Balanced Voltage Drop Report
Source: Hargett

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
Hargett		ABC	SRC-Harget	7.50Y	125.0	0.00	0.00	341.80	0	7303	2412	95	0.00	0.0	0.000	0.000	0	0	0	1396
PL.21528	Hargett	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	55.55	11	1194	369	96	0.00	0.0	0.005	0.005	0	0	0	246
PL.72940	PL.21528	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	55.55	11	1194	369	96	0.00	0.0	0.009	0.004	0	0	0	246
---------- Feeder No. 1 (SpoutSpring F1) Beginning with Device PD.11206 ----------																				
PD.11206	PL.72940	ABC	360VWE	7.50Y	125.0	0.00	0.00	55.55	0	1194	369	96	0.00	0.0	0.009	0.004	0	0	0	246
PL.21529	PD.11206	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	55.55	11	1194	369	96	0.00	0.0	0.018	0.009	0	0	0	246
PL.21676	PL.21529	B	#4 ACSR	7.50Y	125.0	0.00	0.00	1.58	1	11	3	96	0.00	0.0	0.022	0.005	0	0	0	2
PD.3093	PL.21676	B	65T	7.50Y	125.0	0.00	0.00	1.58	0	11	3	96	0.00	0.0	0.022	0.005	0	0	0	2
PL.21677	PD.3093	B	#4 ACSR	7.50Y	125.0	0.00	0.00	1.58	1	11	3	96	0.00	0.0	0.048	0.026	6	2	1	2
PL.21608	PL.21677	B	#4 ACSR	7.50Y	125.0	0.00	0.01	0.79	1	6	2	95	0.00	0.0	0.140	0.092	6	2	1	1
PL.21439	PL.21529	ABC	397 SPACER	7.50Y	125.0	0.01	0.02	55.03	11	1183	365	96	0.03	0.0	0.101	0.083	0	0	0	244
PL.21440	PL.21439	ABC	397 SPACER	7.50Y	125.0	0.02	0.03	49.72	10	1069	331	96	0.03	0.0	0.201	0.100	0	0	0	224
PL.21334	PL.21440	ABC	#1/0 ACSR	7.49Y	124.9	0.09	0.13	49.72	22	1069	330	96	0.65	0.1	0.301	0.100	5	2	3	224
PL.21523	PL.21334	ABC	#1/0 ACSR	7.49Y	124.8	0.03	0.16	48.36	21	1039	321	96	0.21	0.0	0.335	0.034	3	1	1	217
PL.21534	PL.21523	ABC	#1/0 ACSR	7.48Y	124.7	0.16	0.31	48.20	21	1035	320	96	1.11	0.1	0.514	0.179	0	0	0	216
PL.21705	PL.21534	B	#4 ACSR	7.48Y	124.7	0.00	0.31	3.37	3	24	7	96	0.00	0.0	0.517	0.003	0	0	0	5
PD.3106	PL.21705	B	35L	7.48Y	124.7	0.00	0.31	3.37	10	24	7	96	0.00	0.0	0.517	0.003	0	0	0	5
PL.21706	PD.3106	B	#4 ACSR	7.48Y	124.7	0.03	0.34	3.37	3	24	7	96	0.00	0.0	0.684	0.167	0	0	0	5
PL.65711	PL.21706	B	#1/0 ACSR	7.48Y	124.7	0.00	0.34	0.00	0	0	0	100	0.00	0.0	0.730	0.046	0	0	0	0
PL.65712	PL.65711	B	1/0 AL URD	7.48Y	124.7	0.00	0.34	0.00	0	0	0	100	0.00	0.0	0.798	0.068	0	0	0	0
PL.21536	PL.21706	B	#4 ACSR	7.48Y	124.6	0.01	0.35	3.37	3	24	7	96	0.00	0.0	0.778	0.094	0	0	0	5
PL.21336	PL.21536	B	6 A (CWC)	7.48Y	124.6	0.03	0.38	3.37	2	24	7	96	0.01	0.0	0.963	0.184	0	0	0	5
PL.21621	PL.21336	B	#4 ACSR	7.48Y	124.6	0.00	0.38	1.39	1	10	3	96	0.00	0.0	0.968	0.005	0	0	0	3
PD.3066	PL.21621	B	15T	7.48Y	124.6	0.00	0.38	1.39	0	10	3	96	0.00	0.0	0.968	0.005	0	0	0	3
PL.21622	PD.3066	B	#4 ACSR	7.48Y	124.6	0.01	0.39	1.39	1	10	3	96	0.00	0.0	1.054	0.086	0	0	0	3
PL.21338	PL.21622	B	#4 ACSR	7.48Y	124.6	0.00	0.39	0.00	0	0	0	100	0.00	0.0	1.190	0.136	0	0	0	0
PL.21339	PL.21622	B	#4 ACSR	7.48Y	124.6	0.01	0.40	1.39	1	10	3	96	0.00	0.0	1.195	0.141	0	0	0	3
PL.21352	PL.21339	B	#4 ACSR	7.48Y	124.6	0.00	0.40	0.59	0	4	1	97	0.00	0.0	1.365	0.170	4	1	1	1
PL.21353	PL.21339	B	#4 ACSR	7.48Y	124.6	0.00	0.40	0.79	1	6	2	95	0.00	0.0	1.296	0.101	0	0	0	2
PL.21497	PL.21353	B	#4 ACSR	7.48Y	124.6	0.00	0.40	0.79	1	6	2	95	0.00	0.0	1.407	0.111	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
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Database: C:\MILSOFT\DATA\2010-2013 WP PROJECTED LOAD PHASE 2 IMPROVEMENTS.WM\
Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.21480	PL.21497	B	#4 ACSR	7.48Y	124.6	0.01	0.41	0.79	1	6	2	95	0.00	0.0	1.576	0.170	0	0	0	2
PL.21481	PL.21480	B	#4 ACSR	7.48Y	124.6	0.00	0.41	0.79	1	6	2	95	0.00	0.0	1.719	0.143	6	2	2	2
PL.21445	PL.21336	B	6 A (CWC)	7.48Y	124.6	0.00	0.38	1.99	1	14	4	96	0.00	0.0	0.993	0.030	3	1	1	2
PL.21337	PL.21445	B	#4 ACSR	7.48Y	124.6	0.00	0.39	1.57	1	11	3	96	0.00	0.0	1.110	0.117	11	3	1	1
PL.21444	PL.21534	ABC	#1/0 ACSR	7.48Y	124.6	0.06	0.37	47.08	20	1010	311	96	0.40	0.0	0.582	0.068	2	1	1	211
PL.21340	PL.21444	ABC	#1/0 ACSR	7.47Y	124.5	0.15	0.52	46.57	20	998	308	96	1.03	0.1	0.761	0.179	0	0	0	209
PL.21446	PL.21340	ABC	#1/0 ACSR	7.46Y	124.4	0.10	0.63	42.68	19	914	282	96	0.62	0.1	0.890	0.129	0	0	0	196
PL.21496	PL.21446	ABC	#1/0 ACSR	7.46Y	124.3	0.06	0.68	42.68	19	913	281	96	0.35	0.0	0.961	0.072	0	0	0	196
PL.21482	PL.21496	ABC	#1/0 ACSR	7.45Y	124.2	0.08	0.76	42.68	19	913	281	96	0.49	0.1	1.062	0.101	3	1	1	196
PL.21344	PL.21482	ABC	#1/0 ACSR	7.45Y	124.2	0.07	0.83	42.56	19	910	279	96	0.42	0.0	1.150	0.087	0	0	1	195
PL.21548	PL.21344	B	6 A (CWC)	7.45Y	124.2	0.02	0.85	14.96	11	107	32	96	0.01	0.0	1.177	0.027	4	1	1	27
PL.21549	PL.21548	B	6 A (CWC)	7.45Y	124.1	0.04	0.89	14.38	10	103	31	96	0.03	0.0	1.244	0.067	0	0	0	26
PL.21348	PL.21549	B	#4 ACSR	7.45Y	124.1	0.00	0.89	0.80	1	6	2	95	0.00	0.0	1.299	0.055	6	2	1	1
PL.21512	PL.21549	B	6 A (CWC)	7.44Y	124.1	0.06	0.95	13.58	10	97	29	96	0.04	0.0	1.338	0.094	1	0	1	25
PL.21511	PL.21512	B	6 A (CWC)	7.44Y	124.0	0.01	0.96	11.75	8	84	25	96	0.01	0.0	1.359	0.021	0	0	0	22
PL.21711	PL.21511	B	6 A (CWC)	7.44Y	124.0	0.00	0.96	11.75	8	84	25	96	0.00	0.0	1.362	0.003	0	0	0	22
PD.3109	PL.21711	B	35L	7.44Y	124.0	0.00	0.96	11.75	34	84	25	96	0.00	0.0	1.362	0.003	0	0	0	22
PL.21712	PD.3109	B	6 A (CWC)	7.44Y	123.9	0.10	1.06	11.75	8	84	25	96	0.06	0.1	1.544	0.183	0	0	1	22
PL.21510	PL.21712	B	#4 ACSR	7.43Y	123.9	0.08	1.14	11.32	9	81	24	96	0.05	0.1	1.695	0.151	0	0	0	19
PL.21351	PL.21510	B	#4 ACSR	7.43Y	123.9	0.00	1.14	1.03	1	7	2	96	0.00	0.0	1.728	0.033	7	2	1	1
PL.21350	PL.21510	B	#4 ACSR	7.43Y	123.8	0.02	1.15	10.29	8	73	22	96	0.01	0.0	1.728	0.033	0	0	0	18
PL.21448	PL.21350	B	#4 ACSR	7.43Y	123.8	0.06	1.21	9.92	8	71	21	96	0.03	0.0	1.867	0.139	0	0	0	17
PL.21358	PL.21448	B	#4 ACSR	7.43Y	123.8	0.02	1.24	5.65	4	40	12	96	0.01	0.0	1.953	0.086	0	0	0	9
PL.21483	PL.21358	B	#4 ACSR	7.42Y	123.7	0.03	1.26	5.65	4	40	12	96	0.01	0.0	2.059	0.107	0	0	0	9
PL.21360	PL.21483	B	#2 ACSR	7.42Y	123.7	0.01	1.27	2.10	1	15	4	97	0.00	0.0	2.187	0.128	4	1	1	4
PL.21361	PL.21360	B	#2 ACSR	7.42Y	123.7	0.00	1.27	1.58	1	11	3	96	0.00	0.0	2.252	0.064	11	3	3	3
PL.21359	PL.21483	B	#2 ACSR	7.42Y	123.7	0.00	1.26	0.53	0	4	1	97	0.00	0.0	2.131	0.072	4	1	1	1
PL.21554	PL.21483	B	#4 ACSR	7.42Y	123.7	0.01	1.27	3.03	2	22	6	96	0.00	0.0	2.130	0.070	10	3	1	4
PL.21555	PL.21554	B	#4 ACSR	7.42Y	123.7	0.01	1.28	1.57	1	11	3	96	0.00	0.0	2.299	0.170	7	2	1	3
PL.21551	PL.21555	B	#4 ACSR	7.42Y	123.7	0.00	1.28	0.59	0	4	1	97	0.00	0.0	2.361	0.061	0	0	0	2
PL.21550	PL.21551	B	#4 ACSR	7.42Y	123.7	0.00	1.28	0.59	0	4	1	97	0.00	0.0	2.479	0.119	4	1	1	2

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Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.21537	PL.21550	B	#4 ACSR	7.42Y	123.7	0.00	1.28	0.02	0	0	0	100	0.00	0.0	2.539	0.059	0	0	1	1
PL.21355	PL.21448	B	#4 ACSR	7.43Y	123.8	0.00	1.21	0.15	0	1	0	100	0.00	0.0	1.983	0.116	1	0	1	1
PL.21552	PL.21448	B	#4 ACSR	7.43Y	123.8	0.01	1.22	4.12	3	29	9	96	0.00	0.0	1.907	0.040	1	0	1	7
PL.21553	PL.21552	B	#4 ACSR	7.43Y	123.8	0.02	1.24	3.94	3	28	8	96	0.00	0.0	2.001	0.094	0	0	0	6
PL.21356	PL.21553	B	#4 ACSR	7.43Y	123.8	0.00	1.24	2.60	2	19	6	95	0.00	0.0	2.068	0.068	19	6	4	4
PL.21357	PL.21553	B	#4 ACSR	7.43Y	123.8	0.00	1.24	1.34	1	10	3	96	0.00	0.0	2.068	0.068	10	3	2	2
PL.21354	PL.21350	B	#4 ACSR	7.43Y	123.8	0.00	1.15	0.37	0	3	1	95	0.00	0.0	1.820	0.092	3	1	1	1
PL.21509	PL.21712	B	#4 ACSR	7.44Y	123.9	0.00	1.06	0.40	0	3	1	95	0.00	0.0	1.609	0.064	0	0	1	2
PL.21349	PL.21509	B	#2 ACSR	7.44Y	123.9	0.00	1.06	0.40	0	3	1	95	0.00	0.0	1.769	0.160	3	1	1	1
PL.21546	PL.21512	B	#4 ACSR	7.44Y	124.0	0.00	0.95	1.73	1	12	4	95	0.00	0.0	1.364	0.026	3	1	1	2
PL.21547	PL.21546	B	#4 ACSR	7.44Y	124.0	0.00	0.95	1.32	1	9	3	95	0.00	0.0	1.412	0.048	9	3	1	1
PL.21709	PL.21344	C	6 A (CWC)	7.45Y	124.2	0.00	0.83	21.89	16	156	47	96	0.00	0.0	1.152	0.003	0	0	0	33
PD.3108	PL.21709	C	35L	7.45Y	124.2	0.00	0.83	21.89	63	156	47	96	0.00	0.0	1.152	0.003	0	0	0	33
PL.21710	PD.3108	C	6 A (CWC)	7.44Y	124.0	0.16	0.99	21.89	16	156	47	96	0.18	0.1	1.319	0.166	12	4	1	33
PL.21362	PL.21710	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	1.82	1	13	4	96	0.00	0.0	1.357	0.038	13	4	1	1
PL.21513	PL.21710	C	6 A (CWC)	7.44Y	124.0	0.04	1.03	18.39	13	131	39	96	0.04	0.0	1.364	0.046	0	0	0	31
PL.21364	PL.21513	C	#1/0 ACSR	7.44Y	124.0	0.00	1.03	0.00	0	0	0	100	0.00	0.0	1.409	0.044	0	0	0	0
PL.21630	PL.21364	C	1/0 AL URD	7.44Y	124.0	0.00	1.03	0.00	0	0	0	100	0.00	0.0	1.413	0.005	0	0	0	0
PD.3071	PL.21630	C	15T	7.44Y	124.0	0.00	1.03	0.00	0	0	0	100	0.00	0.0	1.413	0.005	0	0	0	0
PL.21631	PD.3071	C	1/0 AL URD	7.44Y	124.0	0.00	1.03	0.00	0	0	0	100	0.00	0.0	1.510	0.097	0	0	0	0
PL.21363	PL.21513	C	6 A (CWC)	7.43Y	123.9	0.08	1.11	16.70	12	119	36	96	0.07	0.1	1.462	0.098	0	0	0	30
PL.21366	PL.21363	C	#2 ACSR	7.43Y	123.9	0.00	1.11	0.79	0	6	2	95	0.00	0.0	1.500	0.037	6	2	1	1
PL.21449	PL.21363	C	6 A (CWC)	7.43Y	123.8	0.05	1.16	15.91	11	113	34	96	0.04	0.0	1.534	0.072	0	0	0	29
PL.21517	PL.21449	C	6 A (CWC)	7.43Y	123.8	0.05	1.20	15.26	11	109	33	96	0.04	0.0	1.601	0.067	9	3	1	28
PL.21368	PL.21517	C	#2 ACSR	7.43Y	123.8	0.00	1.21	1.25	1	9	3	95	0.00	0.0	1.662	0.060	9	3	1	1
PL.21518	PL.21517	C	6 A (CWC)	7.43Y	123.8	0.01	1.22	12.79	9	91	27	96	0.01	0.0	1.626	0.024	0	0	0	26
PL.21520	PL.21518	C	6 A (CWC)	7.42Y	123.7	0.06	1.28	12.79	9	91	27	96	0.04	0.0	1.731	0.105	2	1	1	26
PL.21540	PL.21520	C	6 A (CWC)	7.42Y	123.7	0.04	1.32	11.81	8	84	25	96	0.02	0.0	1.802	0.072	7	2	1	23
PL.21541	PL.21540	C	6 A (CWC)	7.42Y	123.6	0.04	1.36	10.83	8	77	23	96	0.03	0.0	1.890	0.088	0	0	0	22
PL.21450	PL.21541	C	6 A (CWC)	7.42Y	123.6	0.04	1.40	10.83	8	77	23	96	0.02	0.0	1.974	0.084	0	0	0	22
PL.21544	PL.21450	C	6 A (CWC)	7.42Y	123.6	0.00	1.40	1.77	1	13	4	96	0.00	0.0	2.009	0.035	6	2	1	4

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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.21545	PL.21544	C	6 A (CWC)	7.42Y	123.6	0.00	1.41	0.90	1	6	2	95	0.00	0.0	2.072	0.063	0	0	0	3
PL.21452	PL.21545	C	6 A (CWC)	7.42Y	123.6	0.00	1.41	0.90	1	6	2	95	0.00	0.0	2.138	0.066	0	0	1	3
PL.21372	PL.21452	C	#2 ACSR	7.42Y	123.6	0.00	1.41	0.90	1	6	2	95	0.00	0.0	2.192	0.054	6	2	2	2
PL.21371	PL.21545	C	#1/0 ACSR	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	2.087	0.016	0	0	0	0
PL.21451	PL.21450	C	6 A (CWC)	7.41Y	123.6	0.02	1.43	9.06	6	64	19	96	0.01	0.0	2.035	0.061	11	3	1	18
PL.21373	PL.21451	C	6 A (CWC)	7.41Y	123.6	0.01	1.44	7.52	5	53	16	96	0.00	0.0	2.069	0.034	0	0	0	17
PL.21453	PL.21373	C	6 A (CWC)	7.41Y	123.5	0.05	1.49	7.33	5	52	16	96	0.02	0.0	2.225	0.156	0	0	0	16
PL.21376	PL.21453	C	#4 ACSR	7.41Y	123.5	0.02	1.51	4.48	3	32	10	95	0.00	0.0	2.306	0.081	0	0	0	12
PL.21378	PL.21376	C	#4 ACSR	7.41Y	123.5	0.00	1.51	0.21	0	1	0	100	0.00	0.0	2.354	0.048	0	0	0	2
PL.21703	PL.21378	C	1/0 AL URD	7.41Y	123.5	0.00	1.51	0.21	0	1	0	100	0.00	0.0	2.359	0.005	0	0	0	2
PD.3105	PL.21703	C	15T	7.41Y	123.5	0.00	1.51	0.21	0	1	0	100	0.00	0.0	2.359	0.005	0	0	0	2
PL.21704	PD.3105	C	1/0 AL URD	7.41Y	123.5	0.00	1.51	0.21	0	1	0	100	0.00	0.0	2.418	0.059	1	0	2	2
PL.21522	PL.21376	C	#4 ACSR	7.41Y	123.5	0.02	1.52	4.27	3	30	9	96	0.00	0.0	2.413	0.107	7	2	1	10
PL.21379	PL.21522	C	#4 ACSR	7.41Y	123.5	0.00	1.53	1.18	1	8	3	94	0.00	0.0	2.486	0.073	8	3	2	2
PL.21567	PL.21522	C	#4 ACSR	7.41Y	123.5	0.00	1.53	2.03	2	14	4	96	0.00	0.0	2.464	0.051	7	2	1	7
PL.21568	PL.21567	C	#4 ACSR	7.41Y	123.5	0.00	1.53	1.09	1	8	2	97	0.00	0.0	2.544	0.080	0	0	0	6
PL.21571	PL.21568	C	#4 ACSR	7.41Y	123.5	0.00	1.53	1.09	1	8	2	97	0.00	0.0	2.579	0.035	0	0	0	5
PL.21572	PL.21571	C	#4 ACSR	7.41Y	123.5	0.00	1.54	1.09	1	8	2	97	0.00	0.0	2.642	0.063	0	0	0	5
PL.21381	PL.21572	C	#4 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	2.720	0.077	0	0	0	2
PL.21454	PL.21381	C	#4 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	2.837	0.117	0	0	0	0
PL.21484	PL.21454	C	#4 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	2.963	0.126	0	0	0	0
PL.21485	PL.21484	C	#4 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	3.066	0.103	0	0	0	0
PL.21486	PL.21485	C	#4 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	3.169	0.104	0	0	0	0
PL.21382	PL.21381	C	#2 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	2.756	0.036	0	0	2	2
PL.21569	PL.21572	C	#4 ACSR	7.41Y	123.5	0.00	1.54	1.09	1	8	2	97	0.00	0.0	2.719	0.076	3	1	1	3
PL.21570	PL.21569	C	#4 ACSR	7.41Y	123.5	0.00	1.54	0.67	1	5	1	98	0.00	0.0	2.802	0.083	5	1	2	2
PL.21380	PL.21568	C	#2 ACSR	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	2.623	0.079	0	0	1	1
PL.21375	PL.21453	C	6 A (CWC)	7.41Y	123.5	0.01	1.50	2.85	2	20	6	96	0.00	0.0	2.305	0.080	0	0	0	4
PL.21542	PL.21375	C	#4 ACSR	7.41Y	123.5	0.00	1.50	1.13	1	8	2	97	0.00	0.0	2.427	0.122	6	2	1	2
PL.21543	PL.21542	C	#4 ACSR	7.41Y	123.5	0.00	1.50	0.23	0	2	0	100	0.00	0.0	2.495	0.068	2	0	1	1
PL.21377	PL.21375	C	6 A (CWC)	7.41Y	123.5	0.00	1.50	1.71	1	12	4	95	0.00	0.0	2.341	0.036	12	4	2	2

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Balanced Voltage Drop Report
Source: Hargett

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.21374	PL.21373	C	#2 ACSR	7.41Y	123.6	0.00	1.44	0.19	0	1	0	100	0.00	0.0	2.120	0.051	1	0	1	1
PL.21369	PL.21520	C	6 A (CWC)	7.42Y	123.7	0.00	1.28	0.68	0	5	1	98	0.00	0.0	1.821	0.090	5	1	2	2
PL.21367	PL.21449	C	#4 ACSR	7.43Y	123.8	0.00	1.16	0.65	1	5	1	98	0.00	0.0	1.635	0.101	5	1	1	1
PL.21365	PL.21513	C	#2 ACSR	7.44Y	124.0	0.00	1.03	1.70	1	12	4	95	0.00	0.0	1.514	0.150	12	4	1	1
PL.21345	PL.21344	A C	#1/0 ACSR	7.45Y	124.1	0.03	0.86	45.41	20	646	200	96	0.13	0.0	1.182	0.033	0	0	0	134
PL.21455	PL.21345	A C	#1/0 ACSR	7.45Y	124.1	0.00	0.86	0.00	0	0	0	100	0.00	0.0	1.190	0.007	0	0	0	0
PL.21346	PL.21345	A C	#1/0 ACSR	7.45Y	124.1	0.03	0.89	45.41	20	646	200	96	0.11	0.0	1.209	0.027	0	0	0	134
PL.21556	PL.21346	A C	#1/0 ACSR	7.45Y	124.1	0.00	0.89	1.03	0	15	4	97	0.00	0.0	1.262	0.053	1	0	1	3
PL.21557	PL.21556	A C	#1/0 ACSR	7.45Y	124.1	0.00	0.89	0.99	0	14	4	96	0.00	0.0	1.274	0.012	0	0	0	2
PL.21628	PL.21557	A	#2 ACSR	7.45Y	124.1	0.00	0.89	1.98	1	14	4	96	0.00	0.0	1.279	0.005	0	0	0	2
PD.3070	PL.21628	A	65T	7.45Y	124.1	0.00	0.89	1.98	0	14	4	96	0.00	0.0	1.279	0.005	0	0	0	2
PL.21629	PD.3070	A	#2 ACSR	7.45Y	124.1	0.00	0.89	1.98	1	14	4	96	0.00	0.0	1.392	0.114	14	4	2	2
PL.21347	PL.21346	A C	#1/0 ACSR	7.44Y	124.0	0.08	0.96	44.38	19	632	195	96	0.32	0.1	1.293	0.083	0	0	0	131
PL.21456	PL.21347	A C	#1/0 ACSR	7.44Y	124.0	0.04	1.00	43.90	19	624	193	96	0.15	0.0	1.331	0.039	0	0	0	130
PL.21632	PL.21456	A	#1/0 ACSR	7.44Y	124.0	0.00	1.00	1.14	0	8	2	97	0.00	0.0	1.336	0.005	0	0	0	1
PD.3072	PL.21632	A	65T	7.44Y	124.0	0.00	1.00	1.14	0	8	2	97	0.00	0.0	1.336	0.005	0	0	0	1
PL.21633	PD.3072	A	#1/0 ACSR	7.44Y	124.0	0.00	1.00	1.14	0	8	2	97	0.00	0.0	1.343	0.007	8	2	1	1
PL.21558	PL.21633	A	#1/0 ACSR	7.44Y	124.0	0.00	1.00	0.00	0	0	0	100	0.00	0.0	1.376	0.033	0	0	0	0
PL.21717	PL.21456	A C	#1/0 ACSR	7.44Y	124.0	0.04	1.04	43.33	19	616	190	96	0.16	0.0	1.375	0.044	0	0	0	129
PD.3112	PL.21717	A C	70L	7.44Y	124.0	0.00	1.04	43.33	62	616	190	96	0.00	0.0	1.375	0.044	0	0	0	129
PL.21718	PD.3112	A C	#1/0 ACSR	7.43Y	123.8	0.17	1.21	43.33	19	616	190	96	0.69	0.1	1.562	0.187	0	0	0	129
PL.21681	PL.21718	C	#1/0 ACSR	7.43Y	123.8	0.00	1.21	2.53	1	18	5	96	0.00	0.0	1.566	0.005	0	0	0	3
PD.3096	PL.21681	C	20T	7.43Y	123.8	0.00	1.21	2.53	0	18	5	96	0.00	0.0	1.566	0.005	0	0	0	3
PL.21682	PD.3096	C	#1/0 ACSR	7.43Y	123.8	0.00	1.21	2.53	1	18	5	96	0.00	0.0	1.578	0.012	0	0	0	3
PL.21383	PL.21682	C	6 A (CWC)	7.43Y	123.8	0.00	1.21	2.53	2	18	5	96	0.00	0.0	1.643	0.065	18	5	3	3
PL.21636	PL.21718	A	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.54	0	4	1	97	0.00	0.0	1.566	0.005	0	0	0	2
PD.3074	PL.21636	A	20T	7.43Y	123.8	0.00	1.21	0.54	0	4	1	97	0.00	0.0	1.566	0.005	0	0	0	2
PL.21637	PD.3074	A	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.54	0	4	1	97	0.00	0.0	1.587	0.021	4	1	2	2
PL.21559	PL.21718	A C	#1/0 ACSR	7.42Y	123.7	0.07	1.27	41.79	18	593	183	96	0.26	0.0	1.636	0.074	0	0	2	124
PL.21560	PL.21559	A C	#1/0 ACSR	7.42Y	123.7	0.05	1.32	41.79	18	593	182	96	0.19	0.0	1.690	0.054	0	0	0	122
PL.21384	PL.21560	A C	#1/0 ACSR	7.42Y	123.6	0.05	1.37	41.79	18	593	182	96	0.18	0.0	1.742	0.052	0	0	0	122

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: Hargett

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.21642	PL.21384	C	#1/0 ACSR	7.42Y	123.6	0.00	1.37	0.94	0	7	2	96	0.00	0.0	1.747	0.005	0	0	0	1
PD.3077	PL.21642	C	20T	7.42Y	123.6	0.00	1.37	0.94	0	7	2	96	0.00	0.0	1.747	0.005	0	0	0	1
PL.21643	PD.3077	C	#1/0 ACSR	7.42Y	123.6	0.00	1.37	0.94	0	7	2	96	0.00	0.0	1.774	0.027	7	2	1	1
PL.21457	PL.21384	A C	#1/0 ACSR	7.41Y	123.5	0.10	1.46	41.32	18	586	180	96	0.37	0.1	1.852	0.109	0	0	0	120
PL.21458	PL.21457	A C	#1/0 ACSR	7.41Y	123.4	0.10	1.56	41.29	18	585	179	96	0.37	0.1	1.962	0.110	0	0	0	119
PL.21638	PL.21458	A	#1/0 ACSR	7.41Y	123.4	0.00	1.56	0.84	0	6	2	95	0.00	0.0	1.966	0.005	0	0	0	1
PD.3075	PL.21638	A	20T	7.41Y	123.4	0.00	1.56	0.84	0	6	2	95	0.00	0.0	1.966	0.005	0	0	0	1
PL.21639	PD.3075	A	#1/0 ACSR	7.41Y	123.4	0.00	1.56	0.84	0	6	2	95	0.00	0.0	1.987	0.021	6	2	1	1
PL.21460	PL.21458	A C	#1/0 ACSR	7.40Y	123.4	0.07	1.63	40.87	18	579	177	96	0.27	0.0	2.043	0.081	0	0	0	118
PL.21644	PL.21460	C	#4 ACSR	7.40Y	123.4	0.00	1.63	1.45	1	10	3	96	0.00	0.0	2.048	0.005	0	0	0	5
PD.3078	PL.21644	C	20T	7.40Y	123.4	0.00	1.63	1.45	0	10	3	96	0.00	0.0	2.048	0.005	0	0	0	5
PL.21645	PD.3078	C	#4 ACSR	7.40Y	123.4	0.00	1.63	1.45	1	10	3	96	0.00	0.0	2.101	0.053	1	0	1	5
PL.21387	PL.21645	C	#4 ACSR	7.40Y	123.4	0.00	1.63	1.24	1	9	3	95	0.00	0.0	2.106	0.005	0	0	0	4
PD.3098	PL.21387	C	20T	7.40Y	123.4	0.00	1.63	1.24	0	9	3	95	0.00	0.0	2.106	0.005	0	0	0	4
PL.21462	PD.3098	C	#4 ACSR	7.40Y	123.4	0.00	1.64	1.24	1	9	3	95	0.00	0.0	2.176	0.070	0	0	0	4
PL.21390	PL.21462	C	#4 ACSR	7.40Y	123.4	0.01	1.64	1.24	1	9	3	95	0.00	0.0	2.321	0.146	4	1	1	4
PL.21508	PL.21390	C	#4 ACSR	7.40Y	123.4	0.00	1.65	0.68	1	5	1	98	0.00	0.0	2.409	0.088	3	1	1	3
PL.21389	PL.21508	C	#2 ACSR	7.40Y	123.4	0.00	1.65	0.00	0	0	0	100	0.00	0.0	2.472	0.063	0	0	0	0
PL.21507	PL.21508	C	#4 ACSR	7.40Y	123.4	0.00	1.65	0.26	0	2	1	89	0.00	0.0	2.470	0.061	2	1	2	2
PL.21388	PD.3098	C	#4 ACSR	7.40Y	123.4	0.00	1.63	0.00	0	0	0	100	0.00	0.0	2.175	0.069	0	0	0	0
PL.21391	PL.21388	C	#4 ACSR	7.40Y	123.4	0.00	1.63	0.00	0	0	0	100	0.00	0.0	2.233	0.058	0	0	0	0
PL.21461	PL.21460	A C	#1/0 ACSR	7.40Y	123.3	0.10	1.73	40.15	17	568	174	96	0.37	0.1	2.160	0.117	0	0	0	113
PL.21685	PL.21461	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	3.27	1	23	7	96	0.00	0.0	2.165	0.005	0	0	0	8
PD.3099	PL.21685	C	20T	7.40Y	123.3	0.00	1.73	3.27	0	23	7	96	0.00	0.0	2.165	0.005	0	0	0	8
PL.21686	PD.3099	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	3.27	1	23	7	96	0.00	0.0	2.181	0.016	4	1	1	8
PL.21573	PL.21686	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	2.66	1	19	6	95	0.00	0.0	2.239	0.059	1	0	2	7
PL.21574	PL.21573	C	#1/0 ACSR	7.40Y	123.3	0.01	1.74	2.58	1	18	5	96	0.00	0.0	2.331	0.091	0	0	0	5
PL.21393	PL.21574	C	#1/0 ACSR	7.40Y	123.3	0.00	1.74	0.05	0	0	0	100	0.00	0.0	2.388	0.057	0	0	1	1
PL.21575	PL.21574	C	#1/0 ACSR	7.40Y	123.3	0.01	1.74	2.53	1	18	5	96	0.00	0.0	2.436	0.105	4	1	1	4
PL.21576	PL.21575	C	#1/0 ACSR	7.40Y	123.3	0.00	1.75	1.92	1	14	4	96	0.00	0.0	2.538	0.102	11	3	1	3
PL.21395	PL.21576	C	#1/0 ACSR	7.40Y	123.3	0.00	1.75	0.01	0	0	0	100	0.00	0.0	2.595	0.057	0	0	1	1

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Balanced Voltage Drop Report
Source: Hargett

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.21394	PL.21576	C	#1/0 ACSR	7.40Y	123.3	0.00	1.75	0.38	0	3	1	95	0.00	0.0	2.628	0.090	3	1	1	1
PL.21463	PL.21461	A C	#1/0 ACSR	7.39Y	123.2	0.03	1.76	38.14	17	540	165	96	0.12	0.0	2.202	0.042	0	0	0	103
PL.21392	PL.21463	A C	#1/0 ACSR	7.39Y	123.2	0.03	1.80	38.14	17	539	165	96	0.12	0.0	2.244	0.042	0	0	0	103
PL.21648	PL.21392	C	#1/0 ACSR	7.39Y	123.2	0.00	1.80	0.47	0	3	1	95	0.00	0.0	2.248	0.005	0	0	0	1
PD.3080	PL.21648	C	20T	7.39Y	123.2	0.00	1.80	0.47	0	3	1	95	0.00	0.0	2.248	0.005	0	0	0	1
PL.21649	PD.3080	C	#1/0 ACSR	7.39Y	123.2	0.00	1.80	0.47	0	3	1	95	0.00	0.0	2.287	0.039	3	1	1	1
PL.21693	PL.21392	A C	#1/0 ACSR	7.39Y	123.1	0.06	1.85	37.85	16	535	163	96	0.21	0.0	2.318	0.074	0	0	0	101
PL.21694	PL.21693	A C	#1/0 ACSR	7.39Y	123.1	0.00	1.86	37.85	16	535	163	96	0.01	0.0	2.322	0.004	10	3	1	101
PL.21689	PL.21694	C	#4 ACSR	7.39Y	123.1	0.00	1.86	4.90	4	35	10	96	0.00	0.0	2.326	0.005	0	0	0	9
PD.3101	PL.21689	C	20T	7.39Y	123.1	0.00	1.86	4.90	0	35	10	96	0.00	0.0	2.326	0.005	0	0	0	9
PL.21690	PD.3101	C	#4 ACSR	7.39Y	123.1	0.01	1.87	4.90	4	35	10	96	0.00	0.0	2.367	0.041	3	1	1	9
PL.21566	PL.21690	C	#4 ACSR	7.39Y	123.1	0.01	1.88	4.55	3	32	10	95	0.00	0.0	2.422	0.055	0	0	0	8
PL.21396	PL.21566	C	#1/0 ACSR	7.39Y	123.1	0.00	1.88	1.31	1	9	3	95	0.00	0.0	2.519	0.097	9	3	1	1
PL.21464	PL.21566	C	#4 ACSR	7.39Y	123.1	0.01	1.89	3.23	2	23	7	96	0.00	0.0	2.480	0.058	8	2	1	7
PL.21397	PL.21464	C	#2 ACSR	7.39Y	123.1	0.00	1.89	2.14	1	15	5	95	0.00	0.0	2.534	0.054	0	0	0	6
PL.21398	PL.21397	C	#1/0 ACSR	7.39Y	123.1	0.01	1.89	1.88	1	13	4	96	0.00	0.0	2.649	0.114	0	0	0	5
PL.21564	PL.21398	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	1.88	1	13	4	96	0.00	0.0	2.735	0.086	8	2	3	5
PL.21565	PL.21564	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.71	0	5	2	93	0.00	0.0	2.778	0.043	1	0	1	2
PL.21561	PL.21565	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.56	0	4	1	97	0.00	0.0	2.839	0.061	4	1	1	1
PL.21465	PL.21397	C	#2 ACSR	7.39Y	123.1	0.00	1.89	0.26	0	2	1	89	0.00	0.0	2.555	0.020	2	1	1	1
PL.21506	PL.21694	A C	#1/0 ACSR	7.38Y	123.0	0.12	1.98	34.62	15	489	149	96	0.40	0.1	2.491	0.169	0	0	0	90
PL.21695	PL.21506	C	#4 ACSR	7.38Y	123.0	0.00	1.98	0.38	0	3	1	95	0.00	0.0	2.495	0.005	0	0	0	1
PD.3103	PL.21695	C	20T	7.38Y	123.0	0.00	1.98	0.38	0	3	1	95	0.00	0.0	2.495	0.005	0	0	0	1
PL.21700	PD.3103	C	#4 ACSR	7.38Y	123.0	0.00	1.98	0.38	0	3	1	95	0.00	0.0	2.522	0.026	3	1	1	1
PL.21466	PL.21506	A C	#1/0 ACSR	7.38Y	122.9	0.09	2.07	34.43	15	486	148	96	0.29	0.1	2.615	0.124	0	0	0	89
PL.21656	PL.21466	C	#4 ACSR	7.38Y	122.9	0.00	2.07	0.39	0	3	1	95	0.00	0.0	2.620	0.005	0	0	0	1
PD.3083	PL.21656	C	20T	7.38Y	122.9	0.00	2.07	0.39	0	3	1	95	0.00	0.0	2.620	0.005	0	0	0	1
PL.21657	PD.3083	C	#4 ACSR	7.38Y	122.9	0.00	2.07	0.39	0	3	1	95	0.00	0.0	2.655	0.035	3	1	1	1
PL.21467	PL.21466	A C	#1/0 ACSR	7.37Y	122.9	0.08	2.15	33.24	14	469	143	96	0.25	0.1	2.728	0.113	0	0	0	85
PL.21579	PL.21467	A C	#1/0 ACSR	7.37Y	122.8	0.07	2.22	33.24	14	469	142	96	0.22	0.0	2.831	0.103	0	0	1	85
PL.21580	PL.21579	A C	#1/0 ACSR	7.36Y	122.7	0.07	2.29	33.21	14	468	142	96	0.20	0.0	2.926	0.094	8	2	1	84

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: Hargett

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.21578	PL.21580	A C	#1/0 ACSR	7.36Y	122.7	0.05	2.34	32.63	14	460	139	96	0.15	0.0	2.999	0.073	3	1	2	83
PL.21505	PL.21578	A C	#1/0 ACSR	7.36Y	122.6	0.03	2.37	26.83	12	378	114	96	0.09	0.0	3.061	0.062	0	0	0	65
PL.21652	PL.21505	A C	#1/0 ACSR	7.36Y	122.6	0.04	2.41	26.83	12	378	114	96	0.10	0.0	3.134	0.074	0	0	0	64
PL.21653	PL.21652	A C	#1/0 ACSR	7.36Y	122.6	0.00	2.42	26.83	12	378	114	96	0.01	0.0	3.139	0.004	8	2	1	64
PL.21504	PL.21653	A C	#1/0 ACSR	7.35Y	122.5	0.07	2.48	25.11	11	354	107	96	0.16	0.0	3.268	0.129	6	2	1	61
PL.21587	PL.21504	A C	#1/0 ACSR	7.35Y	122.5	0.02	2.51	18.43	8	259	79	96	0.04	0.0	3.330	0.062	8	2	1	45
PL.21588	PL.21587	A C	#1/0 ACSR	7.35Y	122.5	0.04	2.54	17.86	8	251	76	96	0.06	0.0	3.425	0.095	0	0	0	44
PL.21664	PL.21588	A	#2 ACSR	7.35Y	122.5	0.00	2.54	1.20	1	8	3	94	0.00	0.0	3.430	0.005	0	0	0	2
PD.3087	PL.21664	A	20T	7.35Y	122.5	0.00	2.54	1.20	0	8	3	94	0.00	0.0	3.430	0.005	0	0	0	2
PL.21665	PD.3087	A	#2 ACSR	7.35Y	122.5	0.00	2.55	1.20	1	8	3	94	0.00	0.0	3.518	0.088	8	3	2	2
PL.21473	PL.21588	A C	#1/0 ACSR	7.35Y	122.4	0.03	2.57	17.26	8	243	73	96	0.05	0.0	3.510	0.085	0	0	0	42
PL.21474	PL.21473	A C	#1/0 ACSR	7.34Y	122.4	0.03	2.60	17.10	7	240	73	96	0.04	0.0	3.586	0.076	0	0	0	41
PL.21713	PL.21474	C	#2 ACSR	7.34Y	122.4	0.00	2.60	1.82	1	13	4	96	0.00	0.0	3.622	0.036	0	0	0	3
PD.3110	PL.21713	C	35L	7.34Y	122.4	0.00	2.60	1.82	5	13	4	96	0.00	0.0	3.622	0.036	0	0	0	3
PL.21714	PD.3110	C	#2 ACSR	7.34Y	122.4	0.00	2.60	1.82	1	13	4	96	0.00	0.0	3.657	0.035	13	4	2	3
PL.21596	PL.21714	C	#2 ACSR	7.34Y	122.4	0.00	2.60	0.01	0	0	0	100	0.00	0.0	3.825	0.168	0	0	0	1
PL.21412	PL.21596	C	#2 ACSR	7.34Y	122.4	0.00	2.60	0.01	0	0	0	100	0.00	0.0	3.938	0.114	0	0	1	1
PL.21475	PL.21596	C	#2 ACSR	7.34Y	122.4	0.00	2.60	0.00	0	0	0	100	0.00	0.0	3.905	0.080	0	0	0	0
PL.21413	PL.21475	C	6 A (CWC)	7.34Y	122.4	0.00	2.60	0.00	0	0	0	100	0.00	0.0	4.030	0.125	0	0	0	0
PL.21488	PL.21413	C	6 A (CWC)	7.34Y	122.4	0.00	2.60	0.00	0	0	0	100	0.00	0.0	4.218	0.188	0	0	0	0
PL.21489	PL.21488	C	6 A (CWC)	7.34Y	122.4	0.00	2.60	0.00	0	0	0	100	0.00	0.0	4.281	0.063	0	0	0	0
PL.21414	PL.21489	C	6 A (CWC)	7.34Y	122.4	0.00	2.60	0.00	0	0	0	100	0.00	0.0	4.348	0.067	0	0	0	0
PL.21415	PL.21489	C	6 A (CWC)	7.34Y	122.4	0.00	2.60	0.00	0	0	0	100	0.00	0.0	4.337	0.056	0	0	0	0
PL.21409	PL.21474	A	#1/0 ACSR	7.34Y	122.3	0.06	2.66	32.38	14	228	69	96	0.08	0.0	3.659	0.073	0	0	0	38
PL.21410	PL.21409	A	#1/0 ACSR	7.34Y	122.3	0.06	2.72	31.97	14	225	68	96	0.09	0.0	3.738	0.079	0	0	0	37
PL.21715	PL.21410	A	#1/0 ACSR	7.34Y	122.3	0.00	2.72	29.39	13	206	62	96	0.00	0.0	3.741	0.003	0	0	0	36
PD.3111	PL.21715	A	50L	7.34Y	122.3	0.00	2.72	29.39	59	206	62	96	0.00	0.0	3.741	0.003	0	0	0	36
PL.21716	PD.3111	A	#1/0 ACSR	7.34Y	122.3	0.02	2.74	29.39	13	206	62	96	0.03	0.0	3.772	0.031	2	0	2	36
PL.21417	PL.21716	A	#2 ACSR	7.34Y	122.3	0.00	2.74	0.43	0	3	1	95	0.00	0.0	3.905	0.133	0	0	0	2
PL.21650	PL.21417	A	1/0 AL URD	7.34Y	122.3	0.00	2.74	0.43	0	3	1	95	0.00	0.0	3.910	0.005	0	0	0	2
PD.3081	PL.21650	A	15T	7.34Y	122.3	0.00	2.74	0.43	0	3	1	95	0.00	0.0	3.910	0.005	0	0	0	2

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Balanced Voltage Drop Report
Source: Hargett

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.21651	PD.3081	A	1/0 AL URD	7.34Y	122.3	0.00	2.74	0.43	0	3	1	95	0.00	0.0	3.965	0.055	3	1	2	2
PL.21416	PL.21716	A	6 A (CWC)	7.33Y	122.1	0.15	2.89	28.74	21	202	61	96	0.23	0.1	3.887	0.115	0	0	0	32
PL.21490	PL.21416	A	6 A (CWC)	7.32Y	122.0	0.14	3.04	28.74	21	202	61	96	0.22	0.1	3.996	0.109	0	0	0	32
PL.21503	PL.21490	A	6 A (CWC)	7.31Y	121.9	0.09	3.13	25.51	18	179	54	96	0.12	0.1	4.072	0.075	0	0	0	30
PL.21599	PL.21503	A	6 A (CWC)	7.31Y	121.8	0.05	3.18	19.93	14	140	42	96	0.05	0.0	4.129	0.058	9	3	1	24
PL.21600	PL.21599	A	6 A (CWC)	7.30Y	121.7	0.11	3.29	18.65	13	130	39	96	0.11	0.1	4.262	0.133	0	0	0	23
PL.21501	PL.21600	A	6 A (CWC)	7.30Y	121.7	0.01	3.30	3.05	2	21	6	96	0.00	0.0	4.339	0.077	1	0	1	5
PL.21423	PL.21501	A	6 A (CWC)	7.30Y	121.7	0.00	3.31	1.84	1	13	4	96	0.00	0.0	4.426	0.087	11	3	1	3
PL.21425	PL.21423	A	#1/0 ACSR	7.30Y	121.7	0.00	3.31	0.33	0	2	1	89	0.00	0.0	4.480	0.053	2	1	2	2
PL.21502	PL.21501	A	6 A (CWC)	7.30Y	121.7	0.01	3.31	1.12	1	8	2	97	0.00	0.0	4.517	0.177	0	0	0	1
PL.21434	PL.21502	A	#4 ACSR	7.30Y	121.7	0.00	3.31	1.12	1	8	2	97	0.00	0.0	4.523	0.007	8	2	1	1
PL.21424	PL.21600	A	6 A (CWC)	7.29Y	121.6	0.15	3.44	15.59	11	109	33	96	0.12	0.1	4.470	0.208	0	0	0	18
PL.21427	PL.21424	A	6 A (CWC)	7.29Y	121.6	0.00	3.44	0.00	0	0	0	100	0.00	0.0	4.562	0.092	0	0	0	0
PL.21426	PL.21424	A	6 A (CWC)	7.29Y	121.5	0.04	3.48	15.59	11	109	33	96	0.04	0.0	4.530	0.060	0	0	0	18
PL.21499	PL.21426	A	6 A (CWC)	7.29Y	121.5	0.03	3.51	6.87	5	48	14	96	0.01	0.0	4.629	0.098	1	0	1	8
PL.21430	PL.21499	A	#4 ACSR	7.29Y	121.5	0.00	3.52	1.06	1	7	2	96	0.00	0.0	4.712	0.083	7	2	2	2
PL.21500	PL.21499	A	6 A (CWC)	7.29Y	121.5	0.02	3.54	5.71	4	40	12	96	0.01	0.0	4.717	0.088	0	0	0	5
PL.21479	PL.21500	A	6 A (CWC)	7.29Y	121.5	0.00	3.54	2.21	2	15	5	95	0.00	0.0	4.802	0.084	15	5	1	1
PL.21431	PL.21500	A	#2 ACSR	7.29Y	121.4	0.01	3.55	3.50	2	24	7	96	0.00	0.0	4.860	0.142	9	3	1	4
PL.21672	PL.21431	A	1/0 AL URD	7.29Y	121.4	0.00	3.55	2.23	1	16	5	95	0.00	0.0	4.864	0.005	0	0	0	3
PD.3091	PL.21672	A	15T	7.29Y	121.4	0.00	3.55	2.23	0	16	5	95	0.00	0.0	4.864	0.005	0	0	0	3
PL.21673	PD.3091	A	1/0 AL URD	7.29Y	121.4	0.00	3.56	2.23	1	16	5	95	0.00	0.0	4.954	0.090	10	3	2	3
PL.21616	PL.21673	A	1/0 AL URD	7.29Y	121.4	0.00	3.56	0.84	0	6	2	95	0.00	0.0	5.106	0.151	6	2	1	1
PL.21429	PL.21426	A	#2 ACSR	7.29Y	121.5	0.00	3.48	1.05	1	7	2	96	0.00	0.0	4.585	0.055	7	2	1	2
PL.21670	PL.21429	A	1/0 AL URD	7.29Y	121.5	0.00	3.48	0.05	0	0	0	100	0.00	0.0	4.590	0.005	0	0	0	1
PD.3090	PL.21670	A	15T	7.29Y	121.5	0.00	3.48	0.05	0	0	0	100	0.00	0.0	4.590	0.005	0	0	0	1
PL.21671	PD.3090	A	1/0 AL URD	7.29Y	121.5	0.00	3.48	0.05	0	0	0	100	0.00	0.0	4.631	0.041	0	0	1	1
PL.21428	PL.21426	A	#4 ACSR	7.29Y	121.5	0.03	3.51	7.68	6	54	16	96	0.01	0.0	4.624	0.093	7	2	1	8
PL.21601	PL.21428	A	#4 ACSR	7.29Y	121.5	0.02	3.54	6.73	5	47	14	96	0.01	0.0	4.716	0.092	13	4	2	7
PL.21602	PL.21601	A	#4 ACSR	7.29Y	121.4	0.02	3.55	4.83	4	34	10	96	0.00	0.0	4.793	0.078	0	0	0	5
PL.21478	PL.21602	A	#4 ACSR	7.29Y	121.4	0.00	3.56	3.77	3	26	8	96	0.00	0.0	4.819	0.026	7	2	2	4

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Balanced Voltage Drop Report
Source: Hargett

