Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
Bush		ABC	SRC-Bush	7.50Y	125.0	0.00	0.00	450.92	0	9693	2996	96	0.00	0.0	0.000	0.000	0	0	0	1436
PL.52863	Bush	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	101.11	19	2183	640	96	0.00	0.0	0.001	0.001	0	0	0	305
PL.52867	PL.52863	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	101.11	19	2183	640	96	0.00	0.0	0.002	0.001	0	0	0	305
---------- Feeder No. 3 (Lick Fork F3) Beginning with Device PD.8055 ----------																				
PD.8055	PL.52867	ABC	480VWE	7.50Y	125.0	0.00	0.00	101.11	0	2183	640	96	0.00	0.0	0.002	0.001	0	0	0	305
PL.33530	PD.8055	ABC	397 SPACER	7.50Y	125.0	0.01	0.01	101.11	19	2183	640	96	0.03	0.0	0.021	0.019	0	0	0	305
PL.34391	PL.33530	ABC	#3/0 ACSR	7.50Y	125.0	0.00	0.01	101.11	34	2183	640	96	0.01	0.0	0.022	0.001	0	0	0	305
PL.55153	PL.34391	ABC	#3/0 ACSR	7.50Y	125.0	0.04	0.05	101.11	34	2183	640	96	0.50	0.0	0.051	0.029	28	8	10	305
PL.55264	PL.55153	ABC	#3/0 ACSR	7.49Y	124.9	0.10	0.14	99.82	33	2154	632	96	1.27	0.1	0.128	0.076	11	3	4	295
PL.55263	PL.55264	ABC	#3/0 ACSR	7.48Y	124.7	0.12	0.27	99.31	33	2142	627	96	1.61	0.1	0.225	0.098	9	2	1	291
PL.55386	PL.55263	C	#2 ACSR	7.48Y	124.7	0.00	0.27	1.89	1	14	4	96	0.00	0.0	0.228	0.003	0	0	0	1
PD.8198	PL.55386	C	30QA	7.48Y	124.7	0.00	0.27	1.89	6	14	4	96	0.00	0.0	0.228	0.003	0	0	0	1
PL.55161	PD.8198	C	#2 ACSR	7.48Y	124.7	0.00	0.27	1.89	1	14	4	96	0.00	0.0	0.244	0.016	0	0	0	1
PL.55385	PL.55161	C	#2 ACSR	7.48Y	124.7	0.00	0.27	1.89	1	14	4	96	0.00	0.0	0.326	0.081	14	4	1	1
PL.55135	PL.55263	ABC	#3/0 ACSR	7.48Y	124.6	0.15	0.42	98.28	33	2118	618	96	1.93	0.1	0.344	0.119	0	0	0	289
PL.33550	PL.55135	ABC	#3/0 ACSR	7.47Y	124.6	0.01	0.43	96.28	32	2073	604	96	0.18	0.0	0.356	0.011	0	0	0	282
PL.33551	PL.33550	ABC	#3/0 ACSR	7.47Y	124.6	0.00	0.43	96.28	32	2073	604	96	0.02	0.0	0.357	0.001	0	0	0	282
PL.33209	PL.33551	ABC	#3/0 ACSR	7.47Y	124.4	0.14	0.57	96.28	32	2073	604	96	1.73	0.1	0.468	0.111	9	2	1	282
PL.33210	PL.33209	C	6 A (CWC)	7.47Y	124.4	0.00	0.57	7.78	6	56	15	97	0.00	0.0	0.469	0.000	0	0	0	6
PD.4957	PL.33210	C	75QA	7.47Y	124.4	0.00	0.57	7.78	10	56	15	97	0.00	0.0	0.469	0.000	0	0	0	6
PL.33211	PD.4957	C	6 A (CWC)	7.47Y	124.4	0.00	0.57	7.78	6	56	15	97	0.00	0.0	0.469	0.000	0	0	0	6
PL.62738	PL.33211	C	6 A (CWC)	7.47Y	124.4	0.01	0.58	5.23	4	38	10	97	0.00	0.0	0.523	0.054	0	0	0	4
PL.55128	PL.62738	C	6 A (CWC)	7.46Y	124.4	0.01	0.59	5.23	4	38	10	97	0.00	0.0	0.562	0.039	13	3	2	4
PL.64853	PL.55128	C	6 A (CWC)	7.46Y	124.4	0.00	0.59	3.48	2	25	7	96	0.00	0.0	0.619	0.057	25	7	2	2
PL.55129	PL.33211	C	#4 ACSR	7.47Y	124.4	0.01	0.57	2.55	2	18	5	96	0.00	0.0	0.592	0.123	18	5	2	2
PL.55130	PL.33209	ABC	#3/0 ACSR	7.46Y	124.4	0.03	0.60	93.27	31	2006	583	96	0.43	0.0	0.498	0.029	7	2	1	275
PL.55131	PL.55130	ABC	#3/0 ACSR	7.46Y	124.3	0.07	0.68	92.97	31	1999	581	96	0.89	0.0	0.560	0.062	22	6	3	274
PL.55133	PL.55131	C	#4 ACSR	7.46Y	124.3	0.00	0.68	3.30	3	24	6	97	0.00	0.0	0.564	0.004	0	0	0	3
PD.8173	PL.55133	C	75QA	7.46Y	124.3	0.00	0.68	3.30	4	24	6	97	0.00	0.0	0.564	0.004	0	0	0	3
PL.55292	PD.8173	C	#4 ACSR	7.46Y	124.3	0.00	0.68	3.30	3	24	6	97	0.00	0.0	0.610	0.046	18	5	2	3

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.55293	PL.55292	C	#4 ACSR	7.46Y	124.3	0.00	0.68	0.74	1	5	1	98	0.00	0.0	0.758	0.148	5	1	1	1
PL.55132	PL.55131	ABC	#3/0 ACSR	7.44Y	124.1	0.26	0.93	90.85	30	1952	567	96	3.09	0.2	0.783	0.223	0	0	0	268
PL.33496	PL.55132	B	6 A (CWC)	7.44Y	124.0	0.04	0.97	11.99	9	86	23	97	0.03	0.0	0.859	0.077	0	0	0	11
PL.33591	PL.33496	B	6 A (CWC)	7.44Y	124.0	0.00	0.98	11.99	9	86	23	97	0.00	0.0	0.861	0.001	0	0	0	11
PD.5016	PL.33591	B	35L	7.44Y	124.0	0.00	0.98	11.99	34	86	23	97	0.00	0.0	0.861	0.001	0	0	0	11
PL.33212	PD.5016	B	6 A (CWC)	7.44Y	124.0	0.06	1.03	11.99	9	86	23	97	0.04	0.0	0.966	0.106	0	0	0	11
PL.33213	PL.33212	B	6 A (CWC)	7.44Y	123.9	0.02	1.06	9.71	7	70	19	97	0.01	0.0	1.022	0.055	0	0	0	10
PL.55364	PL.33213	B	6 A (CWC)	7.43Y	123.9	0.05	1.11	4.32	3	31	8	97	0.01	0.0	1.352	0.330	13	4	3	6
PL.55365	PL.55364	B	6 A (CWC)	7.43Y	123.9	0.04	1.14	2.45	2	18	5	96	0.00	0.0	1.671	0.319	0	0	0	3
PL.33291	PL.55365	B	#4 ACSR	7.43Y	123.9	0.00	1.15	0.77	1	6	2	95	0.00	0.0	1.806	0.135	6	2	1	1
PL.55100	PL.55365	B	6 A (CWC)	7.43Y	123.9	0.00	1.15	1.67	1	12	3	97	0.00	0.0	1.716	0.045	12	3	1	2
PL.55101	PL.55100	B	6 A (CWC)	7.43Y	123.9	0.00	1.15	0.00	0	0	0	100	0.00	0.0	1.909	0.193	0	0	1	1
PL.57768	PL.33213	B	#4 ACSR	7.44Y	123.9	0.01	1.07	5.39	4	39	10	97	0.00	0.0	1.099	0.077	20	5	2	4
PL.57769	PL.57768	B	#1/0 ACSR	7.44Y	123.9	0.01	1.08	2.61	1	19	5	97	0.00	0.0	1.241	0.143	0	0	0	2
PL.54815	PL.57769	B	#1/0 ACSR	7.43Y	123.9	0.01	1.09	2.61	1	19	5	97	0.00	0.0	1.331	0.090	0	0	0	2
PL.55322	PL.54815	B	#1/0 ACSR	7.43Y	123.9	0.00	1.09	2.61	1	19	5	97	0.00	0.0	1.385	0.054	0	0	0	2
PL.55323	PL.55322	B	1/0 AL URD	7.43Y	123.9	0.00	1.09	2.61	2	19	5	97	0.00	0.0	1.442	0.057	19	5	2	2
PL.57963	PL.55323	B	1/0 AL URD	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	1.499	0.057	0	0	0	0
PL.54816	PL.57769	B	#1/0 ACSR	7.44Y	123.9	0.00	1.08	0.00	0	0	0	100	0.00	0.0	1.321	0.080	0	0	0	0
PL.55321	PL.33212	B	6 A (CWC)	7.44Y	124.0	0.01	1.04	2.28	2	16	4	97	0.00	0.0	1.086	0.119	16	4	1	1
PL.55362	PL.55132	ABC	#3/0 ACSR	7.44Y	124.0	0.10	1.04	86.86	29	1863	540	96	1.19	0.1	0.878	0.095	23	6	3	257
PL.55363	PL.55362	ABC	#3/0 ACSR	7.43Y	123.9	0.08	1.12	85.80	29	1839	532	96	0.89	0.0	0.950	0.073	16	4	2	254
PL.55358	PL.55363	ABC	#3/0 ACSR	7.43Y	123.8	0.13	1.24	83.21	28	1782	515	96	1.37	0.1	1.069	0.118	8	2	1	247
PL.55354	PL.55358	ABC	#3/0 ACSR	7.42Y	123.7	0.06	1.31	82.83	28	1773	511	96	0.71	0.0	1.130	0.062	9	2	1	246
PL.55353	PL.55354	ABC	#3/0 ACSR	7.41Y	123.6	0.13	1.44	81.87	27	1752	505	96	1.46	0.1	1.260	0.130	0	0	0	243
PL.55348	PL.55353	ABC	#3/0 ACSR	7.41Y	123.5	0.07	1.51	81.41	27	1740	500	96	0.71	0.0	1.324	0.064	0	0	0	242
PL.55347	PL.55348	C	6 A (CWC)	7.41Y	123.5	0.00	1.51	0.00	0	0	0	100	0.00	0.0	1.325	0.001	0	0	0	0
PD.4989	PL.55347	C	75QA	7.41Y	123.5	0.00	1.51	0.00	0	0	0	100	0.00	0.0	1.325	0.001	0	0	0	0
PL.55351	PD.4989	C	6 A (CWC)	7.41Y	123.5	0.00	1.51	0.00	0	0	0	100	0.00	0.0	1.432	0.107	0	0	0	0
PL.55352	PL.55351	C	6 A (CWC)	7.41Y	123.5	0.00	1.51	0.00	0	0	0	100	0.00	0.0	1.519	0.087	0	0	0	0
PL.54821	PL.55348	ABC	#3/0 ACSR	7.39Y	123.2	0.25	1.75	81.41	27	1740	499	96	2.65	0.2	1.563	0.239	4	1	4	242

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.54822	PL.54821	ABC	#3/0 ACSR	7.39Y	123.2	0.03	1.79	81.21	27	1733	494	96	0.35	0.0	1.594	0.032	0	0	0	238
PL.55238	PL.54822	ABC	#3/0 ACSR	7.38Y	123.1	0.16	1.94	81.15	27	1731	493	96	1.70	0.1	1.748	0.154	3	1	3	237
PL.55236	PL.55238	ABC	6 A (CWC)	7.38Y	123.0	0.01	1.95	2.86	2	61	17	96	0.00	0.0	1.826	0.078	0	0	0	11
PL.55221	PL.55236	B	#2 ACSR	7.38Y	123.0	0.00	1.95	1.04	1	7	2	96	0.00	0.0	1.877	0.051	7	2	1	1
PL.33594	PL.55236	B	6 A (CWC)	7.38Y	123.0	0.02	1.97	7.55	5	54	15	96	0.01	0.0	1.874	0.048	0	0	0	10
PL.33527	PL.33594	B	6 A (CWC)	7.38Y	123.0	0.01	1.98	7.55	5	54	15	96	0.00	0.0	1.892	0.019	0	0	0	10
PL.33528	PL.33527	B	6 A (CWC)	7.38Y	123.0	0.00	1.98	7.55	5	54	15	96	0.00	0.0	1.893	0.001	0	0	0	10
PD.5018	PL.33528	B	50L	7.38Y	123.0	0.00	1.98	7.55	15	54	15	96	0.00	0.0	1.893	0.001	0	0	0	10
PL.33537	PD.5018	B	6 A (CWC)	7.38Y	123.0	0.02	2.00	7.55	5	54	15	96	0.01	0.0	1.963	0.069	10	3	2	10
PL.55345	PL.33537	B	6 A (CWC)	7.38Y	123.0	0.01	2.01	6.08	4	43	12	96	0.00	0.0	2.010	0.047	9	2	1	8
PL.55346	PL.55345	B	6 A (CWC)	7.38Y	123.0	0.01	2.02	4.88	3	35	9	97	0.00	0.0	2.047	0.037	0	0	0	7
PL.55344	PL.55346	B	#4 ACSR	7.38Y	123.0	0.00	2.02	1.30	1	9	2	98	0.00	0.0	2.121	0.073	9	2	1	1
PL.55342	PL.55346	B	6 A (CWC)	7.38Y	123.0	0.02	2.04	3.58	3	26	7	97	0.00	0.0	2.154	0.107	1	0	1	6
PL.55343	PL.55342	B	6 A (CWC)	7.38Y	123.0	0.01	2.04	2.24	2	16	4	97	0.00	0.0	2.222	0.068	7	2	1	4
PL.55316	PL.55343	B	6 A (CWC)	7.38Y	123.0	0.00	2.04	1.23	1	9	2	98	0.00	0.0	2.275	0.053	7	2	2	3
PL.55317	PL.55316	B	6 A (CWC)	7.38Y	123.0	0.00	2.04	0.30	0	2	1	89	0.00	0.0	2.366	0.091	2	1	1	1
PL.55341	PL.55342	B	#4 ACSR	7.38Y	123.0	0.00	2.04	1.21	1	9	2	98	0.00	0.0	2.224	0.070	9	2	1	1
PL.55220	PL.55236	ABC	#4 ACSR	7.38Y	123.0	0.00	1.95	0.00	0	0	0	100	0.00	0.0	1.876	0.051	0	0	0	0
PL.55237	PL.55238	ABC	336 MCM AC	7.38Y	123.0	0.01	1.95	18.70	4	400	108	97	0.02	0.0	1.811	0.063	0	0	0	62
PL.55231	PL.55237	B	#4 ACSR	7.38Y	123.0	0.00	1.96	10.24	8	73	20	96	0.00	0.0	1.815	0.004	0	0	0	7
PD.8177	PL.55231	B	75QA	7.38Y	123.0	0.00	1.96	10.24	14	73	20	96	0.00	0.0	1.815	0.004	0	0	0	7
PL.55230	PD.8177	B	#4 ACSR	7.38Y	123.0	0.01	1.96	10.24	8	73	20	96	0.00	0.0	1.831	0.016	13	4	1	7
PL.55232	PL.55230	B	#4 ACSR	7.38Y	123.0	0.01	1.97	8.38	6	60	16	97	0.00	0.0	1.866	0.035	12	3	2	6
PL.55229	PL.55232	B	#4 ACSR	7.38Y	123.0	0.01	1.98	6.63	5	47	13	96	0.00	0.0	1.906	0.040	26	7	2	4
PL.55228	PL.55229	B	#4 ACSR	7.38Y	123.0	0.00	1.98	2.94	2	21	6	96	0.00	0.0	1.941	0.035	21	6	2	2
PL.55233	PL.55237	ABC	336 MCM AC	7.38Y	123.0	0.00	1.95	15.28	3	327	89	96	0.00	0.0	1.815	0.003	0	0	0	55
PD.8178	PL.55233	ABC	50L	7.38Y	123.0	0.00	1.95	15.28	31	327	89	96	0.00	0.0	1.815	0.003	0	0	0	55
PL.55234	PD.8178	ABC	336 MCM AC	7.38Y	123.0	0.01	1.96	15.28	3	327	89	96	0.01	0.0	1.884	0.069	1	0	1	55
PL.55235	PL.55234	B	6 A (CWC)	7.38Y	123.0	0.00	1.97	2.46	2	18	5	96	0.00	0.0	1.941	0.057	9	3	2	5
