
PL.48268	PL.48267	A	#2 ACSR	7.37Y	122.8	0.00	2.21	2.51	1	18	4	98	0.00	0.0	1.178	0.010	0	0	0	2
PD.7416	PL.48268	A	75QA	7.37Y	122.8	0.00	2.21	2.51	3	18	4	98	0.00	0.0	1.178	0.010	0	0	0	2
PL.48269	PD.7416	A	#2 ACSR	7.37Y	122.8	0.01	2.21	2.51	1	18	4	98	0.00	0.0	1.314	0.136	18	4	2	2
PL.48270	PL.48267	ABC	336 MCM AC	7.36Y	122.7	0.07	2.27	227.81	44	4753	1662	94	1.56	0.0	1.204	0.036	0	0	0	580
PL.48271	PL.48270	ABC	336 MCM AC	7.36Y	122.6	0.09	2.37	227.01	44	4734	1654	94	2.19	0.0	1.255	0.050	0	0	0	578
PL.48277	PL.48271	A	#2 ACSR	7.36Y	122.6	0.00	2.37	0.94	1	7	2	96	0.00	0.0	1.260	0.006	0	0	0	1
PD.7589	PL.48277	A	75QA	7.36Y	122.6	0.00	2.37	0.94	1	7	2	96	0.00	0.0	1.260	0.006	0	0	0	1
PL.48278	PD.7589	A	#2 ACSR	7.36Y	122.6	0.00	2.37	0.94	1	7	2	96	0.00	0.0	1.282	0.022	0	0	0	1
PL.48275	PL.48278	A	#2 ACSR	7.36Y	122.6	0.00	2.37	0.94	1	7	2	96	0.00	0.0	1.283	0.000	7	2	1	1
PL.48276	PL.48275	A	#2 ACSR	7.36Y	122.6	0.00	2.37	0.00	0	0	0	100	0.00	0.0	1.394	0.112	0	0	0	0
PL.48279	PL.48271	ABC	336 MCM AC	7.35Y	122.5	0.10	2.47	226.43	44	4719	1646	94	2.39	0.1	1.310	0.055	0	0	0	576
PL.48280	PL.48279	ABC	336 MCM AC	7.35Y	122.4	0.11	2.58	226.43	44	4717	1641	94	2.65	0.1	1.371	0.062	13	3	1	576
PL.47353	PL.48280	ABC	336 MCM AC	7.34Y	122.3	0.15	2.73	225.81	44	4701	1632	94	3.62	0.1	1.456	0.084	0	0	0	575
PL.47355	PL.47353	C	6 A (CWC)	7.34Y	122.3	0.00	2.73	0.44	0	3	1	95	0.00	0.0	1.465	0.009	0	0	0	2
PD.7405	PL.47355	C	75QA	7.34Y	122.3	0.00	2.73	0.44	1	3	1	95	0.00	0.0	1.465	0.009	0	0	0	2
PL.47356	PD.7405	C	6 A (CWC)	7.34Y	122.3	0.00	2.73	0.44	0	3	1	95	0.00	0.0	1.683	0.218	3	1	2	2
PL.47354	PL.47353	ABC	336 MCM AC	7.31Y	121.9	0.40	3.13	225.67	43	4694	1623	95	9.52	0.2	1.678	0.222	0	0	0	573
PL.57498	PL.47354	C	6 A (CWC)	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	1.686	0.009	0	0	0	0
PD.8504	PL.57498	C	25T	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	1.686	0.009	0	0	0	0
PL.65280	PD.8504	C	6 A (CWC)	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	1.737	0.051	0	0	0	0
PL.65278	PL.47354	ABC	336 MCM AC	7.31Y	121.8	0.11	3.23	225.67	43	4685	1600	95	2.51	0.1	1.736	0.059	0	0	0	573
PL.65279	PL.65278	ABC	336 MCM AC	7.30Y	121.7	0.04	3.27	222.88	43	4622	1581	95	0.98	0.0	1.760	0.023	9	2	1	562
PL.47585	PL.65279	ABC	336 MCM AC	7.30Y	121.6	0.10	3.37	222.45	43	4612	1577	95	2.30	0.0	1.815	0.055	0	0	0	561
PL.47592	PL.47585	ABC	336 MCM AC	7.29Y	121.4	0.19	3.56	220.04	42	4558	1560	95	4.39	0.1	1.922	0.108	0	0	0	555
PL.46929	PL.47592	ABC	336 MCM AC	7.24Y	120.7	0.76	4.32	220.04	42	4553	1550	95	17.68	0.4	2.357	0.435	15	3	2	555
PL.47943	PL.46929	A	#4 ACSR	7.24Y	120.7	0.00	4.32	0.00	0	0	0	100	0.00	0.0	2.367	0.010	0	0	0	0
PD.7361	PL.47943	A	75QA	7.24Y	120.7	0.00	4.32	0.00	0	0	0	100	0.00	0.0	2.367	0.010	0	0	0	0
PL.47327	PD.7361	A	#4 ACSR	7.24Y	120.7	0.00	4.32	0.00	0	0	0	100	0.00	0.0	2.418	0.051	0	0	0	0
PL.47942	PL.46929	ABC	336 MCM AC	7.23Y	120.5	0.14	4.46	219.34	42	4521	1505	95	3.28	0.1	2.438	0.081	2	0	2	553

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Balanced Voltage Drop Report
Source: Brodhead

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.47330	PL.47942	ABC	336 MCM AC	7.23Y	120.5	0.06	4.52	176.72	34	3611	1289	94	1.12	0.0	2.480	0.043	0	0	0	405
PL.47331	PL.47330	ABC	336 MCM AC	7.22Y	120.4	0.11	4.63	176.72	34	3610	1286	94	2.03	0.1	2.558	0.077	9	2	1	405
PL.47332	PL.47331	ABC	336 MCM AC	7.21Y	120.1	0.25	4.88	176.30	34	3599	1280	94	4.63	0.1	2.734	0.177	0	0	0	404
PL.47337	PL.47332	ABC	336 MCM AC	7.21Y	120.1	0.01	4.88	176.30	34	3595	1269	94	0.10	0.0	2.738	0.004	0	0	0	404
PD.7556	PL.47337	ABC	300VWE	7.21Y	120.1	0.00	4.88	176.30	0	3594	1269	94	0.00	0.0	2.738	0.004	0	0	0	404
PL.47338	PD.7556	ABC	336 MCM AC	7.20Y	120.1	0.06	4.95	176.30	34	3594	1269	94	1.18	0.0	2.783	0.045	0	0	0	404
PL.58542	PL.47338	A	6 A (CWC)	7.20Y	120.1	0.00	4.95	2.48	2	17	4	97	0.00	0.0	2.786	0.002	0	0	0	2
PD.8610	PL.58542	A	25T	7.20Y	120.1	0.00	4.95	2.48	0	17	4	97	0.00	0.0	2.786	0.002	0	0	0	2
PL.58543	PD.8610	A	6 A (CWC)	7.20Y	120.0	0.01	4.96	2.48	2	17	4	97	0.00	0.0	2.954	0.168	17	4	2	2
PL.47861	PL.47338	ABC	336 MCM AC	7.18Y	119.7	0.30	5.25	174.51	34	3555	1257	94	5.52	0.2	2.998	0.215	0	0	0	397
PL.47862	PL.47861	ABC	336 MCM AC	7.18Y	119.6	0.12	5.37	174.51	34	3550	1244	94	2.15	0.1	3.082	0.084	0	0	0	397
PL.48669	PL.47862	A	6 A (CWC)	7.18Y	119.6	0.00	5.37	0.13	0	1	0	100	0.00	0.0	3.086	0.004	0	0	0	1
PD.7445	PL.48669	A	60QA	7.18Y	119.6	0.00	5.37	0.13	0	1	0	100	0.00	0.0	3.086	0.004	0	0	0	1
PL.47466	PD.7445	A	6 A (CWC)	7.18Y	119.6	0.00	5.37	0.13	0	1	0	100	0.00	0.0	3.362	0.276	0	0	0	1
PL.47467	PL.47466	A	6 A (CWC)	7.18Y	119.6	0.00	5.37	0.13	0	1	0	100	0.00	0.0	3.424	0.061	1	0	1	1
PL.47468	PL.47467	A	6 A (CWC)	7.18Y	119.6	0.00	5.37	0.00	0	0	0	100	0.00	0.0	3.546	0.122	0	0	0	0
PL.47465	PL.47862	ABC	336 MCM AC	7.17Y	119.5	0.11	5.48	174.47	34	3547	1239	94	1.96	0.1	3.159	0.077	0	0	0	396
PL.47469	PL.47465	ABC	336 MCM AC	7.15Y	119.2	0.29	5.76	174.47	34	3545	1235	94	5.24	0.1	3.363	0.204	0	0	0	396
PL.47470	PL.47469	ABC	336 MCM AC	7.14Y	119.1	0.17	5.93	174.47	34	3539	1222	95	3.19	0.1	3.488	0.124	0	0	0	396
PL.47471	PL.47470	ABC	336 MCM AC	7.14Y	119.1	0.00	5.94	174.47	34	3536	1215	95	0.08	0.0	3.491	0.003	0	0	0	396
RG.51	PL.47471	ABC	250kva	7.47Y	124.5	-5.45	0.49	174.47	53	3536	1215	95	percent Boost= 4.38		Tap= 7.0					396
PL.47472	RG.51	ABC	336 MCM AC	7.47Y	124.4	0.08	0.57	166.84	32	3536	1215	95	1.41	0.0	3.551	0.060	0	0	0	396
PL.47473	PL.47472	A	6 A (CWC)	7.47Y	124.4	0.00	0.57	3.97	3	29	6	98	0.00	0.0	3.555	0.005	0	0	0	5
PD.7527	PL.47473	A	60QA	7.47Y	124.4	0.00	0.57	3.97	7	29	6	98	0.00	0.0	3.555	0.005	0	0	0	5
PL.47474	PD.7527	A	6 A (CWC)	7.47Y	124.4	0.01	0.58	3.97	3	29	6	98	0.00	0.0	3.610	0.055	9	2	1	5
PL.47475	PL.47474	A	6 A (CWC)	7.46Y	124.4	0.01	0.59	2.70	2	20	4	98	0.00	0.0	3.774	0.163	14	3	2	4
PL.47476	PL.47475	A	6 A (CWC)	7.46Y	124.4	0.00	0.60	0.79	1	6	1	99	0.00	0.0	3.908	0.134	6	1	1	1
PL.47417	PL.47475	A	6 A (CWC)	7.46Y	124.4	0.00	0.59	0.01	0	0	0	100	0.00	0.0	3.873	0.099	0	0	1	1
PL.47368	PL.47474	A	6 A (CWC)	7.47Y	124.4	0.00	0.58	0.00	0	0	0	100	0.00	0.0	3.671	0.061	0	0	0	0
PL.47477	PL.47472	ABC	336 MCM AC	7.45Y	124.2	0.24	0.81	165.52	32	3506	1205	95	4.17	0.1	3.732	0.181	0	0	0	391
PL.48672	PL.47477	C	6 A (CWC)	7.45Y	124.2	0.00	0.81	0.60	0	4	1	97	0.00	0.0	3.736	0.004	0	0	0	4

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Balanced Voltage Drop Report
Source: Brodhead

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.7489	PL.48672	C	60QA	7.45Y	124.2	0.00	0.81	0.60	1	4	1	97	0.00	0.0	3.736	0.004	0	0	0	4
PL.48673	PD.7489	C	6 A (CWC)	7.45Y	124.2	0.00	0.81	0.60	0	4	1	97	0.00	0.0	3.761	0.024	1	0	1	4
PL.48674	PL.48673	C	6 A (CWC)	7.45Y	124.2	0.00	0.81	0.44	0	3	1	95	0.00	0.0	3.835	0.074	2	0	1	3
PL.48670	PL.48674	C	6 A (CWC)	7.45Y	124.2	0.00	0.81	0.14	0	1	0	100	0.00	0.0	3.958	0.123	1	0	1	2
PL.48671	PL.48670	C	6 A (CWC)	7.45Y	124.2	0.00	0.81	0.05	0	0	0	100	0.00	0.0	4.086	0.128	0	0	1	1
PL.48675	PL.47477	ABC	336 MCM AC	7.44Y	124.0	0.18	0.99	165.32	32	3497	1194	95	3.10	0.1	3.866	0.135	0	0	0	387
PL.48679	PL.48675	ABC	336 MCM AC	7.41Y	123.5	0.47	1.46	165.32	32	3494	1187	95	8.28	0.2	4.226	0.360	6	1	2	387
PL.48680	PL.48679	ABC	336 MCM AC	7.40Y	123.3	0.22	1.68	165.06	32	3480	1167	95	3.94	0.1	4.398	0.172	0	0	0	385
PL.48703	PL.48680	ABC	336 MCM AC	7.39Y	123.2	0.16	1.84	158.56	31	3335	1126	95	2.68	0.1	4.525	0.127	0	0	1	358
PL.48704	PL.48703	ABC	336 MCM AC	7.36Y	122.7	0.47	2.31	158.56	31	3332	1120	95	7.91	0.2	4.898	0.373	0	0	0	357
PL.47854	PL.48704	ABC	336 MCM AC	7.36Y	122.6	0.04	2.35	86.70	17	1848	501	97	0.44	0.0	4.969	0.070	13	3	1	264
PL.47856	PL.47854	C	#4 ACSR	7.36Y	122.6	0.00	2.35	0.00	0	0	0	100	0.00	0.0	4.975	0.006	0	0	0	0
PD.7451	PL.47856	C	60QA	7.36Y	122.6	0.00	2.35	0.00	0	0	0	100	0.00	0.0	4.975	0.006	0	0	0	0
PL.47857	PD.7451	C	#4 ACSR	7.36Y	122.6	0.00	2.35	0.00	0	0	0	100	0.00	0.0	5.444	0.469	0	0	0	0
PL.47855	PL.47854	ABC	336 MCM AC	7.36Y	122.6	0.03	2.38	86.10	17	1835	498	97	0.29	0.0	5.015	0.047	0	0	0	263
PL.47850	PL.47855	A	#2 ACSR	7.36Y	122.6	0.00	2.38	0.00	0	0	0	100	0.00	0.0	5.020	0.005	0	0	0	1
PD.7382	PL.47850	A	40QA	7.36Y	122.6	0.00	2.38	0.00	0	0	0	100	0.00	0.0	5.020	0.005	0	0	0	1
PL.47851	PD.7382	A	#2 ACSR	7.36Y	122.6	0.00	2.38	0.00	0	0	0	100	0.00	0.0	5.074	0.054	0	0	1	1
PL.47262	PL.47855	ABC	336 MCM AC	7.35Y	122.6	0.05	2.43	85.44	16	1820	494	97	0.48	0.0	5.094	0.079	0	0	0	260
PL.47260	PL.47262	ABC	336 MCM AC	7.35Y	122.6	0.00	2.44	85.44	16	1819	493	97	0.02	0.0	5.098	0.004	0	0	0	260
PD.7608	PL.47260	ABC	140L	7.35Y	122.6	0.00	2.44	85.44	61	1819	493	97	0.00	0.0	5.098	0.004	0	0	0	260
PL.47261	PD.7608	ABC	336 MCM AC	7.35Y	122.5	0.07	2.51	85.44	16	1819	493	97	0.70	0.0	5.213	0.115	7	2	1	260
PL.47259	PL.47261	ABC	336 MCM AC	7.35Y	122.5	0.03	2.53	85.12	16	1812	489	97	0.26	0.0	5.256	0.043	30	7	2	259
PL.47258	PL.47259	ABC	336 MCM AC	7.35Y	122.4	0.05	2.58	83.72	16	1781	482	97	0.47	0.0	5.335	0.080	0	0	0	257
PL.47255	PL.47258	ABC	336 MCM AC	7.34Y	122.3	0.08	2.66	83.33	16	1773	479	97	0.75	0.0	5.463	0.128	10	2	2	256
PL.47254	PL.47255	ABC	336 MCM AC	7.34Y	122.3	0.03	2.69	82.84	16	1761	475	97	0.28	0.0	5.512	0.048	11	2	1	254
PL.47253	PL.47254	ABC	336 MCM AC	7.34Y	122.3	0.04	2.73	82.33	16	1750	472	97	0.40	0.0	5.582	0.070	12	3	1	253
PL.48375	PL.47253	C	#4 ACSR	7.34Y	122.3	0.00	2.73	0.00	0	0	0	100	0.00	0.0	5.589	0.007	0	0	0	0
PD.7453	PL.48375	C	50QA	7.34Y	122.3	0.00	2.73	0.00	0	0	0	100	0.00	0.0	5.589	0.007	0	0	0	0
PL.48376	PD.7453	C	#4 ACSR	7.34Y	122.3	0.00	2.73	0.00	0	0	0	100	0.00	0.0	5.682	0.094	0	0	0	0
PL.48374	PL.47253	ABC	336 MCM AC	7.33Y	122.2	0.05	2.78	81.78	16	1738	468	97	0.45	0.0	5.662	0.081	0	0	0	252

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: Brodhead

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.48075	PL.48374	C	#4 ACSR	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	5.669	0.007	0	0	0	0
PD.7384	PL.48075	C	50QA	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	5.669	0.007	0	0	0	0
PL.48373	PD.7384	C	#4 ACSR	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	5.705	0.036	0	0	0	0
PL.48074	PL.48374	ABC	336 MCM AC	7.33Y	122.2	0.03	2.81	81.78	16	1737	467	97	0.31	0.0	5.717	0.055	0	0	0	252
PL.48073	PL.48074	ABC	336 MCM AC	7.33Y	122.2	0.01	2.83	81.78	16	1737	467	97	0.11	0.0	5.737	0.020	0	0	0	252
PL.48070	PL.48073	ABC	336 MCM AC	7.33Y	122.1	0.05	2.88	78.77	15	1676	438	97	0.50	0.0	5.832	0.095	0	0	0	249
PL.48068	PL.48070	ABC	336 MCM AC	7.33Y	122.1	0.00	2.88	78.77	15	1676	436	97	0.00	0.0	5.832	0.001	20	4	3	249
PL.48069	PL.48068	ABC	336 MCM AC	7.32Y	122.1	0.06	2.94	77.84	15	1656	432	97	0.54	0.0	5.939	0.107	13	3	2	246
PL.48066	PL.48069	ABC	336 MCM AC	7.32Y	122.0	0.06	3.00	77.26	15	1643	428	97	0.55	0.0	6.048	0.109	0	0	0	244
PL.48580	PL.48066	ABC	336 MCM AC	7.32Y	121.9	0.05	3.05	76.05	15	1616	421	97	0.44	0.0	6.138	0.089	0	0	0	241
PL.47348	PL.48580	ABC	336 MCM AC	7.31Y	121.9	0.04	3.09	75.02	14	1593	415	97	0.36	0.0	6.213	0.075	0	0	0	238
PL.48578	PL.47348	A	#4 ACSR	7.31Y	121.9	0.00	3.09	0.93	1	7	1	99	0.00	0.0	6.214	0.001	0	0	0	1
PD.7491	PL.48578	A	50QA	7.31Y	121.9	0.00	3.09	0.93	2	7	1	99	0.00	0.0	6.214	0.001	0	0	0	1
PL.48579	PD.7491	A	#4 ACSR	7.31Y	121.9	0.00	3.09	0.93	1	7	1	99	0.00	0.0	6.265	0.051	7	1	1	1
PL.48577	PL.47348	ABC	336 MCM AC	7.31Y	121.8	0.06	3.15	74.70	14	1586	413	97	0.53	0.0	6.325	0.113	16	3	3	237
PL.52260	PL.48577	C	6 A (CWC)	7.31Y	121.8	0.00	3.16	28.11	20	201	45	98	0.00	0.0	6.327	0.002	0	0	0	30
PD.7542	PL.52260	C	40T	7.31Y	121.8	0.00	3.16	28.11	0	201	45	98	0.00	0.0	6.327	0.002	0	0	0	30
PL.48576	PD.7542	C	6 A (CWC)	7.31Y	121.8	0.09	3.25	28.11	20	201	45	98	0.13	0.1	6.397	0.070	0	0	1	30
PL.52259	PL.48576	C	6 A (CWC)	7.31Y	121.8	0.00	3.25	28.11	20	200	45	98	0.00	0.0	6.398	0.001	0	0	0	29
PL.52258	PL.52259	C	6 A (CWC)	7.30Y	121.6	0.11	3.36	28.11	20	200	45	98	0.16	0.1	6.488	0.090	12	3	1	29
PL.48142	PL.52258	C	6 A (CWC)	7.30Y	121.6	0.04	3.40	10.46	7	75	17	98	0.02	0.0	6.581	0.093	0	0	0	13
PL.48261	PL.48142	C	6 A (CWC)	7.29Y	121.6	0.03	3.43	10.46	7	75	17	98	0.01	0.0	6.637	0.056	0	0	0	13
PL.47565	PL.48261	C	#2 ACSR	7.29Y	121.6	0.00	3.43	0.04	0	0	0	100	0.00	0.0	6.730	0.093	0	0	1	1
PL.48260	PL.48261	C	6 A (CWC)	7.29Y	121.6	0.02	3.45	10.42	7	74	16	98	0.01	0.0	6.683	0.046	9	2	1	12
PL.47170	PL.48260	C	6 A (CWC)	7.29Y	121.5	0.03	3.48	9.17	7	65	15	97	0.01	0.0	6.771	0.088	18	4	2	11
PL.47167	PL.47170	C	6 A (CWC)	7.29Y	121.5	0.06	3.54	5.31	4	38	8	98	0.02	0.0	7.020	0.249	0	0	0	7
PD.9525	PL.47167	C	25T	7.29Y	121.5	0.00	3.54	5.31	0	38	8	98	0.00	0.0	7.020	0.249	0	0	0	7
PL.48139	PD.9525	C	6 A (CWC)	7.29Y	121.5	0.00	3.54	5.31	4	38	8	98	0.00	0.0	7.025	0.005	0	0	0	7
PL.62660	PL.48139	C	6 A (CWC)	7.29Y	121.5	0.01	3.55	2.82	2	20	4	98	0.00	0.0	7.096	0.071	0	0	0	5
PD.9383	PL.62660	C	15T	7.29Y	121.5	0.00	3.55	2.82	0	20	4	98	0.00	0.0	7.096	0.071	0	0	0	5
PL.62661	PD.9383	C	6 A (CWC)	7.29Y	121.4	0.01	3.56	2.82	2	20	4	98	0.00	0.0	7.165	0.069	0	0	0	5

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Balanced Voltage Drop Report
Source: Brodhead

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.46748	PL.62661	C	6 A (CWC)	7.29Y	121.4	0.01	3.56	1.78	1	13	3	97	0.00	0.0	7.343	0.178	13	3	2	2
PL.48140	PL.62661	C	6 A (CWC)	7.29Y	121.4	0.01	3.56	1.04	1	7	2	96	0.00	0.0	7.317	0.152	1	0	2	3
PL.48141	PL.48140	C	6 A (CWC)	7.29Y	121.4	0.01	3.57	0.89	1	6	1	99	0.00	0.0	7.469	0.151	0	0	0	1
PL.48257	PL.48141	C	6 A (CWC)	7.29Y	121.4	0.00	3.57	0.89	1	6	1	99	0.00	0.0	7.559	0.091	6	1	1	1
PL.48646	PL.48139	C	#1/0 ACSR	7.29Y	121.4	0.03	3.57	2.49	1	18	4	98	0.00	0.0	7.541	0.516	0	0	0	2
PL.62586	PL.48646	C	#1/0 ACSR	7.29Y	121.4	0.00	3.57	0.00	0	0	0	100	0.00	0.0	7.733	0.192	0	0	0	0
PD.9393-B	PL.62586	C	Open	7.29Y	121.4	0.00	3.57	0.00	0	0	0	100	0.00	0.0	7.733	0.192	0	0	0	0
PL.48647	PL.48646	C	6 A (CWC)	7.29Y	121.4	0.01	3.58	2.49	2	18	4	98	0.00	0.0	7.653	0.112	12	3	1	2
PL.48138	PL.48647	C	6 A (CWC)	7.29Y	121.4	0.00	3.58	0.81	1	6	1	99	0.00	0.0	7.826	0.173	6	1	1	1
PL.47168	PL.47170	C	6 A (CWC)	7.29Y	121.5	0.00	3.48	0.59	0	4	1	97	0.00	0.0	6.829	0.058	0	0	0	1
PL.47169	PL.47168	C	6 A (CWC)	7.29Y	121.5	0.00	3.48	0.59	0	4	1	97	0.00	0.0	7.134	0.305	4	1	1	1
PL.46899	PL.47170	C	#2 ACSR	7.29Y	121.5	0.00	3.48	0.77	0	5	1	98	0.00	0.0	6.842	0.071	5	1	1	1
PL.48143	PL.52258	C	6 A (CWC)	7.30Y	121.6	0.04	3.39	16.00	11	114	25	98	0.03	0.0	6.543	0.055	10	2	1	15
PL.48144	PL.48143	C	6 A (CWC)	7.29Y	121.6	0.04	3.43	14.64	10	104	23	98	0.03	0.0	6.601	0.059	12	3	3	14
PL.48145	PL.48144	C	6 A (CWC)	7.29Y	121.6	0.01	3.44	9.30	7	66	15	98	0.00	0.0	6.624	0.023	8	2	1	7
PL.48151	PL.48145	C	6 A (CWC)	7.29Y	121.5	0.01	3.45	8.12	6	58	13	98	0.00	0.0	6.657	0.033	15	3	1	6
PL.48152	PL.48151	C	6 A (CWC)	7.29Y	121.5	0.01	3.46	5.98	4	43	9	98	0.00	0.0	6.693	0.036	15	3	2	5
PL.48150	PL.48152	C	6 A (CWC)	7.29Y	121.5	0.01	3.47	3.91	3	28	6	98	0.00	0.0	6.765	0.073	11	2	1	3
PL.48149	PL.48150	C	6 A (CWC)	7.29Y	121.5	0.01	3.48	2.40	2	17	4	97	0.00	0.0	6.845	0.080	0	0	0	2
PL.48146	PL.48149	C	6 A (CWC)	7.29Y	121.5	0.00	3.48	1.19	1	8	2	97	0.00	0.0	6.928	0.083	8	2	1	1
PL.48147	PL.48149	C	#2 ACSR	7.29Y	121.5	0.00	3.48	1.21	1	9	2	98	0.00	0.0	6.875	0.030	9	2	1	1
PL.48148	PL.48147	C	#2 ACSR	7.29Y	121.5	0.00	3.48	0.00	0	0	0	100	0.00	0.0	6.992	0.117	0	0	0	0
PL.48153	PL.48144	C	#2 ACSR	7.29Y	121.6	0.00	3.43	3.63	2	26	6	97	0.00	0.0	6.615	0.013	7	2	2	4
PL.48154	PL.48153	C	#2 ACSR	7.29Y	121.6	0.00	3.44	2.61	1	19	4	98	0.00	0.0	6.696	0.082	14	3	1	2
PL.48155	PL.48154	C	#2 ACSR	7.29Y	121.6	0.00	3.44	0.69	0	5	1	98	0.00	0.0	6.715	0.019	5	1	1	1
PL.48156	PL.48577	ABC	#3/0 ACSR	7.31Y	121.8	0.04	3.20	64.61	22	1370	363	97	0.38	0.0	6.380	0.054	2	0	1	204
PL.47317	PL.48156	C	6 A (CWC)	7.31Y	121.8	0.00	3.20	1.96	1	14	3	98	0.00	0.0	6.400	0.021	14	3	1	1
PL.48157	PL.48156	ABC	#3/0 ACSR	7.31Y	121.8	0.03	3.23	63.85	21	1353	359	97	0.25	0.0	6.416	0.037	4	1	1	202
PL.48158	PL.48157	ABC	#3/0 ACSR	7.30Y	121.7	0.05	3.28	63.66	21	1349	358	97	0.42	0.0	6.479	0.062	14	3	3	201
PL.47920	PL.48158	ABC	#3/0 ACSR	7.30Y	121.6	0.08	3.36	63.02	21	1334	354	97	0.69	0.1	6.582	0.103	0	0	1	198
PL.47921	PL.47920	ABC	#3/0 ACSR	7.29Y	121.6	0.06	3.42	63.02	21	1334	353	97	0.51	0.0	6.659	0.077	10	2	2	197

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Balanced Voltage Drop Report
Source: Brodhead

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.48202	PL.47921	ABC	#3/0 ACSR	7.29Y	121.5	0.04	3.46	62.54	21	1323	350	97	0.38	0.0	6.717	0.058	12	3	3	195
PL.48203	PL.48202	B	#4 ACSR	7.29Y	121.5	0.00	3.46	10.90	8	78	17	98	0.00	0.0	6.718	0.001	0	0	0	12
PD.7454	PL.48203	B	40T	7.29Y	121.5	0.00	3.46	10.90	0	78	17	98	0.00	0.0	6.718	0.001	0	0	0	12
PL.48204	PD.7454	B	#4 ACSR	7.29Y	121.5	0.01	3.47	10.90	8	78	17	98	0.00	0.0	6.737	0.019	14	3	1	12
PL.48205	PL.48204	B	#4 ACSR	7.29Y	121.5	0.00	3.47	8.93	7	64	14	98	0.00	0.0	6.738	0.001	0	0	0	11
PL.48206	PL.48205	B	#4 ACSR	7.29Y	121.5	0.01	3.48	8.93	7	64	14	98	0.00	0.0	6.765	0.027	5	1	1	11
PL.63447	PL.48206	B	#4 ACSR	7.29Y	121.5	0.01	3.50	8.25	6	59	13	98	0.01	0.0	6.803	0.038	0	0	1	10
PL.63448	PL.63447	B	#4 ACSR	7.29Y	121.5	0.02	3.51	8.24	6	59	13	98	0.01	0.0	6.845	0.042	0	0	0	9
PL.48208	PL.63448	B	#4 ACSR	7.29Y	121.5	0.01	3.52	6.77	5	48	11	97	0.00	0.0	6.885	0.040	23	5	6	8
PL.48207	PL.48208	B	#4 ACSR	7.29Y	121.5	0.00	3.53	3.56	3	25	6	97	0.00	0.0	6.941	0.055	25	6	2	2
PL.45990	PL.63448	B	#4 ACSR	7.29Y	121.5	0.00	3.51	1.48	1	10	2	98	0.00	0.0	6.883	0.038	10	2	1	1
PL.47273	PL.48202	ABC	#3/0 ACSR	7.29Y	121.5	0.06	3.52	58.37	19	1234	330	97	0.45	0.0	6.795	0.079	14	3	2	180
PL.47668	PL.47273	ABC	#3/0 ACSR	7.28Y	121.4	0.08	3.60	57.64	19	1217	326	97	0.64	0.1	6.911	0.115	0	0	0	177
PL.47669	PL.47668	ABC	#3/0 ACSR	7.28Y	121.4	0.00	3.60	56.06	19	1183	317	97	0.00	0.0	6.911	0.001	0	0	0	169
PL.47409	PL.47669	ABC	#3/0 ACSR	7.28Y	121.3	0.10	3.71	56.06	19	1183	317	97	0.78	0.1	7.060	0.149	0	0	0	169
PL.48210	PL.47409	A	#2 ACSR	7.28Y	121.3	0.00	3.71	1.46	1	10	2	98	0.00	0.0	7.061	0.002	0	0	0	1
PD.7457	PL.48210	A	30QA	7.28Y	121.3	0.00	3.71	1.46	5	10	2	98	0.00	0.0	7.061	0.002	0	0	0	1
PL.48211	PD.7457	A	#2 ACSR	7.28Y	121.3	0.00	3.71	1.46	1	10	2	98	0.00	0.0	7.062	0.001	0	0	0	1
PL.48209	PL.48211	A	#2 ACSR	7.28Y	121.3	0.00	3.71	1.46	1	10	2	98	0.00	0.0	7.089	0.027	10	2	1	1
PL.47410	PL.47409	ABC	#3/0 ACSR	7.27Y	121.2	0.10	3.80	55.58	19	1172	314	97	0.71	0.1	7.197	0.137	0	0	0	168
PL.51561	PL.47410	ABC	#3/0 ACSR	7.27Y	121.2	0.04	3.85	55.58	19	1171	313	97	0.32	0.0	7.259	0.062	0	0	0	168
PL.51563	PL.51561	ABC	#3/0 ACSR	7.27Y	121.1	0.04	3.89	55.48	18	1169	312	97	0.29	0.0	7.316	0.057	9	2	3	167
PL.48648	PL.51563	ABC	#3/0 ACSR	7.26Y	121.1	0.05	3.94	55.05	18	1160	310	97	0.40	0.0	7.394	0.078	0	0	0	164
PL.47560	PL.48648	ABC	336 MCM AC	7.26Y	121.0	0.04	3.98	53.70	10	1131	301	97	0.23	0.0	7.490	0.096	0	0	0	160
PL.48653	PL.47560	C	#4 ACSR	7.26Y	121.0	0.00	3.98	1.30	1	9	2	98	0.00	0.0	7.490	0.001	0	0	0	1
PD.7459	PL.48653	C	40QA	7.26Y	121.0	0.00	3.98	1.30	3	9	2	98	0.00	0.0	7.490	0.001	0	0	0	1
PL.48654	PD.7459	C	#4 ACSR	7.26Y	121.0	0.01	3.98	1.30	1	9	2	98	0.00	0.0	7.593	0.102	0	0	0	1
PL.64605	PL.48654	C	#1/0 ACSR	7.26Y	121.0	0.00	3.98	1.30	1	9	2	98	0.00	0.0	7.611	0.018	9	2	1	1
PL.48651	PL.47560	A	#1/0 ACSR	7.26Y	121.0	0.00	3.98	1.14	0	8	2	97	0.00	0.0	7.490	0.001	0	0	0	1
PD.7431	PL.48651	A	40QA	7.26Y	121.0	0.00	3.98	1.14	3	8	2	97	0.00	0.0	7.490	0.001	0	0	0	1
PL.48652	PD.7431	A	#1/0 ACSR	7.26Y	121.0	0.00	3.98	1.14	0	8	2	97	0.00	0.0	7.508	0.017	8	2	1	1

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Balanced Voltage Drop Report
Source: Brodhead

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.60106	PL.47560	ABC	336 MCM AC	7.26Y	120.9	0.08	4.06	52.89	10	1113	297	97	0.50	0.0	7.701	0.211	0	0	0	158
PL.60107	PL.60106	ABC	336 MCM AC	7.26Y	120.9	0.00	4.06	19.33	4	410	93	98	0.01	0.0	7.733	0.032	0	0	0	79
PL.46752	PL.60107	ABC	336 MCM AC	7.26Y	120.9	0.01	4.07	19.08	4	405	91	98	0.01	0.0	7.772	0.039	0	0	0	77
PL.48186	PL.46752	ABC	336 MCM AC	7.26Y	120.9	0.01	4.08	19.08	4	405	91	98	0.02	0.0	7.825	0.053	0	0	0	77
PL.59406	PL.48186	ABC	336 MCM AC	7.26Y	120.9	0.00	4.08	19.08	4	405	91	98	0.00	0.0	7.828	0.003	0	0	0	77
PD.8765	PL.59406	ABC	70CodeSMod	7.26Y	120.9	0.00	4.08	19.08	0	405	91	98	0.00	0.0	7.828	0.003	0	0	0	77
PL.59407	PD.8765	ABC	336 MCM AC	7.25Y	120.9	0.04	4.12	19.08	4	405	91	98	0.09	0.0	8.127	0.299	0	0	0	77
PL.59405	PL.59407	ABC	336 MCM AC	7.25Y	120.9	0.01	4.13	19.08	4	405	91	98	0.02	0.0	8.208	0.081	0	0	0	76
PL.48348	PL.59405	B	#2 ACSR	7.25Y	120.9	0.00	4.13	2.35	1	17	4	97	0.00	0.0	8.210	0.001	0	0	0	5
PD.7432	PL.48348	B	40QA	7.25Y	120.9	0.00	4.13	2.35	6	17	4	97	0.00	0.0	8.210	0.001	0	0	0	5
PL.52254	PD.7432	B	#2 ACSR	7.25Y	120.9	0.00	4.13	2.35	1	17	4	97	0.00	0.0	8.278	0.068	0	0	0	5
PL.52322	PL.52254	B	#2 ACSR	7.25Y	120.9	0.00	4.13	1.80	1	13	3	97	0.00	0.0	8.306	0.028	13	3	2	2
PL.52255	PL.52254	B	#2 ACSR	7.25Y	120.9	0.00	4.13	0.55	0	4	1	97	0.00	0.0	8.425	0.147	1	0	1	3
PL.48574	PL.52255	B	#2 ACSR	7.25Y	120.9	0.00	4.14	0.48	0	3	1	95	0.00	0.0	8.496	0.071	2	0	1	2
PL.48573	PL.48574	B	#2 ACSR	7.25Y	120.9	0.00	4.14	0.18	0	1	0	100	0.00	0.0	8.642	0.146	1	0	1	1
PL.48349	PL.59405	ABC	336 MCM AC	7.25Y	120.9	0.00	4.13	18.29	4	388	87	98	0.00	0.0	8.222	0.014	9	2	1	71
PL.48350	PL.48349	ABC	336 MCM AC	7.25Y	120.9	0.01	4.13	17.89	3	380	85	98	0.01	0.0	8.269	0.046	0	0	1	70
PL.48351	PL.48350	ABC	336 MCM AC	7.25Y	120.9	0.01	4.14	17.89	3	380	85	98	0.01	0.0	8.316	0.047	3	1	1	69
PL.48352	PL.48351	ABC	336 MCM AC	7.25Y	120.9	0.00	4.15	17.77	3	377	84	98	0.01	0.0	8.352	0.036	2	0	1	68
PL.48353	PL.48352	C	#4 ACSR	7.25Y	120.9	0.00	4.15	1.91	1	14	3	98	0.00	0.0	8.357	0.005	0	0	0	1
PD.7433	PL.48353	C	40QA	7.25Y	120.9	0.00	4.15	1.91	5	14	3	98	0.00	0.0	8.357	0.005	0	0	0	1
PL.48354	PD.7433	C	#4 ACSR	7.25Y	120.9	0.00	4.15	1.91	1	14	3	98	0.00	0.0	8.428	0.071	14	3	1	1
PL.48355	PL.48352	ABC	336 MCM AC	7.25Y	120.8	0.02	4.16	17.04	3	362	81	98	0.03	0.0	8.487	0.135	14	3	1	66
PL.48356	PL.48355	ABC	336 MCM AC	7.25Y	120.8	0.01	4.17	16.38	3	348	78	98	0.02	0.0	8.584	0.097	10	2	1	65
PL.48360	PL.48356	ABC	336 MCM AC	7.25Y	120.8	0.02	4.19	15.32	3	325	73	98	0.03	0.0	8.752	0.167	0	0	0	62
PL.48361	PL.48360	C	#2 ACSR	7.25Y	120.8	0.00	4.19	2.02	1	14	3	98	0.00	0.0	8.753	0.001	0	0	0	2
PD.7503	PL.48361	C	40QA	7.25Y	120.8	0.00	4.19	2.02	5	14	3	98	0.00	0.0	8.753	0.001	0	0	0	2
PL.48362	PD.7503	C	#2 ACSR	7.25Y	120.8	0.00	4.19	2.02	1	14	3	98	0.00	0.0	8.792	0.040	14	3	2	2
PL.48363	PL.48360	ABC	336 MCM AC	7.25Y	120.8	0.01	4.20	14.65	3	311	69	98	0.02	0.0	8.844	0.092	22	5	3	60
PL.48364	PL.48363	ABC	336 MCM AC	7.25Y	120.8	0.02	4.21	13.63	3	289	65	98	0.03	0.0	9.015	0.171	3	1	1	57
PL.48371	PL.48364	A	#2 ACSR	7.25Y	120.8	0.00	4.22	3.09	2	22	5	98	0.00	0.0	9.065	0.050	5	1	2	5

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Balanced Voltage Drop Report
Source: Brodhead