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.21433	PL.21478	A	#4 ACSR	7.29Y	121.4	0.00	3.56	2.83	2	20	6	96	0.00	0.0	4.847	0.028	0	0	0	2
PL.21435	PL.21433	A	#4 ACSR	7.29Y	121.4	0.01	3.57	1.55	1	11	3	96	0.00	0.0	4.955	0.107	0	0	0	1
PL.21494	PL.21435	A	#4 ACSR	7.29Y	121.4	0.01	3.58	1.55	1	11	3	96	0.00	0.0	5.091	0.136	0	0	0	1
PL.21495	PL.21494	A	#4 ACSR	7.29Y	121.4	0.00	3.58	1.55	1	11	3	96	0.00	0.0	5.192	0.101	11	3	1	1
PL.21438	PL.21433	A	#4 ACSR	7.29Y	121.4	0.00	3.56	1.27	1	9	3	95	0.00	0.0	4.927	0.079	9	3	1	1
PL.21432	PL.21602	A	#4 ACSR	7.29Y	121.4	0.00	3.56	1.06	1	7	2	96	0.00	0.0	4.891	0.097	7	2	1	1
PL.21420	PL.21503	A	6 A (CWC)	7.31Y	121.9	0.02	3.14	5.58	4	39	12	96	0.00	0.0	4.136	0.065	7	2	2	6
PL.21421	PL.21420	A	#2 ACSR	7.31Y	121.8	0.02	3.16	4.63	3	32	10	95	0.00	0.0	4.249	0.112	0	0	0	4
PL.21597	PL.21421	A	#1/0 ACSR	7.31Y	121.8	0.00	3.16	2.69	1	19	6	95	0.00	0.0	4.298	0.049	6	2	1	2
PL.21598	PL.21597	A	#1/0 ACSR	7.31Y	121.8	0.00	3.16	1.81	1	13	4	96	0.00	0.0	4.412	0.114	13	4	1	1
PL.21477	PL.21421	A	#2 ACSR	7.31Y	121.8	0.00	3.16	1.95	1	14	4	96	0.00	0.0	4.302	0.053	5	2	1	2
PL.21422	PL.21477	A	#1/0 ACSR	7.31Y	121.8	0.00	3.16	1.21	1	8	3	94	0.00	0.0	4.322	0.020	8	3	1	1
PL.21418	PL.21490	A	6 A (CWC)	7.32Y	121.9	0.03	3.06	3.23	2	23	7	96	0.00	0.0	4.178	0.182	0	0	0	2
PL.21491	PL.21418	A	6 A (CWC)	7.32Y	121.9	0.01	3.08	3.23	2	23	7	96	0.00	0.0	4.255	0.077	0	0	0	2
PL.21498	PL.21491	A	6 A (CWC)	7.31Y	121.9	0.02	3.09	3.23	2	23	7	96	0.00	0.0	4.369	0.115	0	0	0	2
PL.21492	PL.21498	A	6 A (CWC)	7.31Y	121.9	0.01	3.10	3.23	2	23	7	96	0.00	0.0	4.447	0.077	0	0	0	2
PL.21419	PL.21492	A	#4 ACSR	7.31Y	121.9	0.00	3.11	0.31	0	2	1	89	0.00	0.0	4.573	0.126	0	0	0	1
PL.21493	PL.21419	A	#4 ACSR	7.31Y	121.9	0.00	3.11	0.31	0	2	1	89	0.00	0.0	4.643	0.070	2	1	1	1
PL.21476	PL.21492	A	6 A (CWC)	7.31Y	121.9	0.01	3.11	2.93	2	21	6	96	0.00	0.0	4.545	0.098	21	6	1	1
PL.21411	PL.21410	A	#1/0 ACSR	7.34Y	122.3	0.00	2.72	2.58	1	18	5	96	0.00	0.0	3.772	0.034	18	5	1	1
PL.21666	PL.21409	A	6 A (CWC)	7.34Y	122.3	0.00	2.66	0.40	0	3	1	95	0.00	0.0	3.663	0.005	0	0	0	1
PD.3088	PL.21666	A	20T	7.34Y	122.3	0.00	2.66	0.40	0	3	1	95	0.00	0.0	3.663	0.005	0	0	0	1
PL.21667	PD.3088	A	6 A (CWC)	7.34Y	122.3	0.00	2.66	0.40	0	3	1	95	0.00	0.0	3.747	0.083	3	1	1	1
PL.21668	PL.21473	C	#2 ACSR	7.35Y	122.4	0.00	2.57	0.31	0	2	1	89	0.00	0.0	3.514	0.005	0	0	0	1
PD.3089	PL.21668	C	20T	7.35Y	122.4	0.00	2.57	0.31	0	2	1	89	0.00	0.0	3.514	0.005	0	0	0	1
PL.21669	PD.3089	C	#2 ACSR	7.35Y	122.4	0.00	2.57	0.31	0	2	1	89	0.00	0.0	3.562	0.047	2	1	1	1
PL.21662	PL.21504	A	#4 ACSR	7.35Y	122.5	0.00	2.49	12.55	10	88	27	96	0.00	0.0	3.273	0.005	0	0	0	15
PD.3086	PL.21662	A	20T	7.35Y	122.5	0.00	2.49	12.55	0	88	27	96	0.00	0.0	3.273	0.005	0	0	0	15
PL.21663	PD.3086	A	#4 ACSR	7.35Y	122.5	0.02	2.50	12.55	10	88	27	96	0.01	0.0	3.304	0.031	13	4	1	15
PL.21586	PL.21663	A	#4 ACSR	7.35Y	122.5	0.03	2.53	10.66	8	75	23	96	0.02	0.0	3.365	0.062	7	2	1	14
PL.21585	PL.21586	A	#4 ACSR	7.35Y	122.4	0.03	2.56	9.59	7	67	20	96	0.02	0.0	3.440	0.075	0	0	0	13

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: Hargett

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.21403	PL.21585	A	#4 ACSR	7.35Y	122.4	0.02	2.58	9.22	7	65	19	96	0.01	0.0	3.477	0.037	0	0	0	12
PL.21471	PL.21403	A	#4 ACSR	7.35Y	122.4	0.00	2.58	1.72	1	12	4	95	0.00	0.0	3.551	0.074	12	4	1	1
PL.21404	PL.21403	A	6 A (CWC)	7.34Y	122.4	0.04	2.62	7.50	5	53	16	96	0.02	0.0	3.601	0.124	7	2	1	11
PL.21405	PL.21404	A	#2 ACSR	7.34Y	122.4	0.00	2.62	0.89	1	6	2	95	0.00	0.0	3.643	0.041	6	2	2	2
PL.21583	PL.21404	A	6 A (CWC)	7.34Y	122.4	0.02	2.64	5.65	4	40	12	96	0.01	0.0	3.706	0.105	17	5	2	8
PL.21584	PL.21583	A	6 A (CWC)	7.34Y	122.4	0.01	2.65	3.17	2	22	7	95	0.00	0.0	3.762	0.056	0	0	0	6
PL.21472	PL.21584	A	6 A (CWC)	7.34Y	122.3	0.00	2.65	2.21	2	16	5	95	0.00	0.0	3.802	0.040	0	0	0	5
PL.21407	PL.21472	A	6 A (CWC)	7.34Y	122.3	0.01	2.66	2.21	2	16	5	95	0.00	0.0	3.924	0.122	4	1	1	5
PL.21611	PL.21407	A	6 A (CWC)	7.34Y	122.3	0.01	2.67	1.03	1	7	2	96	0.00	0.0	4.036	0.112	0	0	1	3
PL.21612	PL.21611	A	6 A (CWC)	7.34Y	122.3	0.01	2.68	1.02	1	7	2	96	0.00	0.0	4.199	0.163	0	0	0	2
PL.21609	PL.21612	A	6 A (CWC)	7.34Y	122.3	0.00	2.68	1.02	1	7	2	96	0.00	0.0	4.247	0.048	0	0	1	2
PL.21610	PL.21609	A	6 A (CWC)	7.34Y	122.3	0.00	2.68	0.98	1	7	2	96	0.00	0.0	4.309	0.062	7	2	1	1
PL.21408	PL.21407	A	#4 ACSR	7.34Y	122.3	0.00	2.66	0.58	0	4	1	97	0.00	0.0	3.975	0.051	4	1	1	1
PL.21406	PL.21584	A	#1/0 ACSR	7.34Y	122.4	0.00	2.65	0.96	0	7	2	96	0.00	0.0	3.895	0.134	7	2	1	1
PL.21470	PL.21585	A	#4 ACSR	7.35Y	122.4	0.00	2.56	0.38	0	3	1	95	0.00	0.0	3.526	0.086	3	1	1	1
PL.21654	PL.21653	A	#1/0 ACSR	7.35Y	122.6	0.00	2.42	2.37	1	17	5	96	0.00	0.0	3.144	0.005	0	0	0	2
PD.3082	PL.21654	A	20T	7.35Y	122.6	0.00	2.42	2.37	0	17	5	96	0.00	0.0	3.144	0.005	0	0	0	2
PL.21655	PD.3082	A	#1/0 ACSR	7.35Y	122.6	0.00	2.42	2.37	1	17	5	96	0.00	0.0	3.159	0.015	0	0	1	2
PL.21577	PL.21655	A	#1/0 ACSR	7.35Y	122.6	0.00	2.42	2.37	1	17	5	96	0.00	0.0	3.203	0.044	17	5	1	1
PL.21660	PL.21505	C	#2 ACSR	7.36Y	122.6	0.00	2.37	0.00	0	0	0	100	0.00	0.0	3.065	0.005	0	0	0	1
PD.3085	PL.21660	C	20T	7.36Y	122.6	0.00	2.37	0.00	0	0	0	100	0.00	0.0	3.065	0.005	0	0	0	1
PL.21661	PD.3085	C	#2 ACSR	7.36Y	122.6	0.00	2.37	0.00	0	0	0	100	0.00	0.0	3.111	0.046	0	0	1	1
PL.21658	PL.21578	C	6 A (CWC)	7.36Y	122.7	0.00	2.34	11.13	8	78	24	96	0.00	0.0	3.004	0.005	0	0	0	16
PD.3084	PL.21658	C	20T	7.36Y	122.7	0.00	2.34	11.13	0	78	24	96	0.00	0.0	3.004	0.005	0	0	0	16
PL.21659	PD.3084	C	6 A (CWC)	7.36Y	122.6	0.02	2.36	11.13	8	78	24	96	0.01	0.0	3.042	0.038	1	0	1	16
PL.21582	PL.21659	C	6 A (CWC)	7.36Y	122.6	0.03	2.39	10.97	8	77	23	96	0.02	0.0	3.097	0.055	6	2	1	15
PL.21581	PL.21582	C	6 A (CWC)	7.36Y	122.6	0.03	2.41	10.18	7	72	22	96	0.01	0.0	3.156	0.059	0	0	2	14
PL.21400	PL.21581	C	#2 ACSR	7.35Y	122.6	0.02	2.43	10.18	6	72	22	96	0.01	0.0	3.219	0.063	0	0	0	12
PL.21399	PL.21400	C	#1/0 ACSR	7.35Y	122.6	0.00	2.44	1.28	1	9	3	95	0.00	0.0	3.304	0.085	9	3	1	1
PL.21468	PL.21400	C	#2 ACSR	7.35Y	122.5	0.02	2.45	8.90	5	63	19	96	0.01	0.0	3.281	0.062	0	0	0	11
PL.21589	PL.21468	C	#2 ACSR	7.35Y	122.5	0.02	2.47	8.90	5	63	19	96	0.01	0.0	3.350	0.070	14	4	2	11

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Balanced Voltage Drop Report
Source: Hargett

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.21590	PL.21589	C	#2 ACSR	7.35Y	122.5	0.02	2.49	6.87	4	48	15	95	0.01	0.0	3.430	0.080	0	0	0	9
PL.21401	PL.21590	C	#1/0 ACSR	7.35Y	122.5	0.00	2.49	1.25	1	9	3	95	0.00	0.0	3.479	0.049	9	3	2	2
PL.21469	PL.21590	C	#2 ACSR	7.35Y	122.5	0.02	2.50	5.62	3	40	12	96	0.01	0.0	3.531	0.101	0	0	0	7
PL.21592	PL.21469	C	#1/0 ACSR	7.35Y	122.5	0.00	2.51	1.79	1	13	4	96	0.00	0.0	3.566	0.035	0	0	1	3
PL.21593	PL.21592	C	#1/0 ACSR	7.35Y	122.5	0.00	2.51	1.77	1	12	4	95	0.00	0.0	3.683	0.117	0	0	1	2
PL.21591	PL.21593	C	#1/0 ACSR	7.35Y	122.5	0.00	2.51	1.74	1	12	4	95	0.00	0.0	3.730	0.047	12	4	1	1
PL.21402	PL.21469	C	#2 ACSR	7.35Y	122.5	0.00	2.51	1.98	1	14	4	96	0.00	0.0	3.616	0.084	14	4	2	2
PL.21594	PL.21469	C	#2 ACSR	7.35Y	122.5	0.00	2.51	1.85	1	13	4	96	0.00	0.0	3.574	0.043	10	3	1	2
PL.21595	PL.21594	C	#2 ACSR	7.35Y	122.5	0.00	2.51	0.38	0	3	1	95	0.00	0.0	3.588	0.014	3	1	1	1
PL.21701	PL.21466	A	#4 ACSR	7.38Y	122.9	0.00	2.07	1.98	2	14	4	96	0.00	0.0	2.619	0.005	0	0	0	3
PD.3104	PL.21701	A	20T	7.38Y	122.9	0.00	2.07	1.98	0	14	4	96	0.00	0.0	2.619	0.005	0	0	0	3
PL.21702	PD.3104	A	#4 ACSR	7.38Y	122.9	0.00	2.07	1.98	2	14	4	96	0.00	0.0	2.668	0.049	5	1	1	3
PL.21562	PL.21702	A	#2 ACSR	7.38Y	122.9	0.01	2.08	1.30	1	9	3	95	0.00	0.0	2.804	0.136	0	0	1	2
PL.21563	PL.21562	A	#2 ACSR	7.37Y	122.9	0.00	2.08	1.23	1	9	3	95	0.00	0.0	2.924	0.120	0	0	0	1
PL.21487	PL.21563	A	#2 ACSR	7.37Y	122.9	0.00	2.09	1.23	1	9	3	95	0.00	0.0	2.996	0.072	9	3	1	1
PL.21691	PL.21694	C	#2 ACSR	7.39Y	123.1	0.00	1.86	0.12	0	1	0	100	0.00	0.0	2.326	0.005	0	0	0	1
PD.3102	PL.21691	C	20T	7.39Y	123.1	0.00	1.86	0.12	0	1	0	100	0.00	0.0	2.326	0.005	0	0	0	1
PL.21692	PD.3102	C	#2 ACSR	7.39Y	123.1	0.00	1.86	0.12	0	1	0	100	0.00	0.0	2.389	0.063	1	0	1	1
PL.21687	PL.21392	C	#1/0 ACSR	7.39Y	123.2	0.00	1.80	0.11	0	1	0	100	0.00	0.0	2.248	0.005	0	0	0	1
PD.3100	PL.21687	C	20T	7.39Y	123.2	0.00	1.80	0.11	0	1	0	100	0.00	0.0	2.248	0.005	0	0	0	1
PL.21688	PD.3100	C	#1/0 ACSR	7.39Y	123.2	0.00	1.80	0.11	0	1	0	100	0.00	0.0	2.294	0.046	1	0	1	1
PL.21647	PL.21461	A	#1/0 ACSR	7.40Y	123.3	0.00	1.73	0.75	0	5	2	93	0.00	0.0	2.164	0.005	0	0	0	2
PD.3079	PL.21647	A	20T	7.40Y	123.3	0.00	1.73	0.75	0	5	2	93	0.00	0.0	2.164	0.005	0	0	0	2
PL.21646	PD.3079	A	#1/0 ACSR	7.40Y	123.3	0.00	1.73	0.75	0	5	2	93	0.00	0.0	2.208	0.044	5	2	2	2
PL.21640	PL.21457	A	#1/0 ACSR	7.41Y	123.5	0.00	1.46	0.06	0	0	0	100	0.00	0.0	1.856	0.005	0	0	0	1
PD.3076	PL.21640	A	20T	7.41Y	123.5	0.00	1.46	0.06	0	0	0	100	0.00	0.0	1.856	0.005	0	0	0	1
PL.21641	PD.3076	A	#1/0 ACSR	7.41Y	123.5	0.00	1.46	0.06	0	0	0	100	0.00	0.0	1.882	0.026	0	0	0	1
PL.21385	PL.21641	A	#4 ACSR	7.41Y	123.5	0.00	1.46	0.06	0	0	0	100	0.00	0.0	1.932	0.050	0	0	0	1
PL.21386	PL.21385	A	#4 ACSR	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	1.986	0.054	0	0	0	0
PL.21459	PL.21385	A	#4 ACSR	7.41Y	123.5	0.00	1.46	0.06	0	0	0	100	0.00	0.0	2.021	0.089	0	0	1	1
PL.21683	PL.21384	A	#1/0 ACSR	7.42Y	123.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	1.747	0.005	0	0	0	1

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Balanced Voltage Drop Report
Source: Hargett

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.3097	PL.21683	A	20T	7.42Y	123.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	1.747	0.005	0	0	0	1
PL.21684	PD.3097	A	#1/0 ACSR	7.42Y	123.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	1.751	0.005	0	0	1	1
PL.21634	PL.21347	A	#1/0 ACSR	7.44Y	124.0	0.00	0.96	0.97	0	7	2	96	0.00	0.0	1.297	0.005	0	0	0	1
PD.3073	PL.21634	A	65T	7.44Y	124.0	0.00	0.96	0.97	0	7	2	96	0.00	0.0	1.297	0.005	0	0	0	1
PL.21635	PD.3073	A	#1/0 ACSR	7.44Y	124.0	0.00	0.96	0.97	0	7	2	96	0.00	0.0	1.313	0.015	7	2	1	1
PL.21625	PL.21340	A	6 A (CWC)	7.47Y	124.5	0.00	0.53	2.27	2	16	5	95	0.00	0.0	0.766	0.005	0	0	0	1
PD.3068	PL.21625	A	65T	7.47Y	124.5	0.00	0.53	2.27	0	16	5	95	0.00	0.0	0.766	0.005	0	0	0	1
PL.21626	PD.3068	A	6 A (CWC)	7.47Y	124.5	0.00	0.53	2.27	2	16	5	95	0.00	0.0	0.828	0.063	16	5	1	1
PL.21678	PL.21340	C	6 A (CWC)	7.47Y	124.5	0.00	0.53	9.38	7	67	20	96	0.00	0.0	0.766	0.005	0	0	0	12
PD.3094	PL.21678	C	65T	7.47Y	124.5	0.00	0.53	9.38	0	67	20	96	0.00	0.0	0.766	0.005	0	0	0	12
PL.21679	PD.3094	C	6 A (CWC)	7.47Y	124.5	0.01	0.53	9.38	7	67	20	96	0.00	0.0	0.784	0.018	0	0	0	12
PL.21447	PL.21679	C	6 A (CWC)	7.47Y	124.5	0.01	0.55	3.24	2	23	7	96	0.00	0.0	0.859	0.074	3	1	1	5
PL.21342	PL.21447	C	#4 ACSR	7.47Y	124.4	0.01	0.55	2.86	2	20	6	96	0.00	0.0	0.904	0.045	0	0	0	4
PL.21538	PL.21342	C	#4 ACSR	7.47Y	124.4	0.00	0.55	1.65	1	12	4	95	0.00	0.0	0.939	0.035	3	1	2	3
PL.21539	PL.21538	C	#4 ACSR	7.47Y	124.4	0.00	0.55	1.26	1	9	3	95	0.00	0.0	0.974	0.036	9	3	1	1
PL.21343	PL.21342	C	#4 ACSR	7.47Y	124.4	0.00	0.55	1.21	1	9	3	95	0.00	0.0	0.992	0.089	9	3	1	1
PL.21341	PL.21679	C	#1/0 ACSR	7.47Y	124.5	0.01	0.55	6.14	3	44	13	96	0.00	0.0	0.870	0.086	0	0	0	7
PL.21680	PL.21341	C	1/0 AL URD	7.47Y	124.5	0.00	0.55	4.74	3	34	10	96	0.00	0.0	0.875	0.005	0	0	0	5
PD.3095	PL.21680	C	65T	7.47Y	124.5	0.00	0.55	4.74	0	34	10	96	0.00	0.0	0.875	0.005	0	0	0	5
PL.21514	PD.3095	C	1/0 AL URD	7.47Y	124.4	0.01	0.56	4.74	3	34	10	96	0.00	0.0	0.970	0.096	7	2	1	5
PL.21614	PL.21514	C	1/0 AL URD	7.47Y	124.4	0.00	0.56	3.70	2	26	8	96	0.00	0.0	1.002	0.032	8	2	1	4
PL.21615	PL.21614	C	1/0 AL URD	7.47Y	124.4	0.01	0.57	2.57	2	18	6	95	0.00	0.0	1.075	0.073	0	0	0	3
PL.21613	PL.21615	C	1/0 AL URD	7.47Y	124.4	0.00	0.57	2.17	1	16	5	95	0.00	0.0	1.105	0.030	16	5	2	2
PL.21519	PL.21613	C	1/0 AL URD	7.47Y	124.4	0.00	0.57	0.00	0	0	0	100	0.00	0.0	1.171	0.067	0	0	0	0
PL.21437	PL.21615	C	1/0 AL URD	7.47Y	124.4	0.00	0.57	0.39	0	3	1	95	0.00	0.0	1.089	0.014	3	1	1	1
PL.21627	PL.21341	C	1/0 AL URD	7.47Y	124.5	0.00	0.55	1.40	1	10	3	96	0.00	0.0	0.875	0.005	0	0	0	2
PD.3069	PL.21627	C	65T	7.47Y	124.5	0.00	0.55	1.40	0	10	3	96	0.00	0.0	0.875	0.005	0	0	0	2
PL.21515	PD.3069	C	1/0 AL URD	7.47Y	124.4	0.00	0.55	1.40	1	10	3	96	0.00	0.0	0.945	0.071	0	0	0	2
PL.21516	PL.21515	C	1/0 AL URD	7.47Y	124.4	0.00	0.55	0.00	0	0	0	100	0.00	0.0	1.049	0.104	0	0	0	0
PL.21436	PL.21515	C	1/0 AL URD	7.47Y	124.4	0.00	0.55	1.40	1	10	3	96	0.00	0.0	0.988	0.042	10	3	2	2
PL.21623	PL.21444	A	#4 ACSR	7.48Y	124.6	0.00	0.37	1.26	1	9	3	95	0.00	0.0	0.587	0.005	0	0	0	1

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Balanced Voltage Drop Report
Source: Hargett

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.3067	PL.21623	A	65T	7.48Y	124.6	0.00	0.37	1.26	0	9	3	95	0.00	0.0	0.587	0.005	0	0	0	1
PL.21624	PD.3067	A	#4 ACSR	7.48Y	124.6	0.00	0.37	1.26	1	9	3	95	0.00	0.0	0.666	0.079	9	3	1	1
PL.21335	PL.21334	B	#2 ACSR	7.49Y	124.9	0.00	0.13	1.55	1	11	3	96	0.00	0.0	0.352	0.051	11	3	1	1
PL.21619	PL.21334	C	#4 ACSR	7.49Y	124.9	0.00	0.13	1.80	1	13	4	96	0.00	0.0	0.305	0.005	0	0	0	3
PD.3065	PL.21619	C	65T	7.49Y	124.9	0.00	0.13	1.80	0	13	4	96	0.00	0.0	0.305	0.005	0	0	0	3
PL.21620	PD.3065	C	#4 ACSR	7.49Y	124.9	0.00	0.13	1.80	1	13	4	96	0.00	0.0	0.334	0.029	0	0	0	3
PL.21535	PL.21620	C	#4 ACSR	7.49Y	124.9	0.00	0.13	1.80	1	13	4	96	0.00	0.0	0.399	0.065	13	4	3	3
PL.21521	PL.21439	B	#2 ACSR	7.50Y	125.0	0.01	0.03	15.92	9	114	34	96	0.01	0.0	0.125	0.024	10	3	2	20
PL.21707	PL.21521	B	#2 ACSR	7.50Y	125.0	0.00	0.03	14.51	8	104	31	96	0.00	0.0	0.128	0.003	0	0	0	18
PD.3107	PL.21707	B	35L	7.50Y	125.0	0.00	0.03	14.51	41	104	31	96	0.00	0.0	0.128	0.003	0	0	0	18
PL.21708	PD.3107	B	#2 ACSR	7.50Y	124.9	0.02	0.06	14.51	8	104	31	96	0.02	0.0	0.184	0.057	10	3	1	18
PL.21333	PL.21708	B	#4 ACSR	7.50Y	124.9	0.00	0.06	0.87	1	6	2	95	0.00	0.0	0.218	0.034	6	2	1	1
PL.21329	PL.21708	B	6 A (CWC)	7.50Y	124.9	0.01	0.07	12.29	9	88	27	96	0.01	0.0	0.208	0.024	0	0	0	16
PL.21332	PL.21329	B	#2 ACSR	7.50Y	124.9	0.00	0.07	1.58	1	11	3	96	0.00	0.0	0.278	0.070	0	0	0	1
PL.21674	PL.21332	B	1/0 AL URD	7.50Y	124.9	0.00	0.07	1.58	1	11	3	96	0.00	0.0	0.283	0.005	0	0	0	1
PD.3092	PL.21674	B	65T	7.50Y	124.9	0.00	0.07	1.58	0	11	3	96	0.00	0.0	0.283	0.005	0	0	0	1
PL.21675	PD.3092	B	1/0 AL URD	7.50Y	124.9	0.00	0.08	1.58	1	11	3	96	0.00	0.0	0.445	0.162	11	3	1	1
PL.21441	PL.21329	B	6 A (CWC)	7.49Y	124.9	0.04	0.11	10.72	8	77	23	96	0.02	0.0	0.294	0.086	0	0	0	15
PL.21328	PL.21441	B	6 A (CWC)	7.49Y	124.8	0.04	0.15	9.79	7	70	21	96	0.02	0.0	0.388	0.094	10	3	1	12
PL.21324	PL.21328	B	#4 ACSR	7.49Y	124.8	0.01	0.16	8.36	6	60	18	96	0.01	0.0	0.418	0.030	0	0	0	11
PL.21442	PL.21324	B	#4 ACSR	7.49Y	124.8	0.01	0.18	8.36	6	60	18	96	0.01	0.0	0.452	0.034	0	0	0	11
PL.21326	PL.21442	B	#4 ACSR	7.49Y	124.8	0.00	0.18	0.53	0	4	1	97	0.00	0.0	0.534	0.082	4	1	1	1
PL.21606	PL.21442	B	#4 ACSR	7.49Y	124.8	0.02	0.20	7.83	6	56	17	96	0.01	0.0	0.510	0.058	0	0	2	10
PL.21607	PL.21606	B	#4 ACSR	7.49Y	124.8	0.02	0.22	7.78	6	56	17	96	0.01	0.0	0.586	0.076	8	2	2	8
PL.21605	PL.21607	B	#4 ACSR	7.49Y	124.8	0.02	0.24	6.73	5	48	14	96	0.01	0.0	0.653	0.068	0	0	0	6
PL.21323	PL.21605	B	#4 ACSR	7.48Y	124.7	0.01	0.25	5.64	4	40	12	96	0.00	0.0	0.710	0.056	0	0	0	5
PL.21322	PL.21323	B	#4 ACSR	7.48Y	124.7	0.02	0.28	5.24	4	38	11	96	0.01	0.0	0.848	0.139	23	7	1	4
PL.21321	PL.21322	B	#4 ACSR	7.48Y	124.7	0.01	0.29	2.08	2	15	4	97	0.00	0.0	0.931	0.082	0	0	1	3
PL.21320	PL.21321	B	#4 ACSR	7.48Y	124.7	0.00	0.29	1.35	1	10	3	96	0.00	0.0	1.019	0.089	10	3	1	1
PL.21603	PL.21321	B	#4 ACSR	7.48Y	124.7	0.00	0.29	0.71	1	5	2	93	0.00	0.0	1.003	0.073	5	2	1	1
PL.21604	PL.21603	B	#4 ACSR	7.48Y	124.7	0.00	0.29	0.00	0	0	0	100	0.00	0.0	1.090	0.087	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: Hargett

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.21443	PL.21323	B	#4 ACSR	7.48Y	124.7	0.00	0.26	0.39	0	3	1	95	0.00	0.0	0.766	0.057	3	1	1	1
PL.21325	PL.21605	B	#4 ACSR	7.49Y	124.8	0.00	0.24	1.09	1	8	2	97	0.00	0.0	0.737	0.084	8	2	1	1
PL.21327	PL.21324	B	#4 ACSR	7.49Y	124.8	0.00	0.16	0.00	0	0	0	100	0.00	0.0	0.468	0.049	0	0	0	0
PL.21330	PL.21441	B	#4 ACSR	7.49Y	124.9	0.00	0.11	0.93	1	7	2	96	0.00	0.0	0.350	0.056	7	2	2	2
PL.21331	PL.21441	B	6 A (CWC)	7.49Y	124.9	0.00	0.11	0.01	0	0	0	100	0.00	0.0	0.348	0.054	0	0	1	1
PL.21524	Hargett	ABC	636 SPACER	7.50Y	125.0	0.00	0.00	90.35	17	1928	643	95	0.00	0.0	0.006	0.006	0	0	0	369
PL.72939	PL.21524	ABC	636 SPACER	7.50Y	125.0	0.00	0.00	90.35	17	1928	643	95	0.00	0.0	0.009	0.003	0	0	0	369
---------- Feeder No. 3 (Lower Bend F3) Beginning with Device PD.11207 ----------																				
PD.11207	PL.72939	ABC	360VWE	7.50Y	125.0	0.00	0.00	90.35	0	1928	643	95	0.00	0.0	0.009	0.003	0	0	0	369
PL.21525	PD.11207	ABC	636 SPACER	7.50Y	125.0	0.00	0.01	90.35	17	1928	643	95	0.01	0.0	0.017	0.009	0	0	0	369
PL.21780	PL.21525	ABC	#2 ACSR	7.50Y	125.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	0.022	0.005	0	0	0	0
PL.22496	PL.21525	ABC	636 SPACER	7.50Y	125.0	0.02	0.02	90.35	17	1928	643	95	0.04	0.0	0.066	0.049	0	0	0	369
PL.22535	PL.22496	ABC	636 SPACER	7.50Y	125.0	0.02	0.05	90.35	17	1928	642	95	0.06	0.0	0.136	0.070	0	0	0	369
PL.22536	PL.22535	ABC	636 SPACER	7.50Y	124.9	0.03	0.08	90.35	17	1928	641	95	0.08	0.0	0.237	0.101	0	0	0	369
PL.22537	PL.22536	ABC	636 SPACER	7.49Y	124.9	0.02	0.10	90.35	17	1928	640	95	0.05	0.0	0.307	0.070	0	0	0	369
PL.22538	PL.22537	ABC	636 SPACER	7.49Y	124.9	0.03	0.14	90.35	17	1928	639	95	0.08	0.0	0.408	0.101	0	0	0	369
PL.22539	PL.22538	ABC	636 SPACER	7.49Y	124.8	0.04	0.17	90.35	17	1928	637	95	0.09	0.0	0.523	0.114	0	0	0	369
PL.22540	PL.22539	ABC	636 SPACER	7.49Y	124.8	0.04	0.22	90.35	17	1928	635	95	0.10	0.0	0.655	0.132	0	0	0	369
PL.22541	PL.22540	ABC	636 SPACER	7.48Y	124.7	0.05	0.27	90.35	17	1928	633	95	0.12	0.0	0.808	0.153	0	0	0	369
PL.22542	PL.22541	ABC	636 SPACER	7.48Y	124.7	0.03	0.30	90.35	17	1928	631	95	0.08	0.0	0.907	0.098	0	0	0	369
PL.22543	PL.22542	ABC	636 SPACER	7.48Y	124.7	0.04	0.34	90.35	17	1928	630	95	0.09	0.0	1.027	0.120	0	0	0	369
PL.22544	PL.22543	ABC	636 SPACER	7.48Y	124.6	0.04	0.38	90.35	17	1928	628	95	0.11	0.0	1.161	0.134	0	0	0	369
PL.22545	PL.22544	ABC	636 SPACER	7.48Y	124.6	0.03	0.41	90.35	17	1927	626	95	0.06	0.0	1.242	0.081	0	0	0	369
PL.21781	PL.22545	ABC	556 MCM AC	7.47Y	124.5	0.04	0.45	90.35	13	1927	625	95	0.10	0.0	1.368	0.126	0	0	0	369
PL.22546	PL.21781	ABC	556 MCM AC	7.47Y	124.5	0.04	0.49	90.35	13	1927	623	95	0.08	0.0	1.481	0.112	0	0	0	369
PL.22744	PL.22546	C	6 A (CWC)	7.47Y	124.5	0.00	0.49	0.20	0	1	0	100	0.00	0.0	1.486	0.005	0	0	0	1
PD.3205	PL.22744	C	65T	7.47Y	124.5	0.00	0.49	0.20	0	1	0	100	0.00	0.0	1.486	0.005	0	0	0	1
PL.22745	PD.3205	C	6 A (CWC)	7.47Y	124.5	0.00	0.49	0.20	0	1	0	100	0.00	0.0	1.627	0.141	1	0	1	1
PL.22497	PL.22546	ABC	556 MCM AC	7.47Y	124.5	0.02	0.51	90.28	13	1926	621	95	0.04	0.0	1.539	0.058	0	0	0	368

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: Hargett

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.22498	PL.22497	ABC	556 MCM AC	7.47Y	124.4	0.04	0.55	87.33	12	1863	601	95	0.10	0.0	1.675	0.136	0	0	0	354
PL.22547	PL.22498	ABC	556 MCM AC	7.46Y	124.4	0.05	0.60	87.33	12	1862	599	95	0.11	0.0	1.827	0.151	0	0	0	354
PL.22548	PL.22547	ABC	556 MCM AC	7.46Y	124.4	0.04	0.64	87.33	12	1862	597	95	0.08	0.0	1.945	0.118	0	0	0	354
PL.22549	PL.22548	ABC	556 MCM AC	7.46Y	124.3	0.03	0.67	87.33	12	1862	595	95	0.08	0.0	2.052	0.107	0	0	0	354
PL.22752	PL.22549	A	6 A (CWC)	7.46Y	124.3	0.00	0.67	1.48	1	11	3	96	0.00	0.0	2.057	0.005	0	0	0	4
PD.3209	PL.22752	A	65T	7.46Y	124.3	0.00	0.67	1.48	0	11	3	96	0.00	0.0	2.057	0.005	0	0	0	4
PL.22753	PD.3209	A	6 A (CWC)	7.46Y	124.3	0.01	0.68	1.48	1	11	3	96	0.00	0.0	2.161	0.105	0	0	0	4
PL.22571	PL.22753	A	6 A (CWC)	7.46Y	124.3	0.01	0.68	1.48	1	11	3	96	0.00	0.0	2.268	0.107	4	1	2	4
PL.21784	PL.22571	A	#2 ACSR	7.46Y	124.3	0.00	0.68	0.58	0	4	1	97	0.00	0.0	2.300	0.031	4	1	1	1
PL.22572	PL.22571	A	6 A (CWC)	7.46Y	124.3	0.00	0.69	0.36	0	3	1	95	0.00	0.0	2.404	0.135	0	0	0	1
PL.22499	PL.22572	A	6 A (CWC)	7.46Y	124.3	0.00	0.69	0.00	0	0	0	100	0.00	0.0	2.458	0.055	0	0	0	0
PL.22608	PL.22572	A	#4 ACSR	7.46Y	124.3	0.00	0.69	0.36	0	3	1	95	0.00	0.0	2.453	0.050	3	1	1	1
PL.22609	PL.22608	A	#4 ACSR	7.46Y	124.3	0.00	0.69	0.00	0	0	0	100	0.00	0.0	2.550	0.096	0	0	0	0
PL.22816	PL.22549	ABC	556 MCM AC	7.46Y	124.3	0.02	0.69	86.84	12	1852	590	95	0.04	0.0	2.115	0.063	0	0	0	350
PD.3241-A	PL.22816	ABC	Closed	7.46Y	124.3	0.00	0.69	86.84	0	1852	590	95	0.00	0.0	2.115	0.063	0	0	0	350
PD.3241-B	PD.3241-A	ABC	Closed	7.46Y	124.3	0.00	0.69	86.84	0	1852	590	95	0.00	0.0	2.115	0.063	0	0	0	350
PL.22817	PD.3241-B	ABC	556 MCM AC	7.46Y	124.3	0.01	0.70	86.84	12	1852	590	95	0.03	0.0	2.153	0.038	0	0	0	350
PL.22610	PL.22817	ABC	556 MCM AC	7.46Y	124.3	0.04	0.75	86.84	12	1852	589	95	0.10	0.0	2.295	0.142	0	0	0	350
PL.22550	PL.22610	ABC	556 MCM AC	7.45Y	124.2	0.05	0.79	86.84	12	1851	587	95	0.11	0.0	2.447	0.152	0	0	0	350
PL.22551	PL.22550	ABC	556 MCM AC	7.45Y	124.2	0.04	0.84	86.84	12	1851	585	95	0.10	0.0	2.591	0.144	0	0	0	350
PL.22820	PL.22551	ABC	556 MCM AC	7.45Y	124.1	0.05	0.88	86.84	12	1851	583	95	0.10	0.0	2.739	0.148	0	0	0	350
PD.3243-A	PL.22820	ABC	Closed	7.45Y	124.1	0.00	0.88	86.84	0	1851	581	95	0.00	0.0	2.739	0.148	0	0	0	350
PD.3243-B	PD.3243-A	ABC	Closed	7.45Y	124.1	0.00	0.88	86.84	0	1851	581	95	0.00	0.0	2.739	0.148	0	0	0	350
PL.22821	PD.3243-B	ABC	556 MCM AC	7.45Y	124.1	0.01	0.90	86.84	12	1851	581	95	0.03	0.0	2.784	0.045	0	0	0	350
PL.21785	PL.22821	A	#4 ACSR	7.45Y	124.1	0.01	0.91	5.15	4	37	11	96	0.00	0.0	2.835	0.052	0	0	0	8
PL.22754	PL.21785	A	6 A (CWC)	7.45Y	124.1	0.00	0.91	3.70	3	26	8	96	0.00	0.0	2.840	0.005	0	0	0	7
PD.3210	PL.22754	A	20T	7.45Y	124.1	0.00	0.91	3.70	0	26	8	96	0.00	0.0	2.840	0.005	0	0	0	7
PL.22755	PD.3210	A	6 A (CWC)	7.44Y	124.1	0.02	0.93	3.70	3	26	8	96	0.00	0.0	2.943	0.103	4	1	1	7
PL.22617	PL.22755	A	6 A (CWC)	7.44Y	124.1	0.01	0.93	3.18	2	23	7	96	0.00	0.0	2.991	0.047	8	2	1	6
PL.22616	PL.22617	A	6 A (CWC)	7.44Y	124.1	0.00	0.93	2.09	1	15	4	97	0.00	0.0	3.024	0.033	0	0	0	5
PL.22615	PL.22616	A	6 A (CWC)	7.44Y	124.1	0.01	0.94	2.09	1	15	4	97	0.00	0.0	3.080	0.056	0	0	0	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: Hargett

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.21791	PL.22615	A	#2 ACSR	7.44Y	124.1	0.00	0.94	2.03	1	14	4	96	0.00	0.0	3.182	0.102	14	4	3	3
PL.22736	PL.22615	A	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.06	0	0	0	100	0.00	0.0	3.177	0.097	0	0	0	2
PL.22737	PL.22736	A	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.06	0	0	0	100	0.00	0.0	3.339	0.162	0	0	2	2
PL.21787	PL.21785	A	#2 ACSR	7.45Y	124.1	0.00	0.91	1.45	1	10	3	96	0.00	0.0	2.844	0.009	10	3	1	1
PL.22500	PL.22821	ABC	556 MCM AC	7.44Y	124.1	0.05	0.94	85.13	12	1814	569	95	0.10	0.0	2.934	0.150	0	0	0	342
PL.22552	PL.22500	ABC	556 MCM AC	7.44Y	124.0	0.02	0.96	85.13	12	1814	567	95	0.04	0.0	2.989	0.055	0	0	0	342
PL.22756	PL.22552	C	#4 ACSR	7.44Y	124.0	0.00	0.96	8.18	6	58	18	96	0.00	0.0	2.994	0.005	0	0	0	11
PD.3211	PL.22756	C	65T	7.44Y	124.0	0.00	0.96	8.18	0	58	18	96	0.00	0.0	2.994	0.005	0	0	0	11
PL.22757	PD.3211	C	#4 ACSR	7.44Y	124.0	0.03	0.99	8.18	6	58	18	96	0.01	0.0	3.081	0.087	0	0	0	11
PL.21786	PL.22757	C	#4 ACSR	7.44Y	124.0	0.02	1.01	2.65	2	19	6	95	0.00	0.0	3.228	0.147	0	0	0	2
PL.22655	PL.21786	C	#4 ACSR	7.44Y	124.0	0.01	1.02	2.65	2	19	6	95	0.00	0.0	3.364	0.137	12	4	1	2
PL.22656	PL.22655	C	#4 ACSR	7.44Y	124.0	0.00	1.02	0.96	1	7	2	96	0.00	0.0	3.436	0.072	0	0	0	1
PL.22553	PL.22656	C	#4 ACSR	7.44Y	124.0	0.00	1.03	0.96	1	7	2	96	0.00	0.0	3.573	0.136	7	2	1	1
PL.22502	PL.22757	C	#4 ACSR	7.44Y	124.0	0.01	1.00	2.15	2	15	5	95	0.00	0.0	3.216	0.136	4	1	1	5
PL.21793	PL.22502	C	#4 ACSR	7.44Y	124.0	0.00	1.00	1.02	1	7	2	96	0.00	0.0	3.241	0.025	0	0	0	3
PL.22622	PL.21793	C	6 A (CWC)	7.44Y	124.0	0.00	1.01	1.02	1	7	2	96	0.00	0.0	3.293	0.052	7	2	1	3
PL.22623	PL.22622	C	6 A (CWC)	7.44Y	124.0	0.00	1.01	0.04	0	0	0	100	0.00	0.0	3.390	0.097	0	0	2	2
PL.21794	PL.22502	C	#2 ACSR	7.44Y	124.0	0.00	1.00	0.60	0	4	1	97	0.00	0.0	3.249	0.033	4	1	1	1
PL.22620	PL.22757	C	#4 ACSR	7.44Y	124.0	0.01	1.00	3.39	3	24	7	96	0.00	0.0	3.149	0.069	13	4	1	4
PL.22621	PL.22620	C	#4 ACSR	7.44Y	124.0	0.00	1.00	1.57	1	11	3	96	0.00	0.0	3.183	0.034	0	0	0	3
PL.22503	PL.22621	C	#4 ACSR	7.44Y	124.0	0.00	1.00	0.62	0	4	1	97	0.00	0.0	3.240	0.056	0	0	0	2
PL.22618	PL.22503	C	#2 ACSR	7.44Y	124.0	0.00	1.00	0.62	0	4	1	97	0.00	0.0	3.262	0.022	4	1	1	2
PL.22619	PL.22618	C	#2 ACSR	7.44Y	124.0	0.00	1.00	0.04	0	0	0	100	0.00	0.0	3.309	0.048	0	0	1	1
PL.21792	PL.22621	C	#2 ACSR	7.44Y	124.0	0.00	1.00	0.95	1	7	2	96	0.00	0.0	3.297	0.113	7	2	1	1
PL.22501	PL.22552	ABC	556 MCM AC	7.44Y	124.0	0.04	1.00	82.40	12	1756	549	95	0.09	0.0	3.130	0.141	0	0	0	331
PL.22554	PL.22501	ABC	556 MCM AC	7.44Y	124.0	0.04	1.04	82.40	12	1756	547	95	0.10	0.0	3.284	0.154	0	0	0	331
PL.22653	PL.22554	ABC	556 MCM AC	7.44Y	123.9	0.03	1.07	82.40	12	1756	545	96	0.06	0.0	3.385	0.101	0	0	0	331
PL.22654	PL.22653	ABC	556 MCM AC	7.43Y	123.9	0.05	1.12	82.40	12	1756	544	96	0.10	0.0	3.545	0.159	0	0	0	331
PL.22555	PL.22654	ABC	556 MCM AC	7.43Y	123.8	0.03	1.15	82.40	12	1756	542	96	0.07	0.0	3.651	0.107	0	0	0	331
PL.22658	PL.22555	ABC	#3/0 ACSR	7.43Y	123.8	0.05	1.20	37.81	13	806	246	96	0.26	0.0	3.759	0.108	9	3	2	137
PL.22660	PL.22658	ABC	#3/0 ACSR	7.43Y	123.8	0.03	1.24	37.38	12	797	243	96	0.16	0.0	3.829	0.070	3	1	1	135

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Balanced Voltage Drop Report
Source: Hargett

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.22661	PL.22660	ABC	#3/0 ACSR	7.42Y	123.7	0.03	1.27	37.23	12	793	242	96	0.16	0.0	3.899	0.069	0	0	1	134
PL.22662	PL.22661	B	6 A (CWC)	7.42Y	123.7	0.00	1.27	0.57	0	4	1	97	0.00	0.0	3.928	0.029	4	1	1	1
PL.22804	PL.22662	B	6 A (CWC)	7.42Y	123.7	0.00	1.27	0.00	0	0	0	100	0.00	0.0	3.933	0.005	0	0	0	0
PD.3235	PL.22804	B	65T	7.42Y	123.7	0.00	1.27	0.00	0	0	0	100	0.00	0.0	3.933	0.005	0	0	0	0
PL.22805	PD.3235	B	6 A (CWC)	7.42Y	123.7	0.00	1.27	0.00	0	0	0	100	0.00	0.0	3.972	0.039	0	0	0	0
PL.22663	PL.22661	ABC	#3/0 ACSR	7.42Y	123.7	0.05	1.32	37.04	12	789	240	96	0.24	0.0	4.004	0.105	0	0	1	132
PL.22675	PL.22663	ABC	#3/0 ACSR	7.42Y	123.6	0.05	1.37	37.04	12	789	240	96	0.22	0.0	4.100	0.096	6	2	1	131
PL.22676	PL.22675	ABC	#3/0 ACSR	7.42Y	123.6	0.02	1.39	36.76	12	783	238	96	0.11	0.0	4.149	0.050	0	0	0	130
PL.22530	PL.22676	ABC	#3/0 ACSR	7.41Y	123.5	0.08	1.47	36.00	12	767	233	96	0.37	0.0	4.320	0.171	0	0	0	125
PL.22673	PL.22530	ABC	#3/0 ACSR	7.41Y	123.5	0.02	1.49	36.00	12	766	232	96	0.11	0.0	4.371	0.051	2	1	1	125
PL.22674	PL.22673	ABC	#3/0 ACSR	7.41Y	123.5	0.04	1.53	35.92	12	764	232	96	0.20	0.0	4.462	0.091	0	0	1	124
PL.22768	PL.22674	ABC	#3/0 ACSR	7.41Y	123.4	0.03	1.57	35.92	12	764	231	96	0.15	0.0	4.531	0.069	0	0	0	123
PL.22769	PL.22768	ABC	#3/0 ACSR	7.41Y	123.4	0.00	1.57	35.92	12	764	231	96	0.01	0.0	4.536	0.004	0	0	0	123
PL.22678	PL.22769	ABC	#3/0 ACSR	7.41Y	123.4	0.00	1.57	35.20	12	749	226	96	0.00	0.0	4.538	0.002	8	2	3	122
PL.22679	PL.22678	ABC	#3/0 ACSR	7.40Y	123.4	0.04	1.61	34.84	12	741	224	96	0.19	0.0	4.632	0.094	6	2	1	119
PL.22672	PL.22679	ABC	#3/0 ACSR	7.40Y	123.3	0.08	1.69	34.54	12	734	222	96	0.37	0.1	4.818	0.186	2	0	1	118
PL.22762	PL.22672	A	#2 ACSR	7.40Y	123.3	0.00	1.69	0.49	0	3	1	95	0.00	0.0	4.823	0.005	0	0	0	1
PD.3214	PL.22762	A	65T	7.40Y	123.3	0.00	1.69	0.49	0	3	1	95	0.00	0.0	4.823	0.005	0	0	0	1
PL.22763	PD.3214	A	#2 ACSR	7.40Y	123.3	0.00	1.69	0.49	0	3	1	95	0.00	0.0	4.869	0.047	3	1	1	1
PL.22588	PL.22672	ABC	#3/0 ACSR	7.40Y	123.3	0.03	1.72	34.30	11	729	220	96	0.12	0.0	4.881	0.063	2	1	2	116
PL.22589	PL.22588	ABC	#3/0 ACSR	7.40Y	123.3	0.01	1.73	31.62	11	672	203	96	0.05	0.0	4.911	0.030	15	5	2	105
PL.22826	PL.22589	C	6 A (CWC)	7.40Y	123.3	0.00	1.74	22.18	16	157	47	96	0.00	0.0	4.913	0.003	0	0	0	25
PD.3247	PL.22826	C	35L	7.40Y	123.3	0.00	1.74	22.18	63	157	47	96	0.00	0.0	4.913	0.003	0	0	0	25
PL.22827	PD.3247	C	6 A (CWC)	7.39Y	123.2	0.05	1.78	22.18	16	157	47	96	0.05	0.0	4.962	0.049	17	5	2	25
PL.22669	PL.22827	C	6 A (CWC)	7.39Y	123.2	0.06	1.84	19.79	14	140	42	96	0.06	0.0	5.029	0.066	5	1	1	23
PL.22668	PL.22669	C	6 A (CWC)	7.39Y	123.1	0.01	1.85	19.08	14	135	41	96	0.01	0.0	5.038	0.010	2	1	1	22
PL.22691	PL.22668	C	6 A (CWC)	7.39Y	123.1	0.01	1.86	18.73	13	133	40	96	0.01	0.0	5.052	0.014	12	4	1	21
PL.22692	PL.22691	C	6 A (CWC)	7.39Y	123.1	0.05	1.91	16.97	12	120	36	96	0.04	0.0	5.110	0.058	1	0	1	20
PL.22641	PL.22692	C	6 A (CWC)	7.38Y	123.0	0.05	1.96	16.86	12	119	36	96	0.05	0.0	5.180	0.070	0	0	0	19
PL.22645	PL.22641	C	6 A (CWC)	7.38Y	123.0	0.04	2.00	10.27	7	73	22	96	0.02	0.0	5.258	0.078	8	2	2	10
PL.22646	PL.22645	C	6 A (CWC)	7.38Y	122.9	0.06	2.05	9.18	7	65	20	96	0.03	0.0	5.392	0.134	0	0	0	8

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Balanced Voltage Drop Report
Source: Hargett

