Balanced Voltage Drop Report
Source: Maplesville

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
Maplesville		ABC	SRC-Maples	7.50Y	125.0	0.00	0.00	518.96	0	11093	3646	95	0.00	0.0	0.000	0.000	0	0	0	1246
PL.53000	Maplesville	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	95.23	18	2051	621	96	0.01	0.0	0.002	0.002	0	0	0	210
PL.53003	PL.53000	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	95.23	18	2051	621	96	0.02	0.0	0.005	0.003	0	0	0	210
---------- Feeder No. 3 (Slate Lick F3) Beginning with Device PD.8062 ----------																				
PD.8062	PL.53003	ABC	480VWE	7.50Y	125.0	0.00	0.00	95.23	0	2051	621	96	0.00	0.0	0.005	0.003	0	0	0	210
PL.42958	PD.8062	ABC	336 MCM AC	7.49Y	124.9	0.10	0.10	95.23	18	2051	621	96	1.04	0.1	0.140	0.136	0	0	0	210
PL.44065	PL.42958	ABC	336 MCM AC	7.49Y	124.8	0.13	0.23	90.66	17	1950	593	96	1.29	0.1	0.329	0.189	22	6	1	199
PL.44066	PL.44065	ABC	336 MCM AC	7.48Y	124.7	0.08	0.31	89.64	17	1927	584	96	0.80	0.0	0.447	0.118	14	4	1	198
PL.44067	PL.44066	ABC	336 MCM AC	7.48Y	124.6	0.06	0.37	89.02	17	1912	578	96	0.57	0.0	0.532	0.085	5	1	1	197
PL.44068	PL.44067	C	#4 ACSR	7.48Y	124.6	0.00	0.37	10.66	8	77	20	97	0.00	0.0	0.537	0.006	0	0	0	8
PD.6905	PL.44068	C	60QA	7.48Y	124.6	0.00	0.37	10.66	18	77	20	97	0.00	0.0	0.537	0.006	0	0	0	8
PL.44009	PD.6905	C	#4 ACSR	7.48Y	124.6	0.03	0.41	10.66	8	77	20	97	0.02	0.0	0.618	0.080	20	5	2	8
PL.44010	PL.44009	C	#4 ACSR	7.47Y	124.6	0.01	0.42	7.86	6	57	15	97	0.00	0.0	0.667	0.049	39	10	4	6
PL.44011	PL.44010	C	#4 ACSR	7.47Y	124.6	0.00	0.42	2.42	2	18	5	96	0.00	0.0	0.716	0.050	11	3	1	2
PL.44012	PL.44011	C	#4 ACSR	7.47Y	124.6	0.00	0.42	0.91	1	7	2	96	0.00	0.0	0.785	0.068	7	2	1	1
PL.44282	PL.44067	ABC	336 MCM AC	7.48Y	124.6	0.03	0.40	85.22	16	1829	555	96	0.26	0.0	0.574	0.043	0	0	1	188
PL.44283	PL.44282	ABC	336 MCM AC	7.47Y	124.6	0.03	0.43	85.22	16	1829	555	96	0.29	0.0	0.621	0.047	0	0	0	187
PL.44284	PL.44283	ABC	336 MCM AC	7.47Y	124.5	0.04	0.47	85.22	16	1829	554	96	0.41	0.0	0.688	0.067	0	0	0	187
PL.44013	PL.44284	C	6 A (CWC)	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	0.694	0.006	0	0	0	0
PD.6957	PL.44013	C	60QA	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	0.694	0.006	0	0	0	0
PL.44014	PD.6957	C	6 A (CWC)	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	0.745	0.051	0	0	0	0
PL.44015	PL.44014	C	6 A (CWC)	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	0.769	0.025	0	0	0	0
PL.44285	PL.44284	ABC	336 MCM AC	7.47Y	124.5	0.07	0.55	85.22	16	1828	553	96	0.70	0.0	0.803	0.114	10	3	1	187
PL.44593	PL.44285	ABC	#3/0 ACSR	7.46Y	124.4	0.06	0.61	77.89	26	1669	510	96	0.63	0.0	0.865	0.063	31	8	3	168
PL.44591	PL.44593	A	#4 ACSR	7.46Y	124.4	0.01	0.62	2.88	2	21	5	97	0.00	0.0	0.956	0.090	10	3	2	3
PL.44592	PL.44591	A	#4 ACSR	7.46Y	124.4	0.00	0.62	1.56	1	11	3	96	0.00	0.0	1.032	0.076	11	3	1	1
PL.44594	PL.44593	ABC	#3/0 ACSR	7.46Y	124.3	0.13	0.73	75.48	25	1616	495	96	1.23	0.1	0.994	0.129	0	0	0	162
PL.44598	PL.44594	ABC	#3/0 ACSR	7.45Y	124.2	0.05	0.79	71.87	24	1537	472	96	0.50	0.0	1.053	0.058	12	3	1	152
PL.43325	PL.44598	A	6 A (CWC)	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	1.058	0.006	0	0	0	1
PD.6921	PL.43325	A	60QA	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	1.058	0.006	0	0	0	1

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

Balanced Voltage Drop Report
Source: Maplesville

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.42480	PD.6921	A	6 A (CWC)	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	1.207	0.149	0	0	1	1
PL.43091	PL.44598	ABC	#3/0 ACSR	7.45Y	124.1	0.10	0.89	70.91	24	1515	466	96	0.92	0.1	1.162	0.109	0	0	0	149
PL.43787	PL.43091	ABC	#3/0 ACSR	7.44Y	124.0	0.07	0.96	69.72	23	1489	458	96	0.64	0.0	1.241	0.079	17	4	3	147
PL.43788	PL.43787	ABC	#3/0 ACSR	7.44Y	124.0	0.04	1.00	68.95	23	1471	453	96	0.34	0.0	1.283	0.042	0	0	0	144
PL.43789	PL.43788	ABC	#3/0 ACSR	7.44Y	123.9	0.08	1.07	68.95	23	1471	452	96	0.65	0.0	1.381	0.098	290	135	5	144
PL.43769	PL.43789	ABC	#3/0 ACSR	7.43Y	123.9	0.05	1.12	54.79	18	1180	316	97	0.34	0.0	1.449	0.068	0	0	1	139
PL.44603	PL.43769	ABC	#3/0 ACSR	7.43Y	123.8	0.06	1.18	52.16	17	1123	301	97	0.40	0.0	1.536	0.088	0	0	0	131
PL.44604	PL.44603	C	#4 ACSR	7.43Y	123.8	0.00	1.18	1.80	1	13	3	97	0.00	0.0	1.542	0.006	0	0	0	1
PD.6960	PL.44604	C	60QA	7.43Y	123.8	0.00	1.18	1.80	3	13	3	97	0.00	0.0	1.542	0.006	0	0	0	1
PL.44605	PD.6960	C	#4 ACSR	7.43Y	123.8	0.01	1.18	1.80	1	13	3	97	0.00	0.0	1.682	0.140	13	3	1	1
PL.44606	PL.44603	ABC	#3/0 ACSR	7.43Y	123.8	0.06	1.24	51.56	17	1110	297	97	0.40	0.0	1.627	0.090	8	2	1	130
PL.44607	PL.44606	ABC	#3/0 ACSR	7.42Y	123.7	0.03	1.26	51.17	17	1101	294	97	0.18	0.0	1.668	0.041	0	0	0	129
PL.44608	PL.44607	C	6 A (CWC)	7.42Y	123.7	0.00	1.27	17.51	13	126	33	97	0.00	0.0	1.674	0.006	0	0	0	14
PD.6818	PL.44608	C	50L	7.42Y	123.7	0.00	1.27	17.51	35	126	33	97	0.00	0.0	1.674	0.006	0	0	0	14
PL.44609	PD.6818	C	6 A (CWC)	7.42Y	123.7	0.05	1.31	17.51	13	126	33	97	0.04	0.0	1.735	0.062	10	3	1	14
PL.44611	PL.44609	C	6 A (CWC)	7.42Y	123.7	0.01	1.32	7.14	5	51	14	96	0.00	0.0	1.760	0.024	13	3	1	5
PL.44229	PL.44611	C	6 A (CWC)	7.42Y	123.6	0.03	1.35	5.29	4	38	10	97	0.01	0.0	1.914	0.155	13	3	1	4
PL.44137	PL.44229	C	6 A (CWC)	7.42Y	123.6	0.01	1.36	3.52	3	25	7	96	0.00	0.0	2.003	0.088	25	7	3	3
PL.44610	PL.44609	C	6 A (CWC)	7.42Y	123.6	0.09	1.40	8.95	6	64	17	97	0.04	0.1	1.950	0.214	1	0	1	8
PL.43806	PL.44610	C	6 A (CWC)	7.41Y	123.6	0.03	1.43	8.85	6	63	17	97	0.01	0.0	2.028	0.078	10	3	1	7
PL.44138	PL.43806	C	6 A (CWC)	7.41Y	123.5	0.06	1.49	7.47	5	54	14	97	0.02	0.0	2.204	0.177	0	0	0	6
PL.42504	PL.44138	C	6 A (CWC)	7.41Y	123.5	0.00	1.49	0.60	0	4	1	97	0.00	0.0	2.287	0.083	4	1	1	1
PL.44139	PL.44138	C	6 A (CWC)	7.41Y	123.5	0.03	1.52	6.65	5	48	13	97	0.01	0.0	2.294	0.089	0	0	0	4
PL.42973	PL.44139	C	6 A (CWC)	7.41Y	123.5	0.00	1.52	0.00	0	0	0	100	0.00	0.0	2.357	0.063	0	0	0	0
PL.44140	PL.44139	C	6 A (CWC)	7.41Y	123.4	0.06	1.58	6.65	5	48	13	97	0.02	0.0	2.500	0.206	0	0	0	4
PL.44141	PL.44140	C	6 A (CWC)	7.40Y	123.4	0.01	1.59	2.41	2	17	5	96	0.00	0.0	2.627	0.128	17	5	1	1
PL.44142	PL.44140	C	#4 ACSR	7.40Y	123.4	0.02	1.60	4.23	3	30	8	97	0.00	0.0	2.648	0.148	18	5	1	3
PL.44041	PL.44142	C	#4 ACSR	7.40Y	123.4	0.00	1.60	1.72	1	12	3	97	0.00	0.0	2.749	0.101	12	3	2	2
PL.43390	PL.44138	C	#1/0 ACSR	7.41Y	123.5	0.00	1.49	0.22	0	2	0	100	0.00	0.0	2.292	0.088	2	0	1	1
PL.43770	PL.44607	ABC	#1/0 ACSR	7.42Y	123.7	0.04	1.30	45.33	20	975	261	97	0.24	0.0	1.712	0.044	13	4	1	115
PL.42505	PL.43770	ABC	#1/0 ACSR	7.42Y	123.7	0.02	1.32	44.71	19	962	257	97	0.15	0.0	1.741	0.029	7	2	1	114

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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.42506	PL.42505	ABC	#1/0 ACSR	7.41Y	123.6	0.10	1.42	44.41	19	955	255	97	0.67	0.1	1.870	0.129	14	4	1	113
PL.64392	PL.42506	ABC	#1/0 ACSR	7.41Y	123.5	0.03	1.45	43.76	19	941	251	97	0.20	0.0	1.909	0.039	0	0	0	112
PL.64390	PL.64392	ABC	#1/0 ACSR	7.41Y	123.5	0.03	1.48	42.86	19	921	245	97	0.17	0.0	1.943	0.034	0	0	1	111
PL.64391	PL.64390	ABC	#1/0 ACSR	7.41Y	123.5	0.03	1.50	42.84	19	920	245	97	0.16	0.0	1.976	0.033	13	3	1	110
PL.63215	PL.64391	ABC	#1/0 ACSR	7.41Y	123.5	0.03	1.54	42.24	18	907	242	97	0.21	0.0	2.019	0.043	0	0	0	109
PL.63216	PL.63215	ABC	#1/0 ACSR	7.41Y	123.4	0.03	1.57	41.57	18	893	238	97	0.20	0.0	2.063	0.043	0	0	0	108
PL.58492	PL.63216	C	6 A (CWC)	7.41Y	123.4	0.00	1.57	17.90	13	128	34	97	0.00	0.0	2.066	0.003	0	0	0	14
PD.8694	PL.58492	C	30T	7.41Y	123.4	0.00	1.57	17.90	0	128	34	97	0.00	0.0	2.066	0.003	0	0	0	14
PL.58493	PD.8694	C	6 A (CWC)	7.40Y	123.4	0.05	1.62	17.90	13	128	34	97	0.05	0.0	2.127	0.062	0	0	0	14
PL.58491	PL.58493	C	6 A (CWC)	7.40Y	123.3	0.12	1.74	15.96	11	114	30	97	0.10	0.1	2.295	0.168	0	0	0	11
PL.44043	PL.58491	C	#4 ACSR	7.39Y	123.2	0.01	1.76	6.94	5	50	13	97	0.00	0.0	2.350	0.055	13	4	1	6
PL.44044	PL.44043	C	#4 ACSR	7.39Y	123.2	0.01	1.77	5.08	4	36	10	96	0.00	0.0	2.411	0.061	36	10	5	5
PL.44045	PL.58491	C	6 A (CWC)	7.39Y	123.2	0.05	1.79	9.02	6	64	17	97	0.02	0.0	2.449	0.154	29	8	1	5
PL.44046	PL.44045	C	6 A (CWC)	7.39Y	123.2	0.04	1.84	4.97	4	36	9	97	0.01	0.0	2.679	0.229	11	3	1	4
PL.42503	PL.44046	C	#4 ACSR	7.39Y	123.2	0.00	1.84	0.82	1	6	2	95	0.00	0.0	2.717	0.038	6	2	1	1
PL.44047	PL.44046	C	6 A (CWC)	7.39Y	123.2	0.01	1.85	2.68	2	19	5	97	0.00	0.0	2.762	0.084	7	2	1	2
PL.44078	PL.44047	C	#4 ACSR	7.39Y	123.2	0.00	1.85	0.00	0	0	0	100	0.00	0.0	2.791	0.029	0	0	0	0
PL.62484	PL.44047	C	6 A (CWC)	7.39Y	123.2	0.00	1.85	1.72	1	12	3	97	0.00	0.0	2.765	0.003	0	0	0	1
PD.9353	PL.62484	C	20T	7.39Y	123.2	0.00	1.85	1.72	0	12	3	97	0.00	0.0	2.765	0.003	0	0	0	1
PL.62485	PD.9353	C	6 A (CWC)	7.39Y	123.1	0.01	1.86	1.72	1	12	3	97	0.00	0.0	3.090	0.324	12	3	1	1
PL.44048	PL.62485	C	6 A (CWC)	7.39Y	123.1	0.00	1.86	0.00	0	0	0	100	0.00	0.0	3.200	0.110	0	0	0	0
PL.58490	PL.58493	C	6 A (CWC)	7.40Y	123.4	0.01	1.63	1.94	1	14	4	96	0.00	0.0	2.206	0.079	7	2	2	3
PL.44042	PL.58490	C	6 A (CWC)	7.40Y	123.4	0.00	1.63	0.99	1	7	2	96	0.00	0.0	2.260	0.053	7	2	1	1
PL.44049	PL.63216	ABC	#1/0 ACSR	7.40Y	123.3	0.11	1.68	35.60	15	764	204	97	0.60	0.1	2.240	0.177	0	0	0	94
PL.43883	PL.44049	A	6 A (CWC)	7.40Y	123.3	0.00	1.68	1.39	1	10	3	96	0.00	0.0	2.246	0.006	0	0	0	1
PD.6962	PL.43883	A	60QA	7.40Y	123.3	0.00	1.68	1.39	2	10	3	96	0.00	0.0	2.246	0.006	0	0	0	1
PL.43884	PD.6962	A	6 A (CWC)	7.40Y	123.3	0.01	1.69	1.39	1	10	3	96	0.00	0.0	2.446	0.201	10	3	1	1
PL.72536	PL.44049	ABC	#1/0 ACSR	7.40Y	123.3	0.03	1.71	35.14	15	754	200	97	0.14	0.0	2.283	0.043	0	0	0	93
PL.72535	PL.72536	A	1/0 AL URD	7.40Y	123.3	0.00	1.71	2.44	1	17	5	96	0.00	0.0	2.322	0.038	17	5	1	1
PL.72537	PL.72536	ABC	#1/0 ACSR	7.39Y	123.1	0.19	1.90	34.33	15	736	196	97	0.95	0.1	2.585	0.301	0	0	0	92
PL.59059	PL.72537	ABC	#2 ACSR	7.38Y	123.1	0.04	1.94	17.36	10	372	98	97	0.13	0.0	2.687	0.102	0	0	1	49

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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.56349	PL.59059	C	#2 ACSR	7.38Y	123.1	0.00	1.94	3.18	2	23	6	97	0.00	0.0	2.693	0.006	0	0	0	4
PD.6871	PL.56349	C	60QA	7.38Y	123.1	0.00	1.94	3.18	5	23	6	97	0.00	0.0	2.693	0.006	0	0	0	4
PL.43885	PD.6871	C	#2 ACSR	7.38Y	123.1	0.00	1.94	3.18	2	23	6	97	0.00	0.0	2.720	0.027	0	0	0	4
PL.56346	PL.43885	C	#2 ACSR	7.38Y	123.1	0.00	1.95	1.66	1	12	3	97	0.00	0.0	2.751	0.031	0	0	0	3
PL.56350	PL.56346	C	#2 ACSR	7.38Y	123.1	0.00	1.95	0.01	0	0	0	100	0.00	0.0	2.795	0.044	0	0	1	1
PL.56347	PL.56346	C	#2 ACSR	7.38Y	123.1	0.00	1.95	1.65	1	12	3	97	0.00	0.0	2.793	0.042	12	3	2	2
PL.59457	PL.43885	C	#2 ACSR	7.38Y	123.1	0.00	1.95	1.52	1	11	3	96	0.00	0.0	2.795	0.075	0	0	0	1
PL.59459	PL.59457	C	1/0 AL URD	7.38Y	123.1	0.00	1.95	0.00	0	0	0	100	0.00	0.0	2.890	0.095	0	0	0	0
PL.59458	PL.59457	C	#2 ACSR	7.38Y	123.0	0.01	1.95	1.52	1	11	3	96	0.00	0.0	3.028	0.233	11	3	1	1
PL.56348	PL.59059	ABC	#2 ACSR	7.38Y	123.0	0.09	2.03	16.30	9	349	92	97	0.24	0.1	2.904	0.217	0	0	0	44
PL.43897	PL.56348	C	6 A (CWC)	7.38Y	123.0	0.01	2.04	25.79	18	184	49	97	0.01	0.0	2.910	0.006	0	0	0	23
PD.6819	PL.43897	C	50L	7.38Y	123.0	0.00	2.04	25.79	52	184	49	97	0.00	0.0	2.910	0.006	0	0	0	23
PL.64525	PD.6819	C	6 A (CWC)	7.37Y	122.9	0.06	2.09	25.79	18	184	49	97	0.08	0.0	2.959	0.050	0	0	0	23
PL.64526	PL.64525	C	6 A (CWC)	7.37Y	122.9	0.03	2.13	25.79	18	184	49	97	0.04	0.0	2.986	0.027	0	0	0	23
PL.64527	PL.64526	C	6 A (CWC)	7.37Y	122.8	0.08	2.20	25.79	18	184	49	97	0.11	0.1	3.052	0.067	0	0	0	23
PL.43898	PL.64527	C	6 A (CWC)	7.36Y	122.7	0.07	2.28	25.79	18	184	48	97	0.10	0.1	3.118	0.066	13	4	2	23
PL.44423	PL.43898	C	#4 ACSR	7.36Y	122.7	0.03	2.31	15.56	12	111	29	97	0.02	0.0	3.156	0.037	0	0	0	14
PL.44424	PL.44423	C	#4 ACSR	7.36Y	122.7	0.03	2.34	15.56	12	111	29	97	0.03	0.0	3.207	0.051	16	4	2	14
PL.44425	PL.44424	C	#4 ACSR	7.36Y	122.7	0.01	2.34	4.85	4	35	9	97	0.00	0.0	3.235	0.029	12	3	1	5
PL.44429	PL.44425	C	#4 ACSR	7.36Y	122.6	0.01	2.35	3.16	2	22	6	96	0.00	0.0	3.321	0.086	17	4	3	4
PL.44430	PL.44429	C	#4 ACSR	7.36Y	122.6	0.00	2.35	0.82	1	6	2	95	0.00	0.0	3.405	0.085	6	2	1	1
PL.44426	PL.44424	C	#4 ACSR	7.36Y	122.6	0.01	2.35	8.45	7	60	16	97	0.01	0.0	3.254	0.047	23	6	2	7
PL.44427	PL.44426	C	#4 ACSR	7.36Y	122.6	0.01	2.36	5.17	4	37	10	97	0.00	0.0	3.303	0.049	0	0	0	5
PL.44428	PL.44427	C	#4 ACSR	7.36Y	122.6	0.00	2.36	1.12	1	8	2	97	0.00	0.0	3.334	0.031	8	2	1	1
PL.43800	PL.44427	C	#4 ACSR	7.36Y	122.6	0.00	2.37	3.18	2	23	6	97	0.00	0.0	3.348	0.046	23	6	3	3
PL.43775	PL.44427	C	#2 ACSR	7.36Y	122.6	0.00	2.36	0.87	0	6	2	95	0.00	0.0	3.372	0.069	6	2	1	1
PL.43899	PL.43898	C	#4 ACSR	7.36Y	122.7	0.01	2.29	8.35	6	59	16	97	0.01	0.0	3.153	0.035	5	1	2	7
PL.44420	PL.43899	C	#4 ACSR	7.36Y	122.7	0.01	2.30	7.68	6	55	14	97	0.00	0.0	3.194	0.041	26	7	2	5
PL.44421	PL.44420	C	#4 ACSR	7.36Y	122.7	0.00	2.31	3.99	3	28	7	97	0.00	0.0	3.220	0.026	6	2	1	3
PL.44422	PL.44421	C	#4 ACSR	7.36Y	122.7	0.00	2.31	1.14	1	8	2	97	0.00	0.0	3.282	0.062	8	2	1	1
PL.42972	PL.44421	C	#2 ACSR	7.36Y	122.7	0.00	2.31	1.96	1	14	4	96	0.00	0.0	3.246	0.025	14	4	1	1

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Balanced Voltage Drop Report
Source: Maplesville

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.44431	PL.56348	ABC	#2 ACSR	7.38Y	122.9	0.04	2.07	7.71	4	165	44	97	0.05	0.0	3.113	0.209	0	0	0	21
PL.56351	PL.44431	A	#2 ACSR	7.38Y	122.9	0.00	2.07	1.28	1	9	2	98	0.00	0.0	3.245	0.132	9	2	1	1
PL.44432	PL.44431	ABC	#2 ACSR	7.38Y	122.9	0.01	2.08	7.28	4	156	41	97	0.01	0.0	3.164	0.051	0	0	0	20
PL.43875	PL.44432	C	6 A (CWC)	7.38Y	122.9	0.00	2.08	2.30	2	16	4	97	0.00	0.0	3.170	0.006	0	0	0	3
PD.6870	PL.43875	C	60QA	7.38Y	122.9	0.00	2.08	2.30	4	16	4	97	0.00	0.0	3.170	0.006	0	0	0	3
PL.44230	PD.6870	C	6 A (CWC)	7.37Y	122.9	0.01	2.09	2.30	2	16	4	97	0.00	0.0	3.349	0.179	8	2	2	3
PL.44231	PL.44230	C	6 A (CWC)	7.37Y	122.9	0.00	2.10	1.22	1	9	2	98	0.00	0.0	3.388	0.039	9	2	1	1
PL.43876	PL.44432	C	#2 ACSR	7.38Y	122.9	0.00	2.08	15.83	9	113	30	97	0.00	0.0	3.170	0.006	0	0	0	14
PD.6869	PL.43876	C	60QA	7.38Y	122.9	0.00	2.08	15.83	26	113	30	97	0.00	0.0	3.170	0.006	0	0	0	14
PL.44232	PD.6869	C	#2 ACSR	7.37Y	122.9	0.04	2.12	15.83	9	113	30	97	0.03	0.0	3.246	0.076	3	1	2	14
PL.44233	PL.44232	C	#2 ACSR	7.37Y	122.8	0.04	2.16	15.40	9	110	29	97	0.03	0.0	3.343	0.098	16	4	1	12
PL.44235	PL.44233	C	6 A (CWC)	7.37Y	122.8	0.00	2.17	6.74	5	48	13	97	0.00	0.0	3.349	0.006	0	0	0	6
PD.6941	PL.44235	C	60QA	7.37Y	122.8	0.00	2.17	6.74	11	48	13	97	0.00	0.0	3.349	0.006	0	0	0	6
PL.44240	PD.6941	C	6 A (CWC)	7.37Y	122.8	0.02	2.18	6.74	5	48	13	97	0.00	0.0	3.430	0.081	36	10	4	6
PL.44241	PL.44240	C	6 A (CWC)	7.37Y	122.8	0.00	2.18	1.65	1	12	3	97	0.00	0.0	3.467	0.037	12	3	2	2
PL.44099	PL.44233	C	#2 ACSR	7.37Y	122.8	0.00	2.16	0.00	0	0	0	100	0.00	0.0	3.394	0.051	0	0	0	0
PL.44100	PL.44099	C	#2 ACSR	7.37Y	122.8	0.00	2.16	0.00	0	0	0	100	0.00	0.0	3.414	0.020	0	0	0	0
PL.44234	PL.44233	C	6 A (CWC)	7.37Y	122.8	0.00	2.17	6.49	5	46	12	97	0.00	0.0	3.349	0.006	0	0	0	5
PD.6839	PL.44234	C	60QA	7.37Y	122.8	0.00	2.17	6.49	11	46	12	97	0.00	0.0	3.349	0.006	0	0	0	5
PL.44236	PD.6839	C	6 A (CWC)	7.37Y	122.8	0.02	2.18	6.49	5	46	12	97	0.01	0.0	3.423	0.074	12	3	2	5
PL.44237	PL.44236	C	6 A (CWC)	7.37Y	122.8	0.01	2.20	4.79	3	34	9	97	0.00	0.0	3.486	0.063	5	1	1	3
PL.44238	PL.44237	C	6 A (CWC)	7.37Y	122.8	0.01	2.21	4.05	3	29	8	96	0.00	0.0	3.543	0.058	13	4	1	2
PL.44239	PL.44238	C	6 A (CWC)	7.37Y	122.8	0.00	2.21	2.16	2	15	4	97	0.00	0.0	3.582	0.039	15	4	1	1
PL.56641	PL.44432	C	6 A (CWC)	7.38Y	122.9	0.00	2.08	3.71	3	26	7	97	0.00	0.0	3.171	0.007	0	0	0	3
PD.8326	PL.56641	C	20QA	7.38Y	122.9	0.00	2.08	3.71	19	26	7	97	0.00	0.0	3.171	0.007	0	0	0	3
PL.56642	PD.8326	C	6 A (CWC)	7.37Y	122.9	0.00	2.08	3.71	3	26	7	97	0.00	0.0	3.192	0.021	10	3	1	3
PL.43873	PL.56642	C	6 A (CWC)	7.37Y	122.9	0.00	2.09	2.33	2	17	4	97	0.00	0.0	3.221	0.029	0	0	0	2
PL.43874	PL.43873	C	6 A (CWC)	7.37Y	122.9	0.01	2.09	2.33	2	17	4	97	0.00	0.0	3.355	0.134	17	4	2	2
PL.42971	PL.43873	C	6 A (CWC)	7.37Y	122.9	0.00	2.09	0.00	0	0	0	100	0.00	0.0	3.330	0.109	0	0	0	0
PL.59062	PL.72537	ABC	#2 ACSR	7.38Y	123.0	0.06	1.96	15.40	9	330	88	97	0.16	0.0	2.747	0.162	0	0	0	37
PL.59065	PL.59062	A	6 A (CWC)	7.38Y	123.0	0.00	1.96	22.12	16	158	42	97	0.00	0.0	2.751	0.004	0	0	0	18

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: Maplesville

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.8669	PL.59065	A	50L	7.38Y	123.0	0.00	1.96	22.12	44	158	42	97	0.00	0.0	2.751	0.004	0	0	0	18
PL.59066	PD.8669	A	6 A (CWC)	7.37Y	122.8	0.23	2.20	22.12	16	158	42	97	0.28	0.2	2.982	0.231	0	0	0	18
PL.59057	PL.59066	A	#4 ACSR	7.37Y	122.8	0.00	2.20	0.00	0	0	0	100	0.00	0.0	3.078	0.096	0	0	1	1
PL.59058	PL.59066	A	6 A (CWC)	7.37Y	122.8	0.02	2.21	22.12	16	158	42	97	0.02	0.0	3.000	0.018	12	3	1	17
PL.44623	PL.59058	A	6 A (CWC)	7.36Y	122.6	0.14	2.35	20.45	15	146	39	97	0.15	0.1	3.150	0.150	0	0	0	16
PL.44624	PL.44623	A	6 A (CWC)	7.31Y	121.8	0.81	3.17	20.45	15	145	39	97	0.86	0.6	4.057	0.907	12	3	1	16
PL.44625	PL.44624	A	6 A (CWC)	7.31Y	121.8	0.07	3.24	18.82	13	133	35	97	0.07	0.1	4.145	0.089	8	2	1	15
PL.44626	PL.44625	A	6 A (CWC)	7.30Y	121.7	0.05	3.29	17.68	13	125	33	97	0.04	0.0	4.204	0.058	0	0	1	14
PL.44627	PL.44626	A	6 A (CWC)	7.30Y	121.7	0.05	3.34	17.66	13	125	33	97	0.05	0.0	4.268	0.065	0	0	0	13
PL.44628	PL.44627	A	6 A (CWC)	7.30Y	121.6	0.04	3.38	17.66	13	125	33	97	0.04	0.0	4.324	0.056	14	4	1	13
PL.57915	PL.44628	A	6 A (CWC)	7.29Y	121.6	0.04	3.42	15.73	11	111	29	97	0.03	0.0	4.381	0.057	12	3	1	12
PL.62713	PL.57915	A	6 A (CWC)	7.29Y	121.5	0.08	3.50	14.10	10	99	26	97	0.06	0.1	4.518	0.137	20	5	2	11
PL.62714	PL.62713	A	6 A (CWC)	7.29Y	121.5	0.00	3.50	11.24	8	79	21	97	0.00	0.0	4.518	0.000	0	0	0	9
PL.63175	PL.62714	A	6 A (CWC)	7.29Y	121.5	0.00	3.50	11.24	8	79	21	97	0.00	0.0	4.519	0.001	0	0	0	9
PL.63176	PL.63175	A	6 A (CWC)	7.29Y	121.5	0.05	3.55	11.24	8	79	21	97	0.03	0.0	4.612	0.093	0	0	0	9
PL.44630	PL.63176	A	#4 ACSR	7.29Y	121.4	0.02	3.57	3.73	3	26	7	97	0.00	0.0	4.735	0.123	0	0	0	2
PL.44631	PL.44630	A	#4 ACSR	7.29Y	121.4	0.01	3.58	3.73	3	26	7	97	0.00	0.0	4.807	0.072	15	4	1	2
PL.44632	PL.44631	A	#4 ACSR	7.29Y	121.4	0.01	3.58	1.58	1	11	3	96	0.00	0.0	4.980	0.172	11	3	1	1
PL.44629	PL.63176	A	6 A (CWC)	7.29Y	121.4	0.02	3.57	7.51	5	53	14	97	0.01	0.0	4.683	0.071	0	0	0	7
PL.43434	PL.44629	A	#4 ACSR	7.28Y	121.4	0.02	3.59	2.86	2	20	5	97	0.00	0.0	4.859	0.176	0	0	0	4
PL.44634	PL.43434	A	#2 ACSR	7.28Y	121.4	0.03	3.62	2.86	2	20	5	97	0.00	0.0	5.171	0.312	1	0	1	4
PL.44635	PL.44634	A	#2 ACSR	7.28Y	121.4	0.00	3.63	2.76	2	19	5	97	0.00	0.0	5.221	0.050	0	0	0	3
PL.44636	PL.44635	A	#2 ACSR	7.28Y	121.4	0.01	3.64	2.76	2	19	5	97	0.00	0.0	5.409	0.188	6	2	1	3
PL.44637	PL.44636	A	#2 ACSR	7.28Y	121.4	0.00	3.64	1.93	1	14	4	96	0.00	0.0	5.537	0.128	13	4	1	2
PL.44638	PL.44637	A	#2 ACSR	7.28Y	121.4	0.00	3.64	0.01	0	0	0	100	0.00	0.0	5.791	0.254	0	0	1	1
PL.59067	PL.44629	A	#4 ACSR	7.28Y	121.4	0.02	3.59	4.66	4	33	9	96	0.00	0.0	4.766	0.083	0	0	0	3
PL.59068	PL.59067	A	#2 ACSR	7.28Y	121.4	0.00	3.59	2.01	1	14	4	96	0.00	0.0	4.796	0.030	14	4	1	1
PL.59069	PL.59067	A	#4 ACSR	7.28Y	121.4	0.02	3.61	2.65	2	19	5	97	0.00	0.0	4.966	0.200	11	3	1	2
PL.44633	PL.59069	A	#4 ACSR	7.28Y	121.4	0.00	3.61	1.11	1	8	2	97	0.00	0.0	5.118	0.152	8	2	1	1
PL.63177	PL.62714	A	#1/0 ACSR	7.29Y	121.5	0.00	3.50	0.00	0	0	0	100	0.00	0.0	4.522	0.003	0	0	0	0
PD.9468	PL.63177	A	10T	7.29Y	121.5	0.00	3.50	0.00	0	0	0	100	0.00	0.0	4.522	0.003	0	0	0	0

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Balanced Voltage Drop Report
Source: Maplesville

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.63178	PD.9468	A	#1/0 ACSR	7.29Y	121.5	0.00	3.50	0.00	0	0	0	100	0.00	0.0	4.626	0.105	0	0	0	0
PL.59063	PL.59062	ABC	#2 ACSR	7.38Y	123.0	0.02	1.98	8.03	5	172	45	97	0.03	0.0	2.864	0.118	0	0	0	19
PL.59064	PL.59063	ABC	#2 ACSR	7.38Y	123.0	0.01	2.00	8.03	5	172	45	97	0.02	0.0	2.926	0.062	7	2	1	19
PL.44612	PL.59064	ABC	#2 ACSR	7.38Y	123.0	0.04	2.03	7.71	4	165	44	97	0.04	0.0	3.108	0.181	0	0	0	18
PL.44614	PL.44612	B	#4 ACSR	7.38Y	123.0	0.01	2.04	20.17	16	144	38	97	0.01	0.0	3.113	0.006	0	0	0	15
PD.6922	PL.44614	B	30T	7.38Y	123.0	0.00	2.04	20.17	0	144	38	97	0.00	0.0	3.113	0.006	0	0	0	15
PL.44615	PD.6922	B	#4 ACSR	7.37Y	122.9	0.09	2.12	20.17	16	144	38	97	0.09	0.1	3.216	0.103	12	3	1	15
PL.44616	PL.44615	B	#4 ACSR	7.37Y	122.9	0.02	2.15	18.48	14	132	35	97	0.02	0.0	3.245	0.028	12	3	1	14
PL.44617	PL.44616	B	#4 ACSR	7.37Y	122.8	0.03	2.18	16.73	13	119	31	97	0.03	0.0	3.290	0.045	23	6	2	13
PL.44618	PL.44617	B	#4 ACSR	7.37Y	122.8	0.01	2.19	13.56	10	97	25	97	0.01	0.0	3.314	0.024	29	8	3	11
PL.44619	PL.44618	B	#4 ACSR	7.37Y	122.8	0.01	2.20	9.46	7	67	18	97	0.01	0.0	3.358	0.044	32	8	3	8
PL.44620	PL.44619	B	#4 ACSR	7.37Y	122.8	0.01	2.21	5.02	4	36	9	97	0.00	0.0	3.402	0.044	11	3	1	5
PL.44621	PL.44620	B	#4 ACSR	7.37Y	122.8	0.00	2.22	3.44	3	24	6	97	0.00	0.0	3.439	0.037	15	4	3	4
PL.44622	PL.44621	B	#4 ACSR	7.37Y	122.8	0.00	2.22	1.29	1	9	2	98	0.00	0.0	3.484	0.045	9	2	1	1
PL.44613	PL.44612	B	#2 ACSR	7.38Y	123.0	0.01	2.04	2.97	2	21	6	96	0.00	0.0	3.219	0.112	0	0	0	3
PL.43436	PL.44613	B	6 A (CWC)	7.38Y	123.0	0.00	2.05	1.66	1	12	3	97	0.00	0.0	3.346	0.126	12	3	1	1
PL.63778	PL.44613	B	1/0 AL URD	7.38Y	123.0	0.00	2.04	1.31	1	9	2	98	0.00	0.0	3.270	0.050	0	0	0	2
PL.63779	PL.63778	B	1/0 AL URD	7.38Y	123.0	0.00	2.04	1.31	1	9	2	98	0.00	0.0	3.270	0.001	9	2	2	2
PL.59061	PL.72537	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	4.68	2	33	9	96	0.00	0.0	2.589	0.005	0	0	0	6
PD.8734	PL.59061	C	40QA	7.39Y	123.1	0.00	1.90	4.68	12	33	9	96	0.00	0.0	2.589	0.005	0	0	0	6
PL.58767	PD.8734	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	4.68	2	33	9	96	0.00	0.0	2.642	0.052	13	4	2	6
PL.63895	PL.58767	C	#1/0 ACSR	7.39Y	123.1	0.01	1.91	2.79	1	20	5	97	0.00	0.0	2.775	0.133	3	1	2	4
PL.63896	PL.63895	C	#1/0 ACSR	7.39Y	123.1	0.00	1.91	2.44	1	17	5	96	0.00	0.0	2.775	0.000	10	3	1	2
PL.56352	PL.63896	C	#2 ACSR	7.39Y	123.1	0.00	1.91	1.11	1	8	2	97	0.00	0.0	2.833	0.058	8	2	1	1
PL.63218	PL.63215	A	#1/0 ACSR	7.41Y	123.5	0.00	1.54	2.02	1	14	4	96	0.00	0.0	2.023	0.004	0	0	0	1
PD.9470	PL.63218	A	25T	7.41Y	123.5	0.00	1.54	2.02	0	14	4	96	0.00	0.0	2.023	0.004	0	0	0	1
PL.63219	PD.9470	A	#1/0 ACSR	7.41Y	123.5	0.00	1.54	2.02	1	14	4	96	0.00	0.0	2.037	0.014	0	0	0	1
PL.63217	PL.63219	A	1/0 AL URD	7.41Y	123.5	0.00	1.54	2.02	1	14	4	96	0.00	0.0	2.087	0.050	14	4	1	1
PL.64393	PL.64392	A	6 A (CWC)	7.41Y	123.5	0.00	1.45	2.69	2	19	5	97	0.00	0.0	1.915	0.006	0	0	0	1
PD.6840	PL.64393	A	60QA	7.41Y	123.5	0.00	1.45	2.69	4	19	5	97	0.00	0.0	1.915	0.006	0	0	0	1
PL.43592	PD.6840	A	6 A (CWC)	7.41Y	123.5	0.00	1.46	2.69	2	19	5	97	0.00	0.0	1.977	0.062	19	5	1	1

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

Balanced Voltage Drop Report
Source: Maplesville

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.44214	PL.43769	C	#2 ACSR	7.43Y	123.9	0.00	1.12	7.88	5	57	15	97	0.00	0.0	1.454	0.006	0	0	0	7
PD.6867	PL.44214	C	60QA	7.43Y	123.9	0.00	1.12	7.88	13	57	15	97	0.00	0.0	1.454	0.006	0	0	0	7
PL.44215	PD.6867	C	#2 ACSR	7.43Y	123.9	0.01	1.13	7.88	5	57	15	97	0.00	0.0	1.495	0.041	0	0	0	7
PL.42950	PL.44215	C	#2 ACSR	7.43Y	123.9	0.01	1.14	7.88	5	57	15	97	0.00	0.0	1.534	0.039	0	0	0	7
PL.42951	PL.42950	C	#2 ACSR	7.43Y	123.9	0.01	1.15	7.88	5	57	15	97	0.00	0.0	1.558	0.024	4	1	1	7
PL.44600	PL.42951	C	#2 ACSR	7.43Y	123.8	0.01	1.16	7.38	4	53	14	97	0.00	0.0	1.598	0.040	6	2	1	6
PL.44601	PL.44600	C	#2 ACSR	7.43Y	123.8	0.01	1.16	6.47	4	47	12	97	0.00	0.0	1.650	0.052	34	9	4	5
PL.44602	PL.44601	C	#2 ACSR	7.43Y	123.8	0.00	1.16	1.75	1	13	3	97	0.00	0.0	1.680	0.031	13	3	1	1
PL.43867	PL.43789	ABC	#4 ACSR	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	1.387	0.006	0	0	0	0
PD.6918	PL.43867	ABC	60QA	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	1.387	0.006	0	0	0	0
PL.44599	PD.6918	ABC	#4 ACSR	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	1.454	0.067	0	0	0	0
PL.43576	PL.44599	ABC	1/0 AL URD	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	1.500	0.046	0	0	0	0
PL.42949	PL.43091	A	#4 ACSR	7.45Y	124.1	0.00	0.89	3.59	3	26	7	97	0.00	0.0	1.167	0.006	0	0	0	2
PD.6868	PL.42949	A	60QA	7.45Y	124.1	0.00	0.89	3.59	6	26	7	97	0.00	0.0	1.167	0.006	0	0	0	2
PL.42952	PD.6868	A	#4 ACSR	7.45Y	124.1	0.00	0.89	3.59	3	26	7	97	0.00	0.0	1.194	0.026	26	7	2	2
PL.43786	PL.42952	A	#4 ACSR	7.45Y	124.1	0.00	0.89	0.00	0	0	0	100	0.00	0.0	1.259	0.066	0	0	0	0
PL.43323	PL.44598	C	#4 ACSR	7.45Y	124.2	0.00	0.79	1.14	1	8	2	97	0.00	0.0	1.058	0.006	0	0	0	1
PD.6961	PL.43323	C	60QA	7.45Y	124.2	0.00	0.79	1.14	2	8	2	97	0.00	0.0	1.058	0.006	0	0	0	1
PL.43324	PD.6961	C	#4 ACSR	7.45Y	124.2	0.00	0.79	1.14	1	8	2	97	0.00	0.0	1.102	0.043	8	2	1	1
PL.59793	PL.44594	A	#4 ACSR	7.46Y	124.3	0.00	0.74	10.84	8	78	21	97	0.00	0.0	0.998	0.003	0	0	0	10
PD.8829	PL.59793	A	30T	7.46Y	124.3	0.00	0.74	10.84	0	78	21	97	0.00	0.0	0.998	0.003	0	0	0	10
PL.59794	PD.8829	A	#4 ACSR	7.45Y	124.2	0.03	0.76	10.84	8	78	21	97	0.01	0.0	1.062	0.064	21	5	2	10
PL.59792	PL.59794	A	#4 ACSR	7.45Y	124.2	0.01	0.77	7.99	6	58	15	97	0.00	0.0	1.097	0.035	13	3	1	8
PL.44595	PL.59792	A	#4 ACSR	7.45Y	124.2	0.01	0.78	6.15	5	44	12	96	0.00	0.0	1.120	0.024	0	0	1	7
PL.44596	PL.44595	A	#4 ACSR	7.45Y	124.2	0.01	0.79	6.15	5	44	12	96	0.00	0.0	1.155	0.034	14	4	2	6
PL.44597	PL.44596	A	#4 ACSR	7.45Y	124.2	0.04	0.83	4.23	3	30	8	97	0.01	0.0	1.353	0.198	0	0	0	4
PL.43565	PL.44597	A	#2 ACSR	7.45Y	124.2	0.00	0.83	2.28	1	16	4	97	0.00	0.0	1.369	0.016	16	4	1	1
PL.57483	PL.44597	A	#4 ACSR	7.45Y	124.2	0.00	0.83	1.95	2	14	4	96	0.00	0.0	1.395	0.042	0	0	0	3
PL.57767	PL.57483	A	#4 ACSR	7.45Y	124.2	0.00	0.83	0.01	0	0	0	100	0.00	0.0	1.550	0.155	0	0	1	1
PL.57484	PL.57483	A	#4 ACSR	7.45Y	124.2	0.00	0.83	1.94	1	14	4	96	0.00	0.0	1.473	0.078	10	3	1	2
PL.44309	PL.57484	A	#4 ACSR	7.45Y	124.2	0.00	0.83	0.55	0	4	1	97	0.00	0.0	1.542	0.069	4	1	1	1

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

Balanced Voltage Drop Report
Source: Maplesville

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.58411	PL.44285	C	6 A (CWC)	7.47Y	124.5	0.00	0.55	20.67	15	149	39	97	0.00	0.0	0.804	0.001	0	0	0	18
PD.8581	PL.58411	C	25T	7.47Y	124.5	0.00	0.55	20.67	0	149	39	97	0.00	0.0	0.804	0.001	0	0	0	18
PL.58412	PD.8581	C	6 A (CWC)	7.47Y	124.5	0.00	0.55	20.67	15	149	39	97	0.00	0.0	0.804	0.000	0	0	0	18
PL.58409	PL.58412	C	6 A (CWC)	7.47Y	124.4	0.01	0.55	3.87	3	28	7	97	0.00	0.0	0.861	0.057	28	7	2	2
PL.58410	PL.58412	C	6 A (CWC)	7.46Y	124.4	0.08	0.63	16.81	12	121	32	97	0.08	0.1	0.916	0.113	4	1	1	16
PL.59717	PL.58410	C	#2 ACSR	7.46Y	124.4	0.00	0.64	5.29	3	38	10	97	0.00	0.0	0.959	0.042	38	10	3	3
PL.44018	PL.58410	C	6 A (CWC)	7.46Y	124.3	0.04	0.67	10.66	8	77	20	97	0.02	0.0	1.004	0.087	0	0	0	10
PL.44019	PL.44018	C	6 A (CWC)	7.46Y	124.3	0.01	0.69	10.66	8	77	20	97	0.01	0.0	1.028	0.024	0	0	0	10
PL.44583	PL.44019	C	6 A (CWC)	7.46Y	124.3	0.02	0.71	10.66	8	77	20	97	0.01	0.0	1.067	0.039	0	0	0	10
PL.44584	PL.44583	C	6 A (CWC)	7.45Y	124.2	0.05	0.76	10.66	8	77	20	97	0.03	0.0	1.186	0.119	8	2	1	10
PL.44277	PL.44584	C	6 A (CWC)	7.45Y	124.2	0.00	0.76	1.09	1	8	2	97	0.00	0.0	1.219	0.033	8	2	1	1
PL.44585	PL.44584	C	6 A (CWC)	7.45Y	124.2	0.01	0.77	8.45	6	61	16	97	0.00	0.0	1.215	0.029	10	3	2	8
PL.44121	PL.44585	C	#2 ACSR	7.45Y	124.2	0.01	0.78	2.18	1	16	4	97	0.00	0.0	1.436	0.221	16	4	1	1
PL.44586	PL.44585	C	6 A (CWC)	7.45Y	124.2	0.01	0.78	4.94	4	36	9	97	0.00	0.0	1.269	0.054	2	0	1	5
PL.44587	PL.44586	C	6 A (CWC)	7.45Y	124.2	0.01	0.79	4.72	3	34	9	97	0.00	0.0	1.301	0.032	7	2	1	4
PL.44588	PL.44587	C	6 A (CWC)	7.45Y	124.2	0.02	0.81	3.68	3	27	7	97	0.00	0.0	1.437	0.136	9	2	1	3
PL.44589	PL.44588	C	6 A (CWC)	7.45Y	124.2	0.00	0.81	2.45	2	18	5	96	0.00	0.0	1.473	0.036	0	0	0	2
PL.44590	PL.44589	C	6 A (CWC)	7.45Y	124.2	0.00	0.81	0.00	0	0	0	100	0.00	0.0	1.565	0.092	0	0	0	0
PL.43778	PL.44589	C	6 A (CWC)	7.45Y	124.2	0.00	0.82	2.45	2	18	5	96	0.00	0.0	1.538	0.065	18	5	2	2
PL.44016	PL.58410	C	6 A (CWC)	7.46Y	124.4	0.00	0.63	0.29	0	2	1	89	0.00	0.0	0.977	0.061	1	0	1	2
PL.42932	PL.44016	C	#2 ACSR	7.46Y	124.4	0.00	0.63	0.21	0	1	0	100	0.00	0.0	1.004	0.027	1	0	1	1
PL.44017	PL.44016	C	6 A (CWC)	7.46Y	124.4	0.00	0.63	0.00	0	0	0	100	0.00	0.0	1.070	0.093	0	0	0	0
PL.44166	PL.42958	C	#4 ACSR	7.49Y	124.9	0.00	0.11	13.72	11	99	26	97	0.00	0.0	0.146	0.006	0	0	0	11
PD.6858	PL.44166	C	25T	7.49Y	124.9	0.00	0.11	13.72	0	99	26	97	0.00	0.0	0.146	0.006	0	0	0	11
PL.43976	PD.6858	C	#4 ACSR	7.49Y	124.8	0.09	0.19	13.72	11	99	26	97	0.07	0.1	0.291	0.145	0	0	0	11
PL.44210	PL.43976	C	#4 ACSR	7.49Y	124.8	0.02	0.21	7.58	6	55	14	97	0.01	0.0	0.351	0.060	10	3	1	5
PL.44211	PL.44210	C	#4 ACSR	7.49Y	124.8	0.02	0.23	6.16	5	45	12	97	0.01	0.0	0.426	0.075	10	3	1	4
PL.44212	PL.44211	C	#4 ACSR	7.49Y	124.8	0.01	0.24	4.84	4	35	9	97	0.00	0.0	0.520	0.095	26	7	2	3
PL.44213	PL.44212	C	#4 ACSR	7.49Y	124.8	0.00	0.25	1.22	1	9	2	98	0.00	0.0	0.654	0.133	9	2	1	1
PL.42976	PL.43976	C	#2 ACSR	7.49Y	124.8	0.00	0.19	1.17	1	8	2	97	0.00	0.0	0.336	0.045	8	2	1	1
PL.44208	PL.43976	C	#4 ACSR	7.49Y	124.8	0.00	0.20	4.96	4	36	9	97	0.00	0.0	0.321	0.030	26	7	4	5