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.48372	PL.48371	A	#2 ACSR	7.25Y	120.8	0.00	4.22	2.38	1	17	4	97	0.00	0.0	9.132	0.067	8	2	2	3
PL.48419	PL.48372	A	#2 ACSR	7.25Y	120.8	0.00	4.22	1.21	1	9	2	98	0.00	0.0	9.174	0.042	9	2	1	1
PL.48420	PL.48364	ABC	336 MCM AC	7.25Y	120.8	0.00	4.22	11.67	2	248	55	98	0.00	0.0	9.049	0.034	5	1	1	47
PL.48421	PL.48420	C	#2 ACSR	7.25Y	120.8	0.00	4.22	3.39	2	24	5	98	0.00	0.0	9.050	0.001	0	0	0	4
PD.7436	PL.48421	C	50QA	7.25Y	120.8	0.00	4.22	3.39	7	24	5	98	0.00	0.0	9.050	0.001	0	0	0	4
PL.48422	PD.7436	C	#2 ACSR	7.25Y	120.8	0.01	4.22	3.39	2	24	5	98	0.00	0.0	9.109	0.060	9	2	3	4
PL.48423	PL.48422	C	#2 ACSR	7.25Y	120.8	0.00	4.22	2.18	1	15	3	98	0.00	0.0	9.130	0.021	15	3	1	1
PL.47175	PL.48420	A	1/0 AL URD	7.25Y	120.8	0.00	4.22	1.76	1	12	3	97	0.00	0.0	9.064	0.015	12	3	1	1
PL.48424	PL.48420	ABC	336 MCM AC	7.25Y	120.8	0.00	4.22	9.71	2	206	46	98	0.01	0.0	9.120	0.071	0	0	0	41
PL.48103	PL.48424	ABC	336 MCM AC	7.25Y	120.8	0.01	4.23	9.71	2	206	46	98	0.01	0.0	9.219	0.099	13	3	2	41
PL.48104	PL.48103	ABC	336 MCM AC	7.25Y	120.8	0.01	4.24	9.08	2	193	43	98	0.01	0.0	9.329	0.110	0	0	0	39
PL.47419	PL.48104	ABC	336 MCM AC	7.25Y	120.8	0.01	4.24	7.72	1	164	37	98	0.01	0.0	9.434	0.105	0	0	0	28
PL.47566	PL.47419	A	#2 ACSR	7.25Y	120.8	0.00	4.24	0.19	0	1	0	100	0.00	0.0	9.440	0.006	0	0	0	1
PD.7505	PL.47566	A	40QA	7.25Y	120.8	0.00	4.24	0.19	0	1	0	100	0.00	0.0	9.440	0.006	0	0	0	1
PL.47567	PD.7505	A	#2 ACSR	7.25Y	120.8	0.00	4.24	0.19	0	1	0	100	0.00	0.0	9.469	0.028	1	0	1	1
PL.47568	PL.47419	C	6 A (CWC)	7.24Y	120.7	0.06	4.30	22.96	16	162	36	98	0.08	0.0	9.496	0.062	3	1	2	27
PL.47569	PL.47568	C	6 A (CWC)	7.23Y	120.6	0.13	4.44	22.47	16	159	36	98	0.16	0.1	9.630	0.133	0	0	0	25
PL.47570	PL.47569	C	6 A (CWC)	7.23Y	120.6	0.00	4.44	17.96	13	127	28	98	0.00	0.0	9.635	0.005	0	0	0	19
PD.7602	PL.47570	C	35L	7.23Y	120.6	0.00	4.44	17.96	51	127	28	98	0.00	0.0	9.635	0.005	0	0	0	19
PL.47630	PD.7602	C	6 A (CWC)	7.23Y	120.5	0.09	4.53	17.96	13	127	28	98	0.08	0.1	9.741	0.106	0	0	0	19
PL.60168	PL.47630	C	6 A (CWC)	7.23Y	120.5	0.00	4.53	2.85	2	20	4	98	0.00	0.0	9.745	0.003	0	0	0	4
PD.8924	PL.60168	C	20	7.23Y	120.5	0.00	4.53	2.85	14	20	4	98	0.00	0.0	9.745	0.003	0	0	0	4
PL.60169	PD.8924	C	6 A (CWC)	7.23Y	120.5	0.01	4.54	2.85	2	20	4	98	0.00	0.0	9.816	0.071	5	1	2	4
PL.47631	PL.60169	C	6 A (CWC)	7.23Y	120.5	0.00	4.54	2.09	1	15	3	98	0.00	0.0	9.871	0.055	15	3	2	2
PL.47632	PL.47630	C	6 A (CWC)	7.22Y	120.3	0.16	4.69	15.11	11	107	24	98	0.13	0.1	9.976	0.235	0	0	1	15
PL.60127	PL.47632	C	6 A (CWC)	7.22Y	120.3	0.00	4.69	13.59	10	96	21	98	0.00	0.0	9.979	0.003	0	0	0	13
PD.8916	PL.60127	C	20T	7.22Y	120.3	0.00	4.69	13.59	0	96	21	98	0.00	0.0	9.979	0.003	0	0	0	13
PL.60128	PD.8916	C	6 A (CWC)	7.22Y	120.3	0.06	4.75	13.59	10	96	21	98	0.04	0.0	10.070	0.090	0	0	0	13
PL.60125	PL.60128	C	6 A (CWC)	7.22Y	120.3	0.00	4.75	11.04	8	78	17	98	0.00	0.0	10.073	0.003	0	0	0	11
PD.8915	PL.60125	C	20T	7.22Y	120.3	0.00	4.75	11.04	0	78	17	98	0.00	0.0	10.073	0.003	0	0	0	11
PL.60126	PD.8915	C	6 A (CWC)	7.21Y	120.2	0.05	4.80	11.04	8	78	17	98	0.03	0.0	10.167	0.094	0	0	0	11

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Balanced Voltage Drop Report
Source: Brodhead

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.8851-A	PL.60126	C	Closed	7.21Y	120.2	0.00	4.80	11.04	0	78	17	98	0.00	0.0	10.167	0.094	0	0	0	11
PD.8851-B	PD.8851-A	C	Closed	7.21Y	120.2	0.00	4.80	11.04	0	78	17	98	0.00	0.0	10.167	0.094	0	0	0	11
PL.59751	PD.8851-B	C	6 A (CWC)	7.21Y	120.1	0.07	4.86	11.04	8	78	17	98	0.04	0.1	10.302	0.134	0	0	0	11
PL.45994	PL.59751	C	#2 ACSR	7.21Y	120.1	0.01	4.87	1.15	1	8	2	97	0.00	0.0	10.634	0.332	8	2	1	1
PL.47371	PL.59751	C	6 A (CWC)	7.20Y	120.1	0.07	4.93	9.89	7	70	16	97	0.04	0.1	10.465	0.163	0	0	0	10
PL.60047	PL.47371	C	6 A (CWC)	7.20Y	120.0	0.04	4.98	9.89	7	70	15	98	0.02	0.0	10.560	0.095	0	0	0	10
PL.60048	PL.60047	C	6 A (CWC)	7.20Y	119.9	0.08	5.06	8.53	6	60	13	98	0.04	0.1	10.775	0.215	0	0	0	7
PL.60049	PL.60048	C	#1/0 ACSR	7.20Y	119.9	0.00	5.06	0.04	0	0	0	100	0.00	0.0	10.779	0.004	0	0	0	1
PD.8848	PL.60049	C	15T	7.20Y	119.9	0.00	5.06	0.04	0	0	0	100	0.00	0.0	10.779	0.004	0	0	0	1
PL.60050	PD.8848	C	#1/0 ACSR	7.20Y	119.9	0.00	5.06	0.04	0	0	0	100	0.00	0.0	10.833	0.055	0	0	1	1
PL.62917	PL.60048	C	#2/0 ACSR	7.19Y	119.9	0.03	5.09	8.48	3	60	13	98	0.01	0.0	10.944	0.169	0	0	0	6
PL.62916	PL.62917	C	#2 ACSR	7.19Y	119.9	0.00	5.09	2.77	2	19	4	98	0.00	0.0	10.994	0.049	19	4	1	1
PL.62918	PL.62917	C	#2 ACSR	7.19Y	119.9	0.00	5.09	5.72	3	40	9	98	0.00	0.0	10.948	0.003	0	0	0	5
PD.9446	PL.62918	C	20T	7.19Y	119.9	0.00	5.09	5.72	0	40	9	98	0.00	0.0	10.948	0.003	0	0	0	5
PL.62915	PD.9446	C	#2 ACSR	7.19Y	119.9	0.00	5.09	5.72	3	40	9	98	0.00	0.0	10.976	0.028	9	2	1	5
PL.47208	PL.62915	C	#2 ACSR	7.19Y	119.8	0.08	5.17	4.48	3	31	7	98	0.02	0.1	11.539	0.563	0	0	0	4
PL.47907	PL.47208	C	#2 ACSR	7.19Y	119.8	0.00	5.17	1.05	1	7	2	96	0.00	0.0	11.558	0.019	7	2	1	1
PL.47209	PL.47208	C	#2 ACSR	7.19Y	119.8	0.01	5.18	3.43	2	24	5	98	0.00	0.0	11.652	0.113	0	0	0	3
PL.48263	PL.47209	C	#2 ACSR	7.19Y	119.8	0.00	5.19	3.43	2	24	5	98	0.00	0.0	11.702	0.050	10	2	1	3
PL.47712	PL.48263	C	6 A (CWC)	7.19Y	119.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	11.739	0.037	0	0	0	0
PL.47571	PL.47712	C	6 A (CWC)	7.19Y	119.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	11.743	0.004	0	0	0	0
PD.7435	PL.47571	C	40QA	7.19Y	119.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	11.743	0.004	0	0	0	0
PL.47572	PD.7435	C	6 A (CWC)	7.19Y	119.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	12.198	0.455	0	0	0	0
PL.47573	PL.47572	C	6 A (CWC)	7.19Y	119.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	12.490	0.293	0	0	0	0
PL.47210	PL.47573	C	6 A (CWC)	7.19Y	119.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	12.697	0.207	0	0	0	0
PL.47634	PL.47572	C	6 A (CWC)	7.19Y	119.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	12.353	0.155	0	0	0	0
PL.64764	PL.48263	C	6 A (CWC)	7.19Y	119.8	0.00	5.19	2.02	1	14	3	98	0.00	0.0	11.742	0.040	0	0	0	2
PL.64765	PL.64764	C	6 A (CWC)	7.19Y	119.8	0.01	5.19	2.02	1	14	3	98	0.00	0.0	11.804	0.063	0	0	0	2
PL.47739	PL.64765	C	6 A (CWC)	7.19Y	119.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	12.076	0.271	0	0	0	0
PL.47574	PL.64765	C	6 A (CWC)	7.19Y	119.8	0.04	5.23	2.02	1	14	3	98	0.00	0.0	12.210	0.405	0	0	1	2
PL.47575	PL.47574	C	6 A (CWC)	7.19Y	119.8	0.00	5.23	2.02	1	14	3	98	0.00	0.0	12.264	0.055	14	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: Brodhead

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.60053	PL.47575	C	6 A (CWC)	7.19Y	119.8	0.00	5.23	0.00	0	0	0	100	0.00	0.0	12.268	0.003	0	0	0	0
PD.8849	PL.60053	C	12T	7.19Y	119.8	0.00	5.23	0.00	0	0	0	100	0.00	0.0	12.268	0.003	0	0	0	0
PL.59748	PD.8849	C	6 A (CWC)	7.19Y	119.8	0.00	5.23	0.00	0	0	0	100	0.00	0.0	12.307	0.039	0	0	0	0
PL.60052	PL.59748	C	6 A (CWC)	7.19Y	119.8	0.00	5.23	0.00	0	0	0	100	0.00	0.0	12.339	0.032	0	0	0	0
PL.47207	PL.60052	C	6 A (CWC)	7.19Y	119.8	0.00	5.23	0.00	0	0	0	100	0.00	0.0	12.402	0.063	0	0	0	0
PL.48572	PL.60052	C	6 A (CWC)	7.19Y	119.8	0.00	5.23	0.00	0	0	0	100	0.00	0.0	13.023	0.683	0	0	0	0
PL.59749	PL.60047	C	6 A (CWC)	7.20Y	120.0	0.02	4.99	1.36	1	10	2	98	0.00	0.0	10.821	0.261	0	0	0	3
PD.8850	PL.59749	C	20T	7.20Y	120.0	0.00	4.99	1.36	0	10	2	98	0.00	0.0	10.821	0.261	0	0	0	3
PL.59750	PD.8850	C	6 A (CWC)	7.20Y	120.0	0.00	4.99	1.36	1	10	2	98	0.00	0.0	10.842	0.021	1	0	1	3
PL.47152	PL.59750	C	6 A (CWC)	7.20Y	120.0	0.00	5.00	1.16	1	8	2	97	0.00	0.0	11.020	0.178	8	2	1	2
PL.47153	PL.47152	C	6 A (CWC)	7.20Y	120.0	0.00	5.00	0.01	0	0	0	100	0.00	0.0	11.077	0.057	0	0	1	1
PL.46891	PL.59750	C	6 A (CWC)	7.20Y	120.0	0.00	4.99	0.00	0	0	0	100	0.00	0.0	10.935	0.093	0	0	0	0
PL.47535	PL.47371	C	6 A (CWC)	7.20Y	120.1	0.00	4.93	0.00	0	0	0	100	0.00	0.0	10.643	0.178	0	0	0	0
PL.47369	PL.60128	C	6 A (CWC)	7.21Y	120.2	0.01	4.75	2.54	2	18	4	98	0.00	0.0	10.155	0.085	8	2	1	2
PL.47370	PL.47369	C	6 A (CWC)	7.21Y	120.2	0.00	4.76	1.37	1	10	2	98	0.00	0.0	10.269	0.114	10	2	1	1
PL.46944	PL.47632	C	6 A (CWC)	7.22Y	120.3	0.00	4.69	1.52	1	11	2	98	0.00	0.0	10.058	0.082	11	2	1	1
PL.60130	PL.47569	C	6 A (CWC)	7.23Y	120.5	0.01	4.45	4.51	3	32	7	98	0.00	0.0	9.684	0.055	0	0	0	6
PD.8917	PL.60130	C	25T	7.23Y	120.5	0.00	4.45	4.51	0	32	7	98	0.00	0.0	9.684	0.055	0	0	0	6
PL.60131	PD.8917	C	6 A (CWC)	7.23Y	120.5	0.03	4.48	4.51	3	32	7	98	0.01	0.0	9.854	0.170	3	1	1	6
PL.60129	PL.60131	C	6 A (CWC)	7.23Y	120.5	0.05	4.53	3.98	3	28	6	98	0.01	0.0	10.107	0.253	0	0	0	4
PL.48169	PL.60129	C	6 A (CWC)	7.23Y	120.5	0.00	4.53	0.60	0	4	1	97	0.00	0.0	10.165	0.058	4	1	1	1
PL.47651	PL.60129	C	6 A (CWC)	7.23Y	120.4	0.03	4.56	3.38	2	24	5	98	0.00	0.0	10.286	0.179	0	0	0	3
PL.46940	PL.47651	C	6 A (CWC)	7.23Y	120.4	0.00	4.56	0.65	0	5	1	98	0.00	0.0	10.408	0.121	0	0	0	1
PL.46941	PL.46940	C	6 A (CWC)	7.23Y	120.4	0.00	4.56	0.65	0	5	1	98	0.00	0.0	10.531	0.123	5	1	1	1
PL.47266	PL.46940	C	6 A (CWC)	7.23Y	120.4	0.00	4.56	0.00	0	0	0	100	0.00	0.0	10.623	0.215	0	0	0	0
PL.60132	PL.47651	C	6 A (CWC)	7.23Y	120.4	0.01	4.57	2.72	2	19	4	98	0.00	0.0	10.398	0.112	0	0	0	2
PD.8918	PL.60132	C	10T	7.23Y	120.4	0.00	4.57	2.72	0	19	4	98	0.00	0.0	10.398	0.112	0	0	0	2
PL.60133	PD.8918	C	6 A (CWC)	7.23Y	120.4	0.01	4.57	2.72	2	19	4	98	0.00	0.0	10.458	0.060	12	3	1	2
PL.46939	PL.60133	C	6 A (CWC)	7.23Y	120.4	0.00	4.58	1.03	1	7	2	96	0.00	0.0	10.614	0.156	7	2	1	1
PL.63711	PL.60131	C	#1/0 ACSR	7.23Y	120.5	0.00	4.48	0.08	0	1	0	100	0.00	0.0	9.917	0.063	1	0	1	1
PL.48105	PL.48104	C	#4 ACSR	7.25Y	120.8	0.00	4.24	4.09	3	29	6	98	0.00	0.0	9.330	0.001	0	0	0	11

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: Brodhead

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.7437	PL.48105	C	30QA	7.25Y	120.8	0.00	4.24	4.09	14	29	6	98	0.00	0.0	9.330	0.001	0	0	0	11
PL.46942	PD.7437	C	#4 ACSR	7.24Y	120.7	0.08	4.32	4.09	3	29	6	98	0.02	0.1	9.858	0.528	8	2	1	11
PL.47154	PL.46942	C	#4 ACSR	7.24Y	120.7	0.01	4.33	2.93	2	21	5	97	0.00	0.0	9.919	0.062	0	0	0	10
PL.47420	PL.47154	C	#4 ACSR	7.24Y	120.7	0.01	4.34	1.79	1	13	3	97	0.00	0.0	10.074	0.154	4	1	1	6
PL.47421	PL.47420	C	#4 ACSR	7.24Y	120.7	0.00	4.34	1.25	1	9	2	98	0.00	0.0	10.097	0.024	5	1	1	5
PL.47422	PL.47421	C	#4 ACSR	7.24Y	120.7	0.00	4.34	0.49	0	3	1	95	0.00	0.0	10.338	0.241	1	0	1	4
PL.48264	PL.47422	C	#4 ACSR	7.24Y	120.7	0.00	4.34	0.41	0	3	1	95	0.00	0.0	10.383	0.045	0	0	1	3
PL.46930	PL.48264	C	#4 ACSR	7.24Y	120.7	0.00	4.35	0.38	0	3	1	95	0.00	0.0	10.583	0.200	0	0	1	2
PL.48575	PL.46930	C	#4 ACSR	7.24Y	120.7	0.00	4.35	0.37	0	3	1	95	0.00	0.0	10.693	0.110	3	1	1	1
PL.47277	PL.47154	C	#4 ACSR	7.24Y	120.7	0.00	4.33	0.26	0	2	0	100	0.00	0.0	10.180	0.261	2	0	3	3
PL.45998	PL.47154	C	#4 ACSR	7.24Y	120.7	0.00	4.33	0.89	1	6	1	99	0.00	0.0	10.080	0.161	6	1	1	1
PL.48365	PL.48364	A	6 A (CWC)	7.25Y	120.8	0.00	4.21	2.31	2	16	4	97	0.00	0.0	9.016	0.001	0	0	0	4
PD.7504	PL.48365	A	40QA	7.25Y	120.8	0.00	4.21	2.31	6	16	4	97	0.00	0.0	9.016	0.001	0	0	0	4
PL.48366	PD.7504	A	6 A (CWC)	7.25Y	120.8	0.00	4.22	2.31	2	16	4	97	0.00	0.0	9.077	0.061	10	2	1	4
PL.48367	PL.48366	A	6 A (CWC)	7.25Y	120.8	0.00	4.22	0.94	1	7	1	99	0.00	0.0	9.107	0.030	4	1	2	3
PL.48368	PL.48367	A	6 A (CWC)	7.25Y	120.8	0.00	4.22	0.44	0	3	1	95	0.00	0.0	9.278	0.171	0	0	0	1
PL.48369	PL.48368	A	6 A (CWC)	7.25Y	120.8	0.00	4.22	0.00	0	0	0	100	0.00	0.0	9.398	0.120	0	0	0	0
PL.48370	PL.48369	A	6 A (CWC)	7.25Y	120.8	0.00	4.22	0.00	0	0	0	100	0.00	0.0	9.594	0.196	0	0	0	0
PL.47729	PL.48368	A	#4 ACSR	7.25Y	120.8	0.00	4.22	0.44	0	3	1	95	0.00	0.0	9.330	0.052	3	1	1	1
PL.47150	PL.48367	A	#4 ACSR	7.25Y	120.8	0.00	4.22	0.00	0	0	0	100	0.00	0.0	9.172	0.064	0	0	0	0
PL.48357	PL.48356	C	#2 ACSR	7.25Y	120.8	0.00	4.17	1.76	1	12	3	97	0.00	0.0	8.590	0.005	0	0	0	2
PD.7434	PL.48357	C	40QA	7.25Y	120.8	0.00	4.17	1.76	4	12	3	97	0.00	0.0	8.590	0.005	0	0	0	2
PL.48358	PD.7434	C	#2 ACSR	7.25Y	120.8	0.00	4.17	1.76	1	12	3	97	0.00	0.0	8.629	0.040	8	2	1	2
PL.48359	PL.48358	C	#2 ACSR	7.25Y	120.8	0.00	4.17	0.59	0	4	1	97	0.00	0.0	8.700	0.071	4	1	1	1
PL.59164	PL.59407	A	#2 ACSR	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	8.128	0.001	0	0	0	1
PD.7502	PL.59164	A	25QA	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	8.128	0.001	0	0	0	1
PL.48347	PD.7502	A	#2 ACSR	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	8.226	0.097	0	0	1	1
PL.46656	PL.60107	ABC	#2 ACSR	7.26Y	120.9	0.00	4.06	0.25	0	5	2	93	0.00	0.0	7.733	0.001	0	0	0	2
PD.7543	PL.46656	ABC	40QA	7.26Y	120.9	0.00	4.06	0.25	1	5	2	93	0.00	0.0	7.733	0.001	0	0	0	2
PL.46657	PD.7543	ABC	#2 ACSR	7.26Y	120.9	0.00	4.06	0.25	0	5	2	93	0.00	0.0	7.761	0.027	5	2	2	2
PL.60108	PL.60106	ABC	336 MCM AC	7.25Y	120.9	0.02	4.08	33.58	6	702	203	96	0.09	0.0	7.795	0.095	0	0	0	79

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Balanced Voltage Drop Report
Source: Brodhead

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.60111	PL.60108	ABC	#1/0 ACSR	7.25Y	120.9	0.01	4.10	10.83	5	217	92	92	0.02	0.0	7.857	0.062	2	0	2	13
PL.60113	PL.60111	ABC	#1/0 ACSR	7.25Y	120.9	0.01	4.11	10.74	5	215	92	92	0.02	0.0	7.927	0.069	0	0	0	11
PL.60115	PL.60113	ABC	#1/0 ACSR	7.25Y	120.9	0.00	4.12	9.02	4	178	84	90	0.01	0.0	7.953	0.026	0	0	0	6
PL.60117	PL.60115	ABC	#1/0 ACSR	7.25Y	120.9	0.01	4.12	8.62	4	169	82	90	0.01	0.0	8.009	0.056	0	0	0	2
PL.60118	PL.60117	B	#4 ACSR	7.25Y	120.9	0.00	4.12	0.13	0	1	0	100	0.00	0.0	8.038	0.029	1	0	1	1
PL.60378	PL.60117	ABC	#1/0 ACSR	7.25Y	120.9	0.00	4.13	8.58	4	168	81	90	0.00	0.0	8.044	0.035	168	81	1	1
PL.60116	PL.60115	A	#1/0 ACSR	7.25Y	120.9	0.00	4.12	1.21	1	9	2	98	0.00	0.0	7.956	0.004	0	0	0	4
PD.8914	PL.60116	A	40QA	7.25Y	120.9	0.00	4.12	1.21	3	9	2	98	0.00	0.0	7.956	0.004	0	0	0	4
PL.60381	PD.8914	A	#1/0 ACSR	7.25Y	120.9	0.00	4.12	1.21	1	9	2	98	0.00	0.0	8.082	0.126	0	0	1	4
PL.60382	PL.60381	A	#4 ACSR	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	8.187	0.105	0	0	0	0
PL.60380	PL.60381	A	#4 ACSR	7.25Y	120.9	0.00	4.12	1.21	1	9	2	98	0.00	0.0	8.136	0.054	0	0	0	3
PL.60379	PL.60380	A	#4 ACSR	7.25Y	120.9	0.00	4.12	1.21	1	9	2	98	0.00	0.0	8.182	0.046	7	1	2	3
PL.61971	PL.60379	A	#1/0 ACSR	7.25Y	120.9	0.00	4.12	0.29	0	2	0	100	0.00	0.0	8.258	0.076	2	0	1	1
PL.60114	PL.60113	C	#1/0 ACSR	7.25Y	120.9	0.00	4.11	5.27	2	37	8	98	0.00	0.0	7.930	0.003	0	0	0	5
PD.8913	PL.60114	C	40QA	7.25Y	120.9	0.00	4.11	5.27	13	37	8	98	0.00	0.0	7.930	0.003	0	0	0	5
PL.60112	PD.8913	C	#1/0 ACSR	7.25Y	120.9	0.01	4.12	5.27	2	37	8	98	0.00	0.0	7.983	0.053	0	0	0	5
PL.60119	PL.60112	C	#1/0 ACSR	7.25Y	120.9	0.00	4.12	1.99	1	14	3	98	0.00	0.0	7.991	0.008	14	3	2	2
PL.60120	PL.60112	C	#1/0 ACSR	7.25Y	120.9	0.00	4.12	3.28	1	23	5	98	0.00	0.0	8.011	0.028	0	0	0	3
PL.60121	PL.60120	C	#1/0 ACSR	7.25Y	120.9	0.00	4.12	2.35	1	17	4	97	0.00	0.0	8.039	0.028	9	2	1	2
PL.60122	PL.60121	C	#1/0 ACSR	7.25Y	120.9	0.00	4.12	1.08	0	8	2	97	0.00	0.0	8.069	0.030	8	2	1	1
PL.60123	PL.60120	C	#1/0 ACSR	7.25Y	120.9	0.00	4.12	0.93	0	7	1	99	0.00	0.0	8.047	0.035	7	1	1	1
PL.60124	PL.60123	C	#1/0 ACSR	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	8.164	0.118	0	0	0	0
PL.60110	PL.60108	ABC	336 MCM AC	7.25Y	120.9	0.02	4.10	22.87	4	486	110	98	0.05	0.0	7.898	0.103	0	0	0	66
PL.60109	PL.60110	ABC	336 MCM AC	7.25Y	120.9	0.01	4.11	22.87	4	485	110	98	0.03	0.0	7.959	0.061	0	0	0	66
PL.47924	PL.60109	ABC	336 MCM AC	7.25Y	120.9	0.01	4.12	22.87	4	485	110	98	0.03	0.0	8.027	0.068	0	0	0	66
PL.52658	PL.47924	ABC	336 MCM AC	7.25Y	120.9	0.00	4.12	3.43	1	73	16	98	0.00	0.0	8.105	0.078	0	0	0	10
PL.52659	PL.52658	A	#4 ACSR	7.25Y	120.9	0.00	4.12	10.28	8	73	16	98	0.00	0.0	8.106	0.002	0	0	0	10
PD.7976	PL.52659	A	50QA	7.25Y	120.9	0.00	4.12	10.28	21	73	16	98	0.00	0.0	8.106	0.002	0	0	0	10
PL.52660	PD.7976	A	#4 ACSR	7.25Y	120.9	0.01	4.13	10.28	8	73	16	98	0.00	0.0	8.125	0.019	10	2	1	10
PL.47929	PL.52660	A	#4 ACSR	7.25Y	120.9	0.01	4.14	8.90	7	63	14	98	0.00	0.0	8.143	0.018	0	0	0	9
PL.48709	PL.47929	A	#4 ACSR	7.25Y	120.8	0.05	4.19	7.85	6	56	12	98	0.02	0.0	8.300	0.157	0	0	0	8

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Balanced Voltage Drop Report
Source: Brodhead

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.48710	PL.48709	A	#2 ACSR	7.25Y	120.8	0.00	4.19	2.81	2	20	4	98	0.00	0.0	8.316	0.016	9	2	1	2
PL.48711	PL.48710	A	#2 ACSR	7.25Y	120.8	0.00	4.19	1.50	1	11	2	98	0.00	0.0	8.343	0.027	11	2	1	1
PL.47642	PL.48709	A	#4 ACSR	7.25Y	120.8	0.02	4.21	5.04	4	36	8	98	0.01	0.0	8.397	0.097	2	1	1	6
PL.48712	PL.47642	A	#4 ACSR	7.25Y	120.8	0.02	4.24	4.72	4	33	7	98	0.01	0.0	8.509	0.112	0	0	0	5
PL.48713	PL.48712	A	#4 ACSR	7.25Y	120.8	0.00	4.24	0.53	0	4	1	97	0.00	0.0	8.557	0.049	0	0	0	1
PL.47698	PL.48713	A	#4 ACSR	7.25Y	120.8	0.00	4.24	0.00	0	0	0	100	0.00	0.0	8.613	0.056	0	0	0	0
PL.48714	PL.48713	A	#4 ACSR	7.25Y	120.8	0.00	4.24	0.53	0	4	1	97	0.00	0.0	8.653	0.096	4	1	1	1
PL.48715	PL.48712	A	#4 ACSR	7.24Y	120.7	0.04	4.28	4.18	3	30	7	97	0.01	0.0	8.720	0.211	0	0	0	4
PL.48718	PL.48715	A	#4 ACSR	7.24Y	120.7	0.00	4.28	0.73	1	5	1	98	0.00	0.0	8.836	0.116	5	1	1	1
PL.48719	PL.48718	A	#4 ACSR	7.24Y	120.7	0.00	4.28	0.00	0	0	0	100	0.00	0.0	8.890	0.054	0	0	0	0
PL.48716	PL.48715	A	#4 ACSR	7.24Y	120.7	0.02	4.29	3.46	3	24	5	98	0.00	0.0	8.831	0.111	5	1	1	3
PL.48717	PL.48716	A	#4 ACSR	7.24Y	120.7	0.00	4.29	2.78	2	20	4	98	0.00	0.0	8.843	0.012	20	4	2	2
PL.48707	PL.47929	A	#4 ACSR	7.25Y	120.9	0.00	4.14	1.06	1	7	2	96	0.00	0.0	8.211	0.068	0	0	0	1
PL.48708	PL.48707	A	#4 ACSR	7.25Y	120.8	0.01	4.15	1.06	1	7	2	96	0.00	0.0	8.660	0.449	7	2	1	1
PL.47925	PL.47924	B	6 A (CWC)	7.25Y	120.8	0.03	4.15	58.35	42	413	94	98	0.10	0.0	8.039	0.012	0	0	0	56
PL.63443	PL.47925	B	6 A (CWC)	7.25Y	120.8	0.05	4.20	58.35	42	413	94	98	0.16	0.0	8.058	0.019	5	1	1	56
PL.63444	PL.63443	B	6 A (CWC)	7.25Y	120.8	0.00	4.20	57.70	41	408	93	97	0.00	0.0	8.058	0.000	5	1	1	55
PL.57901	PL.63444	B	6 A (CWC)	7.23Y	120.5	0.27	4.47	56.96	41	403	91	98	0.83	0.2	8.163	0.105	0	0	0	54
PL.47926	PL.57901	B	6 A (CWC)	7.23Y	120.5	0.00	4.48	56.96	41	402	91	98	0.01	0.0	8.164	0.001	0	0	0	54
PD.9378	PL.47926	B	40T	7.23Y	120.5	0.00	4.48	56.96	0	402	91	98	0.00	0.0	8.164	0.001	0	0	0	54
PL.47927	PD.9378	B	6 A (CWC)	7.23Y	120.4	0.07	4.55	56.96	41	402	91	98	0.23	0.1	8.194	0.029	0	0	0	54
PL.63441	PL.47927	B	6 A (CWC)	7.22Y	120.3	0.13	4.68	56.96	41	402	91	98	0.40	0.1	8.245	0.051	0	0	0	54
PL.63442	PL.63441	B	6 A (CWC)	7.22Y	120.3	0.00	4.68	56.96	41	401	90	98	0.00	0.0	8.245	0.000	0	0	0	54
PL.47928	PL.63442	B	6 A (CWC)	7.20Y	120.0	0.31	5.00	55.44	40	390	88	98	0.93	0.2	8.372	0.127	8	2	1	53
PL.48720	PL.47928	B	6 A (CWC)	7.18Y	119.7	0.29	5.28	54.27	39	381	86	98	0.84	0.2	8.489	0.117	0	0	0	52
PL.46890	PL.48720	B	6 A (CWC)	7.18Y	119.7	0.00	5.28	1.64	1	11	3	96	0.00	0.0	8.548	0.059	11	3	1	1
PL.48416	PL.48720	B	6 A (CWC)	7.17Y	119.6	0.14	5.42	52.63	38	369	83	98	0.38	0.1	8.548	0.059	20	5	2	51
PL.48417	PL.48416	B	6 A (CWC)	7.17Y	119.5	0.11	5.53	49.71	36	348	78	98	0.29	0.1	8.598	0.050	7	2	2	49
PL.65742	PL.48417	B	6 A (CWC)	7.17Y	119.5	0.01	5.53	37.90	27	265	59	98	0.01	0.0	8.601	0.003	0	0	0	33
PD.9584	PL.65742	B	50T	7.17Y	119.5	0.00	5.53	37.90	0	265	59	98	0.00	0.0	8.601	0.003	0	0	0	33
PL.65743	PD.9584	B	6 A (CWC)	7.16Y	119.4	0.08	5.61	37.90	27	265	59	98	0.15	0.1	8.647	0.046	26	6	1	33

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.47659	PL.65743	B	6 A (CWC)	7.16Y	119.4	0.00	5.61	1.46	1	10	2	98	0.00	0.0	8.684	0.037	10	2	1	1
PL.48655	PL.65743	B	6 A (CWC)	7.16Y	119.4	0.03	5.64	5.42	4	38	8	98	0.01	0.0	8.774	0.126	0	0	0	6
PL.47155	PL.48655	B	#2 ACSR	7.16Y	119.4	0.00	5.64	0.00	0	0	0	100	0.00	0.0	8.825	0.051	0	0	0	0
PL.48657	PL.48655	B	6 A (CWC)	7.16Y	119.3	0.03	5.67	5.42	4	38	8	98	0.01	0.0	8.905	0.131	0	0	0	6
PL.47650	PL.48657	B	6 A (CWC)	7.16Y	119.3	0.00	5.67	0.20	0	1	0	100	0.00	0.0	8.937	0.032	1	0	1	1
PL.48659	PL.48657	B	6 A (CWC)	7.16Y	119.3	0.00	5.67	1.24	1	9	2	98	0.00	0.0	8.966	0.061	6	1	1	2
PL.64762	PL.48659	B	6 A (CWC)	7.16Y	119.3	0.00	5.67	0.39	0	3	1	95	0.00	0.0	8.966	0.000	0	0	0	1
PL.64763	PL.64762	B	6 A (CWC)	7.16Y	119.3	0.00	5.67	0.39	0	3	1	95	0.00	0.0	9.051	0.085	3	1	1	1
PL.48660	PL.48657	B	6 A (CWC)	7.16Y	119.3	0.00	5.68	3.97	3	28	6	98	0.00	0.0	8.937	0.033	15	3	1	3
PL.48661	PL.48660	B	6 A (CWC)	7.16Y	119.3	0.00	5.68	1.85	1	13	3	97	0.00	0.0	8.979	0.042	13	3	2	2
PL.64756	PL.65743	B	6 A (CWC)	7.16Y	119.3	0.11	5.72	27.34	20	191	43	98	0.17	0.1	8.739	0.092	0	0	0	25
PD.9557	PL.64756	B	20T	7.16Y	119.3	0.00	5.72	27.34	0	191	43	98	0.00	0.0	8.739	0.092	0	0	0	25
PL.64757	PD.9557	B	6 A (CWC)	7.15Y	119.2	0.11	5.83	27.34	20	191	43	98	0.16	0.1	8.826	0.086	0	0	0	25
PL.64758	PL.64757	B	6 A (CWC)	7.15Y	119.2	0.00	5.83	27.34	20	191	43	98	0.00	0.0	8.826	0.000	5	1	1	25
PL.48246	PL.64758	B	6 A (CWC)	7.15Y	119.2	0.00	5.83	1.88	1	13	3	97	0.00	0.0	8.868	0.042	0	0	0	2
PL.48247	PL.48246	B	6 A (CWC)	7.15Y	119.2	0.01	5.84	1.88	1	13	3	97	0.00	0.0	8.989	0.121	13	3	2	2
PL.48666	PL.64758	B	6 A (CWC)	7.15Y	119.1	0.03	5.86	24.76	18	173	39	98	0.05	0.0	8.856	0.030	0	0	0	22
PL.58934	PL.48666	B	6 A (CWC)	7.15Y	119.1	0.03	5.89	24.76	18	173	39	98	0.04	0.0	8.882	0.025	4	1	1	22
PL.58935	PL.58934	B	6 A (CWC)	7.14Y	119.0	0.14	6.03	24.14	17	168	38	98	0.18	0.1	9.010	0.128	1	0	1	21
PL.48345	PL.58935	B	6 A (CWC)	7.14Y	119.0	0.01	6.04	1.11	1	8	2	97	0.00	0.0	9.207	0.197	0	0	0	1
PL.48346	PL.48345	B	6 A (CWC)	7.14Y	119.0	0.00	6.04	1.11	1	8	2	97	0.00	0.0	9.277	0.070	8	2	1	1
PL.48344	PL.58935	B	#4 ACSR	7.13Y	118.9	0.07	6.10	22.90	18	160	36	98	0.09	0.1	9.081	0.071	0	0	0	19
PL.60034	PL.48344	B	#4 ACSR	7.13Y	118.8	0.06	6.16	22.90	18	159	35	98	0.07	0.0	9.140	0.059	5	1	1	19
PL.60035	PL.60034	B	#4 ACSR	7.13Y	118.8	0.04	6.19	22.25	17	155	34	98	0.04	0.0	9.179	0.039	22	5	1	18
PL.60036	PL.60035	B	#4 ACSR	7.13Y	118.8	0.03	6.22	19.16	15	133	30	98	0.03	0.0	9.210	0.032	4	1	1	17
PL.60248	PL.60036	B	#2 ACSR	7.13Y	118.8	0.02	6.24	18.59	11	129	29	98	0.02	0.0	9.245	0.035	0	0	0	16
PL.60249	PL.60248	B	#2 ACSR	7.12Y	118.7	0.03	6.27	18.59	11	129	29	98	0.02	0.0	9.292	0.047	8	2	1	16
PL.37520	PL.60249	B	#4 ACSR	7.12Y	118.7	0.02	6.29	17.46	13	121	27	98	0.02	0.0	9.320	0.028	1	0	1	15
PL.37519	PL.37520	B	#4 ACSR	7.12Y	118.7	0.03	6.32	17.35	13	121	27	98	0.03	0.0	9.369	0.049	17	4	4	14
PL.37518	PL.37519	B	#4 ACSR	7.12Y	118.6	0.03	6.35	14.95	11	104	23	98	0.02	0.0	9.421	0.051	12	3	1	10
PL.37244	PL.37518	B	#4 ACSR	7.12Y	118.6	0.02	6.37	11.36	9	79	18	98	0.01	0.0	9.461	0.040	0	0	0	8