PL.33651	PL.55235	B	6 A (CWC)	7.38Y	123.0	0.00	1.97	1.16	1	8	2	97	0.00	0.0	1.980	0.039	8	2	3	3
PL.62763	PL.55234	ABC	336 MCM AC	7.38Y	123.0	0.02	1.98	14.43	3	308	84	96	0.03	0.0	2.059	0.175	0	0	0	49

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33592	PL.62763	B	6 A (CWC)	7.38Y	123.0	0.00	1.98	1.59	1	11	3	96	0.00	0.0	2.129	0.070	3	1	1	3
PL.33650	PL.33592	B	6 A (CWC)	7.38Y	123.0	0.00	1.98	0.00	0	0	0	100	0.00	0.0	2.179	0.050	0	0	0	0
PL.33512	PL.33592	B	#4 ACSR	7.38Y	123.0	0.00	1.99	1.17	1	8	2	97	0.00	0.0	2.167	0.038	8	2	2	2
PL.62764	PL.62763	B	1/0 AL URD	7.38Y	123.0	0.00	1.98	0.00	0	0	0	100	0.00	0.0	2.092	0.033	0	0	0	0
PL.33203	PL.62763	ABC	336 MCM AC	7.38Y	123.0	0.01	1.99	13.90	3	297	81	96	0.02	0.0	2.161	0.102	0	0	0	46
PL.62686	PL.33203	B	6 A (CWC)	7.38Y	123.0	0.01	2.00	3.46	2	25	7	96	0.00	0.0	2.214	0.053	0	0	0	4
PL.62687	PL.62686	B	6 A (CWC)	7.38Y	123.0	0.00	2.00	3.46	2	25	7	96	0.00	0.0	2.246	0.032	6	2	1	4
PL.62688	PL.62687	B	6 A (CWC)	7.38Y	123.0	0.00	2.01	2.62	2	19	5	97	0.00	0.0	2.273	0.026	6	2	1	3
PL.55059	PL.62688	B	6 A (CWC)	7.38Y	123.0	0.01	2.01	1.74	1	12	3	97	0.00	0.0	2.353	0.081	0	0	1	2
PL.34394	PL.55059	B	6 A (CWC)	7.38Y	123.0	0.00	2.02	1.74	1	12	3	97	0.00	0.0	2.427	0.074	12	3	1	1
PL.33532	PL.33203	ABC	336 MCM AC	7.38Y	123.0	0.01	2.00	12.75	2	272	74	96	0.02	0.0	2.306	0.145	0	0	0	42
PL.33466	PL.33532	B	6 A (CWC)	7.38Y	123.0	0.01	2.01	2.75	2	20	5	97	0.00	0.0	2.380	0.074	0	0	0	3
PL.33467	PL.33466	B	6 A (CWC)	7.38Y	123.0	0.02	2.03	2.10	1	15	4	97	0.00	0.0	2.566	0.186	4	1	1	2
PL.33619	PL.33467	B	6 A (CWC)	7.38Y	123.0	0.01	2.04	1.60	1	11	3	96	0.00	0.0	2.756	0.190	11	3	1	1
PL.55058	PL.33466	B	#4 ACSR	7.38Y	123.0	0.00	2.01	0.65	0	5	1	98	0.00	0.0	2.460	0.079	5	1	1	1
PL.54984	PL.33532	ABC	336 MCM AC	7.38Y	123.0	0.01	2.01	11.83	2	253	69	96	0.01	0.0	2.364	0.059	5	1	3	39
PL.54985	PL.54984	ABC	336 MCM AC	7.38Y	123.0	0.02	2.03	11.62	2	248	67	97	0.02	0.0	2.563	0.199	0	0	0	36
PL.34400	PL.54985	ABC	336 MCM AC	7.38Y	123.0	0.01	2.03	11.62	2	248	67	97	0.01	0.0	2.630	0.067	8	2	1	36
PL.33833	PL.34400	ABC	336 MCM AC	7.38Y	123.0	0.01	2.05	11.24	2	240	65	97	0.02	0.0	2.789	0.159	5	1	1	35
PL.57871	PL.33833	ABC	336 MCM AC	7.38Y	122.9	0.01	2.06	11.00	2	235	64	96	0.01	0.0	2.911	0.122	0	0	0	34
PL.57872	PL.57871	ABC	336 MCM AC	7.38Y	122.9	0.01	2.06	11.00	2	235	64	96	0.01	0.0	3.021	0.109	8	2	1	34
PL.54978	PL.57872	ABC	336 MCM AC	7.38Y	122.9	0.00	2.07	10.62	2	227	61	97	0.00	0.0	3.045	0.025	5	1	2	33
PL.54977	PL.54978	ABC	336 MCM AC	7.38Y	122.9	0.00	2.07	10.38	2	222	60	97	0.01	0.0	3.110	0.065	0	0	0	31
PL.53767	PL.54977	B	#4 ACSR	7.37Y	122.9	0.02	2.09	5.00	4	36	10	96	0.00	0.0	3.204	0.094	17	5	3	5
PL.53865	PL.53767	B	#1/0 ACSR	7.37Y	122.9	0.01	2.09	2.64	1	19	5	97	0.00	0.0	3.321	0.117	6	2	1	2
PL.53866	PL.53865	B	#1/0 ACSR	7.37Y	122.9	0.00	2.09	1.77	1	13	3	97	0.00	0.0	3.415	0.094	13	3	1	1
PL.33308	PL.54977	ABC	336 MCM AC	7.37Y	122.9	0.02	2.09	8.71	2	186	50	97	0.02	0.0	3.361	0.250	9	2	2	26
PL.33309	PL.33308	ABC	336 MCM AC	7.37Y	122.9	0.00	2.09	8.30	2	177	48	97	0.00	0.0	3.418	0.057	8	2	1	24
PL.33606	PL.33309	ABC	336 MCM AC	7.37Y	122.9	0.01	2.10	5.98	1	128	35	96	0.01	0.0	3.750	0.332	0	0	0	14
PL.33607	PL.33606	ABC	336 MCM AC	7.37Y	122.9	0.01	2.11	5.98	1	128	35	96	0.00	0.0	3.867	0.117	3	1	1	14
PL.33784	PL.33607	ABC	336 MCM AC	7.37Y	122.9	0.00	2.11	5.28	1	113	30	97	0.00	0.0	3.949	0.083	0	0	0	12

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33786	PL.33784	B	6 A (CWC)	7.37Y	122.9	0.00	2.12	1.94	1	14	4	96	0.00	0.0	3.996	0.046	12	3	1	2
PL.34396	PL.33786	B	6 A (CWC)	7.37Y	122.9	0.00	2.12	0.27	0	2	1	89	0.00	0.0	4.024	0.028	2	1	1	1
PL.33785	PL.33784	ABC	336 MCM AC	7.37Y	122.9	0.00	2.11	4.63	1	99	27	96	0.00	0.0	4.010	0.061	0	0	0	10
PL.62746	PL.33785	ABC	336 MCM AC	7.37Y	122.9	0.00	2.12	1.96	0	42	11	97	0.00	0.0	4.094	0.084	20	6	2	4
PL.62692	PL.62746	ABC	336 MCM AC	7.37Y	122.9	0.00	2.12	1.00	0	21	6	96	0.00	0.0	4.131	0.037	0	0	0	2
PL.59535	PL.62692	ABC	336 MCM AC	7.37Y	122.9	0.00	2.12	0.00	0	0	0	100	0.00	0.0	4.161	0.030	0	0	0	0
PD.8794-A	PL.59535	ABC	Open	7.37Y	122.9	0.00	2.12	0.00	0	0	0	100	0.00	0.0	4.161	0.030	0	0	0	0
PL.62690	PL.62692	B	#1/0 ACSR	7.37Y	122.9	0.00	2.12	2.99	1	21	6	96	0.00	0.0	4.171	0.040	9	2	1	2
PL.62691	PL.62690	B	#1/0 ACSR	7.37Y	122.9	0.00	2.12	1.79	1	13	3	97	0.00	0.0	4.228	0.057	13	3	1	1
PL.34397	PL.33785	B	6 A (CWC)	7.37Y	122.9	0.03	2.14	8.03	6	57	15	97	0.01	0.0	4.090	0.080	10	3	1	6
PL.55000	PL.34397	B	6 A (CWC)	7.37Y	122.8	0.01	2.15	6.56	5	47	13	96	0.00	0.0	4.127	0.037	0	0	0	5
PL.55049	PL.55000	B	#2 ACSR	7.37Y	122.8	0.00	2.15	0.00	0	0	0	100	0.00	0.0	4.204	0.077	0	0	0	0
PL.55050	PL.55000	B	6 A (CWC)	7.37Y	122.8	0.01	2.16	6.56	5	47	13	96	0.00	0.0	4.165	0.038	0	0	0	5
PL.55120	PL.55050	B	#1/0 ACSR	7.37Y	122.8	0.00	2.17	1.96	1	14	4	96	0.00	0.0	4.199	0.034	0	0	0	1
PL.55121	PL.55120	B	#1/0 ACSR	7.37Y	122.8	0.00	2.17	1.96	1	14	4	96	0.00	0.0	4.311	0.111	14	4	1	1
PL.55122	PL.55120	B	#1/0 ACSR	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	4.307	0.108	0	0	0	0
PL.55051	PL.55050	B	6 A (CWC)	7.37Y	122.8	0.02	2.18	4.60	3	33	9	96	0.00	0.0	4.277	0.112	23	6	2	4
PL.55001	PL.55051	B	6 A (CWC)	7.37Y	122.8	0.00	2.18	1.30	1	9	3	95	0.00	0.0	4.353	0.076	0	0	0	2
PL.54999	PL.55001	B	6 A (CWC)	7.37Y	122.8	0.00	2.19	1.30	1	9	3	95	0.00	0.0	4.433	0.080	9	3	2	2
PL.64866	PL.33607	B	#4 ACSR	7.37Y	122.9	0.00	2.11	1.70	1	12	3	97	0.00	0.0	3.937	0.071	12	3	1	1
PL.33465	PL.33309	B	6 A (CWC)	7.37Y	122.9	0.01	2.10	5.80	4	41	11	97	0.00	0.0	3.467	0.049	0	0	0	9
PL.34401	PL.33465	B	#2 ACSR	7.37Y	122.9	0.00	2.10	0.19	0	1	0	100	0.00	0.0	3.515	0.048	0	0	0	4
PL.33495	PL.34401	B	#2 ACSR	7.37Y	122.9	0.00	2.10	0.00	0	0	0	100	0.00	0.0	3.544	0.029	0	0	1	1
PL.33647	PL.34401	B	#2 ACSR	7.37Y	122.9	0.00	2.10	0.19	0	1	0	100	0.00	0.0	3.675	0.160	0	0	1	3
PL.55041	PL.33647	B	#2 ACSR	7.37Y	122.9	0.00	2.11	0.19	0	1	0	100	0.00	0.0	4.003	0.328	1	0	1	2
PL.55042	PL.55041	B	#2 ACSR	7.37Y	122.9	0.00	2.11	0.07	0	0	0	100	0.00	0.0	4.085	0.082	0	0	1	1
PL.34402	PL.33465	B	6 A (CWC)	7.37Y	122.9	0.01	2.11	5.61	4	40	11	96	0.00	0.0	3.487	0.020	0	0	0	5
PL.64858	PL.34402	B	#2 ACSR	7.37Y	122.9	0.00	2.11	1.01	1	7	2	96	0.00	0.0	3.529	0.042	7	2	1	1
PL.33831	PL.34402	B	6 A (CWC)	7.37Y	122.9	0.03	2.14	4.60	3	33	9	96	0.01	0.0	3.636	0.149	0	0	1	4
PL.33832	PL.33831	B	#2 ACSR	7.37Y	122.9	0.01	2.15	4.55	3	32	9	96	0.00	0.0	3.706	0.070	8	2	1	3
PL.55043	PL.33832	B	#2 ACSR	7.37Y	122.8	0.01	2.15	3.38	2	24	6	97	0.00	0.0	3.781	0.075	15	4	1	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.55044	PL.55043	B	#1/0 ACSR	7.37Y	122.8	0.00	2.15	1.26	1	9	2	98	0.00	0.0	3.801	0.020	0	0	0	1
PL.55045	PL.55044	B	1/0 AL URD	7.37Y	122.8	0.00	2.16	1.26	1	9	2	98	0.00	0.0	3.898	0.098	9	2	1	1
PL.57952	PL.57871	B	6 A (CWC)	7.38Y	122.9	0.00	2.06	0.00	0	0	0	100	0.00	0.0	3.089	0.177	0	0	0	0
PL.33285	PL.54985	B	6 A (CWC)	7.38Y	123.0	0.00	2.03	0.00	0	0	0	100	0.00	0.0	2.637	0.073	0	0	0	0
PL.55239	PL.55238	ABC	336 MCM AC	7.38Y	123.0	0.04	1.98	59.47	11	1266	365	96	0.24	0.0	1.829	0.080	0	0	0	161
PL.55225	PL.55239	ABC	336 MCM AC	7.38Y	123.0	0.02	2.00	59.27	11	1261	363	96	0.11	0.0	1.865	0.036	0	0	0	160
PL.55226	PL.55225	A	#4 ACSR	7.38Y	123.0	0.00	2.00	0.93	1	7	2	96	0.00	0.0	1.869	0.004	0	0	0	1
PD.8176	PL.55226	A	75QA	7.38Y	123.0	0.00	2.00	0.93	1	7	2	96	0.00	0.0	1.869	0.004	0	0	0	1
PL.55227	PD.8176	A	#4 ACSR	7.38Y	123.0	0.00	2.00	0.93	1	7	2	96	0.00	0.0	1.903	0.034	7	2	1	1
PL.55224	PL.55225	ABC	336 MCM AC	7.38Y	123.0	0.03	2.03	58.96	11	1255	361	96	0.21	0.0	1.939	0.074	24	7	3	159
PL.33652	PL.55224	ABC	336 MCM AC	7.38Y	122.9	0.05	2.08	57.84	11	1230	354	96	0.32	0.0	2.052	0.113	8	2	3	156
PL.33653	PL.33652	C	6 A (CWC)	7.38Y	122.9	0.00	2.08	1.56	1	11	3	96	0.00	0.0	2.053	0.001	0	0	0	2
PD.4982	PL.33653	C	75QA	7.38Y	122.9	0.00	2.08	1.56	2	11	3	96	0.00	0.0	2.053	0.001	0	0	0	2
PL.33654	PD.4982	C	6 A (CWC)	7.38Y	122.9	0.00	2.08	1.56	1	11	3	96	0.00	0.0	2.121	0.069	8	2	1	2
PL.33655	PL.33654	C	6 A (CWC)	7.38Y	122.9	0.00	2.08	0.39	0	3	1	95	0.00	0.0	2.140	0.019	3	1	1	1
PL.33620	PL.33652	ABC	336 MCM AC	7.37Y	122.9	0.04	2.12	56.93	11	1211	348	96	0.25	0.0	2.145	0.093	0	0	0	151
PL.33662	PL.33620	A	#4 ACSR	7.37Y	122.9	0.00	2.12	3.80	3	27	7	97	0.00	0.0	2.146	0.000	0	0	0	4
PD.4983	PL.33662	A	75QA	7.37Y	122.9	0.00	2.12	3.80	5	27	7	97	0.00	0.0	2.146	0.000	0	0	0	4
PL.33389	PD.4983	A	#4 ACSR	7.37Y	122.9	0.01	2.12	3.80	3	27	7	97	0.00	0.0	2.185	0.040	6	2	2	4
PL.59084	PL.33389	A	#4 ACSR	7.37Y	122.9	0.01	2.13	2.92	2	21	6	96	0.00	0.0	2.298	0.112	21	6	2	2
PL.62758	PL.33620	C	#1/0 ACSR	7.37Y	122.9	0.00	2.12	2.91	1	21	6	96	0.00	0.0	2.200	0.055	0	0	0	2
PL.62759	PL.62758	C	#1/0 ACSR	7.37Y	122.9	0.00	2.12	2.91	1	21	6	96	0.00	0.0	2.226	0.026	21	6	2	2
PL.33390	PL.33620	A	6 A (CWC)	7.37Y	122.9	0.00	2.12	1.44	1	10	3	96	0.00	0.0	2.146	0.000	0	0	0	1
PD.4977	PL.33390	A	75QA	7.37Y	122.9	0.00	2.12	1.44	2	10	3	96	0.00	0.0	2.146	0.000	0	0	0	1
PL.33391	PD.4977	A	6 A (CWC)	7.37Y	122.9	0.00	2.12	1.44	1	10	3	96	0.00	0.0	2.213	0.067	10	3	1	1
PL.33656	PL.33620	ABC	336 MCM AC	7.37Y	122.9	0.03	2.15	54.22	10	1152	332	96	0.19	0.0	2.221	0.076	5	1	1	144
PL.33304	PL.33656	ABC	336 MCM AC	7.37Y	122.8	0.02	2.17	53.99	10	1147	330	96	0.15	0.0	2.282	0.061	0	0	0	143
PL.33312	PL.33304	C	#4 ACSR	7.37Y	122.8	0.00	2.17	1.72	1	12	3	97	0.00	0.0	2.283	0.001	0	0	0	1