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.22557	PL.22646	C	6 A (CWC)	7.37Y	122.9	0.05	2.10	9.18	7	65	19	96	0.02	0.0	5.511	0.119	0	0	0	8
PL.22643	PL.22557	C	6 A (CWC)	7.37Y	122.9	0.03	2.13	9.18	7	65	19	96	0.01	0.0	5.577	0.066	11	3	3	8
PL.22644	PL.22643	C	6 A (CWC)	7.37Y	122.9	0.02	2.14	7.64	5	54	16	96	0.01	0.0	5.624	0.047	8	2	1	5
PL.22642	PL.22644	C	6 A (CWC)	7.37Y	122.8	0.04	2.19	6.56	5	46	14	96	0.01	0.0	5.780	0.155	12	4	1	4
PL.22637	PL.22642	C	6 A (CWC)	7.37Y	122.8	0.01	2.20	4.89	3	35	10	96	0.00	0.0	5.826	0.047	0	0	0	3
PL.22465	PL.22637	C	#4 ACSR	7.37Y	122.8	0.00	2.20	1.21	1	9	3	95	0.00	0.0	5.871	0.045	9	3	1	1
PL.22592	PL.22637	C	6 A (CWC)	7.37Y	122.8	0.01	2.21	1.73	1	12	4	95	0.00	0.0	5.961	0.134	0	0	0	1
PL.22466	PL.22592	C	6 A (CWC)	7.37Y	122.8	0.00	2.21	1.73	1	12	4	95	0.00	0.0	6.021	0.060	12	4	1	1
PL.22593	PL.22592	C	6 A (CWC)	7.37Y	122.8	0.00	2.21	0.00	0	0	0	100	0.00	0.0	6.062	0.102	0	0	0	0
PL.22464	PL.22637	C	#4 ACSR	7.37Y	122.8	0.00	2.20	1.95	2	14	4	96	0.00	0.0	5.913	0.086	14	4	1	1
PL.22462	PL.22641	C	6 A (CWC)	7.38Y	123.0	0.01	1.97	6.59	5	47	14	96	0.00	0.0	5.230	0.050	12	4	3	9
PL.22638	PL.22462	C	#4 ACSR	7.38Y	123.0	0.01	1.98	4.86	4	34	10	96	0.00	0.0	5.274	0.044	3	1	1	6
PL.22639	PL.22638	C	#4 ACSR	7.38Y	123.0	0.01	2.00	4.41	3	31	9	96	0.00	0.0	5.339	0.065	8	3	2	5
PL.22640	PL.22639	C	#4 ACSR	7.38Y	123.0	0.01	2.00	3.23	2	23	7	96	0.00	0.0	5.393	0.054	10	3	1	3
PL.22463	PL.22640	C	#2 ACSR	7.38Y	123.0	0.00	2.00	0.70	0	5	1	98	0.00	0.0	5.433	0.039	5	1	1	1
PL.22587	PL.22640	C	#4 ACSR	7.38Y	123.0	0.00	2.00	1.09	1	8	2	97	0.00	0.0	5.462	0.069	8	2	1	1
PL.22670	PL.22589	ABC	#3/0 ACSR	7.39Y	123.2	0.02	1.76	23.50	8	499	151	96	0.07	0.0	4.988	0.078	5	1	1	78
PL.22671	PL.22670	ABC	#3/0 ACSR	7.39Y	123.2	0.01	1.77	23.28	8	494	149	96	0.03	0.0	5.017	0.029	0	0	0	77
PL.22764	PL.22671	C	6 A (CWC)	7.39Y	123.2	0.00	1.77	0.40	0	3	1	95	0.00	0.0	5.022	0.005	0	0	0	1
PD.3215	PL.22764	C	65T	7.39Y	123.2	0.00	1.77	0.40	0	3	1	95	0.00	0.0	5.022	0.005	0	0	0	1
PL.22765	PD.3215	C	6 A (CWC)	7.39Y	123.2	0.00	1.77	0.40	0	3	1	95	0.00	0.0	5.044	0.022	3	1	1	1
PL.21818	PL.22671	ABC	#3/0 ACSR	7.39Y	123.2	0.03	1.79	23.14	8	492	148	96	0.08	0.0	5.107	0.090	31	9	4	76
PL.21819	PL.21818	ABC	#3/0 ACSR	7.39Y	123.2	0.03	1.82	21.70	7	461	139	96	0.07	0.0	5.202	0.094	0	0	0	72
PL.22772	PL.21819	C	6 A (CWC)	7.39Y	123.2	0.00	1.82	3.19	2	23	7	96	0.00	0.0	5.206	0.005	0	0	0	3
PD.3219	PL.22772	C	65T	7.39Y	123.2	0.00	1.82	3.19	0	23	7	96	0.00	0.0	5.206	0.005	0	0	0	3
PL.22773	PD.3219	C	6 A (CWC)	7.39Y	123.2	0.00	1.82	3.19	2	23	7	96	0.00	0.0	5.220	0.014	5	1	1	3
PL.21820	PL.22773	C	6 A (CWC)	7.39Y	123.2	0.00	1.82	2.54	2	18	5	96	0.00	0.0	5.252	0.032	18	5	2	2
PL.22596	PL.21819	ABC	#3/0 ACSR	7.39Y	123.2	0.01	1.83	20.64	7	438	132	96	0.04	0.0	5.256	0.055	9	3	1	69
PL.22597	PL.22596	ABC	#3/0 ACSR	7.39Y	123.2	0.01	1.85	11.15	4	237	71	96	0.02	0.0	5.359	0.103	11	3	1	40
PL.22774	PL.22597	A	#4 ACSR	7.39Y	123.2	0.00	1.85	1.07	1	8	2	97	0.00	0.0	5.364	0.005	0	0	0	4
PD.3220	PL.22774	A	65T	7.39Y	123.2	0.00	1.85	1.07	0	8	2	97	0.00	0.0	5.364	0.005	0	0	0	4

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Balanced Voltage Drop Report
Source: Hargett

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.22775	PD.3220	A	#4 ACSR	7.39Y	123.2	0.00	1.85	1.07	1	8	2	97	0.00	0.0	5.436	0.072	4	1	3	4
PL.22492	PL.22775	A	#1/0 ACSR	7.39Y	123.2	0.00	1.85	0.45	0	3	1	95	0.00	0.0	5.451	0.015	3	1	1	1
PL.21821	PL.22597	ABC	#3/0 ACSR	7.39Y	123.1	0.01	1.86	10.30	3	219	66	96	0.02	0.0	5.446	0.087	6	2	1	35
PL.21822	PL.21821	ABC	#3/0 ACSR	7.39Y	123.1	0.01	1.87	10.03	3	213	64	96	0.01	0.0	5.526	0.080	20	6	3	34
PL.22784	PL.21822	A	#1/0 ACSR	7.39Y	123.1	0.00	1.87	1.37	1	10	3	96	0.00	0.0	5.531	0.005	0	0	0	1
PD.3225	PL.22784	A	65T	7.39Y	123.1	0.00	1.87	1.37	0	10	3	96	0.00	0.0	5.531	0.005	0	0	0	1
PL.22785	PD.3225	A	#1/0 ACSR	7.39Y	123.1	0.00	1.87	1.37	1	10	3	96	0.00	0.0	5.579	0.049	10	3	1	1
PL.22598	PL.21822	ABC	#3/0 ACSR	7.39Y	123.1	0.01	1.88	8.63	3	183	55	96	0.01	0.0	5.613	0.087	10	3	3	30
PL.22782	PL.22598	C	#1/0 ACSR	7.39Y	123.1	0.00	1.88	1.59	1	11	3	96	0.00	0.0	5.618	0.005	0	0	0	1
PD.3224	PL.22782	C	65T	7.39Y	123.1	0.00	1.88	1.59	0	11	3	96	0.00	0.0	5.618	0.005	0	0	0	1
PL.22783	PD.3224	C	#1/0 ACSR	7.39Y	123.1	0.00	1.88	1.59	1	11	3	96	0.00	0.0	5.657	0.039	11	3	1	1
PL.22599	PL.22598	ABC	#3/0 ACSR	7.39Y	123.1	0.01	1.89	6.82	2	145	43	96	0.01	0.0	5.718	0.105	0	0	0	23
PL.22600	PL.22599	ABC	#3/0 ACSR	7.39Y	123.1	0.01	1.89	5.51	2	117	35	96	0.00	0.0	5.797	0.079	11	3	2	19
PL.22778	PL.22600	B	#2 ACSR	7.39Y	123.1	0.00	1.89	1.54	1	11	3	96	0.00	0.0	5.802	0.005	0	0	0	1
PD.3222	PL.22778	B	65T	7.39Y	123.1	0.00	1.89	1.54	0	11	3	96	0.00	0.0	5.802	0.005	0	0	0	1
PL.22779	PD.3222	B	#2 ACSR	7.39Y	123.1	0.00	1.89	1.54	1	11	3	96	0.00	0.0	5.829	0.027	11	3	1	1
PL.22685	PL.22779	B	#2 ACSR	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	5.874	0.045	0	0	0	0
PL.22686	PL.22600	ABC	#3/0 ACSR	7.39Y	123.1	0.00	1.89	4.49	1	95	29	96	0.00	0.0	5.838	0.041	0	0	0	16
PL.22687	PL.22686	ABC	#3/0 ACSR	7.39Y	123.1	0.00	1.90	4.49	1	95	29	96	0.00	0.0	5.901	0.063	11	3	2	16
PL.22776	PL.22687	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	2.08	1	15	4	97	0.00	0.0	5.905	0.005	0	0	0	3
PD.3221	PL.22776	A	65T	7.39Y	123.1	0.00	1.90	2.08	0	15	4	97	0.00	0.0	5.905	0.005	0	0	0	3
PL.22777	PD.3221	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	2.08	1	15	4	97	0.00	0.0	5.919	0.014	15	4	3	3
PL.22822	PL.22687	ABC	#3/0 ACSR	7.39Y	123.1	0.00	1.90	3.26	1	69	21	96	0.00	0.0	5.926	0.025	0	0	0	11
PD.3244-A	PL.22822	ABC	Closed	7.39Y	123.1	0.00	1.90	3.26	0	69	21	96	0.00	0.0	5.926	0.025	0	0	0	11
PD.3244-B	PD.3244-A	ABC	Closed	7.39Y	123.1	0.00	1.90	3.26	0	69	21	96	0.00	0.0	5.926	0.025	0	0	0	11
PL.22823	PD.3244-B	ABC	#3/0 ACSR	7.39Y	123.1	0.00	1.90	3.26	1	69	21	96	0.00	0.0	5.957	0.031	8	2	1	11
PL.22786	PL.22823	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	2.36	2	17	5	96	0.00	0.0	5.962	0.005	0	0	0	3
PD.3226	PL.22786	A	65T	7.39Y	123.1	0.00	1.90	2.36	0	17	5	96	0.00	0.0	5.962	0.005	0	0	0	3
PL.22787	PD.3226	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	2.36	2	17	5	96	0.00	0.0	5.990	0.028	0	0	0	3
PL.22647	PL.22787	A	#4 ACSR	7.39Y	123.1	0.01	1.91	2.23	2	16	5	95	0.00	0.0	6.063	0.073	9	3	1	2
PL.22648	PL.22647	A	#4 ACSR	7.39Y	123.1	0.00	1.91	0.91	1	6	2	95	0.00	0.0	6.141	0.078	6	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: Hargett

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.22601	PL.22787	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	0.13	0	1	0	100	0.00	0.0	6.037	0.048	1	0	1	1
PL.22602	PL.22823	ABC	#3/0 ACSR	7.39Y	123.1	0.00	1.90	2.11	1	45	13	96	0.00	0.0	6.085	0.128	0	0	0	7
PL.22649	PL.22602	ABC	#3/0 ACSR	7.39Y	123.1	0.00	1.90	0.24	0	5	2	93	0.00	0.0	6.154	0.069	5	2	1	1
PL.22650	PL.22649	ABC	#3/0 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	6.188	0.034	0	0	0	0
PD.3618-A	PL.22650	ABC	Open	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	6.188	0.034	0	0	0	0
PL.22760	PL.22602	C	#4 ACSR	7.39Y	123.1	0.00	1.90	5.60	4	40	12	96	0.00	0.0	6.089	0.005	0	0	0	6
PD.3213	PL.22760	C	65T	7.39Y	123.1	0.00	1.90	5.60	0	40	12	96	0.00	0.0	6.089	0.005	0	0	0	6
PL.22761	PD.3213	C	#4 ACSR	7.39Y	123.1	0.01	1.91	5.60	4	40	12	96	0.00	0.0	6.137	0.048	14	4	2	6
PL.22651	PL.22761	C	#4 ACSR	7.38Y	123.1	0.01	1.92	3.56	3	25	8	95	0.00	0.0	6.181	0.044	10	3	2	4
PL.22652	PL.22651	C	#4 ACSR	7.38Y	123.1	0.00	1.92	2.18	2	15	5	95	0.00	0.0	6.276	0.095	15	5	2	2
PL.22780	PL.22599	B	#2 ACSR	7.39Y	123.1	0.00	1.89	1.47	1	10	3	96	0.00	0.0	5.723	0.005	0	0	0	3
PD.3223	PL.22780	B	65T	7.39Y	123.1	0.00	1.89	1.47	0	10	3	96	0.00	0.0	5.723	0.005	0	0	0	3
PL.22781	PD.3223	B	#2 ACSR	7.39Y	123.1	0.00	1.89	1.47	1	10	3	96	0.00	0.0	5.729	0.007	10	3	3	3
PL.22810	PL.22599	C	#4 ACSR	7.39Y	123.1	0.00	1.89	2.45	2	17	5	96	0.00	0.0	5.723	0.005	0	0	0	1
PD.3238	PL.22810	C	65T	7.39Y	123.1	0.00	1.89	2.45	0	17	5	96	0.00	0.0	5.723	0.005	0	0	0	1
PL.22811	PD.3238	C	#4 ACSR	7.39Y	123.1	0.00	1.89	2.45	2	17	5	96	0.00	0.0	5.764	0.041	17	5	1	1
PL.22808	PL.22598	A	6 A (CWC)	7.39Y	123.1	0.00	1.88	2.40	2	17	5	96	0.00	0.0	5.618	0.005	0	0	0	3
PD.3237	PL.22808	A	65T	7.39Y	123.1	0.00	1.88	2.40	0	17	5	96	0.00	0.0	5.618	0.005	0	0	0	3
PL.22809	PD.3237	A	6 A (CWC)	7.39Y	123.1	0.01	1.88	2.40	2	17	5	96	0.00	0.0	5.671	0.053	0	0	1	3
PL.22688	PL.22809	A	6 A (CWC)	7.39Y	123.1	0.01	1.89	2.35	2	17	5	96	0.00	0.0	5.720	0.049	0	0	0	2
PL.22689	PL.22688	A	6 A (CWC)	7.39Y	123.1	0.01	1.90	2.35	2	17	5	96	0.00	0.0	5.791	0.070	0	0	0	2
PL.22690	PL.22689	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	2.35	2	17	5	96	0.00	0.0	5.806	0.015	17	5	2	2
PL.22478	PL.22596	A	6 A (CWC)	7.38Y	123.1	0.10	1.93	27.22	19	193	58	96	0.14	0.1	5.334	0.077	0	0	0	28
PL.22485	PL.22478	A	6 A (CWC)	7.38Y	123.1	0.02	1.94	27.22	19	192	58	96	0.02	0.0	5.346	0.012	4	1	1	28
PL.22828	PL.22485	A	6 A (CWC)	7.38Y	123.1	0.00	1.95	26.65	19	188	57	96	0.00	0.0	5.349	0.003	0	0	0	27
PD.3248	PL.22828	A	50L	7.38Y	123.1	0.00	1.95	26.65	53	188	57	96	0.00	0.0	5.349	0.003	0	0	0	27
PL.22829	PD.3248	A	6 A (CWC)	7.38Y	123.0	0.07	2.02	26.65	19	188	57	96	0.09	0.0	5.411	0.062	38	12	4	27
PL.22595	PL.22829	A	6 A (CWC)	7.38Y	122.9	0.05	2.06	21.07	15	149	45	96	0.05	0.0	5.458	0.047	3	1	1	22
PL.22683	PL.22595	A	#2 ACSR	7.38Y	122.9	0.00	2.07	1.59	1	11	3	96	0.00	0.0	5.542	0.083	0	0	0	1
PL.22684	PL.22683	A	#2 ACSR	7.38Y	122.9	0.00	2.07	1.59	1	11	3	96	0.00	0.0	5.713	0.172	11	3	1	1
PL.21823	PL.22595	A	6 A (CWC)	7.37Y	122.9	0.07	2.13	19.11	14	135	41	96	0.07	0.1	5.538	0.080	9	3	2	20

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Balanced Voltage Drop Report
Source: Hargett

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.22682	PL.21823	A	6 A (CWC)	7.37Y	122.8	0.07	2.20	17.87	13	126	38	96	0.07	0.1	5.629	0.091	0	0	0	18
PL.22680	PL.22682	A	#1/0 ACSR	7.37Y	122.8	0.00	2.21	1.58	1	11	3	96	0.00	0.0	5.663	0.034	10	3	1	2
PL.22681	PL.22680	A	#1/0 ACSR	7.37Y	122.8	0.00	2.21	0.17	0	1	0	100	0.00	0.0	5.803	0.140	1	0	1	1
PL.22594	PL.22682	A	6 A (CWC)	7.36Y	122.7	0.06	2.27	16.29	12	115	35	96	0.05	0.0	5.711	0.082	0	0	0	16
PL.21798	PL.22594	A	6 A (CWC)	7.36Y	122.7	0.04	2.30	14.89	11	105	32	96	0.03	0.0	5.769	0.058	11	3	1	14
PL.21799	PL.21798	A	6 A (CWC)	7.36Y	122.7	0.04	2.34	13.33	10	94	28	96	0.03	0.0	5.830	0.061	0	0	0	13
PL.22814	PL.21799	A	#1/0 ACSR	7.36Y	122.7	0.00	2.34	0.43	0	3	1	95	0.00	0.0	5.835	0.004	0	0	0	2
PD.3240	PL.22814	A	15T	7.36Y	122.7	0.00	2.34	0.43	0	3	1	95	0.00	0.0	5.835	0.004	0	0	0	2
PL.22815	PD.3240	A	#1/0 ACSR	7.36Y	122.7	0.00	2.34	0.43	0	3	1	95	0.00	0.0	5.975	0.140	3	1	2	2
PL.21800	PL.21799	A	6 A (CWC)	7.36Y	122.6	0.02	2.36	12.90	9	91	27	96	0.01	0.0	5.864	0.034	7	2	1	11
PL.21801	PL.21800	A	6 A (CWC)	7.36Y	122.6	0.02	2.38	11.90	8	84	25	96	0.01	0.0	5.892	0.028	0	0	1	10
PL.21802	PL.21801	A	6 A (CWC)	7.36Y	122.6	0.03	2.41	11.89	8	84	25	96	0.02	0.0	5.950	0.057	4	1	1	9
PL.21814	PL.21802	A	#4 ACSR	7.35Y	122.6	0.01	2.42	9.84	8	69	21	96	0.01	0.0	5.983	0.034	7	2	1	7
PL.21815	PL.21814	A	#4 ACSR	7.35Y	122.6	0.00	2.42	8.89	7	63	19	96	0.00	0.0	5.992	0.009	0	0	0	6
PL.22488	PL.21815	A	#4 ACSR	7.35Y	122.6	0.01	2.44	4.13	3	29	9	96	0.00	0.0	6.054	0.062	0	0	0	2
PL.21812	PL.22488	A	#4 ACSR	7.35Y	122.6	0.01	2.44	2.53	2	18	5	96	0.00	0.0	6.114	0.060	0	0	0	1
PL.21813	PL.21812	A	#4 ACSR	7.35Y	122.6	0.01	2.45	2.53	2	18	5	96	0.00	0.0	6.208	0.094	18	5	1	1
PL.22489	PL.22488	A	#1/0 ACSR	7.35Y	122.6	0.00	2.44	1.60	1	11	3	96	0.00	0.0	6.080	0.026	11	3	1	1
PL.22590	PL.21815	A	#4 ACSR	7.35Y	122.6	0.02	2.45	4.76	4	34	10	96	0.00	0.0	6.139	0.147	17	5	2	4
PL.22490	PL.22590	A	#4 ACSR	7.35Y	122.5	0.01	2.46	2.28	2	16	5	95	0.00	0.0	6.233	0.094	0	0	0	2
PL.22491	PL.22490	A	#4 ACSR	7.35Y	122.5	0.00	2.46	2.28	2	16	5	95	0.00	0.0	6.303	0.070	16	5	2	2
PL.22591	PL.22590	A	#4 ACSR	7.35Y	122.6	0.00	2.45	0.00	0	0	0	100	0.00	0.0	6.245	0.105	0	0	0	0
PL.22558	PL.22591	A	#4 ACSR	7.35Y	122.6	0.00	2.45	0.00	0	0	0	100	0.00	0.0	6.336	0.092	0	0	0	0
PL.22487	PL.21802	A	6 A (CWC)	7.36Y	122.6	0.00	2.41	1.47	1	10	3	96	0.00	0.0	6.057	0.108	10	3	1	1
PL.22486	PL.22594	A	#4 ACSR	7.36Y	122.7	0.00	2.27	1.39	1	10	3	96	0.00	0.0	5.779	0.069	10	3	2	2
PL.22479	PL.22829	A	#4 ACSR	7.38Y	123.0	0.00	2.02	0.15	0	1	0	100	0.00	0.0	5.446	0.035	1	0	1	1
PL.22824	PL.22588	A	6 A (CWC)	7.40Y	123.3	0.00	1.72	7.74	6	55	16	96	0.00	0.0	4.884	0.003	0	0	0	9
PD.3246	PL.22824	A	35L	7.40Y	123.3	0.00	1.72	7.74	22	55	16	96	0.00	0.0	4.884	0.003	0	0	0	9
PL.22825	PD.3246	A	6 A (CWC)	7.40Y	123.3	0.01	1.73	7.74	6	55	16	96	0.00	0.0	4.910	0.026	0	0	0	9
PL.22380	PL.22825	A	6 A (CWC)	7.40Y	123.3	0.00	1.73	1.77	1	13	4	96	0.00	0.0	4.978	0.068	13	4	2	2
PL.22531	PL.22825	A	6 A (CWC)	7.39Y	123.2	0.02	1.76	5.97	4	42	13	96	0.01	0.0	4.999	0.090	0	0	0	7

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Balanced Voltage Drop Report
Source: Hargett

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.22532	PL.22531	A	6 A (CWC)	7.39Y	123.2	0.02	1.78	4.28	3	30	9	96	0.00	0.0	5.107	0.108	0	0	0	5
PL.22382	PL.22532	A	6 A (CWC)	7.39Y	123.2	0.00	1.78	1.76	1	12	4	95	0.00	0.0	5.132	0.025	12	4	1	1
PL.22664	PL.22532	A	6 A (CWC)	7.39Y	123.2	0.00	1.78	2.52	2	18	5	96	0.00	0.0	5.143	0.036	3	1	1	4
PL.22665	PL.22664	A	6 A (CWC)	7.39Y	123.2	0.01	1.79	2.06	1	15	4	97	0.00	0.0	5.267	0.124	11	3	2	3
PL.22666	PL.22665	A	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.50	0	4	1	97	0.00	0.0	5.440	0.173	4	1	1	1
PL.22667	PL.22666	A	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	5.545	0.105	0	0	0	0
PL.22381	PL.22531	A	6 A (CWC)	7.39Y	123.2	0.00	1.76	1.69	1	12	4	95	0.00	0.0	5.037	0.038	12	4	2	2
PL.22766	PL.22769	A	#2 ACSR	7.41Y	123.4	0.00	1.57	2.17	1	15	5	95	0.00	0.0	4.540	0.005	0	0	0	1
PD.3216	PL.22766	A	65T	7.41Y	123.4	0.00	1.57	2.17	0	15	5	95	0.00	0.0	4.540	0.005	0	0	0	1
PL.22767	PD.3216	A	#2 ACSR	7.41Y	123.4	0.00	1.57	2.17	1	15	5	95	0.00	0.0	4.561	0.020	15	5	1	1
PL.22812	PL.22676	C	6 A (CWC)	7.42Y	123.6	0.00	1.39	2.27	2	16	5	95	0.00	0.0	4.154	0.005	0	0	0	5
PD.3239	PL.22812	C	65T	7.42Y	123.6	0.00	1.39	2.27	0	16	5	95	0.00	0.0	4.154	0.005	0	0	0	5
PL.22813	PD.3239	C	6 A (CWC)	7.42Y	123.6	0.00	1.39	2.27	2	16	5	95	0.00	0.0	4.174	0.020	1	0	1	5
PL.22677	PL.22813	C	6 A (CWC)	7.42Y	123.6	0.01	1.40	2.07	1	15	4	97	0.00	0.0	4.296	0.122	4	1	1	4
PL.21810	PL.22677	C	6 A (CWC)	7.42Y	123.6	0.00	1.40	1.57	1	11	3	96	0.00	0.0	4.361	0.064	10	3	1	3
PL.21811	PL.21810	C	6 A (CWC)	7.42Y	123.6	0.00	1.40	0.16	0	1	0	100	0.00	0.0	4.424	0.063	1	0	2	2
PL.22657	PL.22555	ABC	#2 ACSR	7.43Y	123.8	0.03	1.18	44.59	25	949	295	95	0.19	0.0	3.675	0.024	0	0	0	194
PL.22834	PL.22657	ABC	#2 ACSR	7.42Y	123.7	0.08	1.25	44.59	25	949	295	95	0.55	0.1	3.742	0.067	0	0	0	194
PD.3251	PL.22834	ABC	70L	7.42Y	123.7	0.00	1.25	44.59	64	949	294	96	0.00	0.0	3.742	0.067	0	0	0	194
PL.22835	PD.3251	ABC	#2 ACSR	7.42Y	123.7	0.03	1.28	44.59	25	949	294	96	0.22	0.0	3.769	0.027	11	3	2	194
PL.22659	PL.22835	ABC	#2 ACSR	7.41Y	123.5	0.17	1.45	44.07	25	937	291	96	1.19	0.1	3.919	0.149	0	0	0	192
PL.22560	PL.22659	ABC	#2 ACSR	7.40Y	123.4	0.17	1.63	44.07	25	936	290	96	1.23	0.1	4.073	0.154	0	0	0	192
PL.21805	PL.22560	ABC	#2 ACSR	7.40Y	123.3	0.04	1.67	40.62	23	862	267	96	0.26	0.0	4.113	0.039	16	5	2	182
PL.21806	PL.21805	ABC	#2 ACSR	7.39Y	123.2	0.12	1.79	39.86	23	845	262	96	0.80	0.1	4.235	0.123	0	0	0	180
PL.21803	PL.21806	ABC	#2 ACSR	7.39Y	123.1	0.08	1.87	39.86	23	844	262	96	0.50	0.1	4.312	0.077	6	2	1	180
PL.21804	PL.21803	ABC	#2 ACSR	7.39Y	123.1	0.04	1.91	39.59	23	838	260	96	0.26	0.0	4.352	0.040	3	1	2	179
PL.21809	PL.21804	ABC	#1/0 ACSR	7.38Y	123.0	0.06	1.97	39.47	17	835	259	96	0.35	0.0	4.436	0.084	8	2	1	177
PL.22836	PL.21809	ABC	#1/0 ACSR	7.38Y	122.9	0.08	2.05	39.10	17	827	256	96	0.47	0.1	4.552	0.116	0	0	0	176
PL.22837	PL.22836	ABC	#1/0 ACSR	7.37Y	122.9	0.07	2.12	39.10	17	827	256	96	0.38	0.0	4.646	0.093	0	0	0	176
PL.22506	PL.22837	ABC	#1/0 ACSR	7.37Y	122.8	0.12	2.24	39.09	17	826	256	96	0.69	0.1	4.815	0.170	0	0	0	175
PL.22561	PL.22506	ABC	#1/0 ACSR	7.36Y	122.6	0.13	2.37	39.09	17	825	255	96	0.72	0.1	4.992	0.177	0	0	0	175

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: Hargett

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.22562	PL.22561	ABC	#1/0 ACSR	7.35Y	122.5	0.09	2.46	39.09	17	825	254	96	0.51	0.1	5.118	0.126	0	0	0	175
PL.22563	PL.22562	ABC	#1/0 ACSR	7.35Y	122.4	0.10	2.55	39.09	17	824	254	96	0.54	0.1	5.251	0.133	0	0	0	175
PL.22507	PL.22563	ABC	#1/0 ACSR	7.34Y	122.4	0.05	2.60	18.72	8	395	120	96	0.14	0.0	5.397	0.146	0	0	0	81
PL.22579	PL.22507	ABC	#1/0 ACSR	7.34Y	122.4	0.03	2.63	18.57	8	391	119	96	0.07	0.0	5.472	0.075	2	1	1	80
PL.22707	PL.22579	ABC	#1/0 ACSR	7.34Y	122.4	0.01	2.64	15.29	7	322	98	96	0.03	0.0	5.514	0.042	2	1	1	68
PL.22728	PL.22707	ABC	#1/0 ACSR	7.34Y	122.3	0.04	2.68	15.18	7	320	97	96	0.08	0.0	5.653	0.139	7	2	1	67
PL.22729	PL.22728	ABC	#1/0 ACSR	7.34Y	122.3	0.02	2.70	14.86	6	313	95	96	0.05	0.0	5.739	0.086	8	2	1	66
PL.22730	PL.22729	ABC	#1/0 ACSR	7.34Y	122.3	0.02	2.72	14.48	6	305	92	96	0.05	0.0	5.830	0.092	0	0	0	65
PL.22582	PL.22730	ABC	#1/0 ACSR	7.34Y	122.3	0.02	2.74	13.77	6	290	88	96	0.03	0.0	5.894	0.064	14	4	3	61
PL.22796	PL.22582	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.00	0	0	0	100	0.00	0.0	5.899	0.005	0	0	0	0
PD.3231	PL.22796	A	30T	7.34Y	122.3	0.00	2.74	0.00	0	0	0	100	0.00	0.0	5.899	0.005	0	0	0	0
PL.22797	PD.3231	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.00	0	0	0	100	0.00	0.0	5.941	0.043	0	0	0	0
PL.22733	PL.22582	ABC	#1/0 ACSR	7.34Y	122.3	0.01	2.75	13.09	6	276	83	96	0.02	0.0	5.930	0.036	1	0	1	58
PL.22734	PL.22733	ABC	#1/0 ACSR	7.33Y	122.2	0.03	2.78	13.05	6	275	83	96	0.05	0.0	6.045	0.114	0	0	0	57
PL.22517	PL.22734	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.79	12.09	5	255	77	96	0.03	0.0	6.111	0.067	0	0	0	53
PL.22519	PL.22517	ABC	#1/0 ACSR	7.33Y	122.2	0.03	2.82	12.08	5	254	77	96	0.06	0.0	6.258	0.146	0	0	0	52
PL.22580	PL.22519	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.84	12.08	5	254	77	96	0.03	0.0	6.322	0.065	0	0	1	52
PL.22830	PL.22580	A	6 A (CWC)	7.33Y	122.2	0.00	2.84	0.95	1	7	2	96	0.00	0.0	6.382	0.060	0	0	0	3
PD.3249	PL.22830	A	35L	7.33Y	122.2	0.00	2.84	0.95	3	7	2	96	0.00	0.0	6.382	0.060	0	0	0	3
PL.22831	PD.3249	A	6 A (CWC)	7.33Y	122.2	0.00	2.84	0.95	1	7	2	96	0.00	0.0	6.451	0.069	5	1	2	3
PL.22735	PL.22831	A	6 A (CWC)	7.33Y	122.2	0.00	2.84	0.26	0	2	1	89	0.00	0.0	6.639	0.189	0	0	0	1
PL.21997	PL.22735	A	6 A (CWC)	7.33Y	122.2	0.00	2.84	0.26	0	2	1	89	0.00	0.0	6.722	0.083	0	0	0	1
PL.21998	PL.21997	A	6 A (CWC)	7.33Y	122.2	0.00	2.85	0.26	0	2	1	89	0.00	0.0	6.830	0.108	0	0	0	1
PL.22400	PL.21998	A	6 A (CWC)	7.33Y	122.2	0.00	2.85	0.00	0	0	0	100	0.00	0.0	6.925	0.095	0	0	0	0
PL.22401	PL.21998	A	6 A (CWC)	7.33Y	122.2	0.00	2.85	0.26	0	2	1	89	0.00	0.0	7.002	0.172	0	0	0	1
PL.22534	PL.22401	A	6 A (CWC)	7.33Y	122.2	0.00	2.85	0.26	0	2	1	89	0.00	0.0	7.092	0.090	0	0	0	1
PL.22402	PL.22534	A	#4 ACSR	7.33Y	122.1	0.00	2.85	0.26	0	2	1	89	0.00	0.0	7.200	0.108	0	0	0	1
PL.22403	PL.22402	A	#4 ACSR	7.33Y	122.1	0.00	2.85	0.26	0	2	1	89	0.00	0.0	7.277	0.077	2	1	1	1
PL.22581	PL.22580	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.84	11.74	5	247	75	96	0.01	0.0	6.349	0.027	0	0	0	48
PL.22832	PL.22581	C	8 A (CWC)	7.33Y	122.2	0.01	2.85	35.21	35	247	75	96	0.01	0.0	6.352	0.003	0	0	0	48
PD.3250	PL.22832	C	50L	7.33Y	122.2	0.00	2.85	35.21	70	247	75	96	0.00	0.0	6.352	0.003	0	0	0	48

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Balanced Voltage Drop Report
Source: Hargett

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.22833	PD.3250	C	8 A (CWC)	7.32Y	122.0	0.17	3.02	35.21	35	247	75	96	0.33	0.1	6.423	0.072	5	2	2	48
PL.22721	PL.22833	C	8 A (CWC)	7.31Y	121.8	0.18	3.20	34.44	34	241	73	96	0.35	0.1	6.503	0.080	0	0	0	46
PL.22398	PL.22721	C	#4 ACSR	7.31Y	121.8	0.00	3.20	0.61	0	4	1	97	0.00	0.0	6.571	0.067	4	1	1	1
PL.22399	PL.22398	C	#1/0 ACSR	7.31Y	121.8	0.00	3.20	0.00	0	0	0	100	0.00	0.0	6.591	0.020	0	0	0	0
PL.22718	PL.22721	C	6 A (CWC)	7.30Y	121.7	0.13	3.33	33.83	24	237	72	96	0.23	0.1	6.588	0.084	10	3	1	45
PL.22719	PL.22718	C	6 A (CWC)	7.29Y	121.6	0.09	3.42	32.37	23	226	68	96	0.15	0.1	6.648	0.061	7	2	1	44
PL.22720	PL.22719	C	6 A (CWC)	7.29Y	121.5	0.09	3.51	31.37	22	219	66	96	0.15	0.1	6.711	0.063	0	0	0	43
PL.22404	PL.22720	C	#4 ACSR	7.29Y	121.5	0.00	3.51	1.31	1	9	3	95	0.00	0.0	6.782	0.071	9	3	1	1
PL.22576	PL.22720	C	6 A (CWC)	7.28Y	121.4	0.11	3.62	30.06	21	210	63	96	0.17	0.1	6.794	0.083	10	3	1	42
PL.22405	PL.22576	C	6 A (CWC)	7.28Y	121.4	0.01	3.63	1.82	1	13	4	96	0.00	0.0	6.864	0.070	0	0	0	2
PL.22406	PL.22405	C	6 A (CWC)	7.28Y	121.4	0.00	3.63	1.82	1	13	4	96	0.00	0.0	6.902	0.039	0	0	0	2
PL.22520	PL.22406	C	6 A (CWC)	7.28Y	121.4	0.00	3.63	0.59	0	4	1	97	0.00	0.0	6.917	0.015	4	1	1	1
PL.22407	PL.22406	C	6 A (CWC)	7.28Y	121.4	0.00	3.63	1.23	1	9	3	95	0.00	0.0	7.003	0.101	9	3	1	1
PL.22716	PL.22576	C	6 A (CWC)	7.28Y	121.3	0.03	3.65	26.75	19	187	56	96	0.04	0.0	6.819	0.025	7	2	1	39
PL.22717	PL.22716	C	6 A (CWC)	7.28Y	121.3	0.07	3.72	25.74	18	179	54	96	0.10	0.1	6.883	0.064	15	5	2	38
PL.22712	PL.22717	C	6 A (CWC)	7.27Y	121.2	0.09	3.81	23.59	17	164	50	96	0.11	0.1	6.964	0.082	2	1	1	36
PL.22713	PL.22712	C	6 A (CWC)	7.26Y	121.1	0.13	3.94	23.32	17	162	49	96	0.15	0.1	7.084	0.119	6	2	1	35
PL.22714	PL.22713	C	6 A (CWC)	7.26Y	121.0	0.05	3.99	22.46	16	156	47	96	0.06	0.0	7.138	0.054	12	3	1	34
PL.22715	PL.22714	C	6 A (CWC)	7.26Y	121.0	0.04	4.03	20.80	15	145	44	96	0.05	0.0	7.183	0.045	0	0	0	33
PL.22412	PL.22715	C	6 A (CWC)	7.26Y	120.9	0.02	4.05	4.09	3	28	9	95	0.00	0.0	7.269	0.086	0	0	0	8
PL.22011	PL.22412	C	6 A (CWC)	7.26Y	120.9	0.02	4.07	4.09	3	28	9	95	0.00	0.0	7.379	0.110	0	0	0	8
PL.22724	PL.22011	C	6 A (CWC)	7.25Y	120.9	0.02	4.09	4.09	3	28	9	95	0.00	0.0	7.469	0.090	2	1	1	8
PL.22725	PL.22724	C	6 A (CWC)	7.25Y	120.9	0.03	4.12	3.79	3	26	8	96	0.01	0.0	7.639	0.170	0	0	0	7
PL.22521	PL.22725	C	6 A (CWC)	7.25Y	120.9	0.01	4.13	3.20	2	22	7	95	0.00	0.0	7.705	0.066	0	0	0	6
PL.22522	PL.22521	C	6 A (CWC)	7.25Y	120.9	0.01	4.14	3.19	2	22	7	95	0.00	0.0	7.802	0.097	0	0	0	5
PL.22012	PL.22522	C	6 A (CWC)	7.25Y	120.8	0.01	4.16	3.19	2	22	7	95	0.00	0.0	7.904	0.102	0	0	0	5
PL.21999	PL.22012	C	6 A (CWC)	7.25Y	120.8	0.01	4.17	3.19	2	22	7	95	0.00	0.0	7.992	0.089	0	0	0	5
PL.22423	PL.21999	C	6 A (CWC)	7.25Y	120.8	0.01	4.18	1.51	1	11	3	96	0.00	0.0	8.113	0.120	0	0	0	4
PL.22000	PL.22423	C	6 A (CWC)	7.25Y	120.8	0.01	4.18	1.51	1	11	3	96	0.00	0.0	8.217	0.105	0	0	0	4
PL.22524	PL.22000	C	6 A (CWC)	7.25Y	120.8	0.00	4.18	0.00	0	0	0	100	0.00	0.0	8.275	0.058	0	0	0	1
PL.22726	PL.22524	C	#1/0 ACSR	7.25Y	120.8	0.00	4.18	0.00	0	0	0	100	0.00	0.0	8.389	0.114	0	0	0	1

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Balanced Voltage Drop Report
Source: Hargett

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.22727	PL.22726	C	#1/0 ACSR	7.25Y	120.8	0.00	4.18	0.00	0	0	0	100	0.00	0.0	8.485	0.095	0	0	1	1
PL.22424	PL.22000	C	#4 ACSR	7.25Y	120.8	0.00	4.19	1.51	1	11	3	96	0.00	0.0	8.277	0.059	0	0	0	3
PL.22722	PL.22424	C	#4 ACSR	7.25Y	120.8	0.00	4.19	0.38	0	3	1	95	0.00	0.0	8.327	0.050	0	0	1	2
PL.22723	PL.22722	C	#4 ACSR	7.25Y	120.8	0.00	4.19	0.38	0	3	1	95	0.00	0.0	8.394	0.068	3	1	1	1
PL.22525	PL.22424	C	#4 ACSR	7.25Y	120.8	0.00	4.19	1.14	1	8	2	97	0.00	0.0	8.303	0.027	8	2	1	1
PL.22523	PL.21999	C	6 A (CWC)	7.25Y	120.8	0.01	4.17	1.68	1	12	3	97	0.00	0.0	8.064	0.071	0	0	0	1
PL.22425	PL.22523	C	6 A (CWC)	7.25Y	120.8	0.01	4.18	1.68	1	12	3	97	0.00	0.0	8.225	0.161	12	3	1	1
PL.22422	PL.22521	C	6 A (CWC)	7.25Y	120.9	0.00	4.13	0.01	0	0	0	100	0.00	0.0	7.764	0.060	0	0	1	1
PL.22421	PL.22725	C	#1/0 ACSR	7.25Y	120.9	0.00	4.12	0.59	0	4	1	97	0.00	0.0	7.768	0.129	4	1	1	1
PL.22792	PL.22715	C	#4 ACSR	7.26Y	121.0	0.00	4.04	16.36	13	114	34	96	0.00	0.0	7.187	0.004	0	0	0	24
PD.3229	PL.22792	C	20T	7.26Y	121.0	0.00	4.04	16.36	0	114	34	96	0.00	0.0	7.187	0.004	0	0	0	24
PL.22793	PD.3229	C	#4 ACSR	7.26Y	120.9	0.02	4.06	16.36	13	114	34	96	0.02	0.0	7.219	0.032	0	0	0	24
PL.22408	PL.22793	C	6 A (CWC)	7.26Y	120.9	0.00	4.06	0.00	0	0	0	100	0.00	0.0	7.318	0.099	0	0	0	0
PL.22526	PL.22793	C	#4 ACSR	7.25Y	120.9	0.05	4.12	16.36	13	114	34	96	0.05	0.0	7.293	0.074	0	0	0	24
PL.22410	PL.22526	C	6 A (CWC)	7.25Y	120.9	0.00	4.12	0.45	0	3	1	95	0.00	0.0	7.396	0.103	3	1	2	2
PL.22409	PL.22526	C	#1/0 ACSR	7.25Y	120.9	0.00	4.12	1.60	1	11	3	96	0.00	0.0	7.362	0.069	11	3	1	1
PL.22527	PL.22526	C	#4 ACSR	7.25Y	120.8	0.08	4.20	14.31	11	99	30	96	0.06	0.1	7.417	0.124	0	0	0	21
PL.22010	PL.22527	C	#4 ACSR	7.25Y	120.8	0.05	4.24	14.31	11	99	30	96	0.04	0.0	7.491	0.074	0	0	0	21
PL.22001	PL.22010	C	#4 ACSR	7.24Y	120.7	0.10	4.34	14.31	11	99	30	96	0.07	0.1	7.641	0.150	0	0	0	21
PL.22528	PL.22001	C	#4 ACSR	7.23Y	120.6	0.08	4.42	11.59	9	80	24	96	0.05	0.1	7.793	0.151	0	0	0	19
PL.22567	PL.22528	C	#4 ACSR	7.23Y	120.5	0.03	4.45	8.82	7	61	18	96	0.01	0.0	7.886	0.094	11	3	1	16
PL.22568	PL.22567	C	#4 ACSR	7.23Y	120.5	0.04	4.49	7.19	6	50	15	96	0.01	0.0	8.007	0.121	4	1	2	15
PL.22708	PL.22568	C	#4 ACSR	7.23Y	120.5	0.02	4.51	6.08	5	42	13	96	0.00	0.0	8.079	0.071	11	3	2	12
PL.22709	PL.22708	C	#4 ACSR	7.23Y	120.5	0.01	4.52	4.48	3	31	9	96	0.00	0.0	8.152	0.074	8	2	2	10
PL.22018	PL.22709	C	#4 ACSR	7.23Y	120.5	0.01	4.53	1.41	1	10	3	96	0.00	0.0	8.285	0.133	0	0	0	6
PL.22002	PL.22018	C	#4 ACSR	7.23Y	120.5	0.01	4.54	1.41	1	10	3	96	0.00	0.0	8.461	0.176	0	0	0	6
PL.22003	PL.22002	C	#4 ACSR	7.23Y	120.5	0.01	4.54	1.41	1	10	3	96	0.00	0.0	8.567	0.106	0	0	0	6
PL.22529	PL.22003	C	#4 ACSR	7.23Y	120.5	0.00	4.55	1.41	1	10	3	96	0.00	0.0	8.628	0.060	0	0	0	6
PL.22701	PL.22529	C	6 A (CWC)	7.23Y	120.4	0.01	4.55	1.26	1	9	3	95	0.00	0.0	8.754	0.127	2	1	2	3
PL.22702	PL.22701	C	6 A (CWC)	7.23Y	120.4	0.00	4.56	0.96	1	7	2	96	0.00	0.0	8.838	0.084	0	0	0	1
PL.22419	PL.22702	C	#4 ACSR	7.23Y	120.4	0.00	4.56	0.96	1	7	2	96	0.00	0.0	8.988	0.150	7	2	1	1

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Balanced Voltage Drop Report
Source: Hargett

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.22699	PL.22529	C	6 A (CWC)	7.23Y	120.5	0.00	4.55	0.15	0	1	0	100	0.00	0.0	8.671	0.043	0	0	0	3
PL.22700	PL.22699	C	6 A (CWC)	7.23Y	120.4	0.00	4.55	0.15	0	1	0	100	0.00	0.0	8.926	0.256	0	0	0	3
PL.22004	PL.22700	C	6 A (CWC)	7.23Y	120.4	0.00	4.55	0.15	0	1	0	100	0.00	0.0	9.097	0.170	0	0	0	3
PL.22005	PL.22004	C	6 A (CWC)	7.23Y	120.4	0.00	4.55	0.15	0	1	0	100	0.00	0.0	9.178	0.081	1	0	1	3
PL.22695	PL.22005	C	#4 ACSR	7.23Y	120.4	0.00	4.55	0.02	0	0	0	100	0.00	0.0	9.343	0.165	0	0	1	2
PL.22696	PL.22695	C	#4 ACSR	7.23Y	120.4	0.00	4.55	0.00	0	0	0	100	0.00	0.0	9.442	0.100	0	0	1	1
PL.22417	PL.22709	C	#4 ACSR	7.23Y	120.5	0.00	4.52	1.90	1	13	4	96	0.00	0.0	8.163	0.011	13	4	2	2
PL.22416	PL.22568	C	#4 ACSR	7.23Y	120.5	0.00	4.49	0.57	0	4	1	97	0.00	0.0	8.083	0.075	4	1	1	1
PL.66181	PL.22568	C	#1/0 ACSR	7.23Y	120.5	0.00	4.49	0.00	0	0	0	100	0.00	0.0	8.031	0.023	0	0	0	0
PL.66182	PL.66181	C	#1/0 ACSR	7.23Y	120.5	0.00	4.49	0.00	0	0	0	100	0.00	0.0	8.074	0.043	0	0	0	0
PL.66183	PL.66182	C	#1/0 ACSR	7.23Y	120.5	0.00	4.49	0.00	0	0	0	100	0.00	0.0	8.093	0.019	0	0	0	0
PL.66184	PL.66183	C	#1/0 ACSR	7.23Y	120.5	0.00	4.49	0.00	0	0	0	100	0.00	0.0	8.162	0.069	0	0	0	0
PL.22415	PL.22567	C	#4 ACSR	7.23Y	120.5	0.00	4.45	0.00	0	0	0	100	0.00	0.0	7.959	0.072	0	0	0	0
PL.22414	PL.22528	C	6 A (CWC)	7.23Y	120.6	0.01	4.43	2.77	2	19	6	95	0.00	0.0	7.869	0.076	0	0	0	3
PL.22710	PL.22414	C	6 A (CWC)	7.23Y	120.6	0.01	4.43	1.51	1	10	3	96	0.00	0.0	7.982	0.113	3	1	1	2
PL.22711	PL.22710	C	6 A (CWC)	7.23Y	120.6	0.00	4.44	1.08	1	7	2	96	0.00	0.0	8.170	0.189	7	2	1	1
PL.22420	PL.22414	C	#4 ACSR	7.23Y	120.6	0.00	4.43	1.26	1	9	3	95	0.00	0.0	7.908	0.039	9	3	1	1
PL.22413	PL.22001	C	6 A (CWC)	7.24Y	120.7	0.00	4.34	2.73	2	19	6	95	0.00	0.0	7.708	0.067	19	6	2	2
PL.22411	PL.22715	C	#1/0 ACSR	7.26Y	121.0	0.00	4.03	0.35	0	2	1	89	0.00	0.0	7.233	0.051	2	1	1	1
PL.22798	PL.22517	C	#1/0 ACSR	7.33Y	122.2	0.00	2.79	0.04	0	0	0	100	0.00	0.0	6.116	0.004	0	0	0	1
PD.3232	PL.22798	C	30T	7.33Y	122.2	0.00	2.79	0.04	0	0	0	100	0.00	0.0	6.116	0.004	0	0	0	1
PL.22799	PD.3232	C	#1/0 ACSR	7.33Y	122.2	0.00	2.79	0.04	0	0	0	100	0.00	0.0	6.185	0.069	0	0	1	1
PL.22395	PL.22734	A	#2 ACSR	7.33Y	122.2	0.00	2.78	1.78	1	12	4	95	0.00	0.0	6.070	0.026	2	1	1	3
PL.22800	PL.22395	A	#2 ACSR	7.33Y	122.2	0.00	2.78	1.48	1	10	3	96	0.00	0.0	6.075	0.005	0	0	0	2
PD.3233	PL.22800	A	30T	7.33Y	122.2	0.00	2.78	1.48	0	10	3	96	0.00	0.0	6.075	0.005	0	0	0	2
PL.22801	PD.3233	A	#2 ACSR	7.33Y	122.2	0.01	2.79	1.48	1	10	3	96	0.00	0.0	6.244	0.169	0	0	0	2
PL.21995	PL.22801	A	#2 ACSR	7.33Y	122.2	0.01	2.79	1.48	1	10	3	96	0.00	0.0	6.352	0.108	0	0	0	2
PL.21996	PL.21995	A	#2 ACSR	7.33Y	122.2	0.00	2.79	1.48	1	10	3	96	0.00	0.0	6.418	0.066	0	0	0	2
PL.22518	PL.21996	A	#2 ACSR	7.33Y	122.2	0.00	2.79	0.19	0	1	0	100	0.00	0.0	6.504	0.086	1	0	1	1
PL.22396	PL.21996	A	#4 ACSR	7.33Y	122.2	0.00	2.80	1.29	1	9	3	95	0.00	0.0	6.504	0.086	9	3	1	1
PL.22802	PL.22734	C	#2 ACSR	7.33Y	122.2	0.00	2.78	1.11	1	8	2	97	0.00	0.0	6.049	0.005	0	0	0	1

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Balanced Voltage Drop Report
Source: Hargett