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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.37243	PL.37244	B	#4 ACSR	7.12Y	118.6	0.04	6.41	8.39	6	58	13	98	0.02	0.0	9.560	0.100	0	0	0	5
PL.37817	PL.37243	B	#4 ACSR	7.11Y	118.6	0.01	6.42	2.07	2	14	3	98	0.00	0.0	9.685	0.124	14	3	1	1
PL.37242	PL.37243	B	6 A (CWC)	7.11Y	118.6	0.01	6.43	6.32	5	44	10	98	0.00	0.0	9.609	0.049	0	0	0	4
PL.36877	PL.37242	B	6 A (CWC)	7.11Y	118.6	0.01	6.43	4.13	3	29	6	98	0.00	0.0	9.680	0.070	20	4	2	3
PL.60247	PL.36877	B	6 A (CWC)	7.11Y	118.6	0.00	6.43	1.32	1	9	2	98	0.00	0.0	9.683	0.003	0	0	0	1
PD.8951	PL.60247	B	12T	7.11Y	118.6	0.00	6.43	1.32	0	9	2	98	0.00	0.0	9.683	0.003	0	0	0	1
PL.60246	PD.8951	B	6 A (CWC)	7.11Y	118.6	0.00	6.44	1.32	1	9	2	98	0.00	0.0	9.741	0.058	0	0	0	1
PL.60244	PL.60246	B	6 A (CWC)	7.11Y	118.5	0.03	6.46	1.32	1	9	2	98	0.00	0.0	10.161	0.420	0	0	0	1
PL.60243	PL.60244	B	6 A (CWC)	7.11Y	118.5	0.00	6.46	0.00	0	0	0	100	0.00	0.0	10.221	0.061	0	0	0	0
PL.60245	PL.60244	B	#4 ACSR	7.11Y	118.5	0.00	6.47	1.32	1	9	2	98	0.00	0.0	10.290	0.130	9	2	1	1
PL.37818	PL.37242	B	#2 ACSR	7.11Y	118.6	0.00	6.43	2.18	1	15	3	98	0.00	0.0	9.648	0.038	15	3	1	1
PL.37779	PL.37244	B	#4 ACSR	7.12Y	118.6	0.00	6.38	2.97	2	21	5	97	0.00	0.0	9.492	0.031	21	5	3	3
PL.37214	PL.37518	B	#1/0 ACSR	7.12Y	118.6	0.00	6.36	1.82	1	13	3	97	0.00	0.0	9.472	0.051	13	3	1	1
PL.65740	PL.48417	B	6 A (CWC)	7.17Y	119.5	0.00	5.53	10.83	8	76	17	98	0.00	0.0	8.602	0.004	0	0	0	14
PD.9583	PL.65740	B	50T	7.17Y	119.5	0.00	5.53	10.83	0	76	17	98	0.00	0.0	8.602	0.004	0	0	0	14
PL.65741	PD.9583	B	6 A (CWC)	7.17Y	119.4	0.04	5.57	10.83	8	76	17	98	0.02	0.0	8.704	0.103	17	4	2	14
PL.64603	PL.65741	B	6 A (CWC)	7.17Y	119.4	0.00	5.57	0.30	0	2	0	100	0.00	0.0	8.753	0.049	2	0	1	1
PL.64604	PL.65741	B	6 A (CWC)	7.16Y	119.4	0.01	5.59	8.15	6	57	13	97	0.01	0.0	8.744	0.039	0	0	0	11
PL.48418	PL.64604	B	6 A (CWC)	7.16Y	119.4	0.01	5.60	5.47	4	38	9	97	0.00	0.0	8.772	0.028	0	0	0	9
PL.48656	PL.48418	B	6 A (CWC)	7.16Y	119.4	0.01	5.61	5.47	4	38	9	97	0.00	0.0	8.825	0.053	4	1	1	9
PL.48658	PL.48656	B	6 A (CWC)	7.16Y	119.4	0.01	5.62	4.92	4	34	8	97	0.00	0.0	8.887	0.062	0	0	0	8
PL.47649	PL.48658	B	6 A (CWC)	7.16Y	119.4	0.00	5.62	2.20	2	15	3	98	0.00	0.0	8.928	0.041	15	3	3	3
PL.48662	PL.48658	B	6 A (CWC)	7.16Y	119.4	0.01	5.63	2.72	2	19	4	98	0.00	0.0	8.934	0.046	1	0	1	5
PL.48663	PL.48662	B	6 A (CWC)	7.16Y	119.4	0.01	5.63	2.58	2	18	4	98	0.00	0.0	8.986	0.053	7	1	2	4
PL.48664	PL.48663	B	6 A (CWC)	7.16Y	119.4	0.00	5.64	1.65	1	12	3	97	0.00	0.0	9.036	0.049	3	1	1	2
PL.47393	PL.48664	B	#4 ACSR	7.16Y	119.4	0.00	5.64	0.00	0	0	0	100	0.00	0.0	9.156	0.120	0	0	0	0
PL.48665	PL.48664	B	6 A (CWC)	7.16Y	119.4	0.00	5.64	1.29	1	9	2	98	0.00	0.0	9.085	0.050	9	2	1	1
PL.47151	PL.64604	B	#1/0 ACSR	7.16Y	119.4	0.00	5.59	2.68	1	19	4	98	0.00	0.0	8.788	0.045	19	4	2	2
PL.47910	PL.63442	B	6 A (CWC)	7.22Y	120.3	0.00	4.68	1.53	1	11	2	98	0.00	0.0	8.338	0.093	11	2	1	1
PL.48649	PL.48648	ABC	#3/0 ACSR	7.26Y	121.1	0.00	3.94	1.09	0	23	6	97	0.00	0.0	7.449	0.055	0	0	1	3
PL.60089	PL.48649	A	#1/0 ACSR	7.26Y	121.1	0.00	3.94	2.55	1	18	4	98	0.00	0.0	7.485	0.036	18	4	1	1

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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.48650	PL.48649	ABC	#3/0 ACSR	7.26Y	121.1	0.00	3.94	0.23	0	5	2	93	0.00	0.0	7.482	0.033	5	2	1	1
PL.57742	PL.48648	C	#1/0 ACSR	7.26Y	121.1	0.00	3.94	0.79	0	6	1	99	0.00	0.0	7.442	0.049	6	1	1	1
PL.51562	PL.51561	B	#4 ACSR	7.27Y	121.2	0.00	3.85	0.28	0	2	0	100	0.00	0.0	7.260	0.001	0	0	0	1
PD.7458	PL.51562	B	50QA	7.27Y	121.2	0.00	3.85	0.28	1	2	0	100	0.00	0.0	7.260	0.001	0	0	0	1
PL.47878	PD.7458	B	#4 ACSR	7.27Y	121.2	0.00	3.85	0.28	0	2	0	100	0.00	0.0	7.277	0.017	2	0	1	1
PL.47763	PL.47668	C	6 A (CWC)	7.28Y	121.4	0.00	3.60	1.97	1	14	3	98	0.00	0.0	6.912	0.001	0	0	0	4
PD.7455	PL.47763	C	50QA	7.28Y	121.4	0.00	3.60	1.97	4	14	3	98	0.00	0.0	6.912	0.001	0	0	0	4
PL.47764	PD.7455	C	6 A (CWC)	7.28Y	121.4	0.00	3.60	1.97	1	14	3	98	0.00	0.0	6.913	0.001	0	0	0	4
PL.46883	PL.47764	C	6 A (CWC)	7.28Y	121.4	0.00	3.61	1.97	1	14	3	98	0.00	0.0	6.959	0.046	0	0	1	4
PL.46884	PL.46883	C	6 A (CWC)	7.28Y	121.4	0.00	3.61	1.97	1	14	3	98	0.00	0.0	7.001	0.042	14	3	3	3
PL.47670	PL.47668	A	6 A (CWC)	7.28Y	121.4	0.00	3.60	2.76	2	20	4	98	0.00	0.0	6.912	0.001	0	0	0	4
PD.7456	PL.47670	A	50QA	7.28Y	121.4	0.00	3.60	2.76	6	20	4	98	0.00	0.0	6.912	0.001	0	0	0	4
PL.47765	PD.7456	A	6 A (CWC)	7.28Y	121.4	0.00	3.61	2.76	2	20	4	98	0.00	0.0	6.966	0.054	15	3	2	4
PL.47766	PL.47765	A	6 A (CWC)	7.28Y	121.4	0.00	3.61	0.66	0	5	1	98	0.00	0.0	7.029	0.063	5	1	2	2
PL.47139	PL.47273	A	#4 ACSR	7.29Y	121.5	0.00	3.52	0.27	0	2	0	100	0.00	0.0	6.797	0.002	0	0	0	1
PD.7492	PL.47139	A	50QA	7.29Y	121.5	0.00	3.52	0.27	1	2	0	100	0.00	0.0	6.797	0.002	0	0	0	1
PL.47140	PD.7492	A	#4 ACSR	7.29Y	121.5	0.00	3.52	0.27	0	2	0	100	0.00	0.0	6.841	0.044	0	0	0	1
PL.47141	PL.47140	A	#4 ACSR	7.29Y	121.5	0.00	3.52	0.27	0	2	0	100	0.00	0.0	6.883	0.043	0	0	0	1
PL.47667	PL.47141	A	#4 ACSR	7.29Y	121.5	0.00	3.52	0.27	0	2	0	100	0.00	0.0	6.907	0.024	2	0	1	1
PL.47349	PL.48580	C	#4 ACSR	7.32Y	121.9	0.00	3.05	3.09	2	22	5	98	0.00	0.0	6.139	0.001	0	0	0	3
PD.7321	PL.47349	C	50QA	7.32Y	121.9	0.00	3.05	3.09	6	22	5	98	0.00	0.0	6.139	0.001	0	0	0	3
PL.47350	PD.7321	C	#4 ACSR	7.32Y	121.9	0.00	3.06	3.09	2	22	5	98	0.00	0.0	6.189	0.050	22	5	3	3
PL.48062	PL.47350	C	#4 ACSR	7.32Y	121.9	0.00	3.06	0.00	0	0	0	100	0.00	0.0	6.242	0.053	0	0	0	0
PL.48064	PL.48066	A	6 A (CWC)	7.32Y	122.0	0.00	3.00	3.64	3	26	6	97	0.00	0.0	6.049	0.001	0	0	0	3
PD.7528	PL.48064	A	50QA	7.32Y	122.0	0.00	3.00	3.64	7	26	6	97	0.00	0.0	6.049	0.001	0	0	0	3
PL.48065	PD.7528	A	6 A (CWC)	7.32Y	122.0	0.01	3.01	3.64	3	26	6	97	0.00	0.0	6.111	0.062	20	5	2	3
PL.48063	PL.48065	A	6 A (CWC)	7.32Y	122.0	0.00	3.01	0.78	1	6	1	99	0.00	0.0	6.211	0.100	6	1	1	1
PL.47767	PL.48065	A	6 A (CWC)	7.32Y	122.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	6.203	0.092	0	0	0	0
PL.48067	PL.48070	ABC	336 MCM AC	7.33Y	122.1	0.00	2.88	0.00	0	0	0	100	0.00	0.0	5.912	0.080	0	0	0	0
PL.48071	PL.48073	A	#4 ACSR	7.33Y	122.2	0.00	2.83	9.19	7	61	29	90	0.00	0.0	5.741	0.004	0	0	0	3
PD.7570	PL.48071	A	25QA	7.33Y	122.2	0.00	2.83	9.19	37	61	29	90	0.00	0.0	5.741	0.004	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: Brodhead

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.48072	PD.7570	A	#4 ACSR	7.33Y	122.2	0.01	2.84	9.19	7	61	29	90	0.00	0.0	5.775	0.034	61	29	3	3
PL.47256	PL.47258	C	#4 ACSR	7.35Y	122.4	0.00	2.58	1.17	1	8	2	97	0.00	0.0	5.338	0.003	0	0	0	1
PD.7383	PL.47256	C	50QA	7.35Y	122.4	0.00	2.58	1.17	2	8	2	97	0.00	0.0	5.338	0.003	0	0	0	1
PL.47257	PD.7383	C	#4 ACSR	7.34Y	122.4	0.00	2.58	1.17	1	8	2	97	0.00	0.0	5.351	0.013	8	2	1	1
PL.47263	PL.47855	C	#4 ACSR	7.36Y	122.6	0.00	2.38	2.00	2	14	3	98	0.00	0.0	5.020	0.005	0	0	0	2
PD.7452	PL.47263	C	60QA	7.36Y	122.6	0.00	2.38	2.00	3	14	3	98	0.00	0.0	5.020	0.005	0	0	0	2
PL.47264	PD.7452	C	#4 ACSR	7.36Y	122.6	0.00	2.39	2.00	2	14	3	98	0.00	0.0	5.072	0.051	0	0	0	2
PL.47852	PL.47264	C	#4 ACSR	7.36Y	122.6	0.00	2.39	2.00	2	14	3	98	0.00	0.0	5.120	0.048	4	1	1	2
PL.47853	PL.47852	C	#4 ACSR	7.36Y	122.6	0.01	2.40	1.49	1	11	2	98	0.00	0.0	5.289	0.170	11	2	1	1
PL.47858	PL.48704	ABC	336 MCM AC	7.36Y	122.6	0.05	2.35	72.14	14	1476	600	93	0.33	0.0	4.973	0.075	0	0	0	93
PL.56638	PL.47858	A	#2 ACSR	7.36Y	122.6	0.00	2.35	0.74	0	5	1	98	0.00	0.0	4.977	0.004	0	0	0	1
PD.8324	PL.56638	A	10QA	7.36Y	122.6	0.00	2.35	0.74	0	5	1	98	0.00	0.0	4.977	0.004	0	0	0	1
PL.56639	PD.8324	A	#2 ACSR	7.36Y	122.6	0.00	2.35	0.74	0	5	1	98	0.00	0.0	5.009	0.032	5	1	1	1
PL.47859	PL.47858	ABC	336 MCM AC	7.35Y	122.5	0.11	2.47	71.36	14	1459	595	93	0.81	0.1	5.164	0.191	14	3	5	91
PL.47860	PL.47859	ABC	336 MCM AC	7.35Y	122.5	0.04	2.51	70.71	14	1444	590	93	0.31	0.0	5.239	0.075	0	0	0	86
PL.47806	PL.47860	ABC	336 MCM AC	7.34Y	122.4	0.08	2.59	69.54	13	1419	581	93	0.56	0.0	5.376	0.137	0	0	0	84
PL.47807	PL.47806	ABC	336 MCM AC	7.34Y	122.3	0.09	2.68	69.54	13	1418	579	93	0.63	0.0	5.529	0.154	0	0	0	84
PL.47808	PL.47807	A	6 A (CWC)	7.34Y	122.3	0.00	2.69	1.60	1	11	3	96	0.00	0.0	5.533	0.004	0	0	0	3
PD.7515	PL.47808	A	60QA	7.34Y	122.3	0.00	2.69	1.60	3	11	3	96	0.00	0.0	5.533	0.004	0	0	0	3
PL.59005	PD.7515	A	6 A (CWC)	7.34Y	122.3	0.01	2.69	1.60	1	11	3	96	0.00	0.0	5.604	0.071	0	0	0	3
PL.59006	PL.59005	A	6 A (CWC)	7.34Y	122.3	0.00	2.69	1.60	1	11	3	96	0.00	0.0	5.625	0.021	11	3	2	3
PL.47809	PL.59006	A	6 A (CWC)	7.34Y	122.3	0.00	2.69	0.03	0	0	0	100	0.00	0.0	5.667	0.042	0	0	1	1
PL.46749	PL.47807	ABC	336 MCM AC	7.34Y	122.3	0.03	2.72	69.01	13	1406	575	93	0.23	0.0	5.586	0.056	13	3	1	81
PL.46750	PL.46749	ABC	336 MCM AC	7.33Y	122.1	0.17	2.89	68.43	13	1393	572	93	1.17	0.1	5.883	0.298	10	2	2	80
PL.48076	PL.46750	C	#4 ACSR	7.33Y	122.1	0.00	2.89	10.93	8	78	17	98	0.00	0.0	5.885	0.001	0	0	0	12
PD.7605	PL.48076	C	70L	7.33Y	122.1	0.00	2.89	10.93	16	78	17	98	0.00	0.0	5.885	0.001	0	0	0	12
PL.48077	PD.7605	C	#4 ACSR	7.33Y	122.1	0.01	2.90	10.93	8	78	17	98	0.01	0.0	5.912	0.028	0	0	0	12
PL.48078	PL.48077	C	#4 ACSR	7.33Y	122.1	0.00	2.91	1.83	1	13	3	97	0.00	0.0	5.967	0.055	13	3	2	2
PL.57353	PL.48077	C	#4 ACSR	7.32Y	122.0	0.07	2.97	9.09	7	65	14	98	0.03	0.1	6.084	0.172	0	0	0	10
PL.57352	PL.57353	C	#4 ACSR	7.32Y	122.0	0.00	2.97	0.37	0	3	1	95	0.00	0.0	6.148	0.064	3	1	1	1
PL.57355	PL.57353	C	#4 ACSR	7.32Y	122.0	0.02	2.99	4.85	4	35	8	97	0.01	0.0	6.193	0.108	7	2	1	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: Brodhead

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.57350	PL.57355	C	#4 ACSR	7.32Y	122.0	0.00	3.00	2.01	2	14	3	98	0.00	0.0	6.299	0.106	14	3	1	1
PL.57927	PL.57355	C	#4 ACSR	7.32Y	122.0	0.00	2.99	1.84	1	13	3	97	0.00	0.0	6.220	0.027	13	3	1	1
PL.57351	PL.57353	C	#4 ACSR	7.32Y	122.0	0.00	2.97	1.02	1	7	2	96	0.00	0.0	6.154	0.070	7	2	2	2
PL.57354	PL.57353	C	#4 ACSR	7.32Y	122.0	0.02	2.99	2.85	2	20	5	97	0.00	0.0	6.265	0.181	0	0	0	4
PL.47911	PL.57354	C	#4 ACSR	7.32Y	122.0	0.00	3.00	1.14	1	8	2	97	0.00	0.0	6.337	0.071	8	2	1	1
PL.47721	PL.57354	C	#4 ACSR	7.32Y	122.0	0.00	3.00	0.47	0	3	1	95	0.00	0.0	6.361	0.096	3	1	1	1
PL.46751	PL.57354	C	#4 ACSR	7.32Y	122.0	0.00	3.00	1.23	1	9	2	98	0.00	0.0	6.320	0.055	0	0	1	2
PL.46892	PL.46751	C	#4 ACSR	7.32Y	122.0	0.02	3.02	1.23	1	9	2	98	0.00	0.0	6.675	0.355	0	0	0	1
PL.47414	PL.46892	C	#4 ACSR	7.32Y	122.0	0.00	3.02	1.23	1	9	2	98	0.00	0.0	6.788	0.114	9	2	1	1
PL.48083	PL.46750	ABC	336 MCM AC	7.32Y	122.1	0.03	2.92	64.37	12	1304	550	92	0.18	0.0	5.936	0.052	2	1	1	66
PL.61955	PL.48083	ABC	336 MCM AC	7.32Y	122.1	0.02	2.94	64.27	12	1301	549	92	0.13	0.0	5.974	0.038	0	0	0	65
PL.65732	PL.61955	ABC	336 MCM AC	7.32Y	122.1	0.01	2.95	64.27	12	1301	548	92	0.06	0.0	5.992	0.019	0	0	0	65
PL.65734	PL.65732	C	#1/0 ACSR	7.32Y	122.0	0.00	2.95	14.98	7	107	24	98	0.00	0.0	5.996	0.003	0	0	0	23
PD.9581	PL.65734	C	20T	7.32Y	122.0	0.00	2.95	14.98	0	107	24	98	0.00	0.0	5.996	0.003	0	0	0	23
PL.65735	PD.9581	C	#1/0 ACSR	7.32Y	122.0	0.02	2.97	14.98	7	107	24	98	0.01	0.0	6.049	0.054	7	2	1	23
PL.48080	PL.65735	C	#4 ACSR	7.32Y	122.0	0.02	2.99	12.86	10	92	20	98	0.01	0.0	6.084	0.034	0	0	0	21
PL.48082	PL.48080	C	#4 ACSR	7.32Y	122.0	0.04	3.02	12.86	10	92	20	98	0.02	0.0	6.146	0.062	1	0	2	21
PL.48081	PL.48082	C	#4 ACSR	7.32Y	122.0	0.02	3.05	12.06	9	86	19	98	0.01	0.0	6.188	0.042	0	0	0	18
PL.48162	PL.48081	C	#4 ACSR	7.32Y	122.0	0.00	3.05	1.16	1	8	2	97	0.00	0.0	6.290	0.101	8	2	1	1
PL.48721	PL.48081	C	#4 ACSR	7.32Y	121.9	0.02	3.07	9.86	8	70	16	97	0.01	0.0	6.241	0.052	13	3	3	14
PL.52683	PL.48721	C	#4 ACSR	7.32Y	121.9	0.00	3.07	2.37	2	17	4	97	0.00	0.0	6.255	0.015	17	4	2	2
PL.48722	PL.48721	C	#4 ACSR	7.32Y	121.9	0.01	3.08	5.72	4	41	9	98	0.00	0.0	6.301	0.060	8	2	3	9
PL.48723	PL.48722	C	#4 ACSR	7.31Y	121.9	0.01	3.09	4.58	4	33	7	98	0.00	0.0	6.369	0.068	10	2	1	6
PL.48724	PL.48723	C	#4 ACSR	7.31Y	121.9	0.01	3.10	3.20	2	23	5	98	0.00	0.0	6.428	0.059	10	2	2	5
PL.64661	PL.48724	C	#4 ACSR	7.31Y	121.9	0.00	3.10	1.44	1	10	2	98	0.00	0.0	6.428	0.000	0	0	0	1
PL.64662	PL.64661	C	#4 ACSR	7.31Y	121.9	0.00	3.10	1.44	1	10	2	98	0.00	0.0	6.458	0.029	10	2	1	1
PL.48725	PL.48724	C	#4 ACSR	7.31Y	121.9	0.00	3.10	0.41	0	3	1	95	0.00	0.0	6.466	0.038	3	1	2	2
PL.46943	PL.48081	C	#4 ACSR	7.32Y	122.0	0.00	3.05	0.06	0	0	0	100	0.00	0.0	6.243	0.055	0	0	1	1
PL.59583	PL.48081	C	#4 ACSR	7.32Y	122.0	0.00	3.05	0.98	1	7	2	96	0.00	0.0	6.247	0.058	0	0	1	2
PL.59582	PL.59583	C	#4 ACSR	7.32Y	122.0	0.00	3.05	0.98	1	7	2	96	0.00	0.0	6.287	0.040	7	2	1	1
PL.59584	PL.59583	C	#4 ACSR	7.32Y	122.0	0.00	3.05	0.00	0	0	0	100	0.00	0.0	6.352	0.106	0	0	0	0

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Balanced Voltage Drop Report
Source: Brodhead

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.47537	PL.48082	C	#4 ACSR	7.32Y	122.0	0.00	3.02	0.69	1	5	1	98	0.00	0.0	6.193	0.047	5	1	1	1
PL.47434	PL.65735	C	#4 ACSR	7.32Y	122.0	0.00	2.97	1.07	1	8	2	97	0.00	0.0	6.076	0.026	8	2	1	1
PL.65733	PL.65732	ABC	336 MCM AC	7.32Y	121.9	0.12	3.07	59.36	11	1194	524	92	0.72	0.1	6.235	0.243	3	1	1	42
PL.61970	PL.65733	ABC	336 MCM AC	7.31Y	121.9	0.03	3.10	59.23	11	1190	522	92	0.17	0.0	6.294	0.059	7	2	1	41
PL.48728	PL.61970	C	#4 ACSR	7.31Y	121.9	0.00	3.11	4.04	3	29	6	98	0.00	0.0	6.295	0.001	0	0	0	7
PD.7580	PL.48728	C	60QA	7.31Y	121.9	0.00	3.11	4.04	7	29	6	98	0.00	0.0	6.295	0.001	0	0	0	7
PL.48729	PD.7580	C	#4 ACSR	7.31Y	121.9	0.00	3.11	4.04	3	29	6	98	0.00	0.0	6.335	0.040	29	6	7	7
PL.48727	PL.48729	C	#4 ACSR	7.31Y	121.9	0.00	3.11	0.00	0	0	0	100	0.00	0.0	6.355	0.020	0	0	0	0
PL.48726	PL.61970	ABC	336 MCM AC	7.31Y	121.9	0.02	3.12	57.60	11	1155	514	91	0.09	0.0	6.325	0.031	0	0	0	33
PL.48185	PL.48726	ABC	336 MCM AC	7.31Y	121.8	0.03	3.15	57.60	11	1154	514	91	0.19	0.0	6.394	0.069	0	0	0	33
PD.7184-A	PL.48185	ABC	Closed	7.31Y	121.8	0.00	3.15	57.60	0	1154	513	91	0.00	0.0	6.394	0.069	0	0	0	33
PD.7184-B	PD.7184-A	ABC	Closed	7.31Y	121.8	0.00	3.15	57.60	0	1154	513	91	0.00	0.0	6.394	0.069	0	0	0	33
PL.47782	PD.7184-B	ABC	336 MCM AC	7.31Y	121.8	0.02	3.18	57.60	11	1154	513	91	0.11	0.0	6.435	0.041	0	0	0	33
PL.48736	PL.47782	ABC	336 MCM AC	7.31Y	121.8	0.00	3.18	6.19	1	122	59	90	0.00	0.0	6.482	0.047	0	0	0	2
PL.48737	PL.48736	A	#4 ACSR	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	6.514	0.032	0	0	0	0
PD.7545	PL.48737	A	50QA	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	6.514	0.032	0	0	0	0
PL.48738	PD.7545	A	#4 ACSR	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	6.516	0.002	0	0	0	0
PL.48739	PL.48738	A	#4 ACSR	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	6.655	0.139	0	0	0	0
PL.59034	PL.48736	ABC	336 MCM AC	7.31Y	121.8	0.00	3.18	6.19	1	122	59	90	0.00	0.0	6.538	0.056	0	0	0	2
PL.59032	PL.59034	A	#4 ACSR	7.31Y	121.8	0.00	3.18	0.01	0	0	0	100	0.00	0.0	6.550	0.012	0	0	1	1
PL.59035	PL.59034	ABC	336 MCM AC	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	6.666	0.129	0	0	0	0
PL.59033	PL.59034	ABC	1/0 AL URD	7.31Y	121.8	0.00	3.18	6.18	4	122	59	90	0.00	0.0	6.545	0.007	122	59	1	1
PL.46897	PL.47782	ABC	336 MCM AC	7.31Y	121.8	0.02	3.19	51.41	10	1032	454	92	0.08	0.0	6.469	0.034	0	0	0	31
PL.47541	PL.46897	A	#4 ACSR	7.31Y	121.8	0.03	3.22	14.04	11	100	22	98	0.02	0.0	6.517	0.048	0	0	0	19
PL.48732	PL.47541	A	#4 ACSR	7.31Y	121.8	0.00	3.22	14.04	11	100	22	98	0.00	0.0	6.518	0.001	0	0	0	19
PD.7604	PL.48732	A	35L	7.31Y	121.8	0.00	3.22	14.04	40	100	22	98	0.00	0.0	6.518	0.001	0	0	0	19
PL.48733	PD.7604	A	#4 ACSR	7.31Y	121.8	0.01	3.23	14.04	11	100	22	98	0.00	0.0	6.531	0.012	17	4	3	19
PL.48730	PL.48733	A	#4 ACSR	7.31Y	121.8	0.01	3.24	11.72	9	84	19	98	0.01	0.0	6.553	0.023	5	1	1	16
PL.48731	PL.48730	A	#4 ACSR	7.30Y	121.6	0.17	3.41	11.08	9	79	18	98	0.10	0.1	6.912	0.359	5	1	1	15
PL.47457	PL.48731	A	#4 ACSR	7.29Y	121.6	0.01	3.42	2.27	2	16	4	97	0.00	0.0	7.002	0.090	0	0	0	6
PL.47458	PL.47457	A	#4 ACSR	7.29Y	121.6	0.00	3.42	0.52	0	4	1	97	0.00	0.0	7.026	0.023	4	1	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: Brodhead

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.47538	PL.47457	A	#4 ACSR	7.29Y	121.6	0.00	3.42	1.75	1	12	3	97	0.00	0.0	7.055	0.053	12	3	2	2
PL.48173	PL.48731	A	#4 ACSR	7.29Y	121.5	0.07	3.48	8.07	6	57	13	97	0.03	0.1	7.122	0.210	0	0	0	8
PL.46198	PL.48173	A	#4 ACSR	7.29Y	121.5	0.00	3.48	1.41	1	10	2	98	0.00	0.0	7.189	0.067	10	2	1	1
PL.48174	PL.48173	A	#4 ACSR	7.29Y	121.5	0.02	3.50	6.65	5	47	11	97	0.01	0.0	7.191	0.070	0	0	0	7
PL.48190	PL.48174	A	#4 ACSR	7.29Y	121.5	0.00	3.50	6.65	5	47	11	97	0.00	0.0	7.192	0.000	3	1	1	7
PL.46893	PL.48190	A	#4 ACSR	7.29Y	121.5	0.00	3.50	0.62	0	4	1	97	0.00	0.0	7.254	0.062	4	1	1	1
PL.48255	PL.48190	A	#1/0 ACSR	7.29Y	121.5	0.00	3.50	1.42	1	10	2	98	0.00	0.0	7.192	0.001	0	0	0	1
PL.48256	PL.48255	A	#1/0 ACSR	7.29Y	121.5	0.00	3.50	1.42	1	10	2	98	0.00	0.0	7.305	0.113	10	2	1	1
PL.64597	PL.48190	A	#4 ACSR	7.29Y	121.5	0.02	3.52	4.20	3	30	7	97	0.00	0.0	7.287	0.095	0	0	0	4
PL.64598	PL.64597	A	#4 ACSR	7.29Y	121.5	0.00	3.52	4.20	3	30	7	97	0.00	0.0	7.287	0.000	0	0	1	4
PL.64599	PL.64598	A	#4 ACSR	7.29Y	121.5	0.01	3.53	4.17	3	30	7	97	0.00	0.0	7.340	0.052	8	2	1	3
PL.46933	PL.64599	A	#4 ACSR	7.29Y	121.5	0.00	3.53	3.06	2	22	5	98	0.00	0.0	7.402	0.062	22	5	2	2
PL.46934	PL.46933	A	#4 ACSR	7.29Y	121.5	0.00	3.53	0.00	0	0	0	100	0.00	0.0	7.449	0.047	0	0	0	0
PL.46931	PL.46934	A	#4 ACSR	7.29Y	121.5	0.00	3.53	0.00	0	0	0	100	0.00	0.0	7.543	0.094	0	0	0	0
PL.48734	PL.46897	ABC	336 MCM AC	7.31Y	121.8	0.03	3.22	46.83	9	932	431	91	0.12	0.0	6.533	0.064	19	4	3	12
PL.48735	PL.48734	ABC	336 MCM AC	7.30Y	121.7	0.03	3.25	45.98	9	913	427	91	0.15	0.0	6.617	0.084	0	0	0	9
PL.58950	PL.48735	ABC	336 MCM AC	7.30Y	121.7	0.00	3.25	0.16	0	3	1	95	0.00	0.0	6.625	0.008	0	0	0	2
PL.58899	PL.58950	ABC	336 MCM AC	7.30Y	121.7	0.00	3.25	0.00	0	0	0	100	0.00	0.0	6.679	0.054	0	0	0	0
PL.58900	PL.58899	ABC	336 MCM AC	7.30Y	121.7	0.00	3.25	0.00	0	0	0	100	0.00	0.0	6.717	0.038	0	0	0	0
PL.58897	PL.58900	ABC	336 MCM AC	7.30Y	121.7	0.00	3.25	0.00	0	0	0	100	0.00	0.0	6.719	0.002	0	0	0	0
PD.8750-A	PL.58897	ABC	Open	7.30Y	121.7	0.00	3.25	0.00	0	0	0	100	0.00	0.0	6.719	0.002	0	0	0	0
CP.96	PL.58899	ABC	Cap (300)	7.30Y	121.7	0.00	3.25	0.00	0	0	0	100	0.00	0.0	6.679	0.002	0	0	0	0
PL.58896	PL.58950	C	#4 ACSR	7.30Y	121.7	0.00	3.25	0.48	0	3	1	95	0.00	0.0	6.625	0.000	0	0	0	2
PD.7172	PL.58896	C	60QA	7.30Y	121.7	0.00	3.25	0.48	1	3	1	95	0.00	0.0	6.625	0.000	0	0	0	2
PL.37505	PD.7172	C	#4 ACSR	7.30Y	121.7	0.00	3.25	0.48	0	3	1	95	0.00	0.0	6.731	0.106	3	1	2	2
PL.48740	PL.48735	ABC	336 MCM AC	7.30Y	121.7	0.00	3.25	45.82	9	909	426	91	0.01	0.0	6.627	0.010	853	413	1	7
PL.48741	PL.48740	ABC	336 MCM AC	7.30Y	121.7	0.00	3.25	2.62	1	56	12	98	0.00	0.0	6.673	0.046	0	0	0	6
PD.7534	PL.48741	ABC	60QA	7.30Y	121.7	0.00	3.25	2.62	4	56	12	98	0.00	0.0	6.673	0.046	0	0	0	6
PL.48767	PD.7534	ABC	336 MCM AC	7.30Y	121.7	0.00	3.25	2.62	1	56	12	98	0.00	0.0	6.709	0.036	0	0	0	6
PL.57850	PL.48767	ABC	336 MCM AC	7.30Y	121.7	0.00	3.25	2.62	1	56	12	98	0.00	0.0	6.716	0.007	0	0	0	6
PL.57852	PL.57850	ABC	1/0 AL URD	7.30Y	121.7	0.00	3.25	0.00	0	0	0	100	0.00	0.0	6.717	0.001	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: Brodhead

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.7388	PL.57852	ABC	60QA	7.30Y	121.7	0.00	3.25	0.00	0	0	0	100	0.00	0.0	6.717	0.001	0	0	0	0
PL.47967	PD.7388	ABC	1/0 AL URD	7.30Y	121.7	0.00	3.25	0.00	0	0	0	100	0.00	0.0	6.747	0.030	0	0	0	0
PL.57851	PL.57850	ABC	336 MCM AC	7.30Y	121.7	0.00	3.26	2.62	1	56	12	98	0.00	0.0	6.754	0.038	0	0	0	6
PL.47972	PL.57851	ABC	336 MCM AC	7.30Y	121.7	0.00	3.26	1.74	0	37	8	98	0.00	0.0	6.786	0.032	0	0	0	5
PL.47973	PL.47972	ABC	336 MCM AC	7.30Y	121.7	0.00	3.26	1.74	0	37	8	98	0.00	0.0	6.937	0.151	0	0	0	5
PL.61350	PL.47973	ABC	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	6.938	0.001	0	0	0	0
PD.9149	PL.61350	ABC	60QA	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	6.938	0.001	0	0	0	0
PL.61351	PD.9149	ABC	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	6.966	0.028	0	0	0	0
PL.61352	PL.61351	ABC	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	6.996	0.030	0	0	0	0
PL.61773	PL.61352	ABC	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.092	0.096	0	0	0	0
PL.48243	PL.61773	ABC	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.177	0.085	0	0	0	0
PL.51815	PL.48243	ABC	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.251	0.073	0	0	0	0
PL.51814	PL.51815	ABC	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.273	0.022	0	0	0	0
PL.51816	PL.51815	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.319	0.069	0	0	0	0
PL.48838	PL.51816	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.355	0.035	0	0	0	0
PL.48840	PL.48838	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.355	0.001	0	0	0	0
PL.48213	PL.48840	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.441	0.086	0	0	0	0
PL.48214	PL.48213	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.478	0.037	0	0	0	0
PL.61357	PL.48214	A	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.539	0.061	0	0	0	0
PL.61358	PL.61357	A	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.564	0.024	0	0	0	0
PL.61356	PL.61358	A	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.642	0.078	0	0	0	0
PL.48839	PL.48838	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.388	0.034	0	0	0	0
PL.48841	PL.48839	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.422	0.033	0	0	0	0
PL.47547	PL.48841	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.484	0.062	0	0	0	0
PL.48212	PL.48841	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.498	0.076	0	0	0	0
PL.48249	PL.48838	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.381	0.026	0	0	0	0
PL.48250	PL.48249	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.404	0.023	0	0	0	0
PL.48245	PL.48250	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.434	0.030	0	0	0	0
PL.61353	PL.61351	A	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	6.980	0.013	0	0	0	0
PL.61354	PL.61353	A	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.020	0.041	0	0	0	0
PL.61355	PL.61354	A	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.021	0.001	0	0	0	0

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Balanced Voltage Drop Report
Source: Brodhead

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.62314	PL.47973	ABC	336 MCM AC	7.30Y	121.7	0.00	3.26	1.74	0	37	8	98	0.00	0.0	7.016	0.079	0	0	0	5
PL.62083	PL.62314	ABC	336 MCM AC	7.30Y	121.7	0.00	3.26	1.74	0	37	8	98	0.00	0.0	7.053	0.036	0	0	0	5
PL.47975	PL.62083	ABC	336 MCM AC	7.30Y	121.7	0.00	3.26	1.74	0	37	8	98	0.00	0.0	7.096	0.044	0	0	0	5
PL.47976	PL.47975	ABC	336 MCM AC	7.30Y	121.7	0.00	3.26	1.74	0	37	8	98	0.00	0.0	7.139	0.043	0	0	0	5
PL.47981	PL.47976	ABC	336 MCM AC	7.30Y	121.7	0.00	3.26	1.74	0	37	8	98	0.00	0.0	7.178	0.039	0	0	0	5
PL.48817	PL.47981	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.179	0.001	0	0	0	0
PD.7324	PL.48817	C	60QA	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.179	0.001	0	0	0	0
PL.48818	PD.7324	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.227	0.049	0	0	0	0
PL.48819	PL.48818	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.248	0.021	0	0	0	0
PL.47511	PL.48819	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.263	0.015	0	0	0	0
PL.47512	PL.47511	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.281	0.018	0	0	0	0
PL.47513	PL.47512	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.296	0.015	0	0	0	0
PL.48191	PL.47513	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.305	0.009	0	0	0	0
PL.48192	PL.48191	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.321	0.015	0	0	0	0
PL.48193	PL.48192	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.345	0.024	0	0	0	0
PL.48194	PL.48193	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.388	0.043	0	0	0	0
PL.47982	PL.47981	ABC	336 MCM AC	7.30Y	121.7	0.00	3.26	1.74	0	37	8	98	0.00	0.0	7.185	0.007	0	0	0	5
PL.61952	PL.47982	ABC	336 MCM AC	7.30Y	121.7	0.00	3.26	1.74	0	37	8	98	0.00	0.0	7.210	0.026	13	3	2	5
PL.61954	PL.61952	ABC	336 MCM AC	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.213	0.002	0	0	0	0
PL.61953	PL.61952	A	6 A (CWC)	7.30Y	121.7	0.00	3.26	3.41	2	24	5	98	0.00	0.0	7.224	0.014	0	0	0	3
PD.7389	PL.61953	A	60QA	7.30Y	121.7	0.00	3.26	3.41	6	24	5	98	0.00	0.0	7.224	0.014	0	0	0	3
PL.48824	PD.7389	A	6 A (CWC)	7.30Y	121.7	0.01	3.28	3.41	2	24	5	98	0.00	0.0	7.351	0.127	11	3	2	3
PL.48825	PL.48824	A	6 A (CWC)	7.30Y	121.7	0.00	3.28	1.80	1	13	3	97	0.00	0.0	7.426	0.075	13	3	1	1
PL.47979	PL.47982	ABC	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.185	0.001	0	0	0	0
PD.7500	PL.47979	ABC	60QA	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.185	0.001	0	0	0	0
PL.47980	PD.7500	ABC	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.199	0.013	0	0	0	0
PL.47978	PL.47975	ABC	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.097	0.001	0	0	0	0
PD.7499	PL.47978	ABC	60QA	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.097	0.001	0	0	0	0
PL.47977	PD.7499	ABC	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.119	0.021	0	0	0	0
PL.62084	PL.62314	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.017	0.001	0	0	0	0
PD.7482	PL.62084	C	50QA	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.017	0.001	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: Brodhead

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.47974	PD.7482	C	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	7.083	0.066	0	0	0	0
PL.47970	PL.57851	B	#4 ACSR	7.30Y	121.7	0.00	3.26	2.64	2	19	4	98	0.00	0.0	6.756	0.001	0	0	0	1
PD.7535	PL.47970	B	60QA	7.30Y	121.7	0.00	3.26	2.64	4	19	4	98	0.00	0.0	6.756	0.001	0	0	0	1
PL.47971	PD.7535	B	#4 ACSR	7.30Y	121.7	0.00	3.26	2.64	2	19	4	98	0.00	0.0	6.789	0.033	0	0	0	1
PL.47968	PL.47971	B	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	6.800	0.011	0	0	0	0
PL.47969	PL.47968	B	#2 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	6.835	0.036	0	0	0	0
PL.47966	PL.47971	B	#4 ACSR	7.30Y	121.7	0.00	3.26	2.64	2	19	4	98	0.00	0.0	6.810	0.020	19	4	1	1
PL.47173	PD.7534	ABC	1/0 AL URD	7.30Y	121.7	0.00	3.25	0.00	0	0	0	100	0.00	0.0	6.685	0.012	0	0	0	0
PL.47759	PL.46749	A	#4 ACSR	7.34Y	122.3	0.00	2.72	0.00	0	0	0	100	0.00	0.0	5.614	0.029	0	0	0	0
PL.47231	PL.47860	B	#1/0 ACSR	7.35Y	122.5	0.00	2.51	3.51	2	24	9	94	0.00	0.0	5.242	0.003	0	0	0	2
PD.7579	PL.47231	B	40QA	7.35Y	122.5	0.00	2.51	3.51	9	24	9	94	0.00	0.0	5.242	0.003	0	0	0	2
PL.47232	PD.7579	B	#1/0 ACSR	7.35Y	122.5	0.00	2.52	3.51	2	24	9	94	0.00	0.0	5.277	0.035	24	9	2	2
PL.48171	PL.47858	C	#2 ACSR	7.36Y	122.6	0.00	2.36	1.66	1	12	3	97	0.00	0.0	5.002	0.029	12	3	1	1
PL.48705	PL.48703	C	#4 ACSR	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	4.532	0.007	0	0	0	0
PD.7446	PL.48705	C	30T	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	4.532	0.007	0	0	0	0
PL.48706	PD.7446	C	#4 ACSR	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	4.581	0.049	0	0	0	0
PL.48681	PL.48680	B	6 A (CWC)	7.40Y	123.3	0.00	1.68	19.60	14	142	31	98	0.00	0.0	4.402	0.003	0	0	0	27
PD.7319	PL.48681	B	25T	7.40Y	123.3	0.00	1.68	19.60	0	142	31	98	0.00	0.0	4.402	0.003	0	0	0	27
PL.48682	PD.7319	B	6 A (CWC)	7.40Y	123.3	0.04	1.72	19.60	14	142	31	98	0.04	0.0	4.445	0.044	11	2	1	27
PL.48683	PL.48682	B	6 A (CWC)	7.39Y	123.2	0.08	1.80	18.09	13	131	29	98	0.08	0.1	4.546	0.100	9	2	1	26
PL.48684	PL.48683	B	6 A (CWC)	7.39Y	123.2	0.03	1.83	16.81	12	121	27	98	0.03	0.0	4.582	0.037	0	0	0	25
PL.47441	PL.48684	B	6 A (CWC)	7.39Y	123.1	0.05	1.88	10.75	8	78	17	98	0.03	0.0	4.686	0.104	3	1	1	17
PL.48696	PL.47441	B	6 A (CWC)	7.39Y	123.1	0.02	1.90	4.25	3	31	7	98	0.00	0.0	4.792	0.106	0	0	0	9
PL.47656	PL.48696	B	6 A (CWC)	7.39Y	123.1	0.00	1.90	0.70	1	5	1	98	0.00	0.0	4.849	0.057	5	1	1	1
PL.65271	PL.48696	B	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.16	0	1	0	100	0.00	0.0	4.847	0.055	1	0	3	3
PL.48697	PL.48696	B	6 A (CWC)	7.38Y	123.1	0.02	1.92	3.38	2	24	5	98	0.00	0.0	4.951	0.159	0	0	1	5
PL.48698	PL.48697	B	6 A (CWC)	7.38Y	123.1	0.01	1.93	3.38	2	24	5	98	0.00	0.0	5.052	0.101	12	3	1	4
PL.48699	PL.48698	B	6 A (CWC)	7.38Y	123.1	0.00	1.93	1.77	1	13	3	97	0.00	0.0	5.061	0.010	0	0	0	3
PL.48700	PL.48699	B	6 A (CWC)	7.38Y	123.1	0.00	1.94	1.77	1	13	3	97	0.00	0.0	5.091	0.029	3	1	1	3
PL.48701	PL.48700	B	6 A (CWC)	7.38Y	123.1	0.00	1.94	1.33	1	10	2	98	0.00	0.0	5.142	0.051	10	2	2	2
PL.48702	PL.48701	B	6 A (CWC)	7.38Y	123.1	0.00	1.94	0.00	0	0	0	100	0.00	0.0	5.174	0.031	0	0	0	0