PD.5004	PL.33312	C	75QA	7.37Y	122.8	0.00	2.17	1.72	2	12	3	97	0.00	0.0	2.283	0.001	0	0	0	1
PL.33313	PD.5004	C	#4 ACSR	7.37Y	122.8	0.00	2.18	1.72	1	12	3	97	0.00	0.0	2.340	0.058	12	3	1	1
PL.33311	PL.33304	ABC	336 MCM AC	7.37Y	122.8	0.04	2.21	53.42	10	1135	326	96	0.23	0.0	2.377	0.094	0	0	0	142

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33263	PL.33311	ABC	336 MCM AC	7.36Y	122.7	0.04	2.25	49.39	10	1049	303	96	0.21	0.0	2.481	0.104	0	0	0	121
PL.55245	PL.33263	C	6 A (CWC)	7.36Y	122.7	0.00	2.25	15.75	11	112	30	97	0.00	0.0	2.486	0.006	0	0	0	10
PD.8179	PL.55245	C	30T	7.36Y	122.7	0.00	2.25	15.75	0	112	30	97	0.00	0.0	2.486	0.006	0	0	0	10
PL.55244	PD.8179	C	6 A (CWC)	7.36Y	122.7	0.04	2.30	15.75	11	112	30	97	0.03	0.0	2.553	0.067	19	5	1	10
PL.55246	PL.55244	C	#1/0 ACSR	7.36Y	122.7	0.00	2.30	1.41	1	10	3	96	0.00	0.0	2.608	0.055	10	3	1	1
PL.57717	PL.55244	C	6 A (CWC)	7.36Y	122.7	0.02	2.32	11.71	8	83	22	97	0.01	0.0	2.592	0.039	0	0	0	8
PL.57718	PL.57717	C	6 A (CWC)	7.36Y	122.7	0.02	2.34	7.75	6	55	15	96	0.01	0.0	2.649	0.057	7	2	1	6
PL.55242	PL.57718	C	#4 ACSR	7.36Y	122.7	0.01	2.34	2.11	2	15	4	97	0.00	0.0	2.775	0.126	15	4	1	1
PL.55243	PL.57718	C	6 A (CWC)	7.36Y	122.7	0.01	2.35	4.60	3	33	9	96	0.00	0.0	2.692	0.043	0	0	0	4
PL.33400	PL.55243	C	6 A (CWC)	7.36Y	122.6	0.00	2.35	1.18	1	8	2	97	0.00	0.0	2.798	0.106	8	2	1	1
PL.55247	PL.55243	C	#4 ACSR	7.36Y	122.6	0.00	2.35	3.41	3	24	7	96	0.00	0.0	2.752	0.060	24	7	2	3
PL.55248	PL.55247	C	#4 ACSR	7.36Y	122.6	0.00	2.35	0.00	0	0	0	100	0.00	0.0	2.798	0.046	0	0	1	1
PL.57719	PL.57717	C	6 A (CWC)	7.36Y	122.7	0.01	2.33	3.96	3	28	8	96	0.00	0.0	2.697	0.105	23	6	1	2
PL.57716	PL.57719	C	6 A (CWC)	7.36Y	122.7	0.00	2.33	0.78	1	6	1	99	0.00	0.0	2.733	0.036	6	1	1	1
PL.66210	PL.57716	C	#1/0 ACSR	7.36Y	122.7	0.00	2.33	0.00	0	0	0	100	0.00	0.0	2.786	0.053	0	0	0	0
PL.66211	PL.66210	C	#1/0 ACSR	7.36Y	122.7	0.00	2.33	0.00	0	0	0	100	0.00	0.0	2.832	0.046	0	0	0	0
PL.66212	PL.66211	C	#1/0 ACSR	7.36Y	122.7	0.00	2.33	0.00	0	0	0	100	0.00	0.0	2.896	0.064	0	0	0	0
PL.66213	PL.66212	C	1/0 AL URD	7.36Y	122.7	0.00	2.33	0.00	0	0	0	100	0.00	0.0	2.936	0.040	0	0	0	0
PL.33172	PL.33263	ABC	336 MCM AC	7.36Y	122.7	0.08	2.33	44.14	9	937	272	96	0.39	0.0	2.720	0.240	0	0	0	111
PL.33173	PL.33172	ABC	336 MCM AC	7.36Y	122.7	0.02	2.35	41.89	8	888	258	96	0.09	0.0	2.782	0.062	0	0	0	104
PL.33498	PL.33173	ABC	336 MCM AC	7.36Y	122.6	0.04	2.39	30.69	6	653	180	96	0.15	0.0	2.967	0.185	0	0	0	79
PL.55110	PL.33498	C	6 A (CWC)	7.34Y	122.3	0.28	2.67	84.93	61	602	166	96	1.24	0.2	3.038	0.071	4	1	1	72
PL.55111	PL.55110	C	6 A (CWC)	7.34Y	122.3	0.00	2.67	84.42	60	597	165	96	0.01	0.0	3.039	0.000	0	0	0	71
PD.4942	PL.55111	C	140L	7.34Y	122.3	0.00	2.67	84.42	60	597	165	96	0.00	0.0	3.039	0.000	0	0	0	71
PL.55078	PD.4942	C	6 A (CWC)	7.33Y	122.1	0.25	2.92	84.42	60	597	165	96	1.09	0.2	3.103	0.065	18	5	4	71
PL.55079	PL.55078	C	#4 ACSR	7.32Y	122.1	0.01	2.93	2.61	2	18	5	96	0.00	0.0	3.206	0.102	4	1	1	2
PL.33403	PL.55079	C	#4 ACSR	7.32Y	122.1	0.00	2.93	2.03	2	14	4	96	0.00	0.0	3.256	0.050	14	4	1	1
PL.55077	PL.55078	C	6 A (CWC)	7.32Y	121.9	0.15	3.07	79.31	57	560	154	96	0.64	0.1	3.146	0.042	4	1	1	65
PL.55054	PL.55077	C	6 A (CWC)	7.30Y	121.7	0.25	3.31	73.41	52	518	142	96	0.96	0.2	3.219	0.073	2	1	1	57
PL.55055	PL.55054	C	6 A (CWC)	7.29Y	121.5	0.23	3.54	73.15	52	515	141	96	0.88	0.2	3.287	0.068	0	0	0	56
PL.55052	PL.55055	C	#4 ACSR	7.29Y	121.5	0.00	3.54	2.98	2	21	6	96	0.00	0.0	3.340	0.053	21	6	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33407	PL.55055	C	6 A (CWC)	7.27Y	121.1	0.34	3.88	70.17	50	493	135	96	1.27	0.3	3.394	0.108	6	2	1	54
PL.61215	PL.33407	C	6 A (CWC)	7.26Y	120.9	0.17	4.05	62.30	44	437	119	96	0.55	0.1	3.453	0.059	0	0	0	50
PL.62780	PL.61215	C	6 A (CWC)	7.26Y	120.9	0.00	4.05	62.30	44	436	119	96	0.00	0.0	3.453	0.000	10	3	1	50
PL.62781	PL.62780	C	6 A (CWC)	7.24Y	120.7	0.29	4.34	60.85	43	426	116	96	0.92	0.2	3.559	0.106	14	4	2	49
PL.53899	PL.62781	C	#1/0 ACSR	7.24Y	120.6	0.07	4.41	45.29	20	316	86	96	0.14	0.0	3.622	0.063	0	0	0	36
PL.61248	PL.53899	C	#1/0 ACSR	7.24Y	120.6	0.00	4.41	0.00	0	0	0	100	0.00	0.0	3.649	0.027	0	0	0	0
PL.51856	PL.53899	C	#1/0 ACSR	7.23Y	120.5	0.05	4.46	45.29	20	316	86	96	0.11	0.0	3.671	0.049	15	4	1	36
PL.51855	PL.51856	C	#1/0 ACSR	7.23Y	120.5	0.07	4.53	43.11	19	301	82	96	0.14	0.0	3.741	0.069	0	0	0	35
PL.51963	PL.51855	C	#1/0 ACSR	7.23Y	120.5	0.00	4.53	1.04	0	7	2	96	0.00	0.0	3.759	0.018	0	0	0	1
PL.53636	PL.51963	C	#4 ACSR	7.23Y	120.5	0.00	4.53	1.04	1	7	2	96	0.00	0.0	3.896	0.137	7	2	1	1
PL.53974	PL.51855	C	#1/0 ACSR	7.22Y	120.4	0.08	4.61	42.07	18	293	80	96	0.17	0.1	3.827	0.086	0	0	0	34
PL.51964	PL.53974	C	#1/0 ACSR	7.21Y	120.2	0.19	4.80	40.88	18	285	77	97	0.36	0.1	4.024	0.197	0	0	0	32
PL.51967	PL.51964	C	#1/0 ACSR	7.21Y	120.2	0.02	4.82	39.03	17	272	74	96	0.04	0.0	4.047	0.023	0	0	0	31
PL.51732	PL.51967	C	#1/0 ACSR	7.21Y	120.2	0.03	4.84	36.32	16	253	68	97	0.04	0.0	4.077	0.030	10	3	1	29
PL.51734	PL.51732	C	#1/0 ACSR	7.21Y	120.1	0.04	4.88	14.98	7	104	28	97	0.03	0.0	4.207	0.130	8	2	2	13
PL.55084	PL.51734	C	#4 ACSR	7.21Y	120.1	0.01	4.89	12.39	10	86	23	97	0.01	0.0	4.228	0.020	9	2	1	9
PL.55086	PL.55084	C	#4 ACSR	7.21Y	120.1	0.02	4.91	11.13	9	77	21	96	0.01	0.0	4.262	0.034	8	2	1	8
PL.55085	PL.55086	C	#4 ACSR	7.20Y	120.1	0.01	4.92	10.04	8	70	19	97	0.00	0.0	4.281	0.019	0	0	0	7
PD.7995	PL.55085	C	50QA	7.20Y	120.1	0.00	4.92	10.04	20	70	19	97	0.00	0.0	4.281	0.019	0	0	0	7
PL.51958	PD.7995	C	#4 ACSR	7.20Y	120.1	0.00	4.92	10.04	8	70	19	97	0.00	0.0	4.281	0.000	0	0	1	7
PL.55087	PL.51958	C	6 A (CWC)	7.20Y	120.1	0.00	4.92	1.43	1	10	3	96	0.00	0.0	4.324	0.042	10	3	1	1
PL.55083	PL.55087	C	6 A (CWC)	7.20Y	120.1	0.00	4.92	0.00	0	0	0	100	0.00	0.0	4.374	0.050	0	0	0	0
PD.7956-B	PL.55083	C	Open	7.20Y	120.1	0.00	4.92	0.00	0	0	0	100	0.00	0.0	4.374	0.050	0	0	0	0
PL.51957	PL.51958	C	6 A (CWC)	7.20Y	120.1	0.03	4.95	2.61	2	18	5	96	0.00	0.0	4.499	0.217	0	0	0	1
PL.55088	PL.51957	C	#4 ACSR	7.20Y	120.0	0.01	4.95	2.61	2	18	5	96	0.00	0.0	4.619	0.120	18	5	1	1
PL.51959	PL.51957	C	6 A (CWC)	7.20Y	120.1	0.00	4.95	0.00	0	0	0	100	0.00	0.0	4.706	0.208	0	0	0	0
PL.55089	PL.51958	C	#2 ACSR	7.20Y	120.1	0.00	4.92	5.99	3	42	11	97	0.00	0.0	4.309	0.027	8	2	1	4
PL.55090	PL.55089	C	#2 ACSR	7.20Y	120.1	0.01	4.93	4.87	3	34	9	97	0.00	0.0	4.367	0.058	11	3	1	3
PL.54991	PL.55090	C	#2 ACSR	7.20Y	120.1	0.00	4.93	3.32	2	23	6	97	0.00	0.0	4.396	0.030	23	6	2	2
PL.51864	PL.51734	C	#4 ACSR	7.21Y	120.1	0.00	4.88	1.43	1	10	3	96	0.00	0.0	4.209	0.001	0	0	0	2
PD.7939	PL.51864	C	40QA	7.21Y	120.1	0.00	4.88	1.43	4	10	3	96	0.00	0.0	4.209	0.001	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.51863	PD.7939	C	#4 ACSR	7.21Y	120.1	0.00	4.89	1.43	1	10	3	96	0.00	0.0	4.255	0.046	10	3	1	2
PL.54990	PL.51863	C	#4 ACSR	7.21Y	120.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	4.355	0.100	0	0	1	1
PL.51735	PL.51732	C	#4 ACSR	7.21Y	120.2	0.00	4.84	19.96	15	139	38	96	0.00	0.0	4.077	0.000	0	0	0	15
PD.7938	PL.51735	C	30T	7.21Y	120.2	0.00	4.84	19.96	0	139	38	96	0.00	0.0	4.077	0.000	0	0	0	15
PL.51857	PD.7938	C	#4 ACSR	7.21Y	120.2	0.00	4.84	19.96	15	139	38	96	0.00	0.0	4.078	0.000	0	0	0	15
PL.51861	PL.51857	C	#2 ACSR	7.21Y	120.2	0.00	4.84	0.92	1	6	2	95	0.00	0.0	4.113	0.036	6	2	1	1
PL.61199	PL.51857	C	#4 ACSR	7.21Y	120.1	0.02	4.86	19.03	15	132	36	96	0.02	0.0	4.097	0.020	20	5	2	14
PL.61198	PL.61199	C	#4 ACSR	7.21Y	120.1	0.03	4.89	16.15	12	112	30	97	0.03	0.0	4.144	0.046	0	0	0	12
PL.51858	PL.61198	C	#4 ACSR	7.21Y	120.1	0.01	4.90	7.15	6	50	13	97	0.00	0.0	4.196	0.053	43	12	4	5
PL.51859	PL.51858	C	#4 ACSR	7.21Y	120.1	0.00	4.90	0.95	1	7	2	96	0.00	0.0	4.241	0.044	7	2	1	1
PL.57537	PL.61198	C	#4 ACSR	7.21Y	120.1	0.01	4.90	9.00	7	63	17	97	0.01	0.0	4.177	0.034	9	3	1	7
PL.57536	PL.57537	C	#4 ACSR	7.20Y	120.1	0.02	4.92	7.65	6	53	14	97	0.01	0.0	4.242	0.065	0	0	0	6
PL.51862	PL.57536	C	#2 ACSR	7.20Y	120.1	0.00	4.93	2.14	1	15	4	97	0.00	0.0	4.262	0.020	15	4	2	2
PL.55080	PL.57536	C	#4 ACSR	7.20Y	120.1	0.01	4.94	5.51	4	38	10	97	0.00	0.0	4.298	0.056	9	2	1	4
PL.55082	PL.55080	C	#1/0 ACSR	7.20Y	120.1	0.00	4.94	1.58	1	11	3	96	0.00	0.0	4.362	0.063	11	3	1	1
PL.55081	PL.55080	C	#4 ACSR	7.20Y	120.1	0.00	4.94	2.69	2	19	5	97	0.00	0.0	4.329	0.031	19	5	2	2
PL.51733	PL.51967	C	#4 ACSR	7.21Y	120.2	0.00	4.82	2.72	2	19	5	97	0.00	0.0	4.047	0.000	0	0	0	2
PD.7263	PL.51733	C	50QA	7.21Y	120.2	0.00	4.82	2.72	5	19	5	97	0.00	0.0	4.047	0.000	0	0	0	2
PL.46203	PD.7263	C	#1/0 ACSR	7.21Y	120.2	0.01	4.82	2.72	1	19	5	97	0.00	0.0	4.150	0.103	0	0	0	2
PL.46204	PL.46203	C	#4 ACSR	7.21Y	120.2	0.00	4.82	1.51	1	11	3	96	0.00	0.0	4.203	0.053	11	3	1	1
PL.51860	PL.46203	C	#4 ACSR	7.21Y	120.2	0.00	4.82	1.20	1	8	2	97	0.00	0.0	4.203	0.053	8	2	1	1
PL.51968	PL.51964	C	#4 ACSR	7.21Y	120.2	0.00	4.80	1.85	1	13	3	97	0.00	0.0	4.060	0.036	13	3	1	1
PL.51965	PL.53974	C	#1/0 ACSR	7.22Y	120.4	0.00	4.61	0.57	0	4	1	97	0.00	0.0	3.843	0.016	4	1	1	1
PL.51966	PL.53974	C	#4 ACSR	7.22Y	120.4	0.00	4.61	0.62	0	4	1	97	0.00	0.0	3.919	0.092	4	1	1	1
PL.53898	PL.62781	C	6 A (CWC)	7.24Y	120.6	0.06	4.40	13.51	10	94	26	96	0.05	0.0	3.667	0.108	6	2	2	11
PL.53735	PL.53898	C	6 A (CWC)	7.24Y	120.6	0.01	4.41	12.63	9	88	24	96	0.00	0.0	3.681	0.014	41	11	3	9
PL.53751	PL.53735	C	6 A (CWC)	7.23Y	120.6	0.02	4.44	6.80	5	48	13	97	0.01	0.0	3.761	0.080	0	0	0	6