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: Maplesville

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.44209	PL.44208	C	#4 ACSR	7.49Y	124.8	0.00	0.20	1.40	1	10	3	96	0.00	0.0	0.379	0.058	10	3	1	1
PL.52998	Maplesville	ABC	#3/0 ACSR	7.50Y	125.0	0.00	0.00	193.54	65	4113	1429	94	0.12	0.0	0.002	0.002	0	0	0	444
PL.53002	PL.52998	ABC	#3/0 ACSR	7.50Y	125.0	0.01	0.01	193.54	65	4113	1429	94	0.18	0.0	0.005	0.003	0	0	0	444
---------- Feeder No. 1 (McWhorter F1) Beginning with Device PD.8061 ----------																				
PD.8061	PL.53002	ABC	480VWE	7.50Y	125.0	0.00	0.01	193.54	0	4113	1429	94	0.00	0.0	0.005	0.003	0	0	0	444
PL.44197	PD.8061	ABC	#3/0 ACSR	7.49Y	124.8	0.18	0.20	193.54	65	4113	1429	94	4.50	0.1	0.076	0.072	0	0	0	444
PL.44330	PL.44197	ABC	#3/0 ACSR	7.48Y	124.6	0.16	0.35	193.54	65	4108	1422	94	3.85	0.1	0.138	0.061	10	3	2	444
PL.43678	PL.44330	ABC	#3/0 ACSR	7.46Y	124.4	0.29	0.64	192.01	64	4071	1408	95	7.07	0.2	0.252	0.114	7	2	1	439
PL.43679	PL.43678	A	6 A (CWC)	7.46Y	124.4	0.00	0.64	4.29	3	31	8	97	0.00	0.0	0.258	0.006	0	0	0	2
PD.6902	PL.43679	A	60QA	7.46Y	124.4	0.00	0.64	4.29	7	31	8	97	0.00	0.0	0.258	0.006	0	0	0	2
PL.43680	PD.6902	A	6 A (CWC)	7.46Y	124.4	0.01	0.65	4.29	3	31	8	97	0.00	0.0	0.309	0.052	31	8	2	2
PL.43683	PL.43678	ABC	#3/0 ACSR	7.45Y	124.1	0.25	0.90	190.27	63	4027	1388	95	6.07	0.2	0.352	0.100	32	8	2	436
PL.43684	PL.43683	ABC	#3/0 ACSR	7.43Y	123.9	0.19	1.09	188.79	63	3988	1371	95	4.56	0.1	0.428	0.076	0	0	0	434
PL.43681	PL.43684	A	#2 ACSR	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	0.434	0.006	0	0	0	0
PD.6890	PL.43681	A	60QA	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	0.434	0.006	0	0	0	0
PL.43682	PD.6890	A	#2 ACSR	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	0.457	0.023	0	0	0	0
PL.43685	PL.43684	ABC	#3/0 ACSR	7.43Y	123.8	0.16	1.25	188.79	63	3984	1364	95	3.89	0.1	0.493	0.065	0	0	0	434
PL.43496	PL.43685	ABC	#3/0 ACSR	7.41Y	123.5	0.20	1.45	188.13	63	3966	1355	95	4.87	0.1	0.576	0.082	19	5	2	432
PL.43497	PL.43496	ABC	#3/0 ACSR	7.40Y	123.3	0.23	1.68	186.86	62	3933	1340	95	5.52	0.1	0.670	0.094	13	3	1	429
PL.43790	PL.43497	B	#1/0 ACSR	7.40Y	123.3	0.00	1.68	1.95	1	14	4	96	0.00	0.0	0.735	0.065	14	4	1	1
PL.44332	PL.43497	ABC	#3/0 ACSR	7.38Y	123.0	0.27	1.95	185.60	62	3901	1325	95	6.33	0.2	0.779	0.109	0	0	0	427
PL.43498	PL.44332	ABC	#3/0 ACSR	7.37Y	122.8	0.21	2.16	185.19	62	3886	1314	95	4.84	0.1	0.863	0.084	10	3	1	426
PL.43499	PL.43498	ABC	#3/0 ACSR	7.36Y	122.7	0.18	2.33	184.72	62	3871	1304	95	4.21	0.1	0.937	0.074	10	3	1	425
PL.43500	PL.43499	C	#2 ACSR	7.36Y	122.7	0.00	2.34	3.09	2	22	6	96	0.00	0.0	0.943	0.006	0	0	0	3
PD.6892	PL.43500	C	60QA	7.36Y	122.7	0.00	2.34	3.09	5	22	6	96	0.00	0.0	0.943	0.006	0	0	0	3
PL.43501	PD.6892	C	#2 ACSR	7.36Y	122.7	0.01	2.34	3.09	2	22	6	96	0.00	0.0	1.018	0.075	8	2	1	3
PL.43502	PL.43501	C	#2 ACSR	7.36Y	122.7	0.00	2.34	1.94	1	14	4	96	0.00	0.0	1.077	0.060	5	1	1	2
PL.43503	PL.43502	C	#2 ACSR	7.36Y	122.7	0.00	2.35	1.24	1	9	2	98	0.00	0.0	1.129	0.052	0	0	0	1
PL.44317	PL.43503	C	#2 ACSR	7.36Y	122.7	0.00	2.35	0.00	0	0	0	100	0.00	0.0	1.154	0.025	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: Maplesville

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.43504	PL.43503	C	#2 ACSR	7.36Y	122.7	0.00	2.35	1.24	1	9	2	98	0.00	0.0	1.159	0.030	9	2	1	1
PL.43505	PL.43499	ABC	#3/0 ACSR	7.35Y	122.5	0.16	2.50	183.20	61	3834	1289	95	3.75	0.1	1.004	0.067	10	3	1	421
PL.43506	PL.43505	ABC	#3/0 ACSR	7.34Y	122.4	0.13	2.63	182.74	61	3820	1281	95	3.05	0.1	1.058	0.055	32	8	2	420
PL.43507	PL.43506	ABC	#3/0 ACSR	7.33Y	122.1	0.25	2.88	181.24	60	3785	1268	95	5.83	0.2	1.164	0.106	0	0	0	418
PL.43660	PL.43507	ABC	#3/0 ACSR	7.32Y	122.0	0.12	3.00	181.24	60	3780	1260	95	2.71	0.1	1.213	0.049	0	0	0	418
PL.59789	PL.43660	ABC	#3/0 ACSR	7.32Y	121.9	0.08	3.07	157.02	52	3263	1116	95	1.57	0.0	1.251	0.038	0	0	0	343
PL.59790	PL.59789	ABC	#3/0 ACSR	7.30Y	121.7	0.18	3.25	156.48	52	3249	1111	95	3.56	0.1	1.338	0.087	0	0	0	341
PL.44302	PL.59790	ABC	#3/0 ACSR	7.28Y	121.4	0.36	3.62	154.55	52	3205	1095	95	7.14	0.2	1.515	0.178	0	0	0	337
PL.44303	PL.44302	ABC	#3/0 ACSR	7.28Y	121.3	0.08	3.70	153.65	51	3179	1080	95	1.63	0.1	1.556	0.041	0	0	0	336
PL.43305	PL.44303	C	6 A (CWC)	7.28Y	121.3	0.00	3.70	9.65	7	68	18	97	0.00	0.0	1.562	0.006	0	0	0	7
PD.6894	PL.43305	C	30T	7.28Y	121.3	0.00	3.70	9.65	0	68	18	97	0.00	0.0	1.562	0.006	0	0	0	7
PL.43306	PD.6894	C	6 A (CWC)	7.28Y	121.3	0.04	3.74	9.65	7	68	18	97	0.02	0.0	1.665	0.103	6	2	1	7
PL.43307	PL.43306	C	6 A (CWC)	7.27Y	121.1	0.12	3.86	8.84	6	62	16	97	0.06	0.1	1.956	0.291	0	0	0	6
PL.43308	PL.43307	C	#2 ACSR	7.27Y	121.1	0.01	3.87	7.64	4	54	14	97	0.00	0.0	1.998	0.042	24	6	1	5
PL.44358	PL.43308	C	#2 ACSR	7.27Y	121.1	0.01	3.88	4.18	2	29	8	96	0.00	0.0	2.101	0.103	0	0	0	4
PL.44359	PL.44358	C	#2 ACSR	7.27Y	121.1	0.00	3.89	4.18	2	29	8	96	0.00	0.0	2.139	0.038	14	4	1	4
PL.44360	PL.44359	C	#2 ACSR	7.27Y	121.1	0.00	3.89	2.19	1	15	4	97	0.00	0.0	2.206	0.067	0	0	0	3
PL.44258	PL.44360	C	#1/0 ACSR	7.27Y	121.1	0.00	3.89	0.28	0	2	1	89	0.00	0.0	2.264	0.059	2	1	1	1
PL.44361	PL.44360	C	#2 ACSR	7.27Y	121.1	0.00	3.89	1.33	1	9	2	98	0.00	0.0	2.301	0.095	9	2	1	1
PL.44260	PL.44360	C	#2 ACSR	7.27Y	121.1	0.00	3.89	0.59	0	4	1	97	0.00	0.0	2.290	0.084	4	1	1	1
PL.44362	PL.43307	C	6 A (CWC)	7.27Y	121.1	0.00	3.87	1.20	1	8	2	97	0.00	0.0	2.102	0.146	8	2	1	1
PL.44363	PL.44362	C	6 A (CWC)	7.27Y	121.1	0.00	3.87	0.00	0	0	0	100	0.00	0.0	2.180	0.078	0	0	0	0
PL.57549	PL.44303	ABC	#3/0 ACSR	7.27Y	121.1	0.18	3.88	150.44	50	3109	1060	95	3.50	0.1	1.649	0.092	15	4	1	329
PL.64704	PL.57549	ABC	#3/0 ACSR	7.25Y	120.8	0.29	4.17	149.74	50	3091	1051	95	5.47	0.2	1.794	0.145	0	0	0	328
PL.64705	PL.64704	ABC	#3/0 ACSR	7.25Y	120.8	0.00	4.17	149.74	50	3086	1043	95	0.00	0.0	1.794	0.000	11	3	1	328
PL.59460	PL.64705	A	#2 ACSR	7.25Y	120.8	0.01	4.18	2.68	2	19	5	97	0.00	0.0	1.923	0.129	0	0	0	1
PL.43435	PL.59460	A	#1/0 ACSR	7.25Y	120.8	0.00	4.18	0.00	0	0	0	100	0.00	0.0	1.999	0.076	0	0	0	0
PL.44364	PL.59460	A	#2 ACSR	7.25Y	120.8	0.00	4.18	2.68	2	19	5	97	0.00	0.0	1.986	0.063	19	5	1	1
PL.59462	PL.64705	ABC	#3/0 ACSR	7.25Y	120.8	0.08	4.24	148.33	49	3056	1035	95	1.45	0.0	1.833	0.039	13	3	1	326
PL.59463	PL.59462	ABC	#3/0 ACSR	7.23Y	120.5	0.23	4.47	147.71	49	3041	1029	95	4.33	0.1	1.951	0.118	0	0	0	325
PL.59464	PL.59463	ABC	#3/0 ACSR	7.21Y	120.2	0.35	4.82	147.22	49	3027	1020	95	6.50	0.2	2.130	0.178	0	0	1	324

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: Maplesville

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.59461	PL.59464	ABC	#3/0 ACSR	7.20Y	119.9	0.23	5.05	147.22	49	3020	1011	95	4.39	0.1	2.250	0.120	0	0	0	323
PL.44365	PL.59461	ABC	#3/0 ACSR	7.19Y	119.8	0.17	5.22	146.67	49	3004	1001	95	3.14	0.1	2.337	0.087	12	3	1	322
PL.44293	PL.44365	ABC	#3/0 ACSR	7.16Y	119.3	0.45	5.67	145.09	48	2968	988	95	8.33	0.3	2.573	0.236	0	0	0	319
PL.43780	PL.44293	ABC	#3/0 ACSR	7.14Y	118.9	0.38	6.05	145.09	48	2960	976	95	7.15	0.2	2.776	0.203	14	4	1	319
REG66	PL.43780	ABC	167Kkva	7.51Y	125.2	-6.26	-0.21	144.41	66	2938	962	95	percent Boost= 5.00 Tap= 8.0							318
PL.43781	REG66	ABC	#3/0 ACSR	7.46Y	124.3	0.90	0.69	137.19	46	2938	962	95	15.78	0.5	3.276	0.500	7	2	2	318
PL.44371	PL.43781	ABC	#3/0 ACSR	7.45Y	124.1	0.21	0.90	136.86	46	2916	937	95	3.71	0.1	3.394	0.118	0	0	1	316
PL.44372	PL.44371	ABC	#3/0 ACSR	7.44Y	124.0	0.11	1.01	136.86	46	2912	932	95	1.87	0.1	3.454	0.059	0	0	0	315
PL.44376	PL.44372	ABC	#3/0 ACSR	7.44Y	124.0	0.01	1.02	136.86	46	2910	929	95	0.18	0.0	3.459	0.006	0	0	0	315
PD.6974-A	PL.44376	ABC	Closed	7.44Y	124.0	0.00	1.02	136.86	0	2910	929	95	0.00	0.0	3.459	0.006	0	0	0	315
PD.6974-B	PD.6974-A	ABC	Closed	7.44Y	124.0	0.00	1.02	136.86	0	2910	929	95	0.00	0.0	3.459	0.006	0	0	0	315
PL.44375	PD.6974-B	ABC	#3/0 ACSR	7.44Y	123.9	0.05	1.07	136.86	46	2910	929	95	0.93	0.0	3.489	0.030	0	0	0	315
PL.44373	PL.44375	C	#3/0 ACSR	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	3.495	0.006	0	0	0	0
PD.6844	PL.44373	C	25QA	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	3.495	0.006	0	0	0	0
PL.44374	PD.6844	C	#3/0 ACSR	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	3.720	0.225	0	0	0	0
PL.44377	PL.44375	ABC	#3/0 ACSR	7.42Y	123.7	0.25	1.31	136.86	46	2909	927	95	4.35	0.1	3.627	0.138	0	0	0	315
PL.44207	PL.44377	A	#4 ACSR	7.42Y	123.7	0.00	1.32	1.82	1	13	3	97	0.00	0.0	3.643	0.016	13	3	2	2
PL.44378	PL.44377	ABC	#3/0 ACSR	7.41Y	123.5	0.14	1.46	136.26	45	2891	918	95	2.55	0.1	3.709	0.082	0	0	0	313
PL.59607	PL.44378	ABC	#3/0 ACSR	7.41Y	123.4	0.11	1.57	135.38	45	2870	909	95	1.91	0.1	3.771	0.062	0	0	0	312
PD.8801	PL.59607	ABC	106-200-10	7.41Y	123.4	0.00	1.57	135.38	68	2868	906	95	0.00	0.0	3.771	0.062	0	0	0	312
PL.59608	PD.8801	ABC	#3/0 ACSR	7.40Y	123.4	0.05	1.62	135.38	45	2868	906	95	0.93	0.0	3.801	0.030	0	0	0	312
PL.44383	PL.59608	ABC	#3/0 ACSR	7.39Y	123.2	0.16	1.78	134.89	45	2857	902	95	2.78	0.1	3.892	0.091	0	0	0	310
PL.44384	PL.44383	C	#4 ACSR	7.39Y	123.2	0.00	1.78	2.40	2	17	5	96	0.00	0.0	3.897	0.006	0	0	0	1
PD.6915	PL.44384	C	60QA	7.39Y	123.2	0.00	1.78	2.40	4	17	5	96	0.00	0.0	3.897	0.006	0	0	0	1
PL.44385	PD.6915	C	#4 ACSR	7.39Y	123.2	0.00	1.78	2.40	2	17	5	96	0.00	0.0	3.929	0.031	0	0	0	1
PL.43805	PL.44385	C	#4 ACSR	7.39Y	123.2	0.00	1.79	2.40	2	17	5	96	0.00	0.0	3.983	0.054	17	5	1	1
PL.44386	PL.44383	ABC	#3/0 ACSR	7.39Y	123.1	0.11	1.89	134.09	45	2837	894	95	1.94	0.1	3.956	0.064	6	2	1	309
PL.44388	PL.44386	C	#4 ACSR	7.39Y	123.1	0.00	1.89	2.48	2	18	5	96	0.00	0.0	3.962	0.006	0	0	0	1
PD.6856	PL.44388	C	60QA	7.39Y	123.1	0.00	1.89	2.48	4	18	5	96	0.00	0.0	3.962	0.006	0	0	0	1
PL.44389	PD.6856	C	#4 ACSR	7.39Y	123.1	0.00	1.90	2.48	2	18	5	96	0.00	0.0	4.013	0.051	18	5	1	1
PL.44387	PL.44386	ABC	#3/0 ACSR	7.38Y	123.0	0.12	2.01	132.96	44	2811	884	95	2.08	0.1	4.026	0.070	0	0	0	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: Maplesville

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.59179	PL.44387	ABC	#3/0 ACSR	7.38Y	122.9	0.07	2.08	132.96	44	2808	881	95	1.22	0.0	4.067	0.041	0	0	0	307
PL.59181	PL.59179	B	#4 ACSR	7.37Y	122.9	0.00	2.08	5.81	4	41	11	97	0.00	0.0	4.070	0.003	0	0	0	5
PD.8575	PL.59181	B	25T	7.37Y	122.9	0.00	2.08	5.81	0	41	11	97	0.00	0.0	4.070	0.003	0	0	0	5
PL.59814	PD.8575	B	#4 ACSR	7.37Y	122.9	0.03	2.11	5.81	4	41	11	97	0.01	0.0	4.177	0.107	0	0	1	5
PL.59815	PL.59814	B	#4 ACSR	7.37Y	122.9	0.01	2.12	5.80	4	41	11	97	0.00	0.0	4.233	0.056	11	3	1	4
PL.58348	PL.59815	B	#4 ACSR	7.37Y	122.9	0.02	2.15	4.27	3	30	8	97	0.00	0.0	4.377	0.143	10	3	1	3
PL.44297	PL.58348	B	#4 ACSR	7.37Y	122.8	0.02	2.16	2.91	2	21	5	97	0.00	0.0	4.547	0.170	12	3	1	2
PL.44298	PL.44297	B	#4 ACSR	7.37Y	122.8	0.00	2.17	1.29	1	9	2	98	0.00	0.0	4.624	0.077	9	2	1	1
PL.59180	PL.59179	ABC	#3/0 ACSR	7.36Y	122.7	0.21	2.29	131.03	44	2766	869	95	3.57	0.1	4.191	0.124	1	0	1	302
PL.44299	PL.59180	A	#2 ACSR	7.36Y	122.7	0.00	2.29	5.30	3	38	10	97	0.00	0.0	4.197	0.006	0	0	0	2
PD.6845	PL.44299	A	40QA	7.36Y	122.7	0.00	2.29	5.30	13	38	10	97	0.00	0.0	4.197	0.006	0	0	0	2
PL.43676	PD.6845	A	#2 ACSR	7.36Y	122.7	0.01	2.30	5.30	3	38	10	97	0.00	0.0	4.256	0.060	25	7	1	2
PL.43082	PL.43676	A	#2 ACSR	7.36Y	122.7	0.00	2.30	0.00	0	0	0	100	0.00	0.0	4.290	0.034	0	0	0	0
PL.43677	PL.43676	A	#2 ACSR	7.36Y	122.7	0.00	2.30	1.78	1	13	3	97	0.00	0.0	4.296	0.040	13	3	1	1
PL.44390	PL.59180	ABC	#3/0 ACSR	7.35Y	122.5	0.21	2.50	129.24	43	2724	853	95	3.54	0.1	4.317	0.126	0	0	0	299
PL.42945	PL.44390	A	#2 ACSR	7.35Y	122.5	0.00	2.51	0.38	0	3	1	95	0.00	0.0	4.360	0.042	3	1	1	1
PL.42946	PL.42945	A	#2 ACSR	7.35Y	122.5	0.00	2.51	0.00	0	0	0	100	0.00	0.0	4.435	0.076	0	0	0	0
PL.44391	PL.44390	A	#4 ACSR	7.35Y	122.5	0.00	2.51	0.67	1	5	1	98	0.00	0.0	4.323	0.006	0	0	0	1
PD.6855	PL.44391	A	60QA	7.35Y	122.5	0.00	2.51	0.67	1	5	1	98	0.00	0.0	4.323	0.006	0	0	0	1
PL.44392	PD.6855	A	#4 ACSR	7.35Y	122.5	0.00	2.51	0.67	1	5	1	98	0.00	0.0	4.365	0.042	0	0	0	1
PL.42944	PL.44392	A	#4 ACSR	7.35Y	122.5	0.00	2.51	0.67	1	5	1	98	0.00	0.0	4.409	0.044	5	1	1	1
PL.42947	PL.44390	ABC	#3/0 ACSR	7.34Y	122.3	0.16	2.66	128.89	43	2713	846	95	2.66	0.1	4.413	0.095	0	0	0	297
PL.42948	PL.42947	ABC	#3/0 ACSR	7.32Y	122.1	0.26	2.92	128.62	43	2705	841	95	4.29	0.2	4.567	0.154	0	0	1	296
PL.41952	PL.42948	A	6 A (CWC)	7.32Y	122.1	0.00	2.92	2.83	2	20	5	97	0.00	0.0	4.573	0.006	0	0	0	2
PD.6911	PL.41952	A	60QA	7.32Y	122.1	0.00	2.92	2.83	5	20	5	97	0.00	0.0	4.573	0.006	0	0	0	2
PL.41953	PD.6911	A	6 A (CWC)	7.32Y	122.1	0.00	2.93	2.83	2	20	5	97	0.00	0.0	4.635	0.063	20	5	2	2
PL.41955	PL.42948	B	#2 ACSR	7.32Y	122.1	0.00	2.92	8.44	5	60	16	97	0.00	0.0	4.573	0.006	0	0	0	6
PD.6872	PL.41955	B	60QA	7.32Y	122.1	0.00	2.92	8.44	14	60	16	97	0.00	0.0	4.573	0.006	0	0	0	6
PL.41956	PD.6872	B	#2 ACSR	7.32Y	122.1	0.02	2.94	8.44	5	60	16	97	0.01	0.0	4.655	0.083	0	0	0	6
PL.41954	PL.41956	B	#2 ACSR	7.32Y	122.0	0.02	2.97	8.44	5	60	16	97	0.01	0.0	4.745	0.089	13	3	1	6
PL.43088	PL.41954	B	#2 ACSR	7.32Y	122.0	0.02	2.99	6.62	4	47	12	97	0.01	0.0	4.873	0.128	8	2	2	5

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: Maplesville

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.43089	PL.43088	B	#2 ACSR	7.32Y	122.0	0.01	2.99	5.51	3	39	10	97	0.00	0.0	4.911	0.038	14	4	1	3
PL.41957	PL.43089	B	#2 ACSR	7.32Y	122.0	0.00	3.00	3.49	2	25	7	96	0.00	0.0	4.997	0.087	25	7	2	2
PL.43090	PL.43088	B	#2 ACSR	7.32Y	122.0	0.00	2.99	0.00	0	0	0	100	0.00	0.0	4.963	0.090	0	0	0	0
PL.41958	PL.42948	ABC	#3/0 ACSR	7.31Y	121.9	0.23	3.15	124.87	42	2620	814	95	3.66	0.1	4.707	0.140	0	0	1	287
PL.41959	PL.41958	ABC	#3/0 ACSR	7.31Y	121.8	0.06	3.20	124.86	42	2617	808	96	0.92	0.0	4.742	0.035	0	0	0	286
PL.44393	PL.41959	ABC	#3/0 ACSR	7.30Y	121.7	0.11	3.31	124.86	42	2616	807	96	1.77	0.1	4.810	0.068	31	8	2	286
PL.44322	PL.44393	ABC	#3/0 ACSR	7.29Y	121.4	0.26	3.57	123.39	41	2583	796	96	4.16	0.2	4.972	0.163	0	0	0	284
PL.44323	PL.44322	ABC	#3/0 ACSR	7.29Y	121.4	0.00	3.57	123.39	41	2579	790	96	0.07	0.0	4.975	0.003	0	0	0	284
PL.44324	PL.44323	ABC	#3/0 ACSR	7.29Y	121.4	0.00	3.58	123.39	41	2579	790	96	0.07	0.0	4.978	0.003	0	0	0	284
PL.72538	PL.44324	ABC	#3/0 ACSR	7.28Y	121.3	0.10	3.68	123.39	41	2579	790	96	1.57	0.1	5.039	0.061	0	0	0	284
PL.44394	PL.72538	ABC	#3/0 ACSR	7.27Y	121.2	0.16	3.83	123.39	41	2577	788	96	2.53	0.1	5.138	0.099	0	0	0	284
PL.44395	PL.44394	ABC	#3/0 ACSR	7.26Y	121.0	0.12	3.95	123.39	41	2574	784	96	1.90	0.1	5.212	0.074	0	0	0	284
PL.44396	PL.44395	ABC	#3/0 ACSR	7.23Y	120.6	0.47	4.43	123.39	41	2573	781	96	7.65	0.3	5.512	0.299	0	0	0	284
PL.44403	PL.44396	ABC	#3/0 ACSR	7.23Y	120.5	0.09	4.52	122.89	41	2554	767	96	1.51	0.1	5.571	0.059	4	1	1	281
PL.44404	PL.44403	ABC	#3/0 ACSR	7.22Y	120.4	0.11	4.63	122.69	41	2549	764	96	1.80	0.1	5.642	0.071	0	0	0	280
PL.44405	PL.44404	ABC	#3/0 ACSR	7.22Y	120.4	0.01	4.64	122.69	41	2547	761	96	0.14	0.0	5.648	0.006	0	0	0	280
PD.6972-A	PL.44405	ABC	Closed	7.22Y	120.4	0.00	4.64	122.69	0	2547	761	96	0.00	0.0	5.648	0.006	0	0	0	280
PD.6972-B	PD.6972-A	ABC	Closed	7.22Y	120.4	0.00	4.64	122.69	0	2547	761	96	0.00	0.0	5.648	0.006	0	0	0	280
PL.44406	PD.6972-B	ABC	#3/0 ACSR	7.20Y	120.1	0.28	4.93	122.69	41	2547	761	96	4.57	0.2	5.829	0.181	3	1	1	280
PL.44407	PL.44406	ABC	#3/0 ACSR	7.20Y	120.1	0.00	4.93	0.59	0	12	3	97	0.00	0.0	5.873	0.044	1	0	1	2
PL.50110	PL.44407	ABC	#3/0 ACSR	7.20Y	120.1	0.00	4.93	0.52	0	11	3	96	0.00	0.0	6.021	0.148	11	3	1	1
PL.58875	PL.50110	ABC	#3/0 ACSR	7.20Y	120.1	0.00	4.93	0.00	0	0	0	100	0.00	0.0	6.025	0.004	0	0	0	0
PD.8480-B	PL.58875	ABC	Open	7.20Y	120.1	0.00	4.93	0.00	0	0	0	100	0.00	0.0	6.025	0.004	0	0	0	0
PL.42959	PL.44406	ABC	#3/0 ACSR	7.20Y	119.9	0.15	5.08	121.95	41	2527	750	96	2.47	0.1	5.927	0.099	0	0	0	277
PL.52808	PL.42959	ABC	#3/0 ACSR	7.18Y	119.7	0.20	5.28	121.95	41	2524	747	96	3.16	0.1	6.054	0.127	0	0	0	277
PL.52810	PL.52808	ABC	#4 ACSR	7.18Y	119.7	0.00	5.28	0.10	0	2	1	89	0.00	0.0	6.059	0.006	0	0	0	2
PD.6904	PL.52810	ABC	60QA	7.18Y	119.7	0.00	5.28	0.10	0	2	1	89	0.00	0.0	6.059	0.006	0	0	0	2
PL.43286	PD.6904	ABC	#4 ACSR	7.18Y	119.7	0.00	5.28	0.10	0	2	1	89	0.00	0.0	6.093	0.034	2	1	1	2
PL.44288	PL.43286	ABC	#4 ACSR	7.18Y	119.7	0.00	5.28	0.00	0	0	0	100	0.00	0.0	6.129	0.036	0	0	1	1
PL.44289	PL.44288	ABC	#4 ACSR	7.18Y	119.7	0.00	5.28	0.00	0	0	0	100	0.00	0.0	6.203	0.073	0	0	0	0
PL.52809	PL.52808	ABC	#3/0 ACSR	7.18Y	119.6	0.13	5.41	121.85	41	2519	742	96	2.16	0.1	6.140	0.087	0	0	0	275

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Balanced Voltage Drop Report
Source: Maplesville

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.44290	PL.52809	ABC	#3/0 ACSR	7.17Y	119.5	0.12	5.54	121.85	41	2517	739	96	1.99	0.1	6.220	0.080	0	0	0	275
PL.44291	PL.44290	A	#4 ACSR	7.17Y	119.5	0.00	5.54	1.14	1	8	2	97	0.00	0.0	6.226	0.006	0	0	0	2
PD.6852	PL.44291	A	60QA	7.17Y	119.5	0.00	5.54	1.14	2	8	2	97	0.00	0.0	6.226	0.006	0	0	0	2
PL.44408	PD.6852	A	#4 ACSR	7.17Y	119.5	0.00	5.54	1.14	1	8	2	97	0.00	0.0	6.271	0.046	8	2	2	2
PL.44308	PL.44408	A	#4 ACSR	7.17Y	119.5	0.00	5.54	0.00	0	0	0	100	0.00	0.0	6.342	0.071	0	0	0	0
PL.44409	PL.44290	ABC	#3/0 ACSR	7.15Y	119.2	0.28	5.81	121.47	40	2507	734	96	4.46	0.2	6.400	0.180	0	0	0	273
PL.44410	PL.44409	A	#4 ACSR	7.15Y	119.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	6.405	0.006	0	0	0	0
PD.6880	PL.44410	A	60QA	7.15Y	119.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	6.405	0.006	0	0	0	0
PL.44411	PD.6880	A	#4 ACSR	7.15Y	119.2	0.00	5.81	0.00	0	0	0	100	0.00	0.0	6.488	0.083	0	0	0	0
PL.44412	PL.44409	ABC	#3/0 ACSR	7.15Y	119.1	0.09	5.91	121.47	40	2503	727	96	1.48	0.1	6.460	0.060	0	0	0	273
PL.43892	PL.44412	ABC	#3/0 ACSR	7.14Y	119.1	0.04	5.94	120.62	40	2483	720	96	0.60	0.0	6.484	0.025	21	6	1	272
PL.43893	PL.43892	ABC	#3/0 ACSR	7.14Y	119.0	0.08	6.03	119.59	40	2461	714	96	1.33	0.1	6.540	0.056	24	6	2	271
PL.43894	PL.43893	A	6 A (CWC)	7.14Y	119.0	0.00	6.03	1.37	1	9	2	98	0.00	0.0	6.546	0.006	0	0	0	1
PD.6912	PL.43894	A	60QA	7.14Y	119.0	0.00	6.03	1.37	2	9	2	98	0.00	0.0	6.546	0.006	0	0	0	1
PL.43895	PD.6912	A	6 A (CWC)	7.14Y	119.0	0.00	6.03	1.37	1	9	2	98	0.00	0.0	6.583	0.037	0	0	0	1
PL.43896	PL.43895	A	6 A (CWC)	7.14Y	119.0	0.00	6.03	1.37	1	9	2	98	0.00	0.0	6.602	0.019	9	2	1	1
PL.43869	PL.43893	ABC	#3/0 ACSR	7.13Y	118.8	0.19	6.22	117.99	39	2427	703	96	2.96	0.1	6.668	0.127	18	5	1	268
PL.43870	PL.43869	ABC	#3/0 ACSR	7.12Y	118.7	0.12	6.34	117.13	39	2406	694	96	1.80	0.1	6.746	0.078	7	2	2	267
PL.43413	PL.43870	C	6 A (CWC)	7.12Y	118.7	0.00	6.34	8.43	6	58	15	97	0.00	0.0	6.752	0.006	0	0	0	3
PD.6928	PL.43413	C	60QA	7.12Y	118.7	0.00	6.34	8.43	14	58	15	97	0.00	0.0	6.752	0.006	0	0	0	3
PL.43414	PD.6928	C	6 A (CWC)	7.12Y	118.6	0.01	6.35	8.43	6	58	15	97	0.01	0.0	6.791	0.039	13	4	1	3
PL.57950	PL.43414	C	6 A (CWC)	7.12Y	118.6	0.02	6.37	6.48	5	45	12	97	0.01	0.0	6.893	0.102	21	6	1	2
PL.57951	PL.57950	C	1/0 AL URD	7.12Y	118.6	0.00	6.38	3.44	2	24	6	97	0.00	0.0	6.973	0.081	24	6	1	1
PL.59798	PL.43870	ABC	#3/0 ACSR	7.12Y	118.6	0.07	6.40	113.98	38	2339	674	96	0.98	0.0	6.791	0.045	28	7	3	262
PL.59799	PL.59798	C	6 A (CWC)	7.12Y	118.6	0.00	6.40	4.29	3	30	8	97	0.00	0.0	6.797	0.006	0	0	0	3
PD.6882	PL.59799	C	60QA	7.12Y	118.6	0.00	6.40	4.29	7	30	8	97	0.00	0.0	6.797	0.006	0	0	0	3
PL.57885	PD.6882	C	6 A (CWC)	7.12Y	118.6	0.00	6.41	4.29	3	30	8	97	0.00	0.0	6.837	0.040	30	8	3	3
PL.59800	PL.59798	ABC	#3/0 ACSR	7.11Y	118.5	0.12	6.52	111.17	37	2280	658	96	1.81	0.1	6.878	0.087	0	0	0	256
PL.43287	PL.59800	C	#4 ACSR	7.11Y	118.5	0.00	6.53	3.69	3	25	7	96	0.00	0.0	6.884	0.006	0	0	0	1
PD.6883	PL.43287	C	60QA	7.11Y	118.5	0.00	6.53	3.69	6	25	7	96	0.00	0.0	6.884	0.006	0	0	0	1
PL.43288	PD.6883	C	#4 ACSR	7.11Y	118.4	0.04	6.56	3.69	3	25	7	96	0.01	0.0	7.101	0.217	0	0	0	1

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Balanced Voltage Drop Report
Source: Maplesville

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.44159	PL.43288	C	#4 ACSR	7.11Y	118.4	0.01	6.57	3.69	3	25	7	96	0.00	0.0	7.147	0.046	0	0	0	1
PL.44160	PL.44159	C	#4 ACSR	7.11Y	118.4	0.00	6.57	3.69	3	25	7	96	0.00	0.0	7.191	0.044	25	7	1	1
PL.44161	PL.59800	ABC	#3/0 ACSR	7.10Y	118.4	0.11	6.63	109.94	37	2253	648	96	1.59	0.1	6.957	0.079	15	4	2	255
REG67	PL.44161	ABC	167Kkva	7.53Y	125.4	-7.05	-0.42	109.23	50	2237	642	96	percent Boost= 5.62			Tap= 9.0				253
PL.44162	REG67	ABC	#3/0 ACSR	7.52Y	125.4	0.05	-0.37	103.08	34	2237	642	96	0.69	0.0	6.996	0.039	0	0	0	253
PL.44163	PL.44162	A	6 A (CWC)	7.52Y	125.4	0.00	-0.37	5.69	4	41	11	97	0.00	0.0	7.001	0.006	0	0	0	5
PD.6885	PL.44163	A	60QA	7.52Y	125.4	0.00	-0.37	5.69	9	41	11	97	0.00	0.0	7.001	0.006	0	0	0	5
PL.43984	PD.6885	A	6 A (CWC)	7.52Y	125.4	0.02	-0.35	5.69	4	41	11	97	0.00	0.0	7.076	0.074	15	4	2	5
PL.43985	PL.43984	A	6 A (CWC)	7.52Y	125.3	0.01	-0.34	3.57	3	26	7	97	0.00	0.0	7.131	0.055	0	0	0	3
PL.44278	PL.43985	A	#2 ACSR	7.52Y	125.3	0.00	-0.34	3.57	2	26	7	97	0.00	0.0	7.152	0.021	26	7	3	3
PL.44259	PL.43985	A	6 A (CWC)	7.52Y	125.3	0.00	-0.34	0.00	0	0	0	100	0.00	0.0	7.176	0.045	0	0	0	0
PL.43871	PL.44162	ABC	#3/0 ACSR	7.51Y	125.2	0.17	-0.20	101.19	34	2195	630	96	2.27	0.1	7.128	0.132	0	0	0	248
PL.43872	PL.43871	C	6 A (CWC)	7.51Y	125.2	0.00	-0.20	8.60	6	62	16	97	0.00	0.0	7.133	0.006	0	0	0	5
PD.6884	PL.43872	C	60QA	7.51Y	125.2	0.00	-0.20	8.60	14	62	16	97	0.00	0.0	7.133	0.006	0	0	0	5
PL.43415	PD.6884	C	6 A (CWC)	7.51Y	125.2	0.02	-0.18	8.60	6	62	16	97	0.01	0.0	7.206	0.072	55	15	4	5
PL.43416	PL.43415	C	6 A (CWC)	7.51Y	125.2	0.00	-0.18	0.97	1	7	2	96	0.00	0.0	7.258	0.052	7	2	1	1
PL.43417	PL.43871	ABC	#3/0 ACSR	7.51Y	125.2	0.03	-0.17	98.32	33	2130	611	96	0.38	0.0	7.151	0.024	0	0	0	243
PL.43418	PL.43417	ABC	#4 ACSR	7.51Y	125.2	0.00	-0.17	0.81	1	17	7	92	0.00	0.0	7.190	0.039	10	5	1	3
PL.43419	PL.43418	ABC	#4 ACSR	7.51Y	125.2	0.00	-0.17	0.31	0	7	2	96	0.00	0.0	7.222	0.032	7	2	2	2
PL.43420	PL.43417	ABC	#3/0 ACSR	7.51Y	125.1	0.07	-0.11	97.51	33	2113	603	96	0.84	0.0	7.204	0.053	8	2	1	240
PL.43421	PL.43420	ABC	#3/0 ACSR	7.50Y	125.1	0.04	-0.07	97.14	32	2104	600	96	0.47	0.0	7.234	0.030	10	3	2	239
PL.43424	PL.43421	B	#2 ACSR	7.50Y	125.1	0.00	-0.07	4.00	2	29	8	96	0.00	0.0	7.239	0.006	0	0	0	3
PD.6951	PL.43424	B	40QA	7.50Y	125.1	0.00	-0.07	4.00	10	29	8	96	0.00	0.0	7.239	0.006	0	0	0	3
PL.43425	PD.6951	B	#2 ACSR	7.50Y	125.1	0.00	-0.07	4.00	2	29	8	96	0.00	0.0	7.257	0.018	0	0	0	3
PL.43426	PL.43425	B	#2 ACSR	7.50Y	125.1	0.00	-0.06	4.00	2	29	8	96	0.00	0.0	7.277	0.020	5	1	1	3
PL.43427	PL.43426	B	#2 ACSR	7.50Y	125.1	0.00	-0.06	3.33	2	24	6	97	0.00	0.0	7.342	0.065	24	6	2	2
PL.43422	PL.43421	C	6 A (CWC)	7.50Y	125.1	0.00	-0.07	0.00	0	0	0	100	0.00	0.0	7.239	0.006	0	0	0	1
PD.6913	PL.43422	C	60QA	7.50Y	125.1	0.00	-0.07	0.00	0	0	0	100	0.00	0.0	7.239	0.006	0	0	0	1
PL.43423	PD.6913	C	6 A (CWC)	7.50Y	125.1	0.00	-0.07	0.00	0	0	0	100	0.00	0.0	7.260	0.021	0	0	1	1
PL.43428	PL.43421	ABC	#3/0 ACSR	7.49Y	124.9	0.18	0.11	95.37	32	2065	589	96	2.28	0.1	7.383	0.149	0	0	0	233
PL.43395	PL.43428	A	#2 ACSR	7.49Y	124.9	0.00	0.11	2.07	1	15	4	97	0.00	0.0	7.389	0.006	0	0	0	1

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Balanced Voltage Drop Report
Source: Maplesville

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.6851	PL.43395	A	60QA	7.49Y	124.9	0.00	0.11	2.07	3	15	4	97	0.00	0.0	7.389	0.006	0	0	0	1
PL.43396	PD.6851	A	#2 ACSR	7.49Y	124.9	0.00	0.11	2.07	1	15	4	97	0.00	0.0	7.434	0.045	15	4	1	1
PL.43988	PL.43428	ABC	#3/0 ACSR	7.49Y	124.8	0.08	0.19	93.84	31	2029	577	96	0.95	0.0	7.447	0.064	0	0	0	229
PL.43989	PL.43988	A	#4 ACSR	7.49Y	124.8	0.00	0.19	0.00	0	0	0	100	0.00	0.0	7.453	0.006	0	0	0	0
PD.6926	PL.43989	A	40QA	7.49Y	124.8	0.00	0.19	0.00	0	0	0	100	0.00	0.0	7.453	0.006	0	0	0	0
PL.43990	PD.6926	A	#4 ACSR	7.49Y	124.8	0.00	0.19	0.00	0	0	0	100	0.00	0.0	7.540	0.087	0	0	0	0
PL.43991	PL.43988	ABC	#3/0 ACSR	7.48Y	124.7	0.09	0.27	93.84	31	2028	576	96	1.07	0.1	7.520	0.073	0	0	0	229
PL.43992	PL.43991	ABC	#3/0 ACSR	7.47Y	124.4	0.30	0.57	93.66	31	2023	573	96	3.69	0.2	7.770	0.250	0	0	0	228
PL.43557	PL.43992	C	#4 ACSR	7.47Y	124.4	0.00	0.57	5.44	4	39	10	97	0.00	0.0	7.776	0.006	0	0	0	3
PD.6849	PL.43557	C	60QA	7.47Y	124.4	0.00	0.57	5.44	9	39	10	97	0.00	0.0	7.776	0.006	0	0	0	3
PL.43558	PD.6849	C	#4 ACSR	7.47Y	124.4	0.01	0.58	5.44	4	39	10	97	0.00	0.0	7.817	0.041	0	0	0	3
PL.43559	PL.43558	C	1/0 AL URD	7.47Y	124.4	0.00	0.58	2.16	1	16	4	97	0.00	0.0	7.823	0.006	0	0	0	2
PD.6930	PL.43559	C	40QA	7.47Y	124.4	0.00	0.58	2.16	5	16	4	97	0.00	0.0	7.823	0.006	0	0	0	2
PL.43560	PD.6930	C	1/0 AL URD	7.46Y	124.4	0.00	0.59	2.16	1	16	4	97	0.00	0.0	7.963	0.140	16	4	2	2
PL.44340	PL.43558	C	1/0 AL URD	7.46Y	124.4	0.01	0.59	3.28	2	24	6	97	0.00	0.0	8.047	0.230	24	6	1	1
PL.44254	PL.43992	ABC	#1/0 ACSR	7.44Y	124.0	0.41	0.98	91.85	40	1980	557	96	5.58	0.3	8.019	0.249	5	1	1	225
PL.58426	PL.44254	A	6 A (CWC)	7.44Y	124.0	0.00	0.98	7.06	5	51	13	97	0.00	0.0	8.021	0.003	0	0	0	7
PD.8587	PL.58426	A	30T	7.44Y	124.0	0.00	0.98	7.06	0	51	13	97	0.00	0.0	8.021	0.003	0	0	0	7
PL.58427	PD.8587	A	6 A (CWC)	7.44Y	124.0	0.01	0.99	7.06	5	51	13	97	0.00	0.0	8.050	0.029	0	0	0	7
PL.58425	PL.58427	A	6 A (CWC)	7.44Y	124.0	0.04	1.03	6.38	5	46	12	97	0.01	0.0	8.171	0.121	0	0	0	5
PL.44498	PL.58425	A	6 A (CWC)	7.44Y	124.0	0.01	1.04	2.76	2	20	5	97	0.00	0.0	8.270	0.098	0	0	0	2
PL.44499	PL.44498	A	6 A (CWC)	7.44Y	124.0	0.01	1.05	1.76	1	13	3	97	0.00	0.0	8.439	0.169	13	3	1	1
PL.42954	PL.44498	A	#2 ACSR	7.44Y	124.0	0.00	1.04	1.00	1	7	2	96	0.00	0.0	8.300	0.031	7	2	1	1
PL.43561	PL.58425	A	#4 ACSR	7.44Y	124.0	0.01	1.04	3.62	3	26	7	97	0.00	0.0	8.236	0.065	10	3	2	3
PL.44496	PL.43561	A	#4 ACSR	7.44Y	124.0	0.00	1.04	2.19	2	16	4	97	0.00	0.0	8.273	0.037	0	0	0	1
PL.44497	PL.44496	A	#4 ACSR	7.44Y	124.0	0.00	1.04	2.19	2	16	4	97	0.00	0.0	8.340	0.067	16	4	1	1
PL.58424	PL.58427	A	6 A (CWC)	7.44Y	124.0	0.00	0.99	0.69	0	5	1	98	0.00	0.0	8.069	0.019	5	1	2	2
PL.44122	PL.44254	ABC	#1/0 ACSR	7.42Y	123.7	0.32	1.30	89.27	39	1919	537	96	4.22	0.2	8.217	0.199	0	0	0	217
PL.43784	PL.44122	A	#4 ACSR	7.42Y	123.7	0.01	1.31	1.40	1	10	3	96	0.00	0.0	8.386	0.169	0	0	0	1
PL.43785	PL.43784	A	#4 ACSR	7.42Y	123.7	0.00	1.32	1.40	1	10	3	96	0.00	0.0	8.463	0.077	0	0	0	1
PL.64714	PL.43785	A	#1/0 ACSR	7.42Y	123.7	0.00	1.32	1.40	1	10	3	96	0.00	0.0	8.501	0.038	10	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: Maplesville

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.44354	PL.44122	ABC	#1/0 ACSR	7.39Y	123.2	0.48	1.79	87.61	38	1879	524	96	6.26	0.3	8.523	0.306	0	0	0	213
PL.44502	PL.44354	ABC	#1/0 ACSR	7.38Y	123.0	0.17	1.96	87.37	38	1868	517	96	2.20	0.1	8.631	0.108	0	0	0	212
PL.44505	PL.44502	ABC	#1/0 ACSR	7.38Y	122.9	0.12	2.08	86.82	38	1854	511	96	1.56	0.1	8.709	0.078	0	0	0	211
PL.44506	PL.44505	C	6 A (CWC)	7.38Y	122.9	0.00	2.08	1.38	1	10	3	96	0.00	0.0	8.715	0.006	0	0	0	1
PD.6914	PL.44506	C	60QA	7.38Y	122.9	0.00	2.08	1.38	2	10	3	96	0.00	0.0	8.715	0.006	0	0	0	1
PL.44507	PD.6914	C	6 A (CWC)	7.38Y	122.9	0.00	2.08	1.38	1	10	3	96	0.00	0.0	8.793	0.078	10	3	1	1
PL.52690	PL.44505	ABC	#1/0 ACSR	7.37Y	122.8	0.14	2.22	86.36	38	1842	507	96	1.81	0.1	8.801	0.091	0	0	0	210
PL.52691	PL.52690	ABC	#1/0 ACSR	7.36Y	122.7	0.08	2.30	86.36	38	1840	506	96	1.01	0.1	8.851	0.051	0	0	0	210
PL.44508	PL.52691	A	6 A (CWC)	7.36Y	122.7	0.00	2.30	7.88	6	56	15	97	0.00	0.0	8.857	0.006	0	0	0	5
PD.6886	PL.44508	A	40QA	7.36Y	122.7	0.00	2.30	7.88	20	56	15	97	0.00	0.0	8.857	0.006	0	0	0	5
PL.44509	PD.6886	A	6 A (CWC)	7.36Y	122.7	0.02	2.32	7.88	6	56	15	97	0.01	0.0	8.934	0.077	30	8	3	5
PL.44510	PL.44509	A	6 A (CWC)	7.36Y	122.7	0.01	2.33	3.65	3	26	7	97	0.00	0.0	8.991	0.056	12	3	1	2
PL.44511	PL.44510	A	6 A (CWC)	7.36Y	122.7	0.00	2.33	1.99	1	14	4	96	0.00	0.0	9.010	0.019	14	4	1	1
PL.57632	PL.52691	ABC	#1/0 ACSR	7.36Y	122.6	0.09	2.39	68.73	30	1463	404	96	0.90	0.1	8.923	0.071	0	0	0	164
PL.57679	PL.57632	A	6 A (CWC)	7.36Y	122.6	0.02	2.41	15.57	11	111	29	97	0.01	0.0	8.949	0.026	27	7	3	17
PL.57680	PL.57679	A	6 A (CWC)	7.36Y	122.6	0.00	2.41	11.82	8	84	22	97	0.00	0.0	8.952	0.003	0	0	0	14
PD.8390	PL.57680	A	50L	7.36Y	122.6	0.00	2.41	11.82	24	84	22	97	0.00	0.0	8.952	0.003	0	0	0	14
PL.57630	PD.8390	A	6 A (CWC)	7.35Y	122.6	0.03	2.44	11.82	8	84	22	97	0.02	0.0	9.013	0.061	14	4	2	14
PL.57629	PL.57630	A	6 A (CWC)	7.35Y	122.5	0.03	2.47	9.87	7	70	19	97	0.01	0.0	9.089	0.076	16	4	3	12
PL.42937	PL.57629	A	6 A (CWC)	7.35Y	122.5	0.03	2.49	7.63	5	54	14	97	0.01	0.0	9.170	0.080	9	2	1	9
PL.42940	PL.42937	A	6 A (CWC)	7.35Y	122.5	0.05	2.54	5.79	4	41	11	97	0.01	0.0	9.346	0.176	0	0	0	7
PL.43083	PL.42940	A	#4 ACSR	7.35Y	122.5	0.00	2.54	1.15	1	8	2	97	0.00	0.0	9.435	0.089	8	2	1	1
PL.44313	PL.42940	A	6 A (CWC)	7.35Y	122.4	0.02	2.56	4.64	3	33	9	96	0.00	0.0	9.458	0.112	19	5	1	6
PL.44314	PL.44313	A	6 A (CWC)	7.35Y	122.4	0.00	2.56	0.91	1	6	2	95	0.00	0.0	9.530	0.071	0	0	1	4
PL.63803	PL.44314	A	6 A (CWC)	7.35Y	122.4	0.00	2.56	0.91	1	6	2	95	0.00	0.0	9.561	0.031	6	2	3	3
PL.44315	PL.44313	A	6 A (CWC)	7.35Y	122.4	0.00	2.56	1.08	1	8	2	97	0.00	0.0	9.541	0.082	0	0	0	1
PL.44528	PL.44315	A	6 A (CWC)	7.35Y	122.4	0.01	2.57	1.08	1	8	2	97	0.00	0.0	9.680	0.139	0	0	0	1
PL.44529	PL.44528	A	6 A (CWC)	7.35Y	122.4	0.00	2.57	1.08	1	8	2	97	0.00	0.0	9.749	0.069	8	2	1	1
PL.42938	PL.42937	A	#4 ACSR	7.35Y	122.5	0.00	2.49	0.53	0	4	1	97	0.00	0.0	9.214	0.044	0	0	0	1
PL.42939	PL.42938	A	#4 ACSR	7.35Y	122.5	0.00	2.49	0.53	0	4	1	97	0.00	0.0	9.241	0.027	4	1	1	1
PL.57631	PL.57632	A	#1/0 ACSR	7.36Y	122.6	0.00	2.39	0.38	0	3	1	95	0.00	0.0	8.972	0.049	3	1	2	2