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Balanced Voltage Drop Report
Source: Brodhead

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.48694	PL.47441	B	#4 ACSR	7.39Y	123.1	0.01	1.89	6.13	5	44	10	98	0.00	0.0	4.739	0.053	15	3	3	7
PL.47158	PL.48694	B	#4 ACSR	7.39Y	123.1	0.00	1.89	0.26	0	2	0	100	0.00	0.0	4.783	0.043	2	0	1	1
PL.48695	PL.48694	B	#4 ACSR	7.39Y	123.1	0.00	1.89	3.77	3	27	6	98	0.00	0.0	4.766	0.027	0	0	0	3
PL.48690	PL.48695	B	#4 ACSR	7.39Y	123.1	0.00	1.90	3.77	3	27	6	98	0.00	0.0	4.781	0.015	0	0	0	3
PL.48691	PL.48690	B	#4 ACSR	7.39Y	123.1	0.01	1.91	3.01	2	22	5	98	0.00	0.0	4.910	0.129	22	5	2	2
PL.57932	PL.48690	B	#4 ACSR	7.39Y	123.1	0.00	1.90	0.76	1	5	1	98	0.00	0.0	4.825	0.044	5	1	1	1
PL.48685	PL.48684	B	6 A (CWC)	7.39Y	123.1	0.02	1.85	6.06	4	44	10	98	0.01	0.0	4.662	0.080	0	0	0	8
PL.48686	PL.48685	B	6 A (CWC)	7.39Y	123.1	0.00	1.85	1.36	1	10	2	98	0.00	0.0	4.731	0.069	10	2	1	1
PL.48687	PL.48686	B	6 A (CWC)	7.39Y	123.1	0.00	1.85	0.00	0	0	0	100	0.00	0.0	4.824	0.093	0	0	0	0
PL.48689	PL.48685	B	6 A (CWC)	7.39Y	123.1	0.03	1.88	4.71	3	34	8	97	0.01	0.0	4.799	0.137	8	2	2	7
PL.48688	PL.48689	B	6 A (CWC)	7.39Y	123.1	0.00	1.88	1.53	1	11	2	98	0.00	0.0	4.857	0.058	4	1	1	3
PL.57928	PL.48688	B	6 A (CWC)	7.39Y	123.1	0.00	1.88	1.03	1	7	2	96	0.00	0.0	4.906	0.048	4	1	1	2
PL.57929	PL.57928	B	6 A (CWC)	7.39Y	123.1	0.00	1.88	0.40	0	3	1	95	0.00	0.0	4.949	0.043	3	1	1	1
PL.48692	PL.48689	B	6 A (CWC)	7.39Y	123.1	0.01	1.88	2.08	1	15	3	98	0.00	0.0	4.927	0.128	10	2	1	2
PL.48693	PL.48692	B	6 A (CWC)	7.39Y	123.1	0.00	1.88	0.68	0	5	1	98	0.00	0.0	4.975	0.048	5	1	1	1
PL.48676	PL.48675	A	6 A (CWC)	7.44Y	124.0	0.00	0.99	0.00	0	0	0	100	0.00	0.0	3.870	0.004	0	0	0	0
PD.7526	PL.48676	A	60QA	7.44Y	124.0	0.00	0.99	0.00	0	0	0	100	0.00	0.0	3.870	0.004	0	0	0	0
PL.48677	PD.7526	A	6 A (CWC)	7.44Y	124.0	0.00	0.99	0.00	0	0	0	100	0.00	0.0	3.936	0.066	0	0	0	0
PL.48678	PL.48677	A	6 A (CWC)	7.44Y	124.0	0.00	0.99	0.00	0	0	0	100	0.00	0.0	4.095	0.159	0	0	0	0
PL.58193	PL.47338	A	6 A (CWC)	7.20Y	120.1	0.00	4.95	2.93	2	21	5	97	0.00	0.0	2.785	0.002	0	0	0	5
PD.8607	PL.58193	A	30T	7.20Y	120.1	0.00	4.95	2.93	0	21	5	97	0.00	0.0	2.785	0.002	0	0	0	5
PL.58194	PD.8607	A	6 A (CWC)	7.20Y	120.1	0.00	4.95	2.93	2	21	5	97	0.00	0.0	2.787	0.002	0	0	0	5
PL.58190	PL.58194	A	6 A (CWC)	7.20Y	120.0	0.01	4.96	1.95	1	14	3	98	0.00	0.0	2.957	0.169	0	0	0	3
PL.58192	PL.58190	A	6 A (CWC)	7.20Y	120.0	0.01	4.97	1.95	1	14	3	98	0.00	0.0	3.033	0.076	0	0	1	3
PL.47340	PL.58192	A	6 A (CWC)	7.20Y	120.0	0.01	4.98	1.94	1	14	3	98	0.00	0.0	3.144	0.111	0	0	0	2
PL.47341	PL.47340	A	6 A (CWC)	7.20Y	120.0	0.00	4.98	0.01	0	0	0	100	0.00	0.0	3.230	0.086	0	0	0	1
PL.47342	PL.47341	A	6 A (CWC)	7.20Y	120.0	0.00	4.98	0.00	0	0	0	100	0.00	0.0	3.400	0.170	0	0	0	0
PL.57939	PL.47341	A	#4 ACSR	7.20Y	120.0	0.00	4.98	0.01	0	0	0	100	0.00	0.0	3.257	0.027	0	0	1	1
PL.47381	PL.47340	A	#4 ACSR	7.20Y	120.0	0.01	4.99	1.94	1	14	3	98	0.00	0.0	3.375	0.231	14	3	1	1
PL.58191	PL.58190	A	6 A (CWC)	7.20Y	120.0	0.00	4.96	0.00	0	0	0	100	0.00	0.0	3.303	0.346	0	0	0	0
PL.47339	PL.58194	A	6 A (CWC)	7.20Y	120.0	0.00	4.95	0.99	1	7	2	96	0.00	0.0	2.838	0.050	7	2	2	2

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Balanced Voltage Drop Report
Source: Brodhead

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.47328	PL.47942	ABC	#3/0 ACSR	7.23Y	120.5	0.02	4.48	42.77	14	904	208	97	0.12	0.0	2.478	0.040	11	2	1	146
PL.47329	PL.47328	ABC	#3/0 ACSR	7.23Y	120.5	0.02	4.50	42.27	14	894	206	97	0.13	0.0	2.522	0.044	0	0	0	145
PD.7609	PL.47329	ABC	300VWE	7.23Y	120.5	0.00	4.50	42.27	0	894	205	97	0.00	0.0	2.522	0.044	0	0	0	145
PL.47333	PD.7609	ABC	#3/0 ACSR	7.23Y	120.5	0.03	4.53	42.27	14	894	205	97	0.19	0.0	2.587	0.065	0	0	0	145
PL.47334	PL.47333	C	#4 ACSR	7.23Y	120.5	0.00	4.53	0.28	0	2	0	100	0.00	0.0	2.593	0.006	0	0	0	1
PD.7418	PL.47334	C	75QA	7.23Y	120.5	0.00	4.53	0.28	0	2	0	100	0.00	0.0	2.593	0.006	0	0	0	1
PL.47335	PD.7418	C	#4 ACSR	7.23Y	120.5	0.00	4.53	0.28	0	2	0	100	0.00	0.0	2.621	0.028	2	0	1	1
PL.47336	PL.47335	C	#4 ACSR	7.23Y	120.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	2.713	0.092	0	0	0	0
PL.47343	PL.47333	ABC	#3/0 ACSR	7.22Y	120.4	0.09	4.62	42.18	14	891	205	97	0.52	0.1	2.761	0.175	12	3	2	144
PL.47344	PL.47343	ABC	#3/0 ACSR	7.22Y	120.4	0.02	4.64	41.63	14	879	201	97	0.11	0.0	2.801	0.039	0	0	0	142
PL.47345	PL.47344	ABC	#3/0 ACSR	7.22Y	120.3	0.04	4.68	41.63	14	879	201	97	0.22	0.0	2.877	0.076	8	2	1	142
PL.48030	PL.47345	ABC	#3/0 ACSR	7.22Y	120.3	0.03	4.71	41.24	14	871	199	97	0.18	0.0	2.940	0.064	0	0	0	141
RG.50	PL.48030	ABC	114.3 KVA	7.45Y	124.2	-3.88	0.83	41.24	27	870	199	97	percent Boost= 3.12			Tap= 5.0				141
PL.48031	RG.50	ABC	#3/0 ACSR	7.45Y	124.2	0.00	0.84	39.95	13	870	199	97	0.02	0.0	2.949	0.009	12	3	1	141
PL.48032	PL.48031	ABC	#3/0 ACSR	7.45Y	124.1	0.05	0.88	39.39	13	858	196	97	0.26	0.0	3.048	0.099	0	0	0	140
PL.48033	PL.48032	C	#4 ACSR	7.45Y	124.1	0.00	0.88	1.33	1	10	2	98	0.00	0.0	3.050	0.002	0	0	0	1
PD.7406	PL.48033	C	60QA	7.45Y	124.1	0.00	0.88	1.33	2	10	2	98	0.00	0.0	3.050	0.002	0	0	0	1
PL.48034	PD.7406	C	#4 ACSR	7.45Y	124.1	0.00	0.88	1.33	1	10	2	98	0.00	0.0	3.093	0.043	10	2	1	1
PL.47783	PL.48032	ABC	#3/0 ACSR	7.44Y	124.1	0.05	0.93	38.95	13	848	193	98	0.24	0.0	3.145	0.097	10	2	2	139
PL.47784	PL.47783	ABC	#3/0 ACSR	7.44Y	124.0	0.02	0.95	38.50	13	838	191	97	0.13	0.0	3.197	0.052	0	0	0	137
PL.47786	PL.47784	C	#4 ACSR	7.44Y	124.0	0.00	0.95	0.87	1	6	1	99	0.00	0.0	3.199	0.002	0	0	0	1
PD.7578	PL.47786	C	60QA	7.44Y	124.0	0.00	0.95	0.87	1	6	1	99	0.00	0.0	3.199	0.002	0	0	0	1
PL.47787	PD.7578	C	#4 ACSR	7.44Y	124.0	0.00	0.95	0.87	1	6	1	99	0.00	0.0	3.246	0.047	6	1	1	1
PL.47785	PL.47784	ABC	#3/0 ACSR	7.44Y	124.0	0.02	0.97	38.21	13	832	189	98	0.11	0.0	3.244	0.047	13	3	2	136
PL.47788	PL.47785	C	#4 ACSR	7.44Y	124.0	0.00	0.97	0.67	1	5	1	98	0.00	0.0	3.246	0.002	0	0	0	2
PD.7480	PL.47788	C	60QA	7.44Y	124.0	0.00	0.97	0.67	1	5	1	98	0.00	0.0	3.246	0.002	0	0	0	2
PL.47789	PD.7480	C	#4 ACSR	7.44Y	124.0	0.00	0.98	0.67	1	5	1	98	0.00	0.0	3.325	0.079	5	1	2	2
PL.47790	PL.47789	C	#4 ACSR	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	3.435	0.109	0	0	0	0
PL.57933	PL.47790	C	#4 ACSR	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	3.481	0.046	0	0	0	0
PL.47551	PL.47790	C	#4 ACSR	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	3.528	0.093	0	0	0	0
PL.59031	PL.47789	C	#4 ACSR	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	3.361	0.035	0	0	0	0

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Balanced Voltage Drop Report
Source: Brodhead

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.47792	PL.47785	ABC	#3/0 ACSR	7.44Y	124.0	0.02	1.00	36.24	12	789	180	97	0.12	0.0	3.300	0.056	0	0	0	129
PL.47795	PL.47792	ABC	#3/0 ACSR	7.44Y	124.0	0.02	1.02	35.60	12	775	176	98	0.08	0.0	3.339	0.039	0	0	0	127
PL.47796	PL.47795	C	#4 ACSR	7.44Y	124.0	0.00	1.02	0.81	1	6	1	99	0.00	0.0	3.340	0.001	0	0	0	1
PD.7318	PL.47796	C	60QA	7.44Y	124.0	0.00	1.02	0.81	1	6	1	99	0.00	0.0	3.340	0.001	0	0	0	1
PL.47797	PD.7318	C	#4 ACSR	7.44Y	124.0	0.00	1.02	0.81	1	6	1	99	0.00	0.0	3.375	0.035	6	1	1	1
PL.47798	PL.47795	ABC	#3/0 ACSR	7.44Y	124.0	0.02	1.03	35.33	12	769	175	98	0.08	0.0	3.379	0.040	0	0	0	126
PL.47799	PL.47798	ABC	#3/0 ACSR	7.44Y	124.0	0.00	1.03	35.33	12	769	175	98	0.00	0.0	3.380	0.000	4	1	1	126
PL.60150	PL.47799	ABC	#3/0 ACSR	7.44Y	124.0	0.00	1.03	35.15	12	765	174	98	0.00	0.0	3.380	0.000	0	0	0	125
PL.60151	PL.60150	ABC	#3/0 ACSR	7.44Y	123.9	0.02	1.05	35.15	12	765	174	98	0.10	0.0	3.430	0.050	0	0	0	125
PL.47801	PL.60151	ABC	#3/0 ACSR	7.44Y	123.9	0.00	1.06	34.89	12	759	173	97	0.00	0.0	3.430	0.000	0	0	0	124
PL.47800	PL.47801	ABC	#3/0 ACSR	7.43Y	123.9	0.05	1.10	34.89	12	759	173	97	0.23	0.0	3.542	0.112	0	0	0	124
PL.48295	PL.47800	ABC	#3/0 ACSR	7.43Y	123.9	0.03	1.13	32.22	11	701	159	98	0.13	0.0	3.618	0.076	16	3	1	114
PL.48296	PL.48295	ABC	#3/0 ACSR	7.43Y	123.8	0.03	1.16	30.97	10	673	153	98	0.14	0.0	3.707	0.089	0	0	0	112
PL.46797	PL.48296	A	6 A (CWC)	7.43Y	123.8	0.05	1.21	11.02	8	80	18	98	0.03	0.0	3.808	0.101	0	0	0	17
PL.48302	PL.46797	A	6 A (CWC)	7.43Y	123.8	0.00	1.22	11.02	8	80	18	98	0.00	0.0	3.809	0.001	0	0	0	17
PD.7560	PL.48302	A	35L	7.43Y	123.8	0.00	1.22	11.02	31	80	18	98	0.00	0.0	3.809	0.001	0	0	0	17
PL.48303	PD.7560	A	6 A (CWC)	7.43Y	123.8	0.01	1.23	11.02	8	80	18	98	0.01	0.0	3.838	0.030	0	0	4	17
PL.48304	PL.48303	A	6 A (CWC)	7.42Y	123.7	0.12	1.35	11.02	8	80	18	98	0.07	0.1	4.078	0.240	2	0	1	13
PL.48305	PL.48304	A	6 A (CWC)	7.42Y	123.6	0.03	1.38	10.71	8	78	17	98	0.02	0.0	4.148	0.070	0	0	0	12
PL.46199	PL.48305	A	6 A (CWC)	7.40Y	123.4	0.23	1.61	10.71	8	78	17	98	0.13	0.2	4.681	0.533	15	3	1	12
PL.47435	PL.46199	A	#1/0 ACSR	7.40Y	123.4	0.00	1.61	0.32	0	2	1	89	0.00	0.0	4.701	0.020	2	1	2	2
PL.46878	PL.46199	A	6 A (CWC)	7.40Y	123.3	0.13	1.74	8.34	6	60	13	98	0.06	0.1	5.041	0.360	5	1	1	9
PL.46962	PL.46878	A	6 A (CWC)	7.39Y	123.2	0.02	1.77	7.67	5	55	12	98	0.01	0.0	5.111	0.069	0	0	0	8
PL.46963	PL.46962	A	6 A (CWC)	7.39Y	123.2	0.03	1.80	5.71	4	41	9	98	0.01	0.0	5.237	0.126	0	0	1	5
PL.46964	PL.46963	A	6 A (CWC)	7.39Y	123.1	0.06	1.86	5.02	4	36	8	98	0.02	0.0	5.538	0.301	6	1	1	3
PL.47436	PL.46964	A	6 A (CWC)	7.39Y	123.1	0.03	1.89	4.12	3	30	7	97	0.01	0.0	5.706	0.169	0	0	0	2
PL.48172	PL.47436	A	1/0 AL URD	7.39Y	123.1	0.00	1.90	2.23	1	16	4	97	0.00	0.0	5.829	0.123	16	4	1	1
PL.47437	PL.47436	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	1.90	1	14	3	98	0.00	0.0	5.768	0.062	14	3	1	1
PL.48119	PL.46963	A	#2 ACSR	7.39Y	123.2	0.00	1.80	0.69	0	5	1	98	0.00	0.0	5.312	0.076	5	1	1	1
PL.46888	PL.46962	A	6 A (CWC)	7.39Y	123.2	0.00	1.77	1.96	1	14	3	98	0.00	0.0	5.188	0.078	14	3	3	3
PL.48300	PL.48296	ABC	#3/0 ACSR	7.43Y	123.8	0.01	1.18	10.41	3	227	50	98	0.02	0.0	3.793	0.086	0	0	1	27

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Balanced Voltage Drop Report
Source: Brodhead

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.48301	PL.48300	ABC	#3/0 ACSR	7.43Y	123.8	0.01	1.19	10.40	3	226	50	98	0.02	0.0	3.902	0.109	12	3	2	26
PL.48315	PL.48301	ABC	#3/0 ACSR	7.43Y	123.8	0.01	1.20	9.86	3	215	48	98	0.01	0.0	3.982	0.080	17	4	1	24
PL.48322	PL.48315	ABC	#3/0 ACSR	7.43Y	123.8	0.01	1.21	8.13	3	177	39	98	0.01	0.0	4.060	0.078	7	2	1	20
PL.48327	PL.48322	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.21	7.11	2	155	34	98	0.00	0.0	4.121	0.061	23	5	3	17
PL.48332	PL.48327	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.21	4.94	2	107	24	98	0.00	0.0	4.194	0.073	12	3	1	12
PL.48124	PL.48332	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.22	3.98	1	87	19	98	0.00	0.0	4.240	0.047	24	5	2	10
PL.48125	PL.48124	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.22	2.89	1	63	14	98	0.00	0.0	4.390	0.150	12	3	1	8
PL.48126	PL.48125	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.22	2.36	1	51	11	98	0.00	0.0	4.458	0.068	0	0	0	7
PL.52772	PL.48126	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.22	2.07	1	45	10	98	0.00	0.0	4.530	0.072	0	0	0	6
PL.52773	PL.52772	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.23	2.07	1	45	10	98	0.00	0.0	4.539	0.009	0	0	0	6
PL.52506	PL.52773	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.23	2.07	1	45	10	98	0.00	0.0	4.584	0.045	13	3	1	6
PL.52507	PL.52506	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.23	1.45	0	31	7	98	0.00	0.0	4.621	0.037	8	2	2	5
PL.48130	PL.52507	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.23	1.09	0	24	5	98	0.00	0.0	4.683	0.063	0	0	0	3
PL.48131	PL.48130	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.23	1.09	0	24	5	98	0.00	0.0	4.735	0.051	0	0	0	3
PL.48134	PL.48131	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.23	0.79	0	17	4	97	0.00	0.0	4.837	0.102	11	2	1	2
PL.48136	PL.48134	C	6 A (CWC)	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	4.846	0.009	0	0	0	0
PD.7315	PL.48136	C	25T	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	4.846	0.009	0	0	0	0
PL.47561	PD.7315	C	6 A (CWC)	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	4.946	0.101	0	0	0	0
PL.47562	PL.47561	C	6 A (CWC)	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	5.011	0.064	0	0	0	0
PL.62523	PL.48134	ABC	#3/0 ACSR	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	4.901	0.064	0	0	0	0
PD.9379-A	PL.62523	ABC	Open	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	4.901	0.064	0	0	0	0
PL.48135	PL.48134	A	6 A (CWC)	7.43Y	123.8	0.00	1.23	0.87	1	6	1	99	0.00	0.0	4.845	0.008	0	0	0	1
PD.7444	PL.48135	A	60QA	7.43Y	123.8	0.00	1.23	0.87	1	6	1	99	0.00	0.0	4.845	0.008	0	0	0	1
PL.47657	PD.7444	A	6 A (CWC)	7.43Y	123.8	0.00	1.23	0.87	1	6	1	99	0.00	0.0	4.960	0.115	6	1	1	1
PL.47658	PL.47657	A	6 A (CWC)	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	5.121	0.161	0	0	0	0
PL.48132	PL.48131	A	6 A (CWC)	7.43Y	123.8	0.00	1.23	0.91	1	7	1	99	0.00	0.0	4.738	0.004	0	0	0	1
PD.7376	PL.48132	A	60QA	7.43Y	123.8	0.00	1.23	0.91	2	7	1	99	0.00	0.0	4.738	0.004	0	0	0	1
PL.48133	PD.7376	A	6 A (CWC)	7.43Y	123.8	0.00	1.23	0.91	1	7	1	99	0.00	0.0	4.770	0.032	7	1	1	1
CP.88	PL.52772	ABC	Cap (300)	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	4.530	0.032	0	0	0	0
PL.48128	PL.48126	A	6 A (CWC)	7.43Y	123.8	0.00	1.22	0.89	1	6	1	99	0.00	0.0	4.462	0.004	0	0	0	1
PD.7443	PL.48128	A	60QA	7.43Y	123.8	0.00	1.22	0.89	1	6	1	99	0.00	0.0	4.462	0.004	0	0	0	1

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Balanced Voltage Drop Report
Source: Brodhead

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.48129	PD.7443	A	6 A (CWC)	7.43Y	123.8	0.00	1.22	0.89	1	6	1	99	0.00	0.0	4.486	0.024	0	0	0	1
PL.48127	PL.48129	A	6 A (CWC)	7.43Y	123.8	0.00	1.23	0.89	1	6	1	99	0.00	0.0	4.543	0.057	6	1	1	1
PL.48120	PL.48332	A	6 A (CWC)	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	4.196	0.002	0	0	0	0
PD.7590	PL.48120	A	60QA	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	4.196	0.002	0	0	0	0
PL.48121	PD.7590	A	6 A (CWC)	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	4.674	0.479	0	0	0	0
PL.48122	PL.48332	C	6 A (CWC)	7.43Y	123.8	0.00	1.21	1.23	1	9	2	98	0.00	0.0	4.196	0.003	0	0	0	1
PD.7439	PL.48122	C	60QA	7.43Y	123.8	0.00	1.21	1.23	2	9	2	98	0.00	0.0	4.196	0.003	0	0	0	1
PL.48123	PD.7439	C	6 A (CWC)	7.43Y	123.8	0.00	1.22	1.23	1	9	2	98	0.00	0.0	4.278	0.082	9	2	1	1
PL.48328	PL.48327	C	#4 ACSR	7.43Y	123.8	0.00	1.21	1.83	1	13	3	97	0.00	0.0	4.123	0.001	0	0	0	1
PD.7441	PL.48328	C	60QA	7.43Y	123.8	0.00	1.21	1.83	3	13	3	97	0.00	0.0	4.123	0.001	0	0	0	1
PL.48329	PD.7441	C	#4 ACSR	7.43Y	123.8	0.00	1.21	1.83	1	13	3	97	0.00	0.0	4.173	0.050	13	3	1	1
PL.48330	PL.48327	A	#4 ACSR	7.43Y	123.8	0.00	1.21	1.58	1	11	3	96	0.00	0.0	4.123	0.001	0	0	0	1
PD.7442	PL.48330	A	60QA	7.43Y	123.8	0.00	1.21	1.58	3	11	3	96	0.00	0.0	4.123	0.001	0	0	0	1
PL.48331	PD.7442	A	#4 ACSR	7.43Y	123.8	0.00	1.21	1.58	1	11	3	96	0.00	0.0	4.210	0.087	11	3	1	1
PL.48323	PL.48322	C	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.52	0	4	1	97	0.00	0.0	4.061	0.001	0	0	0	1
PD.7476	PL.48323	C	10QA	7.43Y	123.8	0.00	1.21	0.52	0	4	1	97	0.00	0.0	4.061	0.001	0	0	0	1
PL.48324	PD.7476	C	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.52	0	4	1	97	0.00	0.0	4.105	0.044	4	1	1	1
PL.48325	PL.48322	A	#4 ACSR	7.43Y	123.8	0.00	1.21	1.54	1	11	2	98	0.00	0.0	4.062	0.002	0	0	0	1
PD.7440	PL.48325	A	60QA	7.43Y	123.8	0.00	1.21	1.54	3	11	2	98	0.00	0.0	4.062	0.002	0	0	0	1
PL.48326	PD.7440	A	#4 ACSR	7.43Y	123.8	0.00	1.21	1.54	1	11	2	98	0.00	0.0	4.075	0.013	11	2	1	1
PL.48316	PL.48315	C	#4 ACSR	7.43Y	123.8	0.00	1.20	2.90	2	21	5	97	0.00	0.0	4.004	0.023	10	2	1	3
PL.48317	PL.48316	C	#4 ACSR	7.43Y	123.8	0.01	1.21	1.48	1	11	2	98	0.00	0.0	4.100	0.096	0	0	1	2
PL.48318	PL.48317	C	#4 ACSR	7.43Y	123.8	0.00	1.21	1.47	1	11	2	98	0.00	0.0	4.154	0.053	11	2	1	1
PL.48298	PL.48296	A	#1/0 ACSR	7.42Y	123.7	0.16	1.32	50.65	22	367	85	97	0.39	0.1	3.846	0.140	0	0	0	68
PL.48299	PL.48298	A	#1/0 ACSR	7.42Y	123.7	0.00	1.32	50.65	22	366	84	97	0.00	0.0	3.847	0.001	0	0	0	68
PD.7561	PL.48299	A	70L	7.42Y	123.7	0.00	1.32	50.65	72	366	84	97	0.00	0.0	3.847	0.001	0	0	0	68
PL.47346	PD.7561	A	#1/0 ACSR	7.41Y	123.5	0.13	1.46	50.65	22	366	84	97	0.32	0.1	3.964	0.116	0	0	0	68
PL.47751	PL.47346	A	6 A (CWC)	7.41Y	123.5	0.00	1.46	2.46	2	18	4	98	0.00	0.0	4.033	0.069	18	4	3	3
PL.47347	PL.47346	A	#1/0 ACSR	7.41Y	123.5	0.06	1.52	48.19	21	348	80	97	0.15	0.0	4.023	0.059	0	0	0	65
PL.47595	PL.47347	A	6 A (CWC)	7.41Y	123.5	0.00	1.52	5.42	4	39	9	97	0.00	0.0	4.027	0.005	0	0	0	7
PD.7438	PL.47595	A	40QA	7.41Y	123.5	0.00	1.52	5.42	14	39	9	97	0.00	0.0	4.027	0.005	0	0	0	7

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Balanced Voltage Drop Report
Source: Brodhead

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.58941	PD.7438	A	6 A (CWC)	7.41Y	123.4	0.04	1.56	5.42	4	39	9	97	0.01	0.0	4.238	0.211	18	4	4	7
PL.58942	PL.58941	A	6 A (CWC)	7.41Y	123.4	0.01	1.57	1.95	1	14	3	98	0.00	0.0	4.349	0.110	5	1	1	2
PL.47601	PL.58942	A	6 A (CWC)	7.41Y	123.4	0.00	1.57	1.24	1	9	2	98	0.00	0.0	4.425	0.076	9	2	1	1
PL.58995	PL.58941	A	6 A (CWC)	7.41Y	123.4	0.00	1.57	0.96	1	7	2	96	0.00	0.0	4.344	0.106	0	0	0	1
PL.47602	PL.58995	A	6 A (CWC)	7.41Y	123.4	0.00	1.57	0.96	1	7	2	96	0.00	0.0	4.387	0.043	7	2	1	1
PL.47603	PL.47347	A	#1/0 ACSR	7.40Y	123.4	0.11	1.63	42.77	19	309	71	97	0.24	0.1	4.141	0.119	0	0	0	58
PL.47605	PL.47603	A	#2 ACSR	7.40Y	123.4	0.00	1.64	0.54	0	4	1	97	0.00	0.0	4.330	0.188	4	1	1	1
PL.47606	PL.47605	A	#2 ACSR	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	4.491	0.161	0	0	0	0
PL.47604	PL.47603	A	#1/0 ACSR	7.39Y	123.2	0.17	1.80	42.23	18	305	70	97	0.34	0.1	4.320	0.179	3	1	1	57
PL.47233	PL.47604	A	#1/0 ACSR	7.39Y	123.2	0.01	1.81	41.81	18	301	69	97	0.01	0.0	4.326	0.006	0	0	0	56
PD.7477	PL.47233	A	60QA	7.39Y	123.2	0.00	1.81	41.81	70	301	69	97	0.00	0.0	4.326	0.006	0	0	0	56
PL.48667	PD.7477	A	#1/0 ACSR	7.39Y	123.2	0.03	1.84	41.81	18	301	69	97	0.06	0.0	4.358	0.032	0	0	0	56
PL.48668	PL.48667	A	#1/0 ACSR	7.38Y	123.0	0.12	1.96	41.81	18	301	69	97	0.24	0.1	4.486	0.128	0	0	0	56
PL.47234	PL.48668	A	6 A (CWC)	7.38Y	123.0	0.00	1.96	1.24	1	9	2	98	0.00	0.0	4.533	0.047	9	2	2	2
PL.47235	PL.47234	A	6 A (CWC)	7.38Y	123.0	0.00	1.96	0.00	0	0	0	100	0.00	0.0	4.729	0.196	0	0	0	0
PL.47236	PL.48668	A	#1/0 ACSR	7.38Y	122.9	0.11	2.07	40.58	18	292	66	98	0.22	0.1	4.610	0.124	0	0	1	54
PL.47237	PL.47236	A	#1/0 ACSR	7.37Y	122.8	0.11	2.19	39.83	17	286	65	98	0.22	0.1	4.739	0.129	0	0	0	52
PL.47238	PL.47237	A	#1/0 ACSR	7.36Y	122.7	0.08	2.26	38.72	17	278	63	98	0.14	0.1	4.826	0.087	0	0	0	51
PL.47596	PL.47238	A	#1/0 ACSR	7.36Y	122.6	0.11	2.37	35.32	15	254	57	98	0.18	0.1	4.963	0.138	3	1	3	47
PL.47597	PL.47596	A	#1/0 ACSR	7.35Y	122.6	0.05	2.42	34.89	15	250	56	98	0.08	0.0	5.027	0.064	14	3	1	44
PL.47598	PL.47597	A	#1/0 ACSR	7.35Y	122.5	0.07	2.49	32.92	14	236	53	98	0.12	0.0	5.128	0.101	3	1	1	43
PL.47599	PL.47598	A	#1/0 ACSR	7.35Y	122.5	0.04	2.53	32.50	14	233	52	98	0.06	0.0	5.184	0.056	3	1	1	42
PL.47600	PL.47599	A	#1/0 ACSR	7.34Y	122.3	0.13	2.66	32.02	14	230	51	98	0.20	0.1	5.361	0.176	0	0	0	41
PL.47250	PL.47600	A	#1/0 ACSR	7.34Y	122.3	0.05	2.71	21.03	9	151	34	98	0.05	0.0	5.475	0.115	0	0	0	31
PL.47682	PL.47250	A	#1/0 ACSR	7.33Y	122.2	0.05	2.77	19.30	8	138	31	98	0.05	0.0	5.600	0.125	0	0	0	29
PL.47685	PL.47682	A	#1/0 ACSR	7.33Y	122.2	0.03	2.79	15.56	7	111	25	98	0.02	0.0	5.676	0.076	0	0	0	27
PL.47686	PL.47685	A	#1/0 ACSR	7.33Y	122.1	0.06	2.85	15.55	7	111	25	98	0.05	0.0	5.850	0.174	0	0	0	26
PL.47383	PL.47686	A	#1/0 ACSR	7.33Y	122.1	0.04	2.89	13.17	6	94	21	98	0.02	0.0	5.969	0.119	0	0	0	22
PL.47384	PL.47383	A	#1/0 ACSR	7.32Y	122.1	0.03	2.92	13.17	6	94	21	98	0.02	0.0	6.085	0.116	0	0	0	22
PL.47660	PL.47384	A	#4 ACSR	7.32Y	122.1	0.00	2.92	0.91	1	7	1	99	0.00	0.0	6.134	0.049	7	1	1	1
PL.47385	PL.47384	A	#1/0 ACSR	7.32Y	122.0	0.03	2.96	12.26	5	88	20	98	0.02	0.0	6.209	0.123	5	1	2	21

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: Brodhead

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.47387	PL.47385	A	#1/0 ACSR	7.32Y	122.0	0.01	2.97	11.50	5	82	18	98	0.01	0.0	6.264	0.055	0	0	0	19
PL.47164	PL.47387	A	#1/0 ACSR	7.32Y	122.0	0.01	2.98	11.24	5	80	18	98	0.01	0.0	6.303	0.039	0	0	0	18
PL.47165	PL.47164	A	#1/0 ACSR	7.32Y	122.0	0.03	3.01	11.24	5	80	18	98	0.01	0.0	6.407	0.104	0	0	0	18
PL.58982	PL.47165	A	#1/0 ACSR	7.32Y	122.0	0.04	3.05	10.32	4	74	16	98	0.02	0.0	6.586	0.179	0	0	0	16
PL.58983	PL.58982	A	#1/0 ACSR	7.32Y	121.9	0.01	3.06	10.32	4	74	16	98	0.01	0.0	6.632	0.046	0	0	0	16
PL.47947	PL.58983	A	#1/0 ACSR	7.32Y	121.9	0.02	3.08	10.32	4	74	16	98	0.01	0.0	6.737	0.105	0	0	0	16
PL.46965	PL.47947	A	#1/0 ACSR	7.31Y	121.9	0.02	3.11	10.32	4	74	16	98	0.01	0.0	6.845	0.108	0	0	0	16
PL.46966	PL.46965	A	6 A (CWC)	7.31Y	121.9	0.00	3.11	10.32	7	74	16	98	0.00	0.0	6.849	0.005	0	0	0	16
PD.7514	PL.46966	A	40QA	7.31Y	121.9	0.00	3.11	10.32	26	74	16	98	0.00	0.0	6.849	0.005	0	0	0	16
PL.46967	PD.7514	A	6 A (CWC)	7.31Y	121.8	0.08	3.19	10.32	7	74	16	98	0.04	0.1	7.035	0.185	11	2	1	16
PL.47720	PL.46967	A	6 A (CWC)	7.31Y	121.8	0.00	3.19	0.00	0	0	0	100	0.00	0.0	7.195	0.160	0	0	0	0
PL.57306	PL.47720	A	6 A (CWC)	7.31Y	121.8	0.00	3.19	0.00	0	0	0	100	0.00	0.0	7.277	0.083	0	0	0	0
PL.57308	PL.57306	A	#4 ACSR	7.31Y	121.8	0.00	3.19	0.00	0	0	0	100	0.00	0.0	7.355	0.078	0	0	0	0
PL.57307	PL.57306	A	6 A (CWC)	7.31Y	121.8	0.00	3.19	0.00	0	0	0	100	0.00	0.0	7.496	0.218	0	0	0	0
PL.46968	PL.46967	A	6 A (CWC)	7.31Y	121.8	0.04	3.23	8.78	6	63	14	98	0.02	0.0	7.140	0.105	12	3	2	15
PL.46969	PL.46968	A	6 A (CWC)	7.30Y	121.7	0.07	3.29	7.12	5	51	11	98	0.03	0.1	7.349	0.210	0	0	1	13
PL.46970	PL.46969	A	#4 ACSR	7.30Y	121.7	0.02	3.32	5.07	4	36	8	98	0.01	0.0	7.452	0.103	0	0	0	9
PL.46971	PL.46970	A	#4 ACSR	7.30Y	121.7	0.01	3.33	4.39	3	31	7	98	0.00	0.0	7.523	0.071	6	1	2	8
PL.46972	PL.46971	A	#4 ACSR	7.30Y	121.7	0.02	3.35	3.55	3	25	6	97	0.00	0.0	7.643	0.120	1	0	1	6
PL.46973	PL.46972	A	#4 ACSR	7.30Y	121.6	0.02	3.37	3.35	3	24	5	98	0.00	0.0	7.771	0.128	0	0	0	5
PL.48306	PL.46973	A	#4 ACSR	7.30Y	121.6	0.01	3.37	1.90	1	14	3	98	0.00	0.0	7.874	0.103	0	0	0	1
PL.48307	PL.48306	A	#4 ACSR	7.30Y	121.6	0.01	3.38	1.90	1	14	3	98	0.00	0.0	8.051	0.177	14	3	1	1
PL.48308	PL.46973	A	#4 ACSR	7.30Y	121.6	0.01	3.38	1.45	1	10	2	98	0.00	0.0	7.961	0.190	0	0	2	4
PL.48309	PL.48308	A	#4 ACSR	7.30Y	121.6	0.01	3.39	1.42	1	10	2	98	0.00	0.0	8.093	0.132	0	0	0	2
PL.48310	PL.48309	A	#4 ACSR	7.30Y	121.6	0.01	3.39	1.42	1	10	2	98	0.00	0.0	8.234	0.141	3	1	1	2
PL.48311	PL.48310	A	#4 ACSR	7.30Y	121.6	0.00	3.39	1.03	1	7	2	96	0.00	0.0	8.278	0.044	7	2	1	1
PL.47740	PL.46970	A	#4 ACSR	7.30Y	121.7	0.00	3.32	0.68	1	5	1	98	0.00	0.0	7.527	0.074	5	1	1	1
PL.48118	PL.46970	A	#4 ACSR	7.30Y	121.7	0.00	3.32	0.00	0	0	0	100	0.00	0.0	7.540	0.087	0	0	0	0
PL.48312	PL.46969	A	6 A (CWC)	7.30Y	121.7	0.01	3.31	2.04	1	15	3	98	0.00	0.0	7.493	0.144	0	0	1	3
PL.48313	PL.48312	A	6 A (CWC)	7.30Y	121.7	0.01	3.31	1.98	1	14	3	98	0.00	0.0	7.581	0.088	8	2	1	2
PL.48314	PL.48313	A	6 A (CWC)	7.30Y	121.7	0.00	3.31	0.89	1	6	1	99	0.00	0.0	7.653	0.072	6	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: Brodhead