PL.53869	PL.53751	C	6 A (CWC)	7.23Y	120.5	0.02	4.45	5.03	4	35	9	97	0.00	0.0	3.837	0.076	9	2	1	5
PL.57550	PL.53869	C	6 A (CWC)	7.23Y	120.5	0.01	4.46	3.44	2	24	6	97	0.00	0.0	3.934	0.097	5	1	1	3
PL.57552	PL.57550	C	#1/0 ACSR	7.23Y	120.5	0.00	4.47	2.69	1	19	5	97	0.00	0.0	3.964	0.030	0	0	0	2
PL.53846	PL.57552	C	#1/0 ACSR	7.23Y	120.5	0.00	4.47	1.52	1	11	3	96	0.00	0.0	4.014	0.050	11	3	1	1

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.53891	PL.57552	C	#1/0 ACSR	7.23Y	120.5	0.00	4.47	1.17	1	8	2	97	0.00	0.0	4.046	0.082	8	2	1	1
PL.53890	PL.53891	C	#1/0 ACSR	7.23Y	120.5	0.00	4.47	0.00	0	0	0	100	0.00	0.0	4.152	0.106	0	0	0	0
PL.57551	PL.57550	C	6 A (CWC)	7.23Y	120.5	0.00	4.46	0.00	0	0	0	100	0.00	0.0	3.967	0.033	0	0	0	0
PL.53868	PL.53869	C	#2 ACSR	7.23Y	120.5	0.00	4.45	0.31	0	2	1	89	0.00	0.0	3.882	0.046	2	1	1	1
PL.53752	PL.53751	C	#1/0 ACSR	7.23Y	120.6	0.00	4.44	1.77	1	12	3	97	0.00	0.0	3.801	0.040	12	3	1	1
PL.33408	PL.33407	C	6 A (CWC)	7.27Y	121.1	0.02	3.90	6.99	5	49	13	97	0.01	0.0	3.442	0.048	0	0	0	3
PL.33625	PL.33408	C	#2 ACSR	7.27Y	121.1	0.00	3.90	0.60	0	4	1	97	0.00	0.0	3.475	0.032	4	1	1	1
PL.64334	PL.33408	C	6 A (CWC)	7.27Y	121.1	0.01	3.91	6.39	5	45	12	97	0.00	0.0	3.465	0.023	0	0	0	2
PL.64335	PL.64334	C	6 A (CWC)	7.27Y	121.1	0.00	3.91	6.39	5	45	12	97	0.00	0.0	3.465	0.000	45	12	2	2
PL.55053	PL.55077	C	6 A (CWC)	7.32Y	121.9	0.01	3.08	5.26	4	37	10	97	0.00	0.0	3.177	0.031	0	0	1	7
PL.33406	PL.55053	C	6 A (CWC)	7.32Y	121.9	0.01	3.08	5.26	4	37	10	97	0.00	0.0	3.216	0.039	28	8	2	6
PL.62739	PL.33406	C	#1/0 ACSR	7.32Y	121.9	0.00	3.08	0.00	0	0	0	100	0.00	0.0	3.247	0.031	0	0	1	1
PL.53830	PL.33406	C	6 A (CWC)	7.31Y	121.9	0.00	3.08	1.26	1	9	2	98	0.00	0.0	3.299	0.083	9	2	3	3
PL.33404	PL.33498	ABC	336 MCM AC	7.36Y	122.6	0.00	2.39	2.38	0	51	14	96	0.00	0.0	3.022	0.055	15	4	2	7
PL.33405	PL.33404	ABC	336 MCM AC	7.36Y	122.6	0.00	2.39	1.69	0	36	10	96	0.00	0.0	3.095	0.073	15	4	2	5
PL.64859	PL.33405	ABC	336 MCM AC	7.36Y	122.6	0.00	2.39	0.97	0	21	6	96	0.00	0.0	3.172	0.077	0	0	0	3
PL.33163	PL.64859	A	#4 ACSR	7.36Y	122.6	0.00	2.40	1.09	1	8	2	97	0.00	0.0	3.350	0.178	8	2	1	1
PL.64860	PL.64859	ABC	336 MCM AC	7.36Y	122.6	0.00	2.39	0.61	0	13	4	96	0.00	0.0	3.234	0.062	13	4	2	2
PL.64861	PL.64860	ABC	336 MCM AC	7.36Y	122.6	0.00	2.39	0.00	0	0	0	100	0.00	0.0	3.276	0.042	0	0	0	0
PD.4951-B	PL.64861	ABC	Open	7.36Y	122.6	0.00	2.39	0.00	0	0	0	100	0.00	0.0	3.276	0.042	0	0	0	0
PL.33254	PL.33173	ABC	#4 ACSR	7.36Y	122.6	0.02	2.37	11.21	9	235	77	95	0.03	0.0	2.821	0.038	10	3	1	25
PL.33402	PL.33254	B	#4 ACSR	7.35Y	122.6	0.05	2.42	22.58	17	160	43	97	0.06	0.0	2.875	0.054	15	4	2	23
PL.57987	PL.33402	B	#4 ACSR	7.35Y	122.6	0.00	2.42	17.10	13	121	33	96	0.00	0.0	2.879	0.004	0	0	0	18
PD.8399	PL.57987	B	60QA	7.35Y	122.6	0.00	2.42	17.10	29	121	33	96	0.00	0.0	2.879	0.004	0	0	0	18
PL.59072	PD.8399	B	#4 ACSR	7.35Y	122.6	0.02	2.44	17.10	13	121	33	96	0.02	0.0	2.908	0.029	2	0	1	18
PL.59070	PL.59072	B	#4 ACSR	7.35Y	122.6	0.01	2.45	5.20	4	37	10	97	0.00	0.0	2.952	0.045	37	10	4	4
PL.59071	PL.59072	B	#4 ACSR	7.35Y	122.5	0.02	2.46	11.66	9	83	22	97	0.01	0.0	2.949	0.041	6	2	1	13
PL.55109	PL.59071	B	#4 ACSR	7.35Y	122.5	0.00	2.46	1.03	1	7	2	96	0.00	0.0	3.003	0.054	7	2	1	1
PL.55103	PL.59071	B	#2 ACSR	7.35Y	122.5	0.01	2.47	4.87	3	35	9	97	0.00	0.0	3.010	0.061	8	2	1	4
PL.54997	PL.55103	B	#2 ACSR	7.35Y	122.5	0.00	2.47	3.72	2	26	7	97	0.00	0.0	3.019	0.009	0	0	1	3
PL.54998	PL.54997	B	#2 ACSR	7.35Y	122.5	0.00	2.47	3.71	2	26	7	97	0.00	0.0	3.034	0.014	13	3	1	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.54996	PL.54998	B	#2 ACSR	7.35Y	122.5	0.00	2.47	1.91	1	14	4	96	0.00	0.0	3.049	0.015	14	4	1	1
PL.55107	PL.59071	B	#4 ACSR	7.35Y	122.5	0.01	2.47	4.89	4	35	9	97	0.00	0.0	2.993	0.044	12	3	2	7
PL.55108	PL.55107	B	#4 ACSR	7.35Y	122.5	0.01	2.48	3.13	2	22	6	96	0.00	0.0	3.038	0.045	0	0	0	5
PL.55106	PL.55108	B	#1/0 ACSR	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	3.049	0.011	0	0	0	0
PL.53838	PL.55106	B	1/0 AL URD	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	3.069	0.021	0	0	0	0
PL.53839	PL.53838	B	1/0 AL URD	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	3.109	0.039	0	0	0	0
PL.53840	PL.53839	B	1/0 AL URD	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	3.136	0.027	0	0	0	0
PL.53841	PL.53840	B	1/0 AL URD	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	3.193	0.057	0	0	0	0
PL.53842	PL.53841	B	1/0 AL URD	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	3.239	0.046	0	0	0	0
PL.53843	PL.53842	B	1/0 AL URD	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	3.294	0.055	0	0	0	0
PL.53844	PL.53843	B	1/0 AL URD	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	3.320	0.026	0	0	0	0
PL.53845	PL.53844	B	1/0 AL URD	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	3.351	0.031	0	0	0	0
PL.53837	PL.55106	B	1/0 AL URD	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	3.101	0.052	0	0	0	0
PL.55105	PL.55108	B	#4 ACSR	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	3.084	0.046	0	0	0	0
PL.55104	PL.55108	B	#4 ACSR	7.35Y	122.5	0.00	2.48	3.13	2	22	6	96	0.00	0.0	3.068	0.029	22	6	5	5
PL.57985	PL.33402	B	#4 ACSR	7.35Y	122.6	0.00	2.42	3.42	3	24	7	96	0.00	0.0	2.909	0.034	11	3	1	3
PL.57986	PL.57985	B	#4 ACSR	7.35Y	122.6	0.00	2.42	1.85	1	13	4	96	0.00	0.0	2.954	0.045	13	4	2	2
PL.64865	PL.33254	ABC	#4 ACSR	7.36Y	122.6	0.00	2.37	3.27	3	65	31	90	0.00	0.0	2.842	0.021	65	31	1	1
PL.33180	PL.33172	C	#4 ACSR	7.36Y	122.7	0.00	2.33	6.77	5	48	13	97	0.00	0.0	2.721	0.001	0	0	0	7
PD.4954	PL.33180	C	60QA	7.36Y	122.7	0.00	2.33	6.77	11	48	13	97	0.00	0.0	2.721	0.001	0	0	0	7
PL.33593	PD.4954	C	#4 ACSR	7.36Y	122.7	0.01	2.34	6.77	5	48	13	97	0.00	0.0	2.754	0.033	5	1	2	7
PL.33401	PL.33593	C	#4 ACSR	7.36Y	122.7	0.01	2.35	6.07	5	43	12	96	0.00	0.0	2.783	0.028	10	3	2	5
PL.53867	PL.33401	C	#4 ACSR	7.36Y	122.6	0.00	2.35	4.73	4	34	9	97	0.00	0.0	2.818	0.035	34	9	3	3
PL.33392	PL.33311	C	6 A (CWC)	7.37Y	122.8	0.00	2.21	0.00	0	0	0	100	0.00	0.0	2.377	0.000	0	0	0	2
PD.4898	PL.33392	C	75QA	7.37Y	122.8	0.00	2.21	0.00	0	0	0	100	0.00	0.0	2.377	0.000	0	0	0	2
PL.33393	PD.4898	C	6 A (CWC)	7.37Y	122.8	0.00	2.21	0.00	0	0	0	100	0.00	0.0	2.397	0.020	0	0	2	2
PL.33503	PL.33311	A	6 A (CWC)	7.37Y	122.8	0.00	2.21	12.08	9	86	23	97	0.00	0.0	2.377	0.000	0	0	0	19
PD.4941	PL.33503	A	50L	7.37Y	122.8	0.00	2.21	12.08	24	86	23	97	0.00	0.0	2.377	0.000	0	0	0	19
PL.33394	PD.4941	A	6 A (CWC)	7.37Y	122.8	0.03	2.24	12.08	9	86	23	97	0.02	0.0	2.436	0.059	5	1	1	19
PL.33504	PL.33394	A	6 A (CWC)	7.36Y	122.7	0.03	2.27	11.42	8	81	22	97	0.02	0.0	2.496	0.060	1	0	2	18
PL.33457	PL.33504	A	6 A (CWC)	7.36Y	122.7	0.00	2.28	0.51	0	4	1	97	0.00	0.0	2.615	0.119	4	1	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33505	PL.33504	A	6 A (CWC)	7.36Y	122.6	0.08	2.36	10.78	8	77	21	96	0.05	0.1	2.675	0.180	7	2	1	14
PL.33398	PL.33505	A	6 A (CWC)	7.36Y	122.6	0.01	2.37	5.23	4	37	10	97	0.00	0.0	2.720	0.045	32	9	3	9
PL.55162	PL.33398	A	6 A (CWC)	7.36Y	122.6	0.00	2.37	0.75	1	5	1	98	0.00	0.0	2.850	0.130	0	0	1	6
PL.55163	PL.55162	A	6 A (CWC)	7.36Y	122.6	0.00	2.37	0.74	1	5	1	98	0.00	0.0	3.004	0.153	1	0	1	5
PL.55155	PL.55163	A	6 A (CWC)	7.36Y	122.6	0.00	2.38	0.63	0	4	1	97	0.00	0.0	3.093	0.089	0	0	0	4
PL.55156	PL.55155	A	6 A (CWC)	7.36Y	122.6	0.00	2.38	0.58	0	4	1	97	0.00	0.0	3.131	0.038	4	1	1	1
PL.33399	PL.55155	A	#4 ACSR	7.36Y	122.6	0.00	2.38	0.04	0	0	0	100	0.00	0.0	3.138	0.045	0	0	0	3
PL.55157	PL.33399	A	#4 ACSR	7.36Y	122.6	0.00	2.38	0.04	0	0	0	100	0.00	0.0	3.241	0.103	0	0	3	3
PL.33395	PL.33505	A	6 A (CWC)	7.36Y	122.6	0.01	2.37	3.12	2	22	6	96	0.00	0.0	2.741	0.065	8	2	1	3
PL.33396	PL.33395	A	6 A (CWC)	7.36Y	122.6	0.01	2.38	1.98	1	14	4	96	0.00	0.0	2.849	0.109	4	1	1	2
PL.33397	PL.33396	A	6 A (CWC)	7.36Y	122.6	0.00	2.38	1.45	1	10	3	96	0.00	0.0	2.916	0.067	10	3	1	1
PL.33589	PL.33505	A	6 A (CWC)	7.36Y	122.6	0.00	2.36	1.45	1	10	3	96	0.00	0.0	2.764	0.089	10	3	1	1
PL.55222	PL.55239	B	#1/0 ACSR	7.38Y	123.0	0.00	1.98	0.60	0	4	1	97	0.00	0.0	1.832	0.003	0	0	0	1
PD.8175	PL.55222	B	10QA	7.38Y	123.0	0.00	1.98	0.60	0	4	1	97	0.00	0.0	1.832	0.003	0	0	0	1
PL.55223	PD.8175	B	#1/0 ACSR	7.38Y	123.0	0.00	1.98	0.60	0	4	1	97	0.00	0.0	1.857	0.025	4	1	1	1
PL.54817	PL.54822	ABC	#4 ACSR	7.39Y	123.2	0.00	1.79	0.06	0	1	0	100	0.00	0.0	1.597	0.002	0	0	0	1
PD.8196	PL.54817	ABC	25QA	7.39Y	123.2	0.00	1.79	0.06	0	1	0	100	0.00	0.0	1.597	0.002	0	0	0	1
PL.54818	PD.8196	ABC	#4 ACSR	7.39Y	123.2	0.00	1.79	0.06	0	1	0	100	0.00	0.0	1.654	0.057	0	0	0	1
PL.54819	PL.54818	ABC	#4 ACSR	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	1.677	0.023	0	0	0	0
PL.54820	PL.54818	A	#2 ACSR	7.39Y	123.2	0.00	1.79	0.17	0	1	0	100	0.00	0.0	1.655	0.001	0	0	0	1
PD.5003	PL.54820	A	75QA	7.39Y	123.2	0.00	1.79	0.17	0	1	0	100	0.00	0.0	1.655	0.001	0	0	0	1
PL.33649	PD.5003	A	#2 ACSR	7.39Y	123.2	0.00	1.79	0.17	0	1	0	100	0.00	0.0	1.693	0.039	1	0	1	1
PL.55349	PL.55353	C	#1/0 ACSR	7.41Y	123.6	0.00	1.44	1.38	1	10	3	96	0.00	0.0	1.263	0.003	0	0	0	1
PD.8191	PL.55349	C	20QA	7.41Y	123.6	0.00	1.44	1.38	7	10	3	96	0.00	0.0	1.263	0.003	0	0	0	1
PL.55350	PD.8191	C	#1/0 ACSR	7.41Y	123.6	0.00	1.44	1.38	1	10	3	96	0.00	0.0	1.273	0.010	10	3	1	1
PL.55355	PL.55354	C	6 A (CWC)	7.42Y	123.7	0.00	1.31	1.64	1	12	3	97	0.00	0.0	1.134	0.003	0	0	0	2