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Balanced Voltage Drop Report
Source: Maplesville

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.57633	PL.57632	ABC	#1/0 ACSR	7.35Y	122.5	0.10	2.49	63.41	28	1349	373	96	0.93	0.1	9.010	0.087	10	3	1	145
PL.56311	PL.57633	ABC	#1/0 ACSR	7.35Y	122.4	0.08	2.56	62.93	27	1338	369	96	0.70	0.1	9.077	0.067	0	0	0	144
PL.44080	PL.56311	ABC	#1/0 ACSR	7.34Y	122.3	0.18	2.75	62.93	27	1337	369	96	1.69	0.1	9.239	0.162	18	5	1	144
PL.44081	PL.44080	ABC	#1/0 ACSR	7.33Y	122.2	0.09	2.83	62.08	27	1317	362	96	0.79	0.1	9.316	0.077	0	0	0	143
PL.44082	PL.44081	ABC	#1/0 ACSR	7.33Y	122.1	0.08	2.92	61.00	27	1294	356	96	0.74	0.1	9.391	0.075	6	2	1	142
PL.44085	PL.44082	ABC	#1/0 ACSR	7.30Y	121.7	0.41	3.32	60.70	26	1286	353	96	3.64	0.3	9.765	0.374	13	4	1	141
PL.59856	PL.44085	B	#1/0 ACSR	7.30Y	121.7	0.00	3.32	3.09	1	22	6	96	0.00	0.0	9.768	0.003	0	0	0	2
PD.8896	PL.59856	B	40QA	7.30Y	121.7	0.00	3.32	3.09	8	22	6	96	0.00	0.0	9.768	0.003	0	0	0	2
PL.59902	PD.8896	B	#1/0 ACSR	7.30Y	121.7	0.01	3.33	3.09	1	22	6	96	0.00	0.0	9.847	0.079	0	0	1	2
PL.64381	PL.59902	B	#1/0 ACSR	7.30Y	121.7	0.02	3.35	3.08	1	22	6	96	0.00	0.0	10.093	0.246	0	0	0	1
PL.64382	PL.64381	B	#1/0 ACSR	7.30Y	121.7	0.00	3.35	3.08	1	22	6	96	0.00	0.0	10.093	0.000	22	6	1	1
PL.59826	PL.44085	ABC	#1/0 ACSR	7.29Y	121.6	0.11	3.43	59.04	26	1248	340	96	0.92	0.1	9.864	0.100	0	0	0	138
PL.59827	PL.59826	ABC	#1/0 ACSR	7.29Y	121.5	0.08	3.50	59.04	26	1247	339	96	0.67	0.1	9.937	0.072	0	0	0	138
PL.59829	PL.59827	ABC	#1/0 ACSR	7.29Y	121.4	0.07	3.58	58.37	25	1232	335	96	0.62	0.1	10.005	0.068	0	0	0	137
PL.59831	PL.59829	ABC	#1/0 ACSR	7.28Y	121.3	0.17	3.75	58.37	25	1231	334	97	1.49	0.1	10.169	0.164	0	0	0	137
PL.59830	PL.59831	A	#1/0 ACSR	7.28Y	121.3	0.00	3.75	3.17	1	22	6	96	0.00	0.0	10.170	0.001	0	0	0	1
PD.8834	PL.59830	A	25T	7.28Y	121.3	0.00	3.75	3.17	0	22	6	96	0.00	0.0	10.170	0.001	0	0	0	1
PL.59828	PD.8834	A	#1/0 ACSR	7.27Y	121.2	0.00	3.75	3.17	1	22	6	96	0.00	0.0	10.237	0.067	0	0	0	1
PL.44086	PL.59828	A	#4 ACSR	7.27Y	121.2	0.01	3.76	3.17	2	22	6	96	0.00	0.0	10.364	0.127	22	6	1	1
PL.59833	PL.59831	ABC	#1/0 ACSR	7.26Y	121.1	0.18	3.93	57.31	25	1207	327	97	1.56	0.1	10.348	0.179	0	0	0	136
PL.72533	PL.59833	ABC	#1/0 ACSR	7.26Y	121.0	0.07	4.00	56.74	25	1194	323	97	0.58	0.0	10.415	0.067	0	0	0	135
PL.72534	PL.72533	ABC	#1/0 ACSR	7.26Y	121.0	0.00	4.00	56.74	25	1193	322	97	0.00	0.0	10.415	0.000	0	0	0	135
PL.59834	PL.72534	ABC	#1/0 ACSR	7.25Y	120.8	0.21	4.21	56.74	25	1193	322	97	1.75	0.1	10.620	0.205	7	2	1	135
PL.59836	PL.59834	ABC	#1/0 ACSR	7.24Y	120.7	0.08	4.29	54.44	24	1143	308	97	0.66	0.1	10.704	0.083	0	0	0	130
PL.59841	PL.59836	ABC	#1/0 ACSR	7.24Y	120.6	0.09	4.38	47.75	21	1002	270	97	0.62	0.1	10.806	0.103	1	0	1	117
PL.59729	PL.59841	A	#1/0 ACSR	7.24Y	120.6	0.00	4.38	1.67	1	12	3	97	0.00	0.0	10.807	0.001	0	0	0	1
PD.8836	PL.59729	A	40QA	7.24Y	120.6	0.00	4.38	1.67	4	12	3	97	0.00	0.0	10.807	0.001	0	0	0	1
PL.59838	PD.8836	A	#1/0 ACSR	7.24Y	120.6	0.00	4.38	1.67	1	12	3	97	0.00	0.0	10.858	0.050	12	3	1	1
PL.59840	PL.59841	ABC	#1/0 ACSR	7.23Y	120.5	0.10	4.48	47.17	21	989	266	97	0.68	0.1	10.921	0.115	0	0	0	115
PL.59730	PL.59840	B	6 A (CWC)	7.23Y	120.5	0.00	4.48	10.63	8	74	20	97	0.00	0.0	10.927	0.006	0	0	0	11
PD.8837	PL.59730	B	35L	7.23Y	120.5	0.00	4.48	10.63	30	74	20	97	0.00	0.0	10.927	0.006	0	0	0	11

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Balanced Voltage Drop Report
Source: Maplesville

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.59731	PD.8837	B	6 A (CWC)	7.23Y	120.4	0.09	4.57	10.63	8	74	20	97	0.05	0.1	11.116	0.189	4	1	1	11
PL.59732	PL.59731	B	6 A (CWC)	7.22Y	120.3	0.12	4.69	10.03	7	70	18	97	0.06	0.1	11.371	0.255	0	0	0	10
PL.44025	PL.59732	B	6 A (CWC)	7.22Y	120.3	0.03	4.72	10.03	7	70	18	97	0.02	0.0	11.441	0.070	6	2	1	10
PL.44113	PL.44025	B	6 A (CWC)	7.21Y	120.2	0.04	4.75	9.16	7	64	17	97	0.02	0.0	11.539	0.098	14	4	1	9
PL.44114	PL.44113	B	6 A (CWC)	7.21Y	120.2	0.02	4.78	7.20	5	50	13	97	0.01	0.0	11.617	0.078	8	2	1	8
PL.44115	PL.44114	B	6 A (CWC)	7.21Y	120.2	0.03	4.80	6.08	4	42	11	97	0.01	0.0	11.739	0.122	13	4	2	7
PL.44133	PL.44115	B	6 A (CWC)	7.21Y	120.1	0.06	4.86	2.77	2	19	5	97	0.01	0.0	12.176	0.437	0	0	0	2
PL.43663	PL.44133	B	#4 ACSR	7.21Y	120.1	0.00	4.86	0.00	0	0	0	100	0.00	0.0	12.328	0.151	0	0	0	0
PL.44134	PL.44133	B	6 A (CWC)	7.21Y	120.1	0.02	4.88	2.77	2	19	5	97	0.00	0.0	12.340	0.164	6	2	1	2
PL.43485	PL.44134	B	6 A (CWC)	7.21Y	120.1	0.01	4.89	1.89	1	13	3	97	0.00	0.0	12.557	0.218	13	3	1	1
PL.42970	PL.43485	B	6 A (CWC)	7.21Y	120.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	12.689	0.132	0	0	0	0
PL.44116	PL.44115	B	6 A (CWC)	7.21Y	120.2	0.01	4.81	1.40	1	10	3	96	0.00	0.0	11.862	0.123	0	0	0	3
PL.44117	PL.44116	B	6 A (CWC)	7.21Y	120.2	0.01	4.82	1.40	1	10	3	96	0.00	0.0	12.022	0.160	2	0	2	3
PL.44118	PL.44117	B	6 A (CWC)	7.21Y	120.2	0.00	4.83	1.14	1	8	2	97	0.00	0.0	12.185	0.163	8	2	1	1
PL.59839	PL.59840	ABC	#1/0 ACSR	7.23Y	120.5	0.06	4.54	43.62	19	914	245	97	0.41	0.0	11.002	0.081	4	1	1	104
PL.44279	PL.59839	C	6 A (CWC)	7.23Y	120.5	0.00	4.54	3.50	2	24	6	97	0.00	0.0	11.007	0.006	0	0	0	1
PD.6837	PL.44279	C	50QA	7.23Y	120.5	0.00	4.54	3.50	7	24	6	97	0.00	0.0	11.007	0.006	0	0	0	1
PL.44280	PD.6837	C	6 A (CWC)	7.23Y	120.5	0.01	4.55	3.50	2	24	6	97	0.00	0.0	11.107	0.099	24	6	1	1
PL.44281	PL.59839	ABC	#1/0 ACSR	7.21Y	120.2	0.29	4.83	42.25	18	885	238	97	1.78	0.2	11.383	0.381	18	5	2	102
PL.41998	PL.44281	C	6 A (CWC)	7.21Y	120.2	0.00	4.83	1.53	1	11	3	96	0.00	0.0	11.455	0.073	11	3	1	1
PL.59473	PL.41998	C	#4/0 ACSR	7.21Y	120.2	0.00	4.83	0.00	0	0	0	100	0.00	0.0	11.471	0.016	0	0	0	0
PL.43694	PL.44281	ABC	#1/0 ACSR	7.21Y	120.1	0.05	4.87	40.30	18	842	225	97	0.27	0.0	11.447	0.064	5	3	1	98
PL.43695	PL.43694	ABC	#1/0 ACSR	7.21Y	120.1	0.01	4.88	40.03	17	837	222	97	0.07	0.0	11.462	0.016	0	0	0	97
PL.43692	PL.43695	C	#1/0 ACSR	7.21Y	120.1	0.00	4.89	31.79	14	221	59	97	0.01	0.0	11.468	0.006	0	0	0	23
PD.6939	PL.43692	C	50QA	7.21Y	120.1	0.00	4.89	31.79	64	221	59	97	0.00	0.0	11.468	0.006	0	0	0	23
PL.43696	PD.6939	C	#1/0 ACSR	7.20Y	120.0	0.08	4.97	31.79	14	221	59	97	0.12	0.1	11.578	0.110	2	1	1	23
PL.42955	PL.43696	C	#2 ACSR	7.20Y	120.0	0.00	4.97	1.50	1	10	3	96	0.00	0.0	11.648	0.071	10	3	1	1
PL.43697	PL.43696	C	#1/0 ACSR	7.19Y	119.8	0.24	5.21	29.94	13	208	55	97	0.32	0.2	11.953	0.375	33	9	2	21
PL.43698	PL.43697	C	#1/0 ACSR	7.19Y	119.8	0.03	5.24	25.25	11	175	46	97	0.04	0.0	12.013	0.060	15	4	2	19
PL.44531	PL.43698	C	#1/0 ACSR	7.18Y	119.7	0.03	5.27	23.14	10	161	42	97	0.04	0.0	12.073	0.061	0	0	0	17
PL.44191	PL.44531	C	#2 ACSR	7.18Y	119.7	0.00	5.27	0.00	0	0	0	100	0.00	0.0	12.339	0.265	0	0	0	0

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Balanced Voltage Drop Report
Source: Maplesville

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.44132	PL.44191	C	6 A (CWC)	7.18Y	119.7	0.00	5.27	0.00	0	0	0	100	0.00	0.0	12.344	0.006	0	0	0	0
PD.6973-B	PL.44132	C	Open	7.18Y	119.7	0.00	5.27	0.00	0	0	0	100	0.00	0.0	12.344	0.006	0	0	0	0
PL.57535	PL.44531	C	#2 ACSR	7.18Y	119.7	0.07	5.34	23.14	13	161	42	97	0.08	0.1	12.180	0.107	22	6	2	17
PL.63780	PL.57535	C	#2 ACSR	7.18Y	119.7	0.00	5.34	20.01	11	139	37	97	0.00	0.0	12.181	0.001	0	0	0	15
PL.63781	PL.63780	C	#2 ACSR	7.18Y	119.6	0.01	5.36	20.01	11	139	37	97	0.01	0.0	12.212	0.030	64	17	6	15
PL.57534	PL.63781	C	#2 ACSR	7.18Y	119.6	0.01	5.37	7.36	4	51	13	97	0.00	0.0	12.257	0.045	34	9	5	6
PL.44534	PL.57534	C	#2 ACSR	7.18Y	119.6	0.00	5.37	2.49	1	17	5	96	0.00	0.0	12.345	0.088	17	5	1	1
PL.57533	PL.63781	C	#2 ACSR	7.18Y	119.6	0.00	5.36	3.39	2	24	6	97	0.00	0.0	12.232	0.020	0	0	1	3
PL.44532	PL.57533	C	#2 ACSR	7.18Y	119.6	0.01	5.37	3.39	2	24	6	97	0.00	0.0	12.359	0.127	14	4	1	2
PL.44533	PL.44532	C	#2 ACSR	7.18Y	119.6	0.00	5.37	1.32	1	9	2	98	0.00	0.0	12.375	0.016	9	2	1	1
PL.43080	PL.43695	ABC	#1/0 ACSR	7.21Y	120.1	0.01	4.90	29.44	13	615	163	97	0.06	0.0	11.489	0.026	0	0	0	74
PL.43693	PL.43080	C	6 A (CWC)	7.21Y	120.1	0.01	4.91	33.24	24	232	62	97	0.02	0.0	11.494	0.006	0	0	0	22
PD.6836	PL.43693	C	50QA	7.21Y	120.1	0.00	4.91	33.24	66	232	62	97	0.00	0.0	11.494	0.006	0	0	0	22
PL.64819	PD.6836	C	6 A (CWC)	7.20Y	120.0	0.10	5.01	33.24	24	232	62	97	0.19	0.1	11.563	0.069	0	0	0	22
PL.64820	PL.64819	C	6 A (CWC)	7.19Y	119.9	0.11	5.12	33.24	24	231	61	97	0.20	0.1	11.639	0.075	7	2	1	22
PL.64818	PL.64820	C	6 A (CWC)	7.19Y	119.9	0.00	5.12	32.17	23	224	59	97	0.00	0.0	11.639	0.000	0	0	0	21
PL.59733	PL.64818	C	6 A (CWC)	7.19Y	119.9	0.01	5.13	32.17	23	224	59	97	0.01	0.0	11.644	0.006	0	0	0	21
PD.6830	PL.59733	C	70L	7.19Y	119.9	0.00	5.13	32.17	46	224	59	97	0.00	0.0	11.644	0.006	0	0	0	21
PL.44342	PD.6830	C	6 A (CWC)	7.18Y	119.7	0.12	5.25	32.17	23	224	59	97	0.20	0.1	11.728	0.083	10	3	2	21
PL.44344	PL.44342	C	6 A (CWC)	7.17Y	119.5	0.24	5.49	30.08	21	209	55	97	0.37	0.2	11.903	0.175	9	2	1	18
PL.44345	PL.44344	C	#4 ACSR	7.17Y	119.5	0.01	5.49	2.82	2	20	5	97	0.00	0.0	11.986	0.083	10	3	1	2
PL.44346	PL.44345	C	#4 ACSR	7.17Y	119.5	0.00	5.50	1.39	1	10	3	96	0.00	0.0	12.059	0.073	10	3	1	1
PL.44347	PL.44344	C	6 A (CWC)	7.17Y	119.4	0.08	5.56	25.98	19	180	48	97	0.10	0.1	11.967	0.064	0	0	0	15
PL.44348	PL.44347	C	6 A (CWC)	7.16Y	119.4	0.03	5.59	25.98	19	180	48	97	0.04	0.0	11.990	0.024	11	3	1	15
PL.44349	PL.44348	C	6 A (CWC)	7.16Y	119.4	0.06	5.64	22.19	16	154	41	97	0.07	0.0	12.045	0.055	0	0	0	13
PL.44350	PL.44349	C	6 A (CWC)	7.15Y	119.2	0.11	5.76	21.11	15	146	39	97	0.13	0.1	12.161	0.116	0	0	0	12
PL.42974	PL.44350	C	6 A (CWC)	7.15Y	119.2	0.01	5.76	3.05	2	21	6	96	0.00	0.0	12.277	0.116	21	6	2	2
PL.63205	PL.44350	C	6 A (CWC)	7.15Y	119.1	0.16	5.91	18.06	13	125	33	97	0.15	0.1	12.354	0.192	0	0	0	10
PL.63203	PL.63205	C	6 A (CWC)	7.15Y	119.1	0.00	5.91	0.00	0	0	0	100	0.00	0.0	12.403	0.049	0	0	0	0
PL.63204	PL.63205	C	#2 ACSR	7.15Y	119.1	0.00	5.92	1.84	1	13	3	97	0.00	0.0	12.411	0.058	13	3	1	1
PL.63206	PL.63205	C	6 A (CWC)	7.14Y	119.1	0.01	5.93	6.64	5	46	12	97	0.00	0.0	12.414	0.060	35	9	2	4

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Balanced Voltage Drop Report
Source: Maplesville

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.44343	PL.63206	C	6 A (CWC)	7.14Y	119.1	0.00	5.93	1.59	1	11	3	96	0.00	0.0	12.452	0.038	11	3	2	2
PL.63209	PL.63205	C	6 A (CWC)	7.14Y	119.1	0.01	5.93	2.74	2	19	5	97	0.00	0.0	12.541	0.187	19	5	1	1
PL.44536	PL.63209	C	6 A (CWC)	7.14Y	119.1	0.00	5.93	0.00	0	0	0	100	0.00	0.0	12.893	0.352	0	0	0	0
PL.63210	PL.63205	C	#2 ACSR	7.14Y	119.1	0.01	5.92	6.84	4	47	12	97	0.00	0.0	12.389	0.035	15	4	1	4
PL.63211	PL.63210	C	#2 ACSR	7.14Y	119.1	0.01	5.93	4.67	3	32	8	97	0.00	0.0	12.434	0.045	0	0	0	3
PL.63208	PL.63211	C	#2 ACSR	7.14Y	119.1	0.00	5.93	3.71	2	26	7	97	0.00	0.0	12.457	0.022	11	3	1	2
PL.44535	PL.63208	C	#2 ACSR	7.14Y	119.1	0.00	5.93	2.10	1	15	4	97	0.00	0.0	12.485	0.028	15	4	1	1
PL.63207	PL.63211	C	#2 ACSR	7.14Y	119.1	0.00	5.93	0.96	1	7	2	96	0.00	0.0	12.572	0.138	7	2	1	1
PL.43983	PL.44349	C	6 A (CWC)	7.16Y	119.4	0.00	5.65	1.08	1	7	2	96	0.00	0.0	12.112	0.067	7	2	1	1
PL.59884	PL.44348	C	#4 ACSR	7.16Y	119.4	0.00	5.59	2.23	2	15	4	97	0.00	0.0	12.047	0.057	15	4	1	1
PL.43389	PL.44342	C	6 A (CWC)	7.18Y	119.7	0.00	5.25	0.58	0	4	1	97	0.00	0.0	11.768	0.040	4	1	1	1
PL.44555	PL.43080	ABC	#1/0 ACSR	7.21Y	120.1	0.02	4.91	18.36	8	384	102	97	0.04	0.0	11.536	0.047	26	7	1	52
PL.44556	PL.44555	B	#4 ACSR	7.21Y	120.1	0.00	4.91	1.46	1	10	3	96	0.00	0.0	11.542	0.006	0	0	0	2
PD.6920	PL.44556	B	40QA	7.21Y	120.1	0.00	4.91	1.46	4	10	3	96	0.00	0.0	11.542	0.006	0	0	0	2
PL.44557	PD.6920	B	#4 ACSR	7.21Y	120.1	0.00	4.91	1.46	1	10	3	96	0.00	0.0	11.578	0.037	10	3	2	2
PL.44558	PL.44555	ABC	#1/0 ACSR	7.20Y	120.0	0.04	4.95	16.61	7	347	92	97	0.10	0.0	11.670	0.134	0	0	0	49
PL.44559	PL.44558	B	#2 ACSR	7.20Y	120.0	0.00	4.95	1.16	1	8	2	97	0.00	0.0	11.676	0.006	0	0	0	1
PD.6831	PL.44559	B	40QA	7.20Y	120.0	0.00	4.95	1.16	3	8	2	97	0.00	0.0	11.676	0.006	0	0	0	1
PL.44560	PD.6831	B	#2 ACSR	7.20Y	120.0	0.00	4.95	1.16	1	8	2	97	0.00	0.0	11.702	0.026	8	2	1	1
PL.44561	PL.44558	ABC	#1/0 ACSR	7.20Y	120.0	0.02	4.97	16.23	7	339	90	97	0.04	0.0	11.734	0.063	16	4	3	48
PL.44562	PL.44561	ABC	#1/0 ACSR	7.20Y	120.0	0.05	5.02	14.38	6	300	80	97	0.10	0.0	11.911	0.177	0	0	0	44
PL.44571	PL.44562	ABC	#1/0 ACSR	7.20Y	119.9	0.04	5.06	12.13	5	253	67	97	0.08	0.0	12.108	0.197	0	0	0	35
PL.44572	PL.44571	B	#2 ACSR	7.20Y	119.9	0.00	5.06	0.28	0	2	1	89	0.00	0.0	12.114	0.006	0	0	0	1
PD.6919	PL.44572	B	40QA	7.20Y	119.9	0.00	5.06	0.28	1	2	1	89	0.00	0.0	12.114	0.006	0	0	0	1
PL.44573	PD.6919	B	#2 ACSR	7.20Y	119.9	0.00	5.06	0.28	0	2	1	89	0.00	0.0	12.132	0.018	2	1	1	1
PL.62339	PL.44571	ABC	#1/0 ACSR	7.19Y	119.9	0.03	5.09	12.04	5	251	67	97	0.06	0.0	12.263	0.155	5	1	1	34
PL.62340	PL.62339	B	6 A (CWC)	7.19Y	119.9	0.00	5.10	10.69	8	74	20	97	0.00	0.0	12.269	0.006	0	0	0	10
PD.6834	PL.62340	B	40QA	7.19Y	119.9	0.00	5.10	10.69	27	74	20	97	0.00	0.0	12.269	0.006	0	0	0	10
PL.44574	PD.6834	B	6 A (CWC)	7.19Y	119.9	0.03	5.13	10.69	8	74	20	97	0.02	0.0	12.339	0.070	0	0	0	10
PL.43997	PL.44574	B	6 A (CWC)	7.19Y	119.8	0.04	5.17	9.13	7	63	17	97	0.02	0.0	12.439	0.100	0	0	0	9
PL.44201	PL.43997	B	6 A (CWC)	7.19Y	119.8	0.00	5.17	0.35	0	2	1	89	0.00	0.0	12.559	0.119	2	1	1	1

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Balanced Voltage Drop Report
Source: Maplesville

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.43998	PL.43997	B	6 A (CWC)	7.19Y	119.8	0.03	5.21	8.78	6	61	16	97	0.02	0.0	12.526	0.087	0	0	0	8
PL.43999	PL.43998	B	#4 ACSR	7.19Y	119.8	0.00	5.21	0.00	0	0	0	100	0.00	0.0	12.852	0.326	0	0	0	2
PL.44000	PL.43999	B	#4 ACSR	7.19Y	119.8	0.00	5.21	0.00	0	0	0	100	0.00	0.0	13.021	0.169	0	0	1	2
PL.44001	PL.44000	B	#4 ACSR	7.19Y	119.8	0.00	5.21	0.00	0	0	0	100	0.00	0.0	13.163	0.141	0	0	0	1
PL.44002	PL.44001	B	#4 ACSR	7.19Y	119.8	0.00	5.21	0.00	0	0	0	100	0.00	0.0	13.287	0.125	0	0	1	1
PL.44020	PL.43999	B	#4 ACSR	7.19Y	119.8	0.00	5.21	0.00	0	0	0	100	0.00	0.0	12.890	0.038	0	0	0	0
PL.44007	PL.43998	B	#4 ACSR	7.19Y	119.8	0.01	5.22	2.88	2	20	5	97	0.00	0.0	12.626	0.100	9	2	1	2
PL.44008	PL.44007	B	#4 ACSR	7.19Y	119.8	0.00	5.22	1.57	1	11	3	96	0.00	0.0	12.745	0.120	11	3	1	1
PL.44050	PL.44008	B	#4 ACSR	7.19Y	119.8	0.00	5.22	0.00	0	0	0	100	0.00	0.0	12.957	0.212	0	0	0	0
PL.44051	PL.44050	B	#4 ACSR	7.19Y	119.8	0.00	5.22	0.00	0	0	0	100	0.00	0.0	13.019	0.062	0	0	0	0
PL.44003	PL.43998	B	6 A (CWC)	7.19Y	119.8	0.02	5.22	5.90	4	41	11	97	0.00	0.0	12.624	0.098	25	7	2	4
PL.44004	PL.44003	B	6 A (CWC)	7.19Y	119.8	0.02	5.24	2.32	2	16	4	97	0.00	0.0	12.799	0.174	0	0	0	2
PL.44005	PL.44004	B	6 A (CWC)	7.19Y	119.8	0.00	5.25	2.20	2	15	4	97	0.00	0.0	12.861	0.062	15	4	1	1
PL.44006	PL.44005	B	6 A (CWC)	7.19Y	119.8	0.00	5.25	0.00	0	0	0	100	0.00	0.0	12.928	0.067	0	0	0	0
PL.44188	PL.44004	B	6 A (CWC)	7.19Y	119.8	0.00	5.24	0.12	0	1	0	100	0.00	0.0	12.864	0.065	1	0	1	1
PL.44575	PL.44574	B	6 A (CWC)	7.19Y	119.9	0.00	5.13	1.57	1	11	3	96	0.00	0.0	12.344	0.006	0	0	0	1
PD.6726	PL.44575	B	50QA	7.19Y	119.9	0.00	5.13	1.57	3	11	3	96	0.00	0.0	12.344	0.006	0	0	0	1
PL.43996	PD.6726	B	6 A (CWC)	7.19Y	119.9	0.00	5.13	1.57	1	11	3	96	0.00	0.0	12.364	0.020	11	3	1	1
PL.62338	PL.62339	ABC	#1/0 ACSR	7.19Y	119.8	0.10	5.19	8.23	4	172	46	97	0.12	0.1	12.947	0.684	0	0	0	23
PL.41980	PL.62338	ABC	#1/0 ACSR	7.19Y	119.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	12.980	0.033	0	0	0	1
PL.41981	PL.41980	ABC	#1/0 ACSR	7.19Y	119.8	0.00	5.19	0.00	0	0	0	100	0.00	0.0	13.053	0.073	0	0	1	1
PL.41979	PL.62338	ABC	#1/0 ACSR	7.19Y	119.8	0.03	5.22	8.23	4	172	45	97	0.03	0.0	13.136	0.189	0	0	0	22
PL.41983	PL.41979	B	6 A (CWC)	7.19Y	119.8	0.00	5.22	2.51	2	17	5	96	0.00	0.0	13.142	0.006	0	0	0	3
PD.6832	PL.41983	B	40QA	7.19Y	119.8	0.00	5.22	2.51	6	17	5	96	0.00	0.0	13.142	0.006	0	0	0	3
PL.59471	PD.6832	B	6 A (CWC)	7.19Y	119.8	0.01	5.23	2.51	2	17	5	96	0.00	0.0	13.277	0.135	6	2	1	3
PL.59472	PL.59471	B	6 A (CWC)	7.19Y	119.8	0.01	5.24	1.61	1	11	3	96	0.00	0.0	13.350	0.073	1	0	1	2
PL.54141	PL.59472	B	6 A (CWC)	7.19Y	119.8	0.00	5.24	1.45	1	10	3	96	0.00	0.0	13.434	0.084	10	3	1	1
PL.54143	PL.41979	B	#1/0 ACSR	7.19Y	119.8	0.00	5.22	20.68	9	144	38	97	0.00	0.0	13.143	0.007	0	0	0	18
PD.8134	PL.54143	B	40QA	7.19Y	119.8	0.00	5.22	20.68	52	144	38	97	0.00	0.0	13.143	0.007	0	0	0	18
PL.54142	PD.8134	B	6 A (CWC)	7.18Y	119.7	0.08	5.31	20.68	15	144	38	97	0.09	0.1	13.232	0.089	7	2	1	18
PL.59734	PL.54142	B	6 A (CWC)	7.18Y	119.6	0.08	5.39	19.67	14	137	36	97	0.08	0.1	13.324	0.092	6	2	1	17

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

Balanced Voltage Drop Report
Source: Maplesville

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.59873	PL.59734	B	6 A (CWC)	7.17Y	119.5	0.08	5.47	18.81	13	130	35	97	0.08	0.1	13.417	0.093	0	0	0	16
PL.59874	PL.59873	B	6 A (CWC)	7.17Y	119.5	0.04	5.51	17.72	13	123	33	97	0.04	0.0	13.473	0.055	0	0	0	15
PL.64700	PL.59874	B	6 A (CWC)	7.17Y	119.4	0.06	5.58	17.72	13	123	32	97	0.06	0.0	13.553	0.080	4	1	1	15
PL.64699	PL.64700	B	6 A (CWC)	7.16Y	119.4	0.02	5.59	17.08	12	118	31	97	0.02	0.0	13.575	0.022	0	0	0	14
PL.44054	PL.64699	B	6 A (CWC)	7.15Y	119.2	0.16	5.76	17.08	12	118	31	97	0.15	0.1	13.788	0.213	5	1	1	14
PL.44055	PL.44054	B	6 A (CWC)	7.15Y	119.2	0.06	5.81	16.32	12	113	30	97	0.05	0.0	13.869	0.081	11	3	1	13
PL.42513	PL.44055	B	#4 ACSR	7.15Y	119.2	0.00	5.81	0.95	1	7	2	96	0.00	0.0	13.937	0.069	7	2	1	1
PL.44056	PL.44055	B	6 A (CWC)	7.15Y	119.1	0.04	5.85	13.71	10	95	25	97	0.03	0.0	13.934	0.065	0	0	0	11
PL.44250	PL.44056	B	6 A (CWC)	7.15Y	119.1	0.00	5.85	1.22	1	8	2	97	0.00	0.0	13.985	0.051	8	2	1	1
PL.44057	PL.44056	B	6 A (CWC)	7.15Y	119.1	0.06	5.91	12.49	9	86	23	97	0.04	0.0	14.039	0.105	0	0	0	10
PL.44058	PL.44057	B	6 A (CWC)	7.14Y	119.0	0.04	5.95	11.63	8	80	21	97	0.02	0.0	14.111	0.072	0	0	0	9
PL.43596	PL.44058	B	6 A (CWC)	7.14Y	119.0	0.00	5.95	1.35	1	9	2	98	0.00	0.0	14.168	0.057	9	2	1	1
PL.44059	PL.44058	B	6 A (CWC)	7.14Y	119.0	0.05	6.01	10.28	7	71	19	97	0.03	0.0	14.227	0.116	0	0	0	8
PL.44060	PL.44059	B	6 A (CWC)	7.14Y	119.0	0.03	6.04	9.05	6	63	16	97	0.01	0.0	14.320	0.092	21	6	1	7
PL.44021	PL.44060	B	#1/0 ACSR	7.14Y	119.0	0.00	6.04	0.98	0	7	2	96	0.00	0.0	14.523	0.204	7	2	1	1
PL.44061	PL.44060	B	6 A (CWC)	7.14Y	118.9	0.04	6.07	4.97	4	34	9	97	0.01	0.0	14.491	0.172	4	1	1	5
PL.44062	PL.44061	B	6 A (CWC)	7.13Y	118.9	0.02	6.09	4.41	3	30	8	97	0.00	0.0	14.574	0.083	2	1	1	4
PL.44063	PL.44062	B	6 A (CWC)	7.13Y	118.9	0.02	6.11	4.07	3	28	7	97	0.00	0.0	14.684	0.110	9	3	1	3
PL.43573	PL.44063	B	#2 ACSR	7.13Y	118.9	0.01	6.11	2.41	1	17	4	97	0.00	0.0	14.898	0.214	17	4	1	1
PL.44064	PL.44063	B	6 A (CWC)	7.13Y	118.9	0.00	6.11	0.29	0	2	1	89	0.00	0.0	14.725	0.042	2	1	1	1
PL.43572	PL.44059	B	#4 ACSR	7.14Y	119.0	0.00	6.01	1.23	1	8	2	97	0.00	0.0	14.384	0.157	8	2	1	1
PL.43974	PL.44057	B	6 A (CWC)	7.15Y	119.1	0.00	5.91	0.86	1	6	2	95	0.00	0.0	14.105	0.067	6	2	1	1
PL.42934	PL.64699	B	#2 ACSR	7.16Y	119.4	0.00	5.59	0.00	0	0	0	100	0.00	0.0	13.599	0.024	0	0	0	0
PL.59875	PL.59873	B	6 A (CWC)	7.17Y	119.5	0.00	5.47	1.09	1	8	2	97	0.00	0.0	13.455	0.038	8	2	1	1
PL.44052	PL.41979	B	#4 ACSR	7.19Y	119.8	0.00	5.22	1.50	1	10	3	96	0.00	0.0	13.142	0.006	0	0	0	1
PD.6833	PL.44052	B	40QA	7.19Y	119.8	0.00	5.22	1.50	4	10	3	96	0.00	0.0	13.142	0.006	0	0	0	1
PL.44053	PD.6833	B	#4 ACSR	7.19Y	119.8	0.00	5.22	1.50	1	10	3	96	0.00	0.0	13.212	0.070	10	3	1	1
PL.41982	PL.44053	B	#4 ACSR	7.19Y	119.8	0.00	5.22	0.00	0	0	0	100	0.00	0.0	13.286	0.075	0	0	0	0
PL.44563	PL.44562	B	#2 ACSR	7.20Y	120.0	0.00	5.02	4.62	3	32	8	97	0.00	0.0	11.917	0.006	0	0	0	6
PD.6938	PL.44563	B	40QA	7.20Y	120.0	0.00	5.02	4.62	12	32	8	97	0.00	0.0	11.917	0.006	0	0	0	6
PL.44568	PD.6938	B	#2 ACSR	7.20Y	120.0	0.00	5.02	4.62	3	32	8	97	0.00	0.0	11.927	0.010	0	0	0	6

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Balanced Voltage Drop Report
Source: Maplesville

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.44022	PL.44568	B	#2 ACSR	7.20Y	120.0	0.00	5.02	1.15	1	8	2	97	0.00	0.0	11.988	0.061	8	2	2	2
PL.44569	PL.44568	B	#2 ACSR	7.20Y	120.0	0.01	5.03	3.47	2	24	6	97	0.00	0.0	11.999	0.072	3	1	1	4
PL.44570	PL.44569	B	#2 ACSR	7.20Y	120.0	0.00	5.03	3.11	2	22	6	96	0.00	0.0	12.047	0.048	22	6	3	3
PL.44564	PL.44562	B	#2 ACSR	7.20Y	120.0	0.00	5.02	2.12	1	15	4	97	0.00	0.0	11.917	0.006	0	0	0	3
PD.6835	PL.44564	B	40QA	7.20Y	120.0	0.00	5.02	2.12	5	15	4	97	0.00	0.0	11.917	0.006	0	0	0	3
PL.44565	PD.6835	B	#2 ACSR	7.20Y	120.0	0.00	5.02	2.12	1	15	4	97	0.00	0.0	11.952	0.035	0	0	0	3
PL.44566	PL.44565	B	#2 ACSR	7.20Y	120.0	0.00	5.02	2.05	1	14	4	96	0.00	0.0	11.999	0.048	13	3	1	2
PL.44567	PL.44566	B	#2 ACSR	7.20Y	120.0	0.00	5.02	0.17	0	1	0	100	0.00	0.0	12.039	0.039	1	0	1	1
PL.44119	PL.44565	B	6 A (CWC)	7.20Y	120.0	0.00	5.02	0.07	0	1	0	100	0.00	0.0	11.998	0.046	1	0	1	1
PL.44120	PL.44119	B	6 A (CWC)	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.086	0.087	0	0	0	0
PL.44202	PL.44561	B	#4 ACSR	7.20Y	120.0	0.00	4.97	3.20	2	22	6	96	0.00	0.0	11.789	0.055	22	6	1	1
PL.43486	PL.44281	A	6 A (CWC)	7.21Y	120.2	0.00	4.83	1.73	1	12	3	97	0.00	0.0	11.389	0.006	0	0	0	1
PD.6940	PL.43486	A	50QA	7.21Y	120.2	0.00	4.83	1.73	3	12	3	97	0.00	0.0	11.389	0.006	0	0	0	1
PL.43487	PD.6940	A	6 A (CWC)	7.21Y	120.2	0.00	4.83	1.73	1	12	3	97	0.00	0.0	11.432	0.044	12	3	1	1
PL.59837	PL.59836	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	20.07	9	140	37	97	0.00	0.0	10.707	0.003	0	0	0	13
PD.8835	PL.59837	B	35L	7.24Y	120.7	0.00	4.29	20.07	57	140	37	97	0.00	0.0	10.707	0.003	0	0	0	13
PL.59835	PD.8835	B	#1/0 ACSR	7.24Y	120.7	0.03	4.33	20.07	9	140	37	97	0.03	0.0	10.780	0.073	0	0	0	13
PL.44124	PL.59835	B	6 A (CWC)	7.23Y	120.5	0.18	4.51	20.07	14	140	37	97	0.19	0.1	10.979	0.199	0	0	0	13
PL.44125	PL.44124	B	6 A (CWC)	7.22Y	120.4	0.13	4.64	18.33	13	128	34	97	0.12	0.1	11.138	0.159	13	3	1	12
PL.44126	PL.44125	B	6 A (CWC)	7.22Y	120.3	0.11	4.74	15.17	11	106	28	97	0.09	0.1	11.295	0.158	0	0	0	9
PL.42512	PL.44126	B	6 A (CWC)	7.20Y	120.0	0.21	4.95	15.17	11	106	28	97	0.17	0.2	11.596	0.301	0	0	0	8
PL.41946	PL.42512	B	6 A (CWC)	7.20Y	120.0	0.03	4.98	2.30	2	16	4	97	0.00	0.0	11.873	0.278	0	0	0	2
PL.41947	PL.41946	B	#2 ACSR	7.20Y	120.0	0.01	4.99	2.25	1	16	4	97	0.00	0.0	11.988	0.114	0	0	0	1
PL.41948	PL.41947	B	#2 ACSR	7.20Y	120.0	0.00	4.99	2.25	1	16	4	97	0.00	0.0	12.050	0.063	16	4	1	1
PL.44130	PL.41946	B	6 A (CWC)	7.20Y	120.0	0.00	4.98	0.05	0	0	0	100	0.00	0.0	12.011	0.138	0	0	1	1
PL.44131	PL.44130	B	6 A (CWC)	7.20Y	120.0	0.00	4.98	0.00	0	0	0	100	0.00	0.0	12.023	0.012	0	0	0	0
PD.6973-A	PL.44131	B	Open	7.20Y	120.0	0.00	4.98	0.00	0	0	0	100	0.00	0.0	12.023	0.012	0	0	0	0
PL.41940	PL.42512	B	6 A (CWC)	7.19Y	119.9	0.14	5.09	12.87	9	90	24	97	0.10	0.1	11.836	0.240	0	0	0	6
PL.41941	PL.41940	B	6 A (CWC)	7.18Y	119.7	0.19	5.29	11.38	8	79	21	97	0.12	0.1	12.207	0.371	0	0	0	5
PL.43077	PL.41941	B	6 A (CWC)	7.18Y	119.7	0.00	5.29	3.09	2	21	6	96	0.00	0.0	12.275	0.069	21	6	1	1
PL.41942	PL.41941	B	6 A (CWC)	7.18Y	119.7	0.04	5.32	8.30	6	58	15	97	0.02	0.0	12.306	0.100	3	1	1	4

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Balanced Voltage Drop Report
Source: Maplesville

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.41943	PL.41942	B	6 A (CWC)	7.18Y	119.7	0.02	5.35	7.91	6	55	14	97	0.01	0.0	12.376	0.070	10	3	1	3
PL.41944	PL.41943	B	6 A (CWC)	7.18Y	119.6	0.01	5.36	6.47	5	45	12	97	0.00	0.0	12.414	0.038	0	0	0	2
PL.43600	PL.41944	B	#2 ACSR	7.18Y	119.6	0.00	5.36	0.00	0	0	0	100	0.00	0.0	12.457	0.044	0	0	0	0
PL.41945	PL.41944	B	6 A (CWC)	7.18Y	119.6	0.01	5.36	6.47	5	45	12	97	0.00	0.0	12.467	0.053	45	12	2	2
PL.41939	PL.41940	B	#4 ACSR	7.19Y	119.9	0.00	5.10	1.49	1	10	3	96	0.00	0.0	11.975	0.139	10	3	1	1
PL.44129	PL.44126	B	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.00	0	0	0	100	0.00	0.0	11.384	0.089	0	0	0	1
PL.41936	PL.44129	B	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.00	0	0	0	100	0.00	0.0	11.518	0.134	0	0	0	1
PL.41937	PL.41936	B	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.00	0	0	0	100	0.00	0.0	11.618	0.100	0	0	0	1
PL.41938	PL.41937	B	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.00	0	0	0	100	0.00	0.0	11.674	0.056	0	0	1	1
PL.43322	PL.44129	B	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.00	0	0	0	100	0.00	0.0	11.496	0.112	0	0	0	0
PL.44127	PL.44125	B	6 A (CWC)	7.22Y	120.4	0.00	4.64	1.34	1	9	2	98	0.00	0.0	11.160	0.022	2	0	1	2
PL.44128	PL.44127	B	6 A (CWC)	7.22Y	120.4	0.00	4.64	1.11	1	8	2	97	0.00	0.0	11.218	0.058	8	2	1	1
PL.43074	PL.44124	B	#2 ACSR	7.23Y	120.5	0.00	4.51	1.74	1	12	3	97	0.00	0.0	11.099	0.120	12	3	1	1
PL.44530	PL.59834	C	6 A (CWC)	7.25Y	120.8	0.00	4.21	5.90	4	41	11	97	0.00	0.0	10.626	0.006	0	0	0	4
PD.6838	PL.44530	C	50QA	7.25Y	120.8	0.00	4.21	5.90	12	41	11	97	0.00	0.0	10.626	0.006	0	0	0	4
PL.43688	PD.6838	C	6 A (CWC)	7.25Y	120.8	0.02	4.23	5.90	4	41	11	97	0.01	0.0	10.689	0.063	0	0	0	4
PL.43689	PL.43688	C	6 A (CWC)	7.25Y	120.8	0.02	4.25	5.90	4	41	11	97	0.01	0.0	10.777	0.087	15	4	2	4
PL.43690	PL.43689	C	6 A (CWC)	7.24Y	120.7	0.02	4.27	3.83	3	27	7	97	0.00	0.0	10.888	0.111	0	0	0	2
PL.43658	PL.43690	C	#4 ACSR	7.24Y	120.7	0.00	4.27	2.37	2	17	4	97	0.00	0.0	10.945	0.057	17	4	1	1
PL.43691	PL.43690	C	6 A (CWC)	7.24Y	120.7	0.00	4.27	1.46	1	10	3	96	0.00	0.0	10.972	0.084	10	3	1	1
PL.61685	PL.59833	C	6 A (CWC)	7.26Y	121.1	0.00	3.93	1.69	1	12	3	97	0.00	0.0	10.349	0.001	0	0	0	1
PD.9150	PL.61685	C	40QA	7.26Y	121.1	0.00	3.93	1.69	4	12	3	97	0.00	0.0	10.349	0.001	0	0	0	1
PL.61686	PD.9150	C	6 A (CWC)	7.26Y	121.1	0.00	3.93	1.69	1	12	3	97	0.00	0.0	10.393	0.044	12	3	1	1
PL.59901	PL.59827	A	#1/0 ACSR	7.29Y	121.5	0.00	3.51	2.03	1	14	4	96	0.00	0.0	9.960	0.024	14	4	1	1
PL.59825	PL.44081	C	#1/0 ACSR	7.33Y	122.2	0.00	2.83	0.00	0	0	0	100	0.00	0.0	9.401	0.086	0	0	0	0
PL.44083	PL.44081	A	#2 ACSR	7.33Y	122.2	0.00	2.83	3.24	2	23	6	97	0.00	0.0	9.321	0.006	0	0	0	1
PD.6950	PL.44083	A	40QA	7.33Y	122.2	0.00	2.83	3.24	8	23	6	97	0.00	0.0	9.321	0.006	0	0	0	1
PL.44084	PD.6950	A	#2 ACSR	7.33Y	122.2	0.01	2.84	3.24	2	23	6	97	0.00	0.0	9.545	0.223	23	6	1	1
PL.56310	PL.57633	A	#1/0 ACSR	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	9.016	0.006	0	0	0	0
PD.6929	PL.56310	A	60QA	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	9.016	0.006	0	0	0	0
PL.41973	PD.6929	A	#1/0 ACSR	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	9.119	0.103	0	0	0	0

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Balanced Voltage Drop Report
Source: Maplesville