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.3234	PL.22802	C	30T	7.33Y	122.2	0.00	2.78	1.11	0	8	2	97	0.00	0.0	6.049	0.005	0	0	0	1
PL.22803	PD.3234	C	#2 ACSR	7.33Y	122.2	0.00	2.78	1.11	1	8	2	97	0.00	0.0	6.107	0.058	8	2	1	1
PL.22731	PL.22730	A	#2 ACSR	7.34Y	122.3	0.00	2.73	2.12	1	15	4	97	0.00	0.0	5.853	0.023	0	0	1	4
PL.22732	PL.22731	A	#2 ACSR	7.34Y	122.3	0.00	2.73	2.05	1	14	4	96	0.00	0.0	5.879	0.026	0	0	0	3
PL.22794	PL.22732	A	6 A (CWC)	7.34Y	122.3	0.00	2.73	2.05	1	14	4	96	0.00	0.0	5.884	0.005	0	0	0	3
PD.3230	PL.22794	A	30T	7.34Y	122.3	0.00	2.73	2.05	0	14	4	96	0.00	0.0	5.884	0.005	0	0	0	3
PL.22795	PD.3230	A	6 A (CWC)	7.34Y	122.3	0.01	2.74	2.05	1	14	4	96	0.00	0.0	5.993	0.109	0	0	0	3
PL.22583	PL.22795	A	6 A (CWC)	7.34Y	122.3	0.01	2.75	2.05	1	14	4	96	0.00	0.0	6.115	0.122	10	3	1	3
PL.22393	PL.22583	A	6 A (CWC)	7.34Y	122.3	0.00	2.75	0.57	0	4	1	97	0.00	0.0	6.245	0.130	4	1	1	1
PL.22584	PL.22583	A	6 A (CWC)	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	6.263	0.148	0	0	0	1
PL.21992	PL.22584	A	6 A (CWC)	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	6.450	0.187	0	0	0	1
PL.21993	PL.21992	A	6 A (CWC)	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	6.534	0.084	0	0	0	1
PL.22006	PL.21993	A	6 A (CWC)	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	6.658	0.124	0	0	0	1
PL.22394	PL.22006	A	6 A (CWC)	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	6.779	0.121	0	0	0	0
PL.22007	PL.22394	A	6 A (CWC)	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	6.856	0.077	0	0	0	0
PL.21994	PL.22007	A	6 A (CWC)	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	6.980	0.124	0	0	0	0
PL.22516	PL.22006	A	6 A (CWC)	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	6.769	0.111	0	0	1	1
PL.22388	PL.22579	B	#4 ACSR	7.34Y	122.3	0.04	2.66	9.56	7	67	20	96	0.02	0.0	5.570	0.098	14	4	2	11
PL.22790	PL.22388	B	6 A (CWC)	7.34Y	122.3	0.00	2.67	6.31	5	44	13	96	0.00	0.0	5.578	0.008	0	0	0	8
PD.3228	PL.22790	B	30T	7.34Y	122.3	0.00	2.67	6.31	0	44	13	96	0.00	0.0	5.578	0.008	0	0	0	8
PL.22791	PD.3228	B	6 A (CWC)	7.34Y	122.3	0.02	2.69	6.31	5	44	13	96	0.01	0.0	5.652	0.074	0	0	0	8
PL.22514	PL.22791	B	6 A (CWC)	7.34Y	122.3	0.00	2.69	4.65	3	33	10	96	0.00	0.0	5.668	0.016	3	1	1	7
PL.22575	PL.22514	B	6 A (CWC)	7.34Y	122.3	0.02	2.71	4.20	3	29	9	96	0.00	0.0	5.788	0.120	7	2	1	6
PL.22392	PL.22575	B	6 A (CWC)	7.34Y	122.3	0.02	2.73	2.57	2	18	5	96	0.00	0.0	5.928	0.140	0	0	0	3
PL.22387	PL.22392	B	#4 ACSR	7.34Y	122.3	0.01	2.73	2.00	2	14	4	96	0.00	0.0	6.056	0.128	14	4	2	2
PL.22515	PL.22392	B	6 A (CWC)	7.34Y	122.3	0.00	2.73	0.57	0	4	1	97	0.00	0.0	6.028	0.100	0	0	0	1
PL.21991	PL.22515	B	6 A (CWC)	7.34Y	122.3	0.00	2.73	0.57	0	4	1	97	0.00	0.0	6.122	0.094	4	1	1	1
PL.22705	PL.22575	B	6 A (CWC)	7.34Y	122.3	0.00	2.71	0.59	0	4	1	97	0.00	0.0	5.873	0.086	0	0	0	2
PL.22706	PL.22705	B	6 A (CWC)	7.34Y	122.3	0.00	2.72	0.59	0	4	1	97	0.00	0.0	6.002	0.129	0	0	0	2
PL.22703	PL.22706	B	6 A (CWC)	7.34Y	122.3	0.00	2.72	0.59	0	4	1	97	0.00	0.0	6.113	0.110	0	0	1	2
PL.22704	PL.22703	B	6 A (CWC)	7.34Y	122.3	0.00	2.72	0.54	0	4	1	97	0.00	0.0	6.185	0.073	4	1	1	1

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Balanced Voltage Drop Report
Source: Hargett

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.22391	PL.22791	B	#1/0 ACSR	7.34Y	122.3	0.00	2.69	1.66	1	12	4	95	0.00	0.0	5.683	0.032	12	4	1	1
PL.22577	PL.22388	B	6 A (CWC)	7.34Y	122.3	0.00	2.67	1.26	1	9	3	95	0.00	0.0	5.640	0.070	0	0	0	1
PL.22390	PL.22577	B	#4 ACSR	7.34Y	122.3	0.00	2.67	1.26	1	9	3	95	0.00	0.0	5.717	0.078	9	3	1	1
PL.22578	PL.22577	B	6 A (CWC)	7.34Y	122.3	0.00	2.67	0.00	0	0	0	100	0.00	0.0	5.686	0.046	0	0	0	0
PL.22788	PL.22507	A	#4 ACSR	7.34Y	122.4	0.00	2.60	0.47	0	3	1	95	0.00	0.0	5.401	0.005	0	0	0	1
PD.3227	PL.22788	A	30T	7.34Y	122.4	0.00	2.60	0.47	0	3	1	95	0.00	0.0	5.401	0.005	0	0	0	1
PL.22789	PD.3227	A	#4 ACSR	7.34Y	122.4	0.00	2.60	0.47	0	3	1	95	0.00	0.0	5.517	0.116	3	1	1	1
PL.22389	PL.22507	A	#4 ACSR	7.34Y	122.4	0.00	2.60	0.00	0	0	0	100	0.00	0.0	5.440	0.043	0	0	0	0
PL.22383	PL.22563	B	6 A (CWC)	7.33Y	122.1	0.33	2.89	61.10	44	429	134	95	1.08	0.3	5.370	0.119	0	0	0	94
PL.22564	PL.22383	B	6 A (CWC)	7.30Y	121.7	0.37	3.25	61.10	44	428	133	95	1.18	0.3	5.500	0.130	0	0	1	94
PL.22385	PL.22564	B	6 A (CWC)	7.30Y	121.7	0.01	3.26	61.10	44	426	132	96	0.02	0.0	5.503	0.003	0	0	0	93
PD.3245	PL.22385	B	100L	7.30Y	121.7	0.00	3.26	61.10	61	426	132	96	0.00	0.0	5.503	0.003	0	0	0	93
PL.22508	PD.3245	B	6 A (CWC)	7.27Y	121.2	0.52	3.78	61.10	44	426	132	96	1.68	0.4	5.687	0.185	0	0	0	93
PL.21985	PL.22508	B	6 A (CWC)	7.25Y	120.9	0.36	4.14	61.10	44	425	131	96	1.17	0.3	5.816	0.128	0	0	0	93
PL.22008	PL.21985	B	6 A (CWC)	7.24Y	120.7	0.19	4.33	61.10	44	423	130	96	0.61	0.1	5.883	0.067	0	0	0	93
PL.21986	PL.22008	B	6 A (CWC)	7.21Y	120.2	0.44	4.77	61.10	44	423	130	96	1.40	0.3	6.037	0.154	0	0	0	93
PL.22573	PL.21986	B	6 A (CWC)	7.19Y	119.8	0.46	5.22	61.10	44	421	129	96	1.47	0.3	6.200	0.162	1	0	1	93
PL.22426	PL.22573	B	#4 ACSR	7.19Y	119.8	0.01	5.24	6.16	5	42	13	96	0.00	0.0	6.246	0.046	0	0	0	5
PL.22635	PL.22426	B	#4 ACSR	7.18Y	119.7	0.01	5.25	5.05	4	35	10	96	0.00	0.0	6.328	0.082	18	6	2	4
PL.22636	PL.22635	B	#4 ACSR	7.18Y	119.7	0.00	5.26	2.38	2	16	5	95	0.00	0.0	6.377	0.049	2	1	1	2
PL.22428	PL.22636	B	#2 ACSR	7.18Y	119.7	0.00	5.26	2.04	1	14	4	96	0.00	0.0	6.491	0.114	14	4	1	1
PL.22427	PL.22426	B	#4 ACSR	7.19Y	119.8	0.00	5.24	1.11	1	8	2	97	0.00	0.0	6.315	0.070	8	2	1	1
PL.22574	PL.22573	B	6 A (CWC)	7.17Y	119.5	0.31	5.54	54.80	39	377	115	96	0.90	0.2	6.323	0.124	0	0	0	87
PL.22632	PL.22574	B	6 A (CWC)	7.14Y	119.0	0.47	6.01	54.80	39	376	115	96	1.36	0.4	6.513	0.190	7	2	1	87
REG58	PL.22632	B	76.2 KVA	7.52Y	125.3	-6.26	-0.25	53.83	54	368	112	96	percent Boost= 0.00			Tap= 0.0				86
PL.22633	REG58	B	6 A (CWC)	7.51Y	125.2	0.06	-0.19	51.14	37	368	112	96	0.16	0.0	6.538	0.025	0	0	0	86
PL.22634	PL.22633	B	6 A (CWC)	7.49Y	124.9	0.32	0.13	51.14	37	368	112	96	0.86	0.2	6.673	0.135	0	0	0	86
PL.21987	PL.22634	B	6 A (CWC)	7.48Y	124.7	0.20	0.33	51.14	37	367	111	96	0.55	0.2	6.760	0.087	0	0	0	86
PL.22806	PL.21987	B	6 A (CWC)	7.48Y	124.7	0.00	0.33	13.86	10	99	30	96	0.00	0.0	6.764	0.004	0	0	0	22
PD.3236	PL.22806	B	30T	7.48Y	124.7	0.00	0.33	13.86	0	99	30	96	0.00	0.0	6.764	0.004	0	0	0	22
PL.22807	PD.3236	B	6 A (CWC)	7.48Y	124.6	0.06	0.40	13.86	10	99	30	96	0.05	0.0	6.864	0.100	0	0	0	22

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Balanced Voltage Drop Report
Source: Hargett

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.22009	PL.22807	B	6 A (CWC)	7.47Y	124.5	0.08	0.48	13.86	10	99	30	96	0.06	0.1	6.986	0.121	0	0	0	22
PL.21988	PL.22009	B	6 A (CWC)	7.47Y	124.5	0.05	0.52	13.86	10	99	30	96	0.04	0.0	7.064	0.078	0	0	0	22
PL.21989	PL.21988	B	6 A (CWC)	7.46Y	124.4	0.08	0.60	13.86	10	99	30	96	0.06	0.1	7.182	0.118	0	0	0	22
PL.22429	PL.21989	B	6 A (CWC)	7.46Y	124.4	0.00	0.60	1.98	1	14	4	96	0.00	0.0	7.270	0.088	14	4	3	3
PL.22015	PL.21989	B	6 A (CWC)	7.46Y	124.3	0.07	0.67	11.89	8	85	26	96	0.04	0.0	7.305	0.124	5	2	2	19
PL.22693	PL.22015	B	6 A (CWC)	7.46Y	124.3	0.00	0.67	0.01	0	0	0	100	0.00	0.0	7.395	0.089	0	0	1	1
PL.22694	PL.22693	B	6 A (CWC)	7.46Y	124.3	0.00	0.67	0.00	0	0	0	100	0.00	0.0	7.535	0.140	0	0	0	0
PL.22016	PL.22015	B	6 A (CWC)	7.46Y	124.3	0.05	0.72	11.07	8	79	24	96	0.03	0.0	7.409	0.103	6	2	4	15
PL.22431	PL.22016	B	6 A (CWC)	7.46Y	124.3	0.02	0.74	10.23	7	73	22	96	0.01	0.0	7.452	0.043	0	0	0	11
PL.22510	PL.22431	B	6 A (CWC)	7.46Y	124.3	0.00	0.74	0.78	1	6	2	95	0.00	0.0	7.518	0.066	6	2	1	1
PL.22432	PL.22431	B	6 A (CWC)	7.45Y	124.2	0.06	0.79	9.45	7	67	20	96	0.03	0.0	7.583	0.131	0	0	0	10
PL.66260	PL.22432	B	#1/0 ACSR	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	7.624	0.041	0	0	0	0
PL.22433	PL.22432	B	6 A (CWC)	7.45Y	124.2	0.02	0.81	9.45	7	67	20	96	0.01	0.0	7.634	0.051	11	3	3	10
PL.22435	PL.22433	B	6 A (CWC)	7.45Y	124.2	0.01	0.83	3.73	3	27	8	96	0.00	0.0	7.714	0.080	10	3	1	3
PL.22437	PL.22435	B	#4 ACSR	7.45Y	124.2	0.01	0.83	2.35	2	17	5	96	0.00	0.0	7.774	0.060	0	0	0	2
PL.22697	PL.22437	B	#2 ACSR	7.45Y	124.2	0.00	0.83	0.40	0	3	1	95	0.00	0.0	7.871	0.097	3	1	1	1
PL.22698	PL.22697	B	#2 ACSR	7.45Y	124.2	0.00	0.83	0.00	0	0	0	100	0.00	0.0	8.019	0.149	0	0	0	0
PL.22436	PL.22437	B	#2 ACSR	7.45Y	124.2	0.00	0.83	1.95	1	14	4	96	0.00	0.0	7.809	0.035	14	4	1	1
PL.22013	PL.22433	B	6 A (CWC)	7.45Y	124.2	0.01	0.83	3.09	2	22	7	95	0.00	0.0	7.740	0.106	8	2	1	3
PL.22438	PL.22013	B	#4 ACSR	7.45Y	124.2	0.00	0.83	1.37	1	10	3	96	0.00	0.0	7.778	0.038	10	3	1	1
PL.22014	PL.22013	B	6 A (CWC)	7.45Y	124.2	0.00	0.83	0.64	0	5	1	98	0.00	0.0	7.818	0.078	5	1	1	1
PL.22434	PL.22433	B	#4 ACSR	7.45Y	124.2	0.00	0.81	1.02	1	7	2	96	0.00	0.0	7.669	0.035	7	2	1	1
PL.22430	PL.22015	B	6 A (CWC)	7.46Y	124.3	0.00	0.67	0.06	0	0	0	100	0.00	0.0	7.409	0.103	0	0	1	1
PL.22758	PL.21987	B	6 A (CWC)	7.48Y	124.7	0.01	0.34	37.27	27	267	81	96	0.02	0.0	6.764	0.005	0	0	0	64
PD.3212	PL.22758	B	20T	7.48Y	124.7	0.00	0.34	37.27	0	267	81	96	0.00	0.0	6.764	0.005	0	0	0	64
PL.22759	PD.3212	B	6 A (CWC)	7.47Y	124.5	0.17	0.51	37.27	27	267	81	96	0.34	0.1	6.865	0.101	0	0	0	64
PL.22021	PL.22759	B	6 A (CWC)	7.46Y	124.3	0.15	0.66	37.27	27	266	81	96	0.29	0.1	6.954	0.089	12	3	1	64
PL.22022	PL.22021	B	6 A (CWC)	7.45Y	124.1	0.21	0.88	33.14	24	237	72	96	0.38	0.2	7.095	0.141	0	0	0	59
PL.22565	PL.22022	B	6 A (CWC)	7.44Y	123.9	0.19	1.07	32.43	23	231	70	96	0.32	0.1	7.223	0.128	1	0	2	57
PL.22566	PL.22565	B	6 A (CWC)	7.43Y	123.8	0.11	1.17	21.33	15	152	46	96	0.12	0.1	7.330	0.108	0	0	0	37
PL.21990	PL.22566	B	6 A (CWC)	7.42Y	123.7	0.08	1.26	21.33	15	152	46	96	0.09	0.1	7.415	0.085	0	0	0	37

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Balanced Voltage Drop Report
Source: Hargett

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.22456	PL.21990	B	6 A (CWC)	7.42Y	123.6	0.10	1.35	20.67	15	147	44	96	0.11	0.1	7.517	0.102	0	0	0	36
PL.22023	PL.22456	B	6 A (CWC)	7.41Y	123.5	0.11	1.46	15.05	11	107	32	96	0.08	0.1	7.671	0.154	4	1	1	28
PL.22467	PL.22023	B	6 A (CWC)	7.41Y	123.5	0.00	1.46	0.53	0	4	1	97	0.00	0.0	7.741	0.070	4	1	1	1
PL.22024	PL.22023	B	6 A (CWC)	7.41Y	123.4	0.10	1.55	14.02	10	99	30	96	0.07	0.1	7.822	0.151	0	0	0	26
PL.22468	PL.22024	B	#4 ACSR	7.41Y	123.4	0.00	1.56	1.18	1	8	3	94	0.00	0.0	7.884	0.062	8	3	2	2
PL.22740	PL.22024	B	6 A (CWC)	7.40Y	123.4	0.05	1.60	12.84	9	91	27	96	0.03	0.0	7.909	0.088	10	3	4	24
PL.22741	PL.22740	B	6 A (CWC)	7.40Y	123.3	0.06	1.66	11.43	8	81	24	96	0.03	0.0	8.024	0.115	7	2	2	20
PL.22470	PL.22741	B	6 A (CWC)	7.40Y	123.3	0.00	1.66	0.65	0	5	1	98	0.00	0.0	8.086	0.062	5	1	1	1
PL.22469	PL.22741	B	#1/0 ACSR	7.40Y	123.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	8.070	0.046	0	0	0	0
PL.22025	PL.22741	B	6 A (CWC)	7.40Y	123.3	0.03	1.69	9.82	7	70	21	96	0.02	0.0	8.097	0.073	2	1	2	17
PL.22026	PL.22025	B	6 A (CWC)	7.40Y	123.3	0.04	1.74	8.61	6	61	18	96	0.02	0.0	8.229	0.132	21	6	2	12
PL.22742	PL.22026	B	6 A (CWC)	7.40Y	123.3	0.01	1.75	3.32	2	23	7	96	0.00	0.0	8.303	0.074	11	3	1	6
PL.22743	PL.22742	B	6 A (CWC)	7.40Y	123.3	0.00	1.75	1.74	1	12	4	95	0.00	0.0	8.352	0.049	2	1	1	5
PL.22475	PL.22743	B	6 A (CWC)	7.39Y	123.2	0.00	1.75	1.47	1	10	3	96	0.00	0.0	8.378	0.026	5	2	3	4
PL.22476	PL.22475	B	#1/0 ACSR	7.39Y	123.2	0.00	1.75	0.70	0	5	1	98	0.00	0.0	8.441	0.063	5	1	1	1
PL.22477	PL.22476	B	#1/0 ACSR	7.39Y	123.2	0.00	1.75	0.00	0	0	0	100	0.00	0.0	8.514	0.073	0	0	0	0
PL.22473	PL.22026	B	6 A (CWC)	7.40Y	123.3	0.00	1.74	2.37	2	17	5	96	0.00	0.0	8.273	0.045	0	0	0	4
PL.22513	PL.22473	B	6 A (CWC)	7.40Y	123.3	0.00	1.74	2.05	1	14	4	96	0.00	0.0	8.322	0.049	14	4	3	3
PL.22474	PL.22473	B	#1/0 ACSR	7.40Y	123.3	0.00	1.74	0.32	0	2	1	89	0.00	0.0	8.329	0.056	2	1	1	1
PL.22027	PL.22025	B	6 A (CWC)	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	8.114	0.017	0	0	0	0
PL.22472	PL.22027	B	6 A (CWC)	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	8.212	0.098	0	0	0	0
PL.22481	PL.22472	B	#4 ACSR	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	8.239	0.027	0	0	0	0
PL.22028	PL.22027	B	6 A (CWC)	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	8.175	0.061	0	0	0	0
PL.22480	PL.22028	B	#4 ACSR	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	8.271	0.095	0	0	0	0
PL.22471	PL.22025	B	#4 ACSR	7.40Y	123.3	0.00	1.70	0.89	1	6	2	95	0.00	0.0	8.164	0.067	1	0	1	3
PL.22483	PL.22471	B	#2 ACSR	7.40Y	123.3	0.00	1.70	0.73	0	5	2	93	0.00	0.0	8.247	0.084	5	2	2	2
PL.22484	PL.22483	B	#2 ACSR	7.40Y	123.3	0.00	1.70	0.00	0	0	0	100	0.00	0.0	8.288	0.041	0	0	0	0
PL.22458	PL.22456	B	6 A (CWC)	7.42Y	123.6	0.04	1.39	5.62	4	40	12	96	0.01	0.0	7.683	0.166	9	3	1	8
PL.22738	PL.22458	B	#4 ACSR	7.42Y	123.6	0.00	1.39	0.24	0	2	1	89	0.00	0.0	7.699	0.015	0	0	1	2
PL.22739	PL.22738	B	#4 ACSR	7.42Y	123.6	0.00	1.39	0.24	0	2	1	89	0.00	0.0	7.774	0.075	2	1	1	1
PL.22460	PL.22458	B	#1/0 ACSR	7.42Y	123.6	0.00	1.39	0.99	0	7	2	96	0.00	0.0	7.757	0.074	7	2	1	1

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Balanced Voltage Drop Report
Source: Hargett

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.22459	PL.22458	B	#4 ACSR	7.42Y	123.6	0.00	1.39	3.07	2	22	7	95	0.00	0.0	7.706	0.023	0	0	0	4
PL.22569	PL.22459	B	#4 ACSR	7.42Y	123.6	0.01	1.41	3.07	2	22	7	95	0.00	0.0	7.817	0.112	10	3	1	4
PL.22570	PL.22569	B	#4 ACSR	7.42Y	123.6	0.00	1.41	0.09	0	1	0	100	0.00	0.0	7.889	0.072	1	0	1	1
PL.22457	PL.22569	B	#4 ACSR	7.42Y	123.6	0.00	1.41	1.57	1	11	3	96	0.00	0.0	7.883	0.065	11	3	2	2
PL.22455	PL.21990	B	#1/0 ACSR	7.42Y	123.7	0.00	1.26	0.66	0	5	1	98	0.00	0.0	7.472	0.057	5	1	1	1
PL.22628	PL.22565	B	#4 ACSR	7.43Y	123.9	0.02	1.09	10.95	8	78	23	96	0.01	0.0	7.277	0.054	10	3	1	18
PL.22629	PL.22628	B	#4 ACSR	7.43Y	123.8	0.07	1.16	9.57	7	68	21	96	0.03	0.1	7.434	0.157	1	0	1	17
PL.22445	PL.22629	B	#4 ACSR	7.43Y	123.8	0.00	1.16	0.20	0	1	0	100	0.00	0.0	7.455	0.021	1	0	1	1
PL.22624	PL.22629	B	#4 ACSR	7.43Y	123.8	0.03	1.19	9.30	7	66	20	96	0.02	0.0	7.509	0.075	1	0	1	15
PL.22625	PL.22624	B	#4 ACSR	7.43Y	123.8	0.04	1.23	9.10	7	65	19	96	0.02	0.0	7.615	0.106	2	0	1	14
PL.22447	PL.22625	B	#2 ACSR	7.43Y	123.8	0.00	1.24	2.33	1	17	5	96	0.00	0.0	7.664	0.049	0	0	0	5
PL.22446	PL.22447	B	#4 ACSR	7.43Y	123.8	0.00	1.24	2.33	2	17	5	96	0.00	0.0	7.697	0.033	6	2	1	5
PL.22449	PL.22446	B	#1/0 ACSR	7.43Y	123.8	0.00	1.24	1.46	1	10	3	96	0.00	0.0	7.806	0.108	0	0	0	4
PL.22611	PL.22449	B	#1/0 ACSR	7.43Y	123.8	0.00	1.24	1.27	1	9	3	95	0.00	0.0	7.873	0.068	0	0	1	3
PL.22612	PL.22611	B	#1/0 ACSR	7.43Y	123.8	0.00	1.25	1.27	1	9	3	95	0.00	0.0	7.917	0.044	9	3	2	2
PL.22448	PL.22449	B	#1/0 ACSR	7.43Y	123.8	0.00	1.24	0.19	0	1	0	100	0.00	0.0	7.850	0.044	1	0	1	1
PL.22626	PL.22625	B	#4 ACSR	7.42Y	123.7	0.03	1.27	6.55	5	47	14	96	0.01	0.0	7.736	0.121	2	1	1	8
PL.22627	PL.22626	B	#4 ACSR	7.42Y	123.7	0.03	1.30	6.30	5	45	13	96	0.01	0.0	7.871	0.135	8	2	1	7
PL.22017	PL.22627	B	#4 ACSR	7.42Y	123.7	0.00	1.30	4.41	3	31	9	96	0.00	0.0	7.886	0.015	0	0	0	5
PL.22511	PL.22017	B	#4 ACSR	7.42Y	123.7	0.00	1.31	1.08	1	8	2	97	0.00	0.0	7.969	0.084	8	2	1	1
PL.22451	PL.22017	B	#2 ACSR	7.42Y	123.7	0.01	1.32	3.34	2	24	7	96	0.00	0.0	7.996	0.111	0	0	0	4
PL.22452	PL.22451	B	#2 ACSR	7.42Y	123.7	0.00	1.32	0.70	0	5	1	98	0.00	0.0	8.035	0.038	5	1	1	1
PL.22512	PL.22451	B	#2 ACSR	7.42Y	123.7	0.00	1.32	2.63	2	19	6	95	0.00	0.0	8.026	0.030	0	0	0	3
PL.22453	PL.22512	B	#2 ACSR	7.42Y	123.7	0.00	1.32	1.69	1	12	4	95	0.00	0.0	8.088	0.062	12	4	1	1
PL.22613	PL.22512	B	#1/0 ACSR	7.42Y	123.7	0.00	1.32	0.44	0	3	1	95	0.00	0.0	8.141	0.115	3	1	1	1
PL.22614	PL.22613	B	#1/0 ACSR	7.42Y	123.7	0.00	1.32	0.00	0	0	0	100	0.00	0.0	8.260	0.119	0	0	0	0
PL.22454	PL.22512	B	#2 ACSR	7.42Y	123.7	0.00	1.32	0.50	0	4	1	97	0.00	0.0	8.067	0.041	4	1	1	1
PL.22450	PL.22627	B	#4 ACSR	7.42Y	123.7	0.00	1.30	0.83	1	6	2	95	0.00	0.0	7.899	0.029	6	2	1	1
PL.22444	PL.22022	B	6 A (CWC)	7.45Y	124.1	0.00	0.88	0.70	1	5	2	93	0.00	0.0	7.147	0.052	5	2	2	2
PL.22439	PL.22021	B	6 A (CWC)	7.46Y	124.3	0.01	0.67	2.51	2	18	5	96	0.00	0.0	7.011	0.057	0	0	0	4
PL.22443	PL.22439	B	#4 ACSR	7.46Y	124.3	0.01	0.68	2.51	2	18	5	96	0.00	0.0	7.135	0.124	0	0	0	4

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Balanced Voltage Drop Report
Source: Hargett

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.22440	PL.22443	B	#2 ACSR	7.46Y	124.3	0.00	0.68	0.40	0	3	1	95	0.00	0.0	7.195	0.061	3	1	1	1
PL.22441	PL.22443	B	#2 ACSR	7.46Y	124.3	0.00	0.68	0.01	0	0	0	100	0.00	0.0	7.286	0.151	0	0	1	1
PL.22630	PL.22443	B	#2 ACSR	7.46Y	124.3	0.00	0.69	2.10	1	15	5	95	0.00	0.0	7.194	0.060	6	2	1	2
PL.22631	PL.22630	B	#2 ACSR	7.46Y	124.3	0.00	0.69	1.29	1	9	3	95	0.00	0.0	7.240	0.046	9	3	1	1
PL.22384	PD.3245	B	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	5.610	0.108	0	0	0	0
PL.22509	PL.22384	B	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	5.780	0.170	0	0	0	0
PL.21984	PL.22509	B	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	5.909	0.129	0	0	0	0
PL.22386	PL.22384	B	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	5.708	0.098	0	0	0	0
PL.22770	PL.22837	C	6 A (CWC)	7.37Y	122.9	0.00	2.12	0.04	0	0	0	100	0.00	0.0	4.650	0.005	0	0	0	1
PD.3218	PL.22770	C	30T	7.37Y	122.9	0.00	2.12	0.04	0	0	0	100	0.00	0.0	4.650	0.005	0	0	0	1
PL.22771	PD.3218	C	6 A (CWC)	7.37Y	122.9	0.00	2.12	0.04	0	0	0	100	0.00	0.0	4.717	0.067	0	0	1	1
CP.34	PL.22836	ABC	Cap (300)	7.38Y	122.9	0.00	2.05	0.00	0	0	0	100	0.00	0.0	4.552	0.067	0	0	0	0
PL.21795	PL.22560	C	#4 ACSR	7.40Y	123.4	0.00	1.63	10.35	8	73	22	96	0.00	0.0	4.078	0.005	0	0	0	10
PD.3217	PL.21795	C	30T	7.40Y	123.4	0.00	1.63	10.35	0	73	22	96	0.00	0.0	4.078	0.005	0	0	0	10
PL.21796	PD.3217	C	6 A (CWC)	7.40Y	123.3	0.04	1.67	7.64	5	54	16	96	0.02	0.0	4.192	0.114	0	0	0	8
PL.22378	PL.21796	C	6 A (CWC)	7.40Y	123.3	0.00	1.67	0.97	1	7	2	96	0.00	0.0	4.244	0.052	7	2	1	1
PL.22504	PL.21796	C	6 A (CWC)	7.40Y	123.3	0.01	1.68	6.68	5	47	14	96	0.00	0.0	4.236	0.045	0	0	0	7
PL.21797	PL.22504	C	#4 ACSR	7.40Y	123.3	0.03	1.71	4.74	4	34	10	96	0.01	0.0	4.388	0.152	0	0	0	6
PL.22585	PL.21797	C	#4 ACSR	7.40Y	123.3	0.01	1.73	4.74	4	34	10	96	0.00	0.0	4.456	0.068	0	0	1	6
PL.22586	PL.22585	C	#4 ACSR	7.40Y	123.3	0.00	1.73	2.27	2	16	5	95	0.00	0.0	4.482	0.026	0	0	0	2
PL.21816	PL.22586	C	#4 ACSR	7.40Y	123.3	0.00	1.73	2.27	2	16	5	95	0.00	0.0	4.555	0.074	16	5	1	2
PL.21817	PL.21816	C	#4 ACSR	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	4.691	0.136	0	0	1	1
PL.22376	PL.22585	C	6 A (CWC)	7.40Y	123.3	0.01	1.73	2.45	2	17	5	96	0.00	0.0	4.502	0.046	0	0	0	3
PL.22505	PL.22376	C	6 A (CWC)	7.40Y	123.3	0.00	1.74	1.27	1	9	3	95	0.00	0.0	4.611	0.109	9	3	2	2
PL.22377	PL.22376	C	#4 ACSR	7.40Y	123.3	0.00	1.74	1.18	1	8	3	94	0.00	0.0	4.645	0.143	8	3	1	1
PL.22379	PL.22504	C	#4 ACSR	7.40Y	123.3	0.01	1.69	1.94	1	14	4	96	0.00	0.0	4.386	0.150	14	4	1	1
PL.21807	PD.3217	C	#4 ACSR	7.40Y	123.4	0.01	1.63	2.71	2	19	6	95	0.00	0.0	4.135	0.057	9	3	1	2
PL.21808	PL.21807	C	#4 ACSR	7.40Y	123.4	0.01	1.64	1.38	1	10	3	96	0.00	0.0	4.307	0.172	10	3	1	1
PL.22603	PL.22497	ABC	336 MCM AC	7.47Y	124.5	0.00	0.51	2.95	1	63	19	96	0.00	0.0	1.613	0.073	0	0	1	14
PL.22604	PL.22603	ABC	336 MCM AC	7.47Y	124.5	0.00	0.51	2.95	1	63	19	96	0.00	0.0	1.674	0.061	5	1	1	13
PL.22746	PL.22604	A	#1/0 ACSR	7.47Y	124.5	0.00	0.51	3.84	2	27	8	96	0.00	0.0	1.678	0.005	0	0	0	6

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: Hargett

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.3206	PL.22746	A	65T	7.47Y	124.5	0.00	0.51	3.84	0	27	8	96	0.00	0.0	1.678	0.005	0	0	0	6
PL.22747	PD.3206	A	#1/0 ACSR	7.47Y	124.5	0.00	0.52	3.84	2	27	8	96	0.00	0.0	1.727	0.049	4	1	1	6
PL.22605	PL.22747	A	#1/0 ACSR	7.47Y	124.5	0.00	0.52	3.32	1	24	7	96	0.00	0.0	1.746	0.018	0	0	1	5
PL.21788	PL.22605	A	#2 ACSR	7.47Y	124.5	0.00	0.52	3.30	2	24	7	96	0.00	0.0	1.790	0.045	0	0	0	4
PL.21782	PL.21788	A	#1/0 ACSR	7.47Y	124.5	0.00	0.52	1.71	1	12	4	95	0.00	0.0	1.853	0.063	12	4	2	2
PL.22606	PL.21788	A	#2 ACSR	7.47Y	124.5	0.00	0.53	1.59	1	11	3	96	0.00	0.0	1.928	0.137	7	2	1	2
PL.22607	PL.22606	A	#2 ACSR	7.47Y	124.5	0.00	0.53	0.59	0	4	1	97	0.00	0.0	1.945	0.018	0	0	0	1
PL.21789	PL.22607	A	#1/0 ACSR	7.47Y	124.5	0.00	0.53	0.59	0	4	1	97	0.00	0.0	2.003	0.058	4	1	1	1
PL.22020	PL.22604	ABC	336 MCM AC	7.47Y	124.5	0.00	0.51	1.45	0	31	9	96	0.00	0.0	1.722	0.048	1	0	1	6
PL.22748	PL.22020	C	#4 ACSR	7.47Y	124.5	0.00	0.51	3.04	2	22	7	95	0.00	0.0	1.727	0.005	0	0	0	4
PD.3207	PL.22748	C	65T	7.47Y	124.5	0.00	0.51	3.04	0	22	7	95	0.00	0.0	1.727	0.005	0	0	0	4
PL.22749	PD.3207	C	#4 ACSR	7.47Y	124.5	0.01	0.52	3.04	2	22	7	95	0.00	0.0	1.787	0.060	5	2	1	4
PL.21783	PL.22749	C	#4 ACSR	7.47Y	124.5	0.00	0.52	1.21	1	9	3	95	0.00	0.0	1.851	0.065	9	3	1	1
PL.21790	PL.22749	C	#1/0 ACSR	7.47Y	124.5	0.00	0.52	1.09	0	8	2	97	0.00	0.0	1.818	0.031	8	2	2	2
PL.22019	PL.22020	ABC	336 MCM AC	7.47Y	124.5	0.00	0.51	0.37	0	8	2	97	0.00	0.0	1.728	0.006	0	0	0	1
PL.22750	PL.22019	A	#2 ACSR	7.47Y	124.5	0.00	0.51	1.11	1	8	2	97	0.00	0.0	1.732	0.005	0	0	0	1
PD.3208	PL.22750	A	65T	7.47Y	124.5	0.00	0.51	1.11	0	8	2	97	0.00	0.0	1.732	0.005	0	0	0	1
PL.22751	PD.3208	A	#2 ACSR	7.47Y	124.5	0.00	0.51	1.11	1	8	2	97	0.00	0.0	1.742	0.010	8	2	1	1
PL.22818	PL.22019	ABC	336 MCM AC	7.47Y	124.5	0.00	0.51	0.00	0	0	0	100	0.00	0.0	1.801	0.073	0	0	0	0
PD.3242-A	PL.22818	ABC	Open	7.47Y	124.5	0.00	0.51	0.00	0	0	0	100	0.00	0.0	1.801	0.073	0	0	0	0
PL.25699	Hargett	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	76.66	15	1642	529	95	0.00	0.0	0.005	0.005	0	0	0	331
PL.72938	PL.25699	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	76.66	15	1642	529	95	0.00	0.0	0.009	0.004	0	0	0	331
---------- Feeder No. 4 (Ivory Hill F4) Beginning with Device PD.11205 ----------																				
PD.11205	PL.72938	ABC	360VWE	7.50Y	125.0	0.00	0.00	76.66	0	1642	529	95	0.00	0.0	0.009	0.004	0	0	0	331
PL.25700	PD.11205	ABC	397 SPACER	7.50Y	125.0	0.02	0.02	76.66	15	1642	529	95	0.05	0.0	0.079	0.070	0	0	0	331
PL.24773	PL.25700	ABC	397 SPACER	7.50Y	124.9	0.03	0.05	76.66	15	1642	528	95	0.10	0.0	0.203	0.125	0	0	0	331
PL.24774	PL.24773	ABC	397 SPACER	7.50Y	124.9	0.03	0.08	76.66	15	1642	527	95	0.09	0.0	0.319	0.116	0	0	0	331
PL.24775	PL.24774	ABC	397 SPACER	7.49Y	124.9	0.04	0.12	76.66	15	1642	526	95	0.11	0.0	0.464	0.145	0	0	0	331
PL.24776	PL.24775	ABC	397 SPACER	7.49Y	124.8	0.03	0.15	76.66	15	1642	524	95	0.10	0.0	0.590	0.126	0	0	0	331

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: Hargett

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.24777	PL.24776	ABC	397 SPACER	7.49Y	124.8	0.03	0.18	76.66	15	1641	523	95	0.10	0.0	0.713	0.123	0	0	0	331
PL.24778	PL.24777	ABC	397 SPACER	7.49Y	124.8	0.04	0.22	76.66	15	1641	522	95	0.11	0.0	0.851	0.138	0	0	0	331
PL.24779	PL.24778	ABC	397 SPACER	7.49Y	124.8	0.03	0.25	76.66	15	1641	521	95	0.08	0.0	0.958	0.107	0	0	0	331
PL.24780	PL.24779	ABC	397 SPACER	7.48Y	124.7	0.04	0.28	76.66	15	1641	520	95	0.11	0.0	1.100	0.141	0	0	0	331
PL.24781	PL.24780	ABC	397 SPACER	7.48Y	124.7	0.03	0.31	76.66	15	1641	519	95	0.09	0.0	1.212	0.113	0	0	0	331
PL.24735	PL.24781	ABC	336 MCM AC	7.48Y	124.7	0.03	0.34	76.66	15	1641	517	95	0.24	0.0	1.261	0.048	0	0	0	331
PL.24664	PL.24735	C	#4 ACSR	7.48Y	124.7	0.00	0.34	1.82	1	13	4	96	0.00	0.0	1.297	0.036	0	0	0	1
PD.3477	PL.24664	C	65T	7.48Y	124.7	0.00	0.34	1.82	0	13	4	96	0.00	0.0	1.297	0.036	0	0	0	1
PL.24665	PD.3477	C	#4 ACSR	7.48Y	124.7	0.00	0.34	1.82	1	13	4	96	0.00	0.0	1.349	0.052	13	4	1	1
PL.24528	PL.24735	ABC	336 MCM AC	7.48Y	124.6	0.08	0.41	76.06	15	1628	513	95	0.63	0.0	1.390	0.129	0	0	0	330
PL.24782	PL.24528	ABC	336 MCM AC	7.47Y	124.5	0.08	0.49	76.06	15	1627	512	95	0.66	0.0	1.525	0.136	0	0	0	330
PL.24783	PL.24782	ABC	336 MCM AC	7.47Y	124.4	0.07	0.57	76.06	15	1626	510	95	0.59	0.0	1.647	0.122	0	0	0	330
PL.24529	PL.24783	ABC	336 MCM AC	7.47Y	124.4	0.00	0.57	0.00	0	0	0	100	0.00	0.0	1.708	0.061	0	0	0	0
PL.22819	PL.24529	ABC	336 MCM AC	7.47Y	124.4	0.00	0.57	0.00	0	0	0	100	0.00	0.0	1.713	0.005	0	0	0	0
PD.3242-B	PL.22819	ABC	Open	7.47Y	124.4	0.00	0.57	0.00	0	0	0	100	0.00	0.0	1.713	0.005	0	0	0	0
PL.24736	PL.24783	ABC	336 MCM AC	7.46Y	124.4	0.05	0.61	75.88	15	1622	507	95	0.37	0.0	1.724	0.077	0	0	0	327
PL.24674	PL.24736	C	#1/0 ACSR	7.46Y	124.4	0.00	0.61	22.76	10	163	49	96	0.00	0.0	1.729	0.005	0	0	0	12
PD.3482	PL.24674	C	65T	7.46Y	124.4	0.00	0.61	22.76	0	163	49	96	0.00	0.0	1.729	0.005	0	0	0	12
PL.24675	PD.3482	C	#1/0 ACSR	7.46Y	124.4	0.03	0.64	22.76	10	163	49	96	0.03	0.0	1.779	0.050	20	6	2	12
PL.24854	PL.24675	C	#1/0 ACSR	7.46Y	124.4	0.01	0.65	5.20	2	37	11	96	0.00	0.0	1.834	0.055	0	0	0	6
PL.24532	PL.24854	C	#1/0 ACSR	7.46Y	124.4	0.00	0.65	1.02	0	7	2	96	0.00	0.0	1.852	0.018	7	2	2	2
PL.24867	PL.24854	C	#1/0 ACSR	7.46Y	124.4	0.00	0.65	4.19	2	30	9	96	0.00	0.0	1.875	0.041	8	3	1	4
PL.24868	PL.24867	C	#1/0 ACSR	7.46Y	124.3	0.00	0.65	3.02	1	22	6	96	0.00	0.0	1.930	0.055	14	4	1	3
PL.24853	PL.24868	C	#1/0 ACSR	7.46Y	124.3	0.00	0.65	0.00	0	0	0	100	0.00	0.0	1.993	0.063	0	0	1	1
PL.24533	PL.24868	C	#1/0 ACSR	7.46Y	124.3	0.00	0.65	1.01	0	7	2	96	0.00	0.0	1.971	0.042	7	2	1	1
PL.24530	PL.24675	C	#1/0 ACSR	7.46Y	124.4	0.00	0.64	1.32	1	9	3	95	0.00	0.0	1.852	0.073	9	3	1	1
PL.24531	PL.24675	C	#1/0 ACSR	7.46Y	124.4	0.01	0.64	13.38	6	96	29	96	0.00	0.0	1.811	0.032	96	29	3	3
PL.24869	PL.24736	ABC	336 MCM AC	7.46Y	124.3	0.07	0.68	68.29	13	1459	458	95	0.52	0.0	1.856	0.132	5	2	2	315
PL.24870	PL.24869	ABC	336 MCM AC	7.46Y	124.3	0.02	0.70	68.05	13	1453	455	95	0.17	0.0	1.899	0.044	1	0	1	313
PL.24856	PL.24870	ABC	336 MCM AC	7.46Y	124.3	0.03	0.74	67.60	13	1443	452	95	0.23	0.0	1.960	0.061	0	0	1	310
PL.24855	PL.24856	ABC	336 MCM AC	7.45Y	124.2	0.03	0.77	67.59	13	1443	451	95	0.24	0.0	2.022	0.062	0	0	0	308

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: Hargett

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.25042	PL.24855	A	#2 ACSR	7.45Y	124.2	0.00	0.77	1.86	1	13	4	96	0.00	0.0	2.027	0.005	0	0	0	1
PD.3533	PL.25042	A	65T	7.45Y	124.2	0.00	0.77	1.86	0	13	4	96	0.00	0.0	2.027	0.005	0	0	0	1
PL.25043	PD.3533	A	#2 ACSR	7.45Y	124.2	0.00	0.77	1.86	1	13	4	96	0.00	0.0	2.044	0.017	13	4	1	1
PL.24871	PL.24855	ABC	336 MCM AC	7.45Y	124.2	0.04	0.80	66.97	13	1429	446	95	0.26	0.0	2.091	0.069	1	0	1	307
PL.24872	PL.24871	ABC	336 MCM AC	7.45Y	124.2	0.02	0.82	66.91	13	1428	445	95	0.14	0.0	2.127	0.036	4	1	1	306
PL.24852	PL.24872	ABC	336 MCM AC	7.45Y	124.1	0.05	0.87	66.52	13	1420	443	95	0.34	0.0	2.217	0.091	0	0	0	303
PL.24737	PL.24852	ABC	336 MCM AC	7.45Y	124.1	0.02	0.89	66.44	13	1417	441	95	0.15	0.0	2.259	0.042	0	0	0	302
PL.24738	PL.24737	ABC	336 MCM AC	7.44Y	124.1	0.03	0.92	66.25	13	1413	440	95	0.23	0.0	2.320	0.061	0	0	0	301
PL.25018	PL.24738	A	#2 ACSR	7.44Y	124.1	0.00	0.92	0.18	0	1	0	100	0.00	0.0	2.324	0.005	0	0	0	1
PD.3521	PL.25018	A	65T	7.44Y	124.1	0.00	0.92	0.18	0	1	0	100	0.00	0.0	2.324	0.005	0	0	0	1
PL.25019	PD.3521	A	#2 ACSR	7.44Y	124.1	0.00	0.92	0.18	0	1	0	100	0.00	0.0	2.377	0.053	1	0	1	1
PL.24850	PL.24738	ABC	336 MCM AC	7.44Y	124.0	0.04	0.96	65.92	13	1406	437	95	0.28	0.0	2.396	0.077	0	0	0	299
PL.24851	PL.24850	ABC	336 MCM AC	7.44Y	124.0	0.04	1.00	65.36	13	1394	433	95	0.30	0.0	2.479	0.083	0	0	0	298
PL.25020	PL.24851	A	#1/0 ACSR	7.44Y	124.0	0.00	1.00	0.64	0	5	1	98	0.00	0.0	2.484	0.005	0	0	0	1
PD.3522	PL.25020	A	65T	7.44Y	124.0	0.00	1.00	0.64	0	5	1	98	0.00	0.0	2.484	0.005	0	0	0	1
PL.25021	PD.3522	A	#1/0 ACSR	7.44Y	124.0	0.00	1.00	0.64	0	5	1	98	0.00	0.0	2.520	0.036	5	1	1	1
PL.24672	PL.24851	C	#4 ACSR	7.44Y	124.0	0.00	1.00	0.71	1	5	2	93	0.00	0.0	2.484	0.005	0	0	0	1
PD.3481	PL.24672	C	65T	7.44Y	124.0	0.00	1.00	0.71	0	5	2	93	0.00	0.0	2.484	0.005	0	0	0	1
PL.24673	PD.3481	C	#4 ACSR	7.44Y	124.0	0.00	1.00	0.71	1	5	2	93	0.00	0.0	2.592	0.108	5	2	1	1
PL.24865	PL.24851	ABC	336 MCM AC	7.44Y	124.0	0.01	1.02	64.91	13	1384	429	96	0.10	0.0	2.507	0.028	11	3	1	296
PL.24866	PL.24865	ABC	336 MCM AC	7.43Y	123.9	0.08	1.10	64.40	12	1373	426	96	0.57	0.0	2.671	0.164	0	0	0	295
PL.24739	PL.24866	ABC	336 MCM AC	7.43Y	123.9	0.05	1.15	63.89	12	1361	421	96	0.34	0.0	2.770	0.099	0	0	0	293
PL.25048	PL.24739	ABC	#4 ACSR	7.43Y	123.9	0.00	1.15	0.10	0	2	1	89	0.00	0.0	2.775	0.005	0	0	0	1
PD.3536	PL.25048	ABC	65T	7.43Y	123.9	0.00	1.15	0.10	0	2	1	89	0.00	0.0	2.775	0.005	0	0	0	1
PL.25049	PD.3536	ABC	#4 ACSR	7.43Y	123.9	0.00	1.15	0.10	0	2	1	89	0.00	0.0	2.799	0.024	2	1	1	1
PL.24740	PL.24739	ABC	336 MCM AC	7.43Y	123.8	0.02	1.17	63.79	12	1359	419	96	0.17	0.0	2.819	0.049	0	0	0	292
PL.24971	PL.24740	C	#4 ACSR	7.43Y	123.8	0.00	1.17	1.43	1	10	3	96	0.00	0.0	2.824	0.005	0	0	0	1
PD.3496	PL.24971	C	65T	7.43Y	123.8	0.00	1.17	1.43	0	10	3	96	0.00	0.0	2.824	0.005	0	0	0	1
PL.24972	PD.3496	C	#4 ACSR	7.43Y	123.8	0.00	1.17	1.43	1	10	3	96	0.00	0.0	2.837	0.013	10	3	1	1
PL.24741	PL.24740	ABC	336 MCM AC	7.43Y	123.8	0.06	1.23	63.32	12	1349	416	96	0.41	0.0	2.941	0.122	0	0	0	291
PL.25022	PL.24741	C	#1/0 ACSR	7.43Y	123.8	0.00	1.23	9.11	4	65	19	96	0.00	0.0	2.946	0.005	0	0	0	16

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

Balanced Voltage Drop Report
Source: Hargett

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.3523	PL.25022	C	65T	7.43Y	123.8	0.00	1.23	9.11	0	65	19	96	0.00	0.0	2.946	0.005	0	0	0	16
PL.25023	PD.3523	C	#1/0 ACSR	7.43Y	123.8	0.01	1.24	9.11	4	65	19	96	0.01	0.0	3.018	0.072	14	4	1	16
PL.24535	PL.25023	C	#1/0 ACSR	7.43Y	123.8	0.00	1.24	0.52	0	4	1	97	0.00	0.0	3.149	0.131	3	1	1	2
PL.24536	PL.24535	C	#1/0 ACSR	7.43Y	123.8	0.00	1.24	0.13	0	1	0	100	0.00	0.0	3.223	0.074	1	0	1	1
PL.24847	PL.25023	C	#1/0 ACSR	7.42Y	123.7	0.01	1.25	6.65	3	47	14	96	0.00	0.0	3.073	0.055	0	0	1	13
PL.24573	PL.24847	C	#1/0 ACSR	7.42Y	123.7	0.00	1.25	0.42	0	3	1	95	0.00	0.0	3.106	0.033	3	1	1	1
PL.24654	PL.24847	C	6 A (CWC)	7.42Y	123.7	0.05	1.30	6.17	4	44	13	96	0.02	0.0	3.246	0.173	0	0	0	11
PL.24784	PL.24654	C	6 A (CWC)	7.42Y	123.6	0.05	1.35	6.17	4	44	13	96	0.02	0.0	3.420	0.175	0	0	0	11
PL.24863	PL.24784	C	6 A (CWC)	7.42Y	123.6	0.02	1.38	6.17	4	44	13	96	0.01	0.0	3.517	0.097	9	3	2	11
PL.24864	PL.24863	C	6 A (CWC)	7.42Y	123.6	0.03	1.40	4.97	4	35	11	95	0.01	0.0	3.633	0.116	0	0	0	9
PL.24574	PL.24864	C	6 A (CWC)	7.41Y	123.6	0.02	1.42	3.31	2	24	7	96	0.00	0.0	3.764	0.131	0	0	0	7
PL.24785	PL.24574	C	6 A (CWC)	7.41Y	123.6	0.01	1.44	3.31	2	24	7	96	0.00	0.0	3.884	0.120	10	3	2	7
PL.24650	PL.24785	C	#4 ACSR	7.41Y	123.6	0.00	1.44	1.84	1	13	4	96	0.00	0.0	3.899	0.015	0	0	0	5
PL.24657	PL.24650	C	#4 ACSR	7.41Y	123.6	0.01	1.44	1.84	1	13	4	96	0.00	0.0	3.968	0.068	0	0	0	5
PL.24861	PL.24657	C	#4 ACSR	7.41Y	123.6	0.00	1.45	0.95	1	7	2	96	0.00	0.0	4.034	0.066	1	0	1	2
PL.24862	PL.24861	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.83	1	6	2	95	0.00	0.0	4.149	0.114	0	0	0	1
PL.24786	PL.24862	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.83	1	6	2	95	0.00	0.0	4.287	0.139	6	2	1	1
PL.24848	PL.24657	C	6 A (CWC)	7.41Y	123.6	0.00	1.45	0.88	1	6	2	95	0.00	0.0	4.033	0.065	6	2	1	3
PL.24575	PL.24848	C	#4 ACSR	7.41Y	123.6	0.00	1.45	0.06	0	0	0	100	0.00	0.0	4.112	0.079	0	0	1	1
PL.24849	PL.24848	C	6 A (CWC)	7.41Y	123.6	0.00	1.45	0.02	0	0	0	100	0.00	0.0	4.096	0.063	0	0	0	1
PL.24742	PL.24849	C	6 A (CWC)	7.41Y	123.6	0.00	1.45	0.02	0	0	0	100	0.00	0.0	4.199	0.103	0	0	1	1
PL.24651	PL.24849	C	#4 ACSR	7.41Y	123.6	0.00	1.45	0.00	0	0	0	100	0.00	0.0	4.105	0.009	0	0	0	0
PL.24655	PL.24651	C	#4 ACSR	7.41Y	123.6	0.00	1.45	0.00	0	0	0	100	0.00	0.0	4.131	0.026	0	0	0	0
PL.24656	PL.24655	C	#4 ACSR	7.41Y	123.6	0.00	1.45	0.00	0	0	0	100	0.00	0.0	4.173	0.043	0	0	0	0
PL.24646	PL.24864	C	6 A (CWC)	7.42Y	123.6	0.01	1.41	1.66	1	12	4	95	0.00	0.0	3.759	0.126	0	0	0	2
PL.24647	PL.24646	C	6 A (CWC)	7.42Y	123.6	0.00	1.42	1.66	1	12	4	95	0.00	0.0	3.813	0.054	0	0	0	2
PL.24652	PL.24647	C	#4 ACSR	7.42Y	123.6	0.00	1.42	0.00	0	0	0	100	0.00	0.0	3.896	0.083	0	0	0	0
PL.24648	PL.24647	C	6 A (CWC)	7.41Y	123.6	0.00	1.42	1.66	1	12	4	95	0.00	0.0	3.928	0.115	10	3	1	2
PL.24649	PL.24648	C	6 A (CWC)	7.41Y	123.6	0.00	1.42	0.19	0	1	0	100	0.00	0.0	4.035	0.107	1	0	1	1
PL.25024	PL.24741	A	#1/0 ACSR	7.43Y	123.8	0.00	1.23	10.94	5	78	23	96	0.00	0.0	2.946	0.005	0	0	0	12
PD.3524	PL.25024	A	20T	7.43Y	123.8	0.00	1.23	10.94	0	78	23	96	0.00	0.0	2.946	0.005	0	0	0	12