PD.8192	PL.55355	C	75QA	7.42Y	123.7	0.00	1.31	1.64	2	12	3	97	0.00	0.0	1.134	0.003	0	0	0	2
PL.55356	PD.8192	C	6 A (CWC)	7.42Y	123.7	0.00	1.31	1.64	1	12	3	97	0.00	0.0	1.176	0.042	5	1	1	2
PL.55357	PL.55356	C	6 A (CWC)	7.42Y	123.7	0.00	1.31	0.87	1	6	2	95	0.00	0.0	1.204	0.028	6	2	1	1
PL.55360	PL.55363	C	6 A (CWC)	7.43Y	123.9	0.00	1.12	5.59	4	40	11	96	0.00	0.0	0.954	0.004	0	0	0	5
PD.8193	PL.55360	C	75QA	7.43Y	123.9	0.00	1.12	5.59	7	40	11	96	0.00	0.0	0.954	0.004	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.55361	PD.8193	C	6 A (CWC)	7.43Y	123.9	0.01	1.13	5.59	4	40	11	96	0.00	0.0	1.023	0.069	24	7	3	5
PL.55359	PL.55361	C	6 A (CWC)	7.43Y	123.9	0.00	1.13	2.20	2	16	4	97	0.00	0.0	1.086	0.063	16	4	2	2
CP.49	PL.33551	ABC	Cap (300)	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	0.357	0.063	0	0	0	0
PL.54824	PL.55135	C	6 A (CWC)	7.48Y	124.6	0.00	0.42	6.00	4	43	12	96	0.00	0.0	0.349	0.004	0	0	0	7
PD.8197	PL.54824	C	75QA	7.48Y	124.6	0.00	0.42	6.00	8	43	12	96	0.00	0.0	0.349	0.004	0	0	0	7
PL.54825	PD.8197	C	6 A (CWC)	7.47Y	124.6	0.01	0.43	6.00	4	43	12	96	0.00	0.0	0.403	0.054	5	1	1	7
PL.55384	PL.54825	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	3.38	1	24	7	96	0.00	0.0	0.422	0.019	5	1	1	3
PL.55367	PL.55384	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	2.72	1	20	5	97	0.00	0.0	0.456	0.034	20	5	2	2
PL.64873	PL.54825	C	6 A (CWC)	7.47Y	124.6	0.01	0.44	1.98	1	14	4	96	0.00	0.0	0.473	0.070	0	0	1	3
PL.64874	PL.64873	C	6 A (CWC)	7.47Y	124.6	0.00	0.44	1.98	1	14	4	96	0.00	0.0	0.539	0.066	14	4	2	2
PL.52864	Bush	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	79.42	15	1718	492	96	0.00	0.0	0.002	0.002	0	0	0	269
PL.52865	PL.52864	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	79.42	15	1718	492	96	0.00	0.0	0.005	0.003	0	0	0	269
---------- Feeder No. 1 (Marydale F1) Beginning with Device PD.8053 ----------																				
PD.8053	PL.52865	ABC	480VWE	7.50Y	125.0	0.00	0.00	79.42	0	1718	492	96	0.00	0.0	0.005	0.003	0	0	0	269
PL.33355	PD.8053	ABC	397 SPACER	7.50Y	125.0	0.02	0.02	79.42	15	1718	492	96	0.07	0.0	0.089	0.084	51	14	1	269
PL.33356	PL.33355	ABC	397 SPACER	7.50Y	125.0	0.00	0.02	77.08	15	1667	478	96	0.00	0.0	0.095	0.006	10	3	1	268
PL.33357	PL.33356	ABC	397 SPACER	7.50Y	125.0	0.00	0.02	76.61	15	1657	475	96	0.00	0.0	0.097	0.002	0	0	0	267
PL.33621	PL.33357	ABC	#3/0 ACSR	7.49Y	124.8	0.13	0.16	76.61	26	1657	475	96	1.34	0.1	0.234	0.137	13	3	2	267
PL.33595	PL.33621	ABC	#3/0 ACSR	7.49Y	124.8	0.06	0.21	76.02	25	1643	469	96	0.57	0.0	0.292	0.058	0	0	0	265
PL.33360	PL.33595	ABC	#3/0 ACSR	7.48Y	124.7	0.07	0.28	76.00	25	1641	468	96	0.69	0.0	0.364	0.072	14	4	1	264
PL.33361	PL.33360	ABC	#3/0 ACSR	7.48Y	124.7	0.02	0.30	75.36	25	1627	464	96	0.23	0.0	0.389	0.024	3	1	1	263
PL.55249	PL.33361	ABC	#3/0 ACSR	7.48Y	124.6	0.08	0.38	75.20	25	1623	462	96	0.77	0.0	0.470	0.081	0	0	0	262
PL.55250	PL.55249	ABC	#3/0 ACSR	7.47Y	124.5	0.11	0.49	74.98	25	1618	460	96	1.09	0.1	0.587	0.117	24	6	2	261
PL.55061	PL.55250	ABC	#3/0 ACSR	7.46Y	124.4	0.09	0.59	73.89	25	1593	452	96	0.92	0.1	0.687	0.100	0	0	0	259
PL.33363	PL.55061	C	#4 ACSR	7.46Y	124.4	0.00	0.59	3.47	3	25	7	96	0.00	0.0	0.689	0.002	0	0	0	3
PD.4933	PL.33363	C	40QA	7.46Y	124.4	0.00	0.59	3.47	9	25	7	96	0.00	0.0	0.689	0.002	0	0	0	3
PL.55116	PD.4933	C	#4 ACSR	7.46Y	124.4	0.01	0.59	3.47	3	25	7	96	0.00	0.0	0.748	0.059	11	3	1	3
PL.55117	PL.55116	C	#4 ACSR	7.46Y	124.4	0.01	0.60	1.91	1	14	4	96	0.00	0.0	0.831	0.083	3	1	1	2
PL.55060	PL.55117	C	#4 ACSR	7.46Y	124.4	0.00	0.60	1.48	1	11	3	96	0.00	0.0	0.905	0.074	11	3	1	1

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33362	PL.55061	ABC	#3/0 ACSR	7.46Y	124.4	0.04	0.62	72.73	24	1567	444	96	0.35	0.0	0.727	0.040	37	10	4	256
PL.33459	PL.33362	ABC	#1/0 ACSR	7.45Y	124.2	0.16	0.78	69.58	30	1499	425	96	1.60	0.1	0.851	0.124	0	0	0	242
PL.33236	PL.33459	A	6 A (CWC)	7.45Y	124.2	0.00	0.78	9.09	6	65	18	96	0.00	0.0	0.855	0.003	0	0	0	10
PD.4934	PL.33236	A	40QA	7.45Y	124.2	0.00	0.78	9.09	23	65	18	96	0.00	0.0	0.855	0.003	0	0	0	10
PL.33237	PD.4934	A	6 A (CWC)	7.45Y	124.1	0.10	0.89	9.09	6	65	18	96	0.05	0.1	1.107	0.253	0	0	0	10
PL.64864	PL.33237	A	#4 ACSR	7.45Y	124.1	0.00	0.89	1.29	1	9	3	95	0.00	0.0	1.195	0.088	9	3	1	1
PL.33238	PL.33237	A	6 A (CWC)	7.44Y	124.1	0.03	0.92	7.79	6	56	15	97	0.01	0.0	1.204	0.097	0	0	0	9
PL.54983	PL.33238	A	#4 ACSR	7.44Y	124.1	0.00	0.92	1.18	1	9	2	98	0.00	0.0	1.243	0.039	9	2	1	1
PL.33239	PL.33238	A	6 A (CWC)	7.44Y	124.1	0.01	0.93	6.61	5	47	13	96	0.00	0.0	1.246	0.042	0	0	0	8
PL.33240	PL.33239	A	6 A (CWC)	7.44Y	124.1	0.01	0.94	6.61	5	47	13	96	0.00	0.0	1.285	0.038	10	3	1	8
PL.54980	PL.33240	A	6 A (CWC)	7.44Y	124.1	0.01	0.95	3.07	2	22	6	96	0.00	0.0	1.342	0.057	8	2	1	4
PL.54981	PL.54980	A	6 A (CWC)	7.44Y	124.0	0.00	0.95	1.77	1	13	3	97	0.00	0.0	1.379	0.037	0	0	0	1
PL.33241	PL.54981	A	6 A (CWC)	7.44Y	124.0	0.01	0.96	1.77	1	13	3	97	0.00	0.0	1.520	0.141	13	3	1	1
PL.54979	PL.54980	A	#4 ACSR	7.44Y	124.1	0.00	0.95	0.18	0	1	0	100	0.00	0.0	1.412	0.070	1	0	2	2
PL.33534	PL.33240	A	#4 ACSR	7.44Y	124.1	0.00	0.94	2.21	2	16	4	97	0.00	0.0	1.322	0.038	16	4	3	3
PL.33242	PL.33459	ABC	#1/0 ACSR	7.45Y	124.1	0.09	0.87	66.55	29	1432	406	96	0.92	0.1	0.929	0.078	0	0	0	232
PL.33243	PL.33242	ABC	#1/0 ACSR	7.45Y	124.1	0.03	0.90	66.55	29	1431	405	96	0.31	0.0	0.955	0.026	2	0	1	232
PL.33244	PL.33243	ABC	#1/0 ACSR	7.44Y	124.0	0.11	1.01	66.47	29	1429	404	96	1.07	0.1	1.046	0.091	0	0	0	231
PL.54787	PL.33244	ABC	#1/0 ACSR	7.43Y	123.9	0.09	1.10	64.19	28	1378	390	96	0.81	0.1	1.120	0.074	1	0	1	222
PL.54790	PL.54787	ABC	#1/0 ACSR	7.43Y	123.8	0.12	1.22	63.87	28	1371	387	96	1.10	0.1	1.222	0.102	6	2	1	220
PL.62765	PL.54790	ABC	#1/0 ACSR	7.42Y	123.7	0.04	1.26	63.20	27	1355	382	96	0.40	0.0	1.259	0.038	13	3	1	218
PL.62766	PL.62765	ABC	#1/0 ACSR	7.42Y	123.7	0.05	1.31	62.62	27	1342	379	96	0.46	0.0	1.303	0.044	5	1	1	217
PL.54793	PL.62766	ABC	#1/0 ACSR	7.41Y	123.6	0.12	1.42	62.37	27	1337	377	96	1.06	0.1	1.406	0.103	9	2	3	216
PL.54797	PL.54793	ABC	#1/0 ACSR	7.41Y	123.5	0.03	1.45	61.97	27	1327	373	96	0.25	0.0	1.430	0.024	10	3	1	213
PL.54796	PL.54797	C	#4 ACSR	7.41Y	123.5	0.00	1.45	1.67	1	12	3	97	0.00	0.0	1.435	0.004	0	0	0	1
PD.8171	PL.54796	C	40QA	7.41Y	123.5	0.00	1.45	1.67	4	12	3	97	0.00	0.0	1.435	0.004	0	0	0	1
PL.54794	PD.8171	C	#4 ACSR	7.41Y	123.5	0.00	1.45	1.67	1	12	3	97	0.00	0.0	1.478	0.043	12	3	1	1
PL.54795	PL.54797	ABC	#1/0 ACSR	7.40Y	123.3	0.28	1.73	60.28	26	1290	363	96	2.45	0.2	1.683	0.253	0	0	0	208
PL.55070	PL.54795	ABC	#1/0 ACSR	7.39Y	123.2	0.06	1.79	60.05	26	1283	360	96	0.52	0.0	1.738	0.055	12	3	1	206
PL.55071	PL.55070	ABC	#1/0 ACSR	7.39Y	123.2	0.03	1.82	59.51	26	1271	356	96	0.28	0.0	1.768	0.030	19	5	2	205
PL.33538	PL.55071	ABC	#1/0 ACSR	7.38Y	123.0	0.17	1.99	55.29	24	1180	331	96	1.36	0.1	1.936	0.168	10	3	2	194

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33685	PL.33538	ABC	#1/0 ACSR	7.37Y	122.8	0.26	2.25	53.73	23	1146	321	96	2.09	0.2	2.207	0.271	0	0	0	189
PL.33132	PL.33685	C	#4 ACSR	7.37Y	122.8	0.00	2.25	1.34	1	10	3	96	0.00	0.0	2.208	0.001	0	0	0	2
PD.4993	PL.33132	C	40QA	7.37Y	122.8	0.00	2.25	1.34	3	10	3	96	0.00	0.0	2.208	0.001	0	0	0	2
PL.55009	PD.4993	C	#4 ACSR	7.36Y	122.7	0.01	2.26	1.34	1	10	3	96	0.00	0.0	2.425	0.217	10	3	2	2
PL.55010	PL.55009	C	#4 ACSR	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	2.542	0.116	0	0	0	0
PL.33427	PL.33685	C	#4 ACSR	7.36Y	122.7	0.00	2.25	0.80	1	6	2	95	0.00	0.0	2.301	0.094	1	0	1	2
PL.33779	PL.33427	C	#4 ACSR	7.36Y	122.7	0.00	2.25	0.70	1	5	1	98	0.00	0.0	2.388	0.088	0	0	0	1
PL.33780	PL.33779	C	#4 ACSR	7.36Y	122.7	0.00	2.26	0.70	1	5	1	98	0.00	0.0	2.497	0.109	5	1	1	1
PL.33202	PL.33779	C	#4 ACSR	7.36Y	122.7	0.00	2.25	0.00	0	0	0	100	0.00	0.0	2.467	0.078	0	0	0	0
PL.33770	PL.33685	ABC	#1/0 ACSR	7.36Y	122.6	0.10	2.35	53.02	23	1128	315	96	0.81	0.1	2.315	0.108	2	1	1	185
PL.53820	PL.33770	ABC	#1/0 ACSR	7.35Y	122.6	0.09	2.44	52.91	23	1125	314	96	0.68	0.1	2.406	0.091	0	0	0	184
PL.53821	PL.53820	ABC	#1/0 ACSR	7.34Y	122.4	0.21	2.65	52.24	23	1110	309	96	1.60	0.1	2.627	0.221	8	2	1	183
PL.53916	PL.53821	ABC	#1/0 ACSR	7.33Y	122.2	0.15	2.80	51.66	22	1096	304	96	1.17	0.1	2.793	0.165	0	0	0	181
PL.53917	PL.53916	A	#4 ACSR	7.33Y	122.2	0.00	2.80	1.29	1	9	2	98	0.00	0.0	2.793	0.001	0	0	0	1
PD.4914	PL.53917	A	40QA	7.33Y	122.2	0.00	2.80	1.29	3	9	2	98	0.00	0.0	2.793	0.001	0	0	0	1
PL.33287	PD.4914	A	#4 ACSR	7.33Y	122.2	0.00	2.80	1.29	1	9	2	98	0.00	0.0	2.891	0.098	9	2	1	1
PL.53918	PL.53916	ABC	#1/0 ACSR	7.32Y	122.1	0.13	2.93	51.23	22	1086	301	96	1.01	0.1	2.937	0.144	0	0	0	180
PL.33609	PL.53918	ABC	#1/0 ACSR	7.32Y	122.0	0.08	3.01	51.02	22	1081	298	96	0.60	0.1	3.024	0.087	0	0	0	178
PL.33610	PL.33609	ABC	#1/0 ACSR	7.32Y	121.9	0.04	3.05	50.82	22	1076	297	96	0.29	0.0	3.067	0.043	0	0	0	176
PL.33774	PL.33610	ABC	#1/0 ACSR	7.31Y	121.9	0.08	3.13	46.99	20	994	274	96	0.53	0.1	3.158	0.091	0	0	0	166
PL.33783	PL.33774	ABC	#1/0 ACSR	7.30Y	121.7	0.17	3.30	46.34	20	980	270	96	1.18	0.1	3.365	0.207	6	2	1	164
PL.63848	PL.33783	ABC	#1/0 ACSR	7.30Y	121.6	0.11	3.41	46.06	20	973	268	96	0.74	0.1	3.497	0.132	0	0	0	163
PL.63849	PL.63848	ABC	#1/0 ACSR	7.30Y	121.6	0.00	3.41	46.06	20	972	267	96	0.00	0.0	3.497	0.000	1	0	1	163
PL.33419	PL.63849	C	6 A (CWC)	7.30Y	121.6	0.00	3.41	5.98	4	42	11	97	0.00	0.0	3.498	0.001	0	0	0	10