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.44512	PL.52691	A	6 A (CWC)	7.36Y	122.7	0.01	2.31	45.04	32	320	86	97	0.03	0.0	8.857	0.006	0	0	0	41
PD.6828	PL.44512	A	30T	7.36Y	122.7	0.00	2.31	45.04	0	320	86	97	0.00	0.0	8.857	0.006	0	0	0	41
PL.44513	PD.6828	A	6 A (CWC)	7.35Y	122.5	0.15	2.46	45.04	32	320	86	97	0.36	0.1	8.930	0.073	0	0	0	41
PL.44514	PL.44513	A	6 A (CWC)	7.35Y	122.5	0.08	2.54	45.04	32	320	86	97	0.18	0.1	8.968	0.039	14	4	1	41
PL.62711	PL.44514	A	6 A (CWC)	7.33Y	122.2	0.23	2.77	43.03	31	305	82	97	0.52	0.2	9.086	0.117	6	2	1	40
PL.62710	PL.62711	A	6 A (CWC)	7.33Y	122.2	0.01	2.78	2.82	2	20	5	97	0.00	0.0	9.226	0.141	20	5	1	1
PL.62712	PL.62711	A	6 A (CWC)	7.33Y	122.1	0.12	2.89	39.32	28	279	75	97	0.25	0.1	9.151	0.066	0	0	1	38
PL.59807	PL.62712	A	6 A (CWC)	7.32Y	121.9	0.18	3.06	37.12	27	263	70	97	0.35	0.1	9.257	0.105	0	0	1	36
PL.63214	PL.59807	A	6 A (CWC)	7.31Y	121.8	0.12	3.19	37.09	26	262	70	97	0.24	0.1	9.332	0.075	14	4	1	35
PL.63213	PL.63214	A	6 A (CWC)	7.30Y	121.6	0.19	3.38	34.07	24	241	64	97	0.34	0.1	9.453	0.122	0	0	1	33
PL.43577	PL.63213	A	6 A (CWC)	7.28Y	121.4	0.22	3.60	34.04	24	240	64	97	0.40	0.2	9.597	0.144	0	0	0	32
PL.43578	PL.43577	A	6 A (CWC)	7.28Y	121.3	0.13	3.73	34.04	24	240	64	97	0.23	0.1	9.678	0.081	0	0	0	32
PL.44355	PL.43578	A	6 A (CWC)	7.25Y	120.9	0.40	4.12	32.95	24	232	62	97	0.69	0.3	9.942	0.264	2	0	1	31
PL.59869	PL.44355	A	6 A (CWC)	7.25Y	120.8	0.07	4.19	32.68	23	229	61	97	0.12	0.1	9.988	0.046	3	1	1	30
PL.59870	PL.59869	A	6 A (CWC)	7.24Y	120.7	0.14	4.33	32.20	23	226	60	97	0.23	0.1	10.081	0.093	0	0	0	29
PL.44518	PL.59870	A	6 A (CWC)	7.23Y	120.5	0.14	4.47	28.38	20	199	53	97	0.21	0.1	10.189	0.108	0	0	0	26
PL.43659	PL.44518	A	#4 ACSR	7.23Y	120.5	0.00	4.47	0.00	0	0	0	100	0.00	0.0	10.267	0.078	0	0	0	0
PL.44519	PL.44518	A	6 A (CWC)	7.23Y	120.4	0.09	4.55	28.38	20	198	53	97	0.13	0.1	10.259	0.070	8	2	1	26
PL.44520	PL.44519	A	6 A (CWC)	7.22Y	120.4	0.06	4.61	27.25	19	190	50	97	0.08	0.0	10.307	0.048	13	3	1	25
PL.44521	PL.44520	A	6 A (CWC)	7.22Y	120.3	0.13	4.74	25.41	18	177	47	97	0.18	0.1	10.422	0.115	0	0	0	24
PL.43792	PL.44521	A	#4 ACSR	7.21Y	120.2	0.01	4.75	2.75	2	19	5	97	0.00	0.0	10.519	0.097	19	5	1	1
PL.44522	PL.44521	A	6 A (CWC)	7.21Y	120.1	0.11	4.85	19.75	14	138	36	97	0.11	0.1	10.543	0.121	0	0	0	22
PL.44523	PL.44522	A	6 A (CWC)	7.21Y	120.1	0.01	4.86	3.26	2	23	6	97	0.00	0.0	10.611	0.069	0	0	0	2
PL.44524	PL.44523	A	6 A (CWC)	7.21Y	120.1	0.00	4.87	3.26	2	23	6	97	0.00	0.0	10.656	0.045	13	3	1	2
PL.44525	PL.44524	A	6 A (CWC)	7.21Y	120.1	0.00	4.87	1.40	1	10	3	96	0.00	0.0	10.706	0.050	10	3	1	1
PL.44526	PL.44525	A	6 A (CWC)	7.21Y	120.1	0.00	4.87	0.00	0	0	0	100	0.00	0.0	10.831	0.125	0	0	0	0
PL.44028	PL.44526	A	#1/0 ACSR	7.21Y	120.1	0.00	4.87	0.00	0	0	0	100	0.00	0.0	10.948	0.117	0	0	0	0
PL.44527	PL.44526	A	6 A (CWC)	7.21Y	120.1	0.00	4.87	0.00	0	0	0	100	0.00	0.0	10.954	0.124	0	0	0	0
PL.43280	PL.44522	A	6 A (CWC)	7.21Y	120.1	0.04	4.89	16.50	12	115	30	97	0.03	0.0	10.600	0.058	26	7	3	20
PL.43281	PL.43280	A	6 A (CWC)	7.20Y	120.1	0.03	4.93	12.75	9	89	23	97	0.02	0.0	10.660	0.060	3	1	3	17
PL.43289	PL.43281	A	6 A (CWC)	7.20Y	120.1	0.02	4.94	12.35	9	86	23	97	0.01	0.0	10.688	0.028	0	0	0	14

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: Maplesville

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.44177	PL.43289	A	#2 ACSR	7.20Y	120.1	0.00	4.95	2.77	2	19	5	97	0.00	0.0	10.795	0.107	19	5	1	1
PL.43386	PL.43289	A	6 A (CWC)	7.20Y	120.0	0.02	4.96	9.58	7	67	18	97	0.01	0.0	10.725	0.037	6	1	2	13
PL.43387	PL.43386	A	6 A (CWC)	7.20Y	120.0	0.03	4.99	8.77	6	61	16	97	0.01	0.0	10.794	0.069	0	0	1	11
PL.43579	PL.43387	A	6 A (CWC)	7.20Y	119.9	0.07	5.06	8.77	6	61	16	97	0.03	0.1	10.981	0.186	0	0	0	10
PL.43582	PL.43579	A	6 A (CWC)	7.20Y	119.9	0.01	5.07	1.19	1	8	2	97	0.00	0.0	11.220	0.239	0	0	0	3
PL.43583	PL.43582	A	6 A (CWC)	7.20Y	119.9	0.00	5.07	0.00	0	0	0	100	0.00	0.0	11.267	0.047	0	0	0	0
PL.43284	PL.43582	A	6 A (CWC)	7.20Y	119.9	0.00	5.07	1.19	1	8	2	97	0.00	0.0	11.285	0.065	8	2	3	3
PL.44300	PL.43579	A	6 A (CWC)	7.20Y	119.9	0.00	5.06	2.08	1	14	4	96	0.00	0.0	11.043	0.062	10	3	1	2
PL.44301	PL.44300	A	6 A (CWC)	7.20Y	119.9	0.00	5.06	0.58	0	4	1	97	0.00	0.0	11.120	0.077	4	1	1	1
PL.43580	PL.43579	A	#4 ACSR	7.19Y	119.9	0.03	5.09	5.50	4	38	10	97	0.01	0.0	11.103	0.122	0	0	0	5
PL.43581	PL.43580	A	#4 ACSR	7.19Y	119.9	0.00	5.09	2.95	2	21	5	97	0.00	0.0	11.127	0.024	21	5	2	2
PL.56313	PL.43580	A	#4 ACSR	7.19Y	119.9	0.00	5.09	2.54	2	18	5	96	0.00	0.0	11.148	0.045	7	2	1	3
PL.56314	PL.56313	A	#4 ACSR	7.19Y	119.9	0.00	5.10	1.56	1	11	3	96	0.00	0.0	11.246	0.098	8	2	1	2
PL.56315	PL.56314	A	#4 ACSR	7.19Y	119.9	0.00	5.10	0.36	0	3	1	95	0.00	0.0	11.328	0.081	3	1	1	1
PL.63191	PL.44521	A	#1/0 ACSR	7.22Y	120.3	0.00	4.74	2.90	1	20	5	97	0.00	0.0	10.425	0.004	0	0	0	1
PD.9469	PL.63191	A	10T	7.22Y	120.3	0.00	4.74	2.90	0	20	5	97	0.00	0.0	10.425	0.004	0	0	0	1
PL.63192	PD.9469	A	#1/0 ACSR	7.22Y	120.3	0.00	4.75	2.90	1	20	5	97	0.00	0.0	10.515	0.089	20	5	1	1
PL.43801	PL.59870	A	#4 ACSR	7.24Y	120.7	0.01	4.34	3.82	3	27	7	97	0.00	0.0	10.173	0.092	9	2	1	3
PL.44515	PL.43801	A	#4 ACSR	7.24Y	120.7	0.00	4.34	0.24	0	2	0	100	0.00	0.0	10.255	0.082	0	0	0	1
PL.43283	PL.44515	A	#4 ACSR	7.24Y	120.7	0.00	4.34	0.00	0	0	0	100	0.00	0.0	10.313	0.058	0	0	0	0
PL.44516	PL.44515	A	#4 ACSR	7.24Y	120.7	0.00	4.34	0.24	0	2	0	100	0.00	0.0	10.319	0.063	2	0	1	1
PL.44517	PL.44516	A	#4 ACSR	7.24Y	120.7	0.00	4.34	0.00	0	0	0	100	0.00	0.0	10.364	0.045	0	0	0	0
PL.44331	PL.43801	A	#4 ACSR	7.24Y	120.7	0.00	4.34	2.28	2	16	4	97	0.00	0.0	10.220	0.047	16	4	1	1
PL.43087	PL.43578	A	#4 ACSR	7.28Y	121.3	0.00	3.73	1.08	1	8	2	97	0.00	0.0	9.814	0.137	8	2	1	1
PL.43282	PL.43577	A	#4 ACSR	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	9.662	0.065	0	0	0	0
PL.63212	PL.63214	A	#4 ACSR	7.31Y	121.8	0.00	3.19	1.08	1	8	2	97	0.00	0.0	9.394	0.062	8	2	1	1
PL.56312	PL.62712	A	#1/0 ACSR	7.33Y	122.1	0.00	2.89	2.19	1	15	4	97	0.00	0.0	9.199	0.048	15	4	1	1
PL.44270	PL.44513	A	6 A (CWC)	7.35Y	122.5	0.00	2.46	0.00	0	0	0	100	0.00	0.0	9.018	0.088	0	0	0	0
CP.79	PL.52690	ABC	Cap (300)	7.37Y	122.8	0.00	2.22	0.00	0	0	0	100	0.00	0.0	8.801	0.088	0	0	0	0
PL.44503	PL.44502	A	#4 ACSR	7.38Y	123.0	0.00	1.96	1.63	1	12	3	97	0.00	0.0	8.637	0.006	0	0	0	1
PD.6952	PL.44503	A	60QA	7.38Y	123.0	0.00	1.96	1.63	3	12	3	97	0.00	0.0	8.637	0.006	0	0	0	1

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Balanced Voltage Drop Report
Source: Maplesville

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.44504	PD.6952	A	#4 ACSR	7.38Y	123.0	0.00	1.96	1.63	1	12	3	97	0.00	0.0	8.683	0.046	12	3	1	1
PL.44500	PL.44354	A	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.72	1	5	1	98	0.00	0.0	8.529	0.006	0	0	0	1
PD.6846	PL.44500	A	60QA	7.39Y	123.2	0.00	1.79	0.72	1	5	1	98	0.00	0.0	8.529	0.006	0	0	0	1
PL.44501	PD.6846	A	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.72	1	5	1	98	0.00	0.0	8.627	0.097	5	1	1	1
PL.44107	PL.44122	C	6 A (CWC)	7.42Y	123.7	0.00	1.30	3.58	3	26	7	97	0.00	0.0	8.223	0.006	0	0	0	3
PD.6848	PL.44107	C	60QA	7.42Y	123.7	0.00	1.30	3.58	6	26	7	97	0.00	0.0	8.223	0.006	0	0	0	3
PL.44108	PD.6848	C	6 A (CWC)	7.42Y	123.7	0.01	1.31	3.58	3	26	7	97	0.00	0.0	8.324	0.101	21	5	1	3
PL.44109	PL.44108	C	6 A (CWC)	7.42Y	123.7	0.02	1.33	0.69	0	5	1	98	0.00	0.0	8.893	0.569	0	0	0	2
PL.43597	PL.44109	C	6 A (CWC)	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	8.960	0.067	0	0	0	0
PL.44110	PL.44109	C	6 A (CWC)	7.42Y	123.7	0.01	1.34	0.69	0	5	1	98	0.00	0.0	9.243	0.350	0	0	0	2
PL.44111	PL.44110	C	6 A (CWC)	7.42Y	123.7	0.01	1.35	0.69	0	5	1	98	0.00	0.0	9.436	0.193	0	0	1	2
PL.44112	PL.44111	C	6 A (CWC)	7.42Y	123.7	0.00	1.35	0.63	0	5	1	98	0.00	0.0	9.506	0.070	5	1	1	1
PL.42963	PL.44122	A	6 A (CWC)	7.42Y	123.7	0.00	1.30	0.00	0	0	0	100	0.00	0.0	8.223	0.006	0	0	0	0
PD.6847	PL.42963	A	60QA	7.42Y	123.7	0.00	1.30	0.00	0	0	0	100	0.00	0.0	8.223	0.006	0	0	0	0
PL.42964	PD.6847	A	6 A (CWC)	7.42Y	123.7	0.00	1.30	0.00	0	0	0	100	0.00	0.0	8.270	0.047	0	0	0	0
PL.43993	PL.43991	A	6 A (CWC)	7.48Y	124.7	0.00	0.27	0.54	0	4	1	97	0.00	0.0	7.525	0.006	0	0	0	1
PD.6953	PL.43993	A	60QA	7.48Y	124.7	0.00	0.27	0.54	1	4	1	97	0.00	0.0	7.525	0.006	0	0	0	1
PL.43994	PD.6953	A	6 A (CWC)	7.48Y	124.7	0.00	0.27	0.54	0	4	1	97	0.00	0.0	7.577	0.052	4	1	1	1
PL.43429	PL.43428	A	6 A (CWC)	7.49Y	124.9	0.00	0.11	2.51	2	18	5	96	0.00	0.0	7.389	0.006	0	0	0	3
PD.6850	PL.43429	A	60QA	7.49Y	124.9	0.00	0.11	2.51	4	18	5	96	0.00	0.0	7.389	0.006	0	0	0	3
PL.43995	PD.6850	A	6 A (CWC)	7.49Y	124.9	0.03	0.14	2.51	2	18	5	96	0.00	0.0	7.658	0.270	5	1	1	3
PL.43392	PL.43995	A	6 A (CWC)	7.49Y	124.9	0.00	0.14	1.81	1	13	3	97	0.00	0.0	7.744	0.086	13	3	1	2
PL.43393	PL.43392	A	6 A (CWC)	7.49Y	124.9	0.00	0.14	0.00	0	0	0	100	0.00	0.0	8.038	0.294	0	0	0	1
PL.43394	PL.43393	A	6 A (CWC)	7.49Y	124.9	0.00	0.14	0.00	0	0	0	100	0.00	0.0	8.072	0.034	0	0	1	1
PL.44413	PL.44412	A	6 A (CWC)	7.15Y	119.1	0.00	5.91	2.57	2	18	5	96	0.00	0.0	6.465	0.006	0	0	0	1
PD.6881	PL.44413	A	60QA	7.15Y	119.1	0.00	5.91	2.57	4	18	5	96	0.00	0.0	6.465	0.006	0	0	0	1
PL.44414	PD.6881	A	6 A (CWC)	7.15Y	119.1	0.00	5.91	2.57	2	18	5	96	0.00	0.0	6.484	0.018	18	5	1	1
PL.44199	PL.44403	A	#2 ACSR	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	5.605	0.034	0	0	0	0
PL.43552	PL.44396	B	#1/0 ACSR	7.23Y	120.6	0.00	4.43	0.46	0	3	1	95	0.00	0.0	5.529	0.018	3	1	2	2
PL.44399	PL.44396	A	#2 ACSR	7.23Y	120.6	0.00	4.43	1.06	1	7	2	96	0.00	0.0	5.517	0.006	0	0	0	1
PD.6854	PL.44399	A	60QA	7.23Y	120.6	0.00	4.43	1.06	2	7	2	96	0.00	0.0	5.517	0.006	0	0	0	1

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Balanced Voltage Drop Report
Source: Maplesville

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.44400	PD.6854	A	#2 ACSR	7.23Y	120.6	0.00	4.43	1.06	1	7	2	96	0.00	0.0	5.666	0.149	0	0	0	1
PL.44401	PL.44400	A	#2 ACSR	7.23Y	120.6	0.00	4.43	1.06	1	7	2	96	0.00	0.0	5.672	0.006	0	0	0	1
PD.6853	PL.44401	A	50QA	7.23Y	120.6	0.00	4.43	1.06	2	7	2	96	0.00	0.0	5.672	0.006	0	0	0	1
PL.44402	PD.6853	A	1/0 AL URD	7.23Y	120.6	0.00	4.43	1.06	1	7	2	96	0.00	0.0	5.705	0.033	7	2	1	1
PL.44397	PL.44395	A	#1/0 ACSR	7.26Y	121.0	0.00	3.95	0.00	0	0	0	100	0.00	0.0	5.218	0.006	0	0	0	0
PD.6949	PL.44397	A	20QA	7.26Y	121.0	0.00	3.95	0.00	0	0	0	100	0.00	0.0	5.218	0.006	0	0	0	0
PL.44398	PD.6949	A	#1/0 ACSR	7.26Y	121.0	0.00	3.95	0.00	0	0	0	100	0.00	0.0	5.246	0.028	0	0	0	0
PL.72541	PL.72538	A	#1/0 ACSR	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	5.043	0.003	0	0	0	0
PD.10799	PL.72541	A	25T	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	5.043	0.003	0	0	0	0
PL.72542	PD.10799	A	#1/0 ACSR	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	5.115	0.073	0	0	0	0
PL.44198	PL.72538	A	#4 ACSR	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	5.106	0.067	0	0	0	0
PL.41950	PL.42947	A	#4 ACSR	7.34Y	122.3	0.00	2.66	0.80	1	6	1	99	0.00	0.0	4.418	0.006	0	0	0	1
PD.6927	PL.41950	A	60QA	7.34Y	122.3	0.00	2.66	0.80	1	6	1	99	0.00	0.0	4.418	0.006	0	0	0	1
PL.41951	PD.6927	A	#4 ACSR	7.34Y	122.3	0.00	2.67	0.80	1	6	1	99	0.00	0.0	4.519	0.101	6	1	1	1
PL.44381	PL.59608	C	#2 ACSR	7.40Y	123.4	0.00	1.62	1.47	1	11	3	96	0.00	0.0	3.806	0.006	0	0	0	2
PD.6910	PL.44381	C	50QA	7.40Y	123.4	0.00	1.62	1.47	3	11	3	96	0.00	0.0	3.806	0.006	0	0	0	2
PL.44382	PD.6910	C	#2 ACSR	7.40Y	123.4	0.00	1.62	1.47	1	11	3	96	0.00	0.0	3.897	0.091	11	3	2	2
PL.44379	PL.44378	C	#2 ACSR	7.41Y	123.5	0.00	1.46	2.64	2	19	5	97	0.00	0.0	3.714	0.006	0	0	0	1
PD.6887	PL.44379	C	60QA	7.41Y	123.5	0.00	1.46	2.64	4	19	5	97	0.00	0.0	3.714	0.006	0	0	0	1
PL.44380	PD.6887	C	#2 ACSR	7.41Y	123.5	0.00	1.46	2.64	2	19	5	97	0.00	0.0	3.749	0.035	19	5	1	1
PL.43084	PL.43781	A	6 A (CWC)	7.46Y	124.3	0.00	0.69	0.00	0	0	0	100	0.00	0.0	3.282	0.006	0	0	0	0
PD.6916	PL.43084	A	60QA	7.46Y	124.3	0.00	0.69	0.00	0	0	0	100	0.00	0.0	3.282	0.006	0	0	0	0
PL.43085	PD.6916	A	6 A (CWC)	7.46Y	124.3	0.00	0.69	0.00	0	0	0	100	0.00	0.0	3.348	0.066	0	0	0	0
PL.43798	REG66	C	6 A (CWC)	7.51Y	125.2	0.00	-0.21	0.00	0	0	0	100	0.00	0.0	2.827	0.051	0	0	0	0
PL.44367	PL.44365	A	6 A (CWC)	7.19Y	119.8	0.00	5.22	2.98	2	21	5	97	0.00	0.0	2.343	0.006	0	0	0	2
PD.6888	PL.44367	A	60QA	7.19Y	119.8	0.00	5.22	2.98	5	21	5	97	0.00	0.0	2.343	0.006	0	0	0	2
PL.44368	PD.6888	A	6 A (CWC)	7.19Y	119.8	0.01	5.23	2.98	2	21	5	97	0.00	0.0	2.425	0.082	12	3	1	2
PL.44369	PL.44368	A	6 A (CWC)	7.19Y	119.8	0.00	5.23	1.29	1	9	2	98	0.00	0.0	2.469	0.044	0	0	0	1
PL.44175	PL.44369	A	6 A (CWC)	7.19Y	119.8	0.00	5.23	0.00	0	0	0	100	0.00	0.0	2.528	0.058	0	0	0	0
PL.44370	PL.44369	A	6 A (CWC)	7.19Y	119.8	0.01	5.24	1.29	1	9	2	98	0.00	0.0	2.763	0.293	9	2	1	1
PL.44366	PL.59461	B	#2 ACSR	7.20Y	119.9	0.00	5.05	1.64	1	11	3	96	0.00	0.0	2.256	0.006	0	0	0	1

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

Balanced Voltage Drop Report
Source: Maplesville

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.6879	PL.44366	B	50QA	7.20Y	119.9	0.00	5.05	1.64	3	11	3	96	0.00	0.0	2.256	0.006	0	0	0	1
PL.52589	PD.6879	B	#2 ACSR	7.20Y	119.9	0.00	5.06	1.64	1	11	3	96	0.00	0.0	2.276	0.020	0	0	0	1
PL.52590	PL.52589	B	#2 ACSR	7.20Y	119.9	0.00	5.06	1.64	1	11	3	96	0.00	0.0	2.347	0.071	11	3	1	1
PL.59465	PL.59463	A	#1/0 ACSR	7.23Y	120.5	0.00	4.48	1.48	1	10	3	96	0.00	0.0	2.017	0.066	0	0	0	1
PL.59467	PL.59465	A	#1/0 ACSR	7.23Y	120.5	0.00	4.48	1.48	1	10	3	96	0.00	0.0	2.043	0.026	10	3	1	1
PL.59466	PL.59465	A	#1/0 ACSR	7.23Y	120.5	0.00	4.48	0.00	0	0	0	100	0.00	0.0	2.059	0.042	0	0	0	0
PL.44304	PL.44302	A	#4 ACSR	7.28Y	121.4	0.00	3.62	2.69	2	19	5	97	0.00	0.0	1.521	0.006	0	0	0	1
PD.6968	PL.44304	A	60QA	7.28Y	121.4	0.00	3.62	2.69	4	19	5	97	0.00	0.0	1.521	0.006	0	0	0	1
PL.43304	PD.6968	A	#4 ACSR	7.28Y	121.4	0.00	3.62	2.69	2	19	5	97	0.00	0.0	1.589	0.068	19	5	1	1
PL.43302	PL.59790	C	#1/0 ACSR	7.30Y	121.7	0.00	3.25	5.79	3	41	11	97	0.00	0.0	1.343	0.006	0	0	0	4
PD.6724	PL.43302	C	60QA	7.30Y	121.7	0.00	3.25	5.79	10	41	11	97	0.00	0.0	1.343	0.006	0	0	0	4
PL.43303	PD.6724	C	#1/0 ACSR	7.30Y	121.7	0.01	3.26	5.79	3	41	11	97	0.00	0.0	1.418	0.075	0	0	0	4
PL.44123	PL.43303	C	#2 ACSR	7.30Y	121.7	0.00	3.27	2.70	2	19	5	97	0.00	0.0	1.536	0.118	19	5	1	1
PL.62901	PL.43303	C	#1/0 ACSR	7.30Y	121.7	0.00	3.27	3.10	1	22	6	96	0.00	0.0	1.473	0.055	0	0	0	3
PL.62902	PL.62901	C	#1/0 ACSR	7.30Y	121.7	0.01	3.27	3.10	1	22	6	96	0.00	0.0	1.544	0.072	0	0	0	3
PL.62903	PL.62902	C	#1/0 ACSR	7.30Y	121.7	0.00	3.27	1.81	1	13	3	97	0.00	0.0	1.585	0.041	13	3	1	1
PL.62904	PL.62902	C	#1/0 ACSR	7.30Y	121.7	0.00	3.27	1.28	1	9	2	98	0.00	0.0	1.548	0.004	0	0	0	2
PD.8383	PL.62904	C	20QA	7.30Y	121.7	0.00	3.27	1.28	6	9	2	98	0.00	0.0	1.548	0.004	0	0	0	2
PL.62900	PD.8383	C	#1/0 ACSR	7.30Y	121.7	0.00	3.27	1.28	1	9	2	98	0.00	0.0	1.587	0.039	9	2	2	2
PL.59791	PL.59789	B	#3/0 ACSR	7.32Y	121.9	0.00	3.07	1.65	1	12	3	97	0.00	0.0	1.254	0.003	0	0	0	2
PD.8828	PL.59791	B	15T	7.32Y	121.9	0.00	3.07	1.65	0	12	3	97	0.00	0.0	1.254	0.003	0	0	0	2
PL.59889	PD.8828	B	#3/0 ACSR	7.32Y	121.9	0.00	3.07	1.65	1	12	3	97	0.00	0.0	1.289	0.035	12	3	2	2
PL.43982	PL.43660	ABC	#1/0 ACSR	7.32Y	122.0	0.05	3.04	24.26	11	514	139	97	0.18	0.0	1.327	0.114	0	0	0	75
PL.44335	PL.43982	ABC	#1/0 ACSR	7.32Y	122.0	0.00	3.05	24.26	11	514	139	97	0.01	0.0	1.333	0.006	0	0	0	75
PD.6829	PL.44335	ABC	70L	7.32Y	122.0	0.00	3.05	24.26	35	514	139	97	0.00	0.0	1.333	0.006	0	0	0	75
PL.44341	PD.6829	ABC	#1/0 ACSR	7.31Y	121.9	0.10	3.14	24.26	11	514	139	97	0.35	0.1	1.556	0.223	0	0	0	75
PL.44351	PL.44341	C	#4 ACSR	7.31Y	121.9	0.00	3.14	0.00	0	0	0	100	0.00	0.0	1.562	0.006	0	0	0	0
PD.6889	PL.44351	C	40QA	7.31Y	121.9	0.00	3.14	0.00	0	0	0	100	0.00	0.0	1.562	0.006	0	0	0	0
PL.44352	PD.6889	C	#4 ACSR	7.31Y	121.9	0.00	3.14	0.00	0	0	0	100	0.00	0.0	1.675	0.112	0	0	0	0
PL.44353	PL.44341	ABC	#1/0 ACSR	7.31Y	121.8	0.02	3.17	24.26	11	514	139	97	0.08	0.0	1.608	0.051	0	0	0	75
PL.43666	PL.44353	ABC	#1/0 ACSR	7.30Y	121.7	0.12	3.29	24.26	11	514	139	97	0.43	0.1	1.883	0.275	0	0	0	75

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Balanced Voltage Drop Report
Source: Maplesville

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.43671	PL.43666	ABC	#1/0 ACSR	7.29Y	121.5	0.23	3.52	23.96	10	507	137	97	0.83	0.2	2.422	0.540	0	0	0	74
PL.51874	PL.43671	ABC	#1/0 ACSR	7.27Y	121.2	0.24	3.76	23.96	10	506	136	97	0.84	0.2	2.971	0.549	0	0	0	74
PL.51876	PL.51874	ABC	#1/0 ACSR	7.27Y	121.2	0.01	3.77	23.96	10	505	135	97	0.05	0.0	3.005	0.034	0	0	0	74
PL.51877	PL.51876	C	#1/0 ACSR	7.27Y	121.2	0.00	3.77	16.31	7	115	30	97	0.00	0.0	3.008	0.003	0	0	0	12
PD.7941	PL.51877	C	30QA	7.27Y	121.2	0.00	3.77	16.31	54	115	30	97	0.00	0.0	3.008	0.003	0	0	0	12
PL.51878	PD.7941	C	#1/0 ACSR	7.27Y	121.2	0.00	3.78	16.31	7	115	30	97	0.00	0.0	3.019	0.011	0	0	0	12
PL.51879	PL.51878	C	6 A (CWC)	7.27Y	121.1	0.08	3.86	16.31	12	115	30	97	0.07	0.1	3.131	0.112	0	0	0	12
PL.51872	PL.51879	C	#4 ACSR	7.27Y	121.1	0.00	3.86	1.91	1	13	4	96	0.00	0.0	3.235	0.104	13	4	1	1
PL.51873	PL.51879	C	6 A (CWC)	7.26Y	121.1	0.07	3.93	14.40	10	101	27	97	0.05	0.1	3.252	0.121	18	5	1	11
PL.43511	PL.51873	C	6 A (CWC)	7.26Y	121.0	0.09	4.02	11.80	8	83	22	97	0.06	0.1	3.424	0.172	0	0	0	10
PL.43512	PL.43511	C	6 A (CWC)	7.26Y	121.0	0.02	4.05	11.80	8	83	22	97	0.01	0.0	3.468	0.045	15	4	1	10
PL.64708	PL.43512	C	6 A (CWC)	7.26Y	120.9	0.02	4.07	9.64	7	68	18	97	0.01	0.0	3.521	0.053	0	0	0	9
PL.64709	PL.64708	C	6 A (CWC)	7.26Y	120.9	0.01	4.08	9.27	7	65	17	97	0.01	0.0	3.547	0.026	5	1	1	8
PL.43807	PL.64709	C	6 A (CWC)	7.25Y	120.8	0.08	4.16	8.62	6	60	16	97	0.04	0.1	3.757	0.210	0	0	0	7
PL.44356	PL.43807	C	6 A (CWC)	7.25Y	120.8	0.06	4.22	7.10	5	50	13	97	0.02	0.0	3.941	0.184	0	0	0	6
PL.59890	PL.44356	C	#2 ACSR	7.25Y	120.8	0.01	4.23	6.52	4	46	12	97	0.00	0.0	3.993	0.052	16	4	1	5
PL.59891	PL.59890	C	#2 ACSR	7.25Y	120.8	0.01	4.24	4.26	2	30	8	97	0.00	0.0	4.058	0.065	0	0	0	4
PL.57825	PL.59891	C	#2 ACSR	7.25Y	120.8	0.00	4.24	0.68	0	5	1	98	0.00	0.0	4.143	0.085	0	0	0	1
PL.57826	PL.57825	C	#2 ACSR	7.25Y	120.8	0.00	4.24	0.68	0	5	1	98	0.00	0.0	4.432	0.289	5	1	1	1
PL.58005	PL.59891	C	#1/0 ACSR	7.25Y	120.8	0.00	4.24	3.58	2	25	7	96	0.00	0.0	4.062	0.004	0	0	0	3
PD.8397	PL.58005	C	20QA	7.25Y	120.8	0.00	4.24	3.58	18	25	7	96	0.00	0.0	4.062	0.004	0	0	0	3
PL.58006	PD.8397	C	#1/0 ACSR	7.25Y	120.8	0.00	4.24	3.58	2	25	7	96	0.00	0.0	4.099	0.038	25	7	3	3
PL.44357	PL.44356	C	6 A (CWC)	7.25Y	120.8	0.00	4.22	0.58	0	4	1	97	0.00	0.0	4.008	0.066	4	1	1	1
PL.44311	PL.43807	C	6 A (CWC)	7.25Y	120.8	0.01	4.17	1.52	1	11	3	96	0.00	0.0	3.866	0.108	0	0	0	1
PL.44312	PL.44311	C	6 A (CWC)	7.25Y	120.8	0.00	4.17	1.52	1	11	3	96	0.00	0.0	3.969	0.103	11	3	1	1
PL.64710	PL.64708	C	#1/0 ACSR	7.26Y	120.9	0.00	4.07	0.37	0	3	1	95	0.00	0.0	3.578	0.057	3	1	1	1
PL.51953	PL.51876	ABC	#1/0 ACSR	7.27Y	121.2	0.03	3.80	18.52	8	390	105	97	0.08	0.0	3.094	0.089	0	0	0	62
PL.51954	PL.51953	ABC	#1/0 ACSR	7.27Y	121.2	0.02	3.82	18.52	8	390	105	97	0.05	0.0	3.153	0.059	0	0	0	62
PL.51955	PL.51954	ABC	#1/0 ACSR	7.27Y	121.1	0.05	3.87	14.06	6	296	80	97	0.11	0.0	3.364	0.211	0	0	0	44
PL.51952	PL.51955	ABC	#1/0 ACSR	7.26Y	121.1	0.05	3.92	14.06	6	296	80	97	0.09	0.0	3.543	0.179	0	0	0	44
PL.51882	PL.51952	ABC	#1/0 ACSR	7.26Y	121.1	0.02	3.94	14.06	6	296	80	97	0.04	0.0	3.618	0.076	8	2	2	44

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Balanced Voltage Drop Report
Source: Maplesville

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.43847	PL.51882	ABC	#1/0 ACSR	7.26Y	121.1	0.01	3.95	13.68	6	288	77	97	0.02	0.0	3.659	0.040	0	0	0	42
PL.43300	PL.43847	B	#2 ACSR	7.26Y	121.1	0.00	3.95	1.74	1	12	3	97	0.00	0.0	3.664	0.006	0	0	0	3
PD.6917	PL.43300	B	40QA	7.26Y	121.1	0.00	3.95	1.74	4	12	3	97	0.00	0.0	3.664	0.006	0	0	0	3
PL.43301	PD.6917	B	#2 ACSR	7.26Y	121.1	0.00	3.95	1.74	1	12	3	97	0.00	0.0	3.756	0.092	12	3	3	3
PL.51884	PL.43847	ABC	#1/0 ACSR	7.26Y	121.0	0.04	3.99	13.10	6	276	74	97	0.08	0.0	3.831	0.172	0	0	0	39
PL.51885	PL.51884	C	6 A (CWC)	7.26Y	121.0	0.00	3.99	39.30	28	276	74	97	0.01	0.0	3.834	0.003	0	0	0	39
PD.7943	PL.51885	C	30T	7.26Y	121.0	0.00	3.99	39.30	0	276	74	97	0.00	0.0	3.834	0.003	0	0	0	39
PL.59322	PD.7943	C	6 A (CWC)	7.24Y	120.7	0.28	4.27	39.30	28	276	74	97	0.59	0.2	3.990	0.157	0	0	0	39
PL.59320	PL.59322	C	6 A (CWC)	7.22Y	120.4	0.31	4.59	37.80	27	264	71	97	0.63	0.2	4.171	0.181	0	0	0	38
PL.43802	PL.59320	C	#2 ACSR	7.22Y	120.4	0.01	4.60	2.66	2	19	5	97	0.00	0.0	4.336	0.165	1	0	1	3
PL.44173	PL.43802	C	#1/0 ACSR	7.22Y	120.4	0.00	4.60	0.45	0	3	1	95	0.00	0.0	4.430	0.094	3	1	1	1
PL.43803	PL.43802	C	#2 ACSR	7.22Y	120.4	0.01	4.61	2.04	1	14	4	96	0.00	0.0	4.803	0.466	14	4	1	1
PL.43584	PL.59320	C	6 A (CWC)	7.20Y	120.1	0.35	4.93	35.14	25	245	66	97	0.65	0.3	4.388	0.217	0	0	0	35
PL.43585	PL.43584	C	6 A (CWC)	7.20Y	120.0	0.02	4.96	2.94	2	20	5	97	0.00	0.0	4.554	0.166	0	0	1	4
PL.43586	PL.43585	C	6 A (CWC)	7.20Y	120.0	0.01	4.96	2.93	2	20	5	97	0.00	0.0	4.627	0.073	2	0	1	3
PL.41971	PL.43586	C	6 A (CWC)	7.20Y	120.0	0.01	4.98	2.68	2	19	5	97	0.00	0.0	4.742	0.115	10	3	1	2
PL.41972	PL.41971	C	6 A (CWC)	7.20Y	120.0	0.00	4.98	1.27	1	9	2	98	0.00	0.0	4.893	0.151	9	2	1	1
PL.63903	PL.43584	C	6 A (CWC)	7.20Y	120.0	0.06	4.99	32.20	23	224	60	97	0.10	0.0	4.429	0.041	11	3	1	31
PL.63897	PL.63903	C	6 A (CWC)	7.18Y	119.6	0.41	5.40	30.67	22	213	57	97	0.67	0.3	4.723	0.294	0	0	0	30
PL.63898	PL.63897	C	#4 ACSR	7.17Y	119.5	0.12	5.52	29.31	23	203	54	97	0.19	0.1	4.815	0.093	0	0	0	29
PL.63901	PL.63898	C	#4 ACSR	7.16Y	119.3	0.22	5.75	26.02	20	180	48	97	0.31	0.2	5.007	0.192	0	0	0	28
PL.44024	PL.63901	C	6 A (CWC)	7.16Y	119.3	0.00	5.75	0.00	0	0	0	100	0.00	0.0	5.013	0.006	0	0	0	0
PL.41975	PL.63901	C	6 A (CWC)	7.15Y	119.2	0.01	5.75	26.02	19	180	48	97	0.01	0.0	5.013	0.006	0	0	0	28
PD.6936	PL.41975	C	40QA	7.15Y	119.2	0.00	5.75	26.02	65	180	48	97	0.00	0.0	5.013	0.006	0	0	0	28
PL.41976	PD.6936	C	6 A (CWC)	7.14Y	119.0	0.21	5.96	26.02	19	180	48	97	0.29	0.2	5.193	0.181	4	1	1	28
PL.44026	PL.41976	C	6 A (CWC)	7.13Y	118.8	0.23	6.19	25.40	18	175	46	97	0.31	0.2	5.391	0.198	0	0	0	27
PL.41977	PL.44026	C	6 A (CWC)	7.12Y	118.6	0.16	6.35	22.79	16	157	42	97	0.19	0.1	5.542	0.151	0	0	1	26
PL.41978	PL.41977	C	6 A (CWC)	7.11Y	118.6	0.08	6.43	22.79	16	157	41	97	0.09	0.1	5.617	0.074	0	0	0	25
PL.43567	PL.41978	C	6 A (CWC)	7.11Y	118.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	5.772	0.155	0	0	0	0
PL.43431	PL.41978	C	6 A (CWC)	7.11Y	118.6	0.00	6.43	1.36	1	9	2	98	0.00	0.0	5.666	0.049	9	2	3	3
PL.44537	PL.41978	C	6 A (CWC)	7.11Y	118.5	0.06	6.48	21.42	15	147	39	97	0.06	0.0	5.674	0.058	3	1	1	22

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: Maplesville

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.44538	PL.44537	C	6 A (CWC)	7.11Y	118.5	0.04	6.53	20.95	15	144	38	97	0.05	0.0	5.718	0.044	0	0	0	21
PL.44539	PL.44538	C	6 A (CWC)	7.10Y	118.4	0.08	6.61	11.38	8	78	21	97	0.05	0.1	5.876	0.158	0	0	0	9
PL.44542	PL.44539	C	6 A (CWC)	7.10Y	118.3	0.05	6.66	6.28	4	43	11	97	0.02	0.0	6.043	0.167	0	0	0	5
PL.44543	PL.44542	C	6 A (CWC)	7.10Y	118.3	0.02	6.68	6.28	4	43	11	97	0.01	0.0	6.137	0.095	12	3	1	5
PL.44544	PL.44543	C	6 A (CWC)	7.10Y	118.3	0.02	6.70	4.53	3	31	8	97	0.00	0.0	6.280	0.143	14	4	1	4
PL.44545	PL.44544	C	6 A (CWC)	7.10Y	118.3	0.01	6.71	2.46	2	17	4	97	0.00	0.0	6.338	0.059	8	2	1	2
PL.44310	PL.44545	C	6 A (CWC)	7.10Y	118.3	0.00	6.71	1.30	1	9	2	98	0.00	0.0	6.408	0.069	9	2	1	1
PL.44176	PL.44544	C	#4 ACSR	7.10Y	118.3	0.00	6.70	0.01	0	0	0	100	0.00	0.0	6.366	0.086	0	0	1	1
PL.44540	PL.44539	C	#4 ACSR	7.10Y	118.4	0.02	6.63	5.10	4	35	9	97	0.01	0.0	5.988	0.112	4	1	1	4
PL.52198	PL.44540	C	#4 ACSR	7.10Y	118.4	0.00	6.63	4.46	3	31	8	97	0.00	0.0	6.004	0.016	15	4	1	3
PL.52199	PL.52198	C	#4 ACSR	7.10Y	118.4	0.00	6.63	2.34	2	16	4	97	0.00	0.0	6.004	0.001	0	0	0	2
PL.52197	PL.52199	C	#2 ACSR	7.10Y	118.4	0.00	6.64	2.34	1	16	4	97	0.00	0.0	6.048	0.044	1	0	1	2
PL.44541	PL.52197	C	#2 ACSR	7.10Y	118.4	0.00	6.64	2.17	1	15	4	97	0.00	0.0	6.090	0.042	15	4	1	1
PL.44546	PL.44538	C	6 A (CWC)	7.10Y	118.4	0.08	6.60	9.57	7	66	17	97	0.04	0.1	5.896	0.179	0	0	0	12
PL.44547	PL.44546	C	6 A (CWC)	7.10Y	118.4	0.01	6.62	2.48	2	17	4	97	0.00	0.0	6.092	0.195	13	3	2	4
PL.44548	PL.44547	C	6 A (CWC)	7.10Y	118.4	0.00	6.62	0.58	0	4	1	97	0.00	0.0	6.251	0.159	4	1	2	2
PL.44549	PL.44546	C	6 A (CWC)	7.10Y	118.3	0.06	6.66	7.09	5	49	13	97	0.02	0.0	6.102	0.206	14	4	3	8
PL.44550	PL.44549	C	6 A (CWC)	7.10Y	118.3	0.01	6.67	5.10	4	35	9	97	0.00	0.0	6.158	0.055	8	2	1	5
PL.44551	PL.44550	C	6 A (CWC)	7.10Y	118.3	0.01	6.68	3.94	3	27	7	97	0.00	0.0	6.232	0.075	2	0	1	4
PL.52192	PL.44551	C	6 A (CWC)	7.10Y	118.3	0.01	6.69	3.70	3	25	7	96	0.00	0.0	6.298	0.065	11	3	1	3
PL.52194	PL.52192	C	6 A (CWC)	7.10Y	118.3	0.01	6.71	2.16	2	15	4	97	0.00	0.0	6.438	0.140	0	0	0	2
PL.52195	PL.52194	C	6 A (CWC)	7.10Y	118.3	0.01	6.72	1.64	1	11	3	96	0.00	0.0	6.626	0.188	0	0	0	1
PL.52193	PL.52195	C	6 A (CWC)	7.10Y	118.3	0.00	6.73	1.64	1	11	3	96	0.00	0.0	6.681	0.055	0	0	0	1
PL.44552	PL.52193	C	6 A (CWC)	7.10Y	118.3	0.00	6.73	0.00	0	0	0	100	0.00	0.0	6.844	0.163	0	0	0	0
PL.44553	PL.44552	C	6 A (CWC)	7.10Y	118.3	0.00	6.73	0.00	0	0	0	100	0.00	0.0	6.951	0.107	0	0	0	0
PL.44554	PL.44553	C	6 A (CWC)	7.10Y	118.3	0.00	6.73	0.00	0	0	0	100	0.00	0.0	7.322	0.371	0	0	0	0
PL.44339	PL.44554	C	6 A (CWC)	7.10Y	118.3	0.00	6.73	0.00	0	0	0	100	0.00	0.0	7.475	0.153	0	0	0	0
PL.42956	PL.52193	C	6 A (CWC)	7.10Y	118.3	0.00	6.73	1.64	1	11	3	96	0.00	0.0	6.744	0.063	11	3	1	1
PL.52196	PL.52194	C	#2 ACSR	7.10Y	118.3	0.00	6.71	0.53	0	4	1	97	0.00	0.0	6.526	0.088	4	1	1	1
PL.43430	PL.44026	C	#2 ACSR	7.13Y	118.8	0.01	6.20	2.61	1	18	5	96	0.00	0.0	5.472	0.081	0	0	0	1
PL.43086	PL.43430	C	1/0 AL URD	7.13Y	118.8	0.00	6.20	2.61	2	18	5	96	0.00	0.0	5.539	0.066	18	5	1	1

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Balanced Voltage Drop Report
Source: Maplesville

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.63900	PL.63898	C	#4 ACSR	7.17Y	119.5	0.01	5.53	3.28	3	23	6	97	0.00	0.0	4.924	0.108	23	6	1	1
PL.63899	PL.63897	C	6 A (CWC)	7.18Y	119.6	0.01	5.41	1.36	1	9	2	98	0.00	0.0	4.813	0.090	0	0	0	1
PD.9496	PL.63899	C	10T	7.18Y	119.6	0.00	5.41	1.36	0	9	2	98	0.00	0.0	4.813	0.090	0	0	0	1
PL.63902	PD.9496	C	6 A (CWC)	7.18Y	119.6	0.01	5.41	1.36	1	9	2	98	0.00	0.0	5.019	0.206	9	2	1	1
PL.59321	PL.59322	C	#4 ACSR	7.24Y	120.7	0.00	4.27	1.50	1	11	3	96	0.00	0.0	3.996	0.006	0	0	0	1
PD.6966	PL.59321	C	40QA	7.24Y	120.7	0.00	4.27	1.50	4	11	3	96	0.00	0.0	3.996	0.006	0	0	0	1
PL.44336	PD.6966	C	#4 ACSR	7.24Y	120.7	0.01	4.28	1.50	1	11	3	96	0.00	0.0	4.155	0.160	11	3	1	1
PL.51883	PL.51884	A	6 A (CWC)	7.26Y	121.0	0.00	3.99	0.00	0	0	0	100	0.00	0.0	3.837	0.006	0	0	0	0
PL.51956	PL.51954	A	#1/0 ACSR	7.27Y	121.2	0.00	3.82	13.40	6	94	25	97	0.00	0.0	3.155	0.003	0	0	0	18
PD.7942	PL.51956	A	30QA	7.27Y	121.2	0.00	3.82	13.40	45	94	25	97	0.00	0.0	3.155	0.003	0	0	0	18
PL.51960	PD.7942	A	#1/0 ACSR	7.27Y	121.1	0.03	3.85	13.40	6	94	25	97	0.02	0.0	3.265	0.110	0	0	0	18
PL.51738	PL.51960	A	6 A (CWC)	7.27Y	121.1	0.00	3.86	1.41	1	10	3	96	0.00	0.0	3.396	0.131	10	3	2	2
PL.51739	PL.51960	A	6 A (CWC)	7.26Y	121.0	0.12	3.97	10.92	8	77	20	97	0.07	0.1	3.501	0.236	0	0	0	15
PL.51736	PL.51739	A	6 A (CWC)	7.26Y	121.0	0.00	3.97	0.00	0	0	0	100	0.00	0.0	3.645	0.145	0	0	0	0
PL.51737	PL.51739	A	6 A (CWC)	7.26Y	121.0	0.05	4.02	10.92	8	77	20	97	0.03	0.0	3.607	0.107	0	0	0	15
PL.51881	PL.51737	A	6 A (CWC)	7.26Y	120.9	0.05	4.07	10.92	8	77	20	97	0.03	0.0	3.710	0.103	3	1	1	15
PL.44294	PL.51881	A	6 A (CWC)	7.25Y	120.9	0.05	4.13	10.53	8	74	19	97	0.03	0.0	3.819	0.108	0	0	0	14
PL.44295	PL.44294	A	#4 ACSR	7.25Y	120.9	0.00	4.13	2.75	2	19	5	97	0.00	0.0	3.855	0.036	4	1	1	5
PL.44296	PL.44295	A	#4 ACSR	7.25Y	120.9	0.00	4.13	2.19	2	15	4	97	0.00	0.0	3.892	0.038	3	1	1	4
PL.44101	PL.44296	A	#4 ACSR	7.25Y	120.9	0.00	4.14	1.83	1	13	3	97	0.00	0.0	3.945	0.052	0	0	0	3
PL.44102	PL.44101	A	#4 ACSR	7.25Y	120.8	0.01	4.15	1.39	1	10	3	96	0.00	0.0	4.156	0.211	0	0	0	1
PL.44103	PL.44102	A	#4 ACSR	7.25Y	120.8	0.00	4.15	1.39	1	10	3	96	0.00	0.0	4.189	0.033	10	3	1	1
PL.42978	PL.44102	A	#1/0 ACSR	7.25Y	120.8	0.00	4.15	0.00	0	0	0	100	0.00	0.0	4.277	0.121	0	0	0	0
PL.43017	PL.44101	A	#1/0 ACSR	7.25Y	120.9	0.00	4.14	0.43	0	3	1	95	0.00	0.0	3.980	0.036	3	1	2	2
PL.44104	PL.44294	A	#4 ACSR	7.25Y	120.9	0.01	4.14	7.78	6	55	14	97	0.00	0.0	3.850	0.031	17	5	1	9
PL.44105	PL.44104	A	#4 ACSR	7.25Y	120.9	0.01	4.15	5.34	4	37	10	97	0.00	0.0	3.908	0.058	1	0	1	8
PL.44106	PL.44105	A	#4 ACSR	7.25Y	120.8	0.00	4.15	5.17	4	36	10	96	0.00	0.0	3.922	0.015	0	0	0	7
PL.63160	PL.44106	A	#2 ACSR	7.25Y	120.8	0.00	4.15	0.95	1	7	2	96	0.00	0.0	3.976	0.054	7	2	1	2
PL.63161	PL.63160	A	#2 ACSR	7.25Y	120.8	0.00	4.15	0.01	0	0	0	100	0.00	0.0	4.019	0.043	0	0	1	1
PL.43672	PL.44106	A	#4 ACSR	7.25Y	120.8	0.01	4.17	4.22	3	30	8	97	0.00	0.0	4.006	0.084	3	1	1	5
PL.43673	PL.43672	A	#4 ACSR	7.25Y	120.8	0.02	4.19	3.79	3	27	7	97	0.00	0.0	4.132	0.126	0	0	0	4

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Balanced Voltage Drop Report
Source: Maplesville