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.48170	PL.47947	A	6 A (CWC)	7.32Y	121.9	0.00	3.08	0.00	0	0	0	100	0.00	0.0	6.819	0.082	0	0	0	0
PL.47166	PL.47165	A	#4 ACSR	7.32Y	122.0	0.00	3.01	0.92	1	7	1	99	0.00	0.0	6.470	0.063	7	1	2	2
PL.47946	PL.47166	A	#4 ACSR	7.32Y	122.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	6.550	0.080	0	0	0	0
PL.47386	PL.47387	A	#4 ACSR	7.32Y	122.0	0.00	2.97	0.27	0	2	0	100	0.00	0.0	6.269	0.005	0	0	0	1
PD.7375	PL.47386	A	25QA	7.32Y	122.0	0.00	2.97	0.27	1	2	0	100	0.00	0.0	6.269	0.005	0	0	0	1
PL.48319	PD.7375	A	#4 ACSR	7.32Y	122.0	0.01	2.98	0.27	0	2	0	100	0.00	0.0	6.842	0.574	0	0	0	1
PL.48320	PL.48319	A	#4 ACSR	7.32Y	122.0	0.00	2.98	0.27	0	2	0	100	0.00	0.0	7.218	0.375	0	0	0	1
PL.48321	PL.48320	A	#4 ACSR	7.32Y	122.0	0.00	2.98	0.27	0	2	0	100	0.00	0.0	7.423	0.205	2	0	1	1
PL.57873	PL.47686	A	#4 ACSR	7.33Y	122.1	0.00	2.86	1.39	1	10	2	98	0.00	0.0	5.895	0.045	10	2	2	3
PL.57874	PL.57873	A	#4 ACSR	7.33Y	122.1	0.00	2.86	0.00	0	0	0	100	0.00	0.0	5.983	0.087	0	0	1	1
PL.47944	PL.47686	A	#4 ACSR	7.33Y	122.1	0.00	2.86	1.00	1	7	2	96	0.00	0.0	5.921	0.071	7	2	1	1
PL.47945	PL.47944	A	#4 ACSR	7.33Y	122.1	0.00	2.86	0.00	0	0	0	100	0.00	0.0	5.982	0.061	0	0	0	0
PL.47288	PL.47685	A	#4 ACSR	7.33Y	122.2	0.00	2.79	0.00	0	0	0	100	0.00	0.0	5.799	0.123	0	0	1	1
PL.47683	PL.47682	A	6 A (CWC)	7.33Y	122.2	0.00	2.77	3.74	3	27	6	98	0.00	0.0	5.636	0.035	10	2	1	2
PL.47684	PL.47683	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	2.36	2	17	4	97	0.00	0.0	5.721	0.085	17	4	1	1
PL.47251	PL.47250	A	6 A (CWC)	7.34Y	122.3	0.01	2.72	1.74	1	12	3	97	0.00	0.0	5.616	0.141	2	0	1	2
PL.47681	PL.47251	A	6 A (CWC)	7.34Y	122.3	0.01	2.73	1.51	1	11	2	98	0.00	0.0	5.774	0.158	11	2	1	1
PL.47244	PL.47600	A	6 A (CWC)	7.34Y	122.3	0.03	2.69	10.24	7	73	16	98	0.02	0.0	5.454	0.093	35	8	3	9
PL.47245	PL.47244	A	6 A (CWC)	7.34Y	122.3	0.02	2.71	5.38	4	39	9	97	0.01	0.0	5.542	0.089	6	1	1	6
PL.47246	PL.47245	A	6 A (CWC)	7.34Y	122.3	0.01	2.72	4.55	3	33	7	98	0.00	0.0	5.596	0.054	10	2	2	5
PL.47247	PL.47246	A	6 A (CWC)	7.34Y	122.3	0.01	2.73	3.20	2	23	5	98	0.00	0.0	5.694	0.097	10	2	1	3
PL.58962	PL.47247	A	6 A (CWC)	7.34Y	122.3	0.01	2.74	1.79	1	13	3	97	0.00	0.0	5.772	0.079	0	0	0	2
PL.58964	PL.58962	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.98	1	7	2	96	0.00	0.0	5.846	0.073	7	2	1	1
PL.58963	PL.58962	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.81	1	6	1	99	0.00	0.0	5.868	0.096	6	1	1	1
PL.47248	PL.58963	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.00	0	0	0	100	0.00	0.0	6.176	0.307	0	0	0	0
PL.47249	PL.47248	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.00	0	0	0	100	0.00	0.0	6.267	0.092	0	0	0	0
PL.47438	PL.47600	A	#4 ACSR	7.34Y	122.3	0.00	2.66	0.74	1	5	1	98	0.00	0.0	5.511	0.151	5	1	1	1
PL.47439	PL.47438	A	#4 ACSR	7.34Y	122.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	5.605	0.094	0	0	0	0
PL.47239	PL.47238	A	6 A (CWC)	7.36Y	122.7	0.01	2.27	3.40	2	24	5	98	0.00	0.0	4.909	0.083	6	1	1	4
PL.47240	PL.47239	A	6 A (CWC)	7.36Y	122.7	0.01	2.28	2.56	2	18	4	98	0.00	0.0	4.975	0.066	0	0	0	3
PL.47242	PL.47240	A	6 A (CWC)	7.36Y	122.7	0.00	2.29	2.56	2	18	4	98	0.00	0.0	5.027	0.052	9	2	2	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: Brodhead

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.47243	PL.47242	A	6 A (CWC)	7.36Y	122.7	0.00	2.29	1.37	1	10	2	98	0.00	0.0	5.088	0.061	10	2	1	1
PL.47241	PL.47240	A	6 A (CWC)	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	5.067	0.092	0	0	0	0
PL.47163	PL.47237	A	#2 ACSR	7.37Y	122.8	0.00	2.19	1.11	1	8	2	97	0.00	0.0	4.780	0.041	8	2	1	1
PL.47318	PL.47236	A	#4 ACSR	7.38Y	122.9	0.00	2.07	0.72	1	5	1	98	0.00	0.0	4.679	0.068	5	1	1	1
PL.47655	PL.48295	A	6 A (CWC)	7.43Y	123.9	0.00	1.14	1.61	1	12	3	97	0.00	0.0	3.744	0.126	12	3	1	1
PL.46947	PL.47800	C	#4 ACSR	7.43Y	123.9	0.00	1.10	0.80	1	6	1	99	0.00	0.0	3.543	0.001	0	0	0	2
PD.7479	PL.46947	C	60QA	7.43Y	123.9	0.00	1.10	0.80	1	6	1	99	0.00	0.0	3.543	0.001	0	0	0	2
PL.47554	PD.7479	C	#4 ACSR	7.43Y	123.9	0.00	1.10	0.80	1	6	1	99	0.00	0.0	3.597	0.054	6	1	2	2
PL.47555	PL.47800	A	6 A (CWC)	7.43Y	123.9	0.00	1.10	7.20	5	52	12	97	0.00	0.0	3.543	0.001	0	0	0	8
PD.7316	PL.47555	A	50T	7.43Y	123.9	0.00	1.10	7.20	0	52	12	97	0.00	0.0	3.543	0.001	0	0	0	8
PL.47724	PD.7316	A	6 A (CWC)	7.43Y	123.9	0.03	1.13	7.20	5	52	12	97	0.01	0.0	3.626	0.083	0	0	1	8
PL.47725	PL.47724	A	6 A (CWC)	7.43Y	123.9	0.01	1.14	7.19	5	52	12	97	0.00	0.0	3.658	0.032	0	0	0	7
PL.47727	PL.47725	A	6 A (CWC)	7.43Y	123.9	0.00	1.14	1.78	1	13	3	97	0.00	0.0	3.712	0.054	3	1	1	3
PL.47516	PL.47727	A	6 A (CWC)	7.43Y	123.9	0.00	1.14	0.00	0	0	0	100	0.00	0.0	3.735	0.023	0	0	0	0
PL.48293	PL.47727	A	6 A (CWC)	7.43Y	123.9	0.00	1.14	1.41	1	10	2	98	0.00	0.0	3.747	0.035	10	2	1	2
PL.48294	PL.48293	A	6 A (CWC)	7.43Y	123.9	0.00	1.14	0.04	0	0	0	100	0.00	0.0	3.772	0.024	0	0	1	1
PL.47726	PL.47725	A	6 A (CWC)	7.43Y	123.9	0.01	1.15	5.41	4	39	9	97	0.00	0.0	3.690	0.032	11	2	1	4
PL.47804	PL.47726	A	6 A (CWC)	7.43Y	123.8	0.01	1.16	3.96	3	29	6	98	0.00	0.0	3.765	0.075	7	2	1	3
PL.46889	PL.47804	A	6 A (CWC)	7.43Y	123.8	0.00	1.16	0.00	0	0	0	100	0.00	0.0	3.798	0.033	0	0	0	0
PL.48035	PL.47804	A	6 A (CWC)	7.43Y	123.8	0.00	1.16	1.64	1	12	3	97	0.00	0.0	3.822	0.057	12	3	1	1
PL.46886	PL.47804	A	#1/0 ACSR	7.43Y	123.8	0.00	1.16	1.31	1	10	2	98	0.00	0.0	3.813	0.048	10	2	1	1
PL.47802	PL.60151	C	6 A (CWC)	7.44Y	123.9	0.00	1.05	0.78	1	6	1	99	0.00	0.0	3.431	0.001	0	0	0	1
PD.7478	PL.47802	C	60QA	7.44Y	123.9	0.00	1.05	0.78	1	6	1	99	0.00	0.0	3.431	0.001	0	0	0	1
PL.47803	PD.7478	C	6 A (CWC)	7.44Y	123.9	0.00	1.06	0.78	1	6	1	99	0.00	0.0	3.480	0.049	6	1	1	1
PL.47793	PL.47792	C	#4 ACSR	7.44Y	124.0	0.00	1.00	1.95	1	14	3	98	0.00	0.0	3.301	0.001	0	0	0	2
PD.7317	PL.47793	C	60QA	7.44Y	124.0	0.00	1.00	1.95	3	14	3	98	0.00	0.0	3.301	0.001	0	0	0	2
PL.47794	PD.7317	C	#4 ACSR	7.44Y	124.0	0.00	1.00	1.95	1	14	3	98	0.00	0.0	3.331	0.030	14	3	2	2
PL.58176	PL.47785	B	6 A (CWC)	7.44Y	124.0	0.00	0.98	3.45	2	25	6	97	0.00	0.0	3.247	0.002	0	0	0	3
PD.8601	PL.58176	B	20T	7.44Y	124.0	0.00	0.98	3.45	0	25	6	97	0.00	0.0	3.247	0.002	0	0	0	3
PL.58177	PD.8601	B	6 A (CWC)	7.44Y	124.0	0.00	0.98	3.45	2	25	6	97	0.00	0.0	3.285	0.038	15	3	2	3
PL.47791	PL.58177	B	6 A (CWC)	7.44Y	124.0	0.01	0.99	1.36	1	10	2	98	0.00	0.0	3.629	0.344	10	2	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: Brodhead

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.47593	PL.47592	C	6 A (CWC)	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	1.928	0.006	0	0	0	0
PD.7360	PL.47593	C	75QA	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	1.928	0.006	0	0	0	0
PL.47594	PD.7360	C	6 A (CWC)	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	2.019	0.091	0	0	0	0
PL.47586	PL.47585	B	6 A (CWC)	7.30Y	121.6	0.00	3.37	7.30	5	52	12	97	0.00	0.0	1.819	0.005	0	0	0	6
PD.7603	PL.47586	B	70L	7.30Y	121.6	0.00	3.37	7.30	10	52	12	97	0.00	0.0	1.819	0.005	0	0	0	6
PL.58946	PD.7603	B	6 A (CWC)	7.30Y	121.6	0.01	3.38	7.30	5	52	12	97	0.00	0.0	1.839	0.020	0	0	0	6
PD.8748	PL.58946	B	40QA	7.30Y	121.6	0.00	3.38	7.30	18	52	12	97	0.00	0.0	1.839	0.020	0	0	0	6
PL.58947	PD.8748	B	6 A (CWC)	7.30Y	121.6	0.00	3.38	7.30	5	52	12	97	0.00	0.0	1.839	0.000	0	0	0	6
PL.47174	PL.58947	B	1/0 AL URD	7.30Y	121.6	0.03	3.41	7.30	4	52	12	97	0.01	0.0	1.950	0.111	0	0	0	6
PD.7182-A	PL.47174	B	Closed	7.30Y	121.6	0.00	3.41	7.30	0	52	12	97	0.00	0.0	1.950	0.111	0	0	0	6
PD.7182-B	PD.7182-A	B	Closed	7.30Y	121.6	0.00	3.41	7.30	0	52	12	97	0.00	0.0	1.950	0.111	0	0	0	6
PL.47587	PD.7182-B	B	6 A (CWC)	7.29Y	121.5	0.07	3.48	7.30	5	52	12	97	0.03	0.1	2.179	0.229	4	1	1	6
PL.47588	PL.47587	B	6 A (CWC)	7.29Y	121.5	0.02	3.50	6.72	5	48	11	97	0.01	0.0	2.272	0.093	17	4	1	5
PL.60160	PL.47588	B	#4 ACSR	7.29Y	121.5	0.00	3.50	1.55	1	11	2	98	0.00	0.0	2.276	0.003	0	0	0	1
PD.8922	PL.60160	B	15T	7.29Y	121.5	0.00	3.50	1.55	0	11	2	98	0.00	0.0	2.276	0.003	0	0	0	1
PL.60161	PD.8922	B	#4 ACSR	7.29Y	121.5	0.00	3.50	1.55	1	11	2	98	0.00	0.0	2.369	0.093	11	2	1	1
PL.47589	PL.47588	B	6 A (CWC)	7.29Y	121.5	0.04	3.54	2.73	2	19	4	98	0.01	0.0	2.606	0.334	0	0	0	3
PL.47377	PL.47589	B	#4 ACSR	7.29Y	121.4	0.01	3.55	1.50	1	11	2	98	0.00	0.0	2.875	0.269	11	2	2	2
PL.47590	PL.47589	B	#4 ACSR	7.29Y	121.5	0.00	3.55	1.23	1	9	2	98	0.00	0.0	2.669	0.063	0	0	0	1
PL.47639	PL.47590	B	#4 ACSR	7.29Y	121.5	0.00	3.55	1.23	1	9	2	98	0.00	0.0	2.810	0.141	9	2	1	1
PL.47591	PL.47590	B	#4 ACSR	7.29Y	121.5	0.00	3.55	0.00	0	0	0	100	0.00	0.0	2.748	0.079	0	0	0	0
PL.47378	PL.47589	B	6 A (CWC)	7.29Y	121.5	0.00	3.54	0.00	0	0	0	100	0.00	0.0	2.804	0.198	0	0	0	0
PL.65285	PL.65278	C	#1/0 ACSR	7.31Y	121.8	0.00	3.23	8.41	4	60	13	98	0.00	0.0	1.738	0.002	0	0	0	11
PD.9567	PL.65285	C	30T	7.31Y	121.8	0.00	3.23	8.41	0	60	13	98	0.00	0.0	1.738	0.002	0	0	0	11
PL.65286	PD.9567	C	#1/0 ACSR	7.31Y	121.8	0.01	3.24	8.41	4	60	13	98	0.00	0.0	1.794	0.056	0	0	0	11
PL.65287	PL.65286	C	#1/0 ACSR	7.30Y	121.7	0.01	3.25	8.41	4	60	13	98	0.00	0.0	1.849	0.056	0	0	0	11
PL.65288	PL.65287	C	#1/0 ACSR	7.30Y	121.7	0.01	3.26	7.94	3	57	13	97	0.00	0.0	1.898	0.049	5	1	2	7
PL.47671	PL.65288	C	#2 ACSR	7.30Y	121.7	0.00	3.27	4.71	3	34	7	98	0.00	0.0	1.936	0.038	34	7	3	3
PL.57748	PL.65288	C	#2 ACSR	7.30Y	121.7	0.00	3.26	2.55	1	18	4	98	0.00	0.0	1.948	0.050	18	4	2	2
PL.65289	PL.65287	C	#1/0 ACSR	7.30Y	121.7	0.00	3.26	0.46	0	3	1	95	0.00	0.0	1.894	0.045	0	0	1	4
PL.65290	PL.65289	C	#1/0 ACSR	7.30Y	121.7	0.00	3.26	0.45	0	3	1	95	0.00	0.0	1.945	0.052	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: Brodhead

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.65291	PL.65290	C	#1/0 ACSR	7.30Y	121.7	0.00	3.26	0.45	0	3	1	95	0.00	0.0	1.972	0.027	0	0	0	3
PL.65292	PL.65291	C	#1/0 ACSR	7.30Y	121.7	0.00	3.26	0.45	0	3	1	95	0.00	0.0	2.008	0.036	0	0	0	3
PL.65293	PL.65292	C	#1/0 ACSR	7.30Y	121.7	0.00	3.26	0.45	0	3	1	95	0.00	0.0	2.046	0.038	0	0	0	3
PL.65294	PL.65293	C	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.45	0	3	1	95	0.00	0.0	2.138	0.092	0	0	0	2
PL.65282	PL.65294	C	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.45	0	3	1	95	0.00	0.0	2.138	0.000	0	0	0	2
PL.65283	PL.65282	C	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.45	0	3	1	95	0.00	0.0	2.194	0.056	3	1	2	2
PL.65295	PL.65293	C	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	2.191	0.144	0	0	1	1
PL.47351	PL.48280	A	6 A (CWC)	7.35Y	122.4	0.00	2.58	0.00	0	0	0	100	0.00	0.0	1.379	0.008	0	0	0	0
PD.7417	PL.47351	A	75QA	7.35Y	122.4	0.00	2.58	0.00	0	0	0	100	0.00	0.0	1.379	0.008	0	0	0	0
PL.47352	PD.7417	A	6 A (CWC)	7.35Y	122.4	0.00	2.58	0.00	0	0	0	100	0.00	0.0	1.488	0.109	0	0	0	0
PL.61855	PL.48271	A	#1/0 ACSR	7.36Y	122.6	0.00	2.37	0.80	0	6	1	99	0.00	0.0	1.298	0.044	6	1	1	1
PL.47696	PL.48270	A	#2 ACSR	7.36Y	122.7	0.00	2.27	0.00	0	0	0	100	0.00	0.0	1.261	0.057	0	0	0	0
PL.48272	PL.48270	A	#2 ACSR	7.36Y	122.7	0.00	2.27	2.41	1	17	4	97	0.00	0.0	1.233	0.029	10	2	1	2
PL.48273	PL.48272	A	#2 ACSR	7.36Y	122.7	0.00	2.28	1.08	1	8	2	97	0.00	0.0	1.267	0.034	8	2	1	1
PL.48274	PL.48273	A	#2 ACSR	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	1.332	0.065	0	0	0	0
PL.47157	PL.48266	A	6 A (CWC)	7.37Y	122.9	0.01	2.11	2.68	2	19	4	98	0.00	0.0	1.296	0.189	19	4	2	2
PL.58417	PL.48266	A	6 A (CWC)	7.37Y	122.9	0.00	2.10	1.92	1	14	3	98	0.00	0.0	1.111	0.004	0	0	0	2
PD.8583	PL.58417	A	50T	7.37Y	122.9	0.00	2.10	1.92	0	14	3	98	0.00	0.0	1.111	0.004	0	0	0	2
PL.58418	PD.8583	A	6 A (CWC)	7.37Y	122.9	0.01	2.11	1.92	1	14	3	98	0.00	0.0	1.266	0.154	4	1	1	2
PL.58416	PL.58418	A	6 A (CWC)	7.37Y	122.9	0.00	2.11	1.33	1	10	2	98	0.00	0.0	1.311	0.046	10	2	1	1
PL.47536	PL.48258	B	#2 ACSR	7.44Y	124.0	0.00	1.00	0.84	0	6	1	99	0.00	0.0	0.592	0.077	6	1	1	1
PL.58593	PL.58386	C	#1/0 ACSR	7.49Y	124.8	0.00	0.18	7.02	3	51	11	98	0.00	0.0	0.089	0.004	0	0	0	8
PD.8229	PL.58593	C	75QA	7.49Y	124.8	0.00	0.18	7.02	9	51	11	98	0.00	0.0	0.089	0.004	0	0	0	8
PL.56195	PD.8229	C	#1/0 ACSR	7.49Y	124.8	0.02	0.19	7.02	3	51	11	98	0.01	0.0	0.185	0.096	0	0	0	8
PL.56196	PL.56195	C	#1/0 ACSR	7.49Y	124.8	0.00	0.20	7.02	3	51	11	98	0.00	0.0	0.211	0.026	1	0	1	8
PL.56197	PL.56196	C	#1/0 ACSR	7.49Y	124.8	0.02	0.22	6.89	3	50	11	98	0.01	0.0	0.361	0.150	0	0	0	7
PL.56198	PL.56197	C	#1/0 ACSR	7.49Y	124.8	0.00	0.22	0.82	0	6	1	99	0.00	0.0	0.400	0.040	6	1	1	1
PL.56199	PL.56197	C	#1/0 ACSR	7.49Y	124.8	0.01	0.23	6.06	3	44	10	98	0.00	0.0	0.428	0.067	0	0	0	6
PL.56200	PL.56199	C	#1/0 ACSR	7.48Y	124.7	0.02	0.25	6.06	3	44	10	98	0.01	0.0	0.611	0.183	0	0	0	6
PL.56201	PL.56200	C	#1/0 ACSR	7.48Y	124.7	0.02	0.28	6.06	3	44	10	98	0.01	0.0	0.782	0.171	0	0	0	6
PL.56203	PL.56201	C	6 A (CWC)	7.48Y	124.7	0.02	0.29	4.65	3	34	8	97	0.00	0.0	0.860	0.078	3	1	1	5

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Balanced Voltage Drop Report
Source: Brodhead

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.56206	PL.56203	C	6 A (CWC)	7.48Y	124.7	0.01	0.30	2.22	2	16	4	97	0.00	0.0	0.912	0.052	0	0	0	3
PL.56207	PL.56206	C	6 A (CWC)	7.48Y	124.7	0.00	0.30	2.22	2	16	4	97	0.00	0.0	0.973	0.061	10	2	2	3
PL.56205	PL.56207	C	6 A (CWC)	7.48Y	124.7	0.00	0.30	0.84	1	6	1	99	0.00	0.0	0.988	0.015	6	1	1	1
PL.56204	PL.56203	C	6 A (CWC)	7.48Y	124.7	0.01	0.30	2.02	1	15	3	98	0.00	0.0	1.103	0.243	15	3	1	1
PL.56202	PL.56201	C	6 A (CWC)	7.48Y	124.7	0.00	0.28	1.42	1	10	2	98	0.00	0.0	0.858	0.076	10	2	1	1
PL.58390	Brodhead	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	117.48	23	2543	721	96	0.05	0.0	0.004	0.004	0	0	0	434
PL.58594	PL.58390	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	117.48	23	2543	721	96	0.04	0.0	0.008	0.004	0	0	0	434
---------- Feeder No. 3 (Ottowa F3) Beginning with Device PD.8622 ----------																				
PD.8622	PL.58594	ABC	400VWE	7.50Y	125.0	0.00	0.01	117.48	0	2543	721	96	0.00	0.0	0.008	0.004	0	0	0	434
PL.58391	PD.8622	ABC	336 MCM AC	7.49Y	124.9	0.14	0.14	117.48	23	2543	721	96	1.81	0.1	0.164	0.156	0	0	0	434
PL.58393	PL.58391	ABC	336 MCM AC	7.49Y	124.8	0.08	0.23	117.18	23	2534	716	96	1.08	0.0	0.257	0.094	12	3	1	432
PL.57404	PL.58393	ABC	336 MCM AC	7.48Y	124.7	0.04	0.27	116.62	22	2521	710	96	0.57	0.0	0.307	0.049	0	0	1	431
PL.61722	PL.57404	ABC	336 MCM AC	7.48Y	124.6	0.13	0.39	116.61	22	2520	709	96	1.66	0.1	0.451	0.145	0	0	0	430
PL.61723	PL.61722	ABC	336 MCM AC	7.45Y	124.2	0.41	0.80	116.18	22	2509	703	96	5.35	0.2	0.922	0.471	0	0	0	429
PL.61726	PL.61723	ABC	336 MCM AC	7.45Y	124.1	0.08	0.88	116.01	22	2500	690	96	1.01	0.0	1.011	0.089	0	0	0	426
PD.9168-A	PL.61726	ABC	Closed	7.45Y	124.1	0.00	0.88	116.01	0	2499	687	96	0.00	0.0	1.011	0.089	0	0	0	426
PD.9168-B	PD.9168-A	ABC	Closed	7.45Y	124.1	0.00	0.88	116.01	0	2499	687	96	0.00	0.0	1.011	0.089	0	0	0	426
PL.61727	PD.9168-B	ABC	336 MCM AC	7.44Y	124.1	0.07	0.94	116.01	22	2499	687	96	0.88	0.0	1.089	0.078	2	0	1	426
PL.52270	PL.61727	ABC	336 MCM AC	7.42Y	123.7	0.40	1.35	115.90	22	2496	685	96	5.32	0.2	1.559	0.470	0	0	0	425
PL.52271	PL.52270	B	#2 ACSR	7.42Y	123.7	0.00	1.35	0.00	0	0	0	100	0.00	0.0	1.563	0.004	0	0	0	0
PD.7310	PL.52271	B	70QA	7.42Y	123.7	0.00	1.35	0.00	0	0	0	100	0.00	0.0	1.563	0.004	0	0	0	0
PL.49184	PD.7310	B	#2 ACSR	7.42Y	123.7	0.00	1.35	0.00	0	0	0	100	0.00	0.0	1.832	0.270	0	0	0	0
PL.52272	PL.52270	ABC	336 MCM AC	7.39Y	123.2	0.42	1.76	115.90	22	2491	672	97	5.56	0.2	2.050	0.491	0	0	0	425
PL.58617	PL.52272	ABC	336 MCM AC	7.39Y	123.2	0.07	1.83	115.38	22	2474	657	97	0.89	0.0	2.130	0.080	0	0	0	423
PD.8626-A	PL.58617	ABC	Closed	7.39Y	123.2	0.00	1.83	115.38	0	2473	655	97	0.00	0.0	2.130	0.080	0	0	0	423
PD.8626-B	PD.8626-A	ABC	Closed	7.39Y	123.2	0.00	1.83	115.38	0	2473	655	97	0.00	0.0	2.130	0.080	0	0	0	423
PL.63423	PD.8626-B	ABC	336 MCM AC	7.39Y	123.1	0.03	1.86	115.38	22	2473	655	97	0.40	0.0	2.165	0.035	0	0	0	423
PL.63422	PL.63423	ABC	336 MCM AC	7.39Y	123.1	0.00	1.86	115.38	22	2472	654	97	0.00	0.0	2.165	0.000	0	0	0	423
PL.58618	PL.63422	ABC	336 MCM AC	7.39Y	123.1	0.03	1.89	114.84	22	2461	651	97	0.37	0.0	2.198	0.033	0	0	0	421

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: Brodhead

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.62964	PL.58618	ABC	336 MCM AC	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	2.210	0.011	0	0	0	0
PD.9400-A	PL.62964	ABC	Open	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	2.210	0.011	0	0	0	0
PL.58623	PL.58618	ABC	336 MCM AC	7.38Y	123.0	0.15	2.04	114.84	22	2460	650	97	2.05	0.1	2.382	0.184	0	0	0	421
PL.58622	PL.58623	ABC	336 MCM AC	7.37Y	122.9	0.07	2.12	114.84	22	2458	646	97	0.95	0.0	2.468	0.086	0	0	0	421
PL.58626	PL.58622	ABC	336 MCM AC	7.37Y	122.8	0.08	2.20	114.84	22	2457	643	97	1.10	0.0	2.567	0.099	0	0	0	421
PL.58627	PL.58626	ABC	336 MCM AC	7.37Y	122.8	0.02	2.22	114.84	22	2456	641	97	0.24	0.0	2.588	0.021	0	0	0	421
PL.58635	PL.58627	ABC	336 MCM AC	7.36Y	122.7	0.06	2.28	114.84	22	2456	640	97	0.83	0.0	2.663	0.075	0	0	0	421
PL.58636	PL.58635	ABC	336 MCM AC	7.35Y	122.6	0.15	2.43	114.84	22	2455	638	97	2.04	0.1	2.847	0.184	0	0	0	421
PL.58637	PL.58636	ABC	336 MCM AC	7.34Y	122.4	0.17	2.60	114.52	22	2446	632	97	2.25	0.1	3.051	0.204	0	0	0	419
PL.58721	PL.58637	ABC	336 MCM AC	7.34Y	122.3	0.11	2.72	114.52	22	2444	627	97	1.52	0.1	3.188	0.137	0	0	0	419
PL.58675	PL.58721	ABC	336 MCM AC	7.33Y	122.2	0.09	2.81	114.52	22	2443	623	97	1.20	0.0	3.296	0.108	0	0	0	419
PL.58859	PL.58675	ABC	336 MCM AC	7.32Y	122.0	0.22	3.03	114.52	22	2441	620	97	2.96	0.1	3.564	0.268	0	0	0	419
PL.60170	PL.58859	ABC	336 MCM AC	7.31Y	121.8	0.21	3.24	114.52	22	2438	614	97	2.87	0.1	3.824	0.260	0	0	0	419
PL.64130	PL.60170	ABC	336 MCM AC	7.30Y	121.7	0.03	3.27	114.52	22	2435	607	97	0.39	0.0	3.860	0.036	1	0	1	419
PL.64131	PL.64130	ABC	336 MCM AC	7.30Y	121.7	0.06	3.33	114.49	22	2434	606	97	0.79	0.0	3.932	0.072	0	0	0	418
PL.60172	PL.64131	ABC	336 MCM AC	7.29Y	121.5	0.17	3.50	114.49	22	2434	604	97	2.25	0.1	4.135	0.204	0	0	0	417
PL.60171	PL.60172	ABC	336 MCM AC	7.28Y	121.3	0.20	3.69	114.49	22	2431	599	97	2.65	0.1	4.376	0.240	0	0	0	417
PL.60165	PL.60171	ABC	336 MCM AC	7.26Y	121.0	0.29	3.98	114.49	22	2429	592	97	3.92	0.2	4.731	0.355	0	0	0	417
PL.60166	PL.60165	ABC	#3/0 ACSR	7.26Y	121.0	0.07	4.05	114.49	38	2425	583	97	1.04	0.0	4.778	0.047	1	0	1	417
PL.60167	PL.60166	ABC	#3/0 ACSR	7.25Y	120.9	0.08	4.13	114.42	38	2422	581	97	1.26	0.1	4.835	0.057	0	0	0	416
PL.60164	PL.60167	ABC	336 MCM AC	7.24Y	120.7	0.12	4.25	114.42	22	2421	580	97	1.65	0.1	4.986	0.151	14	3	2	416
PL.47205	PL.60164	ABC	336 MCM AC	7.24Y	120.7	0.03	4.28	113.78	22	2406	573	97	0.44	0.0	5.026	0.040	22	5	3	414
PL.47206	PL.47205	ABC	336 MCM AC	7.24Y	120.7	0.05	4.33	112.75	22	2383	567	97	0.68	0.0	5.090	0.064	3	1	1	411
PL.47774	PL.47206	A	#4 ACSR	7.24Y	120.7	0.00	4.33	2.00	2	14	3	98	0.00	0.0	5.092	0.002	0	0	0	1
PD.7525	PL.47774	A	70QA	7.24Y	120.7	0.00	4.33	2.00	0	14	3	98	0.00	0.0	5.092	0.002	0	0	0	1
PL.47775	PD.7525	A	#4 ACSR	7.24Y	120.7	0.00	4.34	2.00	2	14	3	98	0.00	0.0	5.191	0.098	14	3	1	1
PL.47776	PL.47206	ABC	336 MCM AC	7.24Y	120.6	0.04	4.37	111.92	22	2365	561	97	0.51	0.0	5.139	0.049	0	0	0	409
PL.47777	PL.47776	ABC	336 MCM AC	7.24Y	120.6	0.04	4.41	111.82	22	2363	560	97	0.53	0.0	5.189	0.051	0	0	0	407
PL.58936	PL.47777	ABC	336 MCM AC	7.24Y	120.6	0.00	4.41	111.82	22	2362	558	97	0.01	0.0	5.190	0.001	0	0	0	407
PD.8662	PL.58936	ABC	200L	7.24Y	120.6	0.00	4.41	111.82	0	2362	558	97	0.00	0.0	5.190	0.001	0	0	0	407
PL.58939	PD.8662	ABC	336 MCM AC	7.23Y	120.6	0.03	4.45	111.82	22	2362	558	97	0.45	0.0	5.233	0.042	0	0	0	407

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: Brodhead

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
RG.57	PL.58939	ABC	114.3 KVA	7.47Y	124.4	-3.89	0.56	111.82	75	2362	557	97	percent Boost= 3.12 Tap= 5.0							407
PL.58940	RG.57	ABC	336 MCM AC	7.47Y	124.4	0.02	0.58	108.33	21	2362	557	97	0.32	0.0	5.265	0.033	0	0	1	407
PL.58937	PL.58940	A	#2 ACSR	7.46Y	124.4	0.00	0.58	3.30	2	24	5	98	0.00	0.0	5.267	0.002	0	0	0	3
PD.7408	PL.58937	A	50QA	7.46Y	124.4	0.00	0.58	3.30	7	24	5	98	0.00	0.0	5.267	0.002	0	0	0	3
PL.48744	PD.7408	A	#2 ACSR	7.46Y	124.4	0.00	0.59	3.30	2	24	5	98	0.00	0.0	5.300	0.033	4	1	1	3
PL.61359	PL.48744	A	#2 ACSR	7.46Y	124.4	0.01	0.60	2.71	2	20	4	98	0.00	0.0	5.530	0.230	20	4	2	2
PL.58938	PL.58940	ABC	336 MCM AC	7.46Y	124.4	0.03	0.61	107.23	21	2337	551	97	0.35	0.0	5.301	0.036	6	1	1	403
PL.48745	PL.58938	ABC	336 MCM AC	7.46Y	124.3	0.05	0.66	106.93	21	2330	549	97	0.59	0.0	5.362	0.061	0	0	0	402
PL.48748	PL.48745	A	#2 ACSR	7.46Y	124.3	0.00	0.66	0.99	1	7	2	96	0.00	0.0	5.364	0.002	0	0	0	1
PD.7533	PL.48748	A	40QA	7.46Y	124.3	0.00	0.66	0.99	2	7	2	96	0.00	0.0	5.364	0.002	0	0	0	1
PL.48749	PD.7533	A	#2 ACSR	7.46Y	124.3	0.00	0.66	0.99	1	7	2	96	0.00	0.0	5.436	0.073	7	2	1	1
PL.48750	PL.48745	ABC	336 MCM AC	7.46Y	124.3	0.07	0.73	106.29	20	2316	545	97	0.94	0.0	5.461	0.099	3	1	1	400
PL.48751	PL.48750	ABC	336 MCM AC	7.45Y	124.2	0.03	0.76	106.13	20	2311	542	97	0.43	0.0	5.506	0.045	0	0	0	399
PL.48752	PL.48751	ABC	336 MCM AC	7.45Y	124.2	0.00	0.77	106.13	20	2311	541	97	0.01	0.0	5.508	0.001	0	0	0	399
PL.48753	PL.48752	ABC	336 MCM AC	7.45Y	124.1	0.10	0.87	106.13	20	2311	541	97	1.27	0.1	5.641	0.134	2	1	1	399
PL.47955	PL.48753	ABC	336 MCM AC	7.45Y	124.1	0.03	0.90	106.02	20	2307	537	97	0.43	0.0	5.687	0.045	0	0	0	398
PL.48915	PL.47955	B	#2 ACSR	7.45Y	124.1	0.00	0.90	0.86	0	6	1	99	0.00	0.0	5.688	0.001	0	0	0	1
PD.7410	PL.48915	B	40QA	7.45Y	124.1	0.00	0.90	0.86	2	6	1	99	0.00	0.0	5.688	0.001	0	0	0	1
PL.48916	PD.7410	B	#2 ACSR	7.45Y	124.1	0.00	0.90	0.86	0	6	1	99	0.00	0.0	5.744	0.056	6	1	1	1
PL.48914	PL.47955	ABC	336 MCM AC	7.44Y	124.0	0.07	0.97	105.73	20	2301	535	97	0.84	0.0	5.776	0.089	7	3	1	397
PL.48917	PL.48914	ABC	336 MCM AC	7.43Y	123.9	0.12	1.09	105.38	20	2293	529	97	1.56	0.1	5.944	0.168	10	2	1	396
PL.48918	PL.48917	B	#2 ACSR	7.43Y	123.9	0.00	1.09	4.74	3	34	8	97	0.00	0.0	5.946	0.002	0	0	0	1
PD.7529	PL.48918	B	40QA	7.43Y	123.9	0.00	1.09	4.74	12	34	8	97	0.00	0.0	5.946	0.002	0	0	0	1
PL.48919	PD.7529	B	#2 ACSR	7.43Y	123.9	0.00	1.09	4.74	3	34	8	97	0.00	0.0	6.005	0.059	34	8	1	1
PL.48920	PL.48917	ABC	336 MCM AC	7.43Y	123.9	0.02	1.11	103.34	20	2247	516	97	0.26	0.0	5.973	0.029	6	1	1	394
PL.48921	PL.48920	ABC	336 MCM AC	7.43Y	123.9	0.03	1.14	103.07	20	2240	514	97	0.42	0.0	6.020	0.047	0	0	0	393
PL.48759	PL.48921	ABC	336 MCM AC	7.43Y	123.8	0.03	1.18	63.17	12	1372	316	97	0.25	0.0	6.093	0.073	0	0	0	238
PL.48764	PL.48759	ABC	336 MCM AC	7.43Y	123.8	0.04	1.21	62.31	12	1353	312	97	0.26	0.0	6.173	0.080	1	0	1	234
PL.48765	PL.48764	C	#2 ACSR	7.43Y	123.8	0.00	1.21	1.60	1	12	3	97	0.00	0.0	6.174	0.002	0	0	0	3
PD.7494	PL.48765	C	25QA	7.43Y	123.8	0.00	1.21	1.60	6	12	3	97	0.00	0.0	6.174	0.002	0	0	0	3
PL.48766	PD.7494	C	#2 ACSR	7.43Y	123.8	0.00	1.21	1.60	1	12	3	97	0.00	0.0	6.195	0.021	12	3	3	3

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Balanced Voltage Drop Report
Source: Brodhead