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Balanced Voltage Drop Report
Source: Hargett

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.25025	PD.3524	A	#1/0 ACSR	7.42Y	123.7	0.02	1.25	10.94	5	78	23	96	0.01	0.0	3.027	0.081	0	0	0	12
PL.24900	PL.25025	A	#1/0 ACSR	7.42Y	123.7	0.03	1.28	10.94	5	78	23	96	0.01	0.0	3.142	0.115	6	2	1	12
PL.24901	PL.24900	A	#1/0 ACSR	7.42Y	123.7	0.02	1.30	10.13	4	72	22	96	0.01	0.0	3.227	0.084	12	4	2	11
PL.24542	PL.24901	A	6 A (CWC)	7.42Y	123.7	0.01	1.31	2.20	2	16	5	95	0.00	0.0	3.310	0.083	0	0	0	4
PL.24543	PL.24542	A	#4 ACSR	7.42Y	123.7	0.00	1.31	0.03	0	0	0	100	0.00	0.0	3.368	0.058	0	0	1	1
PL.24544	PL.24542	A	#4 ACSR	7.42Y	123.7	0.01	1.31	2.17	2	15	5	95	0.00	0.0	3.421	0.111	15	5	2	2
PL.24981	PL.24542	A	#4 ACSR	7.42Y	123.7	0.00	1.31	0.01	0	0	0	100	0.00	0.0	3.315	0.005	0	0	0	1
PD.3501	PL.24981	A	40T	7.42Y	123.7	0.00	1.31	0.01	0	0	0	100	0.00	0.0	3.315	0.005	0	0	0	1
PL.24982	PD.3501	A	#4 ACSR	7.42Y	123.7	0.00	1.31	0.01	0	0	0	100	0.00	0.0	3.456	0.141	0	0	0	1
PL.24787	PL.24982	A	#4 ACSR	7.42Y	123.7	0.00	1.31	0.01	0	0	0	100	0.00	0.0	3.645	0.189	0	0	1	1
PL.24902	PL.24901	A	#2 ACSR	7.42Y	123.7	0.01	1.31	4.85	3	35	10	96	0.00	0.0	3.289	0.062	10	3	1	3
PL.24903	PL.24902	A	#2 ACSR	7.42Y	123.7	0.00	1.31	3.49	2	25	7	96	0.00	0.0	3.340	0.051	25	7	2	2
PL.24545	PL.24901	A	#4 ACSR	7.42Y	123.7	0.00	1.30	1.32	1	9	3	95	0.00	0.0	3.259	0.033	9	3	2	2
PL.24845	PL.24741	ABC	#1/0 ACSR	7.42Y	123.7	0.12	1.35	56.64	25	1206	372	96	0.99	0.1	3.058	0.117	5	1	1	263
PL.24975	PL.24845	C	#4 ACSR	7.42Y	123.7	0.00	1.35	1.03	1	7	2	96	0.00	0.0	3.063	0.005	0	0	0	1
PD.3498	PL.24975	C	65T	7.42Y	123.7	0.00	1.35	1.03	0	7	2	96	0.00	0.0	3.063	0.005	0	0	0	1
PL.24976	PD.3498	C	#4 ACSR	7.42Y	123.6	0.00	1.35	1.03	1	7	2	96	0.00	0.0	3.116	0.054	7	2	1	1
PL.24846	PL.24845	ABC	#1/0 ACSR	7.41Y	123.5	0.10	1.45	56.07	24	1193	368	96	0.84	0.1	3.159	0.101	9	3	3	261
PL.24538	PL.24846	C	6 A (CWC)	7.41Y	123.5	0.00	1.45	2.34	2	17	5	96	0.00	0.0	3.163	0.004	0	0	0	4
PD.3502	PL.24538	C	12T	7.41Y	123.5	0.00	1.45	2.34	0	17	5	96	0.00	0.0	3.163	0.004	0	0	0	4
PL.24537	PD.3502	C	#2 ACSR	7.41Y	123.5	0.00	1.46	1.12	1	8	2	97	0.00	0.0	3.346	0.183	8	2	2	2
PL.24743	PD.3502	C	6 A (CWC)	7.41Y	123.5	0.00	1.46	1.22	1	9	3	95	0.00	0.0	3.247	0.084	4	1	1	2
PL.24540	PL.24743	C	#4 ACSR	7.41Y	123.5	0.00	1.46	0.66	1	5	1	98	0.00	0.0	3.257	0.009	0	0	0	1
PL.24539	PL.24540	C	#4 ACSR	7.41Y	123.5	0.00	1.46	0.66	1	5	1	98	0.00	0.0	3.320	0.063	5	1	1	1
PL.24844	PL.24846	ABC	#1/0 ACSR	7.41Y	123.5	0.08	1.53	54.89	24	1167	359	96	0.65	0.1	3.240	0.081	5	1	1	254
PL.24843	PL.24844	ABC	#1/0 ACSR	7.40Y	123.3	0.13	1.66	54.29	24	1153	355	96	1.03	0.1	3.370	0.131	0	0	0	252
PL.24897	PL.24843	ABC	#1/0 ACSR	7.40Y	123.3	0.09	1.75	53.48	23	1135	349	96	0.67	0.1	3.458	0.087	2	0	1	247
PL.24898	PL.24897	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.77	53.40	23	1133	347	96	0.16	0.0	3.479	0.021	0	0	0	246
PL.24967	PL.24898	A	#4 ACSR	7.39Y	123.2	0.00	1.77	1.43	1	10	3	96	0.00	0.0	3.483	0.005	0	0	0	1
PD.3494	PL.24967	A	65T	7.39Y	123.2	0.00	1.77	1.43	0	10	3	96	0.00	0.0	3.483	0.005	0	0	0	1
PL.24968	PD.3494	A	#4 ACSR	7.39Y	123.2	0.00	1.77	1.43	1	10	3	96	0.00	0.0	3.565	0.082	10	3	1	1

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Balanced Voltage Drop Report
Source: Hargett

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.24894	PL.24898	ABC	#1/0 ACSR	7.39Y	123.2	0.07	1.84	52.92	23	1122	344	96	0.51	0.0	3.548	0.069	4	1	2	245
PL.24895	PL.24894	ABC	#1/0 ACSR	7.38Y	123.1	0.08	1.92	52.72	23	1117	342	96	0.61	0.1	3.631	0.084	11	3	2	243
PL.25026	PL.24895	A	#1/0 ACSR	7.38Y	123.1	0.00	1.92	2.72	1	19	6	95	0.00	0.0	3.636	0.004	0	0	0	2
PD.3525	PL.25026	A	65T	7.38Y	123.1	0.00	1.92	2.72	0	19	6	95	0.00	0.0	3.636	0.004	0	0	0	2
PL.25027	PD.3525	A	#1/0 ACSR	7.38Y	123.1	0.00	1.92	2.72	1	19	6	95	0.00	0.0	3.683	0.047	9	3	1	2
PL.24899	PL.25027	A	#1/0 ACSR	7.38Y	123.1	0.00	1.92	1.46	1	10	3	96	0.00	0.0	3.741	0.058	10	3	1	1
PL.24979	PL.24895	C	#2 ACSR	7.38Y	123.1	0.00	1.92	0.40	0	3	1	95	0.00	0.0	3.636	0.005	0	0	0	1
PD.3500	PL.24979	C	65T	7.38Y	123.1	0.00	1.92	0.40	0	3	1	95	0.00	0.0	3.636	0.005	0	0	0	1
PL.24980	PD.3500	C	#2 ACSR	7.38Y	123.1	0.00	1.92	0.40	0	3	1	95	0.00	0.0	3.670	0.034	3	1	1	1
PL.24842	PL.24895	ABC	#1/0 ACSR	7.38Y	123.0	0.13	2.05	51.18	22	1084	332	96	0.97	0.1	3.771	0.140	6	2	1	238
PL.24977	PL.24842	C	6 A (CWC)	7.38Y	123.0	0.00	2.05	0.88	1	6	2	95	0.00	0.0	3.776	0.005	0	0	0	1
PD.3499	PL.24977	C	65T	7.38Y	123.0	0.00	2.05	0.88	0	6	2	95	0.00	0.0	3.776	0.005	0	0	0	1
PL.24978	PD.3499	C	6 A (CWC)	7.38Y	123.0	0.00	2.05	0.88	1	6	2	95	0.00	0.0	3.840	0.064	6	2	1	1
PL.24841	PL.24842	ABC	#1/0 ACSR	7.37Y	122.9	0.07	2.11	50.60	22	1071	327	96	0.48	0.0	3.842	0.070	0	0	0	236
PL.24839	PL.24841	ABC	#1/0 ACSR	7.37Y	122.8	0.09	2.20	46.91	20	992	303	96	0.60	0.1	3.943	0.102	2	1	1	214
PL.24690	PL.24839	C	#4 ACSR	7.37Y	122.8	0.00	2.20	1.15	1	8	2	97	0.00	0.0	3.948	0.005	0	0	0	1
PD.3490	PL.24690	C	65T	7.37Y	122.8	0.00	2.20	1.15	0	8	2	97	0.00	0.0	3.948	0.005	0	0	0	1
PL.24691	PD.3490	C	#4 ACSR	7.37Y	122.8	0.00	2.20	1.15	1	8	2	97	0.00	0.0	3.991	0.042	8	2	1	1
PL.24840	PL.24839	ABC	#1/0 ACSR	7.36Y	122.7	0.08	2.28	46.41	20	981	300	96	0.53	0.1	4.036	0.092	0	0	0	212
PL.25052	PL.24840	B	#1/0 ACSR	7.36Y	122.7	0.04	2.32	30.89	13	218	66	96	0.06	0.0	4.094	0.058	0	0	0	48
PD.3538	PL.25052	B	50L	7.36Y	122.7	0.00	2.32	30.89	62	218	66	96	0.00	0.0	4.094	0.058	0	0	0	48
PL.25053	PD.3538	B	#1/0 ACSR	7.36Y	122.6	0.04	2.37	30.89	13	218	66	96	0.06	0.0	4.152	0.059	2	1	1	48
PL.24885	PL.25053	B	#1/0 ACSR	7.35Y	122.6	0.07	2.43	29.08	13	205	62	96	0.09	0.0	4.249	0.096	5	1	1	44
PL.24886	PL.24885	B	#1/0 ACSR	7.35Y	122.5	0.07	2.51	28.42	12	200	61	96	0.10	0.0	4.354	0.105	0	0	0	43
PL.24795	PL.24886	B	#1/0 ACSR	7.35Y	122.4	0.08	2.58	28.42	12	200	60	96	0.10	0.0	4.463	0.109	2	1	2	43
PL.24550	PL.24795	B	#4 ACSR	7.34Y	122.4	0.00	2.59	1.56	1	11	3	96	0.00	0.0	4.559	0.097	11	3	2	2
PL.24549	PL.24795	B	#1/0 ACSR	7.34Y	122.3	0.07	2.66	26.56	12	187	56	96	0.09	0.0	4.578	0.115	0	0	0	39
PL.24796	PL.24549	B	#1/0 ACSR	7.34Y	122.3	0.05	2.71	26.56	12	187	56	96	0.06	0.0	4.655	0.078	0	0	0	39
PL.25030	PL.24796	B	6 A (CWC)	7.34Y	122.3	0.00	2.71	4.00	3	28	8	96	0.00	0.0	4.660	0.005	0	0	0	7
PD.3527	PL.25030	B	15T	7.34Y	122.3	0.00	2.71	4.00	0	28	8	96	0.00	0.0	4.660	0.005	0	0	0	7
PL.25031	PD.3527	B	6 A (CWC)	7.34Y	122.3	0.02	2.73	4.00	3	28	8	96	0.00	0.0	4.803	0.143	12	4	1	7

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Balanced Voltage Drop Report
Source: Hargett

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.24576	PL.25031	B	6 A (CWC)	7.34Y	122.3	0.01	2.74	2.25	2	16	5	95	0.00	0.0	4.930	0.127	0	0	0	6
PL.24838	PL.24576	B	6 A (CWC)	7.33Y	122.2	0.01	2.75	2.25	2	16	5	95	0.00	0.0	5.043	0.113	1	0	1	6
PL.24577	PL.24838	B	6 A (CWC)	7.33Y	122.2	0.00	2.75	0.23	0	2	0	100	0.00	0.0	5.104	0.061	2	0	2	2
PL.24891	PL.24838	B	6 A (CWC)	7.33Y	122.2	0.00	2.75	1.86	1	13	4	96	0.00	0.0	5.063	0.020	7	2	1	3
PL.24892	PL.24891	B	6 A (CWC)	7.33Y	122.2	0.00	2.76	0.84	1	6	2	95	0.00	0.0	5.137	0.074	6	2	2	2
PL.24688	PL.24796	B	6 A (CWC)	7.34Y	122.3	0.00	2.71	3.18	2	22	7	95	0.00	0.0	4.660	0.005	0	0	0	5
PD.3489	PL.24688	B	20T	7.34Y	122.3	0.00	2.71	3.18	0	22	7	95	0.00	0.0	4.660	0.005	0	0	0	5
PL.24689	PD.3489	B	6 A (CWC)	7.34Y	122.3	0.02	2.73	3.18	2	22	7	95	0.00	0.0	4.802	0.142	0	0	0	5
PL.24881	PL.24689	B	6 A (CWC)	7.34Y	122.3	0.02	2.75	2.95	2	21	6	96	0.00	0.0	4.959	0.157	6	2	1	4
PL.24882	PL.24881	B	6 A (CWC)	7.33Y	122.2	0.01	2.75	2.06	1	14	4	96	0.00	0.0	5.020	0.061	3	1	1	3
PL.24878	PL.24882	B	6 A (CWC)	7.33Y	122.2	0.01	2.76	1.62	1	11	3	96	0.00	0.0	5.089	0.069	0	0	0	2
PL.24746	PL.24878	B	6 A (CWC)	7.33Y	122.2	0.00	2.76	0.17	0	1	0	100	0.00	0.0	5.147	0.058	1	0	1	1
PL.24876	PL.24878	B	#1/0 ACSR	7.33Y	122.2	0.00	2.76	1.45	1	10	3	96	0.00	0.0	5.134	0.045	10	3	1	1
PL.24877	PL.24876	B	#1/0 ACSR	7.33Y	122.2	0.00	2.76	0.00	0	0	0	100	0.00	0.0	5.196	0.062	0	0	0	0
PL.25016	PL.24689	B	6 A (CWC)	7.34Y	122.3	0.00	2.73	0.23	0	2	0	100	0.00	0.0	4.807	0.005	0	0	0	1
PD.3520	PL.25016	B	12T	7.34Y	122.3	0.00	2.73	0.23	0	2	0	100	0.00	0.0	4.807	0.005	0	0	0	1
PL.25017	PD.3520	B	6 A (CWC)	7.34Y	122.3	0.00	2.73	0.23	0	2	0	100	0.00	0.0	4.933	0.126	0	0	0	1
PL.24797	PL.25017	B	6 A (CWC)	7.34Y	122.3	0.00	2.73	0.23	0	2	0	100	0.00	0.0	5.006	0.074	2	0	1	1
PL.24837	PL.24796	B	#1/0 ACSR	7.34Y	122.3	0.03	2.74	19.39	8	136	41	96	0.03	0.0	4.716	0.061	1	0	1	27
PL.24883	PL.24837	B	#1/0 ACSR	7.33Y	122.2	0.02	2.76	18.37	8	129	39	96	0.02	0.0	4.774	0.058	12	4	2	24
PL.24884	PL.24883	B	#1/0 ACSR	7.33Y	122.2	0.05	2.81	16.69	7	117	35	96	0.04	0.0	4.894	0.121	0	0	0	22
PL.24798	PL.24884	B	#1/0 ACSR	7.33Y	122.2	0.04	2.85	16.69	7	117	35	96	0.03	0.0	4.990	0.096	0	0	0	22
PL.24747	PL.24798	B	#1/0 ACSR	7.33Y	122.1	0.03	2.88	16.69	7	117	35	96	0.03	0.0	5.071	0.081	0	0	0	22
PL.24879	PL.24747	B	6 A (CWC)	7.33Y	122.1	0.01	2.90	4.01	3	28	8	96	0.00	0.0	5.152	0.081	1	0	1	7
PL.24880	PL.24879	B	6 A (CWC)	7.33Y	122.1	0.01	2.90	3.86	3	27	8	96	0.00	0.0	5.202	0.050	14	4	1	6
PL.24875	PL.24880	B	6 A (CWC)	7.33Y	122.1	0.00	2.91	1.87	1	13	4	96	0.00	0.0	5.259	0.056	1	0	1	5
PL.24874	PL.24875	B	6 A (CWC)	7.33Y	122.1	0.01	2.91	1.79	1	13	4	96	0.00	0.0	5.339	0.080	3	1	1	4
PL.24873	PL.24874	B	6 A (CWC)	7.32Y	122.1	0.01	2.92	1.41	1	10	3	96	0.00	0.0	5.417	0.078	0	0	0	3
PL.25044	PL.24873	B	6 A (CWC)	7.32Y	122.1	0.00	2.92	1.41	1	10	3	96	0.00	0.0	5.421	0.005	0	0	0	3
PD.3534	PL.25044	B	20T	7.32Y	122.1	0.00	2.92	1.41	0	10	3	96	0.00	0.0	5.421	0.005	0	0	0	3
PL.25045	PD.3534	B	6 A (CWC)	7.32Y	122.1	0.01	2.93	1.41	1	10	3	96	0.00	0.0	5.558	0.136	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: Hargett

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.24803	PL.25045	B	6 A (CWC)	7.32Y	122.1	0.00	2.93	1.41	1	10	3	96	0.00	0.0	5.679	0.122	10	3	3	3
PL.24684	PL.24747	B	#1/0 ACSR	7.33Y	122.1	0.00	2.88	11.93	5	84	25	96	0.00	0.0	5.075	0.005	0	0	0	14
PD.3487	PL.24684	B	20T	7.33Y	122.1	0.00	2.88	11.93	0	84	25	96	0.00	0.0	5.075	0.005	0	0	0	14
PL.24685	PD.3487	B	#1/0 ACSR	7.33Y	122.1	0.02	2.90	11.93	5	84	25	96	0.01	0.0	5.146	0.071	0	0	0	14
PL.24827	PL.24685	B	#1/0 ACSR	7.32Y	122.1	0.04	2.94	11.93	5	84	25	96	0.02	0.0	5.277	0.131	11	3	1	14
PL.24566	PL.24827	B	6 A (CWC)	7.32Y	122.1	0.00	2.94	1.42	1	10	3	96	0.00	0.0	5.358	0.081	10	3	1	1
PL.24828	PL.24827	B	#1/0 ACSR	7.32Y	122.0	0.01	2.95	8.94	4	63	19	96	0.00	0.0	5.327	0.051	0	0	0	12
PL.24569	PL.24828	B	#1/0 ACSR	7.32Y	122.0	0.03	2.98	7.41	3	52	16	96	0.01	0.0	5.480	0.153	0	0	0	11
PL.24824	PL.24569	B	#1/0 ACSR	7.32Y	122.0	0.02	2.99	7.41	3	52	16	96	0.01	0.0	5.563	0.083	0	0	0	11
PL.24825	PL.24824	B	#1/0 ACSR	7.32Y	122.0	0.02	3.02	6.19	3	43	13	96	0.01	0.0	5.706	0.143	0	0	0	10
PL.24801	PL.24825	B	#1/0 ACSR	7.32Y	122.0	0.01	3.03	6.19	3	43	13	96	0.00	0.0	5.785	0.078	0	0	0	10
PL.24694	PL.24801	B	6 A (CWC)	7.32Y	122.0	0.00	3.03	2.20	2	15	5	95	0.00	0.0	5.789	0.005	0	0	0	4
PD.3492	PL.24694	B	12T	7.32Y	122.0	0.00	3.03	2.20	0	15	5	95	0.00	0.0	5.789	0.005	0	0	0	4
PL.24695	PD.3492	B	6 A (CWC)	7.32Y	122.0	0.00	3.03	2.20	2	15	5	95	0.00	0.0	5.845	0.056	8	2	1	4
PL.24890	PL.24695	B	6 A (CWC)	7.32Y	122.0	0.00	3.03	1.13	1	8	2	97	0.00	0.0	5.909	0.063	8	2	3	3
PL.24571	PL.24801	B	#4 ACSR	7.32Y	122.0	0.00	3.03	0.61	0	4	1	97	0.00	0.0	5.835	0.050	4	1	1	1
PL.24888	PL.24801	B	#1/0 ACSR	7.32Y	122.0	0.01	3.04	3.37	1	24	7	96	0.00	0.0	5.951	0.167	10	3	1	5
PL.24889	PL.24888	B	#1/0 ACSR	7.32Y	122.0	0.00	3.04	2.01	1	14	4	96	0.00	0.0	5.980	0.028	0	0	0	4
PL.24572	PL.24889	B	#4 ACSR	7.32Y	122.0	0.00	3.04	1.73	1	12	4	95	0.00	0.0	6.071	0.091	12	4	2	2
PL.24748	PL.24889	B	#1/0 ACSR	7.32Y	122.0	0.00	3.04	0.27	0	2	1	89	0.00	0.0	6.103	0.124	0	0	0	2
PL.24802	PL.24748	B	#1/0 ACSR	7.32Y	122.0	0.00	3.04	0.27	0	2	1	89	0.00	0.0	6.291	0.187	2	1	2	2
PL.24570	PL.24824	B	#4 ACSR	7.32Y	122.0	0.00	3.00	1.23	1	9	3	95	0.00	0.0	5.623	0.059	9	3	1	1
PL.24567	PL.24828	B	6 A (CWC)	7.32Y	122.0	0.00	2.95	0.00	0	0	0	100	0.00	0.0	5.376	0.049	0	0	0	0
PL.24568	PL.24828	B	#4 ACSR	7.32Y	122.0	0.01	2.96	1.53	1	11	3	96	0.00	0.0	5.475	0.147	11	3	1	1
PL.24565	PL.24747	B	#4 ACSR	7.33Y	122.1	0.00	2.88	0.75	1	5	2	93	0.00	0.0	5.133	0.062	5	2	1	1
PL.24686	PL.24837	B	#4 ACSR	7.34Y	122.3	0.00	2.74	0.81	1	6	2	95	0.00	0.0	4.720	0.005	0	0	0	2
PD.3488	PL.24686	B	20T	7.34Y	122.3	0.00	2.74	0.81	0	6	2	95	0.00	0.0	4.720	0.005	0	0	0	2
PL.24687	PD.3488	B	#4 ACSR	7.34Y	122.3	0.00	2.74	0.81	1	6	2	95	0.00	0.0	4.772	0.051	6	2	2	2
PL.24692	PL.25053	B	#4 ACSR	7.36Y	122.6	0.00	2.37	1.54	1	11	3	96	0.00	0.0	4.157	0.005	0	0	0	3
PD.3491	PL.24692	B	65T	7.36Y	122.6	0.00	2.37	1.54	0	11	3	96	0.00	0.0	4.157	0.005	0	0	0	3
PL.24693	PD.3491	B	#4 ACSR	7.36Y	122.6	0.01	2.37	1.54	1	11	3	96	0.00	0.0	4.286	0.130	2	1	1	3

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Balanced Voltage Drop Report
Source: Hargett

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.24548	PL.24693	B	#4 ACSR	7.36Y	122.6	0.00	2.38	1.16	1	8	2	97	0.00	0.0	4.380	0.094	8	2	1	1
PL.24547	PL.24693	B	#1/0 ACSR	7.36Y	122.6	0.00	2.37	0.03	0	0	0	100	0.00	0.0	4.401	0.114	0	0	1	1
PL.24887	PL.24840	ABC	#1/0 ACSR	7.36Y	122.7	0.05	2.33	36.12	16	763	233	96	0.28	0.0	4.116	0.080	10	3	2	164
PL.25058	PL.24887	ABC	#1/0 ACSR	7.36Y	122.6	0.04	2.37	35.64	15	753	230	96	0.22	0.0	4.182	0.066	0	0	0	162
PD.3541	PL.25058	ABC	50L	7.36Y	122.6	0.00	2.37	35.64	71	752	230	96	0.00	0.0	4.182	0.066	0	0	0	162
PL.25059	PD.3541	ABC	#1/0 ACSR	7.35Y	122.5	0.11	2.48	35.64	15	752	230	96	0.56	0.1	4.347	0.165	0	0	0	162
PL.24804	PL.25059	ABC	#1/0 ACSR	7.34Y	122.4	0.11	2.59	35.64	15	752	229	96	0.55	0.1	4.509	0.162	0	0	0	162
PL.24805	PL.24804	ABC	#1/0 ACSR	7.34Y	122.3	0.09	2.67	35.64	15	751	229	96	0.44	0.1	4.639	0.131	0	0	0	162
PL.24749	PL.24805	ABC	#1/0 ACSR	7.34Y	122.3	0.02	2.70	33.94	15	715	217	96	0.12	0.0	4.680	0.040	0	0	0	156
PL.24807	PL.24749	ABC	#1/0 ACSR	7.33Y	122.2	0.10	2.80	33.94	15	715	217	96	0.52	0.1	4.848	0.169	0	0	0	156
PL.24934	PL.24807	ABC	#1/0 ACSR	7.33Y	122.2	0.04	2.84	33.46	15	704	214	96	0.20	0.0	4.915	0.067	2	0	1	154
PL.24935	PL.24934	ABC	#1/0 ACSR	7.32Y	122.1	0.10	2.94	33.38	15	702	213	96	0.47	0.1	5.073	0.158	2	0	1	153
PL.25060	PL.24935	ABC	#1/0 ACSR	7.32Y	122.1	0.01	2.95	33.31	14	700	212	96	0.04	0.0	5.086	0.013	0	0	0	152
PL.25061	PL.25060	ABC	#1/0 ACSR	7.32Y	122.0	0.05	3.00	33.31	14	700	212	96	0.24	0.0	5.168	0.082	0	0	0	152
PL.24753	PL.25061	ABC	#1/0 ACSR	7.32Y	122.0	0.04	3.04	21.44	9	451	137	96	0.13	0.0	5.270	0.102	0	0	0	103
PL.24987	PL.24753	A	#1/0 ACSR	7.32Y	122.0	0.00	3.04	0.00	0	0	0	100	0.00	0.0	5.275	0.005	0	0	0	1
PD.3506	PL.24987	A	20T	7.32Y	122.0	0.00	3.04	0.00	0	0	0	100	0.00	0.0	5.275	0.005	0	0	0	1
PL.24988	PD.3506	A	#1/0 ACSR	7.32Y	122.0	0.00	3.04	0.00	0	0	0	100	0.00	0.0	5.349	0.074	0	0	1	1
PL.24931	PL.24753	ABC	#1/0 ACSR	7.32Y	122.0	0.01	3.05	21.44	9	451	136	96	0.03	0.0	5.296	0.026	8	2	1	102
PL.24932	PL.24931	ABC	#1/0 ACSR	7.31Y	121.9	0.05	3.10	21.08	9	443	134	96	0.15	0.0	5.426	0.130	0	0	0	101
PL.24985	PL.24932	A	6 A (CWC)	7.31Y	121.9	0.00	3.10	1.15	1	8	2	97	0.00	0.0	5.431	0.005	0	0	0	2
PD.3505	PL.24985	A	20T	7.31Y	121.9	0.00	3.10	1.15	0	8	2	97	0.00	0.0	5.431	0.005	0	0	0	2
PL.24986	PD.3505	A	6 A (CWC)	7.31Y	121.9	0.00	3.10	1.15	1	8	2	97	0.00	0.0	5.455	0.024	8	2	2	2
PL.24907	PL.24932	ABC	#1/0 ACSR	7.31Y	121.9	0.05	3.14	20.69	9	435	132	96	0.14	0.0	5.553	0.127	3	1	1	99
PL.24908	PL.24907	ABC	#1/0 ACSR	7.31Y	121.8	0.03	3.18	20.56	9	432	131	96	0.10	0.0	5.640	0.087	0	0	1	98
PL.24906	PL.24908	ABC	#1/0 ACSR	7.31Y	121.8	0.03	3.20	20.55	9	431	130	96	0.08	0.0	5.710	0.070	10	3	3	97
PL.24983	PL.24906	A	6 A (CWC)	7.31Y	121.8	0.00	3.20	2.04	1	14	4	96	0.00	0.0	5.715	0.005	0	0	0	5
PD.3504	PL.24983	A	20T	7.31Y	121.8	0.00	3.20	2.04	0	14	4	96	0.00	0.0	5.715	0.005	0	0	0	5
PL.24984	PD.3504	A	6 A (CWC)	7.31Y	121.8	0.00	3.21	2.04	1	14	4	96	0.00	0.0	5.747	0.032	2	1	1	5
PL.24905	PL.24984	A	6 A (CWC)	7.31Y	121.8	0.00	3.21	1.78	1	12	4	95	0.00	0.0	5.812	0.066	4	1	1	4
PL.24904	PL.24905	A	6 A (CWC)	7.31Y	121.8	0.00	3.21	1.27	1	9	3	95	0.00	0.0	5.874	0.062	7	2	1	3

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Balanced Voltage Drop Report
Source: Hargett

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.24624	PL.24904	A	#4 ACSR	7.31Y	121.8	0.00	3.21	0.29	0	2	1	89	0.00	0.0	5.942	0.068	2	1	2	2
PL.24625	PL.24624	A	#4 ACSR	7.31Y	121.8	0.00	3.21	0.00	0	0	0	100	0.00	0.0	5.995	0.053	0	0	0	0
PL.24585	PL.24906	ABC	#1/0 ACSR	7.31Y	121.8	0.02	3.23	19.41	8	407	123	96	0.07	0.0	5.776	0.066	0	0	0	89
PL.24757	PL.24585	ABC	#1/0 ACSR	7.30Y	121.7	0.04	3.27	16.96	7	356	108	96	0.11	0.0	5.920	0.144	0	0	0	78
PL.24813	PL.24757	ABC	#1/0 ACSR	7.30Y	121.7	0.03	3.30	16.96	7	356	108	96	0.07	0.0	6.015	0.095	0	0	0	78
PL.24950	PL.24813	ABC	#1/0 ACSR	7.30Y	121.7	0.01	3.31	16.96	7	356	108	96	0.02	0.0	6.039	0.024	2	1	1	78
PL.24951	PL.24950	ABC	#1/0 ACSR	7.30Y	121.7	0.02	3.33	16.86	7	354	107	96	0.05	0.0	6.111	0.071	3	1	2	77
PL.24949	PL.24951	ABC	#1/0 ACSR	7.30Y	121.6	0.05	3.38	16.70	7	350	106	96	0.11	0.0	6.265	0.154	0	0	0	75
PL.25007	PL.24949	A	6 A (CWC)	7.30Y	121.6	0.00	3.38	1.87	1	13	4	96	0.00	0.0	6.269	0.005	0	0	0	2
PD.3516	PL.25007	A	20T	7.30Y	121.6	0.00	3.38	1.87	0	13	4	96	0.00	0.0	6.269	0.005	0	0	0	2
PL.25008	PD.3516	A	6 A (CWC)	7.30Y	121.6	0.00	3.38	1.87	1	13	4	96	0.00	0.0	6.347	0.078	13	4	2	2
PL.24759	PL.24949	ABC	#1/0 ACSR	7.30Y	121.6	0.04	3.41	16.08	7	337	102	96	0.09	0.0	6.392	0.128	0	0	0	73
PL.25005	PL.24759	C	6 A (CWC)	7.30Y	121.6	0.00	3.41	1.19	1	8	3	94	0.00	0.0	6.397	0.005	0	0	0	3
PD.3515	PL.25005	C	20T	7.30Y	121.6	0.00	3.41	1.19	0	8	3	94	0.00	0.0	6.397	0.005	0	0	0	3
PL.25006	PD.3515	C	6 A (CWC)	7.29Y	121.6	0.01	3.42	1.19	1	8	3	94	0.00	0.0	6.530	0.133	0	0	1	3
PL.24586	PL.25006	C	#4 ACSR	7.29Y	121.6	0.00	3.42	1.18	1	8	2	97	0.00	0.0	6.605	0.075	8	2	1	1
PL.24587	PL.25006	C	#4 ACSR	7.29Y	121.6	0.00	3.42	0.01	0	0	0	100	0.00	0.0	6.614	0.084	0	0	1	1
PL.24947	PL.24759	ABC	#1/0 ACSR	7.29Y	121.6	0.02	3.43	15.24	7	319	96	96	0.03	0.0	6.449	0.057	13	4	1	69
PL.24948	PL.24947	ABC	#1/0 ACSR	7.29Y	121.6	0.00	3.43	14.61	6	306	92	96	0.01	0.0	6.463	0.014	0	0	0	68
PL.24760	PL.24948	ABC	#1/0 ACSR	7.29Y	121.5	0.03	3.46	14.42	6	302	91	96	0.06	0.0	6.575	0.112	0	0	0	67
PL.24761	PL.24760	ABC	#1/0 ACSR	7.29Y	121.5	0.02	3.48	14.18	6	297	90	96	0.05	0.0	6.660	0.085	0	0	0	66
PL.24762	PL.24761	ABC	#1/0 ACSR	7.29Y	121.5	0.04	3.53	14.02	6	294	89	96	0.09	0.0	6.826	0.166	0	0	0	65
PL.24997	PL.24762	A	6 A (CWC)	7.29Y	121.5	0.00	3.53	0.64	0	4	1	97	0.00	0.0	6.831	0.005	0	0	0	2
PD.3511	PL.24997	A	20T	7.29Y	121.5	0.00	3.53	0.64	0	4	1	97	0.00	0.0	6.831	0.005	0	0	0	2
PL.24998	PD.3511	A	6 A (CWC)	7.29Y	121.5	0.00	3.53	0.64	0	4	1	97	0.00	0.0	6.884	0.053	0	0	1	2
PL.24946	PL.24998	A	6 A (CWC)	7.29Y	121.5	0.00	3.53	0.60	0	4	1	97	0.00	0.0	6.927	0.043	4	1	1	1
PL.24763	PL.24762	ABC	#1/0 ACSR	7.29Y	121.5	0.02	3.55	12.96	6	271	82	96	0.04	0.0	6.912	0.086	0	0	0	60
PL.24943	PL.24763	ABC	#1/0 ACSR	7.29Y	121.4	0.02	3.56	12.57	5	263	79	96	0.03	0.0	6.981	0.069	3	1	1	59
PL.24944	PL.24943	ABC	#1/0 ACSR	7.29Y	121.4	0.02	3.58	12.43	5	260	78	96	0.03	0.0	7.052	0.072	0	0	0	58
PL.24938	PL.24944	B	6 A (CWC)	7.28Y	121.4	0.05	3.62	22.53	16	157	47	96	0.05	0.0	7.097	0.045	7	2	1	34
PL.25054	PL.24938	B	6 A (CWC)	7.28Y	121.4	0.00	3.63	21.46	15	150	45	96	0.00	0.0	7.100	0.003	0	0	0	33

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

Balanced Voltage Drop Report
Source: Hargett

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.3539	PL.25054	B	50L	7.28Y	121.4	0.00	3.63	21.46	43	150	45	96	0.00	0.0	7.100	0.003	0	0	0	33
PL.25055	PD.3539	B	6 A (CWC)	7.28Y	121.3	0.08	3.71	21.46	15	150	45	96	0.09	0.1	7.184	0.084	0	0	0	33
PL.24590	PL.25055	B	6 A (CWC)	7.28Y	121.3	0.00	3.71	0.78	1	5	2	93	0.00	0.0	7.264	0.080	5	2	1	1
PL.24831	PL.25055	B	6 A (CWC)	7.27Y	121.2	0.11	3.82	20.68	15	144	43	96	0.12	0.1	7.305	0.121	10	3	1	32
PL.24993	PL.24831	B	#1/0 ACSR	7.27Y	121.2	0.00	3.82	1.19	1	8	2	97	0.00	0.0	7.310	0.005	0	0	0	2
PD.3509	PL.24993	B	20T	7.27Y	121.2	0.00	3.82	1.19	0	8	2	97	0.00	0.0	7.310	0.005	0	0	0	2
PL.24994	PD.3509	B	#1/0 ACSR	7.27Y	121.2	0.00	3.82	1.19	1	8	2	97	0.00	0.0	7.337	0.027	8	2	2	2
PL.24591	PL.24831	B	6 A (CWC)	7.27Y	121.2	0.00	3.82	0.46	0	3	1	95	0.00	0.0	7.365	0.059	3	1	1	2
PL.24592	PL.24591	B	#1/0 ACSR	7.27Y	121.2	0.00	3.82	0.02	0	0	0	100	0.00	0.0	7.407	0.042	0	0	1	1
PL.24832	PL.24831	B	6 A (CWC)	7.27Y	121.1	0.07	3.89	17.63	13	123	37	96	0.07	0.1	7.392	0.087	0	0	0	27
PL.24593	PL.24832	B	6 A (CWC)	7.27Y	121.1	0.02	3.91	2.96	2	21	6	96	0.00	0.0	7.573	0.182	8	2	1	4
PL.24594	PL.24593	B	6 A (CWC)	7.26Y	121.1	0.01	3.92	1.79	1	12	4	95	0.00	0.0	7.668	0.095	0	0	0	3
PL.24767	PL.24594	B	6 A (CWC)	7.26Y	121.1	0.01	3.93	1.79	1	12	4	95	0.00	0.0	7.783	0.114	0	0	0	3
PL.24814	PL.24767	B	6 A (CWC)	7.26Y	121.1	0.01	3.94	1.79	1	12	4	95	0.00	0.0	7.883	0.100	0	0	0	3
PL.24936	PL.24814	B	6 A (CWC)	7.26Y	121.1	0.00	3.94	1.79	1	12	4	95	0.00	0.0	7.959	0.077	6	2	1	3
PL.24937	PL.24936	B	6 A (CWC)	7.26Y	121.1	0.01	3.95	0.93	1	7	2	96	0.00	0.0	8.094	0.135	0	0	0	2
PL.24815	PL.24937	B	6 A (CWC)	7.26Y	121.0	0.01	3.95	0.93	1	7	2	96	0.00	0.0	8.214	0.120	0	0	0	2
PL.24816	PL.24815	B	6 A (CWC)	7.26Y	121.0	0.00	3.96	0.93	1	7	2	96	0.00	0.0	8.296	0.082	0	0	0	2
PL.24768	PL.24816	B	6 A (CWC)	7.26Y	121.0	0.00	3.96	0.36	0	2	1	89	0.00	0.0	8.439	0.143	2	1	1	1
PL.24596	PL.24816	B	6 A (CWC)	7.26Y	121.0	0.00	3.96	0.58	0	4	1	97	0.00	0.0	8.347	0.051	4	1	1	1
PL.24833	PL.24832	B	6 A (CWC)	7.26Y	121.0	0.08	3.97	14.67	10	102	31	96	0.06	0.1	7.513	0.121	10	3	1	23
PL.24829	PL.24833	B	#2 ACSR	7.26Y	121.0	0.00	3.97	1.29	1	9	3	95	0.00	0.0	7.581	0.068	0	0	0	2
PL.24597	PL.24829	B	#2 ACSR	7.26Y	121.0	0.00	3.97	0.24	0	2	1	89	0.00	0.0	7.595	0.014	2	1	1	1
PL.24830	PL.24829	B	#2 ACSR	7.26Y	121.0	0.00	3.97	1.05	1	7	2	96	0.00	0.0	7.639	0.058	7	2	1	1
PL.24834	PL.24833	B	6 A (CWC)	7.26Y	121.0	0.03	4.00	11.91	9	83	25	96	0.02	0.0	7.570	0.057	0	0	0	20
PL.24598	PL.24834	B	#1/0 ACSR	7.26Y	121.0	0.00	4.00	0.93	0	6	2	95	0.00	0.0	7.615	0.045	6	2	1	1
PL.24769	PL.24834	B	6 A (CWC)	7.26Y	121.0	0.04	4.04	10.97	8	76	23	96	0.02	0.0	7.644	0.074	0	0	0	19
PL.24599	PL.24769	B	6 A (CWC)	7.26Y	121.0	0.00	4.04	0.00	0	0	0	100	0.00	0.0	7.699	0.055	0	0	1	1
PL.24660	PL.24769	B	6 A (CWC)	7.26Y	120.9	0.03	4.07	10.97	8	76	23	96	0.02	0.0	7.713	0.069	11	3	1	18
PL.24661	PL.24660	B	6 A (CWC)	7.25Y	120.9	0.05	4.12	9.40	7	65	20	96	0.02	0.0	7.828	0.115	0	0	0	17
PL.24600	PL.24661	B	#4 ACSR	7.25Y	120.9	0.00	4.12	0.86	1	6	2	95	0.00	0.0	7.902	0.073	6	2	1	1

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Balanced Voltage Drop Report
Source: Hargett

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.24658	PL.24661	B	6 A (CWC)	7.25Y	120.8	0.04	4.16	8.54	6	59	18	96	0.02	0.0	7.940	0.112	4	1	1	16
PL.24659	PL.24658	B	6 A (CWC)	7.25Y	120.8	0.03	4.19	8.00	6	56	17	96	0.01	0.0	8.014	0.074	0	0	0	15
PL.24835	PL.24659	B	6 A (CWC)	7.25Y	120.8	0.03	4.22	8.00	6	56	17	96	0.01	0.0	8.108	0.093	2	1	1	15
PL.24601	PL.24835	B	#1/0 ACSR	7.25Y	120.8	0.00	4.22	0.82	0	6	2	95	0.00	0.0	8.137	0.029	6	2	1	1
PL.24836	PL.24835	B	6 A (CWC)	7.25Y	120.8	0.01	4.24	6.91	5	48	14	96	0.00	0.0	8.149	0.041	0	0	1	13
PL.24602	PL.24836	B	#4 ACSR	7.24Y	120.7	0.02	4.26	6.91	5	48	14	96	0.01	0.0	8.220	0.072	12	4	2	12
PL.24603	PL.24602	B	6 A (CWC)	7.24Y	120.7	0.01	4.27	5.19	4	36	11	96	0.00	0.0	8.266	0.046	0	0	0	10
PL.24770	PL.24603	B	6 A (CWC)	7.24Y	120.7	0.00	4.27	0.53	0	4	1	97	0.00	0.0	8.339	0.072	4	1	1	1
PL.24589	PL.24603	B	6 A (CWC)	7.24Y	120.7	0.02	4.29	4.67	3	32	10	95	0.00	0.0	8.350	0.084	0	0	0	9
PL.24817	PL.24589	B	6 A (CWC)	7.24Y	120.7	0.02	4.31	4.67	3	32	10	95	0.01	0.0	8.445	0.095	0	0	0	9
PL.24964	PL.24817	B	6 A (CWC)	7.24Y	120.7	0.01	4.32	4.67	3	32	10	95	0.00	0.0	8.512	0.067	8	2	1	9
PL.24965	PL.24964	B	6 A (CWC)	7.24Y	120.7	0.00	4.32	3.57	3	25	7	96	0.00	0.0	8.540	0.028	0	0	0	8
PL.24604	PL.24965	B	#4 ACSR	7.24Y	120.7	0.00	4.32	0.19	0	1	0	100	0.00	0.0	8.636	0.096	1	0	1	1
PL.24771	PL.24965	B	6 A (CWC)	7.24Y	120.7	0.02	4.35	3.38	2	23	7	96	0.00	0.0	8.701	0.161	0	0	0	7
PL.24607	PL.24771	B	#4 ACSR	7.24Y	120.7	0.00	4.35	0.55	0	4	1	97	0.00	0.0	8.744	0.043	4	1	2	2
PL.24606	PL.24771	B	#1/0 ACSR	7.24Y	120.7	0.00	4.35	0.12	0	1	0	100	0.00	0.0	8.768	0.068	1	0	1	1
PL.24605	PL.24771	B	#1/0 ACSR	7.24Y	120.7	0.00	4.35	0.43	0	3	1	95	0.00	0.0	8.740	0.040	3	1	1	1
PL.24962	PL.24771	B	6 A (CWC)	7.24Y	120.6	0.01	4.36	2.27	2	16	5	95	0.00	0.0	8.884	0.183	12	4	1	3
PL.24963	PL.24962	B	6 A (CWC)	7.24Y	120.6	0.00	4.36	0.55	0	4	1	97	0.00	0.0	8.901	0.017	1	0	1	2
PL.24608	PL.24963	B	#4 ACSR	7.24Y	120.6	0.00	4.36	0.39	0	3	1	95	0.00	0.0	8.977	0.076	3	1	1	1
PL.25056	PL.24944	C	6 A (CWC)	7.29Y	121.4	0.00	3.58	14.75	11	103	31	96	0.00	0.0	7.055	0.003	0	0	0	24
PD.3540	PL.25056	C	50L	7.29Y	121.4	0.00	3.58	14.75	30	103	31	96	0.00	0.0	7.055	0.003	0	0	0	24
PL.25057	PD.3540	C	6 A (CWC)	7.28Y	121.3	0.10	3.68	14.75	11	103	31	96	0.08	0.1	7.205	0.150	0	0	0	24
PL.24826	PL.25057	C	6 A (CWC)	7.27Y	121.2	0.08	3.76	13.65	10	95	29	96	0.06	0.1	7.336	0.131	2	0	1	22
PL.24941	PL.24826	C	6 A (CWC)	7.27Y	121.2	0.06	3.83	9.61	7	67	20	96	0.03	0.0	7.488	0.152	8	3	2	16
PL.24942	PL.24941	C	6 A (CWC)	7.27Y	121.1	0.03	3.86	8.41	6	59	18	96	0.01	0.0	7.579	0.091	10	3	2	14
PL.24614	PL.24942	C	6 A (CWC)	7.27Y	121.1	0.00	3.86	0.47	0	3	1	95	0.00	0.0	7.683	0.104	3	1	1	1
PL.24823	PL.24942	C	6 A (CWC)	7.27Y	121.1	0.02	3.88	6.53	5	45	14	95	0.01	0.0	7.647	0.068	0	0	0	11
PL.24939	PL.24823	C	6 A (CWC)	7.27Y	121.1	0.03	3.91	5.59	4	39	12	96	0.01	0.0	7.807	0.161	18	5	1	10
PL.24940	PL.24939	C	6 A (CWC)	7.26Y	121.1	0.01	3.92	3.01	2	21	6	96	0.00	0.0	7.895	0.088	0	0	0	9
PL.24616	PL.24940	C	#4 ACSR	7.26Y	121.1	0.00	3.92	0.16	0	1	0	100	0.00	0.0	7.927	0.031	1	0	4	4

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Balanced Voltage Drop Report
Source: Hargett