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.43674	PL.43673	A	#4 ACSR	7.25Y	120.8	0.01	4.19	3.79	3	27	7	97	0.00	0.0	4.167	0.035	4	1	1	4
PL.43675	PL.43674	A	#4 ACSR	7.25Y	120.8	0.00	4.20	2.49	2	17	5	96	0.00	0.0	4.255	0.088	17	5	2	2
PL.43975	PL.43674	A	#2 ACSR	7.25Y	120.8	0.00	4.20	0.74	0	5	1	98	0.00	0.0	4.274	0.107	5	1	1	1
PL.51880	PL.51737	A	#4 ACSR	7.26Y	121.0	0.00	4.02	0.00	0	0	0	100	0.00	0.0	3.648	0.040	0	0	0	0
PL.51740	PL.51960	A	6 A (CWC)	7.27Y	121.1	0.00	3.86	1.07	1	8	2	97	0.00	0.0	3.328	0.063	8	2	1	1
PL.51875	PL.51874	A	#1/0 ACSR	7.27Y	121.2	0.00	3.76	0.00	0	0	0	100	0.00	0.0	2.974	0.002	0	0	0	0
PD.7940	PL.51875	A	10QA	7.27Y	121.2	0.00	3.76	0.00	0	0	0	100	0.00	0.0	2.974	0.002	0	0	0	0
PL.51950	PD.7940	A	#1/0 ACSR	7.27Y	121.2	0.00	3.76	0.00	0	0	0	100	0.00	0.0	3.067	0.093	0	0	0	0
PL.51951	PL.51950	A	#1/0 ACSR	7.27Y	121.2	0.00	3.76	0.00	0	0	0	100	0.00	0.0	3.117	0.050	0	0	0	0
PL.43508	PL.43671	B	6 A (CWC)	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	2.428	0.006	0	0	0	0
PD.6893	PL.43508	B	40QA	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	2.428	0.006	0	0	0	0
PL.43509	PD.6893	B	6 A (CWC)	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	2.482	0.054	0	0	0	0
PL.43510	PL.43509	B	6 A (CWC)	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	2.775	0.293	0	0	0	0
PL.43667	PL.43666	B	#4 ACSR	7.30Y	121.7	0.00	3.29	0.91	1	6	2	95	0.00	0.0	1.888	0.006	0	0	0	1
PD.6967	PL.43667	B	40QA	7.30Y	121.7	0.00	3.29	0.91	2	6	2	95	0.00	0.0	1.888	0.006	0	0	0	1
PL.43668	PD.6967	B	#4 ACSR	7.30Y	121.7	0.00	3.29	0.91	1	6	2	95	0.00	0.0	1.971	0.083	0	0	0	1
PL.59819	PL.43668	B	1/0 AL URD	7.30Y	121.7	0.00	3.29	0.91	1	6	2	95	0.00	0.0	2.036	0.065	6	2	1	1
PL.43669	PL.43668	B	#4 ACSR	7.30Y	121.7	0.00	3.29	0.00	0	0	0	100	0.00	0.0	2.179	0.208	0	0	0	0
PL.43670	PL.43669	B	#4 ACSR	7.30Y	121.7	0.00	3.29	0.00	0	0	0	100	0.00	0.0	2.349	0.170	0	0	0	0
PL.43020	PL.43669	B	#4 ACSR	7.30Y	121.7	0.00	3.29	0.00	0	0	0	100	0.00	0.0	2.221	0.043	0	0	0	0
PL.44333	PL.44332	C	#4 ACSR	7.38Y	123.0	0.00	1.95	1.21	1	9	2	98	0.00	0.0	0.785	0.006	0	0	0	1
PD.6954	PL.44333	C	60QA	7.38Y	123.0	0.00	1.95	1.21	2	9	2	98	0.00	0.0	0.785	0.006	0	0	0	1
PL.44334	PD.6954	C	#4 ACSR	7.38Y	123.0	0.00	1.95	1.21	1	9	2	98	0.00	0.0	0.843	0.058	0	0	0	1
PL.63200	PL.44334	C	#1/0 ACSR	7.38Y	123.0	0.00	1.95	1.21	1	9	2	98	0.00	0.0	0.873	0.030	0	0	0	1
PL.63220	PL.63200	C	#1/0 ACSR	7.38Y	123.0	0.00	1.96	1.21	1	9	2	98	0.00	0.0	0.940	0.067	9	2	1	1
PL.43494	PL.43496	C	#2 ACSR	7.41Y	123.5	0.00	1.45	1.17	1	8	2	97	0.00	0.0	0.581	0.006	0	0	0	1
PD.6723	PL.43494	C	60QA	7.41Y	123.5	0.00	1.45	1.17	2	8	2	97	0.00	0.0	0.581	0.006	0	0	0	1
PL.43495	PD.6723	C	#2 ACSR	7.41Y	123.5	0.00	1.45	1.17	1	8	2	97	0.00	0.0	0.621	0.040	8	2	1	1
PL.43686	PL.43685	A	6 A (CWC)	7.43Y	123.8	0.00	1.25	2.00	1	14	4	96	0.00	0.0	0.499	0.006	0	0	0	2
PD.6891	PL.43686	A	60QA	7.43Y	123.8	0.00	1.25	2.00	3	14	4	96	0.00	0.0	0.499	0.006	0	0	0	2
PL.43687	PD.6891	A	6 A (CWC)	7.42Y	123.7	0.01	1.25	2.00	1	14	4	96	0.00	0.0	0.568	0.069	0	0	0	2

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

Balanced Voltage Drop Report
Source: Maplesville

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.43493	PL.43687	A	6 A (CWC)	7.42Y	123.7	0.00	1.25	0.44	0	3	1	95	0.00	0.0	0.576	0.008	3	1	1	1
PL.43076	PL.43687	A	#2 ACSR	7.42Y	123.7	0.00	1.26	1.56	1	11	3	96	0.00	0.0	0.629	0.061	11	3	1	1
PL.42001	PL.44330	C	6 A (CWC)	7.48Y	124.6	0.01	0.36	3.25	2	24	6	97	0.00	0.0	0.185	0.048	0	0	0	3
PL.43808	PL.42001	C	#3/0 ACSR	7.48Y	124.6	0.00	0.36	0.00	0	0	0	100	0.00	0.0	0.191	0.006	0	0	0	0
PD.6727	PL.43808	C	60QA	7.48Y	124.6	0.00	0.36	0.00	0	0	0	100	0.00	0.0	0.191	0.006	0	0	0	0
PL.43810	PD.6727	C	#3/0 ACSR	7.48Y	124.6	0.00	0.36	0.00	0	0	0	100	0.00	0.0	0.473	0.282	0	0	0	0
PL.44155	PL.43810	C	#4 ACSR	7.48Y	124.6	0.00	0.36	0.00	0	0	0	100	0.00	0.0	0.741	0.268	0	0	0	0
PL.43811	PL.43810	C	#3/0 ACSR	7.48Y	124.6	0.00	0.36	0.00	0	0	0	100	0.00	0.0	0.634	0.161	0	0	0	0
PL.43809	PL.42001	C	6 A (CWC)	7.48Y	124.6	0.00	0.36	3.25	2	24	6	97	0.00	0.0	0.191	0.006	0	0	0	3
PD.6857	PL.43809	C	25T	7.48Y	124.6	0.00	0.36	3.25	0	24	6	97	0.00	0.0	0.191	0.006	0	0	0	3
PL.43812	PD.6857	C	6 A (CWC)	7.48Y	124.6	0.01	0.37	3.25	2	24	6	97	0.00	0.0	0.272	0.081	0	0	0	3
PL.43664	PL.43812	C	6 A (CWC)	7.48Y	124.6	0.00	0.38	1.73	1	13	3	97	0.00	0.0	0.312	0.040	1	0	1	2
PL.43665	PL.43664	C	6 A (CWC)	7.48Y	124.6	0.00	0.38	1.55	1	11	3	96	0.00	0.0	0.404	0.093	11	3	1	1
PL.43432	PL.43812	C	6 A (CWC)	7.48Y	124.6	0.00	0.37	1.52	1	11	3	96	0.00	0.0	0.328	0.056	11	3	1	1
PL.52999	Maplesville	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	230.25	44	4929	1595	95	0.10	0.0	0.002	0.002	0	0	0	592
PL.53001	PL.52999	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	230.25	44	4929	1595	95	0.14	0.0	0.005	0.003	0	0	0	592
---------- Feeder No. 2 (Johnson Rd F2) Beginning with Device PD.8060 ----------																				
PD.8060	PL.53001	ABC	480VWE	7.50Y	125.0	0.00	0.01	230.25	0	4929	1594	95	0.00	0.0	0.005	0.003	0	0	0	592
PL.44164	PD.8060	ABC	336 MCM AC	7.49Y	124.8	0.15	0.16	230.25	44	4929	1594	95	3.63	0.1	0.087	0.081	0	0	0	592
PL.44135	PL.44164	ABC	336 MCM AC	7.45Y	124.1	0.72	0.87	228.43	44	4886	1575	95	17.78	0.4	0.491	0.405	0	0	0	588
PL.44136	PL.44135	ABC	336 MCM AC	7.44Y	124.0	0.12	0.99	228.43	44	4868	1534	95	2.87	0.1	0.556	0.065	0	0	0	588
PL.44035	PL.44136	ABC	336 MCM AC	7.42Y	123.7	0.31	1.30	219.58	42	4674	1477	95	7.49	0.2	0.741	0.184	0	0	0	567
PL.44036	PL.44035	A	#2 ACSR	7.42Y	123.7	0.00	1.31	2.67	2	19	5	97	0.00	0.0	0.765	0.024	0	0	0	3
PL.44037	PL.44036	A	#2 ACSR	7.42Y	123.7	0.00	1.31	2.67	2	19	5	97	0.00	0.0	0.789	0.024	13	4	2	3
PL.44038	PL.44037	A	#2 ACSR	7.42Y	123.7	0.00	1.31	0.81	0	6	2	95	0.00	0.0	0.823	0.034	6	2	1	1
PL.44039	PL.44035	ABC	336 MCM AC	7.40Y	123.4	0.34	1.64	218.69	42	4647	1454	95	8.09	0.2	0.942	0.201	0	0	0	564
PL.44219	PL.44039	C	#2 ACSR	7.40Y	123.4	0.00	1.64	3.37	2	24	6	97	0.00	0.0	0.974	0.032	24	6	1	1
PL.44040	PL.44039	ABC	336 MCM AC	7.38Y	123.0	0.32	1.96	217.56	42	4615	1429	96	7.58	0.2	1.132	0.190	0	0	0	563
PL.59145	PL.44040	A	#2 ACSR	7.38Y	123.0	0.00	1.96	3.95	2	28	7	97	0.00	0.0	1.135	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: Maplesville

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.8889	PL.59145	A	20T	7.38Y	123.0	0.00	1.96	3.95	0	28	7	97	0.00	0.0	1.135	0.004	0	0	0	1
PL.59146	PD.8889	A	#2 ACSR	7.38Y	123.0	0.00	1.96	3.95	2	28	7	97	0.00	0.0	1.175	0.040	28	7	1	1
PL.44433	PL.44040	ABC	336 MCM AC	7.37Y	122.8	0.22	2.18	216.25	42	4579	1404	96	5.11	0.1	1.262	0.130	0	0	0	562
PL.44098	PL.44433	ABC	336 MCM AC	7.36Y	122.6	0.21	2.38	202.01	39	4270	1310	96	4.61	0.1	1.396	0.134	0	0	0	524
PL.44143	PL.44098	ABC	336 MCM AC	7.35Y	122.6	0.06	2.44	202.01	39	4265	1299	96	1.31	0.0	1.434	0.038	16	4	1	524
PL.44144	PL.44143	ABC	336 MCM AC	7.35Y	122.5	0.07	2.51	201.00	39	4242	1290	96	1.53	0.0	1.479	0.045	0	0	0	522
PL.44147	PL.44144	ABC	336 MCM AC	7.35Y	122.4	0.06	2.57	201.00	39	4241	1287	96	1.36	0.0	1.519	0.040	0	0	0	522
PL.44148	PL.44147	ABC	336 MCM AC	7.33Y	122.1	0.31	2.88	200.02	39	4218	1278	96	6.86	0.2	1.722	0.204	1	0	1	519
PL.44307	PL.44148	ABC	336 MCM AC	7.32Y	122.0	0.08	2.96	199.95	39	4210	1262	96	1.68	0.0	1.772	0.050	0	0	0	518
PL.59805	PL.44307	ABC	336 MCM AC	7.32Y	121.9	0.12	3.08	199.95	39	4209	1258	96	2.72	0.1	1.853	0.081	0	0	0	518
PL.59806	PL.59805	ABC	336 MCM AC	7.31Y	121.8	0.08	3.17	198.99	38	4185	1246	96	1.84	0.0	1.908	0.055	13	3	2	516
PL.44149	PL.59806	ABC	336 MCM AC	7.31Y	121.8	0.04	3.21	198.38	38	4171	1238	96	0.94	0.0	1.937	0.028	12	3	1	514
PL.44150	PL.44149	ABC	336 MCM AC	7.30Y	121.7	0.10	3.30	197.79	38	4157	1233	96	2.10	0.1	2.000	0.064	0	0	0	513
PL.59014	PL.44150	A	#2 ACSR	7.30Y	121.7	0.00	3.30	5.72	3	40	11	96	0.00	0.0	2.001	0.000	0	0	0	4
PD.8664	PL.59014	A	25T	7.30Y	121.7	0.00	3.30	5.72	0	40	11	96	0.00	0.0	2.001	0.000	0	0	0	4
PL.64389	PD.8664	A	#2 ACSR	7.30Y	121.7	0.00	3.30	5.72	3	40	11	96	0.00	0.0	2.001	0.001	0	0	0	4
PL.64388	PL.64389	A	#2 ACSR	7.30Y	121.7	0.00	3.31	1.15	1	8	2	97	0.00	0.0	2.069	0.068	8	2	1	1
PL.64387	PL.64389	A	6 A (CWC)	7.30Y	121.7	0.02	3.33	4.57	3	32	9	96	0.01	0.0	2.105	0.103	0	0	0	3
PL.64384	PL.64387	A	6 A (CWC)	7.30Y	121.7	0.01	3.33	2.72	2	19	5	97	0.00	0.0	2.199	0.095	19	5	2	2
PL.64385	PL.64387	A	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	2.136	0.032	0	0	0	0
PL.64386	PL.64387	A	6 A (CWC)	7.30Y	121.7	0.00	3.33	1.85	1	13	3	97	0.00	0.0	2.105	0.000	13	3	1	1
PL.64383	PL.64386	A	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	2.238	0.134	0	0	0	0
PL.42980	PL.64383	A	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	2.259	0.021	0	0	0	0
PL.44263	PL.64383	A	#4 ACSR	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	2.284	0.045	0	0	0	0
PL.44305	PL.44150	ABC	336 MCM AC	7.29Y	121.5	0.16	3.46	195.89	38	4115	1217	96	3.41	0.1	2.106	0.106	8	2	1	509
PL.44306	PL.44305	ABC	336 MCM AC	7.29Y	121.5	0.07	3.53	195.50	38	4103	1207	96	1.46	0.0	2.152	0.046	20	5	1	508
PL.59684	PL.44306	ABC	336 MCM AC	7.29Y	121.4	0.05	3.58	194.54	37	4081	1198	96	1.13	0.0	2.187	0.035	12	3	1	507
PL.59685	PL.59684	ABC	336 MCM AC	7.28Y	121.3	0.08	3.67	193.98	37	4068	1192	96	1.83	0.0	2.245	0.058	0	0	0	506
PL.52076	PL.59685	A	#1/0 ACSR	7.28Y	121.3	0.00	3.67	4.17	2	29	8	96	0.00	0.0	2.288	0.043	0	0	0	2
PD.8007	PL.52076	A	40QA	7.28Y	121.3	0.00	3.67	4.17	10	29	8	96	0.00	0.0	2.288	0.043	0	0	0	2
PL.52077	PD.8007	A	#1/0 ACSR	7.28Y	121.3	0.02	3.68	4.17	2	29	8	96	0.00	0.0	2.447	0.158	0	0	0	2

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Balanced Voltage Drop Report
Source: Maplesville

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.52074	PL.52077	A	6 A (CWC)	7.28Y	121.3	0.02	3.70	4.17	3	29	8	96	0.00	0.0	2.617	0.171	29	8	2	2
PL.52075	PL.59685	ABC	336 MCM AC	7.27Y	121.2	0.11	3.77	192.59	37	4037	1180	96	2.31	0.1	2.319	0.074	0	0	0	504
PL.43092	PL.52075	ABC	336 MCM AC	7.27Y	121.1	0.14	3.92	192.59	37	4035	1175	96	3.09	0.1	2.418	0.099	0	0	0	504
PL.63172	PL.43092	A	#4 ACSR	7.26Y	121.1	0.01	3.93	3.58	3	25	7	96	0.00	0.0	2.501	0.084	0	0	0	2
PL.63173	PL.63172	A	#4 ACSR	7.26Y	121.1	0.00	3.93	0.00	0	0	0	100	0.00	0.0	2.553	0.052	0	0	1	1
PL.63174	PL.63172	A	#4 ACSR	7.26Y	121.1	0.01	3.94	3.58	3	25	7	96	0.00	0.0	2.619	0.117	25	7	1	1
PL.43093	PL.43092	ABC	336 MCM AC	7.26Y	121.0	0.12	4.03	191.40	37	4007	1161	96	2.52	0.1	2.500	0.082	21	6	2	502
PL.43094	PL.43093	ABC	336 MCM AC	7.25Y	120.8	0.14	4.17	190.39	37	3983	1150	96	2.98	0.1	2.597	0.098	0	0	0	500
PL.43589	PL.43094	ABC	#1/0 ACSR	7.20Y	120.0	0.78	4.95	109.25	48	2282	662	96	12.44	0.5	2.993	0.395	27	7	2	311
PL.58461	PL.43589	C	#4 ACSR	7.20Y	120.0	0.00	4.95	1.54	1	11	3	96	0.00	0.0	2.996	0.003	0	0	0	1
PD.8685	PL.58461	C	20T	7.20Y	120.0	0.00	4.95	1.54	0	11	3	96	0.00	0.0	2.996	0.003	0	0	0	1
PL.58462	PD.8685	C	#4 ACSR	7.20Y	120.0	0.00	4.96	1.54	1	11	3	96	0.00	0.0	3.063	0.067	11	3	1	1
PL.44077	PL.58462	C	#4 ACSR	7.20Y	120.0	0.00	4.96	0.00	0	0	0	100	0.00	0.0	3.117	0.055	0	0	0	0
PL.43969	PL.43589	ABC	#1/0 ACSR	7.18Y	119.7	0.33	5.28	106.49	46	2212	635	96	5.14	0.2	3.164	0.172	24	6	2	307
PL.43970	PL.43969	ABC	#1/0 ACSR	7.17Y	119.5	0.22	5.50	105.34	46	2183	624	96	3.33	0.2	3.277	0.113	8	2	1	305
PL.43971	PL.43970	ABC	#1/0 ACSR	7.16Y	119.4	0.12	5.62	104.97	46	2172	619	96	1.86	0.1	3.341	0.063	0	0	0	304
PL.43855	PL.43971	ABC	#1/0 ACSR	7.14Y	119.1	0.31	5.92	103.64	45	2142	609	96	4.67	0.2	3.504	0.163	0	0	0	302
PL.43858	PL.43855	ABC	#1/0 ACSR	7.14Y	118.9	0.15	6.08	102.83	45	2121	601	96	2.33	0.1	3.587	0.083	0	0	0	299
PL.43859	PL.43858	ABC	#1/0 ACSR	7.13Y	118.8	0.14	6.22	102.83	45	2118	598	96	2.17	0.1	3.664	0.077	0	0	0	299
PL.41999	PL.43859	ABC	#3/0 ACSR	7.12Y	118.7	0.08	6.30	95.34	32	1962	552	96	0.97	0.0	3.727	0.064	0	0	0	278
PL.44775	PL.41999	ABC	#3/0 ACSR	7.12Y	118.7	0.01	6.30	95.34	32	1961	551	96	0.09	0.0	3.733	0.006	0	0	0	278
PD.6821	PL.44775	ABC	240VWE	7.12Y	118.7	0.00	6.30	95.34	0	1961	551	96	0.00	0.0	3.733	0.006	0	0	0	278
PL.44776	PD.6821	ABC	#3/0 ACSR	7.11Y	118.5	0.17	6.47	95.34	32	1961	551	96	2.13	0.1	3.873	0.140	9	2	1	278
REG69	PL.44776	ABC	167Kkva	7.54Y	125.6	-7.06	-0.59	94.89	43	1950	545	96	percent Boost= 5.62 Tap= 9.0							277
PL.44777	REG69	ABC	#3/0 ACSR	7.53Y	125.5	0.07	-0.52	89.55	30	1950	545	96	0.80	0.0	3.932	0.059	2	1	1	277
PL.42957	PL.44777	ABC	#3/0 ACSR	7.53Y	125.5	0.00	-0.52	6.19	2	135	36	97	0.00	0.0	3.956	0.024	0	0	0	17
PL.44778	PL.42957	C	6 A (CWC)	7.53Y	125.5	0.00	-0.52	18.57	13	135	36	97	0.00	0.0	3.962	0.006	0	0	0	17
PD.6824	PL.44778	C	50L	7.53Y	125.5	0.00	-0.52	18.57	37	135	36	97	0.00	0.0	3.962	0.006	0	0	0	17
PL.44779	PD.6824	C	6 A (CWC)	7.53Y	125.4	0.07	-0.44	18.57	13	135	36	97	0.07	0.1	4.049	0.087	0	0	0	17
PL.44780	PL.44779	C	6 A (CWC)	7.52Y	125.3	0.11	-0.33	18.57	13	135	36	97	0.11	0.1	4.181	0.132	0	0	0	17
PL.44783	PL.44780	C	6 A (CWC)	7.51Y	125.2	0.08	-0.25	18.57	13	135	36	97	0.08	0.1	4.278	0.097	0	0	0	17

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Balanced Voltage Drop Report
Source: Maplesville

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.44784	PL.44783	C	6 A (CWC)	7.51Y	125.2	0.06	-0.19	18.16	13	132	35	97	0.06	0.0	4.352	0.074	4	1	1	15
PL.44785	PL.44784	C	6 A (CWC)	7.50Y	125.1	0.12	-0.07	17.65	13	128	34	97	0.11	0.1	4.502	0.150	0	0	0	14
PL.44786	PL.44785	C	6 A (CWC)	7.50Y	125.0	0.09	0.02	17.65	13	128	34	97	0.08	0.1	4.614	0.112	0	0	0	14
PL.52079	PL.44786	C	6 A (CWC)	7.49Y	124.9	0.07	0.10	14.49	10	105	28	97	0.06	0.1	4.725	0.111	0	0	0	8
PL.52078	PL.52079	C	6 A (CWC)	7.49Y	124.8	0.10	0.19	14.49	10	105	28	97	0.07	0.1	4.872	0.147	0	0	0	8
PL.52082	PL.52078	C	6 A (CWC)	7.48Y	124.7	0.09	0.28	14.49	10	105	28	97	0.07	0.1	5.002	0.130	0	0	0	8
PL.52081	PL.52082	C	#4 ACSR	7.48Y	124.7	0.00	0.28	0.00	0	0	0	100	0.00	0.0	5.051	0.049	0	0	0	0
PL.52080	PL.52082	C	6 A (CWC)	7.48Y	124.7	0.02	0.29	14.49	10	105	28	97	0.01	0.0	5.027	0.025	0	0	0	8
PL.52581	PL.52080	C	6 A (CWC)	7.48Y	124.7	0.02	0.31	3.42	2	25	7	96	0.00	0.0	5.148	0.120	0	0	0	1
PL.52582	PL.52581	C	6 A (CWC)	7.48Y	124.7	0.01	0.33	3.42	2	25	7	96	0.00	0.0	5.301	0.154	25	7	1	1
PL.52183	PL.52582	C	6 A (CWC)	7.48Y	124.7	0.00	0.33	0.00	0	0	0	100	0.00	0.0	5.393	0.092	0	0	0	0
PL.52083	PL.52080	C	6 A (CWC)	7.48Y	124.7	0.05	0.34	11.07	8	80	21	97	0.03	0.0	5.122	0.094	0	0	0	7
PL.52084	PL.52083	C	6 A (CWC)	7.48Y	124.6	0.01	0.36	9.04	6	65	17	97	0.01	0.0	5.161	0.039	15	4	2	6
PL.44658	PL.52084	C	6 A (CWC)	7.48Y	124.6	0.03	0.39	6.96	5	50	13	97	0.01	0.0	5.263	0.102	0	0	0	4
PL.44659	PL.44658	C	6 A (CWC)	7.48Y	124.6	0.01	0.40	5.90	4	43	11	97	0.00	0.0	5.304	0.041	11	3	1	3
PL.44660	PL.44659	C	6 A (CWC)	7.48Y	124.6	0.01	0.41	4.36	3	32	8	97	0.00	0.0	5.352	0.048	9	2	1	2
PL.44292	PL.44660	C	6 A (CWC)	7.47Y	124.6	0.01	0.42	3.15	2	23	6	97	0.00	0.0	5.531	0.179	23	6	1	1
PL.44200	PL.44658	C	#4 ACSR	7.48Y	124.6	0.00	0.39	1.06	1	8	2	97	0.00	0.0	5.312	0.049	8	2	1	1
PL.64093	PL.52083	C	#1/0 ACSR	7.48Y	124.7	0.00	0.34	2.03	1	15	4	97	0.00	0.0	5.183	0.061	15	4	1	1
PL.44787	PL.44786	C	#4 ACSR	7.50Y	125.0	0.02	0.04	3.16	2	23	6	97	0.00	0.0	4.727	0.113	0	0	1	6
PL.44788	PL.44787	C	#4 ACSR	7.50Y	124.9	0.01	0.05	3.16	2	23	6	97	0.00	0.0	4.818	0.091	0	0	1	5
PL.52840	PL.44788	C	#4 ACSR	7.50Y	124.9	0.00	0.05	2.18	2	16	4	97	0.00	0.0	4.870	0.052	16	4	2	3
PL.52841	PL.52840	C	#4 ACSR	7.50Y	124.9	0.00	0.05	0.01	0	0	0	100	0.00	0.0	4.901	0.031	0	0	0	1
PL.52842	PL.52841	C	#4 ACSR	7.50Y	124.9	0.00	0.05	0.01	0	0	0	100	0.00	0.0	4.956	0.055	0	0	0	1
PL.59896	PL.52842	C	#4 ACSR	7.50Y	124.9	0.00	0.05	0.01	0	0	0	100	0.00	0.0	4.988	0.032	0	0	0	1
PL.59898	PL.59896	C	#1/0 ACSR	7.50Y	124.9	0.00	0.05	0.01	0	0	0	100	0.00	0.0	5.019	0.031	0	0	1	1
PL.59897	PL.59896	C	#4 ACSR	7.50Y	124.9	0.00	0.05	0.00	0	0	0	100	0.00	0.0	5.100	0.112	0	0	0	0
PL.44156	PL.52842	C	#2 ACSR	7.50Y	124.9	0.00	0.05	0.00	0	0	0	100	0.00	0.0	5.002	0.046	0	0	0	0
PL.44256	PL.44788	C	#1/0 ACSR	7.50Y	124.9	0.00	0.05	0.98	0	7	2	96	0.00	0.0	4.953	0.136	7	2	1	1
PL.43799	PL.44787	C	#4 ACSR	7.50Y	125.0	0.00	0.04	0.00	0	0	0	100	0.00	0.0	4.804	0.078	0	0	0	0
PL.44276	PL.44785	C	#4 ACSR	7.50Y	125.1	0.00	-0.07	0.00	0	0	0	100	0.00	0.0	4.543	0.041	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: Maplesville

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.43590	PL.44783	C	6 A (CWC)	7.51Y	125.2	0.00	-0.25	0.41	0	3	1	95	0.00	0.0	4.357	0.079	3	1	2	2
PL.43972	PL.44780	C	6 A (CWC)	7.52Y	125.3	0.00	-0.33	0.00	0	0	0	100	0.00	0.0	4.246	0.065	0	0	0	0
PL.44781	PL.44779	C	#2 ACSR	7.53Y	125.4	0.00	-0.44	0.00	0	0	0	100	0.00	0.0	4.099	0.050	0	0	0	0
PL.44782	PL.44781	C	#2 ACSR	7.53Y	125.4	0.00	-0.44	0.00	0	0	0	100	0.00	0.0	4.199	0.100	0	0	0	0
PL.44789	PL.44777	ABC	#3/0 ACSR	7.52Y	125.4	0.12	-0.41	83.25	28	1811	508	96	1.28	0.1	4.042	0.110	4	1	1	259
PL.44153	PL.44789	ABC	#3/0 ACSR	7.52Y	125.3	0.08	-0.33	82.88	28	1802	504	96	0.87	0.0	4.118	0.076	19	5	1	257
PL.44267	PL.44153	A	#1/0 ACSR	7.52Y	125.3	0.00	-0.33	0.71	0	5	1	98	0.00	0.0	4.151	0.033	5	1	1	1
PL.62598	PL.44153	ABC	#3/0 ACSR	7.51Y	125.1	0.19	-0.14	81.75	27	1776	496	96	2.07	0.1	4.303	0.184	0	0	0	255
PL.62596	PL.62598	ABC	#3/0 ACSR	7.50Y	125.0	0.09	-0.05	78.60	26	1706	475	96	0.94	0.1	4.393	0.090	0	0	0	246
PL.44645	PL.62596	C	#4 ACSR	7.50Y	125.0	0.00	-0.05	0.09	0	1	0	100	0.00	0.0	4.399	0.006	0	0	0	1
PD.6934	PL.44645	C	40QA	7.50Y	125.0	0.00	-0.05	0.09	0	1	0	100	0.00	0.0	4.399	0.006	0	0	0	1
PL.44646	PD.6934	C	#4 ACSR	7.50Y	125.0	0.00	-0.05	0.09	0	1	0	100	0.00	0.0	4.416	0.016	1	0	1	1
PL.63159	PL.62596	C	#1/0 ACSR	7.50Y	125.0	0.01	-0.04	2.88	1	21	6	96	0.00	0.0	4.548	0.155	21	6	2	2
PL.62600	PL.62596	A	#2 ACSR	7.50Y	125.0	0.00	-0.05	4.62	3	34	9	97	0.00	0.0	4.397	0.003	0	0	0	3
PD.9397	PL.62600	A	10T	7.50Y	125.0	0.00	-0.05	4.62	0	34	9	97	0.00	0.0	4.397	0.003	0	0	0	3
PL.62601	PD.9397	A	#2 ACSR	7.50Y	125.0	0.00	-0.04	4.62	3	34	9	97	0.00	0.0	4.430	0.033	12	3	1	3
PL.44647	PL.62601	A	#2 ACSR	7.50Y	125.0	0.00	-0.04	2.98	2	22	6	96	0.00	0.0	4.473	0.044	7	2	1	2
PL.44648	PL.44647	A	#2 ACSR	7.50Y	125.0	0.00	-0.04	1.96	1	14	4	96	0.00	0.0	4.505	0.031	14	4	1	1
PL.44644	PL.62596	ABC	#3/0 ACSR	7.50Y	125.0	0.07	0.03	76.06	25	1650	459	96	0.75	0.0	4.471	0.077	0	0	0	240
PL.43553	PL.44644	B	6 A (CWC)	7.50Y	124.9	0.03	0.06	9.25	7	67	18	97	0.02	0.0	4.550	0.079	0	0	0	9
PL.43515	PL.43553	B	6 A (CWC)	7.50Y	124.9	0.00	0.06	9.25	7	67	18	97	0.00	0.0	4.556	0.006	0	0	0	9
PD.6897	PL.43515	B	40QA	7.50Y	124.9	0.00	0.06	9.25	23	67	18	97	0.00	0.0	4.556	0.006	0	0	0	9
PL.63182	PD.6897	B	6 A (CWC)	7.50Y	124.9	0.01	0.07	9.25	7	67	18	97	0.00	0.0	4.582	0.027	36	9	6	9
PL.63184	PL.63182	B	6 A (CWC)	7.49Y	124.9	0.02	0.09	4.28	3	31	8	97	0.00	0.0	4.670	0.088	0	0	0	3
PL.63185	PL.63184	B	6 A (CWC)	7.49Y	124.9	0.00	0.09	1.80	1	13	3	97	0.00	0.0	4.681	0.011	0	0	0	1
PL.63183	PL.63185	B	6 A (CWC)	7.49Y	124.9	0.01	0.09	1.80	1	13	3	97	0.00	0.0	4.831	0.150	13	3	1	1
PL.64378	PL.63184	B	#1/0 ACSR	7.49Y	124.9	0.01	0.09	2.48	1	18	5	96	0.00	0.0	4.761	0.091	0	0	0	2
PL.64379	PL.64378	B	#1/0 ACSR	7.49Y	124.9	0.00	0.09	1.51	1	11	3	96	0.00	0.0	4.802	0.040	11	3	1	1
PL.66139	PL.64378	B	#1/0 ACSR	7.49Y	124.9	0.00	0.09	0.97	0	7	2	96	0.00	0.0	4.859	0.098	0	0	0	1
PL.66140	PL.66139	B	#1/0 ACSR	7.49Y	124.9	0.00	0.09	0.97	0	7	2	96	0.00	0.0	4.859	0.000	7	2	1	1
PL.44184	PL.44644	ABC	#3/0 ACSR	7.49Y	124.8	0.15	0.18	72.84	24	1579	439	96	1.49	0.1	4.638	0.167	7	2	1	230

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: Maplesville

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.43411	PL.44184	ABC	#3/0 ACSR	7.48Y	124.6	0.17	0.35	72.42	24	1568	435	96	1.68	0.1	4.829	0.191	8	2	1	228
PL.43412	PL.43411	A	#4 ACSR	7.48Y	124.6	0.00	0.35	1.62	1	12	3	97	0.00	0.0	4.835	0.006	0	0	0	1
PD.6865	PL.43412	A	40QA	7.48Y	124.6	0.00	0.35	1.62	4	12	3	97	0.00	0.0	4.835	0.006	0	0	0	1
PL.43516	PD.6865	A	#4 ACSR	7.48Y	124.6	0.00	0.36	1.62	1	12	3	97	0.00	0.0	4.891	0.056	0	0	0	1
PL.43517	PL.43516	A	#4 ACSR	7.48Y	124.6	0.00	0.36	1.62	1	12	3	97	0.00	0.0	4.957	0.066	12	3	1	1
PL.44790	PL.43411	ABC	#3/0 ACSR	7.48Y	124.6	0.04	0.39	71.53	24	1547	427	96	0.39	0.0	4.874	0.045	0	0	1	226
PL.42953	PL.44790	A	#2 ACSR	7.48Y	124.6	0.00	0.39	0.00	0	0	0	100	0.00	0.0	4.898	0.024	0	0	0	0
PL.44791	PL.44790	A	#4 ACSR	7.48Y	124.6	0.00	0.39	1.08	1	8	2	97	0.00	0.0	4.880	0.006	0	0	0	2
PD.6864	PL.44791	A	40QA	7.48Y	124.6	0.00	0.39	1.08	3	8	2	97	0.00	0.0	4.880	0.006	0	0	0	2
PL.44792	PD.6864	A	#4 ACSR	7.48Y	124.6	0.00	0.40	1.08	1	8	2	97	0.00	0.0	5.015	0.135	8	2	2	2
PL.44793	PL.44790	ABC	#3/0 ACSR	7.47Y	124.4	0.16	0.56	71.17	24	1539	425	96	1.54	0.1	5.056	0.181	0	0	0	223
PL.44795	PL.44793	C	#4 ACSR	7.47Y	124.4	0.00	0.56	1.13	1	8	2	97	0.00	0.0	5.061	0.006	0	0	0	1
PD.6863	PL.44795	C	40QA	7.47Y	124.4	0.00	0.56	1.13	3	8	2	97	0.00	0.0	5.061	0.006	0	0	0	1
PL.44796	PD.6863	C	#4 ACSR	7.47Y	124.4	0.00	0.56	1.13	1	8	2	97	0.00	0.0	5.143	0.081	8	2	1	1
PL.44794	PL.44793	ABC	#3/0 ACSR	7.46Y	124.4	0.03	0.59	70.80	24	1529	420	96	0.33	0.0	5.094	0.039	0	0	0	222
PL.44797	PL.44794	ABC	#3/0 ACSR	7.46Y	124.4	0.01	0.60	70.80	24	1529	420	96	0.05	0.0	5.100	0.006	0	0	0	222
PL.44798	PL.44797	ABC	#3/0 ACSR	7.46Y	124.4	0.04	0.63	70.80	24	1529	420	96	0.33	0.0	5.140	0.040	10	3	1	222
PL.44799	PL.44798	ABC	#3/0 ACSR	7.46Y	124.3	0.05	0.68	70.33	23	1518	416	96	0.43	0.0	5.192	0.052	14	4	1	221
PL.44800	PL.44799	ABC	#3/0 ACSR	7.46Y	124.3	0.04	0.72	69.69	23	1504	412	96	0.39	0.0	5.240	0.049	20	5	1	220
PL.44801	PL.44800	ABC	#3/0 ACSR	7.45Y	124.2	0.05	0.77	68.77	23	1484	406	96	0.48	0.0	5.301	0.060	8	2	1	219
PL.44804	PL.44801	ABC	#3/0 ACSR	7.45Y	124.2	0.07	0.84	67.69	23	1460	400	96	0.63	0.0	5.383	0.082	0	0	0	217
PL.44269	PL.44804	A	#2 ACSR	7.45Y	124.2	0.00	0.84	0.95	1	7	2	96	0.00	0.0	5.430	0.047	7	2	1	1
PL.44805	PL.44804	ABC	#3/0 ACSR	7.45Y	124.1	0.05	0.89	67.37	22	1452	397	96	0.42	0.0	5.439	0.056	12	3	2	216
PL.64707	PL.44805	ABC	#3/0 ACSR	7.44Y	124.0	0.08	0.96	66.80	22	1440	393	96	0.67	0.0	5.529	0.090	9	2	1	214
PL.44806	PL.64707	ABC	#3/0 ACSR	7.44Y	124.0	0.05	1.02	66.37	22	1430	389	96	0.48	0.0	5.594	0.065	2	1	1	213
PL.44807	PL.44806	A	6 A (CWC)	7.44Y	124.0	0.00	1.02	0.27	0	2	1	89	0.00	0.0	5.600	0.006	0	0	0	1
PD.6971	PL.44807	A	40QA	7.44Y	124.0	0.00	1.02	0.27	1	2	1	89	0.00	0.0	5.600	0.006	0	0	0	1
PL.59871	PD.6971	A	6 A (CWC)	7.44Y	124.0	0.00	1.02	0.27	0	2	1	89	0.00	0.0	5.657	0.057	2	1	1	1
PL.59872	PL.59871	A	6 A (CWC)	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	5.732	0.075	0	0	0	0
PL.52656	PL.44806	ABC	#3/0 ACSR	7.43Y	123.9	0.09	1.11	66.18	22	1425	388	96	0.80	0.1	5.704	0.109	0	0	0	211
PL.52657	PL.52656	ABC	#3/0 ACSR	7.43Y	123.8	0.11	1.22	66.18	22	1424	387	96	0.97	0.1	5.836	0.132	0	0	0	211

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: Maplesville

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.44242	PL.52657	ABC	#3/0 ACSR	7.43Y	123.8	0.03	1.24	42.29	14	909	248	96	0.14	0.0	5.884	0.048	0	0	0	124
PL.63799	PL.44242	ABC	#3/0 ACSR	7.42Y	123.7	0.06	1.30	42.21	14	907	247	96	0.33	0.0	5.994	0.110	2	0	1	123
PL.63800	PL.63799	ABC	#3/0 ACSR	7.42Y	123.6	0.07	1.37	42.14	14	905	246	96	0.37	0.0	6.119	0.125	0	0	0	122
PL.63801	PL.63800	ABC	#3/0 ACSR	7.41Y	123.6	0.07	1.44	41.35	14	888	241	97	0.39	0.0	6.255	0.136	2	1	1	121
PL.52055	PL.63801	A	6 A (CWC)	7.41Y	123.6	0.00	1.44	1.70	1	12	3	97	0.00	0.0	6.261	0.006	0	0	0	2
PD.6903	PL.52055	A	40QA	7.41Y	123.6	0.00	1.44	1.70	4	12	3	97	0.00	0.0	6.261	0.006	0	0	0	2
PL.44248	PD.6903	A	6 A (CWC)	7.41Y	123.6	0.00	1.44	1.70	1	12	3	97	0.00	0.0	6.304	0.044	0	0	1	2
PL.44249	PL.44248	A	6 A (CWC)	7.41Y	123.6	0.00	1.45	1.70	1	12	3	97	0.00	0.0	6.356	0.051	12	3	1	1
PL.52057	PL.63801	A C	#1/0 ACSR	7.41Y	123.5	0.02	1.46	32.78	14	469	128	96	0.06	0.0	6.285	0.030	0	0	0	56
PL.52060	PL.52057	A C	#1/0 ACSR	7.41Y	123.5	0.06	1.52	32.78	14	469	128	96	0.19	0.0	6.374	0.089	0	0	0	56
PD.8006	PL.52060	A C	70L	7.41Y	123.5	0.00	1.52	32.78	47	469	127	97	0.00	0.0	6.374	0.089	0	0	0	56
PL.52843	PD.8006	A C	#1/0 ACSR	7.41Y	123.4	0.04	1.56	32.78	14	469	127	97	0.14	0.0	6.441	0.066	12	3	1	56
PL.63158	PL.52843	A C	#1/0 ACSR	7.40Y	123.4	0.06	1.63	31.95	14	457	124	97	0.19	0.0	6.533	0.092	0	0	1	55
PL.63157	PL.63158	A C	#1/0 ACSR	7.40Y	123.3	0.09	1.72	31.93	14	456	124	96	0.27	0.1	6.669	0.136	0	0	0	54
PL.52059	PL.63157	C	6 A (CWC)	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	6.675	0.006	0	0	0	0
PD.6925	PL.52059	C	40QA	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	6.675	0.006	0	0	0	0
PL.43599	PD.6925	C	6 A (CWC)	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	6.751	0.076	0	0	0	0
PL.52058	PL.63157	A C	#1/0 ACSR	7.39Y	123.2	0.06	1.78	31.93	14	456	124	96	0.20	0.0	6.767	0.098	0	0	0	54
PL.52061	PL.52058	A C	#1/0 ACSR	7.39Y	123.2	0.04	1.82	31.21	14	445	121	96	0.11	0.0	6.827	0.060	3	1	2	53
PL.52062	PL.52061	A C	#1/0 ACSR	7.38Y	123.1	0.11	1.92	30.98	13	442	120	97	0.31	0.1	6.994	0.167	5	1	1	51
PL.52063	PL.52062	A C	#1/0 ACSR	7.38Y	123.0	0.03	1.96	30.64	13	437	118	97	0.09	0.0	7.043	0.049	0	0	0	50
PL.52819	PL.52063	A C	#1/0 ACSR	7.38Y	123.0	0.04	2.00	30.64	13	437	118	97	0.13	0.0	7.114	0.071	4	1	2	50
PL.52818	PL.52819	A	#1/0 ACSR	7.38Y	123.0	0.02	2.02	6.32	3	45	12	97	0.00	0.0	7.229	0.114	0	0	0	4
PL.52065	PL.52818	A	#1/0 ACSR	7.38Y	123.0	0.01	2.03	4.58	2	33	9	96	0.00	0.0	7.312	0.083	3	1	1	3
PL.52064	PL.52065	A	#1/0 ACSR	7.38Y	123.0	0.01	2.03	4.15	2	30	8	97	0.00	0.0	7.377	0.065	0	0	0	2
PL.42507	PL.52064	A	#4 ACSR	7.38Y	123.0	0.00	2.03	4.15	3	30	8	97	0.00	0.0	7.403	0.026	30	8	2	2
PL.52066	PL.52064	A	#1/0 ACSR	7.38Y	123.0	0.00	2.03	0.00	0	0	0	100	0.00	0.0	7.428	0.051	0	0	0	0
PL.43079	PL.52818	A	#2 ACSR	7.38Y	123.0	0.00	2.02	1.74	1	12	3	97	0.00	0.0	7.254	0.026	12	3	1	1
PL.52821	PL.52819	C	6 A (CWC)	7.33Y	122.2	0.77	2.77	54.34	39	387	105	97	2.21	0.6	7.431	0.317	14	4	1	44
PL.52822	PL.52821	C	6 A (CWC)	7.33Y	122.1	0.13	2.90	52.40	37	371	100	97	0.37	0.1	7.486	0.055	0	0	0	43
PL.52820	PL.52822	C	6 A (CWC)	7.32Y	122.0	0.06	2.96	52.40	37	371	100	97	0.17	0.0	7.511	0.025	0	0	0	43

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Balanced Voltage Drop Report
Source: Maplesville

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.52817	PL.52820	C	#4 ACSR	7.32Y	122.0	0.00	2.97	0.64	0	5	1	98	0.00	0.0	7.553	0.042	5	1	1	1
PL.52221	PL.52820	C	6 A (CWC)	7.31Y	121.9	0.13	3.10	51.76	37	366	98	97	0.36	0.1	7.568	0.057	7	2	1	42
PL.52223	PL.52221	C	6 A (CWC)	7.30Y	121.6	0.30	3.40	50.77	36	359	96	97	0.79	0.2	7.702	0.134	25	7	2	41
PL.52224	PL.52223	C	6 A (CWC)	7.29Y	121.5	0.06	3.46	45.48	32	321	86	97	0.14	0.0	7.731	0.029	0	0	0	38
PL.52222	PL.52224	C	6 A (CWC)	7.29Y	121.5	0.09	3.54	45.48	32	320	86	97	0.21	0.1	7.772	0.041	0	0	1	38
PL.52228	PL.52222	C	6 A (CWC)	7.28Y	121.4	0.08	3.63	45.43	32	320	86	97	0.20	0.1	7.813	0.041	13	3	1	37
PL.52231	PL.52228	C	6 A (CWC)	7.28Y	121.3	0.09	3.72	42.07	30	296	79	97	0.21	0.1	7.863	0.049	8	2	2	35
PL.52232	PL.52231	C	6 A (CWC)	7.27Y	121.2	0.10	3.82	40.97	29	288	77	97	0.22	0.1	7.917	0.054	0	0	0	33
PL.52229	PL.52232	C	6 A (CWC)	7.26Y	121.1	0.10	3.92	40.97	29	288	77	97	0.21	0.1	7.968	0.052	0	0	0	33
PL.44577	PL.52229	C	6 A (CWC)	7.25Y	120.8	0.26	4.17	40.04	29	281	75	97	0.55	0.2	8.110	0.141	0	0	0	31
PL.44579	PL.44577	C	6 A (CWC)	7.24Y	120.7	0.14	4.31	40.04	29	280	75	97	0.30	0.1	8.186	0.076	0	0	0	31
PL.52220	PL.44579	C	6 A (CWC)	7.24Y	120.7	0.01	4.32	2.65	2	19	5	97	0.00	0.0	8.327	0.141	19	5	1	2
PL.52225	PL.52220	C	6 A (CWC)	7.24Y	120.7	0.00	4.32	0.00	0	0	0	100	0.00	0.0	8.367	0.040	0	0	1	1
PL.44580	PL.44579	C	6 A (CWC)	7.23Y	120.4	0.26	4.58	37.39	27	262	70	97	0.52	0.2	8.343	0.158	12	3	1	29
PL.63186	PL.44580	C	6 A (CWC)	7.20Y	120.0	0.42	5.00	35.74	26	250	66	97	0.79	0.3	8.610	0.267	13	3	1	28
PL.63188	PL.63186	C	6 A (CWC)	7.19Y	119.9	0.11	5.11	21.45	15	149	39	97	0.12	0.1	8.720	0.110	0	0	0	15
PL.63187	PL.63188	C	6 A (CWC)	7.19Y	119.9	0.04	5.15	5.97	4	42	11	97	0.01	0.0	8.888	0.168	9	2	1	3
PL.44581	PL.63187	C	6 A (CWC)	7.19Y	119.8	0.02	5.17	4.74	3	33	9	96	0.00	0.0	9.083	0.195	33	9	2	2
PL.63189	PL.63188	C	6 A (CWC)	7.19Y	119.8	0.09	5.20	15.48	11	108	28	97	0.08	0.1	8.850	0.130	0	0	0	12
PL.43433	PL.63189	C	#4 ACSR	7.19Y	119.8	0.00	5.20	0.75	1	5	1	98	0.00	0.0	8.891	0.042	5	1	1	1
PL.44582	PL.63189	C	6 A (CWC)	7.18Y	119.7	0.07	5.27	14.73	11	102	27	97	0.05	0.0	8.985	0.135	44	12	5	11
PL.44220	PL.44582	C	6 A (CWC)	7.18Y	119.7	0.02	5.29	8.42	6	58	15	97	0.01	0.0	9.034	0.049	0	0	0	6
PL.44221	PL.44220	C	6 A (CWC)	7.18Y	119.7	0.00	5.29	1.76	1	12	3	97	0.00	0.0	9.082	0.048	0	0	1	2
PL.44222	PL.44221	C	6 A (CWC)	7.18Y	119.7	0.00	5.30	1.74	1	12	3	97	0.00	0.0	9.124	0.042	12	3	1	1
PL.63201	PL.44220	C	#1/0 ACSR	7.18Y	119.7	0.00	5.29	5.00	2	35	9	97	0.00	0.0	9.086	0.052	14	4	2	3
PL.63202	PL.63201	C	#1/0 ACSR	7.18Y	119.7	0.00	5.29	2.97	1	21	5	97	0.00	0.0	9.089	0.003	0	0	0	1
PD.9467	PL.63202	C	10	7.18Y	119.7	0.00	5.29	2.97	30	21	5	97	0.00	0.0	9.089	0.003	0	0	0	1
PL.63168	PD.9467	C	#1/0 ACSR	7.18Y	119.7	0.00	5.30	2.97	1	21	5	97	0.00	0.0	9.120	0.031	0	0	0	1
PL.63166	PL.63168	C	#1/0 ACSR	7.18Y	119.7	0.01	5.31	2.97	1	21	5	97	0.00	0.0	9.252	0.133	0	0	0	1
PL.63167	PL.63166	C	#1/0 ACSR	7.18Y	119.7	0.00	5.31	2.97	1	21	5	97	0.00	0.0	9.361	0.109	21	5	1	1
PL.43987	PL.44220	C	#2 ACSR	7.18Y	119.7	0.00	5.29	1.66	1	12	3	97	0.00	0.0	9.055	0.021	12	3	1	1

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Balanced Voltage Drop Report
Source: Maplesville