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.49092	PL.48764	ABC	336 MCM AC	7.43Y	123.8	0.02	1.24	61.73	12	1341	308	97	0.18	0.0	6.230	0.057	0	0	0	230
PL.49093	PL.49092	ABC	336 MCM AC	7.42Y	123.7	0.02	1.26	61.61	12	1338	307	97	0.16	0.0	6.280	0.051	0	0	0	229
PL.62490	PL.49093	B	#2 ACSR	7.42Y	123.7	0.00	1.26	19.60	11	142	32	98	0.00	0.0	6.284	0.003	0	0	0	23
PD.9356	PL.62490	B	30T	7.42Y	123.7	0.00	1.26	19.60	0	142	32	98	0.00	0.0	6.284	0.003	0	0	0	23
PL.62491	PD.9356	B	#2 ACSR	7.42Y	123.7	0.03	1.29	19.60	11	142	32	98	0.04	0.0	6.342	0.058	0	0	0	23
PL.49252	PL.62491	B	#2 ACSR	7.42Y	123.7	0.00	1.29	0.02	0	0	0	100	0.00	0.0	6.343	0.001	0	0	0	1
PD.7368	PL.49252	B	60QA	7.42Y	123.7	0.00	1.29	0.02	0	0	0	100	0.00	0.0	6.343	0.001	0	0	0	1
PL.49253	PD.7368	B	#2 ACSR	7.42Y	123.7	0.00	1.29	0.02	0	0	0	100	0.00	0.0	6.384	0.041	0	0	0	1
PL.49251	PL.49253	B	#2 ACSR	7.42Y	123.7	0.00	1.29	0.02	0	0	0	100	0.00	0.0	6.426	0.042	0	0	1	1
PL.49254	PL.62491	B	#2 ACSR	7.42Y	123.6	0.08	1.37	19.58	11	142	32	98	0.08	0.1	6.475	0.133	0	0	0	22
PL.49255	PL.49254	B	#2 ACSR	7.41Y	123.5	0.09	1.47	18.58	11	134	30	98	0.09	0.1	6.637	0.162	0	0	0	21
PL.49257	PL.49255	B	#2 ACSR	7.40Y	123.3	0.19	1.66	17.82	10	129	29	98	0.18	0.1	6.984	0.347	0	0	0	19
PL.58999	PL.49257	B	#2 ACSR	7.40Y	123.3	0.06	1.72	17.82	10	129	29	98	0.05	0.0	7.093	0.109	2	0	2	19
PL.59000	PL.58999	B	#2 ACSR	7.39Y	123.1	0.14	1.86	17.53	10	127	28	98	0.13	0.1	7.376	0.283	15	3	1	17
PL.49262	PL.59000	B	#2 ACSR	7.39Y	123.1	0.05	1.91	15.50	9	112	25	98	0.04	0.0	7.486	0.110	9	2	1	16
PL.49079	PL.49262	B	#2 ACSR	7.38Y	123.1	0.02	1.93	7.58	4	55	12	98	0.01	0.0	7.587	0.101	11	3	1	10
PL.49080	PL.49079	B	#2 ACSR	7.38Y	123.1	0.01	1.94	6.01	3	43	10	97	0.00	0.0	7.647	0.060	0	0	0	9
PL.49081	PL.49080	B	#2 ACSR	7.38Y	123.1	0.00	1.94	1.48	1	11	2	98	0.00	0.0	7.664	0.017	6	1	1	2
PL.49082	PL.49081	B	#2 ACSR	7.38Y	123.1	0.00	1.94	0.63	0	5	1	98	0.00	0.0	7.687	0.023	5	1	1	1
PL.49083	PL.49080	B	#2 ACSR	7.38Y	123.1	0.00	1.95	4.52	3	33	7	98	0.00	0.0	7.688	0.040	8	2	1	7
PL.49084	PL.49083	B	#2 ACSR	7.38Y	123.0	0.01	1.96	3.44	2	25	6	97	0.00	0.0	7.768	0.081	5	1	1	6
PL.49085	PL.49084	B	#2 ACSR	7.38Y	123.0	0.01	1.96	2.77	2	20	4	98	0.00	0.0	7.860	0.092	0	0	0	5
PL.47690	PL.49085	B	#2 ACSR	7.38Y	123.0	0.00	1.96	0.01	0	0	0	100	0.00	0.0	7.914	0.055	0	0	1	1
PL.49086	PL.49085	B	#2 ACSR	7.38Y	123.0	0.01	1.97	2.75	2	20	4	98	0.00	0.0	7.941	0.081	0	0	0	4
PL.46197	PL.49086	B	#2 ACSR	7.38Y	123.0	0.00	1.97	0.00	0	0	0	100	0.00	0.0	8.026	0.085	0	0	0	0
PL.49087	PL.49086	B	#2 ACSR	7.38Y	123.0	0.00	1.98	2.26	1	16	4	97	0.00	0.0	8.015	0.074	3	1	1	3
PL.49088	PL.49087	B	#2 ACSR	7.38Y	123.0	0.00	1.98	1.87	1	14	3	98	0.00	0.0	8.038	0.023	0	0	0	2
PL.49089	PL.49088	B	#2 ACSR	7.38Y	123.0	0.01	1.98	1.87	1	14	3	98	0.00	0.0	8.161	0.123	5	1	1	2
PL.49090	PL.49089	B	#2 ACSR	7.38Y	123.0	0.00	1.99	1.23	1	9	2	98	0.00	0.0	8.346	0.185	9	2	1	1
PL.47326	PL.49086	B	#2 ACSR	7.38Y	123.0	0.00	1.97	0.49	0	4	1	97	0.00	0.0	7.987	0.047	4	1	1	1
PL.49077	PL.49262	B	#2 ACSR	7.38Y	123.1	0.01	1.92	3.49	2	25	6	97	0.00	0.0	7.565	0.080	8	2	1	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: Brodhead

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.49078	PL.49077	B	#2 ACSR	7.38Y	123.1	0.00	1.92	2.42	1	17	4	97	0.00	0.0	7.685	0.120	15	3	1	2
PL.49263	PL.49078	B	#2 ACSR	7.38Y	123.1	0.00	1.92	0.27	0	2	0	100	0.00	0.0	7.756	0.071	2	0	1	1
PL.59143	PL.49262	B	#2 ACSR	7.39Y	123.1	0.00	1.91	3.14	2	23	5	98	0.00	0.0	7.489	0.004	0	0	0	2
PD.8888	PL.59143	B	15T	7.39Y	123.1	0.00	1.91	3.14	0	23	5	98	0.00	0.0	7.489	0.004	0	0	0	2
PL.59144	PD.8888	B	#2 ACSR	7.38Y	123.1	0.02	1.93	3.14	2	23	5	98	0.00	0.0	7.703	0.214	0	0	0	2
PL.46196	PL.59144	B	#2 ACSR	7.38Y	123.1	0.00	1.93	1.08	1	8	2	97	0.00	0.0	7.733	0.029	8	2	1	1
PL.49091	PL.59144	B	#2 ACSR	7.38Y	123.1	0.00	1.94	2.06	1	15	3	98	0.00	0.0	7.763	0.059	0	0	0	1
PL.47958	PL.49091	B	#2 ACSR	7.38Y	123.1	0.01	1.95	2.06	1	15	3	98	0.00	0.0	8.130	0.368	15	3	1	1
PL.47648	PL.49091	B	#2 ACSR	7.38Y	123.1	0.00	1.94	0.00	0	0	0	100	0.00	0.0	7.806	0.043	0	0	0	0
PL.49256	PL.49255	B	#2 ACSR	7.41Y	123.5	0.01	1.47	0.76	0	6	1	99	0.00	0.0	6.861	0.224	0	0	0	2
PL.47636	PL.49256	B	#2 ACSR	7.41Y	123.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	6.900	0.039	0	0	0	0
PL.49258	PL.49256	B	#2 ACSR	7.41Y	123.5	0.00	1.48	0.76	0	6	1	99	0.00	0.0	6.988	0.127	0	0	0	2
PL.49260	PL.49258	B	#2 ACSR	7.41Y	123.5	0.00	1.48	0.76	0	6	1	99	0.00	0.0	6.992	0.004	0	0	0	2
PL.49261	PL.49260	B	#2 ACSR	7.41Y	123.5	0.00	1.48	0.76	0	6	1	99	0.00	0.0	7.000	0.008	3	1	1	2
PL.49259	PL.49261	B	#2 ACSR	7.41Y	123.5	0.00	1.48	0.28	0	2	0	100	0.00	0.0	7.138	0.138	2	0	1	1
PL.47278	PL.49254	B	#2 ACSR	7.42Y	123.6	0.00	1.38	1.00	1	7	2	96	0.00	0.0	6.515	0.040	7	2	1	1
PL.49096	PL.49093	ABC	336 MCM AC	7.42Y	123.7	0.02	1.27	55.08	11	1196	275	97	0.11	0.0	6.323	0.043	29	6	2	206
PL.49242	PL.49096	ABC	336 MCM AC	7.42Y	123.7	0.02	1.29	53.52	10	1162	267	97	0.12	0.0	6.373	0.049	8	2	2	203
PL.49243	PL.49242	ABC	336 MCM AC	7.42Y	123.7	0.03	1.32	53.14	10	1153	265	97	0.20	0.0	6.457	0.084	0	0	0	201
PL.49246	PL.49243	C	#2 ACSR	7.42Y	123.7	0.00	1.32	1.56	1	11	3	96	0.00	0.0	6.458	0.001	0	0	0	2
PD.7587	PL.49246	C	40QA	7.42Y	123.7	0.00	1.32	1.56	4	11	3	96	0.00	0.0	6.458	0.001	0	0	0	2
PL.49249	PD.7587	C	#2 ACSR	7.42Y	123.7	0.00	1.32	1.56	1	11	3	96	0.00	0.0	6.496	0.038	11	2	1	2
PL.49250	PL.49249	C	#2 ACSR	7.42Y	123.7	0.00	1.32	0.03	0	0	0	100	0.00	0.0	6.531	0.035	0	0	1	1
PL.49244	PL.49243	A	#2 ACSR	7.42Y	123.7	0.00	1.32	2.02	1	15	3	98	0.00	0.0	6.458	0.001	0	0	0	2
PD.7508	PL.49244	A	40QA	7.42Y	123.7	0.00	1.32	2.02	5	15	3	98	0.00	0.0	6.458	0.001	0	0	0	2
PL.49245	PD.7508	A	#2 ACSR	7.42Y	123.7	0.00	1.33	2.02	1	15	3	98	0.00	0.0	6.508	0.050	7	2	1	2
PL.49247	PL.49245	A	#2 ACSR	7.42Y	123.7	0.00	1.33	1.04	1	8	2	97	0.00	0.0	6.551	0.043	8	2	1	1
PL.49248	PL.49247	A	#2 ACSR	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	6.587	0.036	0	0	0	0
PL.60213	PL.49243	ABC	336 MCM AC	7.42Y	123.6	0.07	1.40	51.95	10	1127	259	97	0.45	0.0	6.656	0.199	6	1	1	197
PL.60216	PL.60213	ABC	336 MCM AC	7.41Y	123.6	0.03	1.43	51.68	10	1121	256	97	0.19	0.0	6.742	0.086	0	0	0	196
PL.60217	PL.60216	ABC	336 MCM AC	7.41Y	123.5	0.04	1.47	46.46	9	1007	231	97	0.23	0.0	6.871	0.129	0	0	0	177

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: Brodhead

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.60214	PL.60217	C	#2 ACSR	7.41Y	123.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	6.877	0.007	0	0	0	1
PD.7413	PL.60214	C	25QA	7.41Y	123.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	6.877	0.007	0	0	0	1
PL.49347	PD.7413	C	#2 ACSR	7.41Y	123.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	6.896	0.018	0	0	1	1
PL.60215	PL.60217	ABC	336 MCM AC	7.41Y	123.5	0.04	1.50	46.46	9	1007	230	97	0.20	0.0	6.980	0.110	0	0	0	176
PL.47289	PL.60215	ABC	336 MCM AC	7.41Y	123.5	0.05	1.55	46.39	9	1005	229	98	0.25	0.0	7.120	0.140	0	0	0	175
PL.47297	PL.47289	C	#2 ACSR	7.41Y	123.4	0.00	1.55	0.77	0	6	1	99	0.00	0.0	7.127	0.007	0	0	0	1
PD.7509	PL.47297	C	25QA	7.41Y	123.4	0.00	1.55	0.77	3	6	1	99	0.00	0.0	7.127	0.007	0	0	0	1
PL.47298	PD.7509	C	#2 ACSR	7.41Y	123.4	0.00	1.55	0.77	0	6	1	99	0.00	0.0	7.176	0.049	6	1	1	1
PL.47290	PL.47289	ABC	336 MCM AC	7.41Y	123.4	0.02	1.57	46.14	9	1000	228	97	0.14	0.0	7.196	0.076	0	0	0	174
PL.47711	PL.47290	ABC	336 MCM AC	7.40Y	123.4	0.04	1.61	44.65	9	967	220	98	0.20	0.0	7.313	0.117	4	1	1	170
PL.49350	PL.47711	ABC	336 MCM AC	7.40Y	123.4	0.03	1.64	44.44	9	963	219	98	0.15	0.0	7.403	0.090	9	2	1	169
PL.49352	PL.49350	ABC	336 MCM AC	7.40Y	123.4	0.01	1.65	44.04	8	954	216	98	0.06	0.0	7.439	0.036	0	0	0	168
PL.49355	PL.49352	ABC	336 MCM AC	7.40Y	123.3	0.02	1.67	43.32	8	938	213	98	0.09	0.0	7.494	0.055	4	1	1	167
PL.49356	PL.49355	ABC	336 MCM AC	7.40Y	123.3	0.01	1.68	43.13	8	934	212	98	0.07	0.0	7.541	0.047	6	1	1	166
PL.49357	PL.49356	ABC	336 MCM AC	7.40Y	123.3	0.04	1.72	42.87	8	928	210	98	0.18	0.0	7.660	0.119	0	0	0	165
PL.49358	PL.49357	ABC	336 MCM AC	7.39Y	123.2	0.09	1.80	42.07	8	911	206	98	0.44	0.0	7.957	0.297	0	0	0	163
PL.49360	PL.49358	ABC	#1/0 ACSR	7.39Y	123.1	0.06	1.87	31.21	14	675	152	98	0.30	0.0	8.073	0.116	0	0	0	118
PL.49361	PL.49360	ABC	#1/0 ACSR	7.39Y	123.1	0.02	1.89	30.45	13	658	148	98	0.10	0.0	8.112	0.040	14	3	2	114
PL.49362	PL.49361	ABC	#1/0 ACSR	7.39Y	123.1	0.02	1.91	29.79	13	644	145	98	0.09	0.0	8.151	0.039	0	0	0	112
PL.48184	PL.49362	ABC	#1/0 ACSR	7.38Y	123.0	0.06	1.97	28.00	12	605	136	98	0.24	0.0	8.270	0.118	11	3	2	103
PL.49366	PL.48184	A	#2 ACSR	7.38Y	123.0	0.00	1.97	0.48	0	3	1	95	0.00	0.0	8.277	0.007	0	0	0	1
PD.7593	PL.49366	A	25QA	7.38Y	123.0	0.00	1.97	0.48	2	3	1	95	0.00	0.0	8.277	0.007	0	0	0	1
PL.49367	PD.7593	A	#2 ACSR	7.38Y	123.0	0.00	1.97	0.48	0	3	1	95	0.00	0.0	8.324	0.047	3	1	1	1
PL.49369	PL.48184	ABC	#1/0 ACSR	7.38Y	123.0	0.03	1.99	27.31	12	590	133	98	0.11	0.0	8.327	0.058	0	0	0	100
PL.49374	PL.49369	C	#2 ACSR	7.38Y	123.0	0.00	1.99	2.18	1	16	3	98	0.00	0.0	8.333	0.006	0	0	0	3
PD.7402	PL.49374	C	25QA	7.38Y	123.0	0.00	1.99	2.18	9	16	3	98	0.00	0.0	8.333	0.006	0	0	0	3
PL.49375	PD.7402	C	#2 ACSR	7.38Y	123.0	0.00	1.99	2.18	1	16	3	98	0.00	0.0	8.366	0.033	16	3	3	3
PL.49372	PL.49369	A	#2 ACSR	7.38Y	123.0	0.00	1.99	1.87	1	13	3	97	0.00	0.0	8.333	0.006	0	0	0	1
PD.7403	PL.49372	A	25QA	7.38Y	123.0	0.00	1.99	1.87	7	13	3	97	0.00	0.0	8.333	0.006	0	0	0	1
PL.49373	PD.7403	A	#2 ACSR	7.38Y	123.0	0.00	1.99	1.87	1	13	3	97	0.00	0.0	8.369	0.036	13	3	1	1
PL.49376	PL.49369	ABC	#1/0 ACSR	7.38Y	123.0	0.05	2.04	25.96	11	561	126	98	0.19	0.0	8.435	0.108	0	0	0	96

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Balanced Voltage Drop Report
Source: Brodhead

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.49377	PL.49376	C	#2 ACSR	7.38Y	123.0	0.00	2.04	1.37	1	10	2	98	0.00	0.0	8.441	0.005	0	0	0	2
PD.7404	PL.49377	C	25QA	7.38Y	123.0	0.00	2.04	1.37	5	10	2	98	0.00	0.0	8.441	0.005	0	0	0	2
PL.49378	PD.7404	C	#2 ACSR	7.38Y	123.0	0.00	2.04	1.37	1	10	2	98	0.00	0.0	8.474	0.033	10	2	2	2
PL.49379	PL.49376	ABC	#1/0 ACSR	7.38Y	122.9	0.02	2.07	25.50	11	551	124	98	0.09	0.0	8.487	0.052	0	0	0	94
PL.49380	PL.49379	ABC	#1/0 ACSR	7.37Y	122.9	0.03	2.09	25.50	11	551	124	98	0.10	0.0	8.544	0.057	0	0	0	94
PL.49187	PL.49380	C	#2 ACSR	7.37Y	122.9	0.00	2.09	1.41	1	10	2	98	0.00	0.0	8.551	0.007	0	0	0	2
PD.7552	PL.49187	C	25QA	7.37Y	122.9	0.00	2.09	1.41	6	10	2	98	0.00	0.0	8.551	0.007	0	0	0	2
PL.49188	PD.7552	C	#2 ACSR	7.37Y	122.9	0.00	2.09	1.41	1	10	2	98	0.00	0.0	8.568	0.017	10	2	2	2
PL.49186	PL.49380	ABC	#1/0 ACSR	7.37Y	122.9	0.03	2.12	25.04	11	540	121	98	0.11	0.0	8.612	0.068	0	0	0	92
PL.49189	PL.49186	ABC	#1/0 ACSR	7.37Y	122.8	0.03	2.15	25.04	11	540	121	98	0.12	0.0	8.686	0.074	0	0	0	92
PL.49190	PL.49189	ABC	#1/0 ACSR	7.37Y	122.8	0.03	2.18	25.04	11	540	121	98	0.11	0.0	8.751	0.065	5	1	1	92
PL.49191	PL.49190	ABC	#1/0 ACSR	7.37Y	122.8	0.04	2.22	24.79	11	535	120	98	0.14	0.0	8.840	0.089	0	0	0	91
PL.49192	PL.49191	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.24	24.27	11	523	117	98	0.08	0.0	8.892	0.052	0	0	1	90
PL.46900	PL.49192	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.25	16.39	7	353	79	98	0.03	0.0	8.935	0.043	0	0	0	61
PL.49195	PL.46900	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.26	16.39	7	353	79	98	0.00	0.0	8.936	0.001	0	0	0	61
PD.7562	PL.49195	ABC	50L	7.36Y	122.7	0.00	2.26	16.39	33	353	79	98	0.00	0.0	8.936	0.001	0	0	0	61
PL.49196	PD.7562	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.27	16.39	7	353	79	98	0.04	0.0	8.992	0.056	0	0	0	61
PL.49197	PL.49196	C	#2 ACSR	7.36Y	122.7	0.00	2.27	2.24	1	16	4	97	0.00	0.0	8.994	0.001	0	0	0	1
PD.7475	PL.49197	C	25QA	7.36Y	122.7	0.00	2.27	2.24	9	16	4	97	0.00	0.0	8.994	0.001	0	0	0	1
PL.49198	PD.7475	C	#2 ACSR	7.36Y	122.7	0.00	2.27	2.24	1	16	4	97	0.00	0.0	9.072	0.078	16	4	1	1
PL.49199	PL.49196	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.30	15.64	7	337	75	98	0.06	0.0	9.082	0.089	15	3	2	60
PL.49200	PL.49199	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.31	14.93	6	322	72	98	0.03	0.0	9.140	0.059	0	0	0	58
PL.49201	PL.49200	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.32	9.79	4	211	47	98	0.01	0.0	9.192	0.051	1	0	2	46
PL.49202	PL.49201	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.33	9.74	4	210	47	98	0.01	0.0	9.250	0.059	0	0	0	44
PL.46489	PL.49202	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.33	9.74	4	210	47	98	0.00	0.0	9.256	0.006	0	0	0	44
PD.7183-A	PL.46489	ABC	Closed	7.36Y	122.7	0.00	2.33	9.74	0	210	47	98	0.00	0.0	9.256	0.006	0	0	0	44
PD.7183-B	PD.7183-A	ABC	Closed	7.36Y	122.7	0.00	2.33	9.74	0	210	47	98	0.00	0.0	9.256	0.006	0	0	0	44
PL.46490	PD.7183-B	ABC	#1/0 ACSR	7.36Y	122.6	0.08	2.41	9.74	4	210	47	98	0.12	0.1	9.771	0.515	16	3	1	44
PL.49203	PL.46490	A	#2 ACSR	7.36Y	122.6	0.00	2.42	6.08	3	44	10	98	0.00	0.0	9.773	0.002	0	0	0	9
PD.7488	PL.49203	A	30T	7.36Y	122.6	0.00	2.42	6.08	0	44	10	98	0.00	0.0	9.773	0.002	0	0	0	9
PL.62919	PD.7488	A	#2 ACSR	7.35Y	122.6	0.02	2.43	6.08	3	44	10	98	0.01	0.0	9.878	0.105	9	2	3	9

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Balanced Voltage Drop Report
Source: Brodhead

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.62920	PL.62919	A	#2 ACSR	7.35Y	122.5	0.02	2.45	4.79	3	34	8	97	0.00	0.0	10.002	0.124	2	0	1	6
PL.49273	PL.62920	A	#2 ACSR	7.35Y	122.5	0.01	2.46	4.48	3	32	7	98	0.00	0.0	10.088	0.086	18	4	2	5
PL.49274	PL.49273	A	#2 ACSR	7.35Y	122.5	0.01	2.47	1.97	1	14	3	98	0.00	0.0	10.202	0.114	3	1	1	3
PL.49276	PL.49274	A	6 A (CWC)	7.35Y	122.5	0.00	2.47	0.84	1	6	1	99	0.00	0.0	10.234	0.032	6	1	1	1
PL.49277	PL.49276	A	6 A (CWC)	7.35Y	122.5	0.00	2.47	0.00	0	0	0	100	0.00	0.0	10.346	0.112	0	0	0	0
PL.49275	PL.49274	A	#2 ACSR	7.35Y	122.5	0.00	2.47	0.74	0	5	1	98	0.00	0.0	10.279	0.077	5	1	1	1
PL.49204	PL.46490	C	#1/0 ACSR	7.36Y	122.6	0.00	2.42	20.94	9	150	34	98	0.00	0.0	9.773	0.002	0	0	0	34
PD.7575	PL.49204	C	40QA	7.36Y	122.6	0.00	2.42	20.94	52	150	34	98	0.00	0.0	9.773	0.002	0	0	0	34
PL.49205	PD.7575	C	#1/0 ACSR	7.35Y	122.6	0.02	2.43	20.94	9	150	34	98	0.02	0.0	9.808	0.035	2	0	1	34
PL.49206	PL.49205	C	#1/0 ACSR	7.35Y	122.6	0.02	2.45	20.72	9	149	33	98	0.02	0.0	9.842	0.034	0	0	0	33
PL.49381	PL.49206	C	#1/0 ACSR	7.35Y	122.5	0.02	2.47	19.26	8	138	31	98	0.02	0.0	9.901	0.058	10	2	1	31
PL.49382	PL.49381	C	#1/0 ACSR	7.35Y	122.5	0.03	2.50	17.90	8	128	29	98	0.02	0.0	9.971	0.070	2	0	1	30
PL.49383	PL.49382	C	#1/0 ACSR	7.35Y	122.5	0.01	2.51	17.66	8	127	28	98	0.01	0.0	10.002	0.031	0	0	1	29
PL.49384	PL.49383	C	#1/0 ACSR	7.35Y	122.4	0.07	2.58	17.62	8	126	28	98	0.06	0.0	10.186	0.184	15	3	1	28
PL.49385	PL.49384	C	#1/0 ACSR	7.34Y	122.4	0.02	2.60	15.53	7	111	25	98	0.01	0.0	10.235	0.049	9	2	1	27
PL.49386	PL.49385	C	#1/0 ACSR	7.34Y	122.4	0.05	2.65	14.32	6	103	23	98	0.03	0.0	10.398	0.162	8	2	1	26
PL.63432	PL.49386	C	#1/0 ACSR	7.34Y	122.4	0.00	2.65	0.00	0	0	0	100	0.00	0.0	10.400	0.002	0	0	0	2
PD.9471	PL.63432	C	20T	7.34Y	122.4	0.00	2.65	0.00	0	0	0	100	0.00	0.0	10.400	0.002	0	0	0	2
PL.63433	PD.9471	C	#1/0 ACSR	7.34Y	122.4	0.00	2.65	0.00	0	0	0	100	0.00	0.0	10.449	0.049	0	0	2	2
PL.49387	PL.49386	C	#1/0 ACSR	7.34Y	122.3	0.05	2.69	13.27	6	95	21	98	0.03	0.0	10.551	0.154	0	0	1	23
PL.49388	PL.49387	C	#1/0 ACSR	7.34Y	122.3	0.02	2.71	13.27	6	95	21	98	0.01	0.0	10.626	0.075	3	1	1	22
PL.46796	PL.49388	C	#2 ACSR	7.34Y	122.3	0.00	2.72	0.90	1	6	1	99	0.00	0.0	10.688	0.062	6	1	3	3
PL.47988	PL.49388	C	#1/0 ACSR	7.34Y	122.3	0.01	2.73	12.00	5	86	19	98	0.01	0.0	10.682	0.056	0	0	0	18
PL.47285	PL.47988	C	#2 ACSR	7.34Y	122.3	0.00	2.73	0.01	0	0	0	100	0.00	0.0	10.728	0.046	0	0	1	1
PL.47989	PL.47988	C	#1/0 ACSR	7.34Y	122.3	0.01	2.74	11.99	5	86	19	98	0.01	0.0	10.719	0.037	0	0	0	17
PL.47627	PL.47989	C	#2 ACSR	7.34Y	122.3	0.00	2.74	1.93	1	14	3	98	0.00	0.0	10.768	0.049	14	3	2	2
PL.47990	PL.47989	C	#1/0 ACSR	7.33Y	122.2	0.02	2.76	10.07	4	72	16	98	0.01	0.0	10.809	0.090	0	0	0	15
PL.47991	PL.47990	C	#1/0 ACSR	7.33Y	122.2	0.01	2.77	10.07	4	72	16	98	0.00	0.0	10.845	0.036	3	1	1	15
PL.47992	PL.47991	C	#1/0 ACSR	7.33Y	122.2	0.02	2.78	9.63	4	69	15	98	0.01	0.0	10.935	0.090	15	3	1	14
PL.47993	PL.47992	C	#1/0 ACSR	7.33Y	122.2	0.02	2.80	7.59	3	54	12	98	0.01	0.0	11.044	0.109	0	0	0	13
PL.47214	PL.47993	C	#4 ACSR	7.33Y	122.2	0.00	2.81	1.87	1	13	3	97	0.00	0.0	11.094	0.050	13	3	2	2

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Balanced Voltage Drop Report
Source: Brodhead

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.47994	PL.47993	C	#1/0 ACSR	7.33Y	122.2	0.01	2.82	5.72	2	41	9	98	0.00	0.0	11.154	0.110	4	1	3	11
PL.58966	PL.47994	C	#1/0 ACSR	7.33Y	122.2	0.00	2.82	3.39	1	24	5	98	0.00	0.0	11.215	0.060	0	0	1	6
PL.58968	PL.58966	C	#2 ACSR	7.33Y	122.2	0.00	2.82	0.00	0	0	0	100	0.00	0.0	11.267	0.053	0	0	0	0
PL.49269	PL.58968	C	#2 ACSR	7.33Y	122.2	0.00	2.82	0.00	0	0	0	100	0.00	0.0	11.305	0.037	0	0	0	0
PL.58967	PL.58966	C	#1/0 ACSR	7.33Y	122.2	0.00	2.82	3.39	1	24	5	98	0.00	0.0	11.252	0.037	15	3	3	5
PL.49270	PL.58967	C	#1/0 ACSR	7.33Y	122.2	0.00	2.82	1.34	1	10	2	98	0.00	0.0	11.304	0.053	3	1	1	2
PL.49271	PL.49270	C	#1/0 ACSR	7.33Y	122.2	0.00	2.83	0.95	0	7	2	96	0.00	0.0	11.355	0.051	0	0	0	1
PL.49272	PL.49271	C	#1/0 ACSR	7.33Y	122.2	0.00	2.83	0.95	0	7	2	96	0.00	0.0	11.390	0.035	7	2	1	1
PL.47407	PL.47994	C	#4 ACSR	7.33Y	122.2	0.00	2.82	1.81	1	13	3	97	0.00	0.0	11.181	0.027	13	3	2	2
PL.49207	PL.49206	C	6 A (CWC)	7.35Y	122.6	0.00	2.45	1.46	1	10	2	98	0.00	0.0	9.872	0.030	6	1	1	2
PL.49208	PL.49207	C	6 A (CWC)	7.35Y	122.5	0.00	2.45	0.68	0	5	1	98	0.00	0.0	10.009	0.136	5	1	1	1
PL.58478	PL.49200	C	6 A (CWC)	7.36Y	122.7	0.00	2.31	15.43	11	111	25	98	0.00	0.0	9.143	0.003	0	0	0	12
PD.8690	PL.58478	C	25T	7.36Y	122.7	0.00	2.31	15.43	0	111	25	98	0.00	0.0	9.143	0.003	0	0	0	12
PL.58479	PD.8690	C	6 A (CWC)	7.35Y	122.6	0.14	2.45	15.43	11	111	25	98	0.11	0.1	9.356	0.213	16	4	1	12
PL.58477	PL.58479	C	6 A (CWC)	7.35Y	122.4	0.12	2.57	13.23	9	95	21	98	0.09	0.1	9.564	0.208	0	0	0	11
PL.49278	PL.58477	C	6 A (CWC)	7.34Y	122.4	0.04	2.61	7.17	5	51	11	98	0.02	0.0	9.700	0.136	7	2	1	6
PL.49280	PL.49278	C	6 A (CWC)	7.34Y	122.4	0.00	2.62	2.23	2	16	4	97	0.00	0.0	9.729	0.029	10	2	1	2
PL.47446	PL.49280	C	6 A (CWC)	7.34Y	122.4	0.00	2.62	0.00	0	0	0	100	0.00	0.0	9.748	0.019	0	0	0	0
PL.49281	PL.49280	C	6 A (CWC)	7.34Y	122.4	0.00	2.62	0.90	1	6	1	99	0.00	0.0	9.751	0.022	6	1	1	1
PL.49279	PL.49281	C	6 A (CWC)	7.34Y	122.4	0.00	2.62	0.00	0	0	0	100	0.00	0.0	9.789	0.037	0	0	0	0
PL.49282	PL.49278	C	#4 ACSR	7.34Y	122.4	0.01	2.62	3.98	3	29	6	98	0.00	0.0	9.753	0.053	11	2	1	3
PL.49283	PL.49282	C	#4 ACSR	7.34Y	122.4	0.00	2.62	2.44	2	17	4	97	0.00	0.0	9.797	0.044	17	4	2	2
PL.47431	PL.58477	C	6 A (CWC)	7.35Y	122.4	0.00	2.57	0.00	0	0	0	100	0.00	0.0	9.651	0.087	0	0	0	0
PL.49286	PL.58477	C	6 A (CWC)	7.34Y	122.4	0.07	2.65	6.06	4	43	10	97	0.02	0.1	9.832	0.268	0	0	0	5
PL.49287	PL.49286	C	6 A (CWC)	7.34Y	122.3	0.01	2.65	2.94	2	21	5	97	0.00	0.0	9.878	0.046	0	0	0	3
PL.47427	PL.49287	C	6 A (CWC)	7.34Y	122.3	0.00	2.65	1.19	1	9	2	98	0.00	0.0	9.926	0.048	9	2	1	1
PL.49285	PL.49287	C	6 A (CWC)	7.34Y	122.3	0.01	2.66	1.75	1	13	3	97	0.00	0.0	10.050	0.172	10	2	1	2
PL.49284	PL.49285	C	6 A (CWC)	7.34Y	122.3	0.00	2.66	0.29	0	2	0	100	0.00	0.0	10.107	0.057	2	0	1	1
PL.47432	PL.49286	C	#4 ACSR	7.34Y	122.3	0.01	2.66	3.13	2	22	5	98	0.00	0.0	9.954	0.123	22	5	2	2
PL.46194	PL.49192	A	6 A (CWC)	7.36Y	122.7	0.04	2.29	23.64	17	170	38	98	0.06	0.0	8.933	0.041	0	0	0	28
PL.61959	PL.46194	A	6 A (CWC)	7.36Y	122.7	0.00	2.29	23.64	17	170	38	98	0.00	0.0	8.934	0.001	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: Brodhead

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.9255	PL.61959	A	35L	7.36Y	122.7	0.00	2.29	23.64	68	170	38	98	0.00	0.0	8.934	0.001	0	0	0	28
PL.61960	PD.9255	A	6 A (CWC)	7.36Y	122.6	0.07	2.36	23.64	17	170	38	98	0.09	0.1	9.004	0.070	4	1	1	28
PL.61962	PL.61960	A	6 A (CWC)	7.35Y	122.5	0.10	2.47	19.24	14	138	31	98	0.10	0.1	9.132	0.127	14	3	1	24
PL.48037	PL.61962	A	6 A (CWC)	7.35Y	122.5	0.06	2.53	16.30	12	117	26	98	0.06	0.0	9.220	0.088	0	0	0	21
PL.48038	PL.48037	A	6 A (CWC)	7.35Y	122.4	0.05	2.58	15.15	11	109	24	98	0.04	0.0	9.294	0.074	0	0	0	20
PL.48039	PL.48038	A	6 A (CWC)	7.34Y	122.4	0.03	2.62	13.93	10	100	22	98	0.03	0.0	9.349	0.055	0	0	0	19
PL.63712	PL.48039	A	6 A (CWC)	7.33Y	122.2	0.14	2.76	13.93	10	100	22	98	0.11	0.1	9.584	0.236	6	1	1	19
PL.63713	PL.63712	A	6 A (CWC)	7.33Y	122.2	0.03	2.78	13.05	9	93	21	98	0.02	0.0	9.632	0.048	10	2	2	18
PL.61945	PL.63713	A	6 A (CWC)	7.33Y	122.1	0.10	2.89	11.59	8	83	19	97	0.06	0.1	9.830	0.198	0	0	1	16
PL.61946	PL.61945	A	6 A (CWC)	7.32Y	122.0	0.07	2.96	11.55	8	83	18	98	0.05	0.1	9.971	0.141	0	0	0	15
PL.48040	PL.61946	A	6 A (CWC)	7.32Y	122.0	0.05	3.01	11.19	8	80	18	98	0.03	0.0	10.066	0.094	0	0	0	13
PL.47741	PL.48040	A	#4 ACSR	7.32Y	122.0	0.00	3.01	1.36	1	10	2	98	0.00	0.0	10.114	0.049	10	2	2	2
PL.48041	PL.48040	A	6 A (CWC)	7.32Y	121.9	0.05	3.05	9.83	7	70	16	97	0.02	0.0	10.169	0.104	0	0	0	11
PL.46909	PL.48041	A	6 A (CWC)	7.31Y	121.8	0.19	3.25	8.85	6	63	14	98	0.09	0.1	10.656	0.487	0	0	0	10
PL.46910	PL.46909	A	6 A (CWC)	7.30Y	121.6	0.12	3.36	8.85	6	63	14	98	0.06	0.1	10.946	0.291	0	0	0	10
PL.47315	PL.46910	A	#4 ACSR	7.30Y	121.6	0.02	3.38	6.23	5	44	10	98	0.01	0.0	11.011	0.065	1	0	1	6
PL.47145	PL.47315	A	#4 ACSR	7.30Y	121.6	0.02	3.40	6.04	5	43	10	97	0.01	0.0	11.098	0.087	12	3	2	5
PL.47146	PL.47145	A	#4 ACSR	7.29Y	121.6	0.03	3.43	4.33	3	31	7	98	0.01	0.0	11.258	0.159	0	0	0	3
PL.47147	PL.47146	A	#4 ACSR	7.29Y	121.6	0.00	3.43	1.89	1	13	3	97	0.00	0.0	11.315	0.057	10	2	1	2
PL.47453	PL.47147	A	#4 ACSR	7.29Y	121.6	0.00	3.44	0.46	0	3	1	95	0.00	0.0	11.392	0.077	3	1	1	1
PL.47148	PL.47147	A	#4 ACSR	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	11.430	0.116	0	0	0	0
PL.47149	PL.47148	A	#4 ACSR	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	11.478	0.048	0	0	0	0
PL.47324	PL.47148	A	#4 ACSR	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	11.456	0.026	0	0	0	0
PL.46925	PL.47146	A	#4 ACSR	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	11.340	0.082	0	0	0	0
PL.46737	PL.47146	A	#4 ACSR	7.29Y	121.6	0.00	3.43	2.43	2	17	4	97	0.00	0.0	11.310	0.052	17	4	1	1
PL.47545	PL.46910	A	#4 ACSR	7.30Y	121.6	0.00	3.36	0.16	0	1	0	100	0.00	0.0	11.062	0.115	1	0	1	1
PL.47312	PL.46910	A	6 A (CWC)	7.30Y	121.6	0.01	3.37	2.46	2	18	4	98	0.00	0.0	11.033	0.086	7	1	1	3
PL.47313	PL.47312	A	6 A (CWC)	7.30Y	121.6	0.00	3.38	1.53	1	11	2	98	0.00	0.0	11.079	0.047	0	0	0	2
PL.47754	PL.47313	A	6 A (CWC)	7.30Y	121.6	0.00	3.38	0.30	0	2	0	100	0.00	0.0	11.128	0.048	2	0	1	1
PL.47314	PL.47313	A	6 A (CWC)	7.30Y	121.6	0.00	3.38	1.23	1	9	2	98	0.00	0.0	11.171	0.091	9	2	1	1
PL.47544	PL.46909	A	#4 ACSR	7.31Y	121.8	0.00	3.25	0.00	0	0	0	100	0.00	0.0	10.711	0.056	0	0	0	0

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Balanced Voltage Drop Report
Source: Brodhead

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.63421	PL.48041	A	#1/0 ACSR	7.32Y	121.9	0.00	3.05	0.98	0	7	2	96	0.00	0.0	10.185	0.016	7	2	1	1
PL.46907	PL.48041	A	6 A (CWC)	7.32Y	121.9	0.00	3.05	0.00	0	0	0	100	0.00	0.0	10.200	0.031	0	0	0	0
PL.46908	PL.46907	A	6 A (CWC)	7.32Y	121.9	0.00	3.05	0.00	0	0	0	100	0.00	0.0	10.289	0.089	0	0	0	0
PL.47286	PL.61946	A	#4 ACSR	7.32Y	122.0	0.00	2.96	0.36	0	3	1	95	0.00	0.0	10.026	0.055	3	1	2	2
PL.46887	PL.48038	A	#4 ACSR	7.35Y	122.4	0.00	2.58	1.22	1	9	2	98	0.00	0.0	9.317	0.023	9	2	1	1
PL.45991	PL.48037	A	#4 ACSR	7.35Y	122.5	0.00	2.53	1.15	1	8	2	97	0.00	0.0	9.266	0.046	8	2	1	1
PL.47533	PL.61962	A	#4 ACSR	7.35Y	122.5	0.00	2.47	1.01	1	7	2	96	0.00	0.0	9.218	0.086	7	2	2	2
PL.61961	PL.61960	A	#4 ACSR	7.36Y	122.6	0.01	2.37	3.79	3	27	6	98	0.00	0.0	9.060	0.055	0	0	0	3
PL.49321	PL.61961	A	#4 ACSR	7.36Y	122.6	0.00	2.37	2.20	2	16	4	97	0.00	0.0	9.124	0.064	16	4	2	2
PL.46195	PL.61961	A	#4 ACSR	7.36Y	122.6	0.00	2.37	1.59	1	11	3	96	0.00	0.0	9.078	0.018	11	3	1	1
PL.49193	PL.49191	C	#2 ACSR	7.37Y	122.8	0.00	2.22	1.57	1	11	3	96	0.00	0.0	8.841	0.001	0	0	0	1
PD.7487	PL.49193	C	25QA	7.37Y	122.8	0.00	2.22	1.57	6	11	3	96	0.00	0.0	8.841	0.001	0	0	0	1
PL.49194	PD.7487	C	#2 ACSR	7.37Y	122.8	0.00	2.22	1.57	1	11	3	96	0.00	0.0	8.897	0.056	11	3	1	1
PL.47276	PL.49362	C	#4/0 ACSR	7.39Y	123.1	0.00	1.91	1.93	1	14	3	98	0.00	0.0	8.179	0.028	14	3	2	2
PL.49365	PL.49362	C	6 A (CWC)	7.39Y	123.1	0.00	1.91	3.44	2	25	6	97	0.00	0.0	8.157	0.006	0	0	0	7
PD.7401	PL.49365	C	40QA	7.39Y	123.1	0.00	1.91	3.44	9	25	6	97	0.00	0.0	8.157	0.006	0	0	0	7
PL.49368	PD.7401	C	6 A (CWC)	7.38Y	123.1	0.02	1.93	3.44	2	25	6	97	0.00	0.0	8.297	0.139	0	0	0	7
PL.49370	PL.49368	C	#4/0 ACSR	7.38Y	123.1	0.00	1.93	1.60	0	12	3	97	0.00	0.0	8.342	0.045	0	0	1	2
PL.49371	PL.49370	C	#4/0 ACSR	7.38Y	123.1	0.00	1.93	1.60	0	12	3	97	0.00	0.0	8.401	0.060	12	3	1	1
PL.63424	PL.49368	C	6 A (CWC)	7.38Y	123.1	0.01	1.94	1.84	1	13	3	97	0.00	0.0	8.450	0.153	0	0	0	5
PL.63425	PL.63424	C	6 A (CWC)	7.38Y	123.1	0.00	1.94	1.84	1	13	3	97	0.00	0.0	8.450	0.000	0	0	2	5
PL.63426	PL.63425	C	#1/0 ACSR	7.38Y	123.1	0.00	1.94	1.84	1	13	3	97	0.00	0.0	8.453	0.004	0	0	0	3
PD.9421	PL.63426	C	25T	7.38Y	123.1	0.00	1.94	1.84	0	13	3	97	0.00	0.0	8.453	0.004	0	0	0	3
PL.63427	PD.9421	C	#1/0 ACSR	7.38Y	123.1	0.00	1.94	1.84	1	13	3	97	0.00	0.0	8.469	0.016	7	2	1	3
PL.63428	PL.63427	C	#1/0 ACSR	7.38Y	123.1	0.00	1.94	0.85	0	6	1	99	0.00	0.0	8.503	0.034	3	1	1	2
PL.63429	PL.63428	C	#1/0 ACSR	7.38Y	123.1	0.00	1.94	0.48	0	3	1	95	0.00	0.0	8.541	0.038	0	0	0	1
PL.63430	PL.63429	C	#1/0 ACSR	7.38Y	123.1	0.00	1.94	0.48	0	3	1	95	0.00	0.0	8.603	0.062	3	1	1	1
PL.49363	PL.49360	C	#2 ACSR	7.39Y	123.1	0.00	1.87	2.29	1	17	4	97	0.00	0.0	8.078	0.006	0	0	0	4
PD.7551	PL.49363	C	40QA	7.39Y	123.1	0.00	1.87	2.29	6	17	4	97	0.00	0.0	8.078	0.006	0	0	0	4
PL.49364	PD.7551	C	#2 ACSR	7.39Y	123.1	0.00	1.87	2.29	1	17	4	97	0.00	0.0	8.110	0.031	17	4	4	4
PL.48042	PL.49358	ABC	#1/0 ACSR	7.39Y	123.2	0.03	1.84	10.86	5	235	53	98	0.06	0.0	8.138	0.181	5	1	1	45