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.24766	PL.24940	C	6 A (CWC)	7.26Y	121.1	0.02	3.94	2.68	2	19	6	95	0.00	0.0	8.035	0.140	0	0	0	4
PL.24617	PL.24766	C	6 A (CWC)	7.26Y	121.1	0.00	3.94	0.43	0	3	1	95	0.00	0.0	8.095	0.061	3	1	1	1
PL.24619	PL.24766	C	#4 ACSR	7.26Y	121.1	0.00	3.95	1.13	1	8	2	97	0.00	0.0	8.193	0.158	8	2	1	1
PL.24618	PL.24766	C	#4 ACSR	7.26Y	121.1	0.00	3.94	1.12	1	8	2	97	0.00	0.0	8.077	0.042	8	2	2	2
PL.24615	PL.24940	C	6 A (CWC)	7.26Y	121.1	0.00	3.92	0.18	0	1	0	100	0.00	0.0	7.981	0.086	1	0	1	1
PL.24613	PL.24823	C	#4 ACSR	7.27Y	121.1	0.00	3.88	0.94	1	7	2	96	0.00	0.0	7.665	0.019	7	2	1	1
PL.24610	PL.24826	C	6 A (CWC)	7.27Y	121.2	0.01	3.78	3.81	3	27	8	96	0.00	0.0	7.420	0.084	0	0	0	5
PL.24611	PL.24610	C	6 A (CWC)	7.27Y	121.2	0.00	3.78	1.95	1	14	4	96	0.00	0.0	7.470	0.050	14	4	1	1
PL.24764	PL.24610	C	6 A (CWC)	7.27Y	121.2	0.00	3.78	1.86	1	13	4	96	0.00	0.0	7.467	0.047	2	1	1	4
PL.24643	PL.24764	C	#1/0 ACSR	7.27Y	121.2	0.00	3.79	1.60	1	11	3	96	0.00	0.0	7.561	0.094	0	0	0	3
PL.24612	PL.24643	C	#1/0 ACSR	7.27Y	121.2	0.00	3.79	0.39	0	3	1	95	0.00	0.0	7.618	0.058	3	1	1	1
PL.24765	PL.24643	C	#1/0 ACSR	7.27Y	121.2	0.00	3.79	1.21	1	8	3	94	0.00	0.0	7.689	0.128	8	3	2	2
PL.24609	PL.25057	C	6 A (CWC)	7.28Y	121.3	0.00	3.69	1.10	1	8	2	97	0.00	0.0	7.302	0.097	1	0	1	2
PL.24642	PL.24609	C	#1/0 ACSR	7.28Y	121.3	0.00	3.69	0.97	0	7	2	96	0.00	0.0	7.383	0.081	7	2	1	1
PL.24995	PL.24763	C	6 A (CWC)	7.29Y	121.5	0.00	3.55	1.16	1	8	2	97	0.00	0.0	6.916	0.005	0	0	0	1
PD.3510	PL.24995	C	20T	7.29Y	121.5	0.00	3.55	1.16	0	8	2	97	0.00	0.0	6.916	0.005	0	0	0	1
PL.24996	PD.3510	C	6 A (CWC)	7.29Y	121.5	0.00	3.55	1.16	1	8	2	97	0.00	0.0	6.968	0.051	8	2	1	1
PL.25038	PL.24762	C	6 A (CWC)	7.29Y	121.5	0.00	3.53	2.55	2	18	5	96	0.00	0.0	6.831	0.005	0	0	0	3
PD.3531	PL.25038	C	20T	7.29Y	121.5	0.00	3.53	2.55	0	18	5	96	0.00	0.0	6.831	0.005	0	0	0	3
PL.25039	PD.3531	C	6 A (CWC)	7.29Y	121.5	0.01	3.53	2.55	2	18	5	96	0.00	0.0	6.877	0.047	0	0	0	3
PL.24945	PL.25039	C	6 A (CWC)	7.29Y	121.5	0.01	3.54	2.55	2	18	5	96	0.00	0.0	6.991	0.114	5	2	1	3
PL.24588	PL.24945	C	#1/0 ACSR	7.29Y	121.5	0.00	3.55	1.78	1	12	4	95	0.00	0.0	7.039	0.047	12	4	2	2
PL.24999	PL.24761	A	6 A (CWC)	7.29Y	121.5	0.00	3.48	0.47	0	3	1	95	0.00	0.0	6.665	0.005	0	0	0	1
PD.3512	PL.24999	A	20T	7.29Y	121.5	0.00	3.48	0.47	0	3	1	95	0.00	0.0	6.665	0.005	0	0	0	1
PL.25000	PD.3512	A	6 A (CWC)	7.29Y	121.5	0.00	3.48	0.47	0	3	1	95	0.00	0.0	6.687	0.022	3	1	1	1
PL.25001	PL.24760	C	6 A (CWC)	7.29Y	121.5	0.00	3.46	0.74	1	5	2	93	0.00	0.0	6.580	0.005	0	0	0	1
PD.3513	PL.25001	C	20T	7.29Y	121.5	0.00	3.46	0.74	0	5	2	93	0.00	0.0	6.580	0.005	0	0	0	1
PL.25002	PD.3513	C	6 A (CWC)	7.29Y	121.5	0.00	3.46	0.74	1	5	2	93	0.00	0.0	6.606	0.026	5	2	1	1
PL.25003	PL.24948	C	#1/0 ACSR	7.29Y	121.6	0.00	3.43	0.56	0	4	1	97	0.00	0.0	6.467	0.005	0	0	0	1
PD.3514	PL.25003	C	20T	7.29Y	121.6	0.00	3.43	0.56	0	4	1	97	0.00	0.0	6.467	0.005	0	0	0	1
PL.25004	PD.3514	C	#1/0 ACSR	7.29Y	121.6	0.00	3.43	0.56	0	4	1	97	0.00	0.0	6.514	0.047	4	1	1	1

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Balanced Voltage Drop Report
Source: Hargett

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.25036	PL.24759	A	6 A (CWC)	7.30Y	121.6	0.00	3.41	1.31	1	9	3	95	0.00	0.0	6.397	0.005	0	0	0	1
PD.3530	PL.25036	A	20T	7.30Y	121.6	0.00	3.41	1.31	0	9	3	95	0.00	0.0	6.397	0.005	0	0	0	1
PL.25037	PD.3530	A	6 A (CWC)	7.29Y	121.6	0.01	3.42	1.31	1	9	3	95	0.00	0.0	6.574	0.177	9	3	1	1
PL.25012	PL.24585	C	6 A (CWC)	7.31Y	121.8	0.00	3.23	4.65	3	33	10	96	0.00	0.0	5.781	0.005	0	0	0	8
PD.3517	PL.25012	C	20T	7.31Y	121.8	0.00	3.23	4.65	0	33	10	96	0.00	0.0	5.781	0.005	0	0	0	8
PL.25013	PD.3517	C	6 A (CWC)	7.31Y	121.8	0.01	3.23	4.65	3	33	10	96	0.00	0.0	5.816	0.035	0	0	0	8
PL.24758	PL.25013	C	6 A (CWC)	7.31Y	121.8	0.00	3.24	0.59	0	4	1	97	0.00	0.0	5.870	0.054	4	1	2	2
PL.24955	PL.25013	C	#2 ACSR	7.31Y	121.8	0.00	3.24	4.06	2	28	9	95	0.00	0.0	5.828	0.012	9	3	1	6
PL.24956	PL.24955	C	#2 ACSR	7.31Y	121.8	0.00	3.24	2.84	2	20	6	96	0.00	0.0	5.897	0.069	10	3	1	5
PL.24623	PL.24956	C	6 A (CWC)	7.31Y	121.8	0.00	3.24	1.37	1	10	3	96	0.00	0.0	5.957	0.060	4	1	2	4
PL.24953	PL.24623	C	#4 ACSR	7.31Y	121.8	0.00	3.25	0.83	1	6	2	95	0.00	0.0	6.025	0.067	1	0	1	2
PL.24954	PL.24953	C	#4 ACSR	7.31Y	121.8	0.00	3.25	0.70	1	5	1	98	0.00	0.0	6.083	0.058	5	1	1	1
PL.25034	PL.24585	A	6 A (CWC)	7.31Y	121.8	0.00	3.23	2.69	2	19	6	95	0.00	0.0	5.781	0.004	0	0	0	3
PD.3529	PL.25034	A	20T	7.31Y	121.8	0.00	3.23	2.69	0	19	6	95	0.00	0.0	5.781	0.004	0	0	0	3
PL.25035	PD.3529	A	6 A (CWC)	7.31Y	121.8	0.00	3.23	2.69	2	19	6	95	0.00	0.0	5.843	0.062	19	6	2	3
PL.24952	PL.25035	A	6 A (CWC)	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	5.930	0.087	0	0	0	1
PL.24812	PL.24952	A	6 A (CWC)	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	6.040	0.110	0	0	1	1
PL.25032	PL.25061	A	6 A (CWC)	7.32Y	122.0	0.00	3.00	4.18	3	29	9	96	0.00	0.0	5.173	0.004	0	0	0	6
PD.3528	PL.25032	A	20T	7.32Y	122.0	0.00	3.00	4.18	0	29	9	96	0.00	0.0	5.173	0.004	0	0	0	6
PL.25033	PD.3528	A	6 A (CWC)	7.32Y	122.0	0.01	3.01	4.18	3	29	9	96	0.00	0.0	5.243	0.071	0	0	0	6
PL.24579	PL.25033	A	6 A (CWC)	7.32Y	122.0	0.01	3.02	3.76	3	26	8	96	0.00	0.0	5.322	0.079	5	2	1	5
PL.24583	PL.24579	A	#4 ACSR	7.32Y	122.0	0.01	3.03	3.01	2	21	6	96	0.00	0.0	5.364	0.041	0	0	0	4
PL.24808	PL.24583	A	#4 ACSR	7.32Y	121.9	0.03	3.05	3.01	2	21	6	96	0.00	0.0	5.551	0.188	0	0	0	4
PL.24581	PL.24808	A	#4 ACSR	7.32Y	121.9	0.00	3.06	1.33	1	9	3	95	0.00	0.0	5.662	0.111	9	3	1	1
PL.24754	PL.24808	A	#4 ACSR	7.32Y	121.9	0.01	3.06	1.67	1	12	4	95	0.00	0.0	5.677	0.126	0	0	1	3
PL.24810	PL.24754	A	#4 ACSR	7.32Y	121.9	0.01	3.07	1.66	1	12	4	95	0.00	0.0	5.827	0.150	0	0	0	2
PL.24809	PL.24810	A	#4 ACSR	7.32Y	121.9	0.01	3.08	1.66	1	12	4	95	0.00	0.0	5.897	0.070	0	0	0	2
PL.24580	PL.24809	A	#1/0 ACSR	7.31Y	121.9	0.00	3.08	1.66	1	12	4	95	0.00	0.0	6.011	0.114	0	0	0	2
PL.24909	PL.24580	A	#1/0 ACSR	7.31Y	121.9	0.00	3.09	1.66	1	12	4	95	0.00	0.0	6.125	0.113	2	1	1	2
PL.24910	PL.24909	A	#1/0 ACSR	7.31Y	121.9	0.00	3.09	1.32	1	9	3	95	0.00	0.0	6.281	0.157	0	0	0	1
PL.24811	PL.24910	A	#1/0 ACSR	7.31Y	121.9	0.00	3.09	1.32	1	9	3	95	0.00	0.0	6.349	0.067	9	3	1	1

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Balanced Voltage Drop Report
Source: Hargett

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.24755	PL.24809	A	#4 ACSR	7.32Y	121.9	0.00	3.08	0.00	0	0	0	100	0.00	0.0	5.912	0.015	0	0	0	0
PL.24645	PL.24755	A	#4 ACSR	7.32Y	121.9	0.00	3.08	0.00	0	0	0	100	0.00	0.0	6.028	0.116	0	0	0	0
PL.24582	PL.25033	A	#2 ACSR	7.32Y	122.0	0.00	3.01	0.42	0	3	1	95	0.00	0.0	5.262	0.019	3	1	1	1
PL.24989	PL.25061	A	6 A (CWC)	7.32Y	122.0	0.01	3.00	31.42	22	220	66	96	0.01	0.0	5.173	0.004	0	0	0	43
PD.3507	PL.24989	A	20T	7.32Y	122.0	0.00	3.00	31.42	0	220	66	96	0.00	0.0	5.173	0.004	0	0	0	43
PL.24990	PD.3507	A	6 A (CWC)	7.32Y	122.0	0.05	3.05	31.42	22	220	66	96	0.08	0.0	5.204	0.032	2	1	1	43
PL.24933	PL.24990	A	6 A (CWC)	7.31Y	121.9	0.10	3.15	31.13	22	218	66	96	0.16	0.1	5.273	0.069	0	0	0	42
PL.24756	PL.24933	A	6 A (CWC)	7.31Y	121.8	0.02	3.16	29.42	21	206	62	96	0.02	0.0	5.285	0.012	9	3	1	39
PL.24925	PL.24756	A	6 A (CWC)	7.30Y	121.7	0.09	3.25	28.17	20	197	59	96	0.13	0.1	5.356	0.072	7	2	2	38
PL.24926	PL.24925	A	6 A (CWC)	7.30Y	121.7	0.05	3.30	27.13	19	190	57	96	0.07	0.0	5.397	0.041	23	7	3	36
PL.24628	PL.24926	A	6 A (CWC)	7.30Y	121.6	0.10	3.41	15.12	11	106	32	96	0.08	0.1	5.548	0.151	0	0	0	25
PL.24911	PL.24628	A	6 A (CWC)	7.30Y	121.6	0.01	3.41	1.39	1	10	3	96	0.00	0.0	5.666	0.118	2	0	1	3
PL.24912	PL.24911	A	6 A (CWC)	7.29Y	121.6	0.00	3.42	1.17	1	8	2	97	0.00	0.0	5.797	0.131	8	2	2	2
PL.24923	PL.24628	A	6 A (CWC)	7.29Y	121.6	0.03	3.44	13.73	10	96	29	96	0.02	0.0	5.597	0.049	0	0	0	22
PL.24924	PL.24923	A	6 A (CWC)	7.29Y	121.5	0.09	3.53	13.73	10	96	29	96	0.06	0.1	5.738	0.141	0	0	0	22
PL.24634	PL.24924	A	6 A (CWC)	7.28Y	121.3	0.13	3.65	12.58	9	88	26	96	0.08	0.1	5.955	0.217	0	0	0	21
PL.24633	PL.24634	A	6 A (CWC)	7.28Y	121.3	0.01	3.66	2.41	2	17	5	96	0.00	0.0	6.034	0.079	0	0	0	5
PL.24636	PL.24633	A	#4 ACSR	7.28Y	121.3	0.00	3.66	0.27	0	2	1	89	0.00	0.0	6.119	0.085	2	1	1	1
PL.24914	PL.24633	A	6 A (CWC)	7.28Y	121.3	0.00	3.66	0.41	0	3	1	95	0.00	0.0	6.143	0.109	0	0	1	3
PL.24915	PL.24914	A	6 A (CWC)	7.28Y	121.3	0.00	3.66	0.41	0	3	1	95	0.00	0.0	6.211	0.068	1	0	1	2
PL.24913	PL.24915	A	6 A (CWC)	7.28Y	121.3	0.00	3.66	0.25	0	2	1	89	0.00	0.0	6.298	0.087	2	1	1	1
PL.24637	PL.24633	A	#4 ACSR	7.28Y	121.3	0.00	3.66	1.74	1	12	4	95	0.00	0.0	6.082	0.048	12	4	1	1
PL.24635	PL.24634	A	6 A (CWC)	7.28Y	121.3	0.03	3.68	10.16	7	71	21	96	0.01	0.0	6.011	0.056	0	0	0	16
PL.24638	PL.24635	A	6 A (CWC)	7.28Y	121.3	0.06	3.74	7.84	6	55	16	96	0.03	0.0	6.198	0.188	7	2	2	14
PL.24639	PL.24638	A	6 A (CWC)	7.28Y	121.3	0.00	3.74	1.02	1	7	2	96	0.00	0.0	6.262	0.064	7	2	2	2
PL.24919	PL.24638	A	#4 ACSR	7.27Y	121.2	0.01	3.75	5.86	5	41	12	96	0.00	0.0	6.239	0.040	8	2	1	10
PL.24920	PL.24919	A	#4 ACSR	7.27Y	121.2	0.01	3.76	4.76	4	33	10	96	0.00	0.0	6.293	0.054	5	2	4	9
PL.24640	PL.24920	A	#1/0 ACSR	7.27Y	121.2	0.00	3.76	0.60	0	4	1	97	0.00	0.0	6.358	0.064	4	1	2	2
PL.24917	PL.24920	A	#4 ACSR	7.27Y	121.2	0.01	3.77	3.43	3	24	7	96	0.00	0.0	6.341	0.048	9	3	1	3
PL.24918	PL.24917	A	#4 ACSR	7.27Y	121.2	0.01	3.77	2.14	2	15	4	97	0.00	0.0	6.412	0.071	7	2	1	2
PL.24916	PL.24918	A	#4 ACSR	7.27Y	121.2	0.00	3.77	1.12	1	8	2	97	0.00	0.0	6.465	0.054	8	2	1	1

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Balanced Voltage Drop Report
Source: Hargett

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.24921	PL.24635	A	#2 ACSR	7.28Y	121.3	0.00	3.68	2.32	1	16	5	95	0.00	0.0	6.027	0.016	13	4	1	2
PL.24922	PL.24921	A	#2 ACSR	7.28Y	121.3	0.00	3.68	0.52	0	4	1	97	0.00	0.0	6.104	0.078	4	1	1	1
PL.24632	PL.24634	A	#4 ACSR	7.28Y	121.3	0.00	3.65	0.00	0	0	0	100	0.00	0.0	6.010	0.055	0	0	0	0
PL.24641	PL.24924	A	#4 ACSR	7.29Y	121.5	0.00	3.53	1.15	1	8	2	97	0.00	0.0	5.797	0.060	8	2	1	1
PL.24626	PL.24926	A	#4 ACSR	7.30Y	121.7	0.04	3.34	8.68	7	61	18	96	0.02	0.0	5.495	0.098	9	3	1	8
PL.24629	PL.24626	A	#2 ACSR	7.30Y	121.7	0.01	3.34	2.47	1	17	5	96	0.00	0.0	5.617	0.122	8	2	1	2
PL.24630	PL.24629	A	#2 ACSR	7.30Y	121.7	0.00	3.34	1.34	1	9	3	95	0.00	0.0	5.654	0.037	9	3	1	1
PL.24927	PL.24626	A	#2 ACSR	7.30Y	121.7	0.01	3.34	4.96	3	35	10	96	0.00	0.0	5.546	0.051	21	6	2	5
PL.24928	PL.24927	A	#2 ACSR	7.30Y	121.7	0.00	3.35	1.93	1	13	4	96	0.00	0.0	5.602	0.055	2	0	1	3
PL.24631	PL.24928	A	#4 ACSR	7.30Y	121.7	0.00	3.35	1.08	1	8	2	97	0.00	0.0	5.727	0.125	8	2	1	1
PL.24929	PL.24928	A	#2 ACSR	7.30Y	121.7	0.00	3.35	0.62	0	4	1	97	0.00	0.0	5.668	0.067	0	0	0	1
PL.24930	PL.24929	A	#2 ACSR	7.30Y	121.7	0.00	3.35	0.62	0	4	1	97	0.00	0.0	5.715	0.046	4	1	1	1
PL.24627	PL.24926	A	#2 ACSR	7.30Y	121.7	0.00	3.30	0.00	0	0	0	100	0.00	0.0	5.483	0.086	0	0	0	0
PL.24584	PL.24933	A	6 A (CWC)	7.31Y	121.9	0.00	3.15	1.71	1	12	4	95	0.00	0.0	5.314	0.041	12	4	3	3
CP.36	PL.25060	ABC	Cap (300)	7.32Y	122.1	0.00	2.95	0.00	0	0	0	100	0.00	0.0	5.086	0.041	0	0	0	0
PL.24991	PL.24807	C	6 A (CWC)	7.33Y	122.2	0.00	2.80	1.44	1	10	3	96	0.00	0.0	4.853	0.005	0	0	0	2
PD.3508	PL.24991	C	20T	7.33Y	122.2	0.00	2.80	1.44	0	10	3	96	0.00	0.0	4.853	0.005	0	0	0	2
PL.24992	PD.3508	C	6 A (CWC)	7.33Y	122.2	0.00	2.80	1.44	1	10	3	96	0.00	0.0	4.953	0.100	10	3	2	2
PL.24578	PL.24805	A	6 A (CWC)	7.34Y	122.3	0.04	2.72	5.11	4	36	11	96	0.01	0.0	4.830	0.191	0	0	0	6
PL.24806	PL.24578	A	6 A (CWC)	7.34Y	122.3	0.00	2.72	5.11	4	36	11	96	0.00	0.0	4.835	0.005	0	0	0	6
PD.3503	PL.24806	A	20T	7.34Y	122.3	0.00	2.72	5.11	0	36	11	96	0.00	0.0	4.835	0.005	0	0	0	6
PL.24750	PD.3503	A	6 A (CWC)	7.34Y	122.3	0.02	2.74	5.11	4	36	11	96	0.00	0.0	4.913	0.078	0	0	0	6
PL.24621	PL.24750	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.72	1	5	2	93	0.00	0.0	4.938	0.024	5	2	2	2
PL.24622	PL.24750	A	6 A (CWC)	7.33Y	122.2	0.02	2.75	4.28	3	30	9	96	0.00	0.0	4.998	0.084	0	0	0	3
PL.24752	PL.24622	A	6 A (CWC)	7.33Y	122.2	0.00	2.76	1.04	1	7	2	96	0.00	0.0	5.164	0.166	7	2	1	1
PL.24644	PL.24622	A	#4 ACSR	7.33Y	122.2	0.02	2.77	3.24	2	23	7	96	0.00	0.0	5.145	0.147	12	4	1	2
PL.24772	PL.24644	A	#4 ACSR	7.33Y	122.2	0.00	2.77	1.52	1	11	3	96	0.00	0.0	5.198	0.053	11	3	1	1
PL.24751	PL.24750	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	0.11	0	1	0	100	0.00	0.0	4.996	0.083	1	0	1	1
PL.24620	PD.3503	A	6 A (CWC)	7.34Y	122.3	0.00	2.72	0.00	0	0	0	100	0.00	0.0	4.963	0.128	0	0	0	0
PL.25028	PL.24841	A	#1/0 ACSR	7.37Y	122.9	0.00	2.11	0.07	0	0	0	100	0.00	0.0	3.846	0.005	0	0	0	1
PD.3526	PL.25028	A	65T	7.37Y	122.9	0.00	2.11	0.07	0	0	0	100	0.00	0.0	3.846	0.005	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: Hargett

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.25029	PD.3526	A	#1/0 ACSR	7.37Y	122.9	0.00	2.11	0.07	0	0	0	100	0.00	0.0	3.890	0.044	0	0	1	1
PL.25050	PL.24841	C	6 A (CWC)	7.37Y	122.9	0.00	2.11	11.00	8	78	23	96	0.00	0.0	3.844	0.003	0	0	0	21
PD.3537	PL.25050	C	50L	7.37Y	122.9	0.00	2.11	11.00	22	78	23	96	0.00	0.0	3.844	0.003	0	0	0	21
PL.25051	PD.3537	C	6 A (CWC)	7.37Y	122.8	0.09	2.20	11.00	8	78	23	96	0.05	0.1	4.019	0.175	0	0	0	21
PL.24744	PL.25051	C	6 A (CWC)	7.37Y	122.8	0.00	2.20	1.14	1	8	2	97	0.00	0.0	4.089	0.070	8	2	1	1
PL.24546	PL.25051	C	6 A (CWC)	7.37Y	122.8	0.04	2.25	9.86	7	70	21	96	0.02	0.0	4.118	0.099	0	0	0	20
PL.24788	PL.24546	C	6 A (CWC)	7.36Y	122.7	0.04	2.29	9.86	7	70	21	96	0.02	0.0	4.211	0.093	0	0	0	20
PL.24563	PL.24788	C	6 A (CWC)	7.36Y	122.7	0.04	2.33	9.86	7	70	21	96	0.02	0.0	4.304	0.093	0	0	0	20
PL.24820	PL.24563	C	6 A (CWC)	7.36Y	122.6	0.05	2.38	9.86	7	70	21	96	0.02	0.0	4.407	0.103	0	0	0	20
PL.24789	PL.24820	C	6 A (CWC)	7.35Y	122.6	0.04	2.42	9.86	7	69	21	96	0.02	0.0	4.503	0.096	0	0	0	20
PL.24821	PL.24789	C	6 A (CWC)	7.35Y	122.5	0.05	2.47	9.86	7	69	21	96	0.02	0.0	4.602	0.099	0	0	0	20
PL.24790	PL.24821	C	6 A (CWC)	7.35Y	122.5	0.04	2.51	9.86	7	69	21	96	0.02	0.0	4.699	0.096	0	0	0	20
PL.24822	PL.24790	C	6 A (CWC)	7.35Y	122.4	0.06	2.57	9.86	7	69	21	96	0.03	0.0	4.829	0.130	0	0	0	20
PL.24562	PL.24822	C	6 A (CWC)	7.34Y	122.4	0.02	2.59	8.72	6	61	18	96	0.01	0.0	4.887	0.058	0	0	0	18
PL.24653	PL.24562	C	#4 ACSR	7.34Y	122.4	0.01	2.60	8.72	7	61	18	96	0.00	0.0	4.907	0.020	0	0	0	18
PL.24559	PL.24653	C	#4 ACSR	7.34Y	122.3	0.05	2.65	8.72	7	61	18	96	0.02	0.0	5.032	0.124	0	0	0	18
PL.24558	PL.24559	C	#4 ACSR	7.34Y	122.3	0.04	2.69	6.29	5	44	13	96	0.01	0.0	5.184	0.153	9	3	1	14
PL.24560	PL.24558	C	#4 ACSR	7.34Y	122.3	0.00	2.69	0.50	0	3	1	95	0.00	0.0	5.252	0.067	0	0	0	6
PL.24561	PL.24560	C	#4 ACSR	7.34Y	122.3	0.00	2.69	0.19	0	1	0	100	0.00	0.0	5.330	0.078	1	0	2	4
PL.25014	PL.24561	C	#1/0 ACSR	7.34Y	122.3	0.00	2.69	0.07	0	1	0	100	0.00	0.0	5.334	0.005	0	0	0	2
PD.3519	PL.25014	C	20T	7.34Y	122.3	0.00	2.69	0.07	0	1	0	100	0.00	0.0	5.334	0.005	0	0	0	2
PL.25015	PD.3519	C	#1/0 ACSR	7.34Y	122.3	0.00	2.69	0.07	0	1	0	100	0.00	0.0	5.474	0.139	0	0	0	2
PL.24792	PL.25015	C	#1/0 ACSR	7.34Y	122.3	0.00	2.69	0.07	0	1	0	100	0.00	0.0	5.590	0.116	0	0	0	2
PL.24819	PL.24792	C	#1/0 ACSR	7.34Y	122.3	0.00	2.69	0.07	0	1	0	100	0.00	0.0	5.664	0.074	0	0	0	2
PL.24793	PL.24819	C	#1/0 ACSR	7.34Y	122.3	0.00	2.69	0.07	0	1	0	100	0.00	0.0	5.822	0.157	0	0	0	2
PL.24794	PL.24793	C	#1/0 ACSR	7.34Y	122.3	0.00	2.69	0.07	0	1	0	100	0.00	0.0	5.887	0.066	1	0	2	2
PL.24745	PL.24560	C	#4 ACSR	7.34Y	122.3	0.00	2.69	0.31	0	2	1	89	0.00	0.0	5.372	0.120	2	1	2	2
PL.24554	PL.24558	C	#4 ACSR	7.34Y	122.3	0.02	2.70	4.51	3	32	10	95	0.00	0.0	5.263	0.079	0	0	0	7
PL.24556	PL.24554	C	#1/0 ACSR	7.34Y	122.3	0.00	2.71	4.51	2	32	10	95	0.00	0.0	5.268	0.005	0	0	0	7
PD.3518	PL.24556	C	20T	7.34Y	122.3	0.00	2.71	4.51	0	32	10	95	0.00	0.0	5.268	0.005	0	0	0	7
PL.24960	PD.3518	C	#1/0 ACSR	7.34Y	122.3	0.00	2.71	3.67	2	26	8	96	0.00	0.0	5.304	0.036	13	4	1	6

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: Hargett

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.24961	PL.24960	C	#1/0 ACSR	7.34Y	122.3	0.00	2.71	1.87	1	13	4	96	0.00	0.0	5.360	0.055	2	0	1	5
PL.24959	PL.24961	C	#1/0 ACSR	7.34Y	122.3	0.00	2.71	1.64	1	12	3	97	0.00	0.0	5.399	0.040	0	0	0	4
PL.24957	PL.24959	C	#1/0 ACSR	7.34Y	122.3	0.00	2.71	1.64	1	11	3	96	0.00	0.0	5.513	0.114	6	2	2	3
PL.24958	PL.24957	C	#1/0 ACSR	7.34Y	122.3	0.00	2.72	0.84	0	6	2	95	0.00	0.0	5.562	0.048	6	2	1	1
PL.24557	PL.24959	C	#1/0 ACSR	7.34Y	122.3	0.00	2.71	0.00	0	0	0	100	0.00	0.0	5.511	0.111	0	0	1	1
PL.24555	PD.3518	C	#1/0 ACSR	7.34Y	122.3	0.00	2.71	0.84	0	6	2	95	0.00	0.0	5.356	0.088	6	2	1	1
PL.24552	PL.24559	C	6 A (CWC)	7.34Y	122.3	0.01	2.66	2.43	2	17	5	96	0.00	0.0	5.145	0.113	9	3	1	4
PL.24553	PL.24552	C	6 A (CWC)	7.34Y	122.3	0.00	2.66	1.13	1	8	2	97	0.00	0.0	5.199	0.054	0	0	0	3
PL.25046	PL.24553	C	6 A (CWC)	7.34Y	122.3	0.00	2.66	1.13	1	8	2	97	0.00	0.0	5.203	0.005	0	0	0	3
PD.3535	PL.25046	C	20T	7.34Y	122.3	0.00	2.66	1.13	0	8	2	97	0.00	0.0	5.203	0.005	0	0	0	3
PL.25047	PD.3535	C	6 A (CWC)	7.34Y	122.3	0.00	2.67	1.13	1	8	2	97	0.00	0.0	5.331	0.128	7	2	2	3
PL.24551	PL.25047	C	#2 ACSR	7.34Y	122.3	0.00	2.67	0.08	0	1	0	100	0.00	0.0	5.408	0.077	1	0	1	1
PL.24662	PL.24822	C	#4 ACSR	7.35Y	122.4	0.00	2.57	1.14	1	8	2	97	0.00	0.0	4.834	0.005	0	0	0	2
PD.3476	PL.24662	C	20T	7.35Y	122.4	0.00	2.57	1.14	0	8	2	97	0.00	0.0	4.834	0.005	0	0	0	2
PL.24663	PD.3476	C	#4 ACSR	7.35Y	122.4	0.01	2.58	1.14	1	8	2	97	0.00	0.0	4.960	0.126	0	0	0	2
PL.24818	PL.24663	C	#4 ACSR	7.34Y	122.4	0.01	2.59	1.14	1	8	2	97	0.00	0.0	5.121	0.162	0	0	0	2
PL.24791	PL.24818	C	#4 ACSR	7.34Y	122.4	0.01	2.59	1.14	1	8	2	97	0.00	0.0	5.240	0.119	0	0	0	2
PL.24857	PL.24791	C	#4 ACSR	7.34Y	122.4	0.01	2.60	1.14	1	8	2	97	0.00	0.0	5.367	0.127	0	0	1	2
PL.24858	PL.24857	C	#4 ACSR	7.34Y	122.4	0.00	2.60	1.13	1	8	2	97	0.00	0.0	5.523	0.156	8	2	1	1
PL.24696	PL.24843	A	6 A (CWC)	7.40Y	123.3	0.00	1.66	2.44	2	17	5	96	0.00	0.0	3.375	0.005	0	0	0	5
PD.3493	PL.24696	A	15T	7.40Y	123.3	0.00	1.66	2.44	0	17	5	96	0.00	0.0	3.375	0.005	0	0	0	5
PL.24966	PD.3493	A	6 A (CWC)	7.40Y	123.3	0.00	1.67	2.44	2	17	5	96	0.00	0.0	3.416	0.041	3	1	2	5
PL.24896	PL.24966	A	6 A (CWC)	7.40Y	123.3	0.01	1.68	1.95	1	14	4	96	0.00	0.0	3.578	0.162	3	1	1	3
PL.24893	PL.24896	A	6 A (CWC)	7.40Y	123.3	0.00	1.68	1.56	1	11	3	96	0.00	0.0	3.635	0.058	4	1	1	2
PL.24541	PL.24893	A	#2 ACSR	7.40Y	123.3	0.00	1.69	1.02	1	7	2	96	0.00	0.0	3.687	0.051	7	2	1	1
PL.24969	PL.24844	C	#2 ACSR	7.41Y	123.5	0.00	1.53	1.11	1	8	2	97	0.00	0.0	3.244	0.005	0	0	0	1
PD.3495	PL.24969	C	65T	7.41Y	123.5	0.00	1.53	1.11	0	8	2	97	0.00	0.0	3.244	0.005	0	0	0	1
PL.24970	PD.3495	C	#2 ACSR	7.41Y	123.5	0.00	1.54	1.11	1	8	2	97	0.00	0.0	3.303	0.059	8	2	1	1
PL.24973	PL.24866	A	#1/0 ACSR	7.43Y	123.9	0.00	1.10	1.53	1	11	3	96	0.00	0.0	2.676	0.005	0	0	0	2
PD.3497	PL.24973	A	65T	7.43Y	123.9	0.00	1.10	1.53	0	11	3	96	0.00	0.0	2.676	0.005	0	0	0	2
PL.24974	PD.3497	A	#1/0 ACSR	7.43Y	123.9	0.00	1.10	1.53	1	11	3	96	0.00	0.0	2.705	0.029	11	3	2	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: Hargett

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.24670	PL.24850	A	#1/0 ACSR	7.44Y	124.0	0.00	0.96	1.66	1	12	4	95	0.00	0.0	2.401	0.005	0	0	0	1
PD.3480	PL.24670	A	65T	7.44Y	124.0	0.00	0.96	1.66	0	12	4	95	0.00	0.0	2.401	0.005	0	0	0	1
PL.24671	PD.3480	A	#1/0 ACSR	7.44Y	124.0	0.00	0.96	1.66	1	12	4	95	0.00	0.0	2.425	0.024	12	4	1	1
PL.24668	PL.24738	C	#2 ACSR	7.44Y	124.1	0.00	0.92	0.82	0	6	2	95	0.00	0.0	2.324	0.005	0	0	0	1
PD.3479	PL.24668	C	65T	7.44Y	124.1	0.00	0.92	0.82	0	6	2	95	0.00	0.0	2.324	0.005	0	0	0	1
PL.24669	PD.3479	C	#2 ACSR	7.44Y	124.1	0.00	0.92	0.82	0	6	2	95	0.00	0.0	2.346	0.021	6	2	1	1
PL.24682	PL.24737	A	#2 ACSR	7.45Y	124.1	0.00	0.89	0.57	0	4	1	97	0.00	0.0	2.263	0.005	0	0	0	1
PD.3486	PL.24682	A	65T	7.45Y	124.1	0.00	0.89	0.57	0	4	1	97	0.00	0.0	2.263	0.005	0	0	0	1
PL.24683	PD.3486	A	#2 ACSR	7.45Y	124.1	0.00	0.89	0.57	0	4	1	97	0.00	0.0	2.334	0.071	4	1	1	1
PL.24680	PL.24852	C	#1/0 ACSR	7.45Y	124.1	0.00	0.87	0.24	0	2	1	89	0.00	0.0	2.222	0.005	0	0	0	1
PD.3485	PL.24680	C	65T	7.45Y	124.1	0.00	0.87	0.24	0	2	1	89	0.00	0.0	2.222	0.005	0	0	0	1
PL.24681	PD.3485	C	#1/0 ACSR	7.45Y	124.1	0.00	0.87	0.24	0	2	1	89	0.00	0.0	2.240	0.018	2	1	1	1
PL.24678	PL.24872	A	#1/0 ACSR	7.45Y	124.2	0.00	0.82	0.54	0	4	1	97	0.00	0.0	2.131	0.005	0	0	0	2
PD.3484	PL.24678	A	65T	7.45Y	124.2	0.00	0.82	0.54	0	4	1	97	0.00	0.0	2.131	0.005	0	0	0	2
PL.24679	PD.3484	A	#1/0 ACSR	7.45Y	124.2	0.00	0.82	0.54	0	4	1	97	0.00	0.0	2.159	0.028	4	1	2	2
PL.25040	PL.24856	A	#1/0 ACSR	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.965	0.005	0	0	0	1
PD.3532	PL.25040	A	65T	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.965	0.005	0	0	0	1
PL.25041	PD.3532	A	#1/0 ACSR	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.996	0.031	0	0	1	1
PL.24676	PL.24870	A	#1/0 ACSR	7.46Y	124.3	0.00	0.70	1.24	1	9	3	95	0.00	0.0	1.904	0.005	0	0	0	2
PD.3483	PL.24676	A	65T	7.46Y	124.3	0.00	0.70	1.24	0	9	3	95	0.00	0.0	1.904	0.005	0	0	0	2
PL.24677	PD.3483	A	#1/0 ACSR	7.46Y	124.3	0.00	0.70	1.24	1	9	3	95	0.00	0.0	1.982	0.078	9	3	2	2
PL.24534	PL.24677	A	6 A (CWC)	7.46Y	124.3	0.00	0.70	0.00	0	0	0	100	0.00	0.0	2.082	0.101	0	0	0	0
PL.24666	PL.24783	C	#1/0 ACSR	7.47Y	124.4	0.00	0.57	0.53	0	4	1	97	0.00	0.0	1.652	0.005	0	0	0	3
PD.3478	PL.24666	C	15T	7.47Y	124.4	0.00	0.57	0.53	0	4	1	97	0.00	0.0	1.652	0.005	0	0	0	3
PL.24667	PD.3478	C	#1/0 ACSR	7.47Y	124.4	0.00	0.57	0.53	0	4	1	97	0.00	0.0	1.698	0.046	0	0	1	3
PL.24859	PL.24667	C	#4 ACSR	7.47Y	124.4	0.00	0.57	0.53	0	4	1	97	0.00	0.0	1.713	0.015	0	0	1	2
PL.24860	PL.24859	C	#4 ACSR	7.47Y	124.4	0.00	0.57	0.53	0	4	1	97	0.00	0.0	1.772	0.059	4	1	1	1
PL.21526	Hargett	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	119.26	23	2538	871	95	0.01	0.0	0.005	0.005	0	0	0	450
PL.72941	PL.21526	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	119.26	23	2538	871	95	0.01	0.0	0.009	0.004	0	0	0	450

---------- Feeder No. 2 (Dry Branch F2) Beginning with Device PD.11204 ----------

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: Hargett

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.11204	PL.72941	ABC	360VWE	7.50Y	125.0	0.00	0.00	119.26	0	2538	871	95	0.00	0.0	0.009	0.004	0	0	0	450
PL.21527	PD.11204	ABC	397 SPACER	7.50Y	124.9	0.06	0.07	119.26	23	2538	871	95	0.29	0.0	0.161	0.153	9	3	2	450
PL.22224	PL.21527	ABC	397 SPACER	7.49Y	124.9	0.06	0.13	118.86	23	2529	865	95	0.29	0.0	0.317	0.155	0	0	0	448
PL.21770	PL.22224	A	#4 ACSR	7.49Y	124.9	0.00	0.13	0.19	0	1	0	100	0.00	0.0	0.321	0.004	0	0	0	1
PD.3200	PL.21770	A	65T	7.49Y	124.9	0.00	0.13	0.19	0	1	0	100	0.00	0.0	0.321	0.004	0	0	0	1
PL.21771	PD.3200	A	#4 ACSR	7.49Y	124.9	0.00	0.13	0.19	0	1	0	100	0.00	0.0	0.367	0.046	1	0	1	1
PL.22062	PL.22224	A	6 A (CWC)	7.49Y	124.9	0.00	0.13	1.88	1	13	4	96	0.00	0.0	0.328	0.011	0	0	0	3
PD.3176	PL.22062	A	65T	7.49Y	124.9	0.00	0.13	1.88	0	13	4	96	0.00	0.0	0.328	0.011	0	0	0	3
PL.22338	PD.3176	A	6 A (CWC)	7.49Y	124.9	0.00	0.13	1.88	1	13	4	96	0.00	0.0	0.332	0.004	2	1	2	3
PL.22225	PL.22338	A	6 A (CWC)	7.49Y	124.9	0.01	0.14	1.62	1	12	4	95	0.00	0.0	0.414	0.082	0	0	0	1
PL.21719	PL.22225	A	#4 ACSR	7.49Y	124.9	0.00	0.14	1.62	1	12	4	95	0.00	0.0	0.466	0.052	12	4	1	1
PL.21916	PL.22224	ABC	397 SPACER	7.49Y	124.8	0.05	0.18	118.18	23	2514	857	95	0.20	0.0	0.427	0.110	0	0	0	444
PL.22063	PL.21916	A	#4 ACSR	7.49Y	124.8	0.00	0.18	1.09	1	8	2	97	0.00	0.0	0.437	0.010	0	0	0	1
PD.3171	PL.22063	A	65T	7.49Y	124.8	0.00	0.18	1.09	0	8	2	97	0.00	0.0	0.437	0.010	0	0	0	1
PL.22330	PD.3171	A	#4 ACSR	7.49Y	124.8	0.00	0.18	1.09	1	8	2	97	0.00	0.0	0.485	0.048	8	2	1	1
PL.21917	PL.21916	ABC	397 SPACER	7.49Y	124.8	0.03	0.21	115.56	22	2458	838	95	0.12	0.0	0.497	0.070	2	1	1	433
PL.22066	PL.21917	ABC	397 SPACER	7.49Y	124.8	0.02	0.23	115.48	22	2456	836	95	0.09	0.0	0.548	0.051	7	2	1	432
PL.22242	PL.22066	ABC	397 SPACER	7.49Y	124.8	0.02	0.24	114.71	22	2439	830	95	0.07	0.0	0.588	0.039	6	2	1	429
PL.22243	PL.22242	ABC	397 SPACER	7.48Y	124.7	0.02	0.26	114.41	22	2433	827	95	0.07	0.0	0.629	0.041	9	3	1	428
PL.22241	PL.22243	ABC	397 SPACER	7.48Y	124.7	0.02	0.28	113.99	22	2424	823	95	0.07	0.0	0.671	0.041	9	3	1	427
PL.22044	PL.22241	ABC	397 SPACER	7.48Y	124.7	0.04	0.32	113.55	22	2414	820	95	0.19	0.0	0.782	0.111	0	0	0	426
PL.22235	PL.22044	ABC	397 SPACER	7.48Y	124.7	0.01	0.33	111.50	21	2370	804	95	0.05	0.0	0.813	0.031	4	1	1	414
PL.22236	PL.22235	ABC	397 SPACER	7.48Y	124.6	0.04	0.37	111.33	21	2366	802	95	0.17	0.0	0.918	0.106	0	0	0	413
PL.21920	PL.22236	ABC	397 SPACER	7.48Y	124.6	0.01	0.39	110.12	21	2340	792	95	0.06	0.0	0.957	0.039	5	1	1	407
PL.22045	PL.21920	ABC	397 SPACER	7.47Y	124.6	0.04	0.43	109.89	21	2335	790	95	0.17	0.0	1.065	0.108	0	0	0	406
PL.21921	PL.22045	ABC	397 SPACER	7.47Y	124.5	0.05	0.48	107.13	21	2275	770	95	0.22	0.0	1.211	0.146	14	4	2	404
PL.22203	PL.21921	ABC	336 MCM AC	7.47Y	124.5	0.04	0.52	106.47	21	2261	764	95	0.40	0.0	1.253	0.042	0	0	1	402
PL.22204	PL.22203	ABC	336 MCM AC	7.46Y	124.4	0.12	0.64	106.47	21	2260	763	95	1.40	0.1	1.400	0.147	0	0	0	401
PL.22300	PL.22204	C	#2 ACSR	7.46Y	124.4	0.00	0.64	0.80	0	6	2	95	0.00	0.0	1.404	0.005	0	0	0	2
PD.3156	PL.22300	C	65T	7.46Y	124.4	0.00	0.64	0.80	0	6	2	95	0.00	0.0	1.404	0.005	0	0	0	2

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Balanced Voltage Drop Report
Source: Hargett

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.22301	PD.3156	C	#2 ACSR	7.46Y	124.4	0.00	0.64	0.80	0	6	2	95	0.00	0.0	1.413	0.008	6	2	2	2
PL.22197	PL.22204	ABC	336 MCM AC	7.46Y	124.3	0.08	0.72	106.20	20	2253	758	95	0.91	0.0	1.496	0.096	0	0	1	399
PL.22198	PL.22197	ABC	336 MCM AC	7.45Y	124.2	0.04	0.77	106.19	20	2252	755	95	0.50	0.0	1.548	0.053	10	3	1	398
PL.22067	PL.22198	ABC	336 MCM AC	7.45Y	124.1	0.10	0.87	105.45	20	2236	749	95	1.13	0.1	1.669	0.121	0	0	0	395
PL.22343	PL.22067	C	#2 ACSR	7.45Y	124.1	0.00	0.87	1.73	1	12	4	95	0.00	0.0	1.674	0.005	0	0	0	1
PD.3179	PL.22343	C	65T	7.45Y	124.1	0.00	0.87	1.73	0	12	4	95	0.00	0.0	1.674	0.005	0	0	0	1
PL.22344	PD.3179	C	#2 ACSR	7.45Y	124.1	0.00	0.87	1.73	1	12	4	95	0.00	0.0	1.789	0.115	12	4	1	1
PL.22298	PL.22067	C	#2 ACSR	7.45Y	124.1	0.00	0.87	3.09	2	22	7	95	0.00	0.0	1.674	0.005	0	0	0	2
PD.3155	PL.22298	C	65T	7.45Y	124.1	0.00	0.87	3.09	0	22	7	95	0.00	0.0	1.674	0.005	0	0	0	2
PL.22299	PD.3155	C	#2 ACSR	7.45Y	124.1	0.00	0.87	3.09	2	22	7	95	0.00	0.0	1.749	0.075	22	7	2	2
PL.22345	PL.22067	ABC	336 MCM AC	7.45Y	124.1	0.00	0.87	103.85	20	2200	737	95	0.04	0.0	1.673	0.004	0	0	0	392
PL.22346	PL.22345	ABC	336 MCM AC	7.44Y	124.1	0.07	0.94	103.85	20	2200	736	95	0.74	0.0	1.755	0.081	0	0	0	392
PL.21922	PL.22346	ABC	336 MCM AC	7.44Y	123.9	0.14	1.07	103.68	20	2196	734	95	1.52	0.1	1.923	0.168	0	0	0	390
PL.22349	PL.21922	A	#1/0 ACSR	7.44Y	123.9	0.00	1.08	2.18	1	15	5	95	0.00	0.0	1.927	0.005	0	0	0	3
PD.3181	PL.22349	A	65T	7.44Y	123.9	0.00	1.08	2.18	0	15	5	95	0.00	0.0	1.927	0.005	0	0	0	3
PL.22350	PD.3181	A	#1/0 ACSR	7.44Y	123.9	0.00	1.08	2.18	1	15	5	95	0.00	0.0	1.977	0.050	6	2	1	3
PL.22202	PL.22350	A	#1/0 ACSR	7.44Y	123.9	0.00	1.08	1.37	1	10	3	96	0.00	0.0	2.005	0.028	9	3	1	2
PL.22199	PL.22202	A	#1/0 ACSR	7.44Y	123.9	0.00	1.08	0.09	0	1	0	100	0.00	0.0	2.053	0.048	1	0	1	1
PL.21923	PL.21922	ABC	336 MCM AC	7.43Y	123.8	0.08	1.15	102.96	20	2179	725	95	0.85	0.0	2.018	0.095	0	0	0	387
PL.21732	PL.21923	A	#1/0 ACSR	7.43Y	123.8	0.00	1.15	0.25	0	2	1	89	0.00	0.0	2.022	0.005	0	0	0	1
PD.3182	PL.21732	A	65T	7.43Y	123.8	0.00	1.15	0.25	0	2	1	89	0.00	0.0	2.022	0.005	0	0	0	1
PL.21733	PD.3182	A	#1/0 ACSR	7.43Y	123.8	0.00	1.15	0.00	0	0	0	100	0.00	0.0	2.071	0.048	0	0	0	0
PL.21924	PD.3182	A	#1/0 ACSR	7.43Y	123.8	0.00	1.15	0.25	0	2	1	89	0.00	0.0	2.052	0.030	2	1	1	1
PL.22195	PL.21923	ABC	336 MCM AC	7.43Y	123.8	0.05	1.20	102.88	20	2176	723	95	0.51	0.0	2.075	0.058	6	2	2	386
PL.22196	PL.22195	ABC	336 MCM AC	7.43Y	123.8	0.04	1.24	102.61	20	2170	720	95	0.45	0.0	2.126	0.050	7	2	1	384
PL.22353	PL.22196	ABC	336 MCM AC	7.42Y	123.7	0.08	1.32	102.28	20	2163	717	95	0.85	0.0	2.223	0.097	0	0	0	383
PL.22354	PL.22353	ABC	336 MCM AC	7.42Y	123.7	0.00	1.32	102.28	20	2162	715	95	0.04	0.0	2.227	0.004	0	0	0	383
PL.22304	PL.22354	A	#2 ACSR	7.42Y	123.7	0.00	1.32	0.98	1	7	2	96	0.00	0.0	2.232	0.005	0	0	0	2
PD.3158	PL.22304	A	65T	7.42Y	123.7	0.00	1.32	0.98	0	7	2	96	0.00	0.0	2.232	0.005	0	0	0	2
PL.22305	PD.3158	A	#2 ACSR	7.42Y	123.7	0.00	1.32	0.98	1	7	2	96	0.00	0.0	2.244	0.012	7	2	2	2
PL.22351	PL.22354	A	#2 ACSR	7.42Y	123.7	0.00	1.32	2.16	1	15	5	95	0.00	0.0	2.232	0.005	0	0	0	5

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Balanced Voltage Drop Report
Source: Hargett

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.3183	PL.22351	A	65T	7.42Y	123.7	0.00	1.32	2.16	0	15	5	95	0.00	0.0	2.232	0.005	0	0	0	5
PL.22352	PD.3183	A	#2 ACSR	7.42Y	123.7	0.01	1.33	2.16	1	15	5	95	0.00	0.0	2.417	0.186	3	1	2	5
PL.22200	PL.22352	A	#1/0 ACSR	7.42Y	123.7	0.00	1.33	1.74	1	12	4	95	0.00	0.0	2.455	0.038	8	2	1	3
PL.22201	PL.22200	A	#1/0 ACSR	7.42Y	123.7	0.00	1.33	0.67	0	5	1	98	0.00	0.0	2.520	0.065	3	1	1	2
PL.21734	PL.22201	A	#1/0 ACSR	7.42Y	123.7	0.00	1.33	0.31	0	2	1	89	0.00	0.0	2.552	0.032	2	1	1	1
PL.22205	PL.22354	ABC	336 MCM AC	7.42Y	123.6	0.05	1.37	101.23	20	2140	708	95	0.53	0.0	2.288	0.061	15	5	2	376
PL.22206	PL.22205	ABC	336 MCM AC	7.42Y	123.6	0.04	1.41	100.52	19	2124	702	95	0.40	0.0	2.336	0.047	0	0	0	374
PL.21735	PL.22206	ABC	336 MCM AC	7.41Y	123.5	0.07	1.48	100.52	19	2123	701	95	0.74	0.0	2.422	0.087	0	0	0	374
PL.21737	PL.21735	A	#2 ACSR	7.41Y	123.5	0.00	1.48	1.18	1	8	3	94	0.00	0.0	2.442	0.019	0	0	0	3
PL.22302	PL.21737	A	6 A (CWC)	7.41Y	123.5	0.00	1.48	1.18	1	8	3	94	0.00	0.0	2.446	0.005	0	0	0	3
PD.3157	PL.22302	A	65T	7.41Y	123.5	0.00	1.48	1.18	0	8	3	94	0.00	0.0	2.446	0.005	0	0	0	3
PL.22303	PD.3157	A	6 A (CWC)	7.41Y	123.5	0.00	1.48	1.18	1	8	3	94	0.00	0.0	2.510	0.064	0	0	0	3
PL.21738	PL.22303	A	6 A (CWC)	7.41Y	123.5	0.00	1.48	1.18	1	8	3	94	0.00	0.0	2.567	0.057	8	3	3	3
PL.22259	PL.22303	A	6 A (CWC)	7.41Y	123.5	0.00	1.48	0.00	0	0	0	100	0.00	0.0	2.600	0.090	0	0	0	0
PL.21736	PL.21735	A	#2 ACSR	7.41Y	123.5	0.02	1.49	7.74	4	55	17	96	0.01	0.0	2.497	0.075	7	2	1	11
PL.22306	PL.21736	A	6 A (CWC)	7.41Y	123.5	0.00	1.49	6.69	5	47	14	96	0.00	0.0	2.502	0.005	0	0	0	10
PD.3159	PL.22306	A	65T	7.41Y	123.5	0.00	1.49	6.69	0	47	14	96	0.00	0.0	2.502	0.005	0	0	0	10
PL.22307	PD.3159	A	6 A (CWC)	7.41Y	123.5	0.04	1.53	6.69	5	47	14	96	0.01	0.0	2.618	0.116	0	0	0	10
PL.21871	PL.22307	A	6 A (CWC)	7.41Y	123.4	0.02	1.55	6.69	5	47	14	96	0.01	0.0	2.688	0.070	0	0	0	10
PL.21926	PL.21871	A	6 A (CWC)	7.41Y	123.4	0.03	1.58	5.75	4	41	12	96	0.01	0.0	2.796	0.108	0	0	0	8
PL.22252	PL.21926	A	6 A (CWC)	7.40Y	123.4	0.03	1.61	5.75	4	41	12	96	0.01	0.0	2.900	0.104	5	1	1	8
PL.22253	PL.22252	A	6 A (CWC)	7.40Y	123.4	0.01	1.62	5.11	4	36	11	96	0.00	0.0	2.960	0.060	6	2	1	7
PL.22068	PL.22253	A	6 A (CWC)	7.40Y	123.4	0.01	1.63	3.40	2	24	7	96	0.00	0.0	3.037	0.077	0	0	0	5
PL.21873	PL.22068	A	6 A (CWC)	7.40Y	123.4	0.01	1.64	3.40	2	24	7	96	0.00	0.0	3.093	0.056	4	1	1	5
PL.22254	PL.21873	A	#4 ACSR	7.40Y	123.4	0.01	1.65	2.77	2	20	6	96	0.00	0.0	3.145	0.053	1	0	2	4
PL.22255	PL.22254	A	#4 ACSR	7.40Y	123.3	0.01	1.65	2.60	2	18	6	95	0.00	0.0	3.219	0.074	12	3	1	2
PL.22256	PL.22255	A	#4 ACSR	7.40Y	123.3	0.00	1.65	0.96	1	7	2	96	0.00	0.0	3.298	0.079	0	0	0	1
PL.21874	PL.22256	A	#4 ACSR	7.40Y	123.3	0.00	1.66	0.96	1	7	2	96	0.00	0.0	3.368	0.070	7	2	1	1
PL.21872	PL.22253	A	#2 ACSR	7.40Y	123.4	0.00	1.62	0.92	1	7	2	96	0.00	0.0	3.042	0.082	7	2	1	1
PL.22250	PL.21871	A	6 A (CWC)	7.41Y	123.4	0.00	1.55	0.94	1	7	2	96	0.00	0.0	2.739	0.051	3	1	1	2
PL.22251	PL.22250	A	6 A (CWC)	7.41Y	123.4	0.00	1.55	0.49	0	4	1	97	0.00	0.0	2.777	0.037	4	1	1	1