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.63190	PL.63186	C	6 A (CWC)	7.20Y	120.0	0.03	5.03	12.43	9	87	23	97	0.02	0.0	8.665	0.055	25	7	2	12
PL.44223	PL.63190	C	6 A (CWC)	7.20Y	119.9	0.04	5.06	8.82	6	61	16	97	0.02	0.0	8.757	0.092	2	1	1	10
PL.43814	PL.44223	C	6 A (CWC)	7.19Y	119.9	0.07	5.13	8.48	6	59	16	97	0.03	0.1	8.929	0.172	0	0	0	9
PL.43815	PL.43814	C	6 A (CWC)	7.19Y	119.8	0.04	5.17	7.17	5	50	13	97	0.01	0.0	9.037	0.108	0	0	0	8
PL.43016	PL.43815	C	#4 ACSR	7.19Y	119.8	0.00	5.17	0.00	0	0	0	100	0.00	0.0	9.125	0.088	0	0	0	0
PL.43813	PL.43815	C	6 A (CWC)	7.19Y	119.8	0.06	5.22	7.17	5	50	13	97	0.02	0.0	9.216	0.179	0	0	0	8
PL.62488	PL.43813	C	6 A (CWC)	7.19Y	119.8	0.00	5.22	4.74	3	33	9	96	0.00	0.0	9.219	0.003	0	0	0	5
PD.9355	PL.62488	C	15T	7.19Y	119.8	0.00	5.22	4.74	0	33	9	96	0.00	0.0	9.219	0.003	0	0	0	5
PL.62489	PD.9355	C	6 A (CWC)	7.18Y	119.7	0.03	5.25	4.74	3	33	9	96	0.01	0.0	9.358	0.139	0	0	0	5
PL.44262	PL.62489	C	6 A (CWC)	7.18Y	119.7	0.00	5.26	1.35	1	9	2	98	0.00	0.0	9.410	0.052	9	2	1	1
PL.43816	PL.62489	C	6 A (CWC)	7.18Y	119.7	0.04	5.29	3.39	2	24	6	97	0.01	0.0	9.588	0.230	0	0	0	4
PL.43817	PL.43816	C	6 A (CWC)	7.18Y	119.7	0.01	5.30	1.44	1	10	3	96	0.00	0.0	9.810	0.222	9	2	1	2
PL.43818	PL.43817	C	6 A (CWC)	7.18Y	119.7	0.00	5.30	0.18	0	1	0	100	0.00	0.0	9.941	0.131	1	0	1	1
PL.44154	PL.43816	C	#4 ACSR	7.18Y	119.7	0.00	5.29	1.95	2	14	4	96	0.00	0.0	9.656	0.068	14	4	2	2
PL.43819	PL.43813	C	6 A (CWC)	7.19Y	119.8	0.01	5.23	2.42	2	17	4	97	0.00	0.0	9.313	0.097	0	0	0	3
PL.43820	PL.43819	C	6 A (CWC)	7.19Y	119.8	0.00	5.24	2.42	2	17	4	97	0.00	0.0	9.349	0.036	0	0	0	3
PL.58452	PL.43820	C	6 A (CWC)	7.19Y	119.8	0.00	5.24	2.42	2	17	4	97	0.00	0.0	9.350	0.001	0	0	0	3
PD.8595	PL.58452	C	15T	7.19Y	119.8	0.00	5.24	2.42	0	17	4	97	0.00	0.0	9.350	0.001	0	0	0	3
PL.58453	PD.8595	C	6 A (CWC)	7.19Y	119.8	0.01	5.25	2.42	2	17	4	97	0.00	0.0	9.426	0.076	0	0	0	3
PL.43823	PL.58453	C	6 A (CWC)	7.18Y	119.7	0.01	5.25	0.92	1	6	2	95	0.00	0.0	9.597	0.171	0	0	0	2
PL.43824	PL.43823	C	#4 ACSR	7.18Y	119.7	0.01	5.26	0.92	1	6	2	95	0.00	0.0	9.816	0.218	0	0	0	2
PL.43779	PL.43824	C	6 A (CWC)	7.18Y	119.7	0.00	5.26	0.00	0	0	0	100	0.00	0.0	10.052	0.237	0	0	0	0
PL.44224	PL.43824	C	6 A (CWC)	7.18Y	119.7	0.01	5.27	0.92	1	6	2	95	0.00	0.0	9.973	0.157	0	0	0	2
PL.44225	PL.44224	C	6 A (CWC)	7.18Y	119.7	0.00	5.27	0.92	1	6	2	95	0.00	0.0	10.077	0.105	0	0	0	2
PL.44193	PL.44225	C	6 A (CWC)	7.18Y	119.7	0.00	5.27	0.00	0	0	0	100	0.00	0.0	10.161	0.084	0	0	0	0
PL.44226	PL.44225	C	6 A (CWC)	7.18Y	119.7	0.01	5.28	0.92	1	6	2	95	0.00	0.0	10.270	0.193	0	0	0	2
PL.44227	PL.44226	C	6 A (CWC)	7.18Y	119.7	0.01	5.29	0.92	1	6	2	95	0.00	0.0	10.635	0.365	3	1	1	2
PL.44228	PL.44227	C	6 A (CWC)	7.18Y	119.7	0.00	5.30	0.49	0	3	1	95	0.00	0.0	10.736	0.101	3	1	1	1
PL.43571	PL.43823	C	6 A (CWC)	7.18Y	119.7	0.00	5.25	0.00	0	0	0	100	0.00	0.0	9.694	0.096	0	0	0	0
PL.62471	PL.58453	C	6 A (CWC)	7.19Y	119.8	0.00	5.25	1.50	1	10	3	96	0.00	0.0	9.429	0.003	0	0	0	1
PD.9348	PL.62471	C	10T	7.19Y	119.8	0.00	5.25	1.50	0	10	3	96	0.00	0.0	9.429	0.003	0	0	0	1

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Balanced Voltage Drop Report
Source: Maplesville

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.62472	PD.9348	C	6 A (CWC)	7.18Y	119.7	0.01	5.25	1.50	1	10	3	96	0.00	0.0	9.519	0.090	0	0	0	1
PL.43821	PL.62472	C	6 A (CWC)	7.18Y	119.7	0.06	5.31	1.50	1	10	3	96	0.00	0.0	10.409	0.890	0	0	0	1
PL.44079	PL.43821	C	6 A (CWC)	7.18Y	119.7	0.00	5.31	0.00	0	0	0	100	0.00	0.0	10.632	0.223	0	0	0	0
PL.43822	PL.43821	C	6 A (CWC)	7.18Y	119.7	0.00	5.32	1.50	1	10	3	96	0.00	0.0	10.510	0.101	10	3	1	1
PL.52837	PL.43814	C	#4 ACSR	7.19Y	119.9	0.00	5.13	1.31	1	9	2	98	0.00	0.0	8.961	0.033	0	0	0	1
PL.52838	PL.52837	C	#4 ACSR	7.19Y	119.9	0.00	5.13	1.31	1	9	2	98	0.00	0.0	8.996	0.035	0	0	0	1
PL.52839	PL.52838	C	#4 ACSR	7.19Y	119.9	0.00	5.13	1.31	1	9	2	98	0.00	0.0	9.021	0.025	9	2	1	1
PL.44578	PL.44577	C	6 A (CWC)	7.25Y	120.8	0.00	4.17	0.00	0	0	0	100	0.00	0.0	8.139	0.030	0	0	0	0
PL.44661	PL.52229	C	6 A (CWC)	7.26Y	121.1	0.00	3.92	0.94	1	7	2	96	0.00	0.0	8.041	0.073	7	2	1	2
PL.44576	PL.44661	C	6 A (CWC)	7.26Y	121.1	0.00	3.92	0.00	0	0	0	100	0.00	0.0	8.087	0.046	0	0	1	1
PL.52230	PL.52228	C	#2 ACSR	7.28Y	121.4	0.00	3.63	1.56	1	11	3	96	0.00	0.0	7.857	0.044	0	0	0	1
PL.52219	PL.52230	C	#2 ACSR	7.28Y	121.4	0.00	3.63	1.56	1	11	3	96	0.00	0.0	7.901	0.044	11	3	1	1
PL.59811	PL.52223	C	#1/0 ACSR	7.30Y	121.6	0.00	3.40	1.71	1	12	3	97	0.00	0.0	7.738	0.036	0	0	0	1
PL.59812	PL.59811	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	1.71	1	12	3	97	0.00	0.0	7.778	0.039	12	3	1	1
PL.52825	PL.52058	C	6 A (CWC)	7.39Y	123.2	0.00	1.78	1.42	1	10	3	96	0.00	0.0	6.773	0.006	0	0	0	1
PD.7977	PL.52825	C	40QA	7.39Y	123.2	0.00	1.78	1.42	4	10	3	96	0.00	0.0	6.773	0.006	0	0	0	1
PL.52826	PD.7977	C	6 A (CWC)	7.39Y	123.2	0.01	1.79	1.42	1	10	3	96	0.00	0.0	6.939	0.166	10	3	1	1
PL.52828	PL.52826	C	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	6.969	0.031	0	0	0	0
PL.52827	PL.52828	C	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	7.125	0.155	0	0	0	0
PL.52056	PL.63801	ABC	#3/0 ACSR	7.41Y	123.6	0.01	1.45	18.85	6	405	109	97	0.03	0.0	6.298	0.043	0	0	0	62
PL.44808	PL.52056	ABC	#3/0 ACSR	7.41Y	123.5	0.03	1.48	18.85	6	405	109	97	0.08	0.0	6.437	0.139	0	0	0	62
PL.44809	PL.44808	A	6 A (CWC)	7.41Y	123.5	0.00	1.48	1.05	1	8	2	97	0.00	0.0	6.443	0.006	0	0	0	3
PD.6725	PL.44809	A	40QA	7.41Y	123.5	0.00	1.48	1.05	3	8	2	97	0.00	0.0	6.443	0.006	0	0	0	3
PL.44810	PD.6725	A	6 A (CWC)	7.41Y	123.5	0.00	1.49	1.05	1	8	2	97	0.00	0.0	6.500	0.058	2	1	1	3
PL.44811	PL.44810	A	6 A (CWC)	7.41Y	123.5	0.00	1.49	0.73	1	5	1	98	0.00	0.0	6.540	0.040	5	1	2	2
PL.44812	PL.44808	ABC	#3/0 ACSR	7.41Y	123.5	0.01	1.49	18.50	6	397	107	97	0.03	0.0	6.490	0.053	0	0	0	59
PL.44815	PL.44812	ABC	#3/0 ACSR	7.41Y	123.5	0.02	1.51	18.03	6	387	104	97	0.04	0.0	6.565	0.075	0	0	0	58
PL.44816	PL.44815	ABC	#3/0 ACSR	7.41Y	123.5	0.04	1.55	18.03	6	387	104	97	0.09	0.0	6.732	0.167	7	2	1	58
PL.42508	PL.44816	C	6 A (CWC)	7.41Y	123.4	0.03	1.58	50.97	36	364	98	97	0.09	0.0	6.746	0.014	0	0	0	53
PL.58518	PL.42508	C	6 A (CWC)	7.40Y	123.4	0.01	1.59	50.97	36	364	98	97	0.02	0.0	6.748	0.003	0	0	0	53
PD.8704	PL.58518	C	100L	7.40Y	123.4	0.00	1.59	50.97	51	364	98	97	0.00	0.0	6.748	0.003	0	0	0	53

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Balanced Voltage Drop Report
Source: Maplesville

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.58519	PD.8704	C	6 A (CWC)	7.37Y	122.8	0.57	2.15	50.97	36	364	98	97	1.55	0.4	6.991	0.242	0	0	0	53
PL.58517	PL.58519	C	6 A (CWC)	7.36Y	122.6	0.23	2.39	50.97	36	363	97	97	0.64	0.2	7.091	0.100	0	0	0	53
PL.44261	PL.58517	C	6 A (CWC)	7.36Y	122.6	0.00	2.39	0.91	1	6	2	95	0.00	0.0	7.184	0.093	6	2	2	2
PL.44817	PL.58517	C	6 A (CWC)	7.31Y	121.8	0.79	3.18	50.06	36	356	95	97	2.13	0.6	7.436	0.345	0	0	0	51
PL.44818	PL.44817	C	6 A (CWC)	7.30Y	121.7	0.14	3.32	47.18	34	333	89	97	0.34	0.1	7.501	0.065	13	4	1	49
PL.52068	PL.44818	C	6 A (CWC)	7.29Y	121.5	0.21	3.52	45.28	32	319	85	97	0.50	0.2	7.602	0.101	0	0	0	48
PL.52070	PL.52068	C	#4 ACSR	7.28Y	121.4	0.11	3.64	8.80	7	62	16	97	0.05	0.1	7.891	0.289	0	0	0	6
PL.52071	PL.52070	C	#4 ACSR	7.28Y	121.4	0.00	3.64	1.53	1	11	3	96	0.00	0.0	7.936	0.045	3	1	1	2
PL.52069	PL.52071	C	#4 ACSR	7.28Y	121.4	0.00	3.64	1.10	1	8	2	97	0.00	0.0	8.036	0.100	0	0	0	1
PL.52227	PL.52069	C	#4 ACSR	7.28Y	121.4	0.00	3.65	1.10	1	8	2	97	0.00	0.0	8.100	0.064	8	2	1	1
PL.52226	PL.52227	C	#4 ACSR	7.28Y	121.4	0.00	3.65	0.00	0	0	0	100	0.00	0.0	8.154	0.055	0	0	0	0
PL.53056	PL.52070	C	#1/0 ACSR	7.28Y	121.3	0.05	3.69	7.27	3	51	14	96	0.02	0.0	8.208	0.317	0	0	0	4
PL.53057	PL.53056	C	#1/0 ACSR	7.28Y	121.3	0.01	3.70	7.27	3	51	14	96	0.00	0.0	8.240	0.032	0	0	0	4
PL.52073	PL.53057	C	#1/0 ACSR	7.28Y	121.3	0.01	3.70	7.27	3	51	13	97	0.00	0.0	8.290	0.050	0	0	0	4
PL.43795	PL.52073	C	#2 ACSR	7.28Y	121.3	0.04	3.74	7.27	4	51	13	97	0.01	0.0	8.453	0.163	0	0	0	4
PL.44662	PL.43795	C	6 A (CWC)	7.28Y	121.3	0.01	3.75	2.33	2	16	4	97	0.00	0.0	8.558	0.105	16	4	1	1
PL.52072	PL.44662	C	6 A (CWC)	7.28Y	121.3	0.00	3.75	0.00	0	0	0	100	0.00	0.0	8.612	0.054	0	0	0	0
PL.44196	PL.43795	C	6 A (CWC)	7.28Y	121.3	0.00	3.74	0.00	0	0	0	100	0.00	0.0	8.496	0.043	0	0	0	0
PL.44663	PL.43795	C	#2 ACSR	7.28Y	121.3	0.00	3.74	4.95	3	35	9	97	0.00	0.0	8.479	0.026	0	0	1	3
PL.44664	PL.44663	C	#2 ACSR	7.28Y	121.3	0.00	3.75	2.75	2	19	5	97	0.00	0.0	8.515	0.036	0	0	0	1
PL.44665	PL.44664	C	#2 ACSR	7.27Y	121.2	0.00	3.75	2.75	2	19	5	97	0.00	0.0	8.568	0.053	19	5	1	1
PL.43774	PL.44663	C	#2 ACSR	7.28Y	121.3	0.00	3.75	2.14	1	15	4	97	0.00	0.0	8.506	0.027	15	4	1	1
PL.52067	PL.52068	C	6 A (CWC)	7.28Y	121.3	0.14	3.66	36.48	26	257	68	97	0.27	0.1	7.686	0.084	0	0	2	42
PL.44326	PL.52067	C	6 A (CWC)	7.27Y	121.2	0.15	3.82	36.48	26	257	68	97	0.30	0.1	7.780	0.094	8	2	1	40
PL.44327	PL.44326	C	6 A (CWC)	7.27Y	121.2	0.00	3.82	0.86	1	6	2	95	0.00	0.0	7.843	0.063	0	0	0	1
PL.44328	PL.44327	C	6 A (CWC)	7.27Y	121.2	0.00	3.82	0.86	1	6	2	95	0.00	0.0	7.882	0.039	6	2	1	1
PL.44819	PL.44326	C	6 A (CWC)	7.26Y	121.1	0.13	3.94	34.47	25	242	64	97	0.22	0.1	7.864	0.084	21	6	2	38
PL.44820	PL.44819	C	6 A (CWC)	7.26Y	121.0	0.01	3.95	1.66	1	12	3	97	0.00	0.0	8.022	0.158	3	1	1	2
PL.44821	PL.44820	C	6 A (CWC)	7.26Y	121.0	0.00	3.96	1.27	1	9	2	98	0.00	0.0	8.104	0.082	9	2	1	1
PL.43886	PL.44819	C	6 A (CWC)	7.25Y	120.9	0.16	4.10	27.98	20	196	52	97	0.24	0.1	7.989	0.125	0	0	0	31
PL.52823	PL.43886	C	#2 ACSR	7.25Y	120.9	0.00	4.11	1.76	1	12	3	97	0.00	0.0	8.041	0.052	0	0	0	2

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Balanced Voltage Drop Report
Source: Maplesville

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.52824	PL.52823	C	#1/0 ACSR	7.25Y	120.9	0.00	4.11	1.76	1	12	3	97	0.00	0.0	8.082	0.041	12	3	2	2
PL.43887	PL.43886	C	6 A (CWC)	7.25Y	120.8	0.12	4.23	26.22	19	184	49	97	0.17	0.1	8.097	0.108	12	3	1	29
PL.43888	PL.43887	C	6 A (CWC)	7.24Y	120.7	0.04	4.27	24.48	17	172	45	97	0.05	0.0	8.137	0.040	11	3	1	28
PL.52814	PL.43888	C	6 A (CWC)	7.24Y	120.7	0.04	4.31	22.93	16	161	42	97	0.05	0.0	8.175	0.038	15	4	2	27
PL.52815	PL.52814	C	#4 ACSR	7.24Y	120.7	0.00	4.31	0.88	1	6	2	95	0.00	0.0	8.219	0.044	6	2	1	1
PL.43889	PL.52815	C	#4 ACSR	7.24Y	120.7	0.00	4.31	0.00	0	0	0	100	0.00	0.0	8.259	0.040	0	0	0	0
PL.52816	PL.52814	C	6 A (CWC)	7.24Y	120.6	0.07	4.37	19.92	14	139	37	97	0.07	0.0	8.247	0.072	0	0	0	24
PL.43570	PL.52816	C	#4 ACSR	7.24Y	120.6	0.00	4.37	0.82	1	6	2	95	0.00	0.0	8.278	0.031	6	2	1	1
PL.52233	PL.52816	C	#1/0 ACSR	7.24Y	120.6	0.00	4.37	1.05	0	7	2	96	0.00	0.0	8.273	0.026	7	2	1	1
PL.43890	PL.52816	C	6 A (CWC)	7.23Y	120.5	0.09	4.47	18.05	13	126	33	97	0.09	0.1	8.358	0.111	0	0	0	22
PL.44194	PL.43890	C	6 A (CWC)	7.23Y	120.5	0.07	4.54	13.72	10	96	25	97	0.05	0.1	8.480	0.122	11	3	2	17
PL.44179	PL.44194	C	#2 ACSR	7.23Y	120.5	0.00	4.54	12.17	7	85	22	97	0.00	0.0	8.485	0.006	0	0	0	15
PD.6895	PL.44179	C	40QA	7.23Y	120.5	0.00	4.54	12.17	30	85	22	97	0.00	0.0	8.485	0.006	0	0	0	15
PL.44180	PD.6895	C	#2 ACSR	7.23Y	120.4	0.02	4.56	12.17	7	85	22	97	0.01	0.0	8.536	0.051	4	1	1	15
PL.44181	PL.44180	C	#2 ACSR	7.22Y	120.4	0.04	4.60	11.56	7	81	21	97	0.03	0.0	8.653	0.117	0	0	0	14
PL.59887	PL.44181	C	#2 ACSR	7.22Y	120.4	0.03	4.63	10.69	6	75	20	97	0.02	0.0	8.761	0.108	16	4	2	12
PL.59888	PL.59887	C	#2 ACSR	7.22Y	120.3	0.03	4.67	8.36	5	58	15	97	0.01	0.0	8.883	0.123	0	0	0	10
PL.52218	PL.59888	C	#2 ACSR	7.22Y	120.3	0.00	4.67	1.71	1	12	3	97	0.00	0.0	8.998	0.115	12	3	2	2
PL.63162	PL.59888	C	#2 ACSR	7.22Y	120.3	0.02	4.68	4.70	3	33	9	96	0.00	0.0	9.010	0.127	0	0	0	5
PL.63164	PL.63162	C	6 A (CWC)	7.22Y	120.3	0.02	4.70	4.69	3	33	9	96	0.00	0.0	9.091	0.080	8	2	1	4
PL.64706	PL.63164	C	#1/0 ACSR	7.22Y	120.3	0.00	4.70	1.82	1	13	3	97	0.00	0.0	9.124	0.033	13	3	1	1
PL.63165	PL.63164	C	6 A (CWC)	7.22Y	120.3	0.00	4.70	1.70	1	12	3	97	0.00	0.0	9.111	0.021	0	0	0	2
PL.63163	PL.63165	C	6 A (CWC)	7.22Y	120.3	0.01	4.71	1.70	1	12	3	97	0.00	0.0	9.193	0.082	3	1	1	2
PL.44650	PL.63163	C	6 A (CWC)	7.22Y	120.3	0.00	4.71	1.32	1	9	2	98	0.00	0.0	9.311	0.118	9	2	1	1
PL.64425	PL.63162	C	#2 ACSR	7.22Y	120.3	0.00	4.68	0.01	0	0	0	100	0.00	0.0	9.396	0.386	0	0	0	1
PL.64424	PL.64425	C	6 A (CWC)	7.22Y	120.3	0.00	4.68	0.01	0	0	0	100	0.00	0.0	9.495	0.099	0	0	1	1
PL.64423	PL.64425	C	#2 ACSR	7.22Y	120.3	0.00	4.68	0.00	0	0	0	100	0.00	0.0	9.438	0.042	0	0	0	0
PL.52216	PL.59888	C	6 A (CWC)	7.22Y	120.3	0.01	4.67	1.95	1	14	4	96	0.00	0.0	8.983	0.100	0	0	1	3
PL.52217	PL.52216	C	6 A (CWC)	7.22Y	120.3	0.01	4.68	1.95	1	14	4	96	0.00	0.0	9.077	0.094	8	2	1	2
PL.44649	PL.52217	C	6 A (CWC)	7.22Y	120.3	0.00	4.68	0.86	1	6	2	95	0.00	0.0	9.148	0.071	6	2	1	1
PL.44182	PL.44181	C	#4 ACSR	7.22Y	120.4	0.00	4.61	0.87	1	6	2	95	0.00	0.0	8.771	0.118	0	0	0	2

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Balanced Voltage Drop Report
Source: Maplesville

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.44187	PL.44182	C	#4 ACSR	7.22Y	120.4	0.00	4.61	0.04	0	0	0	100	0.00	0.0	8.827	0.057	0	0	1	1
PL.44183	PL.44182	C	#4 ACSR	7.22Y	120.4	0.00	4.61	0.83	1	6	2	95	0.00	0.0	8.824	0.054	6	2	1	1
PL.43891	PL.43890	C	6 A (CWC)	7.23Y	120.5	0.01	4.47	4.33	3	30	8	97	0.00	0.0	8.413	0.056	9	2	2	5
PL.43391	PL.43891	C	6 A (CWC)	7.23Y	120.5	0.00	4.48	1.57	1	11	3	96	0.00	0.0	8.456	0.043	11	3	1	1
PL.44178	PL.43891	C	#4 ACSR	7.23Y	120.5	0.00	4.48	1.45	1	10	3	96	0.00	0.0	8.495	0.082	10	3	2	2
PL.44822	PL.44819	C	6 A (CWC)	7.26Y	121.1	0.01	3.95	1.81	1	13	3	97	0.00	0.0	7.949	0.085	5	1	1	3
PL.52235	PL.44822	C	6 A (CWC)	7.26Y	121.0	0.01	3.96	1.15	1	8	2	97	0.00	0.0	8.240	0.291	8	2	2	2
PL.52234	PL.44326	C	#2 ACSR	7.27Y	121.2	0.00	3.82	0.00	0	0	0	100	0.00	0.0	7.794	0.015	0	0	0	0
PL.44257	PL.44817	C	#2 ACSR	7.31Y	121.8	0.00	3.18	2.88	2	20	5	97	0.00	0.0	7.482	0.046	20	5	2	2
PL.58516	PL.58519	C	6 A (CWC)	7.37Y	122.8	0.00	2.15	0.00	0	0	0	100	0.00	0.0	7.169	0.178	0	0	0	0
PL.44195	PL.44816	C	6 A (CWC)	7.41Y	123.4	0.00	1.55	1.19	1	9	2	98	0.00	0.0	6.833	0.101	9	2	1	1
PL.58514	PL.44816	A	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.91	1	7	2	96	0.00	0.0	6.735	0.003	0	0	0	3
PD.8703	PL.58514	A	20T	7.41Y	123.5	0.00	1.55	0.91	0	7	2	96	0.00	0.0	6.735	0.003	0	0	0	3
PL.58515	PD.8703	A	6 A (CWC)	7.41Y	123.4	0.01	1.56	0.91	1	7	2	96	0.00	0.0	6.903	0.169	0	0	1	3
PL.58513	PL.58515	A	6 A (CWC)	7.41Y	123.4	0.00	1.56	0.86	1	6	2	95	0.00	0.0	6.924	0.020	3	1	1	2
PL.63156	PL.58513	A	#1/0 ACSR	7.41Y	123.4	0.00	1.56	0.40	0	3	1	95	0.00	0.0	6.989	0.065	3	1	1	1
PL.44813	PL.44812	C	6 A (CWC)	7.41Y	123.5	0.00	1.50	1.40	1	10	3	96	0.00	0.0	6.495	0.006	0	0	0	1
PD.6896	PL.44813	C	40QA	7.41Y	123.5	0.00	1.50	1.40	4	10	3	96	0.00	0.0	6.495	0.006	0	0	0	1
PL.44814	PD.6896	C	6 A (CWC)	7.41Y	123.5	0.01	1.50	1.40	1	10	3	96	0.00	0.0	6.713	0.217	10	3	1	1
PL.63802	PL.63800	A	#1/0 ACSR	7.42Y	123.6	0.00	1.37	2.34	1	17	4	97	0.00	0.0	6.176	0.057	17	4	1	1
PL.44243	PL.44242	A	6 A (CWC)	7.43Y	123.8	0.00	1.24	0.25	0	2	0	100	0.00	0.0	5.889	0.006	0	0	0	1
PD.6862	PL.44243	A	40QA	7.43Y	123.8	0.00	1.24	0.25	1	2	0	100	0.00	0.0	5.889	0.006	0	0	0	1
PL.44246	PD.6862	A	6 A (CWC)	7.43Y	123.8	0.00	1.24	0.25	0	2	0	100	0.00	0.0	5.926	0.036	2	0	1	1
PL.44247	PL.44246	A	6 A (CWC)	7.43Y	123.8	0.00	1.24	0.00	0	0	0	100	0.00	0.0	6.123	0.198	0	0	0	0
PL.44244	PL.44242	A	6 A (CWC)	7.43Y	123.8	0.00	1.24	0.00	0	0	0	100	0.00	0.0	5.949	0.065	0	0	0	0
PL.44245	PL.44244	A	6 A (CWC)	7.43Y	123.8	0.00	1.24	0.00	0	0	0	100	0.00	0.0	6.013	0.064	0	0	0	0
PL.43771	PL.52657	ABC	#2 ACSR	7.42Y	123.7	0.04	1.26	23.89	14	514	137	97	0.14	0.0	5.899	0.063	17	4	2	87
PL.43772	PL.43771	ABC	#2 ACSR	7.42Y	123.7	0.03	1.28	23.11	13	497	133	97	0.10	0.0	5.945	0.047	0	0	0	85
PL.42965	PL.43772	ABC	#2 ACSR	7.42Y	123.7	0.03	1.31	23.11	13	497	133	97	0.12	0.0	5.999	0.054	0	0	2	85
PL.42966	PL.42965	ABC	#2 ACSR	7.41Y	123.6	0.11	1.43	23.10	13	497	133	97	0.42	0.1	6.199	0.200	25	7	2	83
PL.42968	PL.42966	C	#4 ACSR	7.41Y	123.6	0.00	1.43	3.27	3	23	6	97	0.00	0.0	6.205	0.006	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: Maplesville

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.6861	PL.42968	C	40QA	7.41Y	123.6	0.00	1.43	3.27	8	23	6	97	0.00	0.0	6.205	0.006	0	0	0	4
PL.43025	PD.6861	C	#4 ACSR	7.41Y	123.6	0.01	1.44	3.27	3	23	6	97	0.00	0.0	6.258	0.053	4	1	2	4
PL.43026	PL.43025	C	#4 ACSR	7.41Y	123.6	0.00	1.44	2.68	2	19	5	97	0.00	0.0	6.293	0.034	19	5	2	2
PL.41995	PL.42966	ABC	#2 ACSR	7.41Y	123.5	0.03	1.46	19.88	11	427	114	97	0.10	0.0	6.259	0.060	0	0	0	75
PL.43593	PL.41995	ABC	#2 ACSR	7.41Y	123.5	0.04	1.50	19.51	11	419	112	97	0.13	0.0	6.343	0.084	0	0	0	74
PL.43285	PL.43593	ABC	#2 ACSR	7.41Y	123.5	0.04	1.54	11.56	7	248	67	97	0.07	0.0	6.469	0.126	5	1	2	55
PL.43591	PL.43285	C	#4 ACSR	7.41Y	123.5	0.00	1.54	0.63	0	5	1	98	0.00	0.0	6.528	0.059	5	1	1	1
PL.44023	PL.43285	A	#4 ACSR	7.39Y	123.2	0.30	1.83	33.28	26	238	64	97	0.53	0.2	6.669	0.201	0	0	0	52
PL.44825	PL.44023	A	6 A (CWC)	7.39Y	123.2	0.01	1.84	33.28	24	238	64	97	0.02	0.0	6.675	0.006	0	0	0	52
PD.6827	PL.44825	A	70L	7.39Y	123.2	0.00	1.84	33.28	48	238	64	97	0.00	0.0	6.675	0.006	0	0	0	52
PL.44826	PD.6827	A	6 A (CWC)	7.38Y	123.0	0.13	1.97	33.28	24	238	64	97	0.23	0.1	6.762	0.087	4	1	1	52
PL.44286	PL.44826	A	6 A (CWC)	7.37Y	122.8	0.27	2.24	28.44	20	203	54	97	0.41	0.2	6.972	0.209	0	0	0	44
PL.44287	PL.44286	A	#2 ACSR	7.37Y	122.8	0.00	2.25	1.71	1	12	3	97	0.00	0.0	7.016	0.044	0	0	1	4
PL.41974	PL.44287	A	#2 ACSR	7.36Y	122.7	0.00	2.25	1.70	1	12	3	97	0.00	0.0	7.103	0.088	4	1	2	3
PL.44829	PL.41974	A	#2 ACSR	7.36Y	122.7	0.00	2.25	1.13	1	8	2	97	0.00	0.0	7.154	0.050	8	2	1	1
PL.44830	PL.44286	A	6 A (CWC)	7.36Y	122.6	0.17	2.41	26.73	19	190	51	97	0.24	0.1	7.110	0.138	0	0	0	40
PL.44831	PL.44830	A	6 A (CWC)	7.35Y	122.4	0.14	2.56	24.99	18	178	47	97	0.19	0.1	7.235	0.125	0	0	0	38
PL.44832	PL.44831	A	6 A (CWC)	7.34Y	122.3	0.18	2.73	24.99	18	177	47	97	0.23	0.1	7.389	0.154	0	0	0	38
PL.59702	PL.44832	A	6 A (CWC)	7.33Y	122.2	0.10	2.84	24.03	17	170	45	97	0.13	0.1	7.486	0.097	6	2	3	35
PL.59823	PL.59702	A	6 A (CWC)	7.33Y	122.1	0.02	2.86	23.21	17	164	44	97	0.03	0.0	7.506	0.020	0	0	0	32
PL.59899	PL.59823	A	6 A (CWC)	7.33Y	122.1	0.03	2.88	21.54	15	153	41	97	0.03	0.0	7.532	0.026	5	1	1	31
PL.59900	PL.59899	A	6 A (CWC)	7.33Y	122.1	0.03	2.92	20.81	15	147	39	97	0.04	0.0	7.568	0.035	0	0	0	30
PL.59821	PL.59900	A	6 A (CWC)	7.32Y	122.0	0.10	3.01	20.32	15	144	38	97	0.10	0.1	7.670	0.103	0	0	0	27
PL.43825	PL.59821	A	6 A (CWC)	7.31Y	121.9	0.09	3.11	20.32	15	144	38	97	0.10	0.1	7.773	0.102	0	0	0	27
PL.44265	PL.43825	A	6 A (CWC)	7.31Y	121.8	0.05	3.16	18.01	13	127	34	97	0.05	0.0	7.834	0.061	0	0	0	24
PL.43829	PL.44265	A	6 A (CWC)	7.31Y	121.8	0.02	3.18	18.01	13	127	34	97	0.02	0.0	7.864	0.030	0	0	0	24
PL.43830	PL.43829	A	6 A (CWC)	7.31Y	121.8	0.05	3.23	17.13	12	121	32	97	0.05	0.0	7.929	0.065	0	0	0	23
PL.43831	PL.43830	A	6 A (CWC)	7.30Y	121.7	0.08	3.31	17.13	12	121	32	97	0.07	0.1	8.035	0.106	2	0	1	23
PL.43654	PL.43831	A	#1/0 ACSR	7.29Y	121.5	0.18	3.49	16.87	7	119	32	97	0.14	0.1	8.493	0.458	0	0	0	22
PL.43297	PL.43654	A	#4 ACSR	7.29Y	121.5	0.04	3.53	14.05	11	99	26	97	0.03	0.0	8.557	0.064	0	0	0	20
PL.44167	PL.43297	A	#4 ACSR	7.29Y	121.5	0.00	3.53	0.62	0	4	1	97	0.00	0.0	8.619	0.063	4	1	1	1

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Balanced Voltage Drop Report
Source: Maplesville

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.43298	PL.43297	A	#4 ACSR	7.28Y	121.4	0.07	3.60	13.43	10	95	25	97	0.05	0.1	8.670	0.113	0	0	0	19
PL.43299	PL.43298	A	#4 ACSR	7.28Y	121.4	0.00	3.60	13.35	10	94	25	97	0.00	0.0	8.676	0.006	0	0	0	16
PD.6826	PL.43299	A	100CodeSMo	7.28Y	121.4	0.00	3.60	13.35	0	94	25	97	0.00	0.0	8.676	0.006	0	0	0	16
PL.63198	PD.6826	A	#4 ACSR	7.28Y	121.3	0.08	3.68	13.35	10	94	25	97	0.05	0.1	8.814	0.138	13	3	1	16
PL.63199	PL.63198	A	#4 ACSR	7.28Y	121.3	0.03	3.71	11.50	9	81	21	97	0.02	0.0	8.883	0.070	4	1	1	15
PL.43979	PL.63199	A	#4 ACSR	7.28Y	121.3	0.02	3.73	10.88	8	77	20	97	0.01	0.0	8.929	0.046	14	4	1	14
PL.43836	PL.43979	A	#4 ACSR	7.27Y	121.2	0.03	3.76	8.96	7	63	17	97	0.01	0.0	9.006	0.076	14	4	2	13
PL.43837	PL.43836	A	#4 ACSR	7.27Y	121.2	0.01	3.77	6.92	5	49	13	97	0.00	0.0	9.039	0.034	0	0	0	11
PL.44168	PL.43837	A	#4 ACSR	7.27Y	121.2	0.00	3.77	0.00	0	0	0	100	0.00	0.0	9.125	0.086	0	0	0	0
PL.43838	PL.43837	A	#4 ACSR	7.27Y	121.2	0.02	3.79	6.92	5	49	13	97	0.01	0.0	9.115	0.075	0	0	0	11
PL.43839	PL.43838	A	#4 ACSR	7.27Y	121.2	0.02	3.82	6.92	5	49	13	97	0.01	0.0	9.190	0.075	0	0	0	11
PL.43840	PL.43839	A	#4 ACSR	7.27Y	121.2	0.02	3.84	6.92	5	49	13	97	0.01	0.0	9.257	0.068	0	0	0	11
PL.43841	PL.43840	A	#4 ACSR	7.27Y	121.1	0.02	3.86	6.92	5	49	13	97	0.01	0.0	9.334	0.077	0	0	0	11
PL.43843	PL.43841	A	6 A (CWC)	7.27Y	121.1	0.03	3.89	6.92	5	49	13	97	0.01	0.0	9.438	0.104	13	3	2	11
PL.43844	PL.43843	A	6 A (CWC)	7.27Y	121.1	0.02	3.91	5.13	4	36	10	96	0.01	0.0	9.525	0.086	0	0	0	9
PL.43845	PL.43844	A	6 A (CWC)	7.26Y	121.1	0.04	3.95	5.13	4	36	10	96	0.01	0.0	9.684	0.160	0	0	0	9
PL.43951	PL.43845	A	6 A (CWC)	7.26Y	121.0	0.02	3.97	5.09	4	36	9	97	0.00	0.0	9.763	0.078	0	0	0	8
PL.43952	PL.43951	A	6 A (CWC)	7.26Y	121.0	0.05	4.02	5.09	4	36	9	97	0.01	0.0	9.983	0.220	3	1	1	8
PL.44316	PL.43952	A	6 A (CWC)	7.26Y	121.0	0.02	4.03	4.67	3	33	9	96	0.00	0.0	10.059	0.077	0	0	0	7
PL.43804	PL.44316	A	6 A (CWC)	7.26Y	120.9	0.05	4.08	4.53	3	32	8	97	0.01	0.0	10.309	0.250	2	1	1	6
PL.43960	PL.43804	A	6 A (CWC)	7.25Y	120.9	0.02	4.10	4.21	3	30	8	97	0.00	0.0	10.407	0.098	0	0	0	5
PL.43961	PL.43960	A	6 A (CWC)	7.25Y	120.8	0.13	4.23	4.21	3	30	8	97	0.03	0.1	11.069	0.663	0	0	0	5
PL.64091	PL.43961	A	#1/0 ACSR	7.25Y	120.8	0.00	4.23	1.12	0	8	2	97	0.00	0.0	11.153	0.084	0	0	0	1
PL.64092	PL.64091	A	#1/0 ACSR	7.25Y	120.8	0.00	4.23	1.12	0	8	2	97	0.00	0.0	11.198	0.045	8	2	1	1
PL.43962	PL.43961	A	#4 ACSR	7.24Y	120.7	0.07	4.30	3.09	2	22	6	96	0.01	0.1	11.573	0.503	0	0	0	4
PL.43095	PL.43962	A	#4 ACSR	7.24Y	120.7	0.00	4.30	1.28	1	9	2	98	0.00	0.0	11.720	0.147	9	2	1	1
PL.43963	PL.43962	A	#4 ACSR	7.24Y	120.7	0.00	4.30	1.81	1	13	3	97	0.00	0.0	11.603	0.031	6	2	1	3
PL.44069	PL.43963	A	#4 ACSR	7.24Y	120.7	0.00	4.30	0.96	1	7	2	96	0.00	0.0	11.668	0.065	0	0	0	2
PL.44070	PL.44069	A	#4 ACSR	7.24Y	120.7	0.00	4.30	0.02	0	0	0	100	0.00	0.0	11.835	0.167	0	0	0	1
PL.44071	PL.44070	A	6 A (CWC)	7.24Y	120.7	0.00	4.30	0.02	0	0	0	100	0.00	0.0	12.071	0.236	0	0	1	1
PL.44072	PL.44071	A	6 A (CWC)	7.24Y	120.7	0.00	4.30	0.00	0	0	0	100	0.00	0.0	13.081	1.010	0	0	0	0

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Balanced Voltage Drop Report
Source: Maplesville

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.44073	PL.44072	A	6 A (CWC)	7.24Y	120.7	0.00	4.30	0.00	0	0	0	100	0.00	0.0	13.150	0.069	0	0	0	0
PL.43409	PL.44070	A	6 A (CWC)	7.24Y	120.7	0.00	4.30	0.00	0	0	0	100	0.00	0.0	12.017	0.182	0	0	0	0
PL.43566	PL.44069	A	#4 ACSR	7.24Y	120.7	0.00	4.30	0.94	1	7	2	96	0.00	0.0	11.762	0.094	7	2	1	1
PL.43953	PL.44316	A	6 A (CWC)	7.26Y	121.0	0.00	4.03	0.14	0	1	0	100	0.00	0.0	10.116	0.057	0	0	0	1
PL.43954	PL.43953	A	6 A (CWC)	7.26Y	121.0	0.00	4.03	0.14	0	1	0	100	0.00	0.0	10.433	0.317	0	0	0	1
PL.44338	PL.43954	A	#4 ACSR	7.26Y	121.0	0.00	4.04	0.14	0	1	0	100	0.00	0.0	10.676	0.242	0	0	0	1
PL.43956	PL.44338	A	#4 ACSR	7.26Y	121.0	0.00	4.04	0.14	0	1	0	100	0.00	0.0	10.722	0.046	0	0	0	1
PL.43957	PL.43956	A	#4 ACSR	7.26Y	121.0	0.00	4.04	0.14	0	1	0	100	0.00	0.0	10.784	0.063	1	0	1	1
PL.43955	PL.43954	A	6 A (CWC)	7.26Y	121.0	0.00	4.03	0.00	0	0	0	100	0.00	0.0	11.130	0.697	0	0	0	0
PL.43958	PL.43955	A	6 A (CWC)	7.26Y	121.0	0.00	4.03	0.00	0	0	0	100	0.00	0.0	11.154	0.024	0	0	0	0
PL.43959	PL.43958	A	6 A (CWC)	7.26Y	121.0	0.00	4.03	0.00	0	0	0	100	0.00	0.0	11.280	0.126	0	0	0	0
PL.43279	PL.43958	A	#4 ACSR	7.26Y	121.0	0.00	4.03	0.00	0	0	0	100	0.00	0.0	11.451	0.296	0	0	0	0
PL.43846	PL.43845	A	#4 ACSR	7.26Y	121.1	0.00	3.95	0.04	0	0	0	100	0.00	0.0	9.706	0.021	0	0	1	1
PL.44839	PL.43846	A	#4 ACSR	7.26Y	121.1	0.00	3.95	0.00	0	0	0	100	0.00	0.0	9.848	0.142	0	0	0	0
PL.43950	PL.44839	A	#4 ACSR	7.26Y	121.1	0.00	3.95	0.00	0	0	0	100	0.00	0.0	9.884	0.037	0	0	0	0
PL.43842	PL.43841	A	#4 ACSR	7.27Y	121.1	0.00	3.86	0.00	0	0	0	100	0.00	0.0	9.340	0.006	0	0	0	0
PD.6958	PL.43842	A	25QA	7.27Y	121.1	0.00	3.86	0.00	0	0	0	100	0.00	0.0	9.340	0.006	0	0	0	0
PL.59886	PD.6958	A	#4 ACSR	7.27Y	121.1	0.00	3.86	0.00	0	0	0	100	0.00	0.0	9.434	0.094	0	0	0	0
PL.59885	PL.59886	A	#2 ACSR	7.27Y	121.1	0.00	3.86	0.00	0	0	0	100	0.00	0.0	9.458	0.024	0	0	0	0
PL.43598	PL.43839	A	#4 ACSR	7.27Y	121.2	0.00	3.82	0.00	0	0	0	100	0.00	0.0	9.256	0.066	0	0	0	0
PL.43977	PL.43298	A	#2 ACSR	7.28Y	121.4	0.00	3.60	0.08	0	1	0	100	0.00	0.0	8.717	0.047	1	0	1	3
PL.43978	PL.43977	A	#2 ACSR	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	8.775	0.058	0	0	2	2
PL.43832	PL.43654	A	#4 ACSR	7.29Y	121.5	0.01	3.50	2.83	2	20	5	97	0.00	0.0	8.545	0.052	0	0	0	2
PL.43833	PL.43832	A	#4 ACSR	7.29Y	121.5	0.04	3.54	2.83	2	20	5	97	0.01	0.0	8.850	0.304	0	0	0	2
PL.44204	PL.43833	A	#4 ACSR	7.29Y	121.5	0.00	3.54	0.00	0	0	0	100	0.00	0.0	9.028	0.178	0	0	0	0
PL.43834	PL.43833	A	#4 ACSR	7.29Y	121.4	0.01	3.55	2.83	2	20	5	97	0.00	0.0	8.957	0.108	0	0	0	2
PL.44158	PL.43834	A	#4 ACSR	7.29Y	121.4	0.00	3.55	1.04	1	7	2	96	0.00	0.0	9.023	0.066	7	2	1	1
PL.43835	PL.43834	A	#4 ACSR	7.29Y	121.4	0.02	3.57	1.79	1	13	3	97	0.00	0.0	9.417	0.460	13	3	1	1
PL.64407	PL.43835	A	#4 ACSR	7.29Y	121.4	0.00	3.57	0.00	0	0	0	100	0.00	0.0	9.448	0.031	0	0	0	0
PL.64408	PL.64407	A	#4 ACSR	7.29Y	121.4	0.00	3.57	0.00	0	0	0	100	0.00	0.0	9.647	0.198	0	0	0	0
PL.44319	PL.43832	A	#4 ACSR	7.29Y	121.5	0.00	3.50	0.00	0	0	0	100	0.00	0.0	8.764	0.218	0	0	0	0

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Balanced Voltage Drop Report
Source: Maplesville

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.44320	PL.44319	A	#4 ACSR	7.29Y	121.5	0.00	3.50	0.00	0	0	0	100	0.00	0.0	8.922	0.158	0	0	0	0
PL.42969	PL.43829	A	6 A (CWC)	7.31Y	121.8	0.00	3.18	0.88	1	6	2	95	0.00	0.0	7.940	0.076	6	2	1	1
PL.43388	PL.44265	A	6 A (CWC)	7.31Y	121.8	0.00	3.16	0.00	0	0	0	100	0.00	0.0	7.974	0.140	0	0	0	0
PL.43826	PL.43825	A	#4 ACSR	7.31Y	121.9	0.04	3.14	2.31	2	16	4	97	0.00	0.0	8.156	0.383	3	1	1	3
PL.43827	PL.43826	A	#4 ACSR	7.31Y	121.9	0.01	3.15	1.93	1	14	4	96	0.00	0.0	8.254	0.097	11	3	1	2
PL.44216	PL.43827	A	6 A (CWC)	7.31Y	121.9	0.00	3.15	0.41	0	3	1	95	0.00	0.0	8.318	0.064	3	1	1	1
PL.43828	PL.43827	A	#4 ACSR	7.31Y	121.9	0.00	3.15	0.00	0	0	0	100	0.00	0.0	8.419	0.166	0	0	0	0
PL.42000	PL.43826	A	#4 ACSR	7.31Y	121.9	0.00	3.14	0.00	0	0	0	100	0.00	0.0	8.287	0.130	0	0	0	0
PL.59820	PL.59900	A	#4 ACSR	7.32Y	122.1	0.00	2.92	0.49	0	3	1	95	0.00	0.0	7.635	0.067	1	0	2	3
PL.44838	PL.59820	A	#4 ACSR	7.32Y	122.1	0.00	2.92	0.40	0	3	1	95	0.00	0.0	7.827	0.192	3	1	1	1
PL.59822	PL.59823	A	#1/0 ACSR	7.33Y	122.1	0.00	2.86	1.67	1	12	3	97	0.00	0.0	7.544	0.038	12	3	1	1
PL.44833	PL.44832	A	6 A (CWC)	7.34Y	122.3	0.00	2.73	0.96	1	7	2	96	0.00	0.0	7.438	0.049	0	0	1	3
PL.44834	PL.44833	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.91	1	6	2	95	0.00	0.0	7.492	0.055	2	1	1	2
PL.44835	PL.44834	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.58	0	4	1	97	0.00	0.0	7.555	0.062	4	1	1	1
PL.44836	PL.44835	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.00	0	0	0	100	0.00	0.0	7.591	0.036	0	0	0	0
PL.44837	PL.44836	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.00	0	0	0	100	0.00	0.0	7.662	0.071	0	0	0	0
PL.44189	PL.44830	A	6 A (CWC)	7.36Y	122.6	0.00	2.41	0.47	0	3	1	95	0.00	0.0	7.156	0.046	3	1	1	1
PL.43662	PL.44830	A	6 A (CWC)	7.36Y	122.6	0.00	2.41	1.27	1	9	2	98	0.00	0.0	7.167	0.057	9	2	1	1
PL.44827	PL.44826	A	6 A (CWC)	7.38Y	123.0	0.02	1.99	3.99	3	28	8	96	0.00	0.0	6.856	0.094	1	0	1	6
PL.43661	PL.44827	A	6 A (CWC)	7.38Y	123.0	0.00	1.99	2.41	2	17	5	96	0.00	0.0	6.901	0.044	17	5	2	2
PL.44828	PL.44827	A	6 A (CWC)	7.38Y	123.0	0.00	1.99	1.44	1	10	3	96	0.00	0.0	6.888	0.032	2	1	1	3
PL.63169	PL.44828	A	6 A (CWC)	7.38Y	123.0	0.00	2.00	1.18	1	8	2	97	0.00	0.0	6.995	0.106	7	2	1	2
PL.63170	PL.63169	A	6 A (CWC)	7.38Y	123.0	0.00	2.00	0.22	0	2	0	100	0.00	0.0	7.028	0.033	2	0	1	1
PL.43081	PL.44828	A	6 A (CWC)	7.38Y	123.0	0.00	1.99	0.00	0	0	0	100	0.00	0.0	6.952	0.064	0	0	0	0
PL.44275	PL.44826	A	#4 ACSR	7.38Y	123.0	0.00	1.97	0.32	0	2	1	89	0.00	0.0	6.810	0.048	2	1	1	1
PL.43981	PL.43593	B	#2 ACSR	7.41Y	123.5	0.02	1.52	23.85	14	171	45	97	0.02	0.0	6.369	0.026	0	0	0	19
PL.61232	PL.43981	B	6 A (CWC)	7.41Y	123.5	0.00	1.52	23.85	17	171	45	97	0.00	0.0	6.372	0.003	0	0	0	19
PD.9109	PL.61232	B	35L	7.41Y	123.5	0.00	1.52	23.85	68	171	45	97	0.00	0.0	6.372	0.003	0	0	0	19
PL.61233	PD.9109	B	6 A (CWC)	7.40Y	123.4	0.13	1.65	23.85	17	171	45	97	0.16	0.1	6.488	0.116	0	0	0	19
PL.61230	PL.61233	B	6 A (CWC)	7.40Y	123.3	0.07	1.72	21.47	15	154	41	97	0.08	0.1	6.568	0.080	16	4	1	18
PL.59855	PL.61230	B	#1/0 ACSR	7.40Y	123.3	0.00	1.72	1.30	1	9	2	98	0.00	0.0	6.622	0.053	9	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: Maplesville