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: Brodhead

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.48043	PL.48042	A	6 A (CWC)	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	8.145	0.006	0	0	0	0
PD.7400	PL.48043	A	25QA	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	8.145	0.006	0	0	0	0
PL.48044	PD.7400	A	6 A (CWC)	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	8.323	0.178	0	0	0	0
PL.48045	PL.48042	ABC	#1/0 ACSR	7.39Y	123.1	0.02	1.86	10.63	5	230	52	98	0.03	0.0	8.253	0.115	0	0	0	44
PL.48046	PL.48045	ABC	#1/0 ACSR	7.39Y	123.1	0.02	1.88	10.63	5	230	52	98	0.03	0.0	8.363	0.110	4	1	1	44
PL.48601	PL.48046	ABC	#1/0 ACSR	7.39Y	123.1	0.02	1.90	10.45	5	226	51	98	0.03	0.0	8.463	0.100	0	0	0	43
PL.49325	PL.48601	B	6 A (CWC)	7.39Y	123.1	0.00	1.90	7.08	5	51	11	98	0.00	0.0	8.469	0.006	0	0	0	12
PD.7510	PL.49325	B	15T	7.39Y	123.1	0.00	1.90	7.08	0	51	11	98	0.00	0.0	8.469	0.006	0	0	0	12
PL.47171	PD.7510	B	6 A (CWC)	7.38Y	123.1	0.02	1.92	7.08	5	51	11	98	0.01	0.0	8.547	0.078	0	0	1	12
PL.47172	PL.47171	B	6 A (CWC)	7.38Y	123.1	0.02	1.95	5.88	4	42	9	98	0.01	0.0	8.637	0.090	0	0	0	10
PL.49044	PL.47172	B	6 A (CWC)	7.38Y	123.0	0.01	1.96	5.88	4	42	9	98	0.00	0.0	8.670	0.033	0	0	0	10
PL.49401	PL.49044	B	#1/0 ACSR	7.38Y	123.0	0.00	1.96	1.45	1	10	2	98	0.00	0.0	8.703	0.033	10	2	3	3
PL.48451	PL.49401	B	#1/0 ACSR	7.38Y	123.0	0.00	1.96	0.00	0	0	0	100	0.00	0.0	8.759	0.056	0	0	0	0
PL.48452	PL.48451	B	#1/0 ACSR	7.38Y	123.0	0.00	1.96	0.00	0	0	0	100	0.00	0.0	8.832	0.074	0	0	0	0
PL.48453	PL.48452	B	#1/0 ACSR	7.38Y	123.0	0.00	1.96	0.00	0	0	0	100	0.00	0.0	8.889	0.057	0	0	0	0
PL.49045	PL.49044	B	6 A (CWC)	7.38Y	123.0	0.01	1.97	4.43	3	32	7	98	0.00	0.0	8.735	0.065	3	1	1	7
PL.48454	PL.49045	B	6 A (CWC)	7.38Y	123.0	0.03	2.00	4.05	3	29	6	98	0.01	0.0	8.918	0.184	12	3	1	6
PL.47673	PL.48454	B	6 A (CWC)	7.38Y	123.0	0.00	2.00	1.08	1	8	2	97	0.00	0.0	8.951	0.032	8	2	1	1
PL.48455	PL.48454	B	6 A (CWC)	7.38Y	123.0	0.00	2.00	1.30	1	9	2	98	0.00	0.0	8.970	0.051	6	1	1	4
PL.48456	PL.48455	B	6 A (CWC)	7.38Y	123.0	0.00	2.00	0.45	0	3	1	95	0.00	0.0	9.021	0.051	0	0	1	3
PL.48457	PL.48456	B	6 A (CWC)	7.38Y	123.0	0.00	2.00	0.44	0	3	1	95	0.00	0.0	9.141	0.120	3	1	1	2
PL.48459	PL.48457	B	6 A (CWC)	7.38Y	123.0	0.00	2.00	0.00	0	0	0	100	0.00	0.0	9.243	0.102	0	0	0	1
PL.48458	PL.48459	B	6 A (CWC)	7.38Y	123.0	0.00	2.00	0.00	0	0	0	100	0.00	0.0	9.303	0.060	0	0	1	1
PL.47394	PL.47171	B	6 A (CWC)	7.38Y	123.1	0.00	1.92	1.16	1	8	2	97	0.00	0.0	8.585	0.038	8	2	1	1
PL.49323	PL.48601	A	6 A (CWC)	7.39Y	123.1	0.01	1.90	24.28	17	175	39	98	0.01	0.0	8.469	0.006	0	0	0	31
PD.7588	PL.49323	A	75QA	7.39Y	123.1	0.00	1.90	24.28	32	175	39	98	0.00	0.0	8.469	0.006	0	0	0	31
PL.49324	PD.7588	A	6 A (CWC)	7.38Y	122.9	0.16	2.07	24.28	17	175	39	98	0.22	0.1	8.620	0.151	0	0	0	31
PL.49322	PL.49324	A	6 A (CWC)	7.37Y	122.9	0.05	2.12	24.28	17	175	39	98	0.07	0.0	8.668	0.048	0	0	1	31
PL.46745	PL.49322	A	6 A (CWC)	7.37Y	122.9	0.00	2.12	0.97	1	7	2	96	0.00	0.0	8.691	0.023	7	2	1	1
PL.49326	PL.49322	A	6 A (CWC)	7.34Y	122.3	0.55	2.67	23.29	17	168	38	98	0.69	0.4	9.197	0.529	3	1	1	29
PL.48027	PL.49326	A	6 A (CWC)	7.34Y	122.3	0.00	2.67	0.34	0	2	1	89	0.00	0.0	9.291	0.094	2	0	1	3

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Balanced Voltage Drop Report
Source: Brodhead

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.48028	PL.48027	A	6 A (CWC)	7.34Y	122.3	0.00	2.67	0.03	0	0	0	100	0.00	0.0	9.401	0.109	0	0	2	2
PL.49327	PL.49326	A	6 A (CWC)	7.34Y	122.3	0.06	2.73	22.50	16	161	36	98	0.08	0.0	9.260	0.063	0	0	0	25
PL.49328	PL.49327	A	6 A (CWC)	7.33Y	122.2	0.05	2.78	20.72	15	148	33	98	0.05	0.0	9.310	0.050	0	0	0	23
PL.49329	PL.49328	A	#4 ACSR	7.33Y	122.2	0.00	2.78	0.54	0	4	1	97	0.00	0.0	9.376	0.066	4	1	1	1
PL.49330	PL.49329	A	#4 ACSR	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	9.472	0.096	0	0	0	0
PL.49031	PL.49328	A	6 A (CWC)	7.33Y	122.2	0.05	2.83	19.09	14	137	30	98	0.05	0.0	9.376	0.066	14	3	1	19
PL.49032	PL.49031	A	6 A (CWC)	7.33Y	122.1	0.05	2.88	17.12	12	123	27	98	0.04	0.0	9.440	0.064	14	3	1	18
PL.60148	PL.49032	A	#1/0 ACSR	7.33Y	122.1	0.00	2.88	0.95	0	7	2	96	0.00	0.0	9.444	0.003	0	0	0	1
PD.8921	PL.60148	A	15T	7.33Y	122.1	0.00	2.88	0.95	0	7	2	96	0.00	0.0	9.444	0.003	0	0	0	1
PL.60149	PD.8921	A	#1/0 ACSR	7.33Y	122.1	0.00	2.88	0.95	0	7	2	96	0.00	0.0	9.484	0.041	7	2	1	1
PL.49033	PL.49032	A	6 A (CWC)	7.33Y	122.1	0.03	2.91	14.27	10	102	23	98	0.02	0.0	9.485	0.044	13	3	2	16
PL.49034	PL.49033	A	6 A (CWC)	7.32Y	122.0	0.07	2.98	12.45	9	89	20	98	0.05	0.1	9.610	0.125	0	0	0	14
PL.47540	PL.49034	A	6 A (CWC)	7.32Y	122.0	0.00	2.98	0.19	0	1	0	100	0.00	0.0	9.664	0.054	1	0	1	1
PL.49035	PL.49034	A	6 A (CWC)	7.32Y	121.9	0.08	3.06	12.26	9	88	19	98	0.05	0.1	9.764	0.155	5	1	1	13
PL.61880	PL.49035	A	#2 ACSR	7.32Y	121.9	0.01	3.07	3.95	2	28	6	98	0.00	0.0	9.838	0.074	4	1	2	5
PL.61882	PL.61880	A	#4 ACSR	7.32Y	121.9	0.00	3.07	1.92	1	14	3	98	0.00	0.0	9.903	0.065	14	3	2	2
PL.61881	PL.61880	A	#2 ACSR	7.32Y	121.9	0.00	3.07	1.53	1	11	2	98	0.00	0.0	9.923	0.085	11	2	1	1
PL.47904	PL.49035	A	#2 ACSR	7.32Y	121.9	0.00	3.06	1.72	1	12	3	97	0.00	0.0	9.779	0.014	12	3	1	1
PL.49036	PL.49035	A	6 A (CWC)	7.31Y	121.9	0.03	3.09	5.87	4	42	9	98	0.01	0.0	9.894	0.130	7	1	1	6
PL.48166	PL.49036	A	#4 ACSR	7.31Y	121.9	0.00	3.09	0.00	0	0	0	100	0.00	0.0	9.966	0.072	0	0	0	0
PL.49039	PL.49036	A	6 A (CWC)	7.31Y	121.9	0.01	3.10	4.71	3	34	7	98	0.00	0.0	9.945	0.051	0	0	0	4
PL.47645	PL.49039	A	6 A (CWC)	7.31Y	121.9	0.00	3.10	0.31	0	2	0	100	0.00	0.0	9.976	0.031	2	0	1	1
PL.49040	PL.49039	A	6 A (CWC)	7.31Y	121.9	0.01	3.11	4.40	3	31	7	98	0.00	0.0	9.987	0.042	0	0	0	3
PL.49041	PL.49040	A	6 A (CWC)	7.31Y	121.9	0.01	3.12	4.40	3	31	7	98	0.00	0.0	10.033	0.046	0	0	0	3
PL.49042	PL.49041	A	6 A (CWC)	7.31Y	121.9	0.00	3.12	4.40	3	31	7	98	0.00	0.0	10.034	0.000	9	2	1	3
PL.49043	PL.49042	A	6 A (CWC)	7.31Y	121.9	0.00	3.13	3.18	2	23	5	98	0.00	0.0	10.096	0.063	23	5	2	2
PL.49037	PL.49036	A	#2 ACSR	7.31Y	121.9	0.00	3.09	0.23	0	2	0	100	0.00	0.0	9.939	0.045	0	0	0	1
PL.49038	PL.49037	A	#2 ACSR	7.31Y	121.9	0.00	3.09	0.23	0	2	0	100	0.00	0.0	9.983	0.044	2	0	1	1
PL.48029	PL.49328	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	1.10	1	8	2	97	0.00	0.0	9.355	0.045	5	1	1	3
PL.47177	PL.48029	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.07	0	0	0	100	0.00	0.0	9.396	0.041	0	0	1	1
PL.49030	PL.48029	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.36	0	3	1	95	0.00	0.0	9.413	0.058	3	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: Brodhead

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.64844	PL.49327	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	1.78	1	13	3	97	0.00	0.0	9.312	0.052	13	3	2	2
PL.49359	PL.49357	C	#2 ACSR	7.40Y	123.3	0.00	1.72	2.39	1	17	4	97	0.00	0.0	7.664	0.004	0	0	0	2
PD.7415	PL.49359	C	25QA	7.40Y	123.3	0.00	1.72	2.39	10	17	4	97	0.00	0.0	7.664	0.004	0	0	0	2
PL.57832	PD.7415	C	#2 ACSR	7.40Y	123.3	0.00	1.72	2.39	1	17	4	97	0.00	0.0	7.710	0.046	17	4	2	2
PL.49353	PL.49352	C	#2 ACSR	7.40Y	123.3	0.00	1.65	2.18	1	16	3	98	0.00	0.0	7.445	0.006	0	0	0	1
PD.7493	PL.49353	C	25QA	7.40Y	123.3	0.00	1.65	2.18	9	16	3	98	0.00	0.0	7.445	0.006	0	0	0	1
PL.49354	PD.7493	C	#2 ACSR	7.40Y	123.3	0.00	1.65	2.18	1	16	3	98	0.00	0.0	7.479	0.034	0	0	0	1
PL.49351	PL.49354	C	#2 ACSR	7.40Y	123.3	0.00	1.66	2.18	1	16	3	98	0.00	0.0	7.592	0.113	16	3	1	1
PL.47291	PL.47290	C	#2 ACSR	7.41Y	123.4	0.00	1.58	4.47	3	32	7	98	0.00	0.0	7.202	0.006	0	0	0	4
PD.7414	PL.47291	C	40QA	7.41Y	123.4	0.00	1.58	4.47	11	32	7	98	0.00	0.0	7.202	0.006	0	0	0	4
PL.47709	PD.7414	C	#2 ACSR	7.41Y	123.4	0.00	1.58	4.47	3	32	7	98	0.00	0.0	7.231	0.028	14	3	2	4
PL.47710	PL.47709	C	#2 ACSR	7.41Y	123.4	0.00	1.58	2.56	1	18	4	98	0.00	0.0	7.305	0.074	18	4	2	2
PL.49348	PL.60215	C	#2 ACSR	7.41Y	123.5	0.00	1.50	0.19	0	1	0	100	0.00	0.0	6.987	0.006	0	0	0	1
PD.7594	PL.49348	C	25QA	7.41Y	123.5	0.00	1.50	0.19	1	1	0	100	0.00	0.0	6.987	0.006	0	0	0	1
PL.49349	PD.7594	C	#2 ACSR	7.41Y	123.5	0.00	1.50	0.19	0	1	0	100	0.00	0.0	7.005	0.018	1	0	1	1
PL.60218	PL.60216	B	#1/0 ACSR	7.41Y	123.6	0.00	1.43	15.67	7	113	25	98	0.00	0.0	6.743	0.002	0	0	0	19
PD.8942	PL.60218	B	25T	7.41Y	123.6	0.00	1.43	15.67	0	113	25	98	0.00	0.0	6.743	0.002	0	0	0	19
PL.60219	PD.8942	B	#1/0 ACSR	7.41Y	123.6	0.01	1.43	15.67	7	113	25	98	0.00	0.0	6.760	0.016	0	0	0	19
PL.60085	PL.60219	B	#1/0 ACSR	7.41Y	123.5	0.05	1.48	15.67	7	113	25	98	0.04	0.0	6.909	0.149	8	2	1	19
PL.47520	PL.60085	B	6 A (CWC)	7.41Y	123.5	0.02	1.50	14.59	10	106	23	98	0.01	0.0	6.935	0.026	0	0	0	18
PL.47295	PL.47520	B	6 A (CWC)	7.41Y	123.5	0.04	1.54	13.04	9	94	21	98	0.03	0.0	7.013	0.078	9	2	2	16
PL.46802	PL.47295	B	6 A (CWC)	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	7.071	0.058	0	0	0	0
PL.64590	PL.47295	B	6 A (CWC)	7.41Y	123.5	0.00	1.54	11.80	8	85	19	98	0.00	0.0	7.013	0.000	0	0	0	14
PL.64589	PL.64590	B	6 A (CWC)	7.40Y	123.4	0.06	1.60	11.80	8	85	19	98	0.04	0.0	7.128	0.115	8	2	2	14
PL.48816	PL.64589	B	6 A (CWC)	7.40Y	123.3	0.13	1.73	10.07	7	73	16	98	0.07	0.1	7.410	0.282	0	0	0	11
PL.60233	PL.48816	B	#4 ACSR	7.40Y	123.3	0.00	1.73	1.65	1	12	3	97	0.00	0.0	7.414	0.004	0	0	0	1
PD.8948	PL.60233	B	15	7.40Y	123.3	0.00	1.73	1.65	11	12	3	97	0.00	0.0	7.414	0.004	0	0	0	1
PL.60234	PD.8948	B	#4 ACSR	7.40Y	123.3	0.00	1.73	1.65	1	12	3	97	0.00	0.0	7.497	0.083	12	3	1	1
PL.59552	PL.48816	B	6 A (CWC)	7.39Y	123.2	0.03	1.76	8.42	6	61	14	97	0.01	0.0	7.507	0.097	11	3	2	10
PL.59551	PL.59552	B	6 A (CWC)	7.39Y	123.2	0.02	1.79	5.51	4	40	9	98	0.01	0.0	7.594	0.087	0	0	0	5
PL.60229	PL.59551	B	#4 ACSR	7.39Y	123.2	0.00	1.79	1.17	1	8	2	97	0.00	0.0	7.597	0.003	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: Brodhead

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.8946	PL.60229	B	15T	7.39Y	123.2	0.00	1.79	1.17	0	8	2	97	0.00	0.0	7.597	0.003	0	0	0	1
PL.60230	PD.8946	B	#4 ACSR	7.39Y	123.2	0.00	1.79	1.17	1	8	2	97	0.00	0.0	7.664	0.066	8	2	1	1
PL.48815	PL.59551	B	6 A (CWC)	7.39Y	123.2	0.02	1.80	4.34	3	31	7	98	0.00	0.0	7.685	0.091	0	0	0	4
PL.60220	PL.48815	B	6 A (CWC)	7.39Y	123.2	0.00	1.80	1.45	1	10	2	98	0.00	0.0	7.688	0.003	0	0	0	2
PD.8943	PL.60220	B	15T	7.39Y	123.2	0.00	1.80	1.45	0	10	2	98	0.00	0.0	7.688	0.003	0	0	0	2
PL.60221	PD.8943	B	6 A (CWC)	7.39Y	123.2	0.00	1.81	1.45	1	10	2	98	0.00	0.0	7.739	0.050	10	2	2	2
PL.48814	PL.48815	B	6 A (CWC)	7.39Y	123.2	0.00	1.80	2.89	2	21	5	97	0.00	0.0	7.697	0.012	9	2	1	2
PL.60254	PL.48814	B	6 A (CWC)	7.39Y	123.2	0.00	1.81	1.62	1	12	3	97	0.00	0.0	7.792	0.094	12	3	1	1
PL.60257	PL.60254	B	6 A (CWC)	7.39Y	123.2	0.00	1.81	0.00	0	0	0	100	0.00	0.0	7.874	0.082	0	0	0	0
PD.8953-B	PL.60257	B	Open	7.39Y	123.2	0.00	1.81	0.00	0	0	0	100	0.00	0.0	7.874	0.082	0	0	0	0
PL.60231	PL.59552	B	6 A (CWC)	7.39Y	123.2	0.00	1.76	1.32	1	10	2	98	0.00	0.0	7.511	0.004	0	0	0	3
PD.8947	PL.60231	B	15T	7.39Y	123.2	0.00	1.76	1.32	0	10	2	98	0.00	0.0	7.511	0.004	0	0	0	3
PL.60232	PD.8947	B	6 A (CWC)	7.39Y	123.2	0.01	1.77	1.32	1	10	2	98	0.00	0.0	7.644	0.133	0	0	0	3
PL.59554	PL.60232	B	6 A (CWC)	7.39Y	123.2	0.00	1.77	1.32	1	10	2	98	0.00	0.0	7.679	0.035	0	0	0	2
PL.59553	PL.59554	B	6 A (CWC)	7.39Y	123.2	0.00	1.78	1.32	1	10	2	98	0.00	0.0	7.733	0.055	0	0	1	2
PL.47960	PL.59553	B	6 A (CWC)	7.39Y	123.2	0.00	1.78	1.29	1	9	2	98	0.00	0.0	7.828	0.095	9	2	1	1
PL.59555	PL.60232	B	#1/0 ACSR	7.39Y	123.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	7.646	0.003	0	0	0	1
PD.8796	PL.59555	B	15T	7.39Y	123.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	7.646	0.003	0	0	0	1
PL.59556	PD.8796	B	#1/0 ACSR	7.39Y	123.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	7.767	0.121	0	0	1	1
PL.60225	PL.64589	B	6 A (CWC)	7.40Y	123.4	0.00	1.60	0.60	0	4	1	97	0.00	0.0	7.128	0.000	0	0	0	1
PD.8944	PL.60225	B	15T	7.40Y	123.4	0.00	1.60	0.60	0	4	1	97	0.00	0.0	7.128	0.000	0	0	0	1
PL.60226	PD.8944	B	6 A (CWC)	7.40Y	123.4	0.00	1.60	0.60	0	4	1	97	0.00	0.0	7.128	0.000	0	0	0	1
PL.60222	PL.60226	B	6 A (CWC)	7.40Y	123.4	0.00	1.60	0.60	0	4	1	97	0.00	0.0	7.210	0.082	4	1	1	1
PL.60223	PL.60226	B	6 A (CWC)	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	7.245	0.117	0	0	0	0
PL.60227	PL.60223	B	6 A (CWC)	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	7.248	0.003	0	0	0	0
PD.8945	PL.60227	B	12T	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	7.248	0.003	0	0	0	0
PL.60228	PD.8945	B	6 A (CWC)	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	7.262	0.014	0	0	0	0
PL.60224	PL.60223	B	6 A (CWC)	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	7.497	0.252	0	0	0	0
PL.47296	PL.47520	B	6 A (CWC)	7.41Y	123.5	0.00	1.50	1.55	1	11	2	98	0.00	0.0	7.023	0.088	11	2	2	2
PL.49097	PL.49096	C	#2 ACSR	7.42Y	123.7	0.00	1.27	0.68	0	5	1	98	0.00	0.0	6.325	0.001	0	0	0	1
PD.7412	PL.49097	C	25QA	7.42Y	123.7	0.00	1.27	0.68	3	5	1	98	0.00	0.0	6.325	0.001	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: Brodhead

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.49098	PD.7412	C	#2 ACSR	7.42Y	123.7	0.00	1.27	0.68	0	5	1	98	0.00	0.0	6.397	0.072	5	1	1	1
PL.49094	PL.49092	B	#2 ACSR	7.43Y	123.8	0.00	1.24	0.36	0	3	1	95	0.00	0.0	6.231	0.002	0	0	0	1
PD.7586	PL.49094	B	20T	7.43Y	123.8	0.00	1.24	0.36	0	3	1	95	0.00	0.0	6.231	0.002	0	0	0	1
PL.49095	PD.7586	B	#2 ACSR	7.43Y	123.8	0.00	1.24	0.36	0	3	1	95	0.00	0.0	6.254	0.023	3	1	1	1
PL.48762	PL.48759	C	#2 ACSR	7.43Y	123.8	0.00	1.18	2.56	1	19	4	98	0.00	0.0	6.094	0.001	0	0	0	3
PD.7309	PL.48762	C	25QA	7.43Y	123.8	0.00	1.18	2.56	10	19	4	98	0.00	0.0	6.094	0.001	0	0	0	3
PL.48763	PD.7309	C	#2 ACSR	7.43Y	123.8	0.00	1.18	2.56	1	19	4	98	0.00	0.0	6.133	0.039	19	4	3	3
PL.48760	PL.48759	A	#2 ACSR	7.43Y	123.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	6.094	0.001	0	0	0	1
PD.7411	PL.48760	A	25QA	7.43Y	123.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	6.094	0.001	0	0	0	1
PL.48761	PD.7411	A	#2 ACSR	7.43Y	123.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	6.108	0.014	0	0	1	1
PL.48922	PL.48921	ABC	336 MCM AC	7.43Y	123.8	0.01	1.16	39.90	8	868	197	98	0.06	0.0	6.061	0.042	0	0	0	155
PL.48923	PL.48922	ABC	336 MCM AC	7.43Y	123.8	0.02	1.17	39.51	8	859	195	98	0.08	0.0	6.119	0.057	0	0	0	152
PL.48757	PL.48923	B	#4 ACSR	7.43Y	123.8	0.00	1.17	2.08	2	15	3	98	0.00	0.0	6.120	0.001	0	0	0	3
PD.7328	PL.48757	B	50QA	7.43Y	123.8	0.00	1.17	2.08	4	15	3	98	0.00	0.0	6.120	0.001	0	0	0	3
PL.48758	PD.7328	B	#4 ACSR	7.43Y	123.8	0.00	1.18	2.08	2	15	3	98	0.00	0.0	6.164	0.044	0	0	0	3
PL.48756	PL.48758	B	#4 ACSR	7.43Y	123.8	0.00	1.18	1.71	1	12	3	97	0.00	0.0	6.194	0.030	12	3	2	2
PL.48755	PL.48756	B	#4 ACSR	7.43Y	123.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	6.216	0.023	0	0	0	0
PL.46804	PL.48758	B	#2 ACSR	7.43Y	123.8	0.00	1.18	0.37	0	3	1	95	0.00	0.0	6.185	0.021	3	1	1	1
PL.47959	PL.48923	ABC	336 MCM AC	7.43Y	123.8	0.05	1.23	38.82	7	844	191	98	0.26	0.0	6.321	0.203	0	0	0	149
PL.48288	PL.47959	C	#2 ACSR	7.43Y	123.8	0.00	1.23	0.58	0	4	1	97	0.00	0.0	6.322	0.001	0	0	0	1
PD.7511	PL.48288	C	25QA	7.43Y	123.8	0.00	1.23	0.58	2	4	1	97	0.00	0.0	6.322	0.001	0	0	0	1
PL.48289	PD.7511	C	#2 ACSR	7.43Y	123.8	0.00	1.23	0.58	0	4	1	97	0.00	0.0	6.401	0.079	4	1	1	1
PL.48287	PL.47959	ABC	336 MCM AC	7.43Y	123.8	0.02	1.24	38.62	7	839	189	98	0.08	0.0	6.383	0.062	15	3	1	148
PL.48290	PL.48287	ABC	#1/0 ACSR	7.42Y	123.7	0.03	1.27	26.29	11	571	129	98	0.11	0.0	6.446	0.063	6	1	1	100
PL.48291	PL.48290	ABC	#1/0 ACSR	7.42Y	123.7	0.02	1.29	25.99	11	565	128	98	0.08	0.0	6.490	0.045	0	0	1	99
PL.49099	PL.48291	ABC	#1/0 ACSR	7.42Y	123.7	0.02	1.32	25.98	11	564	127	98	0.10	0.0	6.544	0.053	0	0	0	98
PL.49264	PL.49099	ABC	#1/0 ACSR	7.42Y	123.7	0.00	1.32	25.98	11	564	127	98	0.00	0.0	6.544	0.001	0	0	0	98
PD.7610	PL.49264	ABC	35L	7.42Y	123.7	0.00	1.32	25.98	74	564	127	98	0.00	0.0	6.544	0.001	0	0	0	98
PL.49265	PD.7610	ABC	#1/0 ACSR	7.42Y	123.6	0.04	1.36	25.98	11	564	127	98	0.16	0.0	6.635	0.091	0	0	0	98
PL.58986	PL.49265	ABC	#1/0 ACSR	7.42Y	123.6	0.03	1.38	20.71	9	449	102	98	0.08	0.0	6.709	0.073	2	0	1	73
PL.58987	PL.58986	ABC	#1/0 ACSR	7.42Y	123.6	0.02	1.41	20.63	9	448	101	98	0.07	0.0	6.773	0.064	3	1	1	72

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Balanced Voltage Drop Report
Source: Brodhead

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.49137	PL.58987	ABC	#1/0 ACSR	7.41Y	123.6	0.01	1.42	20.49	9	445	100	98	0.04	0.0	6.813	0.040	9	2	1	71
PL.49139	PL.49137	ABC	#1/0 ACSR	7.41Y	123.6	0.02	1.44	20.09	9	436	99	98	0.05	0.0	6.857	0.044	0	0	0	70
PL.49141	PL.49139	A	#2 ACSR	7.41Y	123.6	0.00	1.44	2.21	1	16	4	97	0.00	0.0	6.859	0.002	0	0	0	3
PD.7330	PL.49141	A	40QA	7.41Y	123.6	0.00	1.44	2.21	6	16	4	97	0.00	0.0	6.859	0.002	0	0	0	3
PL.49142	PD.7330	A	#2 ACSR	7.41Y	123.6	0.00	1.44	2.21	1	16	4	97	0.00	0.0	6.895	0.035	16	4	2	3
PL.49138	PL.49142	A	#2 ACSR	7.41Y	123.6	0.00	1.44	0.00	0	0	0	100	0.00	0.0	7.006	0.111	0	0	1	1
PL.49140	PL.49139	ABC	#1/0 ACSR	7.41Y	123.5	0.03	1.47	19.36	8	420	95	98	0.09	0.0	6.942	0.085	0	0	0	67
PL.49143	PL.49140	A	6 A (CWC)	7.41Y	123.5	0.00	1.47	1.75	1	13	3	97	0.00	0.0	6.944	0.002	0	0	0	2
PD.7331	PL.49143	A	40QA	7.41Y	123.5	0.00	1.47	1.75	4	13	3	97	0.00	0.0	6.944	0.002	0	0	0	2
PL.48909	PD.7331	A	6 A (CWC)	7.41Y	123.5	0.01	1.48	1.75	1	13	3	97	0.00	0.0	7.101	0.157	0	0	1	2
PL.48910	PL.48909	A	6 A (CWC)	7.41Y	123.5	0.00	1.48	1.73	1	13	3	97	0.00	0.0	7.150	0.048	0	0	0	1
PL.49144	PL.48910	A	6 A (CWC)	7.41Y	123.5	0.00	1.49	1.73	1	13	3	97	0.00	0.0	7.235	0.085	13	3	1	1
PL.48911	PL.49140	ABC	#1/0 ACSR	7.41Y	123.5	0.06	1.53	18.56	8	403	91	98	0.17	0.0	7.125	0.182	2	0	1	64
PL.48535	PL.48911	ABC	#1/0 ACSR	7.41Y	123.4	0.04	1.56	18.48	8	401	90	98	0.11	0.0	7.245	0.120	2	0	1	63
PL.48536	PL.48535	ABC	#1/0 ACSR	7.41Y	123.4	0.01	1.57	18.39	8	399	90	98	0.03	0.0	7.277	0.032	8	2	1	62
PL.48537	PL.48536	ABC	#1/0 ACSR	7.40Y	123.4	0.06	1.63	18.03	8	391	88	98	0.15	0.0	7.451	0.174	0	0	0	61
PL.48538	PL.48537	ABC	#1/0 ACSR	7.40Y	123.3	0.04	1.67	16.93	7	367	83	98	0.11	0.0	7.595	0.144	0	0	1	58
PL.48428	PL.48538	ABC	#1/0 ACSR	7.40Y	123.3	0.06	1.73	16.91	7	366	83	98	0.16	0.0	7.803	0.208	0	0	0	57
PL.48434	PL.48428	A	#2 ACSR	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	7.808	0.005	0	0	0	0
PD.7512	PL.48434	A	75QA	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	7.808	0.005	0	0	0	0
PL.47995	PL.48428	ABC	#1/0 ACSR	7.39Y	123.2	0.04	1.77	16.45	7	356	80	98	0.10	0.0	7.939	0.136	0	0	0	56
PL.47996	PL.47995	C	#2 ACSR	7.39Y	123.2	0.00	1.77	0.36	0	3	1	95	0.00	0.0	7.945	0.005	0	0	0	1
PD.7333	PL.47996	C	25QA	7.39Y	123.2	0.00	1.77	0.36	1	3	1	95	0.00	0.0	7.945	0.005	0	0	0	1
PL.47997	PD.7333	C	#2 ACSR	7.39Y	123.2	0.00	1.77	0.36	0	3	1	95	0.00	0.0	8.037	0.092	3	1	1	1
PL.47998	PL.47995	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.79	16.33	7	353	80	98	0.05	0.0	8.009	0.069	0	0	0	55
PL.47999	PL.47998	ABC	#1/0 ACSR	7.39Y	123.2	0.00	1.79	16.33	7	353	79	98	0.00	0.0	8.012	0.003	0	0	0	55
PL.48000	PL.47999	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.81	15.82	7	342	77	98	0.04	0.0	8.068	0.057	0	0	0	54
PL.47299	PL.48000	C	#2 ACSR	7.39Y	123.2	0.00	1.81	0.00	0	0	0	100	0.00	0.0	8.097	0.029	0	0	0	0
PL.48003	PL.48000	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.83	15.82	7	342	77	98	0.05	0.0	8.136	0.068	0	0	0	54
PL.48004	PL.48003	B	#1/0 ACSR	7.39Y	123.2	0.00	1.83	1.39	1	10	2	98	0.00	0.0	8.140	0.003	0	0	0	1
PD.7513	PL.48004	B	40QA	7.39Y	123.2	0.00	1.83	1.39	3	10	2	98	0.00	0.0	8.140	0.003	0	0	0	1

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Balanced Voltage Drop Report
Source: Brodhead

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.48005	PD.7513	B	#1/0 ACSR	7.39Y	123.2	0.00	1.83	1.39	1	10	2	98	0.00	0.0	8.233	0.093	10	2	1	1
PL.48006	PL.48003	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.84	15.36	7	332	75	98	0.04	0.0	8.194	0.058	0	0	0	53
PL.48528	PL.48006	ABC	#1/0 ACSR	7.39Y	123.1	0.04	1.88	15.36	7	332	75	98	0.08	0.0	8.328	0.134	2	0	1	53
PL.48539	PL.48528	ABC	#1/0 ACSR	7.38Y	123.1	0.04	1.92	14.09	6	305	69	98	0.08	0.0	8.484	0.156	0	0	0	48
PL.48397	PL.48539	ABC	#1/0 ACSR	7.38Y	123.1	0.03	1.95	13.93	6	301	68	98	0.06	0.0	8.600	0.117	0	0	0	47
PL.48398	PL.48397	ABC	#1/0 ACSR	7.38Y	123.0	0.02	1.97	13.93	6	301	68	98	0.05	0.0	8.688	0.087	0	0	1	47
PL.47517	PL.48398	ABC	#1/0 ACSR	7.38Y	123.0	0.02	1.99	9.23	4	199	45	98	0.02	0.0	8.790	0.102	6	1	1	26
PL.48402	PL.47517	C	6 A (CWC)	7.38Y	123.0	0.01	1.99	26.84	19	193	44	97	0.01	0.0	8.796	0.005	0	0	0	25
PD.7339	PL.48402	C	25T	7.38Y	123.0	0.00	1.99	26.84	0	193	44	97	0.00	0.0	8.796	0.005	0	0	0	25
PL.47901	PD.7339	C	6 A (CWC)	7.38Y	122.9	0.08	2.07	26.84	19	193	44	97	0.12	0.1	8.862	0.066	0	0	0	25
PL.64065	PL.47901	C	6 A (CWC)	7.37Y	122.8	0.10	2.18	26.84	19	193	43	98	0.15	0.1	8.949	0.087	0	0	0	25
PL.64066	PL.64065	C	6 A (CWC)	7.37Y	122.8	0.00	2.18	26.84	19	193	43	98	0.00	0.0	8.949	0.000	0	0	1	25
PL.64067	PL.64066	C	6 A (CWC)	7.35Y	122.5	0.32	2.49	26.78	19	193	43	98	0.46	0.2	9.211	0.262	0	0	0	24
PL.47961	PL.64067	C	6 A (CWC)	7.34Y	122.3	0.26	2.75	26.78	19	192	43	98	0.36	0.2	9.428	0.218	10	2	2	24
PL.47962	PL.47961	C	6 A (CWC)	7.33Y	122.1	0.16	2.90	23.40	17	168	37	98	0.20	0.1	9.576	0.148	0	0	0	21
PL.47553	PL.47962	C	6 A (CWC)	7.33Y	122.1	0.00	2.90	0.00	0	0	0	100	0.00	0.0	9.644	0.068	0	0	0	0
PL.47963	PL.47962	C	6 A (CWC)	7.32Y	122.0	0.08	2.98	23.40	17	167	37	98	0.10	0.1	9.652	0.075	0	0	0	21
PL.48517	PL.47963	C	6 A (CWC)	7.32Y	121.9	0.08	3.06	18.26	13	131	29	98	0.08	0.1	9.750	0.099	1	0	1	15
PL.48518	PL.48517	C	6 A (CWC)	7.32Y	121.9	0.02	3.08	16.21	12	116	26	98	0.02	0.0	9.774	0.024	0	0	0	13
PL.48519	PL.48518	C	6 A (CWC)	7.31Y	121.9	0.04	3.12	14.79	11	106	23	98	0.03	0.0	9.838	0.064	11	2	1	12
PL.48520	PL.48519	C	6 A (CWC)	7.31Y	121.8	0.05	3.17	13.28	9	95	21	98	0.04	0.0	9.922	0.085	0	0	0	11
PL.48521	PL.48520	C	6 A (CWC)	7.31Y	121.8	0.01	3.19	12.09	9	86	19	98	0.01	0.0	9.950	0.028	6	1	1	10
PL.47388	PL.48521	C	#4 ACSR	7.31Y	121.8	0.00	3.19	0.00	0	0	0	100	0.00	0.0	10.009	0.059	0	0	1	1
PL.48021	PL.48521	C	6 A (CWC)	7.31Y	121.8	0.06	3.25	11.31	8	81	18	98	0.04	0.0	10.077	0.127	11	2	1	8
PL.48022	PL.48021	C	6 A (CWC)	7.30Y	121.7	0.05	3.29	9.74	7	69	15	98	0.02	0.0	10.191	0.114	7	2	1	7
PL.48023	PL.48022	C	6 A (CWC)	7.30Y	121.7	0.01	3.30	8.74	6	62	14	98	0.00	0.0	10.221	0.031	36	8	2	6
PL.49389	PL.48023	C	6 A (CWC)	7.30Y	121.7	0.01	3.31	3.75	3	27	6	98	0.00	0.0	10.266	0.045	15	3	3	4
PL.49390	PL.49389	C	6 A (CWC)	7.30Y	121.7	0.00	3.31	1.61	1	11	3	96	0.00	0.0	10.320	0.053	11	3	1	1
PL.48019	PL.48520	C	#1/0 ACSR	7.31Y	121.8	0.00	3.17	1.19	1	8	2	97	0.00	0.0	9.929	0.007	0	0	0	1
PD.7171	PL.48019	C	40QA	7.31Y	121.8	0.00	3.17	1.19	3	8	2	97	0.00	0.0	9.929	0.007	0	0	0	1
PL.48020	PD.7171	C	#1/0 ACSR	7.31Y	121.8	0.00	3.17	1.19	1	8	2	97	0.00	0.0	9.970	0.041	8	2	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: Brodhead