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Balanced Voltage Drop Report
Source: Hargett

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.21925	PL.21735	ABC	336 MCM AC	7.40Y	123.4	0.13	1.61	97.55	19	2059	681	95	1.35	0.1	2.591	0.169	0	0	0	360
PL.21927	PL.21925	ABC	336 MCM AC	7.40Y	123.3	0.05	1.65	97.55	19	2058	677	95	0.51	0.0	2.655	0.064	0	0	0	360
PL.22310	PL.21927	C	#2 ACSR	7.40Y	123.3	0.00	1.66	2.10	1	15	4	97	0.00	0.0	2.709	0.054	0	0	0	2
PD.3161	PL.22310	C	65T	7.40Y	123.3	0.00	1.66	2.10	0	15	4	97	0.00	0.0	2.709	0.054	0	0	0	2
PL.22311	PD.3161	C	#2 ACSR	7.40Y	123.3	0.01	1.67	2.10	1	15	4	97	0.00	0.0	2.844	0.135	3	1	1	2
PL.22208	PL.22311	C	#2 ACSR	7.40Y	123.3	0.00	1.67	1.67	1	12	4	95	0.00	0.0	2.882	0.037	12	4	1	1
PL.21739	PL.21927	ABC	#1/0 ACSR	7.40Y	123.3	0.04	1.70	96.85	42	2043	672	95	0.58	0.0	2.679	0.023	0	0	0	358
PL.21740	PL.21739	C	#4 ACSR	7.40Y	123.3	0.04	1.73	13.12	10	93	28	96	0.03	0.0	2.740	0.061	0	0	0	11
PL.21743	PL.21740	C	6 A (CWC)	7.39Y	123.2	0.03	1.76	12.76	9	90	27	96	0.02	0.0	2.793	0.053	7	2	1	9
PL.21766	PL.21743	C	6 A (CWC)	7.39Y	123.2	0.00	1.76	11.80	8	84	25	96	0.00	0.0	2.797	0.005	0	0	0	8
PD.3198	PL.21766	C	65T	7.39Y	123.2	0.00	1.76	11.80	0	84	25	96	0.00	0.0	2.797	0.005	0	0	0	8
PL.21767	PD.3198	C	6 A (CWC)	7.39Y	123.1	0.09	1.86	11.80	8	84	25	96	0.06	0.1	2.968	0.171	0	0	0	8
PL.22047	PL.21767	C	6 A (CWC)	7.39Y	123.1	0.05	1.91	11.80	8	83	25	96	0.03	0.0	3.058	0.090	0	0	0	8
PL.22060	PL.22047	C	6 A (CWC)	7.38Y	123.0	0.06	1.96	11.80	8	83	25	96	0.03	0.0	3.161	0.103	0	0	0	8
PL.22048	PL.22060	C	6 A (CWC)	7.38Y	123.0	0.06	2.02	11.80	8	83	25	96	0.04	0.0	3.272	0.111	0	0	0	8
PL.21746	PL.22048	C	6 A (CWC)	7.38Y	123.0	0.01	2.03	1.31	1	9	3	95	0.00	0.0	3.459	0.187	0	0	0	2
PL.21928	PL.21746	C	6 A (CWC)	7.38Y	123.0	0.00	2.04	0.44	0	3	1	95	0.00	0.0	3.638	0.179	0	0	0	1
PL.22049	PL.21928	C	6 A (CWC)	7.38Y	123.0	0.00	2.04	0.44	0	3	1	95	0.00	0.0	3.817	0.180	3	1	1	1
PL.21747	PL.21746	C	6 A (CWC)	7.38Y	123.0	0.00	2.04	0.87	1	6	2	95	0.00	0.0	3.557	0.098	6	2	1	1
PL.21745	PL.22048	C	6 A (CWC)	7.38Y	122.9	0.05	2.07	10.49	7	74	22	96	0.03	0.0	3.367	0.095	0	0	0	6
PL.22050	PL.21745	C	6 A (CWC)	7.37Y	122.9	0.05	2.12	10.49	7	74	22	96	0.03	0.0	3.467	0.100	0	0	0	6
PL.22193	PL.22050	C	#4 ACSR	7.37Y	122.9	0.03	2.15	10.49	8	74	22	96	0.02	0.0	3.536	0.069	9	3	1	6
PL.22194	PL.22193	C	#4 ACSR	7.37Y	122.8	0.01	2.16	9.15	7	65	19	96	0.00	0.0	3.556	0.020	3	1	1	5
PL.22177	PL.22194	C	#4 ACSR	7.37Y	122.8	0.03	2.18	8.31	6	59	18	96	0.01	0.0	3.633	0.077	6	2	1	3
PL.22178	PL.22177	C	#4 ACSR	7.37Y	122.8	0.02	2.21	7.39	6	52	16	96	0.01	0.0	3.702	0.069	0	0	0	2
PL.21748	PL.22178	C	#4 ACSR	7.37Y	122.8	0.00	2.21	6.16	5	43	13	96	0.00	0.0	3.724	0.021	43	13	1	1
PL.21749	PL.22178	C	#4 ACSR	7.37Y	122.8	0.00	2.21	1.23	1	9	3	95	0.00	0.0	3.777	0.074	9	3	1	1
PL.21959	PL.22194	C	2 AL URD	7.37Y	122.8	0.00	2.16	0.38	0	3	1	95	0.00	0.0	3.561	0.005	0	0	0	1
PD.3140	PL.21959	C	40T	7.37Y	122.8	0.00	2.16	0.38	0	3	1	95	0.00	0.0	3.561	0.005	0	0	0	1
PL.21960	PD.3140	C	2 AL URD	7.37Y	122.8	0.00	2.16	0.38	0	3	1	95	0.00	0.0	3.620	0.060	3	1	1	1
PL.22260	PL.21743	C	6 A (CWC)	7.39Y	123.2	0.00	1.76	0.00	0	0	0	100	0.00	0.0	2.797	0.005	0	0	0	0

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Balanced Voltage Drop Report
Source: Hargett

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.21742	PL.21740	C	6 A (CWC)	7.40Y	123.3	0.00	1.73	0.35	0	3	1	95	0.00	0.0	2.770	0.030	3	1	2	2
PL.21915	PL.21739	ABC	#1/0 ACSR	7.39Y	123.2	0.11	1.80	91.63	40	1931	638	95	1.43	0.1	2.742	0.064	0	0	0	345
PL.21929	PL.21915	ABC	#1/0 ACSR	7.39Y	123.1	0.06	1.86	84.30	37	1782	565	95	0.74	0.0	2.781	0.039	0	0	0	344
PL.21741	PL.21929	ABC	#1/0 ACSR	7.38Y	123.0	0.18	2.04	84.30	37	1781	564	95	2.14	0.1	2.895	0.113	0	0	0	344
PL.21973	PL.21741	C	6 A (CWC)	7.38Y	123.0	0.00	2.04	1.17	1	8	2	97	0.00	0.0	2.899	0.005	0	0	0	2
PD.3147	PL.21973	C	65T	7.38Y	123.0	0.00	2.04	1.17	0	8	2	97	0.00	0.0	2.899	0.005	0	0	0	2
PL.21974	PD.3147	C	6 A (CWC)	7.38Y	123.0	0.00	2.04	1.17	1	8	2	97	0.00	0.0	2.978	0.078	0	0	1	2
PL.21744	PL.21974	C	6 A (CWC)	7.38Y	123.0	0.00	2.05	1.16	1	8	2	97	0.00	0.0	3.055	0.077	8	2	1	1
PL.21930	PL.21741	ABC	#1/0 ACSR	7.37Y	122.9	0.07	2.11	83.91	36	1771	560	95	0.86	0.0	2.940	0.046	0	0	0	342
PL.21971	PL.21930	A	#4 ACSR	7.37Y	122.9	0.00	2.11	1.02	1	7	2	96	0.00	0.0	2.945	0.005	0	0	0	1
PD.3146	PL.21971	A	65T	7.37Y	122.9	0.00	2.11	1.02	0	7	2	96	0.00	0.0	2.945	0.005	0	0	0	1
PL.21972	PD.3146	A	#4 ACSR	7.37Y	122.9	0.00	2.11	1.02	1	7	2	96	0.00	0.0	2.973	0.028	7	2	1	1
PL.21931	PL.21930	ABC	#1/0 ACSR	7.36Y	122.7	0.14	2.25	83.57	36	1763	557	95	1.75	0.1	3.034	0.094	0	0	0	341
PL.22051	PL.21931	ABC	#1/0 ACSR	7.35Y	122.5	0.23	2.49	83.57	36	1761	555	95	2.83	0.2	3.186	0.152	0	0	0	341
PL.21932	PL.22051	ABC	#1/0 ACSR	7.35Y	122.5	0.03	2.52	82.67	36	1739	547	95	0.38	0.0	3.207	0.021	0	0	0	338
PL.21751	PL.21932	ABC	#1/0 ACSR	7.34Y	122.3	0.18	2.70	82.67	36	1739	546	95	2.13	0.1	3.324	0.117	0	0	0	338
PL.21933	PL.21751	ABC	#1/0 ACSR	7.33Y	122.2	0.09	2.79	81.96	36	1722	540	95	1.12	0.1	3.386	0.062	0	0	0	336
PL.22190	PL.21933	ABC	#1/0 ACSR	7.33Y	122.1	0.07	2.86	81.77	36	1717	537	95	0.82	0.0	3.433	0.046	11	3	1	335
PL.22191	PL.22190	ABC	#1/0 ACSR	7.33Y	122.1	0.04	2.90	81.27	35	1705	533	95	0.49	0.0	3.460	0.028	0	0	0	334
PL.22192	PL.22191	ABC	#1/0 ACSR	7.32Y	122.0	0.09	2.99	81.27	35	1705	533	95	1.04	0.1	3.519	0.059	0	0	0	334
PL.22355	PL.22192	C	6 A (CWC)	7.32Y	122.0	0.00	2.99	5.13	4	36	11	96	0.00	0.0	3.524	0.005	0	0	0	7
PD.3184	PL.22355	C	65T	7.32Y	122.0	0.00	2.99	5.13	0	36	11	96	0.00	0.0	3.524	0.005	0	0	0	7
PL.22356	PD.3184	C	6 A (CWC)	7.32Y	122.0	0.02	3.01	5.13	4	36	11	96	0.01	0.0	3.622	0.098	6	2	1	7
PL.21753	PL.22356	C	6 A (CWC)	7.32Y	122.0	0.00	3.01	1.56	1	11	3	96	0.00	0.0	3.687	0.065	11	3	1	1
PL.22071	PL.22356	C	6 A (CWC)	7.32Y	122.0	0.01	3.02	2.76	2	19	6	95	0.00	0.0	3.694	0.072	4	1	1	5
PL.22069	PL.22071	C	#4 ACSR	7.32Y	122.0	0.00	3.02	1.11	1	8	2	97	0.00	0.0	3.756	0.062	0	0	0	3
PL.21756	PL.22069	C	#4 ACSR	7.32Y	122.0	0.00	3.02	1.11	1	8	2	97	0.00	0.0	3.772	0.017	8	2	3	3
PL.22070	PL.22071	C	#4 ACSR	7.32Y	122.0	0.00	3.02	1.04	1	7	2	96	0.00	0.0	3.746	0.052	7	2	1	1
PL.22182	PL.22192	ABC	#1/0 ACSR	7.32Y	122.0	0.06	3.05	79.26	34	1661	519	95	0.69	0.0	3.561	0.042	16	5	3	326
PL.22183	PL.22182	ABC	#1/0 ACSR	7.31Y	121.9	0.07	3.12	78.49	34	1644	514	95	0.83	0.1	3.612	0.051	7	2	2	323
PL.21963	PL.22183	C	#4 ACSR	7.31Y	121.9	0.00	3.12	2.15	2	15	5	95	0.00	0.0	3.617	0.005	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: Hargett

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.3142	PL.21963	C	65T	7.31Y	121.9	0.00	3.12	2.15	0	15	5	95	0.00	0.0	3.617	0.005	0	0	0	2
PL.21964	PD.3142	C	#4 ACSR	7.31Y	121.9	0.00	3.13	2.15	2	15	5	95	0.00	0.0	3.648	0.031	6	2	1	2
PL.21755	PL.21964	C	#4 ACSR	7.31Y	121.9	0.00	3.13	1.30	1	9	3	95	0.00	0.0	3.740	0.092	9	3	1	1
PL.22180	PL.22183	ABC	#1/0 ACSR	7.31Y	121.8	0.10	3.22	77.44	34	1622	506	95	1.11	0.1	3.682	0.070	12	3	2	319
PL.22181	PL.22180	ABC	#1/0 ACSR	7.30Y	121.6	0.14	3.36	76.89	33	1609	502	95	1.52	0.1	3.779	0.097	8	2	3	317
PL.22073	PL.22181	ABC	#1/0 ACSR	7.29Y	121.5	0.09	3.45	76.30	33	1595	497	95	1.02	0.1	3.844	0.066	0	0	0	312
PL.21965	PL.22073	A	#2 ACSR	7.29Y	121.5	0.00	3.45	8.44	5	59	18	96	0.00	0.0	3.849	0.005	0	0	0	9
PD.3143	PL.21965	A	65T	7.29Y	121.5	0.00	3.45	8.44	0	59	18	96	0.00	0.0	3.849	0.005	0	0	0	9
PL.21966	PD.3143	A	#2 ACSR	7.29Y	121.5	0.02	3.47	8.44	5	59	18	96	0.01	0.0	3.918	0.069	8	2	1	9
PL.21757	PL.21966	A	6 A (CWC)	7.29Y	121.5	0.02	3.49	7.31	5	51	15	96	0.01	0.0	3.971	0.054	0	0	0	8
PL.21758	PL.21757	A	#1/0 ACSR	7.29Y	121.5	0.00	3.49	1.37	1	10	3	96	0.00	0.0	4.015	0.044	10	3	1	1
PL.22074	PL.21757	A	6 A (CWC)	7.29Y	121.5	0.04	3.52	5.93	4	41	12	96	0.01	0.0	4.103	0.131	0	0	0	7
PL.22075	PL.22074	A	6 A (CWC)	7.29Y	121.5	0.00	3.53	2.97	2	21	6	96	0.00	0.0	4.139	0.036	0	0	0	3
PL.21854	PL.22075	A	#4 ACSR	7.29Y	121.5	0.00	3.53	2.20	2	15	5	95	0.00	0.0	4.207	0.068	15	5	1	1
PL.21855	PL.22075	A	6 A (CWC)	7.29Y	121.5	0.00	3.53	0.77	1	5	2	93	0.00	0.0	4.223	0.084	5	2	2	2
PL.22188	PL.22074	A	#4 ACSR	7.29Y	121.5	0.01	3.53	2.96	2	21	6	96	0.00	0.0	4.162	0.060	7	2	1	4
PL.22187	PL.22188	A	#4 ACSR	7.29Y	121.5	0.00	3.53	1.91	1	13	4	96	0.00	0.0	4.213	0.050	0	0	0	3
PL.21853	PL.22187	A	#4 ACSR	7.29Y	121.5	0.00	3.54	0.95	1	7	2	96	0.00	0.0	4.355	0.143	7	2	1	1
PL.22223	PL.22187	A	#4 ACSR	7.29Y	121.5	0.00	3.54	0.96	1	7	2	96	0.00	0.0	4.257	0.045	3	1	1	2
PL.22222	PL.22223	A	#4 ACSR	7.29Y	121.5	0.00	3.54	0.59	0	4	1	97	0.00	0.0	4.310	0.053	4	1	1	1
PL.22184	PL.22073	ABC	#1/0 ACSR	7.29Y	121.5	0.03	3.48	73.49	32	1535	478	95	0.36	0.0	3.870	0.025	1	0	1	303
PL.22185	PL.22184	ABC	#1/0 ACSR	7.28Y	121.3	0.20	3.68	73.45	32	1534	477	95	2.14	0.1	4.019	0.149	8	2	1	302
PL.21969	PL.22185	A	#4 ACSR	7.28Y	121.3	0.00	3.68	0.54	0	4	1	97	0.00	0.0	4.024	0.005	0	0	0	1
PD.3145	PL.21969	A	65T	7.28Y	121.3	0.00	3.68	0.54	0	4	1	97	0.00	0.0	4.024	0.005	0	0	0	1
PL.21970	PD.3145	A	#4 ACSR	7.28Y	121.3	0.00	3.69	0.54	0	4	1	97	0.00	0.0	4.075	0.051	4	1	1	1
PL.22186	PL.21970	A	#4 ACSR	7.28Y	121.3	0.00	3.69	0.00	0	0	0	100	0.00	0.0	4.102	0.027	0	0	0	0
PL.22076	PL.22185	ABC	#1/0 ACSR	7.27Y	121.2	0.10	3.79	72.90	32	1520	472	96	1.06	0.1	4.094	0.075	0	0	0	300
PL.22218	PL.22076	ABC	#1/0 ACSR	7.27Y	121.2	0.03	3.82	72.73	32	1516	470	96	0.35	0.0	4.119	0.025	13	4	4	299
PL.22219	PL.22218	ABC	#1/0 ACSR	7.26Y	121.1	0.12	3.94	72.11	31	1502	466	96	1.28	0.1	4.212	0.093	0	0	0	295
PL.21851	PL.22219	A	#4 ACSR	7.26Y	121.1	0.00	3.94	1.83	1	13	4	96	0.00	0.0	4.237	0.025	0	0	0	2
PL.22322	PL.21851	A	#4 ACSR	7.26Y	121.1	0.00	3.94	1.83	1	13	4	96	0.00	0.0	4.242	0.005	0	0	0	2

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Balanced Voltage Drop Report
Source: Hargett

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.3167	PL.22322	A	65T	7.26Y	121.1	0.00	3.94	1.83	0	13	4	96	0.00	0.0	4.242	0.005	0	0	0	2
PL.22323	PD.3167	A	#4 ACSR	7.26Y	121.1	0.00	3.95	1.83	1	13	4	96	0.00	0.0	4.284	0.042	0	0	0	2
PL.21852	PL.22323	A	#4 ACSR	7.26Y	121.1	0.00	3.95	0.42	0	3	1	95	0.00	0.0	4.314	0.031	3	1	1	1
PL.21934	PL.22323	A	#4 ACSR	7.26Y	121.1	0.00	3.95	1.41	1	10	3	96	0.00	0.0	4.308	0.025	10	3	1	1
PL.22081	PL.22219	ABC	#1/0 ACSR	7.26Y	121.0	0.06	4.01	71.50	31	1488	461	96	0.67	0.0	4.262	0.050	20	6	3	293
PL.22359	PL.22081	C	6 A (CWC)	7.26Y	121.0	0.00	4.01	1.20	1	8	3	94	0.00	0.0	4.266	0.005	0	0	0	3
PD.3186	PL.22359	C	65T	7.26Y	121.0	0.00	4.01	1.20	0	8	3	94	0.00	0.0	4.266	0.005	0	0	0	3
PL.22360	PD.3186	C	6 A (CWC)	7.26Y	121.0	0.00	4.01	1.20	1	8	3	94	0.00	0.0	4.328	0.062	0	0	0	3
PL.21850	PL.22360	C	#4 ACSR	7.26Y	121.0	0.00	4.01	1.20	1	8	3	94	0.00	0.0	4.386	0.058	0	0	1	3
PL.22209	PL.21850	C	#4 ACSR	7.26Y	121.0	0.00	4.01	1.19	1	8	2	97	0.00	0.0	4.415	0.029	8	2	2	2
PL.22210	PL.22209	C	#4 ACSR	7.26Y	121.0	0.00	4.01	0.00	0	0	0	100	0.00	0.0	4.453	0.038	0	0	0	0
PL.22082	PL.22081	ABC	#1/0 ACSR	7.25Y	120.9	0.11	4.12	69.72	30	1451	449	96	1.13	0.1	4.349	0.088	0	0	0	286
PL.22312	PL.22082	C	#4 ACSR	7.25Y	120.9	0.00	4.12	0.22	0	2	0	100	0.00	0.0	4.354	0.005	0	0	0	1
PD.3162	PL.22312	C	65T	7.25Y	120.9	0.00	4.12	0.22	0	2	0	100	0.00	0.0	4.354	0.005	0	0	0	1
PL.22313	PD.3162	C	#4 ACSR	7.25Y	120.9	0.00	4.12	0.22	0	2	0	100	0.00	0.0	4.370	0.016	2	0	1	1
PL.22211	PL.22082	ABC	#1/0 ACSR	7.25Y	120.8	0.07	4.19	69.53	30	1446	446	96	0.73	0.1	4.406	0.057	2	1	1	284
PL.22212	PL.22211	ABC	#1/0 ACSR	7.24Y	120.7	0.09	4.28	69.44	30	1443	445	96	0.92	0.1	4.478	0.072	8	2	1	283
PL.22363	PL.22212	C	#4 ACSR	7.24Y	120.7	0.00	4.28	1.23	1	9	3	95	0.00	0.0	4.483	0.004	0	0	0	3
PD.3188	PL.22363	C	65T	7.24Y	120.7	0.00	4.28	1.23	0	9	3	95	0.00	0.0	4.483	0.004	0	0	0	3
PL.22364	PD.3188	C	#4 ACSR	7.24Y	120.7	0.00	4.28	1.23	1	9	3	95	0.00	0.0	4.542	0.060	0	0	0	3
PL.21856	PL.22364	C	#4 ACSR	7.24Y	120.7	0.00	4.29	0.71	1	5	1	98	0.00	0.0	4.576	0.034	5	1	1	1
PL.21935	PL.22364	C	#4 ACSR	7.24Y	120.7	0.00	4.29	0.52	0	4	1	97	0.00	0.0	4.624	0.082	4	1	2	2
PL.22318	PL.22212	A	6 A (CWC)	7.24Y	120.7	0.00	4.28	0.00	0	0	0	100	0.00	0.0	4.483	0.005	0	0	0	0
PD.3165	PL.22318	A	65T	7.24Y	120.7	0.00	4.28	0.00	0	0	0	100	0.00	0.0	4.483	0.005	0	0	0	0
PL.22319	PD.3165	A	6 A (CWC)	7.24Y	120.7	0.00	4.28	0.00	0	0	0	100	0.00	0.0	4.530	0.048	0	0	0	0
PL.22216	PL.22212	ABC	#1/0 ACSR	7.24Y	120.6	0.08	4.36	68.65	30	1425	439	96	0.79	0.1	4.541	0.063	0	0	0	279
PL.22217	PL.22216	ABC	#1/0 ACSR	7.24Y	120.6	0.05	4.41	68.65	30	1425	439	96	0.52	0.0	4.582	0.041	3	1	1	279
PL.22087	PL.22217	ABC	#1/0 ACSR	7.23Y	120.5	0.12	4.53	68.44	30	1420	437	96	1.22	0.1	4.680	0.097	0	0	0	277
PL.21858	PL.22087	ABC	#1/0 ACSR	7.23Y	120.5	0.01	4.54	66.49	29	1378	424	96	0.09	0.0	4.687	0.008	10	3	1	268
PL.22244	PL.21858	ABC	#4 ACSR	7.23Y	120.5	0.00	4.55	1.26	1	26	8	96	0.00	0.0	4.729	0.042	5	2	1	2
PL.22245	PL.22244	ABC	#4 ACSR	7.23Y	120.5	0.00	4.55	1.01	1	21	6	96	0.00	0.0	4.740	0.010	21	6	1	1

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Balanced Voltage Drop Report
Source: Hargett

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.22213	PL.21858	ABC	#1/0 ACSR	7.22Y	120.4	0.07	4.61	64.76	28	1342	413	96	0.67	0.0	4.747	0.060	0	0	1	265
PL.22214	PL.22213	ABC	#1/0 ACSR	7.22Y	120.4	0.03	4.64	64.76	28	1342	412	96	0.26	0.0	4.771	0.024	11	3	3	264
PL.22092	PL.22214	ABC	#1/0 ACSR	7.22Y	120.3	0.10	4.74	62.57	27	1296	398	96	0.89	0.1	4.857	0.086	1	0	1	254
PL.22367	PL.22092	C	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.35	0	2	1	89	0.00	0.0	4.862	0.005	0	0	0	1
PD.3190	PL.22367	C	65T	7.22Y	120.3	0.00	4.74	0.35	0	2	1	89	0.00	0.0	4.862	0.005	0	0	0	1
PL.22368	PD.3190	C	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.35	0	2	1	89	0.00	0.0	4.918	0.057	2	1	1	1
PL.22326	PL.22092	A	#4 ACSR	7.22Y	120.3	0.00	4.74	2.59	2	18	5	96	0.00	0.0	4.861	0.005	0	0	0	3
PD.3169	PL.22326	A	65T	7.22Y	120.3	0.00	4.74	2.59	0	18	5	96	0.00	0.0	4.861	0.005	0	0	0	3
PL.22327	PD.3169	A	#4 ACSR	7.22Y	120.3	0.00	4.75	2.59	2	18	5	96	0.00	0.0	4.924	0.062	18	5	3	3
PL.22093	PL.22092	ABC	#1/0 ACSR	7.21Y	120.2	0.07	4.81	61.52	27	1273	391	96	0.60	0.0	4.916	0.059	0	0	0	249
PL.22220	PL.22093	ABC	#1/0 ACSR	7.21Y	120.2	0.02	4.83	61.31	27	1268	389	96	0.20	0.0	4.936	0.020	8	3	2	248
PL.22221	PL.22220	ABC	#1/0 ACSR	7.20Y	120.1	0.10	4.93	60.90	26	1259	386	96	0.90	0.1	5.027	0.091	0	0	0	246
PL.22287	PL.22221	C	#4 ACSR	7.20Y	120.1	0.00	4.93	2.31	2	16	5	95	0.00	0.0	5.031	0.005	0	0	0	3
PD.3127	PL.22287	C	65T	7.20Y	120.1	0.00	4.93	2.31	0	16	5	95	0.00	0.0	5.031	0.005	0	0	0	3
PL.22288	PD.3127	C	#4 ACSR	7.20Y	120.1	0.00	4.93	2.31	2	16	5	95	0.00	0.0	5.073	0.042	10	3	2	3
PL.21861	PL.22288	C	#4 ACSR	7.20Y	120.1	0.00	4.94	0.81	1	6	2	95	0.00	0.0	5.160	0.087	6	2	1	1
PL.22095	PL.22221	ABC	#1/0 ACSR	7.20Y	120.0	0.11	5.04	59.82	26	1236	378	96	0.96	0.1	5.127	0.101	3	1	1	242
PL.22285	PL.22095	C	#4 ACSR	7.20Y	120.0	0.00	5.04	1.59	1	11	3	96	0.00	0.0	5.132	0.005	0	0	0	1
PD.3126	PL.22285	C	65T	7.20Y	120.0	0.00	5.04	1.59	0	11	3	96	0.00	0.0	5.132	0.005	0	0	0	1
PL.22286	PD.3126	C	#4 ACSR	7.20Y	120.0	0.00	5.04	1.59	1	11	3	96	0.00	0.0	5.180	0.048	11	3	1	1
PL.22096	PL.22095	ABC	#1/0 ACSR	7.19Y	119.9	0.09	5.13	59.14	26	1221	373	96	0.79	0.1	5.212	0.084	0	0	0	240
PL.21936	PL.22096	ABC	#1/0 ACSR	7.19Y	119.8	0.09	5.22	58.06	25	1198	366	96	0.75	0.1	5.296	0.084	15	4	2	237
PL.66258	PL.21936	ABC	#1/0 ACSR	7.18Y	119.7	0.07	5.29	57.35	25	1183	361	96	0.58	0.0	5.362	0.066	0	0	0	235
PD.10006	PL.66258	ABC	100L	7.18Y	119.7	0.00	5.29	57.35	57	1182	360	96	0.00	0.0	5.362	0.066	0	0	0	235
PL.66259	PD.10006	ABC	#1/0 ACSR	7.18Y	119.7	0.02	5.31	57.35	25	1182	360	96	0.20	0.0	5.385	0.023	12	4	3	235
PL.22100	PL.66259	ABC	#1/0 ACSR	7.18Y	119.6	0.07	5.38	54.90	24	1131	345	96	0.54	0.0	5.451	0.067	0	0	0	226
PL.22289	PL.22100	C	6 A (CWC)	7.18Y	119.6	0.00	5.38	7.42	5	51	15	96	0.00	0.0	5.456	0.005	0	0	0	14
PD.3128	PL.22289	C	65T	7.18Y	119.6	0.00	5.38	7.42	0	51	15	96	0.00	0.0	5.456	0.005	0	0	0	14
PL.22290	PD.3128	C	6 A (CWC)	7.18Y	119.6	0.01	5.40	7.42	5	51	15	96	0.01	0.0	5.503	0.046	11	3	3	14
PL.22163	PL.22290	C	#4 ACSR	7.18Y	119.6	0.00	5.40	2.83	2	19	6	95	0.00	0.0	5.518	0.015	14	4	3	5
PL.22164	PL.22163	C	#4 ACSR	7.18Y	119.6	0.00	5.40	0.73	1	5	2	93	0.00	0.0	5.547	0.029	5	2	2	2

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Balanced Voltage Drop Report
Source: Hargett

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.22098	PL.22290	C	6 A (CWC)	7.18Y	119.6	0.01	5.41	3.02	2	21	6	96	0.00	0.0	5.580	0.077	0	0	0	6
PL.21863	PL.22098	C	6 A (CWC)	7.18Y	119.6	0.00	5.41	1.65	1	11	3	96	0.00	0.0	5.623	0.043	11	3	2	2
PL.22158	PL.22098	C	6 A (CWC)	7.18Y	119.6	0.00	5.41	1.37	1	9	3	95	0.00	0.0	5.605	0.026	0	0	2	4
PL.22159	PL.22158	C	6 A (CWC)	7.18Y	119.6	0.00	5.41	1.36	1	9	3	95	0.00	0.0	5.654	0.049	0	0	0	2
PL.22157	PL.22159	C	6 A (CWC)	7.18Y	119.6	0.00	5.42	1.36	1	9	3	95	0.00	0.0	5.707	0.053	0	0	0	2
PL.21864	PL.22157	C	#4 ACSR	7.17Y	119.6	0.00	5.42	0.81	1	6	2	95	0.00	0.0	5.845	0.139	6	2	1	1
PL.21937	PL.22157	C	6 A (CWC)	7.18Y	119.6	0.00	5.42	0.55	0	4	1	97	0.00	0.0	5.729	0.022	4	1	1	1
PL.22101	PL.22100	ABC	#1/0 ACSR	7.17Y	119.5	0.10	5.48	52.43	23	1080	329	96	0.78	0.1	5.558	0.107	0	0	0	212
PL.22283	PL.22101	B	6 A (CWC)	7.17Y	119.5	0.00	5.49	11.91	9	82	25	96	0.00	0.0	5.563	0.005	0	0	0	23
PD.3125	PL.22283	B	65T	7.17Y	119.5	0.00	5.49	11.91	0	82	25	96	0.00	0.0	5.563	0.005	0	0	0	23
PL.22284	PD.3125	B	6 A (CWC)	7.17Y	119.5	0.02	5.51	11.91	9	82	25	96	0.01	0.0	5.605	0.042	0	0	1	23
PL.22160	PL.22284	B	6 A (CWC)	7.17Y	119.5	0.02	5.53	11.86	8	81	24	96	0.01	0.0	5.638	0.034	0	0	0	22
PL.21947	PL.22160	B	#2 ACSR	7.17Y	119.5	0.00	5.53	0.21	0	1	0	100	0.00	0.0	5.643	0.005	0	0	0	1
PD.3134	PL.21947	B	65T	7.17Y	119.5	0.00	5.53	0.21	0	1	0	100	0.00	0.0	5.643	0.005	0	0	0	1
PL.21948	PD.3134	B	#2 ACSR	7.17Y	119.5	0.00	5.53	0.21	0	1	0	100	0.00	0.0	5.683	0.040	1	0	1	1
PL.22102	PL.22160	B	6 A (CWC)	7.17Y	119.5	0.02	5.54	11.65	8	80	24	96	0.01	0.0	5.672	0.033	9	3	3	21
PL.21865	PL.22102	B	6 A (CWC)	7.17Y	119.4	0.02	5.56	10.36	7	71	21	96	0.01	0.0	5.714	0.042	12	4	2	18
PL.22166	PL.21865	B	6 A (CWC)	7.16Y	119.4	0.03	5.59	8.63	6	59	18	96	0.01	0.0	5.786	0.072	11	3	2	16
PL.22167	PL.22166	B	6 A (CWC)	7.16Y	119.4	0.01	5.60	7.03	5	48	15	95	0.00	0.0	5.832	0.046	12	4	1	14
PL.22168	PL.22167	B	6 A (CWC)	7.16Y	119.4	0.00	5.60	5.30	4	36	11	96	0.00	0.0	5.853	0.021	36	11	13	13
PL.21938	PL.22101	ABC	#1/0 ACSR	7.16Y	119.4	0.13	5.61	48.46	21	997	304	96	0.91	0.1	5.704	0.145	0	0	0	189
PL.22029	PL.21938	ABC	#1/0 ACSR	7.16Y	119.3	0.06	5.67	48.19	21	991	301	96	0.44	0.0	5.774	0.070	0	0	0	188
PL.22030	PL.22029	ABC	#1/0 ACSR	7.16Y	119.3	0.02	5.69	47.76	21	981	298	96	0.11	0.0	5.793	0.019	7	2	1	187
PL.21867	PL.22030	ABC	#1/0 ACSR	7.16Y	119.3	0.01	5.70	7.67	3	158	47	96	0.02	0.0	5.896	0.104	0	0	0	33
PL.22371	PL.21867	C	6 A (CWC)	7.16Y	119.3	0.00	5.71	1.26	1	9	3	95	0.00	0.0	5.901	0.005	0	0	0	2
PD.3192	PL.22371	C	65T	7.16Y	119.3	0.00	5.71	1.26	0	9	3	95	0.00	0.0	5.901	0.005	0	0	0	2
PL.22372	PD.3192	C	6 A (CWC)	7.16Y	119.3	0.00	5.71	1.26	1	9	3	95	0.00	0.0	5.945	0.044	9	3	2	2
PL.21945	PL.21867	A	6 A (CWC)	7.16Y	119.3	0.00	5.71	1.13	1	8	2	97	0.00	0.0	5.901	0.005	0	0	0	1
PD.3133	PL.21945	A	65T	7.16Y	119.3	0.00	5.71	1.13	0	8	2	97	0.00	0.0	5.901	0.005	0	0	0	1
PL.21946	PD.3133	A	6 A (CWC)	7.16Y	119.3	0.00	5.71	1.13	1	8	2	97	0.00	0.0	5.954	0.053	8	2	1	1
PL.22103	PL.21867	ABC	#1/0 ACSR	7.16Y	119.3	0.01	5.72	6.88	3	141	43	96	0.01	0.0	5.985	0.088	3	1	1	30

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.21949	PL.22103	C	6 A (CWC)	7.16Y	119.3	0.00	5.72	1.95	1	13	4	96	0.00	0.0	5.989	0.005	0	0	0	3
PD.3135	PL.21949	C	65T	7.16Y	119.3	0.00	5.72	1.95	0	13	4	96	0.00	0.0	5.989	0.005	0	0	0	3
PL.21950	PD.3135	C	6 A (CWC)	7.16Y	119.3	0.01	5.73	1.95	1	13	4	96	0.00	0.0	6.127	0.138	0	0	0	3
PL.21868	PL.21950	C	6 A (CWC)	7.16Y	119.3	0.00	5.73	1.95	1	13	4	96	0.00	0.0	6.170	0.042	5	2	2	3
PL.21953	PL.21868	C	#4 ACSR	7.16Y	119.3	0.00	5.73	1.17	1	8	2	97	0.00	0.0	6.174	0.005	0	0	0	1
PD.3137	PL.21953	C	40T	7.16Y	119.3	0.00	5.73	1.17	0	8	2	97	0.00	0.0	6.174	0.005	0	0	0	1
PL.21954	PD.3137	C	#4 ACSR	7.16Y	119.3	0.01	5.74	1.17	1	8	2	97	0.00	0.0	6.285	0.111	0	0	0	1
PL.21870	PL.21954	C	#4 ACSR	7.16Y	119.3	0.01	5.74	1.17	1	8	2	97	0.00	0.0	6.408	0.123	0	0	0	1
PL.22052	PL.21870	C	#4 ACSR	7.15Y	119.2	0.01	5.75	1.17	1	8	2	97	0.00	0.0	6.552	0.144	0	0	0	1
PL.22053	PL.22052	C	#4 ACSR	7.15Y	119.2	0.00	5.76	1.17	1	8	2	97	0.00	0.0	6.646	0.094	0	0	0	1
PL.22061	PL.22053	C	#4 ACSR	7.15Y	119.2	0.00	5.76	1.17	1	8	2	97	0.00	0.0	6.742	0.095	0	0	0	1
PL.22054	PL.22061	C	#4 ACSR	7.15Y	119.2	0.00	5.77	1.17	1	8	2	97	0.00	0.0	6.881	0.140	8	2	1	1
PL.21869	PL.21950	C	6 A (CWC)	7.16Y	119.3	0.00	5.73	0.00	0	0	0	100	0.00	0.0	6.206	0.079	0	0	0	0
PL.22104	PL.22103	ABC	#1/0 ACSR	7.16Y	119.3	0.01	5.73	6.06	3	125	37	96	0.01	0.0	6.092	0.107	0	0	0	26
PL.22173	PL.22104	ABC	#1/0 ACSR	7.16Y	119.3	0.01	5.73	5.21	2	107	32	96	0.00	0.0	6.166	0.074	26	8	4	22
PL.22174	PL.22173	ABC	#1/0 ACSR	7.16Y	119.3	0.00	5.74	3.93	2	81	24	96	0.00	0.0	6.224	0.058	2	1	2	18
PL.21955	PL.22174	C	6 A (CWC)	7.16Y	119.3	0.00	5.74	2.08	1	14	4	96	0.00	0.0	6.228	0.005	0	0	0	3
PD.3138	PL.21955	C	65T	7.16Y	119.3	0.00	5.74	2.08	0	14	4	96	0.00	0.0	6.228	0.005	0	0	0	3
PL.21956	PD.3138	C	6 A (CWC)	7.16Y	119.3	0.00	5.74	2.08	1	14	4	96	0.00	0.0	6.267	0.039	7	2	1	3
PL.22169	PL.21956	C	#4 ACSR	7.16Y	119.3	0.01	5.75	1.05	1	7	2	96	0.00	0.0	6.389	0.121	0	0	1	2
PL.22170	PL.22169	C	#4 ACSR	7.16Y	119.3	0.00	5.75	1.01	1	7	2	96	0.00	0.0	6.441	0.053	7	2	1	1
PL.22171	PL.22174	ABC	#1/0 ACSR	7.16Y	119.3	0.00	5.74	2.88	1	59	18	96	0.00	0.0	6.287	0.063	3	1	2	12
PL.22172	PL.22171	ABC	#1/0 ACSR	7.16Y	119.3	0.00	5.74	2.72	1	56	17	96	0.00	0.0	6.346	0.060	7	2	3	10
PL.21876	PL.22172	ABC	#1/0 ACSR	7.16Y	119.3	0.00	5.75	2.37	1	49	15	96	0.00	0.0	6.399	0.053	0	0	0	7
PL.21957	PL.21876	A	6 A (CWC)	7.16Y	119.3	0.00	5.75	5.02	4	34	10	96	0.00	0.0	6.404	0.005	0	0	0	6
PD.3139	PL.21957	A	65T	7.16Y	119.3	0.00	5.75	5.02	0	34	10	96	0.00	0.0	6.404	0.005	0	0	0	6
PL.21958	PD.3139	A	6 A (CWC)	7.15Y	119.2	0.01	5.75	5.02	4	34	10	96	0.00	0.0	6.439	0.035	10	3	2	6
PL.21879	PL.21958	A	6 A (CWC)	7.15Y	119.2	0.00	5.76	1.67	1	11	3	96	0.00	0.0	6.468	0.029	11	3	2	2
PL.21878	PL.21958	A	6 A (CWC)	7.15Y	119.2	0.00	5.76	1.82	1	12	4	95	0.00	0.0	6.468	0.030	12	4	2	2
PL.21774	PL.21876	ABC	#1/0 ACSR	7.16Y	119.3	0.00	5.75	0.00	0	0	0	100	0.00	0.0	6.444	0.045	0	0	0	0
PD.3202-A	PL.21774	ABC	Open	7.16Y	119.3	0.00	5.75	0.00	0	0	0	100	0.00	0.0	6.444	0.045	0	0	0	0

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Balanced Voltage Drop Report
Source: Hargett

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.21877	PL.21876	A	6 A (CWC)	7.16Y	119.3	0.00	5.75	2.08	1	14	4	96	0.00	0.0	6.455	0.055	14	4	1	1
PL.22375	PL.22174	A	#2 ACSR	7.16Y	119.3	0.00	5.74	0.76	0	5	2	93	0.00	0.0	6.228	0.005	0	0	0	1
PD.3194	PL.22375	A	65T	7.16Y	119.3	0.00	5.74	0.76	0	5	2	93	0.00	0.0	6.228	0.005	0	0	0	1
PL.21759	PD.3194	A	#2 ACSR	7.16Y	119.3	0.00	5.74	0.76	0	5	2	93	0.00	0.0	6.310	0.082	5	2	1	1
PL.22373	PL.22104	A	6 A (CWC)	7.16Y	119.3	0.00	5.73	0.98	1	7	2	96	0.00	0.0	6.096	0.005	0	0	0	2
PD.3193	PL.22373	A	65T	7.16Y	119.3	0.00	5.73	0.98	0	7	2	96	0.00	0.0	6.096	0.005	0	0	0	2
PL.22374	PD.3193	A	6 A (CWC)	7.16Y	119.3	0.00	5.73	0.98	1	7	2	96	0.00	0.0	6.158	0.061	7	2	2	2
PL.21951	PL.22104	C	1/0 AL URD	7.16Y	119.3	0.00	5.73	1.58	1	11	3	96	0.00	0.0	6.096	0.005	0	0	0	2
PD.3136	PL.21951	C	65T	7.16Y	119.3	0.00	5.73	1.58	0	11	3	96	0.00	0.0	6.096	0.005	0	0	0	2
PL.21952	PD.3136	C	1/0 AL URD	7.16Y	119.3	0.00	5.73	1.58	1	11	3	96	0.00	0.0	6.133	0.037	11	3	2	2
PL.21866	PL.22030	ABC	#1/0 ACSR	7.15Y	119.2	0.07	5.76	39.75	17	817	248	96	0.40	0.0	5.888	0.095	3	1	2	153
PL.21880	PL.21866	ABC	#1/0 ACSR	7.15Y	119.2	0.05	5.81	39.06	17	802	244	96	0.29	0.0	5.959	0.071	0	0	0	149
PL.22031	PL.21880	ABC	#1/0 ACSR	7.15Y	119.1	0.08	5.89	36.90	16	757	230	96	0.42	0.1	6.075	0.116	5	2	2	142
PL.22097	PL.22031	ABC	#1/0 ACSR	7.14Y	119.0	0.07	5.95	36.64	16	752	228	96	0.35	0.0	6.173	0.098	10	3	2	140
PL.22151	PL.22097	ABC	#1/0 ACSR	7.14Y	119.0	0.05	6.00	35.25	15	723	219	96	0.25	0.0	6.250	0.077	2	0	1	136
PL.22152	PL.22151	ABC	#1/0 ACSR	7.14Y	118.9	0.07	6.07	35.17	15	721	219	96	0.34	0.0	6.353	0.103	0	0	0	135
PL.22277	PL.22152	C	6 A (CWC)	7.14Y	118.9	0.00	6.07	6.32	5	43	13	96	0.00	0.0	6.357	0.005	0	0	0	7
PD.3122	PL.22277	C	65T	7.14Y	118.9	0.00	6.07	6.32	0	43	13	96	0.00	0.0	6.357	0.005	0	0	0	7
PL.22278	PD.3122	C	6 A (CWC)	7.13Y	118.9	0.02	6.09	6.32	5	43	13	96	0.01	0.0	6.416	0.059	0	0	0	7
PL.21883	PL.22278	C	#4 ACSR	7.13Y	118.9	0.01	6.09	6.32	5	43	13	96	0.00	0.0	6.436	0.019	0	0	0	7
PL.22149	PL.21883	C	#4 ACSR	7.13Y	118.9	0.01	6.10	5.09	4	35	10	96	0.00	0.0	6.476	0.040	18	5	3	6
PL.22150	PL.22149	C	#4 ACSR	7.13Y	118.9	0.00	6.10	2.45	2	17	5	96	0.00	0.0	6.507	0.031	17	5	3	3
PL.21884	PL.21883	C	#4 ACSR	7.13Y	118.9	0.00	6.09	1.23	1	8	3	94	0.00	0.0	6.476	0.040	8	3	1	1
PL.22033	PL.22152	ABC	#1/0 ACSR	7.13Y	118.9	0.06	6.13	33.06	14	677	205	96	0.30	0.0	6.457	0.104	0	0	0	128
PL.22275	PL.22033	A	#4 ACSR	7.13Y	118.9	0.00	6.13	1.00	1	7	2	96	0.00	0.0	6.461	0.005	0	0	0	4
PD.3121	PL.22275	A	65T	7.13Y	118.9	0.00	6.13	1.00	0	7	2	96	0.00	0.0	6.461	0.005	0	0	0	4
PL.22276	PD.3121	A	#4 ACSR	7.13Y	118.9	0.00	6.13	1.00	1	7	2	96	0.00	0.0	6.514	0.053	7	2	4	4
PL.22145	PL.22033	ABC	#1/0 ACSR	7.13Y	118.8	0.02	6.15	32.73	14	670	203	96	0.11	0.0	6.496	0.039	13	4	1	124
PL.22146	PL.22145	ABC	#1/0 ACSR	7.13Y	118.8	0.09	6.24	32.11	14	658	199	96	0.41	0.1	6.645	0.149	4	1	2	123
PL.22273	PL.22146	A	6 A (CWC)	7.13Y	118.8	0.00	6.25	21.44	15	146	44	96	0.01	0.0	6.650	0.005	0	0	0	23
PD.3120	PL.22273	A	65T	7.13Y	118.8	0.00	6.25	21.44	0	146	44	96	0.00	0.0	6.650	0.005	0	0	0	23

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Balanced Voltage Drop Report
Source: Hargett