PD.4987	PL.33419	C	40QA	7.30Y	121.6	0.00	3.41	5.98	15	42	11	97	0.00	0.0	3.498	0.001	0	0	0	10
PL.33789	PD.4987	C	6 A (CWC)	7.29Y	121.5	0.05	3.46	5.98	4	42	11	97	0.02	0.0	3.679	0.182	0	0	0	10
PL.53668	PL.33789	C	#2 ACSR	7.29Y	121.5	0.01	3.47	5.10	3	36	10	96	0.00	0.0	3.733	0.053	19	5	5	7
PL.53870	PL.53668	C	#2 ACSR	7.29Y	121.5	0.00	3.47	2.46	1	17	5	96	0.00	0.0	3.774	0.041	7	2	1	2
PL.53871	PL.53870	C	#1/0 ACSR	7.29Y	121.5	0.00	3.47	1.44	1	10	3	96	0.00	0.0	3.827	0.053	10	3	1	1
PL.53816	PL.33789	C	6 A (CWC)	7.29Y	121.5	0.00	3.47	0.87	1	6	2	95	0.00	0.0	3.739	0.060	0	0	1	3
PL.53817	PL.53816	C	6 A (CWC)	7.29Y	121.5	0.01	3.47	0.87	1	6	2	95	0.00	0.0	3.942	0.202	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.34398	PL.53817	C	6 A (CWC)	7.29Y	121.5	0.00	3.48	0.24	0	2	0	100	0.00	0.0	4.129	0.188	0	0	0	1
PL.33314	PL.34398	C	#2 ACSR	7.29Y	121.5	0.00	3.48	0.24	0	2	0	100	0.00	0.0	4.186	0.057	2	0	1	1
PL.34399	PL.34398	C	6 A (CWC)	7.29Y	121.5	0.00	3.48	0.00	0	0	0	100	0.00	0.0	4.379	0.250	0	0	0	0
PL.33284	PL.53817	C	#4 ACSR	7.29Y	121.5	0.00	3.48	0.64	0	4	1	97	0.00	0.0	4.196	0.255	4	1	1	1
PL.33787	PL.63849	ABC	#1/0 ACSR	7.29Y	121.5	0.04	3.45	44.03	19	929	255	96	0.26	0.0	3.547	0.050	0	0	0	152
PL.57356	PL.33787	C	6 A (CWC)	7.29Y	121.5	0.00	3.45	2.12	2	15	4	97	0.00	0.0	3.565	0.018	15	4	1	1
PL.53913	PL.33787	ABC	#1/0 ACSR	7.29Y	121.5	0.06	3.51	43.33	19	914	251	96	0.38	0.0	3.623	0.076	0	0	0	151
PL.53914	PL.53913	ABC	#1/0 ACSR	7.29Y	121.5	0.02	3.53	43.33	19	914	251	96	0.13	0.0	3.649	0.026	15	4	2	151
PL.53667	PL.53914	ABC	#1/0 ACSR	7.29Y	121.4	0.02	3.55	42.62	19	899	246	96	0.14	0.0	3.678	0.029	0	0	0	149
PL.33788	PL.53667	C	6 A (CWC)	7.29Y	121.4	0.00	3.55	0.02	0	0	0	100	0.00	0.0	3.679	0.001	0	0	0	1
PD.4936	PL.33788	C	30QA	7.29Y	121.4	0.00	3.55	0.02	0	0	0	100	0.00	0.0	3.679	0.001	0	0	0	1
PL.53805	PD.4936	C	6 A (CWC)	7.29Y	121.4	0.00	3.55	0.02	0	0	0	100	0.00	0.0	3.695	0.016	0	0	1	1
PL.33776	PL.53667	ABC	#1/0 ACSR	7.28Y	121.4	0.06	3.62	42.62	19	898	246	96	0.41	0.0	3.763	0.085	4	1	5	148
PL.33190	PL.33776	A	#4 ACSR	7.28Y	121.4	0.00	3.62	9.70	7	68	18	97	0.00	0.0	3.763	0.000	0	0	0	8
PD.4974	PL.33190	A	40QA	7.28Y	121.4	0.00	3.62	9.70	24	68	18	97	0.00	0.0	3.763	0.000	0	0	0	8
PL.54368	PD.4974	A	#4 ACSR	7.28Y	121.4	0.02	3.64	9.70	7	68	18	97	0.01	0.0	3.809	0.045	14	4	1	8
PL.54369	PL.54368	A	#4 ACSR	7.28Y	121.4	0.00	3.64	5.31	4	37	10	97	0.00	0.0	3.821	0.013	0	0	0	5
PL.53906	PL.54369	A	#4 ACSR	7.28Y	121.4	0.01	3.65	3.89	3	27	7	97	0.00	0.0	3.873	0.052	0	0	0	4
PL.53905	PL.53906	A	#4 ACSR	7.28Y	121.3	0.01	3.66	3.89	3	27	7	97	0.00	0.0	3.930	0.056	0	0	0	4
PL.33127	PL.53905	A	#4 ACSR	7.28Y	121.3	0.00	3.66	0.34	0	2	1	89	0.00	0.0	3.980	0.051	2	1	1	1
PL.33497	PL.53905	A	#2 ACSR	7.28Y	121.3	0.00	3.66	2.27	1	16	4	97	0.00	0.0	3.952	0.023	16	4	2	2
PL.33791	PL.53905	A	#2 ACSR	7.28Y	121.3	0.00	3.66	1.28	1	9	2	98	0.00	0.0	3.989	0.060	0	0	0	1
PL.33792	PL.33791	A	#2 ACSR	7.28Y	121.3	0.00	3.66	1.28	1	9	2	98	0.00	0.0	4.024	0.034	9	2	1	1
PL.33208	PL.54369	A	#4 ACSR	7.28Y	121.4	0.00	3.64	1.42	1	10	3	96	0.00	0.0	3.847	0.026	10	3	1	1
PL.54370	PL.54368	A	#4 ACSR	7.28Y	121.4	0.00	3.64	2.38	2	17	5	96	0.00	0.0	3.853	0.045	7	2	1	2
PL.33790	PL.54370	A	#4 ACSR	7.28Y	121.4	0.00	3.64	1.45	1	10	3	96	0.00	0.0	3.930	0.077	10	3	1	1
PL.33262	PL.33776	ABC	#1/0 ACSR	7.28Y	121.4	0.03	3.65	39.19	17	826	226	96	0.18	0.0	3.806	0.043	0	0	0	135
PL.33644	PL.33262	ABC	#1/0 ACSR	7.28Y	121.3	0.00	3.65	39.19	17	826	226	96	0.00	0.0	3.807	0.000	0	0	0	135
RG.36	PL.33644	ABC	167Kkva	7.47Y	124.5	-3.11	0.54	39.19	18	826	226	96	percent Boost= 2.50 Tap= 4.0							135
PL.33128	RG.36	ABC	#1/0 ACSR	7.47Y	124.4	0.04	0.58	38.21	17	826	226	96	0.22	0.0	3.862	0.056	0	0	0	135
PL.33129	PL.33128	ABC	#1/0 ACSR	7.46Y	124.3	0.09	0.67	38.19	17	825	226	96	0.53	0.1	4.000	0.137	0	0	0	134

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.58404	PL.33129	B	6 A (CWC)	7.46Y	124.3	0.00	0.67	7.26	5	52	14	97	0.00	0.0	4.002	0.003	0	0	0	11
PD.8579	PL.58404	B	40T	7.46Y	124.3	0.00	0.67	7.26	0	52	14	97	0.00	0.0	4.002	0.003	0	0	0	11
PL.58405	PD.8579	B	6 A (CWC)	7.46Y	124.3	0.05	0.72	7.26	5	52	14	97	0.02	0.0	4.159	0.156	4	1	1	11
PL.58403	PL.58405	B	6 A (CWC)	7.45Y	124.2	0.03	0.75	6.65	5	48	13	97	0.01	0.0	4.255	0.096	0	0	0	10
PL.33794	PL.58403	B	6 A (CWC)	7.45Y	124.2	0.02	0.77	5.10	4	37	10	97	0.01	0.0	4.356	0.101	0	0	0	8
PL.33799	PL.33794	B	6 A (CWC)	7.45Y	124.2	0.01	0.79	3.13	2	23	6	97	0.00	0.0	4.439	0.083	4	1	2	6
PL.33506	PL.33799	B	6 A (CWC)	7.45Y	124.2	0.00	0.79	0.42	0	3	1	95	0.00	0.0	4.529	0.090	3	1	1	1
PL.33800	PL.33799	B	6 A (CWC)	7.45Y	124.2	0.02	0.80	2.12	2	15	4	97	0.00	0.0	4.615	0.176	0	0	0	3
PL.33290	PL.33800	B	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.00	0	0	0	100	0.00	0.0	4.655	0.040	0	0	1	1
PL.53919	PL.33800	B	6 A (CWC)	7.45Y	124.2	0.02	0.83	2.12	2	15	4	97	0.00	0.0	4.944	0.329	7	2	1	2
PL.53920	PL.53919	B	#1/0 ACSR	7.45Y	124.2	0.00	0.83	1.13	0	8	2	97	0.00	0.0	5.005	0.061	8	2	1	1
PL.33519	PL.33794	B	#1/0 ACSR	7.45Y	124.2	0.00	0.78	1.96	1	14	4	96	0.00	0.0	4.378	0.022	0	0	0	2
PL.33585	PL.33519	B	#1/0 ACSR	7.45Y	124.2	0.00	0.78	1.96	1	14	4	96	0.00	0.0	4.413	0.035	10	3	1	2
PL.33288	PL.33585	B	#1/0 ACSR	7.45Y	124.2	0.00	0.78	0.60	0	4	1	97	0.00	0.0	4.454	0.041	0	0	0	1
PL.53911	PL.33288	B	#1/0 ACSR	7.45Y	124.2	0.00	0.78	0.00	0	0	0	100	0.00	0.0	4.495	0.042	0	0	0	0
PL.33793	PL.33288	B	#1/0 ACSR	7.45Y	124.2	0.00	0.78	0.60	0	4	1	97	0.00	0.0	4.490	0.037	4	1	1	1
PL.33795	PL.58403	B	#1/0 ACSR	7.45Y	124.2	0.00	0.75	1.55	1	11	3	96	0.00	0.0	4.278	0.024	11	3	1	2
PL.33796	PL.33795	B	#1/0 ACSR	7.45Y	124.2	0.00	0.75	0.03	0	0	0	100	0.00	0.0	4.299	0.020	0	0	1	1
PL.53897	PL.33129	ABC	#1/0 ACSR	7.46Y	124.3	0.05	0.72	35.76	16	772	211	96	0.26	0.0	4.078	0.078	9	2	2	123
PL.53896	PL.53897	ABC	#1/0 ACSR	7.45Y	124.2	0.04	0.76	35.35	15	763	209	96	0.19	0.0	4.135	0.057	0	0	0	121
PL.53669	PL.53896	ABC	#1/0 ACSR	7.45Y	124.2	0.06	0.81	34.93	15	754	206	96	0.29	0.0	4.223	0.088	0	0	0	120
PL.33797	PL.53669	ABC	#1/0 ACSR	7.45Y	124.1	0.05	0.86	34.64	15	747	204	96	0.26	0.0	4.304	0.081	0	0	0	118
PL.33463	PL.33797	ABC	#1/0 ACSR	7.45Y	124.1	0.00	0.87	34.64	15	747	204	96	0.01	0.0	4.309	0.004	0	0	0	118
PL.53944	PL.33463	ABC	#1/0 ACSR	7.45Y	124.1	0.04	0.91	34.64	15	747	204	96	0.20	0.0	4.371	0.062	10	3	1	118
PL.53945	PL.53944	ABC	#1/0 ACSR	7.44Y	124.0	0.08	0.99	34.18	15	737	201	96	0.42	0.1	4.507	0.136	0	0	0	117
PL.33801	PL.53945	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	0.72	1	5	1	98	0.00	0.0	4.509	0.002	0	0	0	1
PD.4998	PL.33801	C	40QA	7.44Y	124.0	0.00	0.99	0.72	2	5	1	98	0.00	0.0	4.509	0.002	0	0	0	1
PL.33802	PD.4998	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	0.72	1	5	1	98	0.00	0.0	4.638	0.129	5	1	1	1
PL.33305	PL.53945	ABC	#1/0 ACSR	7.44Y	123.9	0.06	1.05	33.94	15	731	199	96	0.31	0.0	4.608	0.101	5	1	1	116
PL.33632	PL.33305	ABC	#1/0 ACSR	7.43Y	123.9	0.05	1.10	33.70	15	726	197	97	0.24	0.0	4.688	0.080	0	0	0	115
PL.33804	PL.33632	A	6 A (CWC)	7.43Y	123.9	0.00	1.10	20.72	15	149	40	97	0.00	0.0	4.691	0.003	0	0	0	21

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.5013	PL.33804	A	35L	7.43Y	123.9	0.00	1.10	20.72	59	149	40	97	0.00	0.0	4.691	0.003	0	0	0	21
PL.33138	PD.5013	A	6 A (CWC)	7.42Y	123.6	0.29	1.40	20.72	15	149	40	97	0.32	0.2	5.002	0.311	0	0	0	21
PL.33206	PL.33138	A	#2 ACSR	7.42Y	123.6	0.00	1.40	1.06	1	8	2	97	0.00	0.0	5.059	0.057	8	2	1	1
PL.33139	PL.33138	A	6 A (CWC)	7.41Y	123.5	0.06	1.45	19.67	14	141	38	97	0.06	0.0	5.065	0.063	8	2	1	20
PL.33140	PL.33139	A	6 A (CWC)	7.41Y	123.4	0.12	1.57	9.25	7	66	18	96	0.06	0.1	5.353	0.288	0	0	0	11
PL.33627	PL.33140	A	6 A (CWC)	7.40Y	123.4	0.02	1.59	3.24	2	23	6	97	0.00	0.0	5.470	0.116	0	0	0	4
PL.33207	PL.33627	A	#4 ACSR	7.40Y	123.4	0.00	1.59	1.18	1	8	2	97	0.00	0.0	5.514	0.044	8	2	1	1
PL.59090	PL.33627	A	6 A (CWC)	7.40Y	123.4	0.01	1.60	2.07	1	15	4	97	0.00	0.0	5.565	0.095	0	0	0	3
PL.59092	PL.59090	A	6 A (CWC)	7.40Y	123.4	0.01	1.61	1.49	1	11	3	96	0.00	0.0	5.720	0.155	7	2	1	2
PL.59093	PL.59092	A	6 A (CWC)	7.40Y	123.4	0.00	1.61	0.52	0	4	1	97	0.00	0.0	5.753	0.034	4	1	1	1
PL.59091	PL.59090	A	#1/0 ACSR	7.40Y	123.4	0.00	1.60	0.58	0	4	1	97	0.00	0.0	5.605	0.040	0	0	0	1
PL.53800	PL.59091	A	#1/0 ACSR	7.40Y	123.4	0.00	1.60	0.58	0	4	1	97	0.00	0.0	5.641	0.036	4	1	1	1
PL.33836	PL.33140	A	6 A (CWC)	7.40Y	123.4	0.02	1.59	6.00	4	43	12	96	0.01	0.0	5.411	0.057	0	0	0	7
PL.33837	PL.33836	A	#4 ACSR	7.40Y	123.4	0.00	1.59	1.29	1	9	2	98	0.00	0.0	5.487	0.076	5	1	1	2
PL.33626	PL.33837	A	#4 ACSR	7.40Y	123.4	0.00	1.59	0.60	0	4	1	97	0.00	0.0	5.540	0.053	4	1	1	1
PL.33539	PL.33836	A	6 A (CWC)	7.40Y	123.4	0.02	1.61	4.72	3	34	9	97	0.01	0.0	5.511	0.100	0	0	1	5
PL.66220	PL.33539	A	6 A (CWC)	7.40Y	123.4	0.01	1.62	4.72	3	34	9	97	0.00	0.0	5.578	0.067	12	3	1	4
PL.66219	PL.66220	A	6 A (CWC)	7.40Y	123.4	0.01	1.63	2.98	2	21	6	96	0.00	0.0	5.622	0.045	0	0	0	3
PL.64862	PL.66219	A	6 A (CWC)	7.40Y	123.4	0.00	1.63	0.00	0	0	0	100	0.00	0.0	5.681	0.059	0	0	0	0
PL.33431	PL.66219	A	6 A (CWC)	7.40Y	123.4	0.01	1.64	2.98	2	21	6	96	0.00	0.0	5.723	0.100	0	0	0	3
PL.33253	PL.33431	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	1.38	1	10	3	96	0.00	0.0	5.770	0.048	10	3	1	1
PL.62747	PL.33431	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	0.06	0	0	0	100	0.00	0.0	5.823	0.100	0	0	0	1