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.59854	PL.61230	B	6 A (CWC)	7.39Y	123.2	0.04	1.77	17.93	13	128	34	97	0.04	0.0	6.623	0.054	0	0	0	16
PL.44651	PL.59854	B	6 A (CWC)	7.39Y	123.2	0.08	1.85	17.93	13	128	34	97	0.08	0.1	6.726	0.104	8	2	1	16
PL.52212	PL.44651	B	6 A (CWC)	7.38Y	122.9	0.20	2.05	16.79	12	120	32	97	0.18	0.2	6.992	0.265	0	0	0	15
PL.52213	PL.52212	B	6 A (CWC)	7.38Y	122.9	0.01	2.07	2.54	2	18	5	96	0.00	0.0	7.112	0.120	0	0	0	4
PL.44654	PL.52213	B	6 A (CWC)	7.37Y	122.9	0.03	2.10	2.54	2	18	5	96	0.00	0.0	7.469	0.357	8	2	1	4
PL.44318	PL.44654	B	#2 ACSR	7.37Y	122.9	0.00	2.10	0.38	0	3	1	95	0.00	0.0	7.552	0.084	0	0	0	1
PL.44657	PL.44318	B	#2 ACSR	7.37Y	122.9	0.00	2.10	0.38	0	3	1	95	0.00	0.0	7.650	0.097	0	0	0	1
PL.44192	PL.44657	B	#2 ACSR	7.37Y	122.9	0.00	2.10	0.38	0	3	1	95	0.00	0.0	7.868	0.218	3	1	1	1
PL.44823	PL.44657	B	#2 ACSR	7.37Y	122.9	0.00	2.10	0.00	0	0	0	100	0.00	0.0	7.745	0.095	0	0	0	0
PL.43973	PL.44823	B	#2 ACSR	7.37Y	122.9	0.00	2.10	0.00	0	0	0	100	0.00	0.0	7.831	0.086	0	0	0	0
PL.44824	PL.44823	B	#2 ACSR	7.37Y	122.9	0.00	2.10	0.00	0	0	0	100	0.00	0.0	7.867	0.122	0	0	0	0
PL.44655	PL.44654	B	#4 ACSR	7.37Y	122.9	0.00	2.10	1.07	1	8	2	97	0.00	0.0	7.595	0.127	8	2	2	2
PL.44656	PL.44655	B	#4 ACSR	7.37Y	122.9	0.00	2.10	0.00	0	0	0	100	0.00	0.0	7.783	0.188	0	0	0	0
PL.59468	PL.52212	B	6 A (CWC)	7.37Y	122.9	0.09	2.14	14.25	10	102	27	97	0.06	0.1	7.123	0.132	0	0	0	11
PL.59470	PL.59468	B	6 A (CWC)	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	7.213	0.090	0	0	0	0
PL.59469	PL.59468	B	6 A (CWC)	7.37Y	122.8	0.09	2.22	14.25	10	102	27	97	0.07	0.1	7.257	0.133	0	0	0	11
PL.63179	PL.59469	B	6 A (CWC)	7.36Y	122.7	0.08	2.30	9.77	7	70	18	97	0.04	0.1	7.428	0.171	0	0	0	5
PL.63181	PL.63179	B	#1/0 ACSR	7.36Y	122.7	0.00	2.31	1.90	1	14	4	96	0.00	0.0	7.618	0.190	14	4	1	1
PL.66114	PL.63179	B	6 A (CWC)	7.36Y	122.7	0.02	2.32	7.86	6	56	15	97	0.01	0.0	7.473	0.045	0	0	0	4
PL.66115	PL.66114	B	6 A (CWC)	7.36Y	122.6	0.04	2.35	7.86	6	56	15	97	0.01	0.0	7.590	0.117	15	4	1	4
PL.52663	PL.66115	B	6 A (CWC)	7.35Y	122.6	0.06	2.42	5.76	4	41	11	97	0.02	0.0	7.833	0.243	0	0	0	3
PL.52662	PL.52663	B	6 A (CWC)	7.35Y	122.6	0.01	2.43	4.59	3	33	9	96	0.00	0.0	7.915	0.082	14	4	1	2
PL.44653	PL.52662	B	6 A (CWC)	7.35Y	122.6	0.00	2.43	2.58	2	18	5	96	0.00	0.0	7.965	0.051	18	5	1	1
PL.52661	PL.52663	B	#4 ACSR	7.35Y	122.6	0.00	2.42	1.18	1	8	2	97	0.00	0.0	7.868	0.035	8	2	1	1
PL.64531	PL.59469	B	#4 ACSR	7.36Y	122.7	0.04	2.26	4.48	3	32	8	97	0.01	0.0	7.436	0.179	0	0	0	6
PL.64532	PL.64531	B	#4 ACSR	7.36Y	122.7	0.03	2.29	3.28	3	23	6	97	0.00	0.0	7.751	0.315	14	4	2	5
PL.52215	PL.64532	B	#4 ACSR	7.36Y	122.7	0.01	2.30	1.39	1	10	3	96	0.00	0.0	7.837	0.086	1	0	2	3
PL.44652	PL.52215	B	#4 ACSR	7.36Y	122.7	0.00	2.30	1.31	1	9	2	98	0.00	0.0	7.876	0.039	9	2	1	1
PL.52214	PL.64532	B	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	7.816	0.064	0	0	0	0
PL.64533	PL.64531	B	#1/0 ACSR	7.36Y	122.7	0.00	2.26	1.19	1	9	2	98	0.00	0.0	7.456	0.020	9	2	1	1
PL.61231	PL.61233	B	1/0 AL URD	7.40Y	123.3	0.00	1.65	2.38	1	17	4	97	0.00	0.0	6.594	0.106	17	4	1	1

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

Balanced Voltage Drop Report
Source: Maplesville

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.43594	PL.41995	A	#4 ACSR	7.41Y	123.5	0.00	1.46	1.11	1	8	2	97	0.00	0.0	6.265	0.006	0	0	0	1
PD.6959	PL.43594	A	40QA	7.41Y	123.5	0.00	1.46	1.11	3	8	2	97	0.00	0.0	6.265	0.006	0	0	0	1
PL.43595	PD.6959	A	#4 ACSR	7.41Y	123.5	0.00	1.46	1.11	1	8	2	97	0.00	0.0	6.294	0.030	8	2	1	1
PL.42967	PL.42966	C	#4 ACSR	7.41Y	123.6	0.00	1.43	2.88	2	21	5	97	0.00	0.0	6.205	0.006	0	0	0	2
PD.6906	PL.42967	C	40QA	7.41Y	123.6	0.00	1.43	2.88	7	21	5	97	0.00	0.0	6.205	0.006	0	0	0	2
PL.43023	PD.6906	C	#4 ACSR	7.41Y	123.6	0.01	1.44	2.88	2	21	5	97	0.00	0.0	6.321	0.115	14	4	1	2
PL.43024	PL.43023	C	#4 ACSR	7.41Y	123.6	0.00	1.44	0.90	1	6	2	95	0.00	0.0	6.364	0.044	6	2	1	1
CP.100	PL.52656	ABC	Cap (300)	7.43Y	123.9	0.00	1.11	0.00	0	0	0	100	0.00	0.0	5.704	0.044	0	0	0	0
PL.42931	PL.44804	C	#4 ACSR	7.45Y	124.2	0.00	0.84	0.00	0	0	0	100	0.00	0.0	5.427	0.044	0	0	0	0
PL.44802	PL.44801	C	#4 ACSR	7.45Y	124.2	0.00	0.77	2.13	2	15	4	97	0.00	0.0	5.307	0.006	0	0	0	1
PD.6866	PL.44802	C	40QA	7.45Y	124.2	0.00	0.77	2.13	5	15	4	97	0.00	0.0	5.307	0.006	0	0	0	1
PL.44803	PD.6866	C	#4 ACSR	7.45Y	124.2	0.00	0.77	2.13	2	15	4	97	0.00	0.0	5.328	0.022	15	4	1	1
PL.44185	PL.44184	A	#2 ACSR	7.49Y	124.8	0.00	0.18	0.26	0	2	0	100	0.00	0.0	4.644	0.006	0	0	0	1
PD.6942	PL.44185	A	40QA	7.49Y	124.8	0.00	0.18	0.26	1	2	0	100	0.00	0.0	4.644	0.006	0	0	0	1
PL.44186	PD.6942	A	#2 ACSR	7.49Y	124.8	0.00	0.18	0.26	0	2	0	100	0.00	0.0	4.717	0.073	2	0	1	1
PL.43513	PL.44644	B	6 A (CWC)	7.50Y	125.0	0.00	0.03	0.42	0	3	1	95	0.00	0.0	4.476	0.006	0	0	0	1
PD.6933	PL.43513	B	40QA	7.50Y	125.0	0.00	0.03	0.42	1	3	1	95	0.00	0.0	4.476	0.006	0	0	0	1
PL.43514	PD.6933	B	6 A (CWC)	7.50Y	125.0	0.00	0.03	0.42	0	3	1	95	0.00	0.0	4.532	0.056	3	1	1	1
PL.62597	PL.62598	A	#4 ACSR	7.51Y	125.1	0.01	-0.13	2.81	2	20	5	97	0.00	0.0	4.387	0.084	20	5	4	4
PL.62599	PL.62598	A	#4 ACSR	7.51Y	125.1	0.00	-0.14	6.65	5	48	13	97	0.00	0.0	4.309	0.006	0	0	0	5
PD.6898	PL.62599	A	40QA	7.51Y	125.1	0.00	-0.14	6.65	17	48	13	97	0.00	0.0	4.309	0.006	0	0	0	5
PL.44639	PD.6898	A	#4 ACSR	7.51Y	125.1	0.01	-0.12	6.65	5	48	13	97	0.00	0.0	4.372	0.063	27	7	2	5
PL.44640	PL.44639	A	#4 ACSR	7.51Y	125.1	0.00	-0.12	2.99	2	22	6	96	0.00	0.0	4.408	0.037	11	3	1	3
PL.44641	PL.44640	A	#4 ACSR	7.51Y	125.1	0.00	-0.12	1.52	1	11	3	96	0.00	0.0	4.484	0.075	7	2	1	2
PL.44642	PL.44641	A	#4 ACSR	7.51Y	125.1	0.00	-0.12	0.59	0	4	1	97	0.00	0.0	4.521	0.037	4	1	1	1
PL.44643	PL.44642	A	#4 ACSR	7.51Y	125.1	0.00	-0.12	0.00	0	0	0	100	0.00	0.0	4.562	0.041	0	0	0	0
PL.44151	PL.44789	A	6 A (CWC)	7.52Y	125.4	0.00	-0.41	0.62	0	4	1	97	0.00	0.0	4.048	0.006	0	0	0	1
PD.6935	PL.44151	A	40QA	7.52Y	125.4	0.00	-0.41	0.62	2	4	1	97	0.00	0.0	4.048	0.006	0	0	0	1
PL.44152	PD.6935	A	6 A (CWC)	7.52Y	125.4	0.00	-0.41	0.62	0	4	1	97	0.00	0.0	4.077	0.029	4	1	1	1
PL.42961	PL.43859	ABC	#1/0 ACSR	7.13Y	118.8	0.00	6.22	7.49	3	154	44	96	0.00	0.0	3.683	0.020	0	0	0	21
PL.43860	PL.42961	ABC	#1/0 ACSR	7.13Y	118.8	0.00	6.22	7.49	3	154	44	96	0.00	0.0	3.689	0.006	0	0	0	21

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Balanced Voltage Drop Report
Source: Maplesville

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.6822	PL.43860	ABC	50L	7.13Y	118.8	0.00	6.22	7.49	15	154	44	96	0.00	0.0	3.689	0.006	0	0	0	21
PL.43861	PD.6822	ABC	#1/0 ACSR	7.13Y	118.8	0.01	6.23	7.49	3	154	44	96	0.01	0.0	3.753	0.064	0	0	0	21
PL.43862	PL.43861	ABC	#1/0 ACSR	7.13Y	118.8	0.01	6.25	6.40	3	131	38	96	0.01	0.0	3.864	0.111	0	0	0	19
PL.43863	PL.43862	A	#4 ACSR	7.13Y	118.8	0.00	6.25	2.19	2	15	4	97	0.00	0.0	3.869	0.006	0	0	0	3
PD.6899	PL.43863	A	20T	7.13Y	118.8	0.00	6.25	2.19	0	15	4	97	0.00	0.0	3.869	0.006	0	0	0	3
PL.43864	PD.6899	A	#4 ACSR	7.12Y	118.7	0.00	6.25	2.19	2	15	4	97	0.00	0.0	3.922	0.053	5	1	2	3
PL.63197	PL.43864	A	#1/0 ACSR	7.12Y	118.7	0.00	6.25	1.42	1	10	3	96	0.00	0.0	3.960	0.038	10	3	1	1
PL.43865	PL.43862	ABC	#1/0 ACSR	7.12Y	118.7	0.00	6.25	5.67	2	116	34	96	0.00	0.0	3.909	0.045	0	0	0	16
PL.43866	PL.43865	C	#2 ACSR	7.12Y	118.7	0.00	6.25	2.08	1	14	4	96	0.00	0.0	3.915	0.006	0	0	0	1
PD.6729	PL.43866	C	20T	7.12Y	118.7	0.00	6.25	2.08	0	14	4	96	0.00	0.0	3.915	0.006	0	0	0	1
PL.44851	PD.6729	C	#2 ACSR	7.12Y	118.7	0.00	6.25	2.08	1	14	4	96	0.00	0.0	3.945	0.031	14	4	1	1
PL.44852	PL.43865	ABC	#1/0 ACSR	7.12Y	118.7	0.00	6.25	4.98	2	102	30	96	0.00	0.0	3.955	0.046	5	1	3	15
PL.44853	PL.44852	ABC	#1/0 ACSR	7.12Y	118.7	0.01	6.26	4.72	2	97	29	96	0.00	0.0	4.029	0.074	0	0	0	12
PL.62839	PL.44853	ABC	#1/0 ACSR	7.12Y	118.7	0.01	6.27	4.64	2	95	28	96	0.01	0.0	4.171	0.141	0	0	0	11
PL.62411	PL.62839	ABC	#1/0 ACSR	7.12Y	118.7	0.01	6.28	4.64	2	95	28	96	0.01	0.0	4.302	0.132	0	0	0	11
PL.62410	PL.62411	ABC	#1/0 ACSR	7.12Y	118.7	0.02	6.30	4.64	2	95	28	96	0.01	0.0	4.501	0.199	0	0	0	11
PL.62414	PL.62410	ABC	6 A (CWC)	7.12Y	118.7	0.03	6.34	2.87	2	58	19	95	0.02	0.0	4.834	0.333	8	2	2	7
PL.62842	PL.62414	ABC	6 A (CWC)	7.12Y	118.7	0.00	6.34	2.46	2	50	16	95	0.00	0.0	4.860	0.026	8	2	3	5
PL.44774	PL.62842	ABC	6 A (CWC)	7.12Y	118.7	0.00	6.34	2.05	1	41	14	95	0.00	0.0	4.883	0.023	41	14	2	2
PL.62413	PL.62410	ABC	6 A (CWC)	7.12Y	118.7	0.00	6.30	1.01	1	21	5	97	0.00	0.0	4.521	0.020	0	0	0	3
PL.62843	PL.62413	C	#4/0 ACSR	7.12Y	118.7	0.00	6.30	3.02	1	21	5	97	0.00	0.0	4.527	0.006	0	0	0	3
PD.9408	PL.62843	C	20T	7.12Y	118.7	0.00	6.30	3.02	0	21	5	97	0.00	0.0	4.527	0.006	0	0	0	3
PL.62841	PD.9408	C	#4/0 ACSR	7.12Y	118.7	0.00	6.30	3.02	1	21	5	97	0.00	0.0	4.560	0.033	2	0	1	3
PL.43868	PL.62841	C	#4/0 ACSR	7.12Y	118.7	0.00	6.30	2.79	1	19	5	97	0.00	0.0	4.592	0.032	18	5	1	2
PL.43949	PL.43868	C	#4/0 ACSR	7.12Y	118.7	0.00	6.30	0.20	0	1	0	100	0.00	0.0	4.644	0.052	1	0	1	1
PL.62412	PL.62410	C	6 A (CWC)	7.12Y	118.7	0.00	6.30	2.29	2	16	4	97	0.00	0.0	4.505	0.004	0	0	0	1
PD.9407	PL.62412	C	20T	7.12Y	118.7	0.00	6.30	2.29	0	16	4	97	0.00	0.0	4.505	0.004	0	0	0	1
PL.62840	PD.9407	C	6 A (CWC)	7.12Y	118.7	0.00	6.30	2.29	2	16	4	97	0.00	0.0	4.541	0.037	16	4	1	1
PL.62837	PL.44853	C	#2 ACSR	7.12Y	118.7	0.00	6.26	0.23	0	2	0	100	0.00	0.0	4.033	0.003	0	0	0	1
PD.9406	PL.62837	C	20T	7.12Y	118.7	0.00	6.26	0.23	0	2	0	100	0.00	0.0	4.033	0.003	0	0	0	1
PL.62838	PD.9406	C	#2 ACSR	7.12Y	118.7	0.00	6.26	0.23	0	2	0	100	0.00	0.0	4.065	0.032	2	0	1	1

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Balanced Voltage Drop Report
Source: Maplesville

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.62835	PL.43861	C	6 A (CWC)	7.13Y	118.8	0.00	6.23	3.27	2	23	6	97	0.00	0.0	3.757	0.004	0	0	0	2
PD.9405	PL.62835	C	20T	7.13Y	118.8	0.00	6.23	3.27	0	23	6	97	0.00	0.0	3.757	0.004	0	0	0	2
PL.62836	PD.9405	C	6 A (CWC)	7.13Y	118.8	0.00	6.24	3.27	2	23	6	97	0.00	0.0	3.779	0.023	23	6	2	2
PL.43791	PL.43855	B	#1/0 ACSR	7.14Y	119.1	0.00	5.93	1.84	1	13	3	97	0.00	0.0	3.557	0.053	13	3	1	1
PL.43856	PL.43855	B	#2 ACSR	7.14Y	119.1	0.00	5.92	0.60	0	4	1	97	0.00	0.0	3.510	0.006	0	0	0	2
PD.6963	PL.43856	B	25QA	7.14Y	119.1	0.00	5.92	0.60	2	4	1	97	0.00	0.0	3.510	0.006	0	0	0	2
PL.43857	PD.6963	B	#2 ACSR	7.14Y	119.1	0.00	5.92	0.60	0	4	1	97	0.00	0.0	3.537	0.027	4	1	2	2
PL.56793	PL.43971	C	6 A (CWC)	7.16Y	119.4	0.03	5.65	3.98	3	28	7	97	0.00	0.0	3.583	0.243	19	5	1	2
PL.56512	PL.56793	C	6 A (CWC)	7.16Y	119.4	0.00	5.65	1.22	1	8	2	97	0.00	0.0	3.637	0.054	8	2	1	1
PL.56513	PL.56512	C	6 A (CWC)	7.16Y	119.4	0.00	5.65	0.00	0	0	0	100	0.00	0.0	3.689	0.051	0	0	0	0
PL.44255	PL.43589	C	#4 ACSR	7.20Y	120.0	0.01	4.96	2.93	2	20	5	97	0.00	0.0	3.100	0.107	20	5	1	1
PL.44666	PL.43094	ABC	#1/0 ACSR	7.25Y	120.8	0.00	4.18	1.18	1	25	7	96	0.00	0.0	2.669	0.071	13	3	1	5
PL.44667	PL.44666	ABC	#1/0 ACSR	7.25Y	120.8	0.00	4.18	0.55	0	12	3	97	0.00	0.0	2.723	0.054	9	2	1	4
PL.44668	PL.44667	ABC	#1/0 ACSR	7.25Y	120.8	0.00	4.18	0.11	0	2	1	89	0.00	0.0	2.759	0.036	2	1	3	3
PL.42962	PL.43094	ABC	#1/0 ACSR	7.24Y	120.7	0.09	4.27	79.96	35	1673	474	96	1.07	0.1	2.661	0.063	0	0	0	184
PL.44669	PL.42962	ABC	#1/0 ACSR	7.24Y	120.7	0.01	4.27	79.96	35	1672	473	96	0.10	0.0	2.666	0.006	0	0	0	184
PD.6823	PL.44669	ABC	140L	7.24Y	120.7	0.00	4.27	79.96	57	1672	473	96	0.00	0.0	2.666	0.006	0	0	0	184
PL.43903	PD.6823	ABC	#1/0 ACSR	7.24Y	120.7	0.04	4.32	79.96	35	1672	473	96	0.53	0.0	2.697	0.031	0	0	0	184
PL.43906	PL.43903	ABC	#1/0 ACSR	7.23Y	120.6	0.10	4.42	78.99	34	1651	467	96	1.18	0.1	2.768	0.071	0	0	0	182
PL.43909	PL.43906	ABC	#1/0 ACSR	7.23Y	120.5	0.13	4.55	78.64	34	1642	464	96	1.46	0.1	2.857	0.089	0	0	0	181
PL.43910	PL.43909	ABC	#1/0 ACSR	7.22Y	120.3	0.12	4.67	78.35	34	1635	461	96	1.42	0.1	2.944	0.087	0	0	0	179
PL.44729	PL.43910	A	6 A (CWC)	7.22Y	120.3	0.00	4.67	1.48	1	10	3	96	0.00	0.0	2.950	0.006	0	0	0	1
PD.6955	PL.44729	A	40QA	7.22Y	120.3	0.00	4.67	1.48	4	10	3	96	0.00	0.0	2.950	0.006	0	0	0	1
PL.44730	PD.6955	A	6 A (CWC)	7.22Y	120.3	0.01	4.68	1.48	1	10	3	96	0.00	0.0	3.110	0.160	10	3	1	1
PL.43913	PL.43910	C	6 A (CWC)	7.22Y	120.3	0.00	4.67	17.05	12	119	31	97	0.00	0.0	2.950	0.006	0	0	0	10
PD.6900	PL.43913	C	40QA	7.22Y	120.3	0.00	4.67	17.05	43	119	31	97	0.00	0.0	2.950	0.006	0	0	0	10
PL.44731	PD.6900	C	6 A (CWC)	7.22Y	120.3	0.06	4.73	17.05	12	119	31	97	0.06	0.0	3.028	0.078	0	0	0	10
PL.44732	PL.44731	C	6 A (CWC)	7.21Y	120.2	0.04	4.77	17.05	12	119	31	97	0.03	0.0	3.081	0.054	18	5	1	10
PL.44733	PL.44732	C	6 A (CWC)	7.21Y	120.2	0.03	4.81	11.55	8	81	21	97	0.02	0.0	3.162	0.081	36	10	4	7
PL.44735	PL.44733	C	6 A (CWC)	7.21Y	120.2	0.02	4.82	6.33	5	44	12	96	0.00	0.0	3.259	0.097	34	9	2	3
PL.44734	PL.44735	C	6 A (CWC)	7.21Y	120.2	0.00	4.83	1.44	1	10	3	96	0.00	0.0	3.322	0.063	10	3	1	1

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Balanced Voltage Drop Report
Source: Maplesville

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.44218	PL.44732	C	#2 ACSR	7.21Y	120.2	0.00	4.77	1.50	1	10	3	96	0.00	0.0	3.115	0.034	10	3	1	1
PL.59801	PL.44732	C	#4 ACSR	7.21Y	120.2	0.00	4.77	1.44	1	10	3	96	0.00	0.0	3.124	0.042	10	3	1	1
PL.59802	PL.59801	C	#4 ACSR	7.21Y	120.2	0.00	4.77	0.00	0	0	0	100	0.00	0.0	3.152	0.029	0	0	0	0
PL.44074	PL.43910	ABC	#1/0 ACSR	7.21Y	120.2	0.09	4.76	72.18	31	1504	426	96	0.91	0.1	3.010	0.066	0	0	0	168
PL.44075	PL.44074	ABC	#1/0 ACSR	7.21Y	120.1	0.10	4.86	72.18	31	1503	425	96	1.10	0.1	3.089	0.080	0	0	0	168
PL.44736	PL.44075	C	6 A (CWC)	7.21Y	120.1	0.00	4.86	3.03	2	21	6	96	0.00	0.0	3.095	0.006	0	0	0	3
PD.6969	PL.44736	C	40QA	7.21Y	120.1	0.00	4.86	3.03	8	21	6	96	0.00	0.0	3.095	0.006	0	0	0	3
PL.44737	PD.6969	C	6 A (CWC)	7.21Y	120.1	0.01	4.87	3.03	2	21	6	96	0.00	0.0	3.163	0.068	13	3	2	3
PL.44738	PL.44737	C	6 A (CWC)	7.21Y	120.1	0.00	4.87	1.14	1	8	2	97	0.00	0.0	3.240	0.077	8	2	1	1
PL.44739	PL.44738	C	6 A (CWC)	7.21Y	120.1	0.00	4.87	0.00	0	0	0	100	0.00	0.0	3.356	0.116	0	0	0	0
PL.43309	PL.44075	ABC	#1/0 ACSR	7.20Y	120.1	0.06	4.92	71.17	31	1481	418	96	0.60	0.0	3.134	0.045	5	1	1	165
PL.43310	PL.43309	ABC	#1/0 ACSR	7.19Y	119.8	0.24	5.16	70.95	31	1476	416	96	2.56	0.2	3.325	0.191	0	0	0	164
PL.43311	PL.43310	A	6 A (CWC)	7.19Y	119.8	0.00	5.17	17.41	12	121	32	97	0.00	0.0	3.331	0.006	0	0	0	14
PD.6860	PL.43311	A	40QA	7.19Y	119.8	0.00	5.17	17.41	44	121	32	97	0.00	0.0	3.331	0.006	0	0	0	14
PL.43312	PD.6860	A	6 A (CWC)	7.19Y	119.8	0.08	5.25	17.41	12	121	32	97	0.08	0.1	3.433	0.102	0	0	0	14
PL.57886	PL.43312	A	6 A (CWC)	7.18Y	119.7	0.06	5.30	15.99	11	111	29	97	0.05	0.0	3.512	0.079	8	2	1	13
PL.57887	PL.57886	A	6 A (CWC)	7.17Y	119.6	0.11	5.42	14.83	11	103	27	97	0.09	0.1	3.695	0.183	15	4	5	12
PL.57888	PL.57887	A	6 A (CWC)	7.17Y	119.6	0.02	5.44	12.67	9	88	23	97	0.01	0.0	3.729	0.033	0	0	0	7
PL.43980	PL.57888	A	#1/0 ACSR	7.17Y	119.6	0.00	5.44	0.91	0	6	2	95	0.00	0.0	3.851	0.122	6	2	1	1
PL.43317	PL.57888	A	6 A (CWC)	7.17Y	119.6	0.00	5.44	1.08	1	8	2	97	0.00	0.0	3.797	0.069	8	2	1	1
PL.43318	PL.43317	A	6 A (CWC)	7.17Y	119.6	0.00	5.44	0.00	0	0	0	100	0.00	0.0	3.913	0.116	0	0	0	0
PL.43313	PL.57888	A	#4 ACSR	7.17Y	119.5	0.03	5.47	10.68	8	74	20	97	0.02	0.0	3.794	0.066	14	4	1	5
PL.43314	PL.43313	A	#4 ACSR	7.17Y	119.5	0.01	5.48	8.63	7	60	16	97	0.01	0.0	3.839	0.044	21	5	1	4
PL.43315	PL.43314	A	#4 ACSR	7.17Y	119.5	0.01	5.49	5.62	4	39	10	97	0.00	0.0	3.880	0.042	18	5	1	3
PL.43316	PL.43315	A	#4 ACSR	7.17Y	119.5	0.01	5.49	3.02	2	21	6	96	0.00	0.0	3.959	0.078	21	6	2	2
PL.44321	PL.43316	A	#4 ACSR	7.17Y	119.5	0.00	5.49	0.00	0	0	0	100	0.00	0.0	3.986	0.028	0	0	0	0
PL.43656	PL.43312	A	#4 ACSR	7.19Y	119.8	0.00	5.25	1.42	1	10	3	96	0.00	0.0	3.475	0.042	10	3	1	1
PL.43319	PL.43310	ABC	#1/0 ACSR	7.18Y	119.7	0.12	5.29	65.14	28	1352	382	96	1.19	0.1	3.430	0.105	0	0	1	150
PL.43320	PL.43319	ABC	#1/0 ACSR	7.17Y	119.5	0.19	5.47	65.13	28	1351	381	96	1.80	0.1	3.590	0.160	15	4	1	149
PL.44740	PL.43320	ABC	#1/0 ACSR	7.16Y	119.3	0.19	5.66	64.43	28	1334	375	96	1.78	0.1	3.751	0.161	0	0	0	148
PL.44741	PL.44740	A	6 A (CWC)	7.16Y	119.3	0.00	5.66	4.24	3	29	8	96	0.00	0.0	3.757	0.006	0	0	0	5

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Balanced Voltage Drop Report
Source: Maplesville

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.6859	PL.44741	A	40QA	7.16Y	119.3	0.00	5.66	4.24	11	29	8	96	0.00	0.0	3.757	0.006	0	0	0	5
PL.44742	PD.6859	A	6 A (CWC)	7.16Y	119.3	0.02	5.69	4.24	3	29	8	96	0.01	0.0	3.882	0.125	0	0	0	5
PL.44743	PL.44742	A	6 A (CWC)	7.16Y	119.3	0.01	5.69	4.12	3	29	8	96	0.00	0.0	3.934	0.052	13	3	1	4
PL.43657	PL.44743	A	#4 ACSR	7.16Y	119.3	0.00	5.69	0.70	1	5	1	98	0.00	0.0	3.996	0.062	5	1	2	2
PL.44744	PL.44743	A	6 A (CWC)	7.16Y	119.3	0.00	5.70	1.56	1	11	3	96	0.00	0.0	3.989	0.055	11	3	1	1
PL.44745	PL.44744	A	6 A (CWC)	7.16Y	119.3	0.00	5.70	0.00	0	0	0	100	0.00	0.0	4.107	0.118	0	0	0	0
PL.42936	PL.44742	A	#4 ACSR	7.16Y	119.3	0.00	5.69	0.12	0	1	0	100	0.00	0.0	3.969	0.087	1	0	1	1
PL.42003	PL.44740	ABC	#1/0 ACSR	7.16Y	119.3	0.05	5.71	63.02	27	1303	366	96	0.45	0.0	3.794	0.043	16	4	1	143
PL.43587	PL.42003	ABC	#1/0 ACSR	7.15Y	119.2	0.07	5.77	62.23	27	1287	361	96	0.60	0.0	3.852	0.058	0	0	0	142
PL.44273	PL.43587	ABC	#1/0 ACSR	7.15Y	119.1	0.12	5.89	61.02	27	1261	354	96	1.04	0.1	3.959	0.106	16	4	2	140
PL.44274	PL.44273	ABC	#1/0 ACSR	7.14Y	119.0	0.11	6.00	60.25	26	1244	349	96	1.00	0.1	4.062	0.104	0	0	0	138
PL.44419	PL.44274	ABC	6 A (CWC)	7.13Y	118.8	0.20	6.21	56.57	40	1168	323	96	1.96	0.2	4.155	0.092	0	0	0	130
PL.42002	PL.44419	C	#1/0 ACSR	7.13Y	118.8	0.00	6.21	0.96	0	7	2	96	0.00	0.0	4.197	0.043	7	2	1	1
PL.56291	PL.44419	ABC	6 A (CWC)	7.12Y	118.7	0.08	6.29	56.25	40	1159	321	96	0.77	0.1	4.192	0.037	0	0	0	129
PL.56293	PL.56291	ABC	#1/0 ACSR	7.12Y	118.6	0.08	6.37	49.04	21	1009	281	96	0.57	0.1	4.280	0.089	0	0	0	107
PL.43296	PL.56293	A	#2/0 ACSR	7.12Y	118.6	0.00	6.37	1.66	1	11	3	96	0.00	0.0	4.326	0.045	11	3	1	1
PL.63193	PL.56293	B	1/0 AL URD	7.12Y	118.6	0.00	6.37	0.52	0	4	1	97	0.00	0.0	4.335	0.054	4	1	1	1
PL.44486	PL.56293	ABC	#1/0 ACSR	7.12Y	118.6	0.04	6.41	48.31	21	994	277	96	0.30	0.0	4.329	0.048	15	4	1	105
PL.44487	PL.44486	ABC	#1/0 ACSR	7.11Y	118.5	0.04	6.45	47.60	21	979	272	96	0.31	0.0	4.380	0.052	0	0	0	104
PL.44491	PL.44487	ABC	#1/0 ACSR	7.10Y	118.3	0.20	6.66	46.39	20	954	266	96	1.40	0.1	4.625	0.244	0	0	0	100
PL.41984	PL.44491	ABC	#1/0 ACSR	7.09Y	118.2	0.10	6.76	46.39	20	952	264	96	0.67	0.1	4.741	0.117	0	0	0	100
REG70	PL.41984	ABC	76.2 KVA	7.52Y	125.3	-7.05	-0.29	46.39	46	952	264	96	percent Boost= 5.62 Tap= 9.0							100
PL.41985	REG70	ABC	#1/0 ACSR	7.51Y	125.2	0.06	-0.23	43.78	19	952	264	96	0.41	0.0	4.821	0.080	0	0	0	100
PL.64701	PL.41985	ABC	#1/0 ACSR	7.51Y	125.2	0.05	-0.18	43.27	19	940	260	96	0.29	0.0	4.880	0.059	0	0	0	98
PL.64702	PL.64701	ABC	#1/0 ACSR	7.51Y	125.1	0.04	-0.14	42.77	19	929	257	96	0.24	0.0	4.930	0.050	0	0	0	96
PL.41990	PL.64702	A	6 A (CWC)	7.51Y	125.1	0.00	-0.14	2.66	2	19	5	97	0.00	0.0	4.936	0.006	0	0	0	1
PD.6908	PL.41990	A	40QA	7.51Y	125.1	0.00	-0.14	2.66	7	19	5	97	0.00	0.0	4.936	0.006	0	0	0	1
PL.41991	PD.6908	A	6 A (CWC)	7.51Y	125.1	0.00	-0.14	2.66	2	19	5	97	0.00	0.0	5.003	0.067	19	5	1	1
PL.59816	PL.64702	A	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	1.64	1	12	3	97	0.00	0.0	4.980	0.050	12	3	1	1
PL.41992	PL.64702	ABC	#1/0 ACSR	7.51Y	125.1	0.03	-0.11	41.34	18	897	249	96	0.18	0.0	4.970	0.040	0	0	0	94
PL.41993	PL.41992	A	#1/0 ACSR	7.51Y	125.1	0.00	-0.11	4.13	2	30	8	97	0.00	0.0	4.976	0.006	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: Maplesville

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.6932	PL.41993	A	40QA	7.51Y	125.1	0.00	-0.11	4.13	10	30	8	97	0.00	0.0	4.976	0.006	0	0	0	3
PL.41994	PD.6932	A	#1/0 ACSR	7.51Y	125.1	0.00	-0.11	4.13	2	30	8	97	0.00	0.0	5.026	0.050	20	5	2	3
PL.44747	PL.41994	A	#1/0 ACSR	7.51Y	125.1	0.00	-0.11	1.38	1	10	3	96	0.00	0.0	5.059	0.032	10	3	1	1
PL.44748	PL.41992	ABC	#1/0 ACSR	7.50Y	125.0	0.11	-0.01	39.96	17	867	241	96	0.63	0.1	5.117	0.147	0	0	0	91
PL.44750	PL.44748	A	#1/0 ACSR	7.50Y	125.0	0.00	-0.01	1.56	1	11	3	96	0.00	0.0	5.123	0.006	0	0	0	1
PD.6877	PL.44750	A	40QA	7.50Y	125.0	0.00	-0.01	1.56	4	11	3	96	0.00	0.0	5.123	0.006	0	0	0	1
PL.44751	PD.6877	A	#1/0 ACSR	7.50Y	125.0	0.00	-0.01	1.56	1	11	3	96	0.00	0.0	5.202	0.079	11	3	1	1
PL.44749	PL.44748	ABC	#1/0 ACSR	7.49Y	124.9	0.11	0.10	39.44	17	855	237	96	0.62	0.1	5.267	0.150	0	0	0	90
PL.44752	PL.44749	A	6 A (CWC)	7.49Y	124.9	0.00	0.10	0.99	1	7	2	96	0.00	0.0	5.273	0.006	0	0	0	1
PD.6947	PL.44752	A	40QA	7.49Y	124.9	0.00	0.10	0.99	2	7	2	96	0.00	0.0	5.273	0.006	0	0	0	1
PL.44753	PD.6947	A	6 A (CWC)	7.49Y	124.9	0.02	0.12	0.99	1	7	2	96	0.00	0.0	5.791	0.518	0	0	0	1
PL.44755	PL.44753	A	#4 ACSR	7.49Y	124.9	0.00	0.13	0.99	1	7	2	96	0.00	0.0	6.012	0.221	7	2	1	1
PL.44756	PL.44755	A	#4 ACSR	7.49Y	124.9	0.00	0.13	0.00	0	0	0	100	0.00	0.0	6.047	0.035	0	0	0	0
PL.44754	PL.44753	A	6 A (CWC)	7.49Y	124.9	0.00	0.12	0.00	0	0	0	100	0.00	0.0	5.870	0.079	0	0	0	0
PL.44337	PL.44754	A	6 A (CWC)	7.49Y	124.9	0.00	0.12	0.00	0	0	0	100	0.00	0.0	5.966	0.096	0	0	0	0
PL.44253	PL.44749	ABC	#1/0 ACSR	7.49Y	124.8	0.14	0.24	39.11	17	847	235	96	0.80	0.1	5.464	0.197	0	0	0	89
PL.44757	PL.44253	ABC	#1/0 ACSR	7.49Y	124.8	0.00	0.24	39.11	17	847	234	96	0.02	0.0	5.470	0.006	0	0	0	89
PD.6820	PL.44757	ABC	70L	7.49Y	124.8	0.00	0.24	39.11	56	847	234	96	0.00	0.0	5.470	0.006	0	0	0	89
PL.44758	PD.6820	ABC	#1/0 ACSR	7.48Y	124.7	0.05	0.29	39.11	17	847	234	96	0.30	0.0	5.543	0.074	0	0	0	89
PL.44759	PL.44758	ABC	#1/0 ACSR	7.48Y	124.6	0.07	0.37	39.11	17	846	234	96	0.41	0.0	5.645	0.102	17	4	1	89
PL.44761	PL.44759	A	#1/0 ACSR	7.48Y	124.6	0.00	0.37	3.31	1	24	6	97	0.00	0.0	5.651	0.006	0	0	0	1
PD.6943	PL.44761	A	25QA	7.48Y	124.6	0.00	0.37	3.31	13	24	6	97	0.00	0.0	5.651	0.006	0	0	0	1
PL.44762	PD.6943	A	#1/0 ACSR	7.48Y	124.6	0.00	0.37	3.31	1	24	6	97	0.00	0.0	5.675	0.024	24	6	1	1
PL.44760	PL.44759	ABC	#1/0 ACSR	7.47Y	124.6	0.07	0.43	37.25	16	805	222	96	0.36	0.0	5.743	0.097	0	0	0	87
PL.43555	PL.44760	ABC	#1/0 ACSR	7.47Y	124.6	0.02	0.45	33.75	15	729	202	96	0.09	0.0	5.772	0.030	0	0	0	80
PL.43556	PL.43555	ABC	#1/0 ACSR	7.47Y	124.5	0.02	0.47	33.75	15	729	202	96	0.11	0.0	5.810	0.038	0	0	0	80
PL.44171	PL.43556	C	#1/0 ACSR	7.47Y	124.5	0.00	0.47	0.07	0	1	0	100	0.00	0.0	5.816	0.006	0	0	0	1
PD.6931	PL.44171	C	60QA	7.47Y	124.5	0.00	0.47	0.07	0	1	0	100	0.00	0.0	5.816	0.006	0	0	0	1
PL.43410	PD.6931	C	#1/0 ACSR	7.47Y	124.5	0.00	0.47	0.07	0	1	0	100	0.00	0.0	5.823	0.007	0	0	0	1
PL.43965	PL.43410	C	6 A (CWC)	7.47Y	124.5	0.00	0.47	0.07	0	1	0	100	0.00	0.0	5.977	0.155	1	0	1	1
PL.43966	PL.43965	C	#2 ACSR	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	6.058	0.080	0	0	0	0

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Balanced Voltage Drop Report
Source: Maplesville

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.44217	PL.43966	C	#1/0 ACSR	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	6.146	0.089	0	0	0	0
PL.43793	PL.43966	C	#1/0 ACSR	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	6.137	0.079	0	0	0	0
PL.44190	PL.43966	C	#1/0 ACSR	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	6.093	0.035	0	0	0	0
PL.43967	PL.43966	C	#2 ACSR	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	6.105	0.048	0	0	0	0
PL.43021	PL.43967	C	#2 ACSR	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	6.138	0.033	0	0	0	0
PL.43968	PL.43967	C	#2 ACSR	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	6.212	0.106	0	0	0	0
PL.44451	PL.43556	ABC	#1/0 ACSR	7.47Y	124.5	0.03	0.50	33.73	15	729	202	96	0.16	0.0	5.862	0.052	0	0	0	79
PL.44452	PL.44451	ABC	#1/0 ACSR	7.47Y	124.4	0.06	0.56	33.73	15	728	202	96	0.29	0.0	5.957	0.095	0	0	0	79
PL.63171	PL.44452	B	#1/0 ACSR	7.47Y	124.4	0.00	0.56	4.24	2	31	8	97	0.00	0.0	5.975	0.019	31	8	3	3
PL.44457	PL.44452	ABC	#1/0 ACSR	7.46Y	124.4	0.03	0.59	28.48	12	615	171	96	0.13	0.0	6.018	0.061	29	8	4	60
PL.44458	PL.44457	A	#1/0 ACSR	7.46Y	124.4	0.00	0.59	6.71	3	46	20	92	0.00	0.0	6.023	0.006	0	0	0	3
PD.6728	PL.44458	A	40QA	7.46Y	124.4	0.00	0.59	6.71	17	46	20	92	0.00	0.0	6.023	0.006	0	0	0	3
PL.44459	PD.6728	A	#1/0 ACSR	7.46Y	124.4	0.01	0.60	6.71	3	46	20	92	0.00	0.0	6.112	0.088	35	17	1	3
PL.44460	PL.44459	A	#1/0 ACSR	7.46Y	124.4	0.00	0.60	1.54	1	11	3	96	0.00	0.0	6.173	0.061	11	3	2	2
PL.59803	PL.44460	A	#1/0 ACSR	7.46Y	124.4	0.00	0.60	0.00	0	0	0	100	0.00	0.0	6.231	0.059	0	0	0	0
PL.44461	PL.44457	ABC	#1/0 ACSR	7.46Y	124.3	0.06	0.65	24.92	11	539	144	97	0.22	0.0	6.156	0.138	11	3	2	53
PL.44462	PL.44461	ABC	#1/0 ACSR	7.46Y	124.3	0.04	0.69	24.40	11	528	141	97	0.14	0.0	6.242	0.086	0	0	0	51
PL.44463	PL.44462	C	#1/0 ACSR	7.46Y	124.3	0.00	0.69	1.65	1	12	3	97	0.00	0.0	6.248	0.006	0	0	0	1
PD.6730	PL.44463	C	40QA	7.46Y	124.3	0.00	0.69	1.65	4	12	3	97	0.00	0.0	6.248	0.006	0	0	0	1
PL.44464	PD.6730	C	#1/0 ACSR	7.46Y	124.3	0.00	0.69	1.65	1	12	3	97	0.00	0.0	6.257	0.009	0	0	0	1
PL.44465	PL.44464	C	#1/0 ACSR	7.46Y	124.3	0.00	0.69	1.65	1	12	3	97	0.00	0.0	6.301	0.044	12	3	1	1
PL.44466	PL.44462	ABC	#1/0 ACSR	7.46Y	124.3	0.04	0.73	23.85	10	516	137	97	0.14	0.0	6.336	0.094	0	0	0	50
PL.44467	PL.44466	ABC	#1/0 ACSR	7.45Y	124.2	0.04	0.77	23.85	10	516	137	97	0.14	0.0	6.427	0.092	0	0	0	50
PL.44468	PL.44467	C	6 A (CWC)	7.45Y	124.2	0.00	0.77	1.21	1	9	2	98	0.00	0.0	6.433	0.006	0	0	0	2
PD.6875	PL.44468	C	40QA	7.45Y	124.2	0.00	0.77	1.21	3	9	2	98	0.00	0.0	6.433	0.006	0	0	0	2
PL.44470	PD.6875	C	6 A (CWC)	7.45Y	124.2	0.00	0.77	1.21	1	9	2	98	0.00	0.0	6.445	0.012	0	0	0	2
PL.43096	PL.44470	C	6 A (CWC)	7.45Y	124.2	0.00	0.77	0.99	1	7	2	96	0.00	0.0	6.468	0.023	7	2	1	1
PL.44471	PL.44470	C	6 A (CWC)	7.45Y	124.2	0.00	0.77	0.23	0	2	0	100	0.00	0.0	6.490	0.045	2	0	1	1
PL.42960	PL.44467	ABC	#1/0 ACSR	7.45Y	124.2	0.04	0.81	20.73	9	448	119	97	0.11	0.0	6.526	0.098	8	2	1	41
PL.43776	PL.42960	C	6 A (CWC)	7.45Y	124.2	0.01	0.82	53.46	38	385	103	97	0.04	0.0	6.531	0.006	0	0	0	34
PD.6874	PL.43776	C	75QA	7.45Y	124.2	0.00	0.82	53.46	71	385	103	97	0.00	0.0	6.531	0.006	0	0	0	34

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Balanced Voltage Drop Report
Source: Maplesville

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.43777	PD.6874	C	6 A (CWC)	7.44Y	124.0	0.15	0.97	53.46	38	385	103	97	0.41	0.1	6.592	0.061	10	3	1	34
PL.42941	PL.43777	C	6 A (CWC)	7.43Y	123.9	0.13	1.10	50.81	36	365	97	97	0.34	0.1	6.648	0.056	13	3	1	32
PL.42942	PL.42941	C	6 A (CWC)	7.42Y	123.6	0.26	1.36	49.02	35	352	94	97	0.68	0.2	6.767	0.118	7	2	1	31
PL.66143	PL.42942	C	6 A (CWC)	7.42Y	123.6	0.01	1.36	2.89	2	21	5	97	0.00	0.0	6.827	0.060	0	0	0	3
PL.66144	PL.66143	C	6 A (CWC)	7.42Y	123.6	0.01	1.37	2.66	2	19	5	97	0.00	0.0	6.901	0.074	6	2	1	2
PL.43782	PL.66144	C	6 A (CWC)	7.42Y	123.6	0.02	1.40	1.77	1	13	3	97	0.00	0.0	7.207	0.306	0	0	0	1
PL.43783	PL.43782	C	6 A (CWC)	7.42Y	123.6	0.00	1.40	1.77	1	13	3	97	0.00	0.0	7.269	0.062	13	3	1	1
PL.66142	PL.66143	C	#1/0 ACSR	7.42Y	123.6	0.00	1.37	0.23	0	2	0	100	0.00	0.0	6.907	0.081	2	0	1	1
PL.42943	PL.42942	C	6 A (CWC)	7.41Y	123.4	0.20	1.55	45.22	32	324	86	97	0.47	0.1	6.863	0.096	3	1	1	27
PL.44843	PL.42943	C	6 A (CWC)	7.40Y	123.3	0.13	1.68	44.78	32	321	85	97	0.30	0.1	6.927	0.064	22	6	3	26
PL.43321	PL.44843	C	6 A (CWC)	7.39Y	123.2	0.09	1.77	39.54	28	283	75	97	0.19	0.1	6.976	0.049	0	0	0	21
PL.43848	PL.43321	C	6 A (CWC)	7.39Y	123.1	0.12	1.89	39.54	28	283	75	97	0.24	0.1	7.041	0.065	6	2	1	21
PL.43849	PL.43848	C	6 A (CWC)	7.38Y	123.1	0.05	1.93	38.70	28	276	73	97	0.10	0.0	7.068	0.027	0	0	0	20
PL.53202	PL.43849	C	6 A (CWC)	7.38Y	123.0	0.10	2.03	27.51	20	196	52	97	0.14	0.1	7.151	0.083	21	6	2	15
PL.53203	PL.53202	C	6 A (CWC)	7.38Y	122.9	0.05	2.08	24.53	18	175	46	97	0.06	0.0	7.195	0.044	0	0	0	13
PL.53204	PL.53203	C	6 A (CWC)	7.37Y	122.9	0.01	2.09	6.89	5	49	13	97	0.00	0.0	7.243	0.047	12	3	1	3
PL.53205	PL.53204	C	6 A (CWC)	7.37Y	122.9	0.00	2.10	5.14	4	37	10	97	0.00	0.0	7.264	0.022	17	4	1	2
PL.53772	PL.53205	C	6 A (CWC)	7.37Y	122.9	0.01	2.11	2.81	2	20	5	97	0.00	0.0	7.337	0.073	0	0	0	1
PL.43794	PL.53772	C	#2 ACSR	7.37Y	122.9	0.00	2.11	0.00	0	0	0	100	0.00	0.0	7.356	0.019	0	0	0	0
PL.43850	PL.53772	C	6 A (CWC)	7.37Y	122.9	0.00	2.11	2.81	2	20	5	97	0.00	0.0	7.357	0.020	20	5	1	1
PL.43851	PL.53203	C	#4 ACSR	7.37Y	122.8	0.13	2.21	17.64	14	126	33	97	0.13	0.1	7.363	0.168	0	0	0	10
PL.43852	PL.43851	C	#4 ACSR	7.37Y	122.8	0.00	2.22	2.34	2	17	4	97	0.00	0.0	7.410	0.046	17	4	1	1
PL.43853	PL.43851	C	#4 ACSR	7.36Y	122.7	0.05	2.27	15.31	12	109	29	97	0.04	0.0	7.442	0.079	6	2	1	9
PL.43854	PL.43853	C	#4 ACSR	7.36Y	122.7	0.01	2.28	14.49	11	103	27	97	0.01	0.0	7.466	0.023	10	3	1	8
PL.55002	PL.43854	C	#4 ACSR	7.36Y	122.7	0.05	2.33	13.07	10	93	25	97	0.03	0.0	7.579	0.114	31	8	1	7
PL.55003	PL.55002	C	#1/0 ACSR	7.36Y	122.7	0.01	2.34	4.92	2	35	9	97	0.00	0.0	7.679	0.100	15	4	1	3
PL.53199	PL.55003	C	#1/0 ACSR	7.36Y	122.7	0.00	2.35	2.78	1	20	5	97	0.00	0.0	7.720	0.041	0	0	0	2
PL.53200	PL.53199	C	#1/0 ACSR	7.36Y	122.7	0.00	2.35	0.63	0	4	1	97	0.00	0.0	7.752	0.031	4	1	1	1
PL.53201	PL.53199	C	#1/0 ACSR	7.36Y	122.7	0.00	2.35	2.15	1	15	4	97	0.00	0.0	7.759	0.038	15	4	1	1
PL.55004	PL.55002	C	#1/0 ACSR	7.36Y	122.7	0.00	2.34	3.78	2	27	7	97	0.00	0.0	7.616	0.037	27	7	3	3
PL.53775	PL.43849	C	6 A (CWC)	7.38Y	123.1	0.01	1.95	11.19	8	80	21	97	0.01	0.0	7.099	0.031	14	4	1	5