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.22274	PD.3120	A	6 A (CWC)	7.12Y	118.7	0.04	6.29	21.44	15	146	44	96	0.05	0.0	6.695	0.046	11	3	1	23
PL.21885	PL.22274	A	6 A (CWC)	7.12Y	118.7	0.01	6.30	6.73	5	46	14	96	0.00	0.0	6.735	0.040	25	8	5	8
PL.21888	PL.21885	A	6 A (CWC)	7.12Y	118.7	0.00	6.30	3.03	2	21	6	96	0.00	0.0	6.806	0.071	21	6	3	3
PL.22142	PL.22274	A	6 A (CWC)	7.12Y	118.7	0.00	6.29	1.77	1	12	4	95	0.00	0.0	6.730	0.035	8	2	2	3
PL.22147	PL.22142	A	6 A (CWC)	7.12Y	118.7	0.00	6.29	0.64	0	4	1	97	0.00	0.0	6.769	0.039	4	1	1	1
PL.22148	PL.22147	A	6 A (CWC)	7.12Y	118.7	0.00	6.29	0.00	0	0	0	100	0.00	0.0	6.807	0.038	0	0	0	0
PL.22094	PL.22274	A	6 A (CWC)	7.12Y	118.7	0.03	6.32	11.32	8	77	23	96	0.02	0.0	6.760	0.065	17	5	3	11
PL.21886	PL.22094	A	6 A (CWC)	7.12Y	118.7	0.01	6.33	4.00	3	27	8	96	0.00	0.0	6.814	0.053	14	4	2	3
PL.21887	PL.21886	A	#4 ACSR	7.12Y	118.7	0.00	6.33	2.00	2	14	4	96	0.00	0.0	6.851	0.037	14	4	1	1
PL.22143	PL.22094	A	6 A (CWC)	7.12Y	118.7	0.01	6.33	4.86	3	33	10	96	0.00	0.0	6.804	0.043	17	5	2	5
PL.22144	PL.22143	A	6 A (CWC)	7.12Y	118.7	0.00	6.33	2.37	2	16	5	95	0.00	0.0	6.843	0.039	16	5	2	3
PL.21889	PL.22144	A	6 A (CWC)	7.12Y	118.7	0.00	6.33	0.00	0	0	0	100	0.00	0.0	6.875	0.032	0	0	0	1
PL.21890	PL.21889	A	#4 ACSR	7.12Y	118.7	0.00	6.33	0.00	0	0	0	100	0.00	0.0	6.928	0.053	0	0	1	1
PL.22153	PL.22146	ABC	#1/0 ACSR	7.12Y	118.7	0.04	6.28	24.76	11	507	153	96	0.15	0.0	6.740	0.095	21	6	2	98
PL.22154	PL.22153	ABC	#1/0 ACSR	7.12Y	118.7	0.02	6.30	23.72	10	485	147	96	0.06	0.0	6.777	0.037	2	0	1	96
PL.22271	PL.22154	A	6 A (CWC)	7.12Y	118.7	0.00	6.30	1.40	1	10	3	96	0.00	0.0	6.782	0.005	0	0	0	1
PD.3119	PL.22271	A	65T	7.12Y	118.7	0.00	6.30	1.40	0	10	3	96	0.00	0.0	6.782	0.005	0	0	0	1
PL.22272	PD.3119	A	6 A (CWC)	7.12Y	118.7	0.00	6.30	1.40	1	10	3	96	0.00	0.0	6.873	0.091	10	3	1	1
PL.21891	PL.22154	ABC	#1/0 ACSR	7.12Y	118.7	0.04	6.34	23.17	10	474	143	96	0.15	0.0	6.881	0.104	0	0	0	94
PL.21776	PL.21891	C	6 A (CWC)	7.12Y	118.6	0.03	6.37	23.85	17	163	49	96	0.03	0.0	6.904	0.023	0	0	0	32
PD.3203	PL.21776	C	35L	7.12Y	118.6	0.00	6.37	23.85	68	163	49	96	0.00	0.0	6.904	0.023	0	0	0	32
PL.21777	PD.3203	C	6 A (CWC)	7.11Y	118.6	0.07	6.44	23.85	17	163	49	96	0.09	0.1	6.971	0.067	0	0	0	32
PL.22134	PL.21777	C	6 A (CWC)	7.11Y	118.5	0.04	6.49	23.85	17	162	49	96	0.05	0.0	7.011	0.040	0	0	0	32
PL.21897	PL.22134	C	#1/0 ACSR	7.11Y	118.5	0.00	6.49	1.13	0	8	2	97	0.00	0.0	7.070	0.059	8	2	1	1
PL.22084	PL.22134	C	6 A (CWC)	7.10Y	118.4	0.13	6.62	22.72	16	155	47	96	0.16	0.1	7.140	0.129	0	0	0	31
PL.22088	PL.22084	C	6 A (CWC)	7.10Y	118.4	0.02	6.64	7.20	5	49	15	96	0.01	0.0	7.209	0.070	1	0	1	13
PL.22089	PL.22088	C	6 A (CWC)	7.10Y	118.4	0.00	6.64	0.04	0	0	0	100	0.00	0.0	7.265	0.056	0	0	1	1
PL.22090	PL.22088	C	6 A (CWC)	7.10Y	118.3	0.02	6.66	6.95	5	47	14	96	0.01	0.0	7.272	0.063	7	2	3	11
PL.22125	PL.22090	C	6 A (CWC)	7.10Y	118.3	0.00	6.66	1.43	1	10	3	96	0.00	0.0	7.298	0.026	1	0	1	3
PL.22126	PL.22125	C	6 A (CWC)	7.10Y	118.3	0.00	6.67	1.34	1	9	3	95	0.00	0.0	7.355	0.057	9	3	2	2
PL.22124	PL.22090	C	#4 ACSR	7.10Y	118.3	0.01	6.67	4.53	3	31	9	96	0.00	0.0	7.337	0.065	10	3	2	5

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Balanced Voltage Drop Report
Source: Hargett

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.22123	PL.22124	C	#4 ACSR	7.10Y	118.3	0.00	6.68	3.06	2	21	6	96	0.00	0.0	7.399	0.062	21	6	3	3
PL.22122	PL.22084	C	6 A (CWC)	7.10Y	118.3	0.09	6.71	15.52	11	106	32	96	0.07	0.1	7.267	0.127	8	2	1	18
PL.22121	PL.22122	C	6 A (CWC)	7.09Y	118.2	0.08	6.79	14.35	10	97	29	96	0.06	0.1	7.383	0.116	0	0	0	17
PL.22085	PL.22121	C	#4 ACSR	7.09Y	118.2	0.01	6.79	1.67	1	11	3	96	0.00	0.0	7.509	0.127	0	0	0	2
PL.22055	PL.22085	C	#4 ACSR	7.09Y	118.2	0.01	6.81	1.67	1	11	3	96	0.00	0.0	7.680	0.171	0	0	0	2
PL.22118	PL.22055	C	#4 ACSR	7.09Y	118.2	0.01	6.82	1.67	1	11	3	96	0.00	0.0	7.865	0.184	5	2	1	2
PL.22117	PL.22118	C	#4 ACSR	7.09Y	118.2	0.00	6.82	0.90	1	6	2	95	0.00	0.0	7.962	0.097	6	2	1	1
PL.22086	PL.22121	C	#4 ACSR	7.09Y	118.2	0.02	6.80	12.68	10	86	26	96	0.01	0.0	7.411	0.028	8	2	1	15
PL.21894	PL.22086	C	6 A (CWC)	7.09Y	118.1	0.05	6.85	11.49	8	78	23	96	0.03	0.0	7.507	0.096	1	0	1	14
PL.22119	PL.21894	C	6 A (CWC)	7.09Y	118.1	0.01	6.86	11.41	8	77	23	96	0.01	0.0	7.531	0.025	7	2	1	13
PL.22120	PL.22119	C	6 A (CWC)	7.09Y	118.1	0.02	6.88	10.36	7	70	21	96	0.01	0.0	7.571	0.040	0	0	0	12
PL.22127	PL.22120	C	6 A (CWC)	7.08Y	118.1	0.06	6.95	9.37	7	64	19	96	0.03	0.0	7.728	0.157	9	3	2	11
PL.22128	PL.22127	C	6 A (CWC)	7.08Y	118.0	0.01	6.95	8.08	6	55	16	96	0.00	0.0	7.750	0.021	11	3	2	9
PL.22129	PL.22128	C	6 A (CWC)	7.08Y	118.0	0.01	6.97	6.47	5	44	13	96	0.00	0.0	7.797	0.047	7	2	2	7
PL.22267	PL.22129	C	#1/0 ACSR	7.08Y	118.0	0.00	6.97	0.51	0	3	1	95	0.00	0.0	7.801	0.005	0	0	0	1
PD.3117	PL.22267	C	15T	7.08Y	118.0	0.00	6.97	0.51	0	3	1	95	0.00	0.0	7.801	0.005	0	0	0	1
PL.22268	PD.3117	C	#1/0 ACSR	7.08Y	118.0	0.00	6.97	0.51	0	3	1	95	0.00	0.0	7.873	0.071	3	1	1	1
PL.21896	PL.22129	C	6 A (CWC)	7.08Y	118.0	0.00	6.97	4.87	3	33	10	96	0.00	0.0	7.836	0.039	33	10	4	4
PL.21895	PL.22120	C	#1/0 ACSR	7.09Y	118.1	0.00	6.88	1.00	0	7	2	96	0.00	0.0	7.635	0.064	7	2	1	1
PL.22135	PL.21891	A	6 A (CWC)	7.11Y	118.6	0.10	6.44	43.37	31	295	90	96	0.22	0.1	6.930	0.049	0	0	1	59
PL.21778	PL.22135	A	6 A (CWC)	7.11Y	118.4	0.14	6.58	43.32	31	295	89	96	0.31	0.1	6.998	0.068	0	0	0	58
PD.3204	PL.21778	A	70L	7.11Y	118.4	0.00	6.58	43.32	62	295	89	96	0.00	0.0	6.998	0.068	0	0	0	58
PL.21779	PD.3204	A	6 A (CWC)	7.10Y	118.3	0.12	6.70	43.32	31	295	89	96	0.27	0.1	7.058	0.060	8	2	1	58
PL.21898	PL.21779	A	#2 ACSR	7.10Y	118.3	0.00	6.70	0.81	0	5	2	93	0.00	0.0	7.217	0.159	0	0	0	1
PL.22056	PL.21898	A	#2 ACSR	7.10Y	118.3	0.00	6.70	0.81	0	5	2	93	0.00	0.0	7.271	0.054	5	2	1	1
PL.22083	PL.21779	A	6 A (CWC)	7.09Y	118.2	0.15	6.84	41.31	30	281	85	96	0.32	0.1	7.135	0.077	1	0	2	56
REG59	PL.22083	A	76.2 KVA	7.51Y	125.2	-7.04	-0.20	41.20	41	280	84	96	percent Boost= 5.62 Tap= 9.0							54
PL.21899	REG59	A	6 A (CWC)	7.50Y	125.1	0.14	-0.06	38.88	28	280	84	96	0.29	0.1	7.215	0.080	0	0	0	54
PL.22132	PL.21899	A	6 A (CWC)	7.50Y	125.0	0.01	-0.05	37.70	27	271	82	96	0.02	0.0	7.222	0.007	7	2	3	53
PL.22133	PL.22132	A	6 A (CWC)	7.49Y	124.9	0.15	0.10	36.77	26	264	80	96	0.28	0.1	7.308	0.086	0	0	0	50
PL.22130	PL.22133	A	6 A (CWC)	7.49Y	124.9	0.00	0.10	2.29	2	16	5	95	0.00	0.0	7.319	0.012	10	3	1	3

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.22131	PL.22130	A	6 A (CWC)	7.49Y	124.9	0.00	0.10	0.86	1	6	2	95	0.00	0.0	7.363	0.044	6	2	2	2
PL.21913	PL.22133	A	#4 ACSR	7.49Y	124.8	0.08	0.18	34.47	27	247	75	96	0.15	0.1	7.361	0.053	0	0	0	47
PL.22079	PL.21913	A	#4 ACSR	7.49Y	124.8	0.02	0.20	10.19	8	73	22	96	0.01	0.0	7.399	0.039	12	3	1	14
PL.22249	PL.22079	A	#4 ACSR	7.49Y	124.8	0.00	0.20	1.34	1	10	3	96	0.00	0.0	7.439	0.039	6	2	1	3
PL.22248	PL.22249	A	#4 ACSR	7.49Y	124.8	0.00	0.20	0.52	0	4	1	97	0.00	0.0	7.468	0.029	4	1	2	2
PL.22080	PL.22079	A	#4 ACSR	7.49Y	124.8	0.01	0.21	7.23	6	52	16	96	0.00	0.0	7.436	0.036	23	7	3	10
PL.21914	PL.22080	A	#2 ACSR	7.49Y	124.8	0.00	0.21	1.00	1	7	2	96	0.00	0.0	7.521	0.086	7	2	1	1
PL.22106	PL.22080	A	#4 ACSR	7.49Y	124.8	0.01	0.22	2.96	2	21	6	96	0.00	0.0	7.520	0.085	8	2	3	6
PL.22107	PL.22106	A	#4 ACSR	7.49Y	124.8	0.01	0.22	1.90	1	14	4	96	0.00	0.0	7.638	0.118	8	3	1	3
PL.22105	PL.22107	A	#4 ACSR	7.49Y	124.8	0.00	0.23	0.73	1	5	2	93	0.00	0.0	7.699	0.060	0	0	1	2
PL.22265	PL.22105	A	#4 ACSR	7.49Y	124.8	0.00	0.23	0.73	1	5	2	93	0.00	0.0	7.703	0.005	0	0	0	1
PD.3116	PL.22265	A	20T	7.49Y	124.8	0.00	0.23	0.73	0	5	2	93	0.00	0.0	7.703	0.005	0	0	0	1
PL.22266	PD.3116	A	#4 ACSR	7.49Y	124.8	0.00	0.23	0.73	1	5	2	93	0.00	0.0	7.804	0.101	0	0	0	1
PL.22057	PL.22266	A	#4 ACSR	7.49Y	124.8	0.00	0.23	0.73	1	5	2	93	0.00	0.0	7.948	0.145	0	0	0	1
PL.22058	PL.22057	A	#4 ACSR	7.49Y	124.8	0.00	0.24	0.73	1	5	2	93	0.00	0.0	8.066	0.118	0	0	0	1
PL.22059	PL.22058	A	#4 ACSR	7.49Y	124.8	0.00	0.24	0.73	1	5	2	93	0.00	0.0	8.156	0.090	5	2	1	1
PL.22078	PL.21913	A	#4 ACSR	7.48Y	124.7	0.15	0.33	24.29	19	174	52	96	0.19	0.1	7.496	0.135	0	0	1	33
PL.22077	PL.22078	A	#4 ACSR	7.48Y	124.7	0.00	0.33	0.96	1	7	2	96	0.00	0.0	7.507	0.012	7	2	2	2
PL.22269	PL.22078	A	#4 ACSR	7.48Y	124.7	0.00	0.33	23.29	18	167	50	96	0.01	0.0	7.500	0.005	0	0	0	30
PD.3118	PL.22269	A	20T	7.48Y	124.7	0.00	0.33	23.29	0	167	50	96	0.00	0.0	7.500	0.005	0	0	0	30
PL.22270	PD.3118	A	#4 ACSR	7.47Y	124.6	0.10	0.44	23.29	18	167	50	96	0.13	0.1	7.599	0.098	0	0	1	30
PL.22137	PL.22270	A	#4 ACSR	7.47Y	124.5	0.03	0.47	19.86	15	142	43	96	0.03	0.0	7.638	0.040	20	6	3	24
PL.22138	PL.22137	A	#4 ACSR	7.47Y	124.4	0.10	0.57	17.06	13	122	37	96	0.09	0.1	7.766	0.128	0	0	1	21
PL.22114	PL.22138	A	#4 ACSR	7.46Y	124.4	0.03	0.60	17.03	13	122	37	96	0.03	0.0	7.808	0.042	7	2	1	20
PL.22113	PL.22114	A	#4 ACSR	7.46Y	124.4	0.02	0.62	16.10	12	115	35	96	0.02	0.0	7.838	0.030	0	0	0	19
PL.22263	PL.22113	A	#2 ACSR	7.46Y	124.4	0.00	0.62	16.10	9	115	35	96	0.00	0.0	7.843	0.004	0	0	0	19
PD.3115	PL.22263	A	30T	7.46Y	124.4	0.00	0.62	16.10	0	115	35	96	0.00	0.0	7.843	0.004	0	0	0	19
PL.22264	PD.3115	A	#2 ACSR	7.46Y	124.3	0.03	0.65	16.10	9	115	35	96	0.03	0.0	7.904	0.062	0	0	0	19
PL.21902	PL.22264	A	#1/0 ACSR	7.46Y	124.3	0.00	0.65	0.72	0	5	2	93	0.00	0.0	7.952	0.048	5	2	1	1
PL.22034	PL.22264	A	#2 ACSR	7.46Y	124.3	0.02	0.67	14.21	8	102	31	96	0.01	0.0	7.948	0.044	0	0	0	17
PL.22111	PL.22034	A	#4 ACSR	7.46Y	124.3	0.03	0.70	10.82	8	77	23	96	0.02	0.0	8.013	0.065	9	3	1	14

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Balanced Voltage Drop Report
Source: Hargett

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.22112	PL.22111	A	#4 ACSR	7.46Y	124.3	0.01	0.71	9.56	7	68	21	96	0.01	0.0	8.040	0.026	0	0	0	13
PL.22072	PL.22112	A	#4 ACSR	7.46Y	124.3	0.03	0.75	8.04	6	57	17	96	0.01	0.0	8.129	0.089	0	0	0	10
PL.21904	PL.22072	A	#2 ACSR	7.46Y	124.3	0.00	0.75	0.74	0	5	2	93	0.00	0.0	8.162	0.033	5	2	1	1
PL.22110	PL.22072	A	#4 ACSR	7.45Y	124.2	0.01	0.76	7.29	6	52	16	96	0.00	0.0	8.168	0.040	1	0	1	9
PL.22115	PL.22110	A	#4 ACSR	7.45Y	124.2	0.02	0.78	7.18	6	51	15	96	0.01	0.0	8.224	0.055	9	3	1	8
PL.22116	PL.22115	A	#4 ACSR	7.45Y	124.2	0.01	0.79	5.96	5	43	13	96	0.00	0.0	8.261	0.038	0	0	0	7
PL.21905	PL.22116	A	#1/0 ACSR	7.45Y	124.2	0.00	0.79	1.81	1	13	4	96	0.00	0.0	8.327	0.066	13	4	2	2
PL.22036	PL.22116	A	#4 ACSR	7.45Y	124.2	0.01	0.79	2.83	2	20	6	96	0.00	0.0	8.332	0.071	0	0	0	4
PL.21907	PL.22036	A	#2 ACSR	7.45Y	124.2	0.00	0.79	0.06	0	0	0	100	0.00	0.0	8.364	0.032	0	0	1	1
PL.22037	PL.22036	A	#4 ACSR	7.45Y	124.2	0.01	0.80	2.77	2	20	6	96	0.00	0.0	8.377	0.045	0	0	0	3
PL.22038	PL.22037	A	#4 ACSR	7.45Y	124.2	0.01	0.81	1.68	1	12	4	95	0.00	0.0	8.453	0.077	0	0	0	2
PL.22039	PL.22038	A	#4 ACSR	7.45Y	124.2	0.00	0.81	1.68	1	12	4	95	0.00	0.0	8.501	0.047	0	0	0	2
PL.22040	PL.22039	A	#4 ACSR	7.45Y	124.2	0.00	0.81	1.68	1	12	4	95	0.00	0.0	8.539	0.038	0	0	0	2
PL.22041	PL.22040	A	#4 ACSR	7.45Y	124.2	0.00	0.81	0.71	1	5	2	93	0.00	0.0	8.584	0.045	5	2	1	1
PL.21912	PL.22040	A	#4 ACSR	7.45Y	124.2	0.00	0.81	0.96	1	7	2	96	0.00	0.0	8.585	0.046	7	2	1	1
PL.21909	PL.22038	A	#4 ACSR	7.45Y	124.2	0.00	0.81	0.00	0	0	0	100	0.00	0.0	8.497	0.043	0	0	0	0
PL.21908	PL.22037	A	#1/0 ACSR	7.45Y	124.2	0.00	0.80	1.10	0	8	2	97	0.00	0.0	8.404	0.027	8	2	1	1
PL.21906	PL.22116	A	#4 ACSR	7.45Y	124.2	0.00	0.79	1.32	1	9	3	95	0.00	0.0	8.311	0.050	9	3	1	1
PL.22261	PL.22112	A	#4 ACSR	7.46Y	124.3	0.00	0.71	1.52	1	11	3	96	0.00	0.0	8.044	0.005	0	0	0	3
PD.3114	PL.22261	A	12T	7.46Y	124.3	0.00	0.71	1.52	0	11	3	96	0.00	0.0	8.044	0.005	0	0	0	3
PL.22262	PD.3114	A	#4 ACSR	7.46Y	124.3	0.00	0.72	1.52	1	11	3	96	0.00	0.0	8.111	0.067	0	0	0	3
PL.21903	PL.22262	A	#2 ACSR	7.46Y	124.3	0.00	0.72	1.21	1	9	3	95	0.00	0.0	8.154	0.043	9	3	1	1
PL.22108	PL.22262	A	#4 ACSR	7.46Y	124.3	0.00	0.72	0.31	0	2	1	89	0.00	0.0	8.237	0.126	2	1	2	2
PL.22109	PL.22108	A	#4 ACSR	7.46Y	124.3	0.00	0.72	0.00	0	0	0	100	0.00	0.0	8.353	0.116	0	0	0	0
PL.22035	PL.22034	A	#2 ACSR	7.46Y	124.3	0.00	0.67	1.12	1	8	2	97	0.00	0.0	7.965	0.017	8	2	1	1
PL.22246	PL.22034	A	#4 ACSR	7.46Y	124.3	0.00	0.68	2.28	2	16	5	95	0.00	0.0	8.002	0.054	9	3	1	2
PL.22247	PL.22246	A	#4 ACSR	7.46Y	124.3	0.00	0.68	0.96	1	7	2	96	0.00	0.0	8.041	0.040	7	2	1	1
PL.21901	PL.22264	A	#2 ACSR	7.46Y	124.3	0.00	0.65	1.17	1	8	3	94	0.00	0.0	7.921	0.017	8	3	1	1
PL.22136	PL.22270	A	#4 ACSR	7.47Y	124.6	0.01	0.44	3.43	3	25	7	96	0.00	0.0	7.651	0.052	0	0	0	5
PL.22139	PL.22136	A	#4 ACSR	7.47Y	124.5	0.01	0.45	3.43	3	25	7	96	0.00	0.0	7.726	0.075	20	6	3	5
PL.22141	PL.22139	A	#4 ACSR	7.47Y	124.5	0.00	0.45	0.61	0	4	1	97	0.00	0.0	7.747	0.021	0	0	1	2

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Balanced Voltage Drop Report
Source: Hargett

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.22140	PL.22141	A	#4 ACSR	7.47Y	124.5	0.00	0.45	0.61	0	4	1	97	0.00	0.0	7.806	0.059	4	1	1	1
PL.21900	PL.21899	A	#2 ACSR	7.50Y	125.1	0.00	-0.06	1.19	1	9	3	95	0.00	0.0	7.258	0.043	9	3	1	1
PL.21892	PL.21891	B	6 A (CWC)	7.12Y	118.7	0.00	6.35	1.03	1	7	2	96	0.00	0.0	6.957	0.076	7	2	1	1
PL.21893	PL.21891	A	#4 ACSR	7.12Y	118.7	0.00	6.34	1.27	1	9	3	95	0.00	0.0	6.894	0.013	9	3	2	2
PL.22279	PL.22097	C	#4 ACSR	7.14Y	119.0	0.00	5.95	2.68	2	18	6	95	0.00	0.0	6.177	0.005	0	0	0	2
PD.3123	PL.22279	C	65T	7.14Y	119.0	0.00	5.95	2.68	0	18	6	95	0.00	0.0	6.177	0.005	0	0	0	2
PL.22280	PD.3123	C	#4 ACSR	7.14Y	119.0	0.00	5.96	2.68	2	18	6	95	0.00	0.0	6.236	0.059	18	6	2	2
PL.22281	PL.21880	C	6 A (CWC)	7.15Y	119.2	0.00	5.81	4.42	3	30	9	96	0.00	0.0	5.964	0.005	0	0	0	5
PD.3124	PL.22281	C	65T	7.15Y	119.2	0.00	5.81	4.42	0	30	9	96	0.00	0.0	5.964	0.005	0	0	0	5
PL.22282	PD.3124	C	6 A (CWC)	7.15Y	119.2	0.01	5.82	4.42	3	30	9	96	0.00	0.0	6.026	0.062	0	0	0	5
PL.22175	PL.22282	C	6 A (CWC)	7.15Y	119.2	0.00	5.83	3.37	2	23	7	96	0.00	0.0	6.064	0.039	10	3	1	4
PL.22176	PL.22175	C	6 A (CWC)	7.15Y	119.2	0.00	5.83	1.93	1	13	4	96	0.00	0.0	6.105	0.041	8	2	2	3
PL.21881	PL.22176	C	#1/0 ACSR	7.15Y	119.2	0.00	5.83	0.74	0	5	2	93	0.00	0.0	6.143	0.038	5	2	1	1
PL.22032	PL.22282	C	6 A (CWC)	7.15Y	119.2	0.00	5.83	1.05	1	7	2	96	0.00	0.0	6.161	0.135	7	2	1	1
PL.21760	PL.21880	A	6 A (CWC)	7.15Y	119.2	0.00	5.81	2.05	1	14	4	96	0.00	0.0	5.964	0.005	0	0	0	2
PD.3195	PL.21760	A	65T	7.15Y	119.2	0.00	5.81	2.05	0	14	4	96	0.00	0.0	5.964	0.005	0	0	0	2
PL.21761	PD.3195	A	6 A (CWC)	7.15Y	119.2	0.01	5.82	2.05	1	14	4	96	0.00	0.0	6.090	0.126	7	2	1	2
PL.21882	PL.21761	A	#4 ACSR	7.15Y	119.2	0.00	5.82	0.98	1	7	2	96	0.00	0.0	6.125	0.035	7	2	1	1
PL.21941	PL.21866	C	6 A (CWC)	7.15Y	119.2	0.00	5.76	1.58	1	11	3	96	0.00	0.0	5.892	0.005	0	0	0	2
PD.3131	PL.21941	C	65T	7.15Y	119.2	0.00	5.76	1.58	0	11	3	96	0.00	0.0	5.892	0.005	0	0	0	2
PL.21942	PD.3131	C	6 A (CWC)	7.15Y	119.2	0.00	5.76	1.58	1	11	3	96	0.00	0.0	5.948	0.056	11	3	2	2
PL.21764	PL.22029	C	#1/0 ACSR	7.16Y	119.3	0.00	5.67	1.31	1	9	3	95	0.00	0.0	5.778	0.005	0	0	0	1
PD.3197	PL.21764	C	65T	7.16Y	119.3	0.00	5.67	1.31	0	9	3	95	0.00	0.0	5.778	0.005	0	0	0	1
PL.21765	PD.3197	C	#1/0 ACSR	7.16Y	119.3	0.00	5.68	1.31	1	9	3	95	0.00	0.0	5.860	0.082	9	3	1	1
PL.21943	PL.21938	A	#4 ACSR	7.16Y	119.4	0.00	5.61	0.80	1	5	2	93	0.00	0.0	5.708	0.005	0	0	0	1
PD.3132	PL.21943	A	65T	7.16Y	119.4	0.00	5.61	0.80	0	5	2	93	0.00	0.0	5.708	0.005	0	0	0	1
PL.21944	PD.3132	A	#4 ACSR	7.16Y	119.4	0.00	5.61	0.80	1	5	2	93	0.00	0.0	5.767	0.059	5	2	1	1
PL.21862	PL.66259	B	#4 ACSR	7.18Y	119.7	0.00	5.32	1.18	1	8	2	97	0.00	0.0	5.427	0.042	8	2	2	2
PL.22291	PL.66259	A	#4 ACSR	7.18Y	119.7	0.00	5.31	4.37	3	30	9	96	0.00	0.0	5.389	0.005	0	0	0	4
PD.3129	PL.22291	A	65T	7.18Y	119.7	0.00	5.31	4.37	0	30	9	96	0.00	0.0	5.389	0.005	0	0	0	4
PL.22292	PD.3129	A	#4 ACSR	7.18Y	119.7	0.01	5.33	4.37	3	30	9	96	0.00	0.0	5.460	0.070	4	1	1	4

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Balanced Voltage Drop Report
Source: Hargett

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.22162	PL.22292	A	#4 ACSR	7.18Y	119.7	0.00	5.33	3.72	3	26	8	96	0.00	0.0	5.509	0.049	26	8	3	3
PL.21939	PL.22096	C	#4 ACSR	7.19Y	119.9	0.00	5.13	3.24	2	22	7	95	0.00	0.0	5.216	0.005	0	0	0	3
PD.3130	PL.21939	C	65T	7.19Y	119.9	0.00	5.13	3.24	0	22	7	95	0.00	0.0	5.216	0.005	0	0	0	3
PL.21940	PD.3130	C	#4 ACSR	7.19Y	119.9	0.01	5.14	3.24	2	22	7	95	0.00	0.0	5.251	0.035	0	0	0	3
PL.22165	PL.21940	C	#4 ACSR	7.19Y	119.9	0.01	5.14	3.24	2	22	7	95	0.00	0.0	5.295	0.044	8	2	1	3
PL.22161	PL.22165	C	#4 ACSR	7.19Y	119.9	0.00	5.14	2.11	2	15	4	97	0.00	0.0	5.320	0.025	15	4	2	2
PL.22369	PL.22221	A	#4 ACSR	7.20Y	120.1	0.00	4.93	0.93	1	6	2	95	0.00	0.0	5.031	0.004	0	0	0	1
PD.3191	PL.22369	A	65T	7.20Y	120.1	0.00	4.93	0.93	0	6	2	95	0.00	0.0	5.031	0.004	0	0	0	1
PL.22370	PD.3191	A	#4 ACSR	7.20Y	120.1	0.00	4.93	0.93	1	6	2	95	0.00	0.0	5.095	0.064	6	2	1	1
PL.22328	PL.22093	A	#4 ACSR	7.21Y	120.2	0.00	4.81	0.64	0	4	1	97	0.00	0.0	4.921	0.005	0	0	0	1
PD.3170	PL.22328	A	65T	7.21Y	120.2	0.00	4.81	0.64	0	4	1	97	0.00	0.0	4.921	0.005	0	0	0	1
PL.22329	PD.3170	A	#4 ACSR	7.21Y	120.2	0.00	4.81	0.64	0	4	1	97	0.00	0.0	4.959	0.038	4	1	1	1
PL.22316	PL.22214	C	#4 ACSR	7.22Y	120.4	0.00	4.64	4.66	4	32	10	95	0.00	0.0	4.776	0.005	0	0	0	6
PD.3164	PL.22316	C	65T	7.22Y	120.4	0.00	4.64	4.66	0	32	10	95	0.00	0.0	4.776	0.005	0	0	0	6
PL.22317	PD.3164	C	#4 ACSR	7.22Y	120.3	0.01	4.66	4.66	4	32	10	95	0.00	0.0	4.842	0.067	0	0	0	6
PL.22091	PL.22317	C	#4 ACSR	7.22Y	120.3	0.00	4.66	4.11	3	28	9	95	0.00	0.0	4.874	0.031	18	6	2	4
PL.22155	PL.22091	C	#1/0 ACSR	7.22Y	120.3	0.00	4.66	1.45	1	10	3	96	0.00	0.0	4.905	0.031	0	0	0	2
PL.22156	PL.22155	C	#1/0 ACSR	7.22Y	120.3	0.00	4.66	1.45	1	10	3	96	0.00	0.0	4.940	0.035	10	3	2	2
PL.21860	PL.22317	C	#1/0 ACSR	7.22Y	120.3	0.00	4.66	0.54	0	4	1	97	0.00	0.0	4.882	0.039	4	1	2	2
PL.22365	PL.22214	A	#4 ACSR	7.22Y	120.4	0.00	4.64	0.34	0	2	1	89	0.00	0.0	4.775	0.004	0	0	0	1
PD.3189	PL.22365	A	65T	7.22Y	120.4	0.00	4.64	0.34	0	2	1	89	0.00	0.0	4.775	0.004	0	0	0	1
PL.22366	PD.3189	A	#4 ACSR	7.22Y	120.4	0.00	4.64	0.34	0	2	1	89	0.00	0.0	4.821	0.046	2	1	1	1
PL.22314	PL.22087	C	6 A (CWC)	7.23Y	120.5	0.00	4.54	5.07	4	35	11	95	0.00	0.0	4.684	0.005	0	0	0	5
PD.3163	PL.22314	C	65T	7.23Y	120.5	0.00	4.54	5.07	0	35	11	95	0.00	0.0	4.684	0.005	0	0	0	5
PL.22315	PD.3163	C	6 A (CWC)	7.23Y	120.5	0.01	4.55	5.07	4	35	11	95	0.00	0.0	4.749	0.065	9	3	1	5
PL.22215	PL.22315	C	6 A (CWC)	7.23Y	120.4	0.01	4.56	3.77	3	26	8	96	0.00	0.0	4.868	0.119	18	5	3	4
PL.21859	PL.22215	C	#4 ACSR	7.23Y	120.4	0.00	4.56	1.24	1	9	3	95	0.00	0.0	4.918	0.049	9	3	1	1
PL.21857	PL.22087	B	#4 ACSR	7.23Y	120.5	0.00	4.53	0.77	1	5	2	93	0.00	0.0	4.714	0.035	5	2	4	4
PL.22320	PL.22217	C	6 A (CWC)	7.24Y	120.6	0.00	4.41	0.21	0	1	0	100	0.00	0.0	4.587	0.005	0	0	0	1
PD.3166	PL.22320	C	65T	7.24Y	120.6	0.00	4.41	0.21	0	1	0	100	0.00	0.0	4.587	0.005	0	0	0	1
PL.22321	PD.3166	C	6 A (CWC)	7.24Y	120.6	0.00	4.41	0.21	0	1	0	100	0.00	0.0	4.642	0.056	1	0	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: Hargett

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.22361	PL.22082	A	#4 ACSR	7.25Y	120.9	0.00	4.12	0.35	0	2	1	89	0.00	0.0	4.354	0.005	0	0	0	1
PD.3187	PL.22361	A	65T	7.25Y	120.9	0.00	4.12	0.35	0	2	1	89	0.00	0.0	4.354	0.005	0	0	0	1
PL.22362	PD.3187	A	#4 ACSR	7.25Y	120.9	0.00	4.12	0.35	0	2	1	89	0.00	0.0	4.378	0.024	2	1	1	1
PL.22324	PL.22081	B	6 A (CWC)	7.26Y	121.0	0.00	4.01	1.18	1	8	2	97	0.00	0.0	4.266	0.005	0	0	0	1
PD.3168	PL.22324	B	65T	7.26Y	121.0	0.00	4.01	1.18	0	8	2	97	0.00	0.0	4.266	0.005	0	0	0	1
PL.22325	PD.3168	B	6 A (CWC)	7.26Y	121.0	0.00	4.01	1.18	1	8	2	97	0.00	0.0	4.376	0.109	8	2	1	1
PL.22357	PL.22076	B	#4 ACSR	7.27Y	121.2	0.00	3.79	0.52	0	4	1	97	0.00	0.0	4.099	0.005	0	0	0	1
PD.3185	PL.22357	B	65T	7.27Y	121.2	0.00	3.79	0.52	0	4	1	97	0.00	0.0	4.099	0.005	0	0	0	1
PL.22358	PD.3185	B	#4 ACSR	7.27Y	121.2	0.00	3.79	0.52	0	4	1	97	0.00	0.0	4.166	0.067	4	1	1	1
PL.21967	PL.22181	C	#2 ACSR	7.30Y	121.6	0.00	3.36	0.65	0	5	1	98	0.00	0.0	3.783	0.005	0	0	0	2
PD.3144	PL.21967	C	65T	7.30Y	121.6	0.00	3.36	0.65	0	5	1	98	0.00	0.0	3.783	0.005	0	0	0	2
PL.21968	PD.3144	C	#2 ACSR	7.30Y	121.6	0.00	3.36	0.65	0	5	1	98	0.00	0.0	3.828	0.045	0	0	1	2
PL.22189	PL.21968	C	#2 ACSR	7.30Y	121.6	0.00	3.36	0.58	0	4	1	97	0.00	0.0	3.869	0.040	0	0	0	1
PL.22179	PL.22189	C	#2 ACSR	7.30Y	121.6	0.00	3.36	0.58	0	4	1	97	0.00	0.0	3.907	0.038	4	1	1	1
PL.21961	PL.22192	A	6 A (CWC)	7.32Y	122.0	0.00	2.99	0.91	1	6	2	95	0.00	0.0	3.524	0.004	0	0	0	1
PD.3141	PL.21961	A	65T	7.32Y	122.0	0.00	2.99	0.91	0	6	2	95	0.00	0.0	3.524	0.004	0	0	0	1
PL.21962	PD.3141	A	6 A (CWC)	7.32Y	122.0	0.00	2.99	0.91	1	6	2	95	0.00	0.0	3.551	0.027	0	0	0	1
PL.21754	PL.21962	A	#1/0 ACSR	7.32Y	122.0	0.00	2.99	0.91	0	6	2	95	0.00	0.0	3.581	0.029	6	2	1	1
PL.21975	PL.21933	A	#4 ACSR	7.33Y	122.2	0.00	2.79	0.56	0	4	1	97	0.00	0.0	3.391	0.005	0	0	0	1
PD.3148	PL.21975	A	65T	7.33Y	122.2	0.00	2.79	0.56	0	4	1	97	0.00	0.0	3.391	0.005	0	0	0	1
PL.21976	PD.3148	A	#4 ACSR	7.33Y	122.2	0.00	2.79	0.56	0	4	1	97	0.00	0.0	3.432	0.041	4	1	1	1
PL.21762	PL.21751	C	#4 ACSR	7.34Y	122.3	0.00	2.70	2.12	2	15	4	97	0.00	0.0	3.329	0.005	0	0	0	2
PD.3196	PL.21762	C	65T	7.34Y	122.3	0.00	2.70	2.12	0	15	4	97	0.00	0.0	3.329	0.005	0	0	0	2
PL.21763	PD.3196	C	#4 ACSR	7.34Y	122.3	0.00	2.70	2.12	2	15	4	97	0.00	0.0	3.383	0.054	15	4	2	2
PL.21750	PL.22051	C	#4 ACSR	7.35Y	122.5	0.01	2.49	1.82	1	13	4	96	0.00	0.0	3.255	0.069	0	0	0	2
PL.21979	PL.21750	C	#4 ACSR	7.35Y	122.5	0.00	2.49	1.82	1	13	4	96	0.00	0.0	3.260	0.005	0	0	0	2
PD.3150	PL.21979	C	65T	7.35Y	122.5	0.00	2.49	1.82	0	13	4	96	0.00	0.0	3.260	0.005	0	0	0	2
PL.21980	PD.3150	C	#4 ACSR	7.35Y	122.5	0.01	2.50	1.82	1	13	4	96	0.00	0.0	3.326	0.066	0	0	0	2
PL.21752	PL.21980	C	#4 ACSR	7.35Y	122.5	0.00	2.50	1.82	1	13	4	96	0.00	0.0	3.340	0.014	13	4	2	2
PL.21977	PL.22051	A	#1/0 ACSR	7.35Y	122.5	0.00	2.49	0.88	0	6	2	95	0.00	0.0	3.191	0.005	0	0	0	1
PD.3149	PL.21977	A	65T	7.35Y	122.5	0.00	2.49	0.88	0	6	2	95	0.00	0.0	3.191	0.005	0	0	0	1

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Balanced Voltage Drop Report
Source: Hargett

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.21978	PD.3149	A	#1/0 ACSR	7.35Y	122.5	0.00	2.49	0.88	0	6	2	95	0.00	0.0	3.311	0.120	6	2	1	1
PL.21772	PL.21915	ABC	#4 ACSR	7.39Y	123.2	0.00	1.81	7.40	6	148	71	90	0.00	0.0	2.747	0.005	0	0	0	1
PD.3201	PL.21772	ABC	65T	7.39Y	123.2	0.00	1.81	7.40	0	148	71	90	0.00	0.0	2.747	0.005	0	0	0	1
PL.21773	PD.3201	ABC	#4 ACSR	7.39Y	123.2	0.00	1.81	7.40	6	148	71	90	0.00	0.0	2.760	0.013	0	0	0	1
PL.22207	PL.21773	ABC	#4 ACSR	7.39Y	123.2	0.00	1.81	7.40	6	148	71	90	0.00	0.0	2.774	0.014	148	71	1	1
PL.21768	PL.21739	A	6 A (CWC)	7.40Y	123.3	0.00	1.70	2.55	2	18	5	96	0.00	0.0	2.683	0.005	0	0	0	2
PD.3199	PL.21768	A	65T	7.40Y	123.3	0.00	1.70	2.55	0	18	5	96	0.00	0.0	2.683	0.005	0	0	0	2
PL.21769	PD.3199	A	6 A (CWC)	7.40Y	123.3	0.01	1.70	2.55	2	18	5	96	0.00	0.0	2.746	0.063	0	0	0	2
PL.22257	PL.21769	A	#2 ACSR	7.40Y	123.3	0.00	1.71	2.55	1	18	5	96	0.00	0.0	2.820	0.074	13	4	1	2
PL.22258	PL.22257	A	#2 ACSR	7.40Y	123.3	0.00	1.71	0.66	0	5	1	98	0.00	0.0	2.898	0.078	0	0	0	1
PL.21875	PL.22258	A	#2 ACSR	7.40Y	123.3	0.00	1.71	0.66	0	5	1	98	0.00	0.0	2.962	0.064	5	1	1	1
PL.22308	PL.21925	C	#1/0 ACSR	7.40Y	123.4	0.00	1.61	0.00	0	0	0	100	0.00	0.0	2.596	0.004	0	0	0	0
PD.3160	PL.22308	C	65T	7.40Y	123.4	0.00	1.61	0.00	0	0	0	100	0.00	0.0	2.596	0.004	0	0	0	0
PL.22309	PD.3160	C	#1/0 ACSR	7.40Y	123.4	0.00	1.61	0.00	0	0	0	100	0.00	0.0	2.623	0.027	0	0	0	0
PL.22294	PL.22346	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	0.49	0	3	1	95	0.00	0.0	1.759	0.005	0	0	0	2
PD.3153	PL.22294	A	65T	7.44Y	124.1	0.00	0.94	0.49	0	3	1	95	0.00	0.0	1.759	0.005	0	0	0	2
PL.22295	PD.3153	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	0.49	0	3	1	95	0.00	0.0	1.767	0.008	0	0	0	2
PL.21730	PL.22295	A	#4 ACSR	7.44Y	124.1	0.00	0.94	0.49	0	3	1	95	0.00	0.0	1.883	0.115	0	0	0	2
PL.22046	PL.21730	A	#4 ACSR	7.44Y	124.1	0.00	0.94	0.49	0	3	1	95	0.00	0.0	1.965	0.082	0	0	1	2
PL.21731	PL.22046	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	0.47	0	3	1	95	0.00	0.0	1.989	0.024	0	0	0	1
PL.21983	PL.21731	A	1/0 AL URD	7.44Y	124.1	0.00	0.94	0.47	0	3	1	95	0.00	0.0	1.994	0.005	0	0	0	1
PD.3152	PL.21983	A	40T	7.44Y	124.1	0.00	0.94	0.47	0	3	1	95	0.00	0.0	1.994	0.005	0	0	0	1
PL.22293	PD.3152	A	1/0 AL URD	7.44Y	124.1	0.00	0.94	0.47	0	3	1	95	0.00	0.0	2.012	0.019	0	0	0	1
PL.21981	PL.22293	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	0.47	0	3	1	95	0.00	0.0	2.017	0.005	0	0	0	1
PD.3151	PL.21981	A	25T	7.44Y	124.1	0.00	0.94	0.47	0	3	1	95	0.00	0.0	2.017	0.005	0	0	0	1
PL.21982	PD.3151	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	0.47	0	3	1	95	0.00	0.0	2.179	0.162	3	1	1	1
PL.22347	PL.22067	A	#4 ACSR	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	1.674	0.005	0	0	0	0
PD.3180	PL.22347	A	65T	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	1.674	0.005	0	0	0	0
PL.22348	PD.3180	A	#4 ACSR	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	1.710	0.036	0	0	0	0
PL.22296	PL.22198	A	#2 ACSR	7.45Y	124.2	0.00	0.77	0.76	0	5	2	93	0.00	0.0	1.553	0.005	0	0	0	2
PD.3154	PL.22296	A	65T	7.45Y	124.2	0.00	0.77	0.76	0	5	2	93	0.00	0.0	1.553	0.005	0	0	0	2

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Balanced Voltage Drop Report
Source: Hargett

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.22297	PD.3154	A	#2 ACSR	7.45Y	124.2	0.00	0.77	0.76	0	5	2	93	0.00	0.0	1.591	0.038	5	2	2	2
PL.22341	PL.22045	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	8.30	4	59	18	96	0.00	0.0	1.069	0.004	0	0	0	2
PD.3178	PL.22341	C	65T	7.47Y	124.6	0.00	0.43	8.30	0	59	18	96	0.00	0.0	1.069	0.004	0	0	0	2
PL.22342	PD.3178	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	8.30	4	59	18	96	0.00	0.0	1.086	0.016	59	18	2	2
PL.22333	PL.22236	A	#4 ACSR	7.48Y	124.6	0.00	0.37	3.63	3	26	8	96	0.00	0.0	0.922	0.004	0	0	0	6
PD.3173	PL.22333	A	65T	7.48Y	124.6	0.00	0.37	3.63	0	26	8	96	0.00	0.0	0.922	0.004	0	0	0	6
PL.22334	PD.3173	A	#4 ACSR	7.48Y	124.6	0.01	0.38	3.63	3	26	8	96	0.00	0.0	0.993	0.070	8	2	1	6
PL.22234	PL.22334	A	#4 ACSR	7.48Y	124.6	0.00	0.39	2.51	2	18	5	96	0.00	0.0	1.031	0.038	5	1	3	5
PL.22233	PL.22234	A	#4 ACSR	7.48Y	124.6	0.00	0.39	1.87	1	13	4	96	0.00	0.0	1.115	0.085	13	4	1	2
PL.22331	PL.22233	A	#1/0 ACSR	7.48Y	124.6	0.00	0.39	0.08	0	1	0	100	0.00	0.0	1.120	0.005	0	0	0	1
PD.3172	PL.22331	A	40T	7.48Y	124.6	0.00	0.39	0.08	0	1	0	100	0.00	0.0	1.120	0.005	0	0	0	1
PL.22332	PD.3172	A	#1/0 ACSR	7.48Y	124.6	0.00	0.39	0.08	0	1	0	100	0.00	0.0	1.177	0.057	1	0	1	1
PL.22335	PL.22044	C	#4 ACSR	7.48Y	124.7	0.00	0.32	6.17	5	44	13	96	0.00	0.0	0.786	0.004	0	0	0	12
PD.3174	PL.22335	C	65T	7.48Y	124.7	0.00	0.32	6.17	0	44	13	96	0.00	0.0	0.786	0.004	0	0	0	12
PL.22336	PD.3174	C	#4 ACSR	7.48Y	124.7	0.01	0.33	6.17	5	44	13	96	0.00	0.0	0.831	0.045	14	4	3	12
PL.22240	PL.22336	C	#4 ACSR	7.48Y	124.6	0.02	0.35	4.27	3	31	9	96	0.00	0.0	0.939	0.108	1	0	1	9
PL.22239	PL.22240	C	#4 ACSR	7.48Y	124.6	0.01	0.36	4.18	3	30	9	96	0.00	0.0	1.014	0.075	4	1	2	8
PL.21726	PL.22239	C	#2 ACSR	7.48Y	124.6	0.00	0.36	1.23	1	9	3	95	0.00	0.0	1.040	0.026	9	3	1	1
PL.21727	PL.22239	C	#4 ACSR	7.48Y	124.6	0.00	0.37	2.36	2	17	5	96	0.00	0.0	1.058	0.044	4	1	2	5
PL.21729	PL.21727	C	#2 ACSR	7.48Y	124.6	0.00	0.37	1.41	1	10	3	96	0.00	0.0	1.087	0.030	0	0	0	2
PL.22237	PL.21729	C	#1/0 ACSR	7.48Y	124.6	0.00	0.37	1.41	1	10	3	96	0.00	0.0	1.101	0.014	5	1	1	2
PL.22238	PL.22237	C	#1/0 ACSR	7.48Y	124.6	0.00	0.37	0.74	0	5	2	93	0.00	0.0	1.203	0.102	5	2	1	1
PL.21919	PL.21729	C	#2 ACSR	7.48Y	124.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	1.125	0.037	0	0	0	0
PL.21728	PL.21727	C	#4 ACSR	7.48Y	124.6	0.00	0.37	0.42	0	3	1	95	0.00	0.0	1.092	0.034	3	1	1	1
PL.22065	PL.22066	B	#1/0 ACSR	7.49Y	124.8	0.00	0.23	1.37	1	10	3	96	0.00	0.0	0.559	0.011	0	0	0	2
PD.3175	PL.22065	B	65T	7.49Y	124.8	0.00	0.23	1.37	0	10	3	96	0.00	0.0	0.559	0.011	0	0	0	2
PL.22337	PD.3175	B	#1/0 ACSR	7.49Y	124.8	0.00	0.23	1.37	1	10	3	96	0.00	0.0	0.613	0.054	0	0	1	2
PL.22226	PL.22337	B	#1/0 ACSR	7.49Y	124.8	0.00	0.23	1.30	1	9	3	95	0.00	0.0	0.657	0.044	9	3	1	1
PL.22339	PL.21916	A	6 A (CWC)	7.49Y	124.8	0.00	0.18	6.78	5	49	15	96	0.00	0.0	0.431	0.004	0	0	0	10
PD.3177	PL.22339	A	65T	7.49Y	124.8	0.00	0.18	6.78	0	49	15	96	0.00	0.0	0.431	0.004	0	0	0	10
PL.22340	PD.3177	A	6 A (CWC)	7.49Y	124.8	0.02	0.20	6.78	5	49	15	96	0.01	0.0	0.510	0.079	0	0	0	10

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: Hargett

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.22064	PL.22340	A	6 A (CWC)	7.49Y	124.8	0.01	0.21	1.65	1	12	4	95	0.00	0.0	0.613	0.103	0	0	0	4
PL.22042	PL.22064	A	6 A (CWC)	7.49Y	124.8	0.01	0.22	1.65	1	12	4	95	0.00	0.0	0.729	0.116	0	0	0	4
PL.21918	PL.22042	A	6 A (CWC)	7.49Y	124.8	0.01	0.23	1.36	1	10	3	96	0.00	0.0	0.831	0.102	0	0	0	3
PL.22229	PL.21918	A	6 A (CWC)	7.49Y	124.8	0.01	0.23	1.36	1	10	3	96	0.00	0.0	0.940	0.109	0	0	1	3
PL.22230	PL.22229	A	6 A (CWC)	7.49Y	124.8	0.00	0.24	1.36	1	10	3	96	0.00	0.0	0.989	0.049	0	0	0	2
PL.22227	PL.22230	A	#2 ACSR	7.49Y	124.8	0.00	0.24	0.86	0	6	2	95	0.00	0.0	1.044	0.055	6	2	1	1
PL.22228	PL.22227	A	#2 ACSR	7.49Y	124.8	0.00	0.24	0.00	0	0	0	100	0.00	0.0	1.115	0.071	0	0	0	0
PL.22043	PL.22228	A	#2 ACSR	7.49Y	124.8	0.00	0.24	0.00	0	0	0	100	0.00	0.0	1.248	0.132	0	0	0	0
PL.21722	PL.22230	A	6 A (CWC)	7.49Y	124.8	0.00	0.24	0.50	0	4	1	97	0.00	0.0	1.079	0.090	4	1	1	1
PL.21723	PL.21722	A	#2 ACSR	7.49Y	124.8	0.00	0.24	0.00	0	0	0	100	0.00	0.0	1.121	0.042	0	0	0	0
PL.21721	PL.22042	A	#4 ACSR	7.49Y	124.8	0.00	0.22	0.29	0	2	1	89	0.00	0.0	0.797	0.069	2	1	1	1
PL.21720	PL.22340	A	#1/0 ACSR	7.49Y	124.8	0.00	0.21	5.13	2	37	11	96	0.00	0.0	0.528	0.018	4	1	1	6
PL.22231	PL.21720	A	#1/0 ACSR	7.49Y	124.8	0.00	0.21	4.63	2	33	10	96	0.00	0.0	0.576	0.048	5	2	1	5
PL.22232	PL.22231	A	#1/0 ACSR	7.49Y	124.8	0.00	0.21	3.91	2	28	8	96	0.00	0.0	0.624	0.048	8	2	1	4
PL.21724	PL.22232	A	#1/0 ACSR	7.49Y	124.8	0.00	0.22	1.78	1	13	4	96	0.00	0.0	0.707	0.083	13	4	2	2
PL.21725	PL.22232	A	#1/0 ACSR	7.49Y	124.8	0.00	0.21	1.06	0	8	2	97	0.00	0.0	0.674	0.050	8	2	1	1

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	7167	0	0	0	0	0	135	0.00	7303
KVAR	2181	0	0	0	0	0	231		2412

Lowest Voltage = 118.03 on Element PL.21896
Max Accm VoltD = 6.97 on Element PL.21896
Max Elem VoltD = 0.52 on Element PL.22508