PL.62748	PL.62747	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	6.117	0.294	0	0	0	0
PL.33432	PL.62748	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	6.258	0.141	0	0	0	0
PL.33491	PL.33432	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	6.618	0.361	0	0	0	0
PL.33492	PL.33491	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	6.729	0.111	0	0	0	0
PL.64863	PL.62748	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	6.318	0.202	0	0	0	0
PL.62749	PL.62747	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	0.06	0	0	0	100	0.00	0.0	5.894	0.071	0	0	1	1
PL.33622	PL.33431	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	1.54	1	11	3	96	0.00	0.0	5.798	0.075	11	3	1	1
PL.33623	PL.33622	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	5.831	0.033	0	0	0	0
PL.64752	PL.33623	A	#1/0 ACSR	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	5.861	0.030	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.64753	PL.64752	A	#1/0 ACSR	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	5.922	0.061	0	0	0	0
PL.33834	PL.33139	A	6 A (CWC)	7.41Y	123.5	0.01	1.46	4.61	3	33	9	96	0.00	0.0	5.126	0.061	0	0	0	4
PL.53894	PL.33834	A	#2 ACSR	7.41Y	123.5	0.00	1.47	3.63	2	26	7	97	0.00	0.0	5.154	0.028	12	3	1	3
PL.53895	PL.53894	A	#2 ACSR	7.41Y	123.5	0.00	1.47	1.98	1	14	4	96	0.00	0.0	5.192	0.038	8	2	1	2
PL.53810	PL.53895	A	#2 ACSR	7.41Y	123.5	0.00	1.47	0.93	1	7	2	96	0.00	0.0	5.226	0.034	7	2	1	1
PL.33143	PL.33834	A	#4 ACSR	7.41Y	123.5	0.00	1.46	0.99	1	7	2	96	0.00	0.0	5.144	0.018	7	2	1	1
PL.33835	PL.33139	A	6 A (CWC)	7.41Y	123.5	0.01	1.47	4.67	3	33	9	96	0.00	0.0	5.150	0.084	11	3	1	4
PL.33306	PL.33835	A	6 A (CWC)	7.41Y	123.5	0.02	1.48	3.07	2	22	6	96	0.00	0.0	5.289	0.139	10	3	1	3
PL.33307	PL.33306	A	6 A (CWC)	7.41Y	123.5	0.01	1.49	1.69	1	12	3	97	0.00	0.0	5.438	0.149	6	2	1	2
PL.33310	PL.33307	A	6 A (CWC)	7.41Y	123.5	0.00	1.49	0.83	1	6	2	95	0.00	0.0	5.473	0.036	6	2	1	1
PL.61245	PL.33632	ABC	#1/0 ACSR	7.43Y	123.9	0.04	1.14	24.93	11	537	146	96	0.16	0.0	4.785	0.097	0	0	1	90
PL.61246	PL.61245	ABC	#1/0 ACSR	7.43Y	123.8	0.04	1.18	24.93	11	536	146	96	0.14	0.0	4.869	0.083	0	0	0	89
PL.63966	PL.61246	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.18	24.26	11	522	142	96	0.00	0.0	4.869	0.000	8	2	1	87
PL.63967	PL.63966	ABC	#1/0 ACSR	7.43Y	123.8	0.05	1.23	23.90	10	514	140	96	0.18	0.0	4.988	0.119	12	3	3	86
PL.33540	PL.63967	C	#4 ACSR	7.43Y	123.8	0.00	1.23	1.09	1	8	2	97	0.00	0.0	4.988	0.001	0	0	0	1
PD.4897	PL.33540	C	40QA	7.43Y	123.8	0.00	1.23	1.09	3	8	2	97	0.00	0.0	4.988	0.001	0	0	0	1
PL.33541	PD.4897	C	#4 ACSR	7.43Y	123.8	0.00	1.23	1.09	1	8	2	97	0.00	0.0	5.066	0.078	8	2	1	1
PL.59086	PL.63967	ABC	#1/0 ACSR	7.42Y	123.7	0.05	1.28	22.99	10	494	134	97	0.18	0.0	5.114	0.126	0	0	0	82
PL.59087	PL.59086	ABC	#1/0 ACSR	7.42Y	123.7	0.03	1.31	22.99	10	494	134	97	0.09	0.0	5.180	0.066	0	0	0	82
PL.59085	PL.59087	C	6 A (CWC)	7.42Y	123.7	0.00	1.31	0.26	0	2	1	89	0.00	0.0	5.181	0.001	0	0	0	1
PD.4986	PL.59085	C	40QA	7.42Y	123.7	0.00	1.31	0.26	1	2	1	89	0.00	0.0	5.181	0.001	0	0	0	1
PL.33883	PD.4986	C	6 A (CWC)	7.42Y	123.7	0.00	1.31	0.26	0	2	1	89	0.00	0.0	5.267	0.086	2	1	1	1
PL.62743	PL.59087	ABC	#1/0 ACSR	7.42Y	123.6	0.07	1.38	22.90	10	492	133	97	0.24	0.0	5.354	0.174	0	0	0	81
PL.33881	PL.62743	ABC	#1/0 ACSR	7.42Y	123.6	0.03	1.41	22.90	10	492	133	97	0.11	0.0	5.429	0.075	0	0	0	81
PL.33879	PL.33881	A	6 A (CWC)	7.42Y	123.6	0.00	1.41	22.88	16	164	44	97	0.00	0.0	5.430	0.001	0	0	0	26
PD.4999	PL.33879	A	40QA	7.42Y	123.6	0.00	1.41	22.88	57	164	44	97	0.00	0.0	5.430	0.001	0	0	0	26
PL.53876	PD.4999	A	6 A (CWC)	7.41Y	123.4	0.15	1.57	22.88	16	164	44	97	0.18	0.1	5.580	0.150	9	2	2	26
PL.62744	PL.53876	A	#2 ACSR	7.41Y	123.4	0.00	1.57	1.48	1	11	3	96	0.00	0.0	5.601	0.020	11	3	1	1
PL.62745	PL.62744	A	#2 ACSR	7.41Y	123.4	0.00	1.57	0.00	0	0	0	100	0.00	0.0	5.619	0.018	0	0	0	0
PL.53872	PL.53876	A	6 A (CWC)	7.40Y	123.4	0.02	1.58	8.40	6	60	16	97	0.01	0.0	5.633	0.053	17	5	3	8
PL.53874	PL.53872	A	#4 ACSR	7.40Y	123.4	0.00	1.59	3.54	3	25	7	96	0.00	0.0	5.682	0.049	25	7	3	3

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.53873	PL.53872	A	6 A (CWC)	7.40Y	123.4	0.00	1.59	2.43	2	17	5	96	0.00	0.0	5.701	0.068	17	5	2	2
PL.53875	PL.53876	A	6 A (CWC)	7.41Y	123.4	0.01	1.57	11.74	8	84	23	96	0.01	0.0	5.595	0.015	0	0	0	15
PL.53900	PL.53875	A	6 A (CWC)	7.40Y	123.4	0.05	1.62	11.74	8	84	23	96	0.03	0.0	5.682	0.087	0	0	0	15
PL.53883	PL.53900	A	#4 ACSR	7.40Y	123.4	0.03	1.65	8.15	6	58	16	96	0.01	0.0	5.776	0.094	20	5	5	10
PL.53884	PL.53883	A	#4 ACSR	7.40Y	123.4	0.00	1.65	0.00	0	0	0	100	0.00	0.0	5.818	0.042	0	0	0	0
PL.53882	PL.53883	A	#4 ACSR	7.40Y	123.3	0.00	1.65	3.31	3	24	6	97	0.00	0.0	5.834	0.058	24	6	2	2
PL.53885	PL.53883	A	#4 ACSR	7.40Y	123.3	0.00	1.65	2.05	2	15	4	97	0.00	0.0	5.814	0.038	8	2	1	3
PL.33882	PL.53885	A	#4 ACSR	7.40Y	123.3	0.00	1.65	0.93	1	7	2	96	0.00	0.0	5.929	0.115	7	2	2	2
PL.33283	PL.53900	A	6 A (CWC)	7.40Y	123.4	0.00	1.62	3.58	3	26	7	97	0.00	0.0	5.697	0.015	7	2	3	5
PL.33225	PL.33283	A	6 A (CWC)	7.40Y	123.4	0.00	1.63	2.57	2	18	5	96	0.00	0.0	5.739	0.042	11	3	1	2
PL.53901	PL.33225	A	6 A (CWC)	7.40Y	123.4	0.00	1.63	0.97	1	7	2	96	0.00	0.0	5.809	0.070	7	2	1	1
PL.33880	PL.33881	C	6 A (CWC)	7.42Y	123.6	0.00	1.41	4.48	3	32	9	96	0.00	0.0	5.429	0.001	0	0	0	5
PD.4940	PL.33880	C	40QA	7.42Y	123.6	0.00	1.41	4.48	11	32	9	96	0.00	0.0	5.429	0.001	0	0	0	5
PL.33114	PD.4940	C	6 A (CWC)	7.41Y	123.5	0.05	1.46	4.48	3	32	9	96	0.01	0.0	5.664	0.234	2	1	2	5
PL.33115	PL.33114	C	6 A (CWC)	7.41Y	123.5	0.01	1.47	4.21	3	30	8	97	0.00	0.0	5.746	0.082	30	8	3	3
PL.61689	PL.33881	ABC	#1/0 ACSR	7.41Y	123.6	0.03	1.44	13.78	6	296	80	97	0.05	0.0	5.530	0.101	0	0	0	50
PL.61691	PL.61689	A	#1/0 ACSR	7.41Y	123.6	0.00	1.44	2.67	1	19	5	97	0.00	0.0	5.532	0.002	0	0	0	3
PD.9151	PL.61691	A	40QA	7.41Y	123.6	0.00	1.44	2.67	7	19	5	97	0.00	0.0	5.532	0.002	0	0	0	3
PL.61688	PD.9151	A	#1/0 ACSR	7.41Y	123.6	0.00	1.44	2.67	1	19	5	97	0.00	0.0	5.554	0.022	0	0	0	3
PL.61242	PL.61688	A	#1/0 ACSR	7.41Y	123.6	0.00	1.44	2.57	1	18	5	96	0.00	0.0	5.574	0.021	18	5	2	2
PL.61243	PL.61688	A	#1/0 ACSR	7.41Y	123.6	0.00	1.44	0.10	0	1	0	100	0.00	0.0	5.600	0.047	1	0	1	1
PL.61690	PL.61689	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.45	12.89	6	277	75	97	0.02	0.0	5.583	0.053	0	0	1	47
PL.55178	PL.61690	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.46	12.87	6	276	75	97	0.02	0.0	5.625	0.042	0	0	0	46
PL.55177	PL.55178	C	#4 ACSR	7.41Y	123.5	0.00	1.46	2.79	2	20	5	97	0.00	0.0	5.626	0.001	0	0	0	2
PD.5008	PL.55177	C	40QA	7.41Y	123.5	0.00	1.46	2.79	7	20	5	97	0.00	0.0	5.626	0.001	0	0	0	2
PL.34188	PD.5008	C	#4 ACSR	7.41Y	123.5	0.00	1.46	2.79	2	20	5	97	0.00	0.0	5.660	0.034	20	5	2	2
PL.55176	PL.55178	ABC	#1/0 ACSR	7.41Y	123.5	0.02	1.48	11.94	5	256	69	97	0.04	0.0	5.721	0.096	3	1	1	44
PL.53881	PL.55176	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.49	11.51	5	247	67	97	0.01	0.0	5.749	0.028	5	1	1	42
PL.53879	PL.53881	B	6 A (CWC)	7.41Y	123.4	0.08	1.57	21.37	15	153	41	97	0.09	0.1	5.833	0.083	0	0	0	26
PD.7916	PL.53879	B	25T	7.41Y	123.4	0.00	1.57	21.37	0	153	41	97	0.00	0.0	5.833	0.083	0	0	0	26
PL.53951	PD.7916	B	6 A (CWC)	7.41Y	123.4	0.00	1.57	21.37	15	153	41	97	0.00	0.0	5.835	0.002	0	0	0	26

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.53671	PL.53951	B	#4 ACSR	7.41Y	123.4	0.00	1.57	1.62	1	12	3	97	0.00	0.0	5.916	0.081	12	3	1	1
PL.53952	PL.53951	B	#1/0 ACSR	7.41Y	123.4	0.00	1.57	1.77	1	13	3	97	0.00	0.0	5.863	0.028	0	0	1	2
PL.53801	PL.53952	B	#1/0 ACSR	7.41Y	123.4	0.00	1.57	1.77	1	13	3	97	0.00	0.0	5.917	0.054	13	3	1	1
PL.53672	PL.53951	B	6 A (CWC)	7.40Y	123.3	0.08	1.65	17.98	13	129	35	97	0.08	0.1	5.937	0.102	9	2	1	23
PL.33252	PL.53672	B	#2 ACSR	7.40Y	123.3	0.00	1.65	0.91	1	6	2	95	0.00	0.0	6.010	0.073	6	2	1	1
PL.33461	PL.53672	B	6 A (CWC)	7.40Y	123.3	0.00	1.65	1.99	1	14	4	96	0.00	0.0	5.987	0.050	14	4	2	2
PL.53903	PL.53672	B	6 A (CWC)	7.40Y	123.3	0.03	1.68	13.82	10	99	27	96	0.02	0.0	5.990	0.054	0	0	0	19
PL.53904	PL.53903	B	6 A (CWC)	7.40Y	123.3	0.02	1.70	13.82	10	99	27	96	0.01	0.0	6.016	0.026	0	0	0	19
PL.33453	PL.53904	B	6 A (CWC)	7.40Y	123.3	0.03	1.73	3.87	3	28	7	97	0.01	0.0	6.173	0.156	0	0	0	4
PL.33454	PL.33453	B	6 A (CWC)	7.40Y	123.3	0.01	1.74	3.87	3	28	7	97	0.00	0.0	6.250	0.077	0	0	0	4
PL.33429	PL.33454	B	6 A (CWC)	7.40Y	123.3	0.00	1.74	1.27	1	9	2	98	0.00	0.0	6.280	0.030	7	2	1	2
PL.66218	PL.33429	B	#1/0 ACSR	7.40Y	123.3	0.00	1.74	0.34	0	2	1	89	0.00	0.0	6.311	0.031	2	1	1	1
PL.33249	PL.33454	B	6 A (CWC)	7.39Y	123.2	0.01	1.75	2.60	2	19	5	97	0.00	0.0	6.320	0.069	0	0	0	2
PL.72956	PL.33249	B	6 A (CWC)	7.39Y	123.2	0.00	1.75	1.31	1	9	3	95	0.00	0.0	6.373	0.053	0	0	0	1
PL.72957	PL.72956	B	6 A (CWC)	7.39Y	123.2	0.00	1.75	1.31	1	9	3	95	0.00	0.0	6.373	0.000	9	3	1	1
PL.72958	PL.72957	B	#1/0 ACSR	7.39Y	123.2	0.00	1.75	0.00	0	0	0	100	0.00	0.0	6.407	0.034	0	0	0	0
PL.72959	PL.72958	B	#1/0 ACSR	7.39Y	123.2	0.00	1.75	0.00	0	0	0	100	0.00	0.0	6.474	0.067	0	0	0	0
PL.33449	PL.33249	B	#4 ACSR	7.39Y	123.2	0.00	1.75	1.29	1	9	2	98	0.00	0.0	6.370	0.050	9	2	1	1
PL.34206	PL.53904	B	#4 ACSR	7.40Y	123.3	0.02	1.72	9.95	8	71	19	97	0.01	0.0	6.062	0.046	6	2	1	15
PL.33112	PL.34206	B	#4 ACSR	7.39Y	123.2	0.03	1.75	9.09	7	65	18	96	0.02	0.0	6.140	0.078	0	0	1	14