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: Maplesville

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.53776	PL.53775	C	#1/0 ACSR	7.38Y	123.0	0.02	1.96	9.24	4	66	17	97	0.01	0.0	7.176	0.078	0	0	0	4
PL.53779	PL.53776	C	#1/0 ACSR	7.38Y	123.0	0.00	1.97	3.14	1	22	6	96	0.00	0.0	7.229	0.053	12	3	1	2
PL.53780	PL.53779	C	#1/0 ACSR	7.38Y	123.0	0.00	1.97	1.40	1	10	3	96	0.00	0.0	7.416	0.187	10	3	1	1
PL.53777	PL.53776	C	#1/0 ACSR	7.38Y	123.0	0.01	1.97	6.11	3	44	11	97	0.00	0.0	7.260	0.084	15	4	1	2
PL.53778	PL.53777	C	#1/0 ACSR	7.38Y	123.0	0.00	1.98	4.03	2	29	8	96	0.00	0.0	7.326	0.066	29	8	1	1
PL.53773	PL.43321	C	#2 ACSR	7.39Y	123.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	7.000	0.024	0	0	0	0
PL.44206	PL.44843	C	6 A (CWC)	7.40Y	123.3	0.00	1.68	2.19	2	16	4	97	0.00	0.0	6.963	0.036	16	4	2	2
PL.44027	PL.43777	C	6 A (CWC)	7.44Y	124.0	0.00	0.97	1.33	1	10	3	96	0.00	0.0	6.735	0.143	10	3	1	1
PL.44844	PL.42960	ABC	#1/0 ACSR	7.45Y	124.2	0.01	0.81	2.29	1	50	13	97	0.00	0.0	6.702	0.176	0	0	0	5
PL.44846	PL.44844	A	#1/0 ACSR	7.45Y	124.2	0.00	0.81	2.95	1	21	6	96	0.00	0.0	6.708	0.006	0	0	0	3
PD.6873	PL.44846	A	40QA	7.45Y	124.2	0.00	0.81	2.95	7	21	6	96	0.00	0.0	6.708	0.006	0	0	0	3
PL.44847	PD.6873	A	#1/0 ACSR	7.45Y	124.2	0.00	0.81	2.95	1	21	6	96	0.00	0.0	6.717	0.010	15	4	1	3
PL.44848	PL.44847	A	#1/0 ACSR	7.45Y	124.2	0.00	0.82	0.82	0	6	2	95	0.00	0.0	6.782	0.065	3	1	1	2
PL.44849	PL.44848	A	#1/0 ACSR	7.45Y	124.2	0.00	0.82	0.41	0	3	1	95	0.00	0.0	6.854	0.072	3	1	1	1
PL.44845	PL.44844	ABC	#1/0 ACSR	7.45Y	124.2	0.00	0.81	1.31	1	28	7	97	0.00	0.0	6.735	0.033	0	0	0	2
PL.44850	PL.44845	A	#2 ACSR	7.45Y	124.2	0.00	0.81	1.19	1	9	2	98	0.00	0.0	6.741	0.006	0	0	0	1
PD.6923	PL.44850	A	25QA	7.45Y	124.2	0.00	0.81	1.19	5	9	2	98	0.00	0.0	6.741	0.006	0	0	0	1
PL.53774	PD.6923	A	#2 ACSR	7.45Y	124.2	0.00	0.82	1.19	1	9	2	98	0.00	0.0	6.754	0.013	9	2	1	1
PL.44268	PL.44845	A	#2 ACSR	7.45Y	124.2	0.00	0.82	2.73	2	20	5	97	0.00	0.0	6.752	0.017	20	5	1	1
PL.43022	PL.44845	A	#1/0 ACSR	7.45Y	124.2	0.00	0.81	0.00	0	0	0	100	0.00	0.0	6.754	0.019	0	0	0	0
PL.44266	PL.42960	A	#1/0 ACSR	7.45Y	124.2	0.00	0.81	0.83	0	6	2	95	0.00	0.0	6.543	0.017	6	2	1	1
PL.44469	PL.44467	A	6 A (CWC)	7.45Y	124.2	0.00	0.77	8.13	6	59	15	97	0.00	0.0	6.433	0.006	0	0	0	7
PD.6876	PL.44469	A	60QA	7.45Y	124.2	0.00	0.77	8.13	14	59	15	97	0.00	0.0	6.433	0.006	0	0	0	7
PL.44772	PD.6876	A	6 A (CWC)	7.45Y	124.2	0.03	0.80	8.13	6	59	15	97	0.01	0.0	6.512	0.079	0	0	0	7
PL.43655	PL.44772	A	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.13	0	1	0	100	0.00	0.0	6.588	0.076	1	0	1	1
PL.44773	PL.44772	A	6 A (CWC)	7.45Y	124.2	0.03	0.83	8.00	6	58	15	97	0.01	0.0	6.604	0.092	10	3	1	6
PL.59892	PL.44773	A	6 A (CWC)	7.45Y	124.1	0.03	0.86	6.55	5	47	12	97	0.01	0.0	6.729	0.125	19	5	1	5
PL.59894	PL.59892	A	#1/0 ACSR	7.45Y	124.1	0.00	0.86	0.00	0	0	0	100	0.00	0.0	6.900	0.171	0	0	0	0
PL.59893	PL.59892	A	6 A (CWC)	7.45Y	124.1	0.00	0.87	3.88	3	28	7	97	0.00	0.0	6.760	0.031	7	2	1	4
PL.44840	PL.59893	A	6 A (CWC)	7.45Y	124.1	0.01	0.87	2.89	2	21	5	97	0.00	0.0	6.820	0.060	0	0	0	3
PL.43738	PL.44840	A	#1/0 ACSR	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	6.908	0.088	0	0	0	0

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Balanced Voltage Drop Report
Source: Maplesville

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.43964	PL.44840	A	#4 ACSR	7.45Y	124.1	0.00	0.88	0.84	1	6	2	95	0.00	0.0	6.852	0.031	6	2	1	1
PL.44841	PL.44840	A	6 A (CWC)	7.45Y	124.1	0.01	0.88	2.05	1	15	4	97	0.00	0.0	6.899	0.079	0	0	0	2
PL.44174	PL.44841	A	#4 ACSR	7.45Y	124.1	0.00	0.88	0.51	0	4	1	97	0.00	0.0	6.919	0.019	4	1	1	1
PL.44842	PL.44841	A	6 A (CWC)	7.45Y	124.1	0.00	0.88	1.54	1	11	3	96	0.00	0.0	6.973	0.073	11	3	1	1
PL.44453	PL.44452	A	#1/0 ACSR	7.47Y	124.4	0.01	0.57	11.49	5	83	22	97	0.00	0.0	5.989	0.033	8	2	2	16
PL.44454	PL.44453	A	#1/0 ACSR	7.46Y	124.4	0.02	0.59	10.32	4	75	20	97	0.01	0.0	6.085	0.095	14	4	3	14
PL.44455	PL.44454	A	#1/0 ACSR	7.46Y	124.4	0.01	0.60	8.36	4	60	16	97	0.00	0.0	6.146	0.062	31	8	5	11
PL.44456	PL.44455	A	#1/0 ACSR	7.46Y	124.4	0.00	0.60	4.01	2	29	8	96	0.00	0.0	6.184	0.037	29	8	6	6
PL.44169	PL.43555	C	#1/0 ACSR	7.47Y	124.6	0.00	0.45	0.00	0	0	0	100	0.00	0.0	5.778	0.006	0	0	0	0
PD.6924	PL.44169	C	25QA	7.47Y	124.6	0.00	0.45	0.00	0	0	0	100	0.00	0.0	5.778	0.006	0	0	0	0
PL.44170	PD.6924	C	#1/0 ACSR	7.47Y	124.6	0.00	0.45	0.00	0	0	0	100	0.00	0.0	5.808	0.030	0	0	0	0
PL.44763	PL.44760	A	#1/0 ACSR	7.47Y	124.6	0.00	0.43	10.48	5	76	20	97	0.00	0.0	5.748	0.006	0	0	0	7
PD.6907	PL.44763	A	30T	7.47Y	124.6	0.00	0.43	10.48	0	76	20	97	0.00	0.0	5.748	0.006	0	0	0	7
PL.44764	PD.6907	A	#1/0 ACSR	7.47Y	124.6	0.01	0.44	10.48	5	76	20	97	0.01	0.0	5.800	0.052	9	2	1	7
PL.44765	PL.44764	A	#1/0 ACSR	7.47Y	124.5	0.01	0.45	9.23	4	67	18	97	0.00	0.0	5.841	0.041	0	0	0	6
PL.44770	PL.44765	A	6 A (CWC)	7.47Y	124.5	0.02	0.47	6.98	5	50	13	97	0.01	0.0	5.897	0.055	0	0	0	4
PL.44205	PL.44770	A	#2 ACSR	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	5.960	0.063	0	0	0	0
PL.44771	PL.44770	A	6 A (CWC)	7.47Y	124.5	0.05	0.52	6.98	5	50	13	97	0.02	0.0	6.040	0.143	0	0	0	4
PL.44446	PL.44771	A	6 A (CWC)	7.47Y	124.4	0.04	0.55	6.98	5	50	13	97	0.01	0.0	6.195	0.155	26	7	1	4
PL.44447	PL.44446	A	6 A (CWC)	7.47Y	124.4	0.01	0.56	3.39	2	24	6	97	0.00	0.0	6.247	0.052	5	1	1	3
PL.44448	PL.44447	A	6 A (CWC)	7.47Y	124.4	0.01	0.57	2.66	2	19	5	97	0.00	0.0	6.315	0.068	0	0	0	2
PL.44449	PL.44448	A	6 A (CWC)	7.47Y	124.4	0.01	0.57	2.66	2	19	5	97	0.00	0.0	6.357	0.042	0	0	0	2
PL.44450	PL.44449	A	6 A (CWC)	7.47Y	124.4	0.00	0.57	1.02	1	7	2	96	0.00	0.0	6.421	0.064	7	2	1	1
PL.59809	PL.44449	A	#2 ACSR	7.46Y	124.4	0.01	0.59	1.64	1	12	3	97	0.00	0.0	6.618	0.261	0	0	0	1
PL.59810	PL.59809	A	#1/0 ACSR	7.46Y	124.4	0.00	0.59	0.00	0	0	0	100	0.00	0.0	6.630	0.013	0	0	0	0
PL.62805	PL.59809	A	#1/0 ACSR	7.46Y	124.4	0.00	0.59	1.64	1	12	3	97	0.00	0.0	6.619	0.002	0	0	0	1
PD.9449	PL.62805	A	15	7.46Y	124.4	0.00	0.59	1.64	11	12	3	97	0.00	0.0	6.619	0.002	0	0	0	1
PL.59895	PD.9449	A	#1/0 ACSR	7.46Y	124.4	0.00	0.59	1.64	1	12	3	97	0.00	0.0	6.680	0.061	12	3	1	1
PL.44766	PL.44765	A	6 A (CWC)	7.47Y	124.5	0.00	0.46	2.25	2	16	4	97	0.00	0.0	5.873	0.032	0	0	0	2
PL.44767	PL.44766	A	6 A (CWC)	7.47Y	124.5	0.00	0.46	0.00	0	0	0	100	0.00	0.0	5.979	0.106	0	0	0	0
PL.44768	PL.44766	A	#4 ACSR	7.47Y	124.5	0.00	0.46	2.25	2	16	4	97	0.00	0.0	5.907	0.034	16	4	2	2

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Balanced Voltage Drop Report
Source: Maplesville

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.44769	PL.44768	A	#4 ACSR	7.47Y	124.5	0.00	0.46	0.00	0	0	0	100	0.00	0.0	5.927	0.020	0	0	0	0
PL.64703	PL.64701	A	#1/0 ACSR	7.51Y	125.2	0.00	-0.18	1.48	1	11	3	96	0.00	0.0	4.919	0.039	11	3	2	2
PL.41988	PL.41985	A	#1/0 ACSR	7.51Y	125.2	0.00	-0.23	1.54	1	11	3	96	0.00	0.0	4.827	0.006	0	0	0	2
PD.6945	PL.41988	A	40QA	7.51Y	125.2	0.00	-0.23	1.54	4	11	3	96	0.00	0.0	4.827	0.006	0	0	0	2
PL.41989	PD.6945	A	#1/0 ACSR	7.51Y	125.2	0.00	-0.23	1.54	1	11	3	96	0.00	0.0	4.853	0.027	11	3	2	2
PL.41986	PL.41985	C	#1/0 ACSR	7.51Y	125.2	0.00	-0.23	0.00	0	0	0	100	0.00	0.0	4.827	0.006	0	0	0	0
PD.6878	PL.41986	C	40QA	7.51Y	125.2	0.00	-0.23	0.00	0	0	0	100	0.00	0.0	4.827	0.006	0	0	0	0
PL.41987	PD.6878	C	#1/0 ACSR	7.51Y	125.2	0.00	-0.23	0.00	0	0	0	100	0.00	0.0	4.861	0.034	0	0	0	0
PL.44492	PL.44491	A	#4 ACSR	7.10Y	118.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	4.630	0.006	0	0	0	0
PD.6946	PL.44492	A	40QA	7.10Y	118.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	4.630	0.006	0	0	0	0
PL.44493	PD.6946	A	#4 ACSR	7.10Y	118.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	4.669	0.039	0	0	0	0
PL.44494	PL.44491	A	#4 ACSR	7.10Y	118.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	4.630	0.006	0	0	0	0
PD.6841	PL.44494	A	40QA	7.10Y	118.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	4.630	0.006	0	0	0	0
PL.44495	PD.6841	A	#4 ACSR	7.10Y	118.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	4.731	0.100	0	0	0	0
PL.44488	PL.44487	A	6 A (CWC)	7.11Y	118.5	0.00	6.46	3.62	3	25	7	96	0.00	0.0	4.386	0.006	0	0	0	4
PD.6909	PL.44488	A	40QA	7.11Y	118.5	0.00	6.46	3.62	9	25	7	96	0.00	0.0	4.386	0.006	0	0	0	4
PL.44489	PD.6909	A	6 A (CWC)	7.11Y	118.5	0.00	6.46	3.62	3	25	7	96	0.00	0.0	4.411	0.025	9	2	1	4
PL.44490	PL.44489	A	6 A (CWC)	7.11Y	118.5	0.00	6.46	2.31	2	16	4	97	0.00	0.0	4.462	0.051	16	4	3	3
PL.44484	PL.56293	C	#1/0 ACSR	7.12Y	118.6	0.00	6.37	0.00	0	0	0	100	0.00	0.0	4.286	0.006	0	0	0	0
PD.6842	PL.44484	C	40QA	7.12Y	118.6	0.00	6.37	0.00	0	0	0	100	0.00	0.0	4.286	0.006	0	0	0	0
PL.44485	PD.6842	C	#1/0 ACSR	7.12Y	118.6	0.00	6.37	0.00	0	0	0	100	0.00	0.0	4.294	0.008	0	0	0	0
PL.56297	PL.56291	B	6 A (CWC)	7.12Y	118.7	0.00	6.29	21.64	15	149	39	97	0.00	0.0	4.196	0.004	0	0	0	22
PD.8360	PL.56297	B	30T	7.12Y	118.7	0.00	6.29	21.64	0	149	39	97	0.00	0.0	4.196	0.004	0	0	0	22
PL.56294	PD.8360	B	6 A (CWC)	7.12Y	118.7	0.00	6.30	21.64	15	149	39	97	0.00	0.0	4.199	0.004	14	4	1	22
PL.56295	PL.56294	B	6 A (CWC)	7.12Y	118.7	0.01	6.30	3.76	3	26	7	97	0.00	0.0	4.232	0.033	1	0	1	3
PL.56296	PL.56295	B	6 A (CWC)	7.12Y	118.7	0.00	6.31	3.58	3	25	6	97	0.00	0.0	4.263	0.030	25	6	2	2
PL.56292	PL.56294	B	6 A (CWC)	7.12Y	118.6	0.07	6.37	15.80	11	109	29	97	0.06	0.1	4.301	0.102	0	0	0	18
PL.44472	PL.56292	B	6 A (CWC)	7.12Y	118.6	0.04	6.41	15.80	11	109	29	97	0.03	0.0	4.353	0.053	0	0	0	18
PL.42933	PL.44472	B	#4 ACSR	7.12Y	118.6	0.00	6.41	1.95	2	13	4	96	0.00	0.0	4.394	0.040	13	4	1	1
PL.44475	PL.44472	B	6 A (CWC)	7.11Y	118.5	0.06	6.47	11.66	8	80	21	97	0.04	0.0	4.469	0.116	4	1	2	13
PL.44476	PL.44475	B	6 A (CWC)	7.11Y	118.5	0.03	6.50	11.14	8	77	20	97	0.02	0.0	4.524	0.055	0	0	0	11

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Balanced Voltage Drop Report
Source: Maplesville

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.59817	PL.44476	B	#1/0 ACSR	7.11Y	118.5	0.00	6.50	1.50	1	10	3	96	0.00	0.0	4.627	0.103	10	3	1	1
PL.59818	PL.59817	B	#1/0 ACSR	7.11Y	118.5	0.00	6.50	0.00	0	0	0	100	0.00	0.0	4.729	0.102	0	0	0	0
PL.44477	PL.44476	B	6 A (CWC)	7.11Y	118.5	0.02	6.52	7.93	6	55	14	97	0.01	0.0	4.591	0.067	6	2	1	8
PL.44478	PL.44477	B	6 A (CWC)	7.11Y	118.4	0.06	6.58	7.07	5	49	13	97	0.02	0.0	4.784	0.193	6	2	1	7
PL.44479	PL.44478	B	6 A (CWC)	7.10Y	118.4	0.03	6.61	6.20	4	43	11	97	0.01	0.0	4.906	0.122	0	0	0	6
PL.43797	PL.44479	B	#4 ACSR	7.10Y	118.4	0.00	6.61	1.42	1	10	3	96	0.00	0.0	4.966	0.060	10	3	1	1
PL.44480	PL.44479	B	6 A (CWC)	7.10Y	118.4	0.01	6.62	4.77	3	33	9	96	0.00	0.0	4.947	0.041	1	0	1	5
PL.44481	PL.44480	B	6 A (CWC)	7.10Y	118.4	0.01	6.64	4.68	3	32	8	97	0.00	0.0	5.017	0.070	0	0	1	4
PL.44482	PL.44481	B	6 A (CWC)	7.10Y	118.3	0.02	6.66	4.66	3	32	8	97	0.01	0.0	5.126	0.109	0	0	0	3
PL.44483	PL.44482	B	6 A (CWC)	7.10Y	118.3	0.00	6.66	1.22	1	8	2	97	0.00	0.0	5.205	0.079	8	2	1	1
PL.43603	PL.44482	B	#4 ACSR	7.10Y	118.3	0.01	6.67	3.44	3	24	6	97	0.00	0.0	5.294	0.168	24	6	2	2
PL.41997	PL.44476	B	#2 ACSR	7.11Y	118.5	0.00	6.50	1.67	1	11	3	96	0.00	0.0	4.568	0.044	11	3	1	1
PL.72543	PL.44476	B	#1/0 ACSR	7.11Y	118.5	0.00	6.50	0.04	0	0	0	100	0.00	0.0	4.589	0.065	0	0	1	1
PL.72544	PL.72543	B	#1/0 ACSR	7.11Y	118.5	0.00	6.50	0.00	0	0	0	100	0.00	0.0	4.589	0.000	0	0	0	0
PL.63484	PL.44475	B	#1/0 ACSR	7.11Y	118.5	0.00	6.47	0.00	0	0	0	100	0.00	0.0	4.472	0.003	0	0	0	0
PD.9521	PL.63484	B	15T	7.11Y	118.5	0.00	6.47	0.00	0	0	0	100	0.00	0.0	4.472	0.003	0	0	0	0
PL.63485	PD.9521	B	#1/0 ACSR	7.11Y	118.5	0.00	6.47	0.00	0	0	0	100	0.00	0.0	4.500	0.028	0	0	0	0
PL.64534	PL.63485	B	1/0 AL URD	7.11Y	118.5	0.00	6.47	0.00	0	0	0	100	0.00	0.0	4.570	0.070	0	0	0	0
PL.44473	PL.44472	B	6 A (CWC)	7.12Y	118.6	0.00	6.41	2.19	2	15	4	97	0.00	0.0	4.359	0.006	0	0	0	4
PD.6948	PL.44473	B	40QA	7.12Y	118.6	0.00	6.41	2.19	5	15	4	97	0.00	0.0	4.359	0.006	0	0	0	4
PL.44474	PD.6948	B	6 A (CWC)	7.12Y	118.6	0.00	6.41	2.19	2	15	4	97	0.00	0.0	4.383	0.024	7	2	1	4
PL.64528	PL.44474	B	6 A (CWC)	7.12Y	118.6	0.00	6.41	1.23	1	8	2	97	0.00	0.0	4.444	0.061	0	0	0	3
PL.64530	PL.64528	B	#1/0 ACSR	7.12Y	118.6	0.00	6.42	0.95	0	7	2	96	0.00	0.0	4.523	0.080	7	2	2	2
PL.64529	PL.64528	B	6 A (CWC)	7.12Y	118.6	0.00	6.41	0.28	0	2	1	89	0.00	0.0	4.521	0.078	2	1	1	1
PL.43900	PL.44274	ABC	#4 ACSR	7.14Y	119.0	0.00	6.00	2.90	2	59	20	95	0.00	0.0	4.068	0.006	0	0	0	6
PD.6937	PL.43900	ABC	40QA	7.14Y	119.0	0.00	6.00	2.90	7	59	20	95	0.00	0.0	4.068	0.006	0	0	0	6
PL.44415	PD.6937	ABC	#4 ACSR	7.14Y	119.0	0.02	6.02	2.90	2	59	20	95	0.01	0.0	4.205	0.137	0	0	0	6
PL.42977	PL.44415	C	#4 ACSR	7.14Y	119.0	0.01	6.03	2.50	2	17	5	96	0.00	0.0	4.399	0.194	17	5	2	2
PL.44416	PL.44415	ABC	#4 ACSR	7.14Y	119.0	0.00	6.02	1.00	1	21	5	97	0.00	0.0	4.320	0.114	13	3	1	3
PL.44417	PL.44416	ABC	#4 ACSR	7.14Y	119.0	0.00	6.02	0.37	0	8	2	97	0.00	0.0	4.377	0.057	5	1	1	2
PL.44418	PL.44417	ABC	#4 ACSR	7.14Y	119.0	0.00	6.02	0.14	0	3	1	95	0.00	0.0	4.446	0.069	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: Maplesville

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.43773	PL.44415	ABC	#4 ACSR	7.14Y	119.0	0.00	6.02	1.07	1	21	10	90	0.00	0.0	4.278	0.072	21	10	1	1
PL.44746	PL.44274	A	6 A (CWC)	7.14Y	119.0	0.00	6.00	2.37	2	16	4	97	0.00	0.0	4.068	0.006	0	0	0	2
PD.6965	PL.44746	A	40QA	7.14Y	119.0	0.00	6.00	2.37	6	16	4	97	0.00	0.0	4.068	0.006	0	0	0	2
PL.43901	PD.6965	A	6 A (CWC)	7.14Y	119.0	0.01	6.01	2.37	2	16	4	97	0.00	0.0	4.176	0.108	5	1	1	2
PL.43902	PL.43901	A	6 A (CWC)	7.14Y	119.0	0.00	6.02	1.69	1	12	3	97	0.00	0.0	4.214	0.038	12	3	1	1
PL.43588	PL.43587	A	6 A (CWC)	7.15Y	119.2	0.00	5.78	3.62	3	25	7	96	0.00	0.0	3.858	0.006	0	0	0	2
PD.6964	PL.43588	A	40QA	7.15Y	119.2	0.00	5.78	3.62	9	25	7	96	0.00	0.0	3.858	0.006	0	0	0	2
PL.44271	PD.6964	A	6 A (CWC)	7.15Y	119.2	0.01	5.79	3.62	3	25	7	96	0.00	0.0	3.951	0.093	17	4	1	2
PL.44272	PL.44271	A	6 A (CWC)	7.15Y	119.2	0.01	5.79	1.18	1	8	2	97	0.00	0.0	4.170	0.219	8	2	1	1
PL.43602	PL.42003	B	#2 ACSR	7.16Y	119.3	0.00	5.71	0.00	0	0	0	100	0.00	0.0	3.869	0.074	0	0	0	0
PL.43911	PL.43909	C	#4 ACSR	7.23Y	120.5	0.00	4.55	0.86	1	6	2	95	0.00	0.0	2.863	0.006	0	0	0	2
PD.6901	PL.43911	C	40QA	7.23Y	120.5	0.00	4.55	0.86	2	6	2	95	0.00	0.0	2.863	0.006	0	0	0	2
PL.43912	PD.6901	C	#4 ACSR	7.23Y	120.5	0.00	4.55	0.86	1	6	2	95	0.00	0.0	2.900	0.038	6	2	2	2
PL.43907	PL.43906	C	#4 ACSR	7.23Y	120.6	0.00	4.42	1.06	1	7	2	96	0.00	0.0	2.774	0.006	0	0	0	1
PD.6970	PL.43907	C	40QA	7.23Y	120.6	0.00	4.42	1.06	3	7	2	96	0.00	0.0	2.774	0.006	0	0	0	1
PL.43908	PD.6970	C	#4 ACSR	7.23Y	120.6	0.00	4.42	1.06	1	7	2	96	0.00	0.0	2.821	0.048	7	2	1	1
PL.43904	PL.43903	C	#4 ACSR	7.24Y	120.7	0.00	4.32	2.90	2	20	5	97	0.00	0.0	2.703	0.006	0	0	0	2
PD.6956	PL.43904	C	40QA	7.24Y	120.7	0.00	4.32	2.90	7	20	5	97	0.00	0.0	2.703	0.006	0	0	0	2
PL.43905	PD.6956	C	#4 ACSR	7.24Y	120.7	0.00	4.32	2.90	2	20	5	97	0.00	0.0	2.752	0.049	20	5	2	2
PL.59804	PL.59805	A	#4 ACSR	7.31Y	121.9	0.00	3.09	2.90	2	21	5	97	0.00	0.0	1.907	0.054	21	5	2	2
PL.44264	PL.44147	B	#2 ACSR	7.35Y	122.4	0.00	2.57	1.90	1	14	4	96	0.00	0.0	1.556	0.037	14	4	2	2
PL.42511	PL.44147	B	#2 ACSR	7.35Y	122.4	0.00	2.57	1.05	1	7	2	96	0.00	0.0	1.580	0.061	7	2	1	1
PL.44145	PL.44144	C	#2 ACSR	7.35Y	122.5	0.00	2.51	0.00	0	0	0	100	0.00	0.0	1.485	0.006	0	0	0	0
PD.6843	PL.44145	C	30QA	7.35Y	122.5	0.00	2.51	0.00	0	0	0	100	0.00	0.0	1.485	0.006	0	0	0	0
PL.44146	PD.6843	C	#2 ACSR	7.35Y	122.5	0.00	2.51	0.00	0	0	0	100	0.00	0.0	1.590	0.105	0	0	0	0
PL.42935	PL.44143	A	#4 ACSR	7.35Y	122.6	0.00	2.44	0.79	1	6	1	99	0.00	0.0	1.502	0.068	6	1	1	1
PL.44434	PL.44433	B	#2 ACSR	7.37Y	122.8	0.04	2.22	42.73	24	304	82	97	0.09	0.0	1.294	0.032	0	0	0	38
PL.43554	PL.44434	B	#2 ACSR	7.37Y	122.8	0.00	2.22	0.34	0	2	1	89	0.00	0.0	1.331	0.037	2	1	1	1
PL.44435	PL.44434	B	#2 ACSR	7.37Y	122.8	0.03	2.25	42.38	24	301	81	97	0.06	0.0	1.314	0.020	0	0	0	37
PL.44436	PL.44435	B	6 A (CWC)	7.36Y	122.7	0.01	2.26	42.38	30	301	81	97	0.02	0.0	1.319	0.006	0	0	0	37
PD.6825	PL.44436	B	70L	7.36Y	122.7	0.00	2.26	42.38	61	301	81	97	0.00	0.0	1.319	0.006	0	0	0	37

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: Maplesville

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.44437	PD.6825	B	6 A (CWC)	7.36Y	122.6	0.10	2.35	42.38	30	301	81	97	0.22	0.1	1.369	0.050	0	0	0	37
PL.44157	PL.44437	B	#4 ACSR	7.36Y	122.6	0.00	2.36	1.46	1	10	3	96	0.00	0.0	1.495	0.126	10	3	1	1
PL.44438	PL.44437	B	6 A (CWC)	7.33Y	122.2	0.47	2.82	40.92	29	291	78	97	1.03	0.4	1.622	0.253	0	0	0	36
PL.44439	PL.44438	B	6 A (CWC)	7.32Y	122.1	0.10	2.92	38.86	28	275	74	97	0.21	0.1	1.678	0.057	0	0	0	35
PL.42514	PL.44439	B	#2 ACSR	7.32Y	122.1	0.00	2.92	0.00	0	0	0	100	0.00	0.0	1.764	0.085	0	0	0	0
PL.43075	PL.44439	B	6 A (CWC)	7.32Y	122.1	0.00	2.92	0.00	0	0	0	100	0.00	0.0	1.773	0.095	0	0	0	0
PL.44440	PL.44439	B	6 A (CWC)	7.32Y	122.0	0.09	3.02	38.86	28	275	74	97	0.19	0.1	1.732	0.053	10	3	1	35
PL.44441	PL.44440	B	6 A (CWC)	7.30Y	121.7	0.25	3.27	36.64	26	259	70	97	0.48	0.2	1.883	0.151	9	2	2	33
PL.44442	PL.44441	B	6 A (CWC)	7.30Y	121.6	0.14	3.41	35.30	25	249	67	97	0.26	0.1	1.969	0.087	0	0	0	31
PL.44443	PL.44442	B	6 A (CWC)	7.28Y	121.4	0.18	3.59	35.30	25	249	67	97	0.34	0.1	2.088	0.118	15	4	2	31
PL.44444	PL.44443	B	6 A (CWC)	7.28Y	121.3	0.15	3.74	31.77	23	224	60	97	0.26	0.1	2.193	0.105	0	0	0	28
PL.44445	PL.44444	B	6 A (CWC)	7.27Y	121.2	0.10	3.84	30.83	22	217	58	97	0.16	0.1	2.264	0.072	4	1	1	27
PL.44087	PL.44445	B	6 A (CWC)	7.26Y	121.1	0.08	3.93	29.17	21	205	55	97	0.13	0.1	2.328	0.063	0	0	0	25
PL.59813	PL.44087	B	#1/0 ACSR	7.26Y	121.1	0.00	3.93	1.82	1	13	3	97	0.00	0.0	2.346	0.018	13	3	1	1
PL.44088	PL.44087	B	6 A (CWC)	7.26Y	121.0	0.04	3.96	27.35	20	192	51	97	0.05	0.0	2.357	0.030	0	0	0	24
PL.44089	PL.44088	B	6 A (CWC)	7.26Y	121.0	0.07	4.03	27.35	20	192	51	97	0.10	0.1	2.414	0.057	0	0	0	24
PL.44090	PL.44089	B	6 A (CWC)	7.23Y	120.6	0.41	4.45	27.35	20	192	51	97	0.60	0.3	2.744	0.330	0	0	0	24
PL.44091	PL.44090	B	6 A (CWC)	7.23Y	120.5	0.10	4.55	26.94	19	188	50	97	0.14	0.1	2.825	0.082	0	0	0	23
PL.43575	PL.44091	B	#2 ACSR	7.23Y	120.5	0.00	4.55	0.00	0	0	0	100	0.00	0.0	2.901	0.076	0	0	1	1
PL.44092	PL.44091	B	#4 ACSR	7.19Y	119.9	0.57	5.11	26.93	21	188	50	97	0.81	0.4	3.316	0.490	12	3	1	22
PL.64815	PL.44092	B	6 A (CWC)	7.19Y	119.8	0.07	5.18	13.01	9	90	24	97	0.05	0.1	3.427	0.111	0	0	0	13
PL.64816	PL.64815	B	6 A (CWC)	7.19Y	119.8	0.00	5.18	13.01	9	90	24	97	0.00	0.0	3.427	0.000	8	2	1	13
PL.64817	PL.64816	B	6 A (CWC)	7.18Y	119.7	0.09	5.27	11.83	8	82	22	97	0.06	0.1	3.600	0.173	0	0	0	12
PL.43488	PL.64817	B	6 A (CWC)	7.18Y	119.7	0.03	5.30	11.83	8	82	22	97	0.02	0.0	3.653	0.053	0	0	0	12
PL.43491	PL.43488	B	#4 ACSR	7.18Y	119.7	0.01	5.32	7.85	6	55	14	97	0.01	0.0	3.700	0.047	10	3	1	5
PL.43290	PL.43491	B	#4 ACSR	7.18Y	119.7	0.01	5.33	6.46	5	45	12	97	0.00	0.0	3.731	0.031	0	0	0	4
PL.57910	PL.43290	B	#4 ACSR	7.18Y	119.7	0.01	5.34	5.84	4	41	11	97	0.00	0.0	3.781	0.050	0	0	0	3
PL.57911	PL.57910	B	#4 ACSR	7.18Y	119.6	0.05	5.39	5.84	4	41	11	97	0.02	0.0	3.998	0.217	4	1	1	3
PL.43291	PL.57911	B	#4 ACSR	7.17Y	119.6	0.05	5.45	5.29	4	37	10	97	0.01	0.0	4.219	0.221	0	0	0	2
PL.43292	PL.43291	B	#4 ACSR	7.17Y	119.6	0.00	5.45	0.00	0	0	0	100	0.00	0.0	4.318	0.099	0	0	0	0
PL.42979	PL.43292	B	#4 ACSR	7.17Y	119.6	0.00	5.45	0.00	0	0	0	100	0.00	0.0	4.487	0.170	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: Maplesville

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.43293	PL.43291	B	#4 ACSR	7.17Y	119.5	0.01	5.46	5.29	4	37	10	97	0.00	0.0	4.281	0.062	21	5	1	2
PL.43294	PL.43293	B	#4 ACSR	7.17Y	119.5	0.00	5.46	2.31	2	16	4	97	0.00	0.0	4.355	0.074	16	4	1	1
PL.43492	PL.43290	B	#4 ACSR	7.18Y	119.7	0.00	5.33	0.63	0	4	1	97	0.00	0.0	3.913	0.182	4	1	1	1
PL.43489	PL.43488	B	#4 ACSR	7.18Y	119.7	0.02	5.32	3.59	3	25	7	96	0.00	0.0	3.751	0.098	0	0	0	5
PL.43018	PL.43489	B	#4 ACSR	7.18Y	119.7	0.00	5.32	1.58	1	11	3	96	0.00	0.0	3.861	0.110	11	3	1	1
PL.43490	PL.43489	B	#4 ACSR	7.18Y	119.7	0.00	5.32	0.88	1	6	2	95	0.00	0.0	3.810	0.059	1	0	1	3
PL.63194	PL.43490	B	#1/0 ACSR	7.18Y	119.7	0.01	5.33	0.78	0	5	1	98	0.00	0.0	4.149	0.339	0	0	0	2
PL.63196	PL.63194	B	#1/0 ACSR	7.18Y	119.7	0.00	5.33	0.00	0	0	0	100	0.00	0.0	4.261	0.112	0	0	1	1
PL.63195	PL.63194	B	#1/0 ACSR	7.18Y	119.7	0.00	5.33	0.77	0	5	1	98	0.00	0.0	4.256	0.107	5	1	1	1
PL.52085	PL.63195	B	#1/0 ACSR	7.18Y	119.7	0.00	5.33	0.00	0	0	0	100	0.00	0.0	4.315	0.060	0	0	0	0
PL.42509	PL.43489	B	#4 ACSR	7.18Y	119.7	0.00	5.32	1.13	1	8	2	97	0.00	0.0	3.802	0.051	8	2	1	1
PL.43568	PL.43488	B	#4 ACSR	7.18Y	119.7	0.00	5.31	0.39	0	3	1	95	0.00	0.0	3.886	0.233	2	1	1	2
PL.52086	PL.43568	B	#2 ACSR	7.18Y	119.7	0.00	5.31	0.08	0	1	0	100	0.00	0.0	3.964	0.078	0	0	0	1
PL.52087	PL.52086	B	#2 ACSR	7.18Y	119.7	0.00	5.31	0.08	0	1	0	100	0.00	0.0	4.055	0.091	1	0	1	1
PL.44093	PL.44092	B	6 A (CWC)	7.19Y	119.9	0.02	5.14	12.26	9	85	22	97	0.02	0.0	3.360	0.044	0	0	0	8
PL.64711	PL.44093	B	6 A (CWC)	7.19Y	119.8	0.02	5.16	12.26	9	85	22	97	0.02	0.0	3.403	0.043	0	0	0	8
PL.64712	PL.64711	B	6 A (CWC)	7.19Y	119.8	0.01	5.18	9.79	7	68	18	97	0.01	0.0	3.434	0.031	3	1	1	7
PL.44329	PL.64712	B	6 A (CWC)	7.19Y	119.8	0.07	5.24	9.37	7	65	17	97	0.03	0.1	3.593	0.159	3	1	1	6
PL.44094	PL.44329	B	6 A (CWC)	7.18Y	119.7	0.03	5.28	8.93	6	62	16	97	0.01	0.0	3.679	0.086	12	3	1	5
PL.44095	PL.44094	B	6 A (CWC)	7.18Y	119.7	0.03	5.31	4.46	3	31	8	97	0.01	0.0	3.863	0.184	11	3	1	3
PL.44096	PL.44095	B	6 A (CWC)	7.18Y	119.7	0.02	5.32	2.87	2	20	5	97	0.00	0.0	3.997	0.134	0	0	0	2
PL.44097	PL.44096	B	6 A (CWC)	7.18Y	119.7	0.00	5.32	0.60	0	4	1	97	0.00	0.0	4.087	0.090	4	1	1	1
PL.43295	PL.44096	B	6 A (CWC)	7.18Y	119.7	0.01	5.33	2.27	2	16	4	97	0.00	0.0	4.166	0.169	16	4	1	1
PL.43019	PL.44094	B	6 A (CWC)	7.18Y	119.7	0.01	5.28	2.68	2	19	5	97	0.00	0.0	3.770	0.091	19	5	1	1
PL.64713	PL.64711	B	#1/0 ACSR	7.19Y	119.8	0.00	5.16	2.46	1	17	5	96	0.00	0.0	3.415	0.012	17	5	1	1
PL.43574	PL.44090	B	#4 ACSR	7.23Y	120.6	0.00	4.45	0.42	0	3	1	95	0.00	0.0	2.822	0.078	3	1	1	1
PL.44203	PL.44445	B	#4 ACSR	7.27Y	121.2	0.00	3.84	1.14	1	8	2	97	0.00	0.0	2.356	0.092	8	2	1	1
PL.42975	PL.44444	B	#4 ACSR	7.28Y	121.3	0.00	3.74	0.94	1	7	2	96	0.00	0.0	2.253	0.060	7	2	1	1
PL.59808	PL.44443	B	#1/0 ACSR	7.28Y	121.4	0.00	3.59	1.37	1	10	3	96	0.00	0.0	2.170	0.082	10	3	1	1
PL.43078	PL.44440	B	#4 ACSR	7.32Y	122.0	0.00	3.02	0.84	1	6	2	95	0.00	0.0	1.777	0.045	6	2	1	1
PL.44172	PL.44438	B	#2 ACSR	7.33Y	122.2	0.01	2.83	2.06	1	15	4	97	0.00	0.0	1.828	0.206	15	4	1	1

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

Balanced Voltage Drop Report
Source: Maplesville

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.41996	PL.44437	B	#4 ACSR	7.36Y	122.6	0.00	2.35	0.00	0	0	0	100	0.00	0.0	1.434	0.065	0	0	0	0
PL.62862	PL.44136	B	#2 ACSR	7.44Y	124.0	0.02	1.01	22.32	13	161	42	97	0.03	0.0	0.589	0.033	0	0	0	19
PD.9435	PL.62862	B	50L	7.44Y	124.0	0.00	1.01	22.32	45	161	42	97	0.00	0.0	0.589	0.033	0	0	0	19
PL.62863	PD.9435	B	#2 ACSR	7.44Y	123.9	0.07	1.08	22.32	13	161	42	97	0.08	0.0	0.688	0.099	7	2	1	19
PL.43408	PL.62863	B	6 A (CWC)	7.43Y	123.8	0.09	1.17	21.33	15	153	41	97	0.10	0.1	0.780	0.092	0	0	0	18
PL.62861	PL.43408	B	6 A (CWC)	7.43Y	123.8	0.07	1.24	21.33	15	153	40	97	0.07	0.0	0.852	0.072	18	5	1	18
PL.43877	PL.62861	B	6 A (CWC)	7.42Y	123.7	0.03	1.26	18.83	13	135	36	97	0.03	0.0	0.886	0.034	11	3	1	17
PL.43878	PL.43877	B	6 A (CWC)	7.42Y	123.7	0.06	1.32	17.24	12	124	33	97	0.05	0.0	0.958	0.071	0	0	0	16
PL.44252	PL.43878	B	#4 ACSR	7.42Y	123.7	0.00	1.32	1.08	1	8	2	97	0.00	0.0	1.081	0.124	8	2	2	2
PL.43879	PL.43878	B	#4 ACSR	7.42Y	123.7	0.01	1.33	1.54	1	11	3	96	0.00	0.0	1.089	0.131	4	1	1	2
PL.43880	PL.43879	B	#4 ACSR	7.42Y	123.7	0.00	1.33	0.92	1	7	2	96	0.00	0.0	1.181	0.093	7	2	1	1
PL.43881	PL.43878	B	6 A (CWC)	7.41Y	123.6	0.13	1.45	14.62	10	105	28	97	0.09	0.1	1.165	0.208	19	5	1	12
PL.43882	PL.43881	B	6 A (CWC)	7.41Y	123.5	0.01	1.46	2.97	2	21	6	96	0.00	0.0	1.234	0.068	0	0	0	2
PL.44029	PL.43882	B	6 A (CWC)	7.41Y	123.5	0.00	1.46	2.97	2	21	6	96	0.00	0.0	1.290	0.056	21	6	2	2
PL.44030	PL.43881	B	6 A (CWC)	7.41Y	123.5	0.03	1.47	9.02	6	65	17	97	0.01	0.0	1.236	0.070	0	0	0	9
PL.44031	PL.44030	B	6 A (CWC)	7.41Y	123.5	0.01	1.48	7.95	6	57	15	97	0.00	0.0	1.256	0.020	12	3	2	8
PL.44032	PL.44031	B	6 A (CWC)	7.41Y	123.5	0.01	1.50	6.30	4	45	12	97	0.00	0.0	1.317	0.061	15	4	1	6
PL.44033	PL.44032	B	6 A (CWC)	7.41Y	123.5	0.01	1.51	4.23	3	30	8	97	0.00	0.0	1.373	0.056	0	0	0	5
PL.44034	PL.44033	B	6 A (CWC)	7.41Y	123.5	0.00	1.51	2.52	2	18	5	96	0.00	0.0	1.418	0.045	3	1	1	4
PL.43986	PL.44034	B	6 A (CWC)	7.41Y	123.5	0.00	1.51	1.17	1	8	2	97	0.00	0.0	1.506	0.087	8	2	2	2
PL.64094	PL.44034	B	6 A (CWC)	7.41Y	123.5	0.00	1.52	0.89	1	6	2	95	0.00	0.0	1.506	0.088	0	0	0	1
PL.64096	PL.64094	B	#1/0 ACSR	7.41Y	123.5	0.00	1.52	0.89	0	6	2	95	0.00	0.0	1.579	0.072	6	2	1	1
PL.64095	PL.64094	B	6 A (CWC)	7.41Y	123.5	0.00	1.52	0.00	0	0	0	100	0.00	0.0	1.621	0.114	0	0	0	0
PL.42510	PL.44033	B	#4 ACSR	7.41Y	123.5	0.00	1.51	1.71	1	12	3	97	0.00	0.0	1.428	0.055	12	3	1	1
PL.43601	PL.44030	B	6 A (CWC)	7.41Y	123.5	0.00	1.48	1.08	1	8	2	97	0.00	0.0	1.300	0.064	8	2	1	1
PL.62465	PL.44136	C	#2 ACSR	7.44Y	124.0	0.00	0.99	1.51	1	11	3	96	0.00	0.0	0.560	0.003	0	0	0	1
PD.9345	PL.62465	C	20T	7.44Y	124.0	0.00	0.99	1.51	0	11	3	96	0.00	0.0	0.560	0.003	0	0	0	1
PL.62466	PD.9345	C	#2 ACSR	7.44Y	124.0	0.00	0.99	1.51	1	11	3	96	0.00	0.0	0.626	0.067	11	3	1	1
PL.43796	PL.44136	B	#2 ACSR	7.44Y	124.0	0.00	0.99	2.76	2	20	5	97	0.00	0.0	0.608	0.051	20	5	1	1
PL.44251	PL.44135	C	#2 ACSR	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	0.508	0.017	0	0	0	0
PL.44165	PL.44164	C	#2 ACSR	7.49Y	124.8	0.00	0.16	5.47	3	40	10	97	0.00	0.0	0.092	0.006	0	0	0	4

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Balanced Voltage Drop Report
Source: Maplesville

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.6944	PL.44165	C	60QA	7.49Y	124.8	0.00	0.16	5.47	9	40	10	97	0.00	0.0	0.092	0.006	0	0	0	4
PL.63152	PD.6944	C	#2 ACSR	7.49Y	124.8	0.02	0.18	5.47	3	40	10	97	0.01	0.0	0.219	0.126	0	0	0	4
PL.63154	PL.63152	C	#1/0 ACSR	7.49Y	124.8	0.00	0.18	0.00	0	0	0	100	0.00	0.0	0.246	0.027	0	0	0	0
PL.63155	PL.63154	C	#1/0 ACSR	7.49Y	124.8	0.00	0.18	0.00	0	0	0	100	0.00	0.0	0.274	0.028	0	0	0	0
PL.63153	PL.63152	C	#2 ACSR	7.49Y	124.8	0.01	0.19	5.47	3	40	10	97	0.00	0.0	0.271	0.053	0	0	0	4
PL.57684	PL.63153	C	#2 ACSR	7.49Y	124.8	0.00	0.19	1.23	1	9	2	98	0.00	0.0	0.522	0.251	9	2	1	1
PL.59795	PL.63153	C	#2 ACSR	7.49Y	124.8	0.00	0.19	4.24	2	31	8	97	0.00	0.0	0.303	0.032	0	0	0	3
PL.59797	PL.59795	C	#1/0 ACSR	7.49Y	124.8	0.00	0.19	1.83	1	13	4	96	0.00	0.0	0.363	0.060	13	4	1	1
PL.59796	PL.59795	C	#2 ACSR	7.49Y	124.8	0.00	0.19	2.40	1	17	5	96	0.00	0.0	0.344	0.041	17	5	2	2

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	10543	0	0	0	0	0	550	0.00	11093
KVAR	2856	0	0	0	0	0	790		3646

Lowest Voltage = 118.24 on Element PL.41984
Max Accm VoltD = 6.76 on Element PL.41984
Max Elem VoltD = 0.90 on Element PL.43781