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.48251	PL.48518	C	6 A (CWC)	7.31Y	121.9	0.00	3.08	1.43	1	10	2	98	0.00	0.0	9.823	0.049	0	0	0	1
PL.48252	PL.48251	C	6 A (CWC)	7.31Y	121.9	0.00	3.09	1.43	1	10	2	98	0.00	0.0	9.863	0.040	10	2	1	1
PL.47211	PL.48517	C	#4 ACSR	7.32Y	121.9	0.00	3.07	1.85	1	13	3	97	0.00	0.0	9.815	0.064	13	3	1	1
PL.45997	PL.47963	C	6 A (CWC)	7.32Y	122.0	0.00	2.98	0.00	0	0	0	100	0.00	0.0	9.714	0.062	0	0	0	0
PL.47964	PL.47963	C	6 A (CWC)	7.32Y	122.0	0.01	3.00	5.14	4	37	8	98	0.00	0.0	9.709	0.057	2	1	1	6
PL.47440	PL.47964	C	6 A (CWC)	7.32Y	122.0	0.00	3.00	0.56	0	4	1	97	0.00	0.0	9.742	0.033	4	1	1	1
PL.47965	PL.47964	C	6 A (CWC)	7.32Y	122.0	0.01	3.00	4.25	3	30	7	97	0.00	0.0	9.741	0.033	3	1	2	4
PL.63715	PL.47965	C	#1/0 ACSR	7.32Y	122.0	0.00	3.00	3.80	2	27	6	98	0.00	0.0	9.741	0.000	16	4	1	2
PL.63716	PL.63715	C	#1/0 ACSR	7.32Y	122.0	0.00	3.00	1.56	1	11	2	98	0.00	0.0	9.798	0.057	11	2	1	1
PL.47526	PL.47961	C	6 A (CWC)	7.33Y	122.2	0.00	2.75	2.06	1	15	3	98	0.00	0.0	9.490	0.061	15	3	1	1
PL.48400	PL.48398	A	6 A (CWC)	7.38Y	123.0	0.00	1.97	14.10	10	102	23	98	0.00	0.0	8.694	0.006	0	0	0	20
PD.7338	PL.48400	A	75QA	7.38Y	123.0	0.00	1.97	14.10	19	102	23	98	0.00	0.0	8.694	0.006	0	0	0	20
PL.48401	PD.7338	A	6 A (CWC)	7.38Y	123.0	0.06	2.03	14.10	10	102	23	98	0.04	0.0	8.782	0.089	0	0	1	20
PL.48399	PL.48401	A	6 A (CWC)	7.37Y	122.9	0.11	2.13	14.10	10	102	23	98	0.08	0.1	8.949	0.167	0	0	0	19
PL.48403	PL.48399	A	#2 ACSR	7.37Y	122.9	0.01	2.14	3.36	2	24	5	98	0.00	0.0	9.013	0.064	0	0	0	3
PL.46805	PL.48403	A	6 A (CWC)	7.37Y	122.9	0.00	2.14	0.82	1	6	1	99	0.00	0.0	9.149	0.136	6	1	1	1
PL.48404	PL.48403	A	#2 ACSR	7.37Y	122.9	0.00	2.15	2.55	1	18	4	98	0.00	0.0	9.106	0.093	12	3	1	2
PL.48007	PL.48404	A	#2 ACSR	7.37Y	122.9	0.00	2.15	0.83	0	6	1	99	0.00	0.0	9.180	0.075	6	1	1	1
PL.48008	PL.48399	A	6 A (CWC)	7.37Y	122.8	0.04	2.17	10.73	8	77	17	98	0.02	0.0	9.022	0.073	0	0	0	16
PL.48009	PL.48008	A	6 A (CWC)	7.36Y	122.7	0.08	2.25	9.67	7	70	15	98	0.04	0.1	9.211	0.190	0	0	0	15
PL.48012	PL.48009	A	6 A (CWC)	7.36Y	122.7	0.03	2.28	6.67	5	48	11	97	0.01	0.0	9.296	0.085	0	0	0	11
PL.48013	PL.48012	A	6 A (CWC)	7.36Y	122.7	0.00	2.28	6.67	5	48	11	97	0.00	0.0	9.304	0.008	0	0	0	11
PL.48014	PL.48013	A	6 A (CWC)	7.36Y	122.7	0.01	2.29	6.67	5	48	11	97	0.00	0.0	9.356	0.052	7	2	1	11
PL.48015	PL.48014	A	6 A (CWC)	7.36Y	122.7	0.01	2.31	5.69	4	41	9	98	0.00	0.0	9.407	0.051	8	2	1	10
PL.48016	PL.48015	A	6 A (CWC)	7.36Y	122.7	0.02	2.33	4.57	3	33	7	98	0.01	0.0	9.533	0.126	9	2	1	9
PL.48017	PL.48016	A	6 A (CWC)	7.36Y	122.7	0.00	2.33	0.31	0	2	0	100	0.00	0.0	9.573	0.040	2	0	1	1
PL.48018	PL.48017	A	6 A (CWC)	7.36Y	122.7	0.00	2.33	0.00	0	0	0	100	0.00	0.0	9.885	0.312	0	0	0	0
PL.47899	PL.48016	A	6 A (CWC)	7.36Y	122.7	0.01	2.34	3.03	2	22	5	98	0.00	0.0	9.612	0.080	0	0	0	7
PL.47900	PL.47899	A	6 A (CWC)	7.36Y	122.7	0.00	2.34	1.32	1	9	2	98	0.00	0.0	9.719	0.107	5	1	1	2
PL.49391	PL.47900	A	6 A (CWC)	7.36Y	122.7	0.00	2.35	0.59	0	4	1	97	0.00	0.0	10.021	0.303	4	1	1	1
PL.49150	PL.49391	A	6 A (CWC)	7.36Y	122.7	0.00	2.35	0.00	0	0	0	100	0.00	0.0	10.139	0.117	0	0	0	0

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Balanced Voltage Drop Report
Source: Brodhead

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.45989	PL.47899	A	6 A (CWC)	7.36Y	122.7	0.00	2.34	1.71	1	12	3	97	0.00	0.0	9.679	0.066	1	0	1	5
PL.57701	PL.45989	A	6 A (CWC)	7.36Y	122.7	0.00	2.35	1.63	1	12	3	97	0.00	0.0	9.707	0.028	12	3	4	4
PL.47301	PL.48015	A	6 A (CWC)	7.36Y	122.7	0.00	2.31	0.00	0	0	0	100	0.00	0.0	9.476	0.069	0	0	0	0
PL.46808	PL.48013	A	#1/0 ACSR	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	9.332	0.028	0	0	0	0
PL.48010	PL.48009	A	6 A (CWC)	7.36Y	122.7	0.00	2.25	1.71	1	12	3	97	0.00	0.0	9.250	0.039	4	1	1	3
PL.48011	PL.48010	A	6 A (CWC)	7.36Y	122.7	0.00	2.26	1.20	1	9	2	98	0.00	0.0	9.309	0.058	9	2	2	2
PL.64846	PL.48009	A	#1/0 ACSR	7.36Y	122.7	0.00	2.25	1.30	1	9	2	98	0.00	0.0	9.274	0.063	9	2	1	1
PL.47756	PL.48008	A	6 A (CWC)	7.37Y	122.8	0.00	2.17	1.06	1	8	2	97	0.00	0.0	9.057	0.035	8	2	1	1
PL.49009	PL.48539	A	#2 ACSR	7.38Y	123.1	0.00	1.92	0.48	0	3	1	95	0.00	0.0	8.488	0.004	0	0	0	1
PD.7337	PL.49009	A	25QA	7.38Y	123.1	0.00	1.92	0.48	2	3	1	95	0.00	0.0	8.488	0.004	0	0	0	1
PL.48396	PD.7337	A	#2 ACSR	7.38Y	123.1	0.00	1.92	0.48	0	3	1	95	0.00	0.0	8.516	0.028	3	1	1	1
PL.48531	PL.48528	C	6 A (CWC)	7.39Y	123.1	0.00	1.88	3.56	3	26	6	97	0.00	0.0	8.331	0.003	0	0	0	4
PD.7336	PL.48531	C	60QA	7.39Y	123.1	0.00	1.88	3.56	6	26	6	97	0.00	0.0	8.331	0.003	0	0	0	4
PL.48532	PD.7336	C	6 A (CWC)	7.38Y	123.1	0.07	1.95	3.56	3	26	6	97	0.01	0.0	8.764	0.432	1	0	1	4
PL.46431	PL.48532	C	6 A (CWC)	7.38Y	123.0	0.00	1.95	3.09	2	22	5	98	0.00	0.0	8.826	0.062	22	5	2	2
PL.48533	PL.48532	C	6 A (CWC)	7.38Y	123.0	0.00	1.95	0.29	0	2	0	100	0.00	0.0	8.956	0.192	0	0	0	1
PL.47664	PL.48533	C	6 A (CWC)	7.38Y	123.0	0.00	1.95	0.00	0	0	0	100	0.00	0.0	9.206	0.250	0	0	0	0
PL.48534	PL.48533	C	6 A (CWC)	7.38Y	123.0	0.00	1.95	0.29	0	2	0	100	0.00	0.0	9.054	0.098	2	0	1	1
PL.48529	PL.48006	C	#2 ACSR	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	8.198	0.004	0	0	0	0
PD.7335	PL.48529	C	25QA	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	8.198	0.004	0	0	0	0
PL.48530	PD.7335	C	#2 ACSR	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	8.228	0.030	0	0	0	0
PL.48001	PL.47999	A	#2 ACSR	7.39Y	123.2	0.00	1.79	1.52	1	11	2	98	0.00	0.0	8.017	0.005	0	0	0	1
PD.7334	PL.48001	A	25QA	7.39Y	123.2	0.00	1.79	1.52	6	11	2	98	0.00	0.0	8.017	0.005	0	0	0	1
PL.48002	PD.7334	A	#2 ACSR	7.39Y	123.2	0.00	1.79	1.52	1	11	2	98	0.00	0.0	8.035	0.018	11	2	1	1
PL.48432	PL.48428	C	#2 ACSR	7.40Y	123.3	0.00	1.73	1.38	1	10	2	98	0.00	0.0	7.808	0.005	0	0	0	1
PD.7332	PL.48432	C	25QA	7.40Y	123.3	0.00	1.73	1.38	6	10	2	98	0.00	0.0	7.808	0.005	0	0	0	1
PL.48433	PD.7332	C	#2 ACSR	7.40Y	123.3	0.00	1.74	1.38	1	10	2	98	0.00	0.0	7.929	0.121	10	2	1	1
PL.58960	PL.48537	C	#2 ACSR	7.40Y	123.4	0.00	1.63	1.63	1	12	3	97	0.00	0.0	7.455	0.004	0	0	0	1
PD.8665	PL.58960	C	25QA	7.40Y	123.4	0.00	1.63	1.63	7	12	3	97	0.00	0.0	7.455	0.004	0	0	0	1
PL.58961	PD.8665	C	#2 ACSR	7.40Y	123.4	0.00	1.63	1.63	1	12	3	97	0.00	0.0	7.478	0.024	12	3	1	1
PL.60026	PL.48537	A	#1/0 ACSR	7.40Y	123.4	0.00	1.63	1.67	1	12	3	97	0.00	0.0	7.454	0.003	0	0	0	2

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Balanced Voltage Drop Report
Source: Brodhead

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.8910	PL.60026	A	15T	7.40Y	123.4	0.00	1.63	1.67	0	12	3	97	0.00	0.0	7.454	0.003	0	0	0	2
PL.60027	PD.8910	A	#1/0 ACSR	7.40Y	123.4	0.00	1.63	1.67	1	12	3	97	0.00	0.0	7.489	0.035	12	3	2	2
PL.58422	PL.49140	A	6 A (CWC)	7.41Y	123.5	0.00	1.47	0.62	0	4	1	97	0.00	0.0	6.945	0.002	0	0	0	1
PD.8586	PL.58422	A	20T	7.41Y	123.5	0.00	1.47	0.62	0	4	1	97	0.00	0.0	6.945	0.002	0	0	0	1
PL.58423	PD.8586	A	6 A (CWC)	7.41Y	123.5	0.00	1.47	0.62	0	4	1	97	0.00	0.0	7.101	0.156	0	0	0	1
PL.58421	PL.58423	A	6 A (CWC)	7.41Y	123.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	7.621	0.520	0	0	0	0
PD.9153-B	PL.58421	A	Open	7.41Y	123.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	7.621	0.520	0	0	0	0
PL.58420	PL.58423	A	6 A (CWC)	7.41Y	123.5	0.00	1.47	0.62	0	4	1	97	0.00	0.0	7.140	0.039	4	1	1	1
PL.49266	PL.49265	C	#2 ACSR	7.42Y	123.6	0.00	1.36	1.64	1	12	3	97	0.00	0.0	6.636	0.001	0	0	0	1
PD.7329	PL.49266	C	25QA	7.42Y	123.6	0.00	1.36	1.64	7	12	3	97	0.00	0.0	6.636	0.001	0	0	0	1
PL.49267	PD.7329	C	#2 ACSR	7.42Y	123.6	0.00	1.36	1.64	1	12	3	97	0.00	0.0	6.686	0.049	12	3	1	1
PL.49268	PL.49265	A	#2 ACSR	7.42Y	123.6	0.03	1.38	14.18	8	103	23	98	0.02	0.0	6.695	0.059	5	1	1	24
PL.49134	PL.49268	A	#2 ACSR	7.41Y	123.5	0.08	1.47	13.52	8	98	22	98	0.06	0.1	6.895	0.201	0	0	0	23
PL.46627	PL.49134	A	#2 ACSR	7.41Y	123.5	0.00	1.47	0.65	0	5	1	98	0.00	0.0	6.977	0.082	5	1	1	1
PL.49136	PL.49134	A	#2 ACSR	7.41Y	123.5	0.08	1.55	12.87	7	93	21	98	0.05	0.1	7.098	0.203	3	1	1	22
PL.49135	PL.49136	A	#2 ACSR	7.40Y	123.4	0.07	1.61	12.47	7	90	20	98	0.04	0.0	7.270	0.173	0	0	0	21
PL.48425	PL.49135	A	#2 ACSR	7.40Y	123.4	0.01	1.63	5.44	3	39	9	97	0.00	0.0	7.359	0.088	2	0	1	8
PL.48426	PL.48425	A	#2 ACSR	7.40Y	123.4	0.01	1.64	5.18	3	37	8	98	0.00	0.0	7.442	0.083	0	0	0	7
PL.47406	PL.48426	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	1.42	1	10	2	98	0.00	0.0	7.487	0.046	10	2	2	2
PL.48427	PL.48426	A	#2 ACSR	7.40Y	123.3	0.02	1.66	3.76	2	27	6	98	0.00	0.0	7.610	0.168	9	2	1	5
PL.47753	PL.48427	A	6 A (CWC)	7.40Y	123.3	0.00	1.66	0.18	0	1	0	100	0.00	0.0	7.677	0.067	1	0	1	1
PL.48429	PL.48427	A	#2 ACSR	7.40Y	123.3	0.01	1.66	2.40	1	17	4	97	0.00	0.0	7.719	0.109	0	0	0	3
PL.47161	PL.48429	A	#1/0 ACSR	7.40Y	123.3	0.00	1.66	1.84	1	13	3	97	0.00	0.0	7.735	0.016	13	3	1	1
PL.48430	PL.48429	A	#2 ACSR	7.40Y	123.3	0.00	1.66	0.56	0	4	1	97	0.00	0.0	7.772	0.054	2	1	1	2
PL.48431	PL.48430	A	#2 ACSR	7.40Y	123.3	0.00	1.66	0.23	0	2	0	100	0.00	0.0	7.828	0.056	2	0	1	1
PL.48435	PL.48431	A	#2 ACSR	7.40Y	123.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	7.856	0.027	0	0	0	0
PL.49067	PL.49135	A	6 A (CWC)	7.40Y	123.4	0.02	1.63	6.28	4	45	10	98	0.01	0.0	7.340	0.070	10	2	1	12
PL.49068	PL.49067	A	6 A (CWC)	7.40Y	123.3	0.03	1.66	4.90	3	35	8	97	0.01	0.0	7.468	0.128	4	1	1	11
PL.48463	PL.49068	A	6 A (CWC)	7.40Y	123.3	0.01	1.67	4.23	3	31	7	98	0.00	0.0	7.548	0.080	15	3	3	9
PL.48462	PL.48463	A	6 A (CWC)	7.40Y	123.3	0.01	1.68	2.13	2	15	3	98	0.00	0.0	7.647	0.099	0	0	0	6
PL.48460	PL.48462	A	6 A (CWC)	7.40Y	123.3	0.00	1.68	1.14	1	8	2	97	0.00	0.0	7.668	0.021	5	1	2	5

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Balanced Voltage Drop Report
Source: Brodhead

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.48461	PL.48460	A	6 A (CWC)	7.40Y	123.3	0.00	1.68	0.42	0	3	1	95	0.00	0.0	7.731	0.063	3	1	3	3
PL.47449	PL.48462	A	6 A (CWC)	7.40Y	123.3	0.00	1.68	0.99	1	7	2	96	0.00	0.0	7.773	0.126	7	2	1	1
PL.47364	PL.49068	A	#1/0 ACSR	7.40Y	123.3	0.00	1.66	0.16	0	1	0	100	0.00	0.0	7.532	0.064	1	0	1	1
PL.47646	PL.49135	A	#2 ACSR	7.40Y	123.4	0.00	1.61	0.75	0	5	1	98	0.00	0.0	7.336	0.066	5	1	1	1
PL.60058	PL.48287	AB	#1/0 ACSR	7.42Y	123.7	0.03	1.27	17.43	8	253	57	98	0.05	0.0	6.472	0.088	0	0	0	47
PD.8855	PL.60058	AB	50L	7.42Y	123.7	0.00	1.27	17.43	35	253	57	98	0.00	0.0	6.472	0.088	0	0	0	47
PL.60604	PD.8855	AB	#1/0 ACSR	7.42Y	123.7	0.00	1.28	17.43	8	253	57	98	0.00	0.0	6.478	0.006	0	0	0	47
PL.60603	PL.60604	A	6 A (CWC)	7.42Y	123.7	0.00	1.28	0.00	0	0	0	100	0.00	0.0	6.547	0.069	0	0	1	1
PL.60602	PL.60604	B	6 A (CWC)	7.42Y	123.7	0.00	1.28	0.00	0	0	0	100	0.00	0.0	6.573	0.095	0	0	0	0
PL.61075	PL.60604	AB	#1/0 ACSR	7.42Y	123.7	0.05	1.32	17.43	8	253	57	98	0.08	0.0	6.617	0.139	0	0	0	46
PL.61076	PL.61075	AB	#1/0 ACSR	7.42Y	123.7	0.02	1.35	16.02	7	232	52	98	0.04	0.0	6.688	0.071	0	0	0	41
PL.60605	PL.61076	AB	#1/0 ACSR	7.42Y	123.6	0.01	1.36	16.02	7	232	52	98	0.02	0.0	6.721	0.033	5	1	1	41
PL.60062	PL.60605	AB	#1/0 ACSR	7.42Y	123.6	0.01	1.37	15.68	7	227	51	98	0.01	0.0	6.748	0.027	6	1	1	40
PL.60063	PL.60062	AB	#1/0 ACSR	7.42Y	123.6	0.02	1.39	15.30	7	221	50	98	0.03	0.0	6.813	0.065	0	0	0	39
PL.60065	PL.60063	A	#1/0 ACSR	7.42Y	123.6	0.00	1.39	1.84	1	13	3	97	0.00	0.0	6.824	0.011	5	1	1	2
PL.60140	PL.60065	A	#1/0 ACSR	7.42Y	123.6	0.00	1.39	1.13	0	8	2	97	0.00	0.0	6.828	0.004	0	0	0	1
PD.8919	PL.60140	A	15T	7.42Y	123.6	0.00	1.39	1.13	0	8	2	97	0.00	0.0	6.828	0.004	0	0	0	1
PL.60141	PD.8919	A	#1/0 ACSR	7.42Y	123.6	0.00	1.39	1.13	0	8	2	97	0.00	0.0	6.954	0.127	8	2	1	1
PL.60064	PL.60063	AB	#1/0 ACSR	7.42Y	123.6	0.02	1.40	14.38	6	208	47	98	0.02	0.0	6.867	0.054	0	0	0	37
PL.60066	PL.60064	AB	#1/0 ACSR	7.42Y	123.6	0.01	1.41	14.38	6	208	47	98	0.02	0.0	6.913	0.046	0	0	0	37
PL.60069	PL.60066	A	#1/0 ACSR	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	6.916	0.003	0	0	0	0
PD.8859	PL.60069	A	15T	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	6.916	0.003	0	0	0	0
PL.60070	PD.8859	A	#1/0 ACSR	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	6.937	0.021	0	0	0	0
PL.60067	PL.60066	A	#1/0 ACSR	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	6.916	0.003	0	0	0	0
PD.8858	PL.60067	A	15T	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	6.916	0.003	0	0	0	0
PL.60068	PD.8858	A	#1/0 ACSR	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	6.942	0.025	0	0	0	0
PL.60198	PL.60066	AB	#1/0 ACSR	7.41Y	123.6	0.01	1.43	14.38	6	208	47	98	0.02	0.0	6.962	0.049	0	0	1	37
PL.60199	PL.60198	AB	#1/0 ACSR	7.41Y	123.6	0.01	1.44	14.38	6	208	47	98	0.02	0.0	7.006	0.044	6	1	1	36
PL.60200	PL.60199	A	#1/0 ACSR	7.41Y	123.6	0.00	1.44	0.00	0	0	0	100	0.00	0.0	7.010	0.003	0	0	0	0
PD.8934	PL.60200	A	15T	7.41Y	123.6	0.00	1.44	0.00	0	0	0	100	0.00	0.0	7.010	0.003	0	0	0	0
PL.60201	PD.8934	A	#1/0 ACSR	7.41Y	123.6	0.00	1.44	0.00	0	0	0	100	0.00	0.0	7.023	0.013	0	0	0	0

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Balanced Voltage Drop Report
Source: Brodhead

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.60202	PL.60201	A	#1/0 ACSR	7.41Y	123.6	0.00	1.44	0.00	0	0	0	100	0.00	0.0	7.070	0.046	0	0	0	0
PL.60203	PL.60199	AB	#1/0 ACSR	7.41Y	123.5	0.02	1.46	13.93	6	202	45	98	0.02	0.0	7.068	0.061	7	1	1	35
PL.60204	PL.60203	B	#1/0 ACSR	7.41Y	123.5	0.00	1.46	26.95	12	195	44	98	0.00	0.0	7.071	0.003	0	0	0	34
PD.8935-A	PL.60204	B	Closed	7.41Y	123.5	0.00	1.46	26.95	0	195	44	98	0.00	0.0	7.071	0.003	0	0	0	34
PD.8935-B	PD.8935-A	B	Closed	7.41Y	123.5	0.00	1.46	26.95	0	195	44	98	0.00	0.0	7.071	0.003	0	0	0	34
PL.60206	PD.8935-B	B	#1/0 ACSR	7.41Y	123.5	0.05	1.51	26.95	12	195	44	98	0.06	0.0	7.152	0.080	0	0	0	34
PL.60207	PL.60206	B	#1/0 ACSR	7.41Y	123.5	0.00	1.51	3.92	2	28	6	98	0.00	0.0	7.184	0.033	11	2	1	3
PL.47752	PL.60207	B	#1/0 ACSR	7.41Y	123.5	0.00	1.51	2.37	1	17	4	97	0.00	0.0	7.241	0.056	17	4	1	2
PL.60029	PL.47752	B	6 A (CWC)	7.41Y	123.5	0.00	1.51	0.00	0	0	0	100	0.00	0.0	7.303	0.062	0	0	1	1
PL.60208	PL.60206	B	#1/0 ACSR	7.41Y	123.5	0.00	1.51	23.02	10	166	37	98	0.00	0.0	7.155	0.003	0	0	0	31
PD.8936	PL.60208	B	15T	7.41Y	123.5	0.00	1.51	23.02	0	166	37	98	0.00	0.0	7.155	0.003	0	0	0	31
PL.60205	PD.8936	B	#1/0 ACSR	7.41Y	123.5	0.02	1.53	23.02	10	166	37	98	0.02	0.0	7.187	0.032	0	0	0	31
PL.60209	PL.60205	B	#1/0 ACSR	7.41Y	123.4	0.03	1.55	23.02	10	166	37	98	0.03	0.0	7.236	0.049	0	0	0	31
PL.60210	PL.60209	B	#1/0 ACSR	7.41Y	123.4	0.02	1.57	23.02	10	166	37	98	0.02	0.0	7.277	0.042	3	1	1	31
PL.60211	PL.60210	B	#1/0 ACSR	7.41Y	123.4	0.00	1.57	22.61	10	163	36	98	0.00	0.0	7.281	0.003	0	0	0	30
PD.8937	PL.60211	B	15T	7.41Y	123.4	0.00	1.57	22.61	0	163	36	98	0.00	0.0	7.281	0.003	0	0	0	30
PL.60212	PD.8937	B	#1/0 ACSR	7.40Y	123.4	0.07	1.65	22.61	10	163	36	98	0.08	0.0	7.426	0.145	0	0	0	30
PL.60072	PL.60212	B	#1/0 ACSR	7.40Y	123.3	0.02	1.67	22.61	10	163	36	98	0.02	0.0	7.473	0.047	10	2	2	30
PL.60075	PL.60072	B	#4/0 ACSR	7.40Y	123.3	0.00	1.67	0.19	0	1	0	100	0.00	0.0	7.481	0.008	0	0	0	1
PL.60076	PL.60075	B	#4/0 ACSR	7.40Y	123.3	0.00	1.67	0.19	0	1	0	100	0.00	0.0	7.517	0.035	1	0	1	1
PL.60071	PL.60072	B	#1/0 ACSR	7.40Y	123.3	0.00	1.67	1.66	1	12	3	97	0.00	0.0	7.508	0.035	12	3	1	1
PL.60073	PL.60072	B	#1/0 ACSR	7.40Y	123.3	0.00	1.67	19.34	8	140	31	98	0.00	0.0	7.477	0.003	0	0	0	26
PD.8938	PL.60073	B	15T	7.40Y	123.3	0.00	1.67	19.34	0	140	31	98	0.00	0.0	7.477	0.003	0	0	0	26
PL.60074	PD.8938	B	#1/0 ACSR	7.40Y	123.3	0.04	1.71	19.34	8	140	31	98	0.03	0.0	7.568	0.092	12	3	2	26
PL.47892	PL.60074	B	6 A (CWC)	7.40Y	123.3	0.04	1.75	17.73	13	128	28	98	0.04	0.0	7.616	0.048	0	0	0	24
PL.60077	PL.47892	B	#1/0 ACSR	7.39Y	123.2	0.04	1.79	17.73	8	128	28	98	0.03	0.0	7.712	0.096	0	0	0	24
PL.60082	PL.60077	B	#1/0 ACSR	7.39Y	123.2	0.00	1.79	4.99	2	36	8	98	0.00	0.0	7.726	0.014	0	0	0	8
PL.62515	PL.60082	B	6 A (CWC)	7.39Y	123.2	0.00	1.79	4.99	4	36	8	98	0.00	0.0	7.730	0.003	0	0	0	8
PD.9373	PL.62515	B	25T	7.39Y	123.2	0.00	1.79	4.99	0	36	8	98	0.00	0.0	7.730	0.003	0	0	0	8
PL.62516	PD.9373	B	6 A (CWC)	7.39Y	123.2	0.02	1.81	4.99	4	36	8	98	0.01	0.0	7.826	0.096	5	1	1	8
PL.49331	PL.62516	B	6 A (CWC)	7.39Y	123.2	0.01	1.82	4.26	3	31	7	98	0.00	0.0	7.859	0.033	0	0	0	7

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: Brodhead

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.47665	PL.49331	B	6 A (CWC)	7.39Y	123.2	0.00	1.82	0.32	0	2	1	89	0.00	0.0	7.904	0.045	2	1	1	1
PL.49332	PL.49331	B	6 A (CWC)	7.39Y	123.2	0.03	1.84	3.95	3	28	6	98	0.01	0.0	8.016	0.157	2	0	1	6
PL.49333	PL.49332	B	6 A (CWC)	7.39Y	123.1	0.02	1.86	3.70	3	27	6	98	0.00	0.0	8.114	0.098	0	0	0	5
PL.47666	PL.49333	B	#1/0 ACSR	7.39Y	123.1	0.00	1.86	1.48	1	11	2	98	0.00	0.0	8.326	0.213	11	2	1	1
PL.49334	PL.49333	B	6 A (CWC)	7.39Y	123.1	0.01	1.87	2.22	2	16	4	97	0.00	0.0	8.225	0.111	0	0	0	4
PL.49335	PL.49334	B	6 A (CWC)	7.39Y	123.1	0.01	1.88	2.22	2	16	4	97	0.00	0.0	8.332	0.107	7	2	1	4
PL.49336	PL.49335	B	6 A (CWC)	7.39Y	123.1	0.01	1.89	1.26	1	9	2	98	0.00	0.0	8.529	0.197	1	0	1	3
PL.49337	PL.49336	B	6 A (CWC)	7.39Y	123.1	0.00	1.89	1.05	1	8	2	97	0.00	0.0	8.677	0.148	8	2	2	2
PL.60078	PL.60077	B	#1/0 ACSR	7.39Y	123.2	0.00	1.79	12.02	5	87	19	98	0.00	0.0	7.715	0.003	0	0	0	15
PD.8939	PL.60078	B	25T	7.39Y	123.2	0.00	1.79	12.02	0	87	19	98	0.00	0.0	7.715	0.003	0	0	0	15
PL.60079	PD.8939	B	6 A (CWC)	7.39Y	123.2	0.04	1.82	12.02	9	87	19	98	0.02	0.0	7.783	0.068	0	0	0	15
PL.60083	PL.60079	B	6 A (CWC)	7.39Y	123.2	0.00	1.83	12.02	9	87	19	98	0.00	0.0	7.787	0.003	0	0	0	15
PD.8941-A	PL.60083	B	Closed	7.39Y	123.2	0.00	1.83	12.02	0	87	19	98	0.00	0.0	7.787	0.003	0	0	0	15
PD.8941-B	PD.8941-A	B	Closed	7.39Y	123.2	0.00	1.83	12.02	0	87	19	98	0.00	0.0	7.787	0.003	0	0	0	15
PL.60084	PD.8941-B	B	6 A (CWC)	7.39Y	123.1	0.03	1.86	12.02	9	87	19	98	0.02	0.0	7.843	0.056	8	2	1	15
PL.58932	PL.60084	B	6 A (CWC)	7.39Y	123.1	0.00	1.86	0.84	1	6	1	99	0.00	0.0	7.897	0.054	4	1	1	2
PL.58933	PL.58932	B	#1/0 ACSR	7.39Y	123.1	0.00	1.86	0.26	0	2	0	100	0.00	0.0	7.928	0.031	2	0	1	1
PL.57738	PL.60084	B	6 A (CWC)	7.39Y	123.1	0.03	1.88	8.76	6	63	14	98	0.01	0.0	7.926	0.083	12	3	2	11
PL.57739	PL.57738	B	6 A (CWC)	7.39Y	123.1	0.03	1.91	7.05	5	51	11	98	0.01	0.0	8.012	0.086	4	1	1	9
PL.49340	PL.57739	B	6 A (CWC)	7.38Y	123.0	0.04	1.95	6.44	5	46	10	98	0.01	0.0	8.153	0.140	0	0	0	8
PL.49341	PL.49340	B	6 A (CWC)	7.38Y	123.0	0.02	1.97	6.44	5	46	10	98	0.01	0.0	8.247	0.094	18	4	2	8
PL.49342	PL.49341	B	6 A (CWC)	7.38Y	123.0	0.01	1.98	4.00	3	29	6	98	0.00	0.0	8.298	0.051	2	0	1	6
PL.49343	PL.49342	B	6 A (CWC)	7.38Y	123.0	0.01	1.99	3.75	3	27	6	98	0.00	0.0	8.349	0.051	6	1	1	5
PL.49344	PL.49343	B	6 A (CWC)	7.38Y	123.0	0.01	2.00	2.98	2	21	5	97	0.00	0.0	8.454	0.105	0	0	0	4
PL.49345	PL.49344	B	6 A (CWC)	7.38Y	123.0	0.00	2.01	2.48	2	18	4	98	0.00	0.0	8.500	0.046	2	1	1	3
PL.49346	PL.49345	B	6 A (CWC)	7.38Y	123.0	0.00	2.01	2.13	2	15	3	98	0.00	0.0	8.553	0.053	15	3	2	2
PL.45996	PL.49344	B	6 A (CWC)	7.38Y	123.0	0.00	2.01	0.50	0	4	1	97	0.00	0.0	8.619	0.165	4	1	1	1
PL.49338	PL.60084	B	6 A (CWC)	7.39Y	123.1	0.00	1.86	1.35	1	10	2	98	0.00	0.0	7.912	0.069	0	0	0	1
PL.49339	PL.49338	B	6 A (CWC)	7.39Y	123.1	0.00	1.86	1.35	1	10	2	98	0.00	0.0	8.021	0.110	10	2	1	1
PL.60080	PL.60077	B	#1/0 ACSR	7.39Y	123.2	0.00	1.79	0.72	0	5	1	98	0.00	0.0	7.715	0.003	0	0	0	1
PD.8940	PL.60080	B	15T	7.39Y	123.2	0.00	1.79	0.72	0	5	1	98	0.00	0.0	7.715	0.003	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: Brodhead

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.60081	PD.8940	B	#1/0 ACSR	7.39Y	123.2	0.00	1.79	0.72	0	5	1	98	0.00	0.0	7.783	0.068	5	1	1	1
PL.60255	PL.60203	B	#1/0 ACSR	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	7.091	0.023	0	0	0	0
PL.60256	PL.60255	B	6 A (CWC)	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	7.094	0.003	0	0	0	0
PD.8953-A	PL.60256	B	Open	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	7.094	0.003	0	0	0	0
PL.61078	PL.61075	A	6 A (CWC)	7.42Y	123.7	0.00	1.32	1.15	1	8	2	97	0.00	0.0	6.620	0.003	0	0	0	4
PD.8857	PL.61078	A	15T	7.42Y	123.7	0.00	1.32	1.15	0	8	2	97	0.00	0.0	6.620	0.003	0	0	0	4
PL.60061	PD.8857	A	6 A (CWC)	7.42Y	123.7	0.01	1.33	1.15	1	8	2	97	0.00	0.0	6.823	0.203	8	2	2	4
PL.60059	PL.60061	A	6 A (CWC)	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	6.903	0.080	0	0	2	2
PL.61077	PL.61075	A	6 A (CWC)	7.42Y	123.7	0.00	1.32	1.66	1	12	3	97	0.00	0.0	6.620	0.003	0	0	0	1
PD.8856	PL.61077	A	15T	7.42Y	123.7	0.00	1.32	1.66	0	12	3	97	0.00	0.0	6.620	0.003	0	0	0	1
PL.60060	PD.8856	A	6 A (CWC)	7.42Y	123.7	0.00	1.32	1.66	1	12	3	97	0.00	0.0	6.637	0.017	12	3	1	1
PL.48924	PL.48922	B	#2 ACSR	7.43Y	123.8	0.00	1.16	1.16	1	8	2	97	0.00	0.0	6.062	0.000	0	0	0	3
PD.7576	PL.48924	B	40T	7.43Y	123.8	0.00	1.16	1.16	0	8	2	97	0.00	0.0	6.062	0.000	0	0	0	3
PL.48925	PD.7576	B	#2 ACSR	7.43Y	123.8	0.00	1.16	1.16	1	8	2	97	0.00	0.0	6.096	0.035	1	0	2	3
PL.48754	PL.48925	B	#2 ACSR	7.43Y	123.8	0.00	1.16	1.04	1	8	2	97	0.00	0.0	6.196	0.100	8	2	1	1
CP.70	PL.48752	ABC	Cap (450)	7.45Y	124.2	0.00	0.77	0.00	0	0	0	100	0.00	0.0	5.508	0.100	0	0	0	0
PL.48746	PL.48745	C	#2 ACSR	7.46Y	124.3	0.00	0.66	0.95	1	7	2	96	0.00	0.0	5.364	0.002	0	0	0	1
PD.7409	PL.48746	C	50QA	7.46Y	124.3	0.00	0.66	0.95	2	7	2	96	0.00	0.0	5.364	0.002	0	0	0	1
PL.48747	PD.7409	C	#2 ACSR	7.46Y	124.3	0.00	0.66	0.95	1	7	2	96	0.00	0.0	5.411	0.047	7	2	1	1
PL.47778	PL.47776	A	#2 ACSR	7.24Y	120.6	0.00	4.37	0.28	0	2	0	100	0.00	0.0	5.141	0.003	0	0	0	2
PD.7326	PL.47778	A	40QA	7.24Y	120.6	0.00	4.37	0.28	1	2	0	100	0.00	0.0	5.141	0.003	0	0	0	2
PL.57914	PD.7326	A	#2 ACSR	7.24Y	120.6	0.00	4.37	0.28	0	2	0	100	0.00	0.0	5.177	0.035	2	0	2	2
PL.60173	PL.64131	A	#1/0 ACSR	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	3.933	0.001	0	0	0	1
PD.8925	PL.60173	A	15T	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	3.933	0.001	0	0	0	1
PL.60174	PD.8925	A	#1/0 ACSR	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	4.047	0.114	0	0	1	1
PL.64057	PL.58636	B	#1/0 ACSR	7.35Y	122.6	0.00	2.43	0.95	0	7	2	96	0.00	0.0	2.903	0.056	7	2	2	2
PL.58615	PL.63422	B	#2 ACSR	7.39Y	123.1	0.00	1.86	1.62	1	12	3	97	0.00	0.0	2.165	0.000	0	0	0	2
PD.8015	PL.58615	B	10T	7.39Y	123.1	0.00	1.86	1.62	0	12	3	97	0.00	0.0	2.165	0.000	0	0	0	2
PL.52273	PD.8015	B	#2 ACSR	7.39Y	123.1	0.00	1.86	1.62	1	12	3	97	0.00	0.0	2.165	0.000	12	3	2	2
PL.47950	PL.52272	A	6 A (CWC)	7.39Y	123.2	0.00	1.77	1.57	1	11	3	96	0.00	0.0	2.056	0.006	0	0	0	2
PD.7524	PL.47950	A	70QA	7.39Y	123.2	0.00	1.77	1.57	0	11	3	96	0.00	0.0	2.056	0.006	0	0	0	2

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Balanced Voltage Drop Report
Source: Brodhead

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.47951	PD.7524	A	6 A (CWC)	7.39Y	123.2	0.00	1.77	1.57	1	11	3	96	0.00	0.0	2.102	0.045	0	0	1	2
PL.47952	PL.47951	A	6 A (CWC)	7.39Y	123.2	0.00	1.77	1.51	1	11	2	98	0.00	0.0	2.173	0.072	11	2	1	1
PL.52269	PL.61723	C	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.54	0	4	1	97	0.00	0.0	0.927	0.006	0	0	0	3
PD.7407	PL.52269	C	70QA	7.45Y	124.2	0.00	0.80	0.54	0	4	1	97	0.00	0.0	0.927	0.006	0	0	0	3
PL.49182	PD.7407	C	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.54	0	4	1	97	0.00	0.0	1.087	0.159	3	1	2	3
PL.49183	PL.49182	C	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.11	0	1	0	100	0.00	0.0	1.288	0.202	1	0	1	1
PL.61724	PL.61722	A	#1/0 ACSR	7.48Y	124.6	0.00	0.39	1.29	1	9	2	98	0.00	0.0	0.455	0.003	0	0	0	1
PD.9167	PL.61724	A	80T	7.48Y	124.6	0.00	0.39	1.29	0	9	2	98	0.00	0.0	0.455	0.003	0	0	0	1
PL.61725	PD.9167	A	#1/0 ACSR	7.48Y	124.6	0.00	0.40	1.29	1	9	2	98	0.00	0.0	0.510	0.056	9	2	1	1
PL.61721	PD.9167	A	#1/0 ACSR	7.48Y	124.6	0.00	0.39	0.00	0	0	0	100	0.00	0.0	0.572	0.118	0	0	0	0
PL.58392	PL.58391	C	#1/0 ACSR	7.49Y	124.9	0.00	0.14	0.91	0	7	1	99	0.00	0.0	0.165	0.001	0	0	0	2
PD.7369	PL.58392	C	70QA	7.49Y	124.9	0.00	0.14	0.91	0	7	1	99	0.00	0.0	0.165	0.001	0	0	0	2
PL.48503	PD.7369	C	#1/0 ACSR	7.49Y	124.9	0.00	0.14	0.91	0	7	1	99	0.00	0.0	0.213	0.048	7	1	2	2

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	12617	0	0	0	0	0	485	0.00	13103
KVAR	3318	0	0	0	0	0	1000		4317

Lowest Voltage = 118.53 on Element PL.60245
Max Accm VoltD = 6.47 on Element PL.60245
Max Elem VoltD = 0.77 on Element PL.58620