PL.33452	PL.33112	B	6 A (CWC)	7.39Y	123.2	0.01	1.76	6.00	4	43	12	96	0.00	0.0	6.172	0.032	0	0	0	7
PL.33482	PL.33452	B	6 A (CWC)	7.39Y	123.2	0.01	1.77	4.88	3	35	9	97	0.00	0.0	6.211	0.039	5	1	1	5
PL.33118	PL.33482	B	6 A (CWC)	7.39Y	123.2	0.02	1.79	4.17	3	30	8	97	0.01	0.0	6.342	0.130	0	0	0	4
PL.33119	PL.33118	B	6 A (CWC)	7.39Y	123.2	0.00	1.80	3.20	2	23	6	97	0.00	0.0	6.355	0.014	10	3	1	3
PL.33247	PL.33119	B	6 A (CWC)	7.39Y	123.2	0.00	1.80	1.78	1	13	3	97	0.00	0.0	6.472	0.117	12	3	1	2
PL.33248	PL.33247	B	6 A (CWC)	7.39Y	123.2	0.00	1.80	0.04	0	0	0	100	0.00	0.0	6.504	0.032	0	0	1	1
PL.53909	PL.33118	B	#4 ACSR	7.39Y	123.2	0.01	1.80	0.97	1	7	2	96	0.00	0.0	6.657	0.316	7	2	1	1
PL.53910	PL.53909	B	#1/0 ACSR	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	6.702	0.044	0	0	0	0
PL.33116	PL.33452	B	#4 ACSR	7.39Y	123.2	0.00	1.76	1.12	1	8	2	97	0.00	0.0	6.241	0.069	8	2	1	2
PL.33117	PL.33116	B	#4 ACSR	7.39Y	123.2	0.00	1.76	0.00	0	0	0	100	0.00	0.0	6.260	0.019	0	0	1	1
PL.59075	PL.33112	B	#4 ACSR	7.39Y	123.2	0.00	1.75	3.08	2	22	6	96	0.00	0.0	6.154	0.014	2	0	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.59076	PL.59075	B	#4 ACSR	7.39Y	123.2	0.00	1.76	2.16	2	15	4	97	0.00	0.0	6.175	0.021	7	2	1	3
PL.57894	PL.59076	B	#4 ACSR	7.39Y	123.2	0.00	1.76	0.59	0	4	1	97	0.00	0.0	6.221	0.046	4	1	1	1
PL.57893	PL.59076	B	#4 ACSR	7.39Y	123.2	0.00	1.76	0.63	0	5	1	98	0.00	0.0	6.356	0.181	5	1	1	1
PL.59074	PL.59075	B	#4 ACSR	7.39Y	123.2	0.00	1.75	0.71	1	5	1	98	0.00	0.0	6.204	0.050	4	1	1	2
PL.33277	PL.59074	B	#4 ACSR	7.39Y	123.2	0.00	1.75	0.18	0	1	0	100	0.00	0.0	6.225	0.021	1	0	1	1
PL.53880	PL.53881	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.49	4.14	2	89	24	97	0.00	0.0	5.824	0.075	18	5	4	15
PL.53902	PL.53880	ABC	#1/0 ACSR	7.41Y	123.5	0.00	1.49	3.31	1	71	19	97	0.00	0.0	5.879	0.055	0	0	0	11
PL.33483	PL.53902	A	#2 ACSR	7.41Y	123.5	0.00	1.50	1.67	1	12	3	97	0.00	0.0	5.898	0.019	12	3	4	4
PL.34187	PL.53902	ABC	#1/0 ACSR	7.41Y	123.5	0.00	1.50	2.42	1	52	14	97	0.00	0.0	5.952	0.073	13	4	2	6
PL.34186	PL.34187	ABC	#1/0 ACSR	7.41Y	123.5	0.00	1.50	1.79	1	39	10	97	0.00	0.0	6.016	0.064	39	10	4	4
PL.58877	PL.34186	ABC	#1/0 ACSR	7.41Y	123.5	0.00	1.50	0.00	0	0	0	100	0.00	0.0	6.078	0.063	0	0	0	0
PD.8482-A	PL.58877	ABC	Open	7.41Y	123.5	0.00	1.50	0.00	0	0	0	100	0.00	0.0	6.078	0.063	0	0	0	0
PL.53907	PL.53902	A	#2 ACSR	7.41Y	123.5	0.00	1.49	1.02	1	7	2	96	0.00	0.0	5.901	0.022	7	2	1	1
PL.53887	PL.55176	A	#1/0 ACSR	7.41Y	123.5	0.00	1.48	0.93	0	7	2	96	0.00	0.0	5.724	0.003	0	0	0	1
PD.7930	PL.53887	A	10QA	7.41Y	123.5	0.00	1.48	0.93	0	7	2	96	0.00	0.0	5.724	0.003	0	0	0	1
PL.53889	PD.7930	A	#1/0 ACSR	7.41Y	123.5	0.00	1.48	0.93	0	7	2	96	0.00	0.0	5.732	0.009	0	0	0	1
PL.53888	PL.53889	A	#1/0 ACSR	7.41Y	123.5	0.00	1.48	0.93	0	7	2	96	0.00	0.0	5.763	0.031	7	2	1	1
PL.61244	PL.61246	A	#4 ACSR	7.43Y	123.8	0.00	1.18	2.00	2	14	4	96	0.00	0.0	4.870	0.001	0	0	0	2
PD.5001	PL.61244	A	12T	7.43Y	123.8	0.00	1.18	2.00	0	14	4	96	0.00	0.0	4.870	0.001	0	0	0	2
PL.33113	PD.5001	A	#4 ACSR	7.43Y	123.8	0.00	1.18	2.00	2	14	4	96	0.00	0.0	4.915	0.046	14	4	2	2
PL.33803	PL.33632	A	#2 ACSR	7.43Y	123.9	0.00	1.10	5.59	3	40	11	96	0.00	0.0	4.691	0.003	0	0	0	4
PD.4937	PL.33803	A	20T	7.43Y	123.9	0.00	1.10	5.59	0	40	11	96	0.00	0.0	4.691	0.003	0	0	0	4
PL.53946	PD.4937	A	#2 ACSR	7.43Y	123.9	0.01	1.11	5.59	3	40	11	96	0.00	0.0	4.727	0.036	0	0	0	4
PL.72960	PL.53946	A	#1/0 ACSR	7.43Y	123.9	0.01	1.11	5.59	2	40	11	96	0.00	0.0	4.792	0.065	0	0	0	4
PL.72961	PL.72960	A	#1/0 ACSR	7.43Y	123.9	0.01	1.12	5.59	2	40	11	96	0.00	0.0	4.842	0.051	0	0	0	4
PL.62768	PL.72961	A	#1/0 ACSR	7.43Y	123.9	0.01	1.13	3.18	1	23	6	97	0.00	0.0	4.979	0.137	18	5	1	2
PL.53825	PL.62768	A	#1/0 ACSR	7.43Y	123.9	0.00	1.13	0.71	0	5	1	98	0.00	0.0	5.040	0.061	5	1	1	1
PL.62769	PL.72961	A	#1/0 ACSR	7.43Y	123.9	0.00	1.12	2.41	1	17	5	96	0.00	0.0	4.907	0.065	0	0	0	2
PL.62770	PL.62769	A	#1/0 ACSR	7.43Y	123.9	0.00	1.13	2.41	1	17	5	96	0.00	0.0	4.986	0.079	10	3	1	2
PL.62771	PL.62770	A	#1/0 ACSR	7.43Y	123.9	0.00	1.13	1.03	0	7	2	96	0.00	0.0	5.054	0.068	7	2	1	1
CP.50	PL.33463	ABC	Cap (300)	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	4.309	0.068	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33798	PL.53669	A	#1/0 ACSR	7.45Y	124.2	0.00	0.81	0.87	0	6	2	95	0.00	0.0	4.228	0.004	0	0	0	2
PD.4985	PL.33798	A	10QA	7.45Y	124.2	0.00	0.81	0.87	0	6	2	95	0.00	0.0	4.228	0.004	0	0	0	2
PL.53802	PD.4985	A	#1/0 ACSR	7.45Y	124.2	0.00	0.82	0.87	0	6	2	95	0.00	0.0	4.339	0.112	0	0	1	2
PL.53803	PL.53802	A	#1/0 ACSR	7.45Y	124.2	0.00	0.82	0.87	0	6	2	95	0.00	0.0	4.464	0.124	6	2	1	1
PL.53670	PL.53896	C	#1/0 ACSR	7.45Y	124.2	0.00	0.76	1.24	1	9	2	98	0.00	0.0	4.139	0.004	0	0	0	1
PD.8112	PL.53670	C	20QA	7.45Y	124.2	0.00	0.76	1.24	6	9	2	98	0.00	0.0	4.139	0.004	0	0	0	1
PL.53824	PD.8112	C	#1/0 ACSR	7.45Y	124.2	0.00	0.76	1.24	1	9	2	98	0.00	0.0	4.185	0.047	9	2	1	1
PL.33130	PL.33128	C	6 A (CWC)	7.47Y	124.4	0.00	0.58	0.08	0	1	0	100	0.00	0.0	3.864	0.002	0	0	0	1
PD.4938	PL.33130	C	40QA	7.47Y	124.4	0.00	0.58	0.08	0	1	0	100	0.00	0.0	3.864	0.002	0	0	0	1
PL.33131	PD.4938	C	6 A (CWC)	7.47Y	124.4	0.00	0.58	0.08	0	1	0	100	0.00	0.0	3.969	0.105	1	0	1	1
PL.33133	PL.33774	A	#4 ACSR	7.31Y	121.9	0.00	3.13	1.95	2	14	4	96	0.00	0.0	3.161	0.003	0	0	0	2
PD.4997	PL.33133	A	40QA	7.31Y	121.9	0.00	3.13	1.95	5	14	4	96	0.00	0.0	3.161	0.003	0	0	0	2
PL.33134	PD.4997	A	#4 ACSR	7.31Y	121.9	0.00	3.13	1.95	2	14	4	96	0.00	0.0	3.184	0.023	9	2	1	2
PL.33778	PL.33134	A	#4 ACSR	7.31Y	121.9	0.00	3.13	0.65	1	5	1	98	0.00	0.0	3.260	0.076	5	1	1	1
PL.33775	PL.33610	C	6 A (CWC)	7.32Y	121.9	0.00	3.05	11.49	8	81	22	97	0.00	0.0	3.068	0.001	0	0	0	10
PD.4905	PL.33775	C	40QA	7.32Y	121.9	0.00	3.05	11.49	29	81	22	97	0.00	0.0	3.068	0.001	0	0	0	10
PL.33777	PD.4905	C	6 A (CWC)	7.32Y	121.9	0.01	3.07	11.49	8	81	22	97	0.01	0.0	3.098	0.030	19	5	2	10
PL.33781	PL.33777	C	6 A (CWC)	7.31Y	121.9	0.04	3.11	8.82	6	62	17	96	0.02	0.0	3.203	0.105	8	2	1	8
PL.33782	PL.33781	C	6 A (CWC)	7.31Y	121.9	0.02	3.12	6.75	5	48	13	97	0.01	0.0	3.252	0.049	0	0	0	6
PL.33499	PL.33782	C	6 A (CWC)	7.31Y	121.9	0.00	3.13	1.07	1	8	2	97	0.00	0.0	3.355	0.102	8	2	2	2
PL.53807	PL.33782	C	6 A (CWC)	7.31Y	121.9	0.02	3.14	5.69	4	40	11	96	0.01	0.0	3.345	0.093	10	3	1	4
PL.53808	PL.53807	C	6 A (CWC)	7.31Y	121.8	0.02	3.17	3.09	2	22	6	96	0.00	0.0	3.531	0.185	7	2	1	2
PL.34395	PL.53808	C	6 A (CWC)	7.31Y	121.8	0.00	3.17	2.04	1	14	4	96	0.00	0.0	3.577	0.046	14	4	1	1
PL.53809	PL.53807	C	#1/0 ACSR	7.31Y	121.9	0.00	3.15	1.21	1	9	2	98	0.00	0.0	3.494	0.149	9	2	1	1
PL.64854	PL.33781	C	6 A (CWC)	7.31Y	121.9	0.00	3.11	0.87	1	6	2	95	0.00	0.0	3.353	0.150	6	2	1	1
PL.33611	PL.33609	A	#4 ACSR	7.32Y	122.0	0.00	3.01	0.61	0	4	1	97	0.00	0.0	3.025	0.001	0	0	0	2
PD.4904	PL.33611	A	40QA	7.32Y	122.0	0.00	3.01	0.61	2	4	1	97	0.00	0.0	3.025	0.001	0	0	0	2
PL.64339	PD.4904	A	#4 ACSR	7.32Y	122.0	0.00	3.02	0.61	0	4	1	97	0.00	0.0	3.062	0.037	0	0	0	2
PL.64340	PL.64339	A	#4 ACSR	7.32Y	122.0	0.00	3.02	0.41	0	3	1	95	0.00	0.0	3.103	0.041	3	1	1	1
PL.64341	PL.64339	A	#2 ACSR	7.32Y	122.0	0.00	3.02	0.20	0	1	0	100	0.00	0.0	3.098	0.036	0	0	0	1
PL.64342	PL.64341	A	#1/0 ACSR	7.32Y	122.0	0.00	3.02	0.20	0	1	0	100	0.00	0.0	3.133	0.035	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33772	PL.53918	A	#4 ACSR	7.32Y	122.1	0.00	2.93	0.61	0	4	1	97	0.00	0.0	2.938	0.001	0	0	0	2
PD.4901	PL.33772	A	40QA	7.32Y	122.1	0.00	2.93	0.61	2	4	1	97	0.00	0.0	2.938	0.001	0	0	0	2
PL.33773	PD.4901	A	#4 ACSR	7.32Y	122.1	0.00	2.94	0.61	0	4	1	97	0.00	0.0	3.003	0.065	4	1	2	2
PL.33771	PL.53821	A	6 A (CWC)	7.34Y	122.4	0.00	2.65	0.64	0	5	1	98	0.00	0.0	2.629	0.001	0	0	0	1
PD.4903	PL.33771	A	40QA	7.34Y	122.4	0.00	2.65	0.64	2	5	1	98	0.00	0.0	2.629	0.001	0	0	0	1
PL.53823	PD.4903	A	6 A (CWC)	7.34Y	122.4	0.00	2.65	0.64	0	5	1	98	0.00	0.0	2.705	0.077	5	1	1	1
PL.53822	PL.53820	C	#1/0 ACSR	7.35Y	122.6	0.00	2.44	2.01	1	14	4	96	0.00	0.0	2.421	0.015	14	4	1	1
PL.61196	PL.33538	C	#1/0 ACSR	7.38Y	123.0	0.00	1.99	1.39	1	10	3	96	0.00	0.0	1.939	0.003	0	0	0	1
PD.9103	PL.61196	C	15T	7.38Y	123.0	0.00	1.99	1.39	0	10	3	96	0.00	0.0	1.939	0.003	0	0	0	1
PL.61197	PD.9103	C	#1/0 ACSR	7.38Y	123.0	0.00	1.99	1.39	1	10	3	96	0.00	0.0	1.981	0.041	10	3	1	1
PL.33686	PL.33538	C	6 A (CWC)	7.38Y	123.0	0.00	1.99	1.91	1	14	4	96	0.00	0.0	1.991	0.055	10	3	1	2
PL.33769	PL.33686	C	6 A (CWC)	7.38Y	123.0	0.00	1.99	0.54	0	4	1	97	0.00	0.0	2.081	0.090	4	1	1	1
PL.33507	PL.55071	C	6 A (CWC)	7.39Y	123.2	0.00	1.82	9.98	7	71	19	97	0.00	0.0	1.768	0.001	0	0	0	9
PD.4902	PL.33507	C	40QA	7.39Y	123.2	0.00	1.82	9.98	25	71	19	97	0.00	0.0	1.768	0.001	0	0	0	9
PL.55069	PD.4902	C	6 A (CWC)	7.39Y	123.2	0.02	1.84	9.98	7	71	19	97	0.01	0.0	1.817	0.049	11	3	1	9
PL.55379	PL.55069	C	#1/0 ACSR	7.39Y	123.2	0.00	1.84	8.43	4	60	16	97	0.00	0.0	1.825	0.008	8	2	1	8
PL.55380	PL.55379	C	#1/0 ACSR	7.39Y	123.1	0.02	1.86	7.33	3	52	14	97	0.01	0.0	1.944	0.119	9	2	1	7
PL.55381	PL.55380	C	#1/0 ACSR	7.39Y	123.1	0.00	1.86	1.28	1	9	2	98	0.00	0.0	2.033	0.089	9	2	1	1
PL.55382	PL.55380	C	#1/0 ACSR	7.39Y	123.1	0.00	1.86	4.83	2	34	9	97	0.00	0.0	1.980	0.036	8	2	1	5
PL.55383	PL.55382	C	#1/0 ACSR	7.39Y	123.1	0.01	1.87	3.65	2	26	7	97	0.00	0.0	2.064	0.084	13	4	2	4
PL.57164	PL.55383	C	#1/0 ACSR	7.39Y	123.1	0.00	1.87	0.91	0	6	2	95	0.00	0.0	2.156	0.092	6	2	1	1
PL.54808	PL.55383	C	#1/0 ACSR	7.39Y	123.1	0.00	1.87	0.89	0	6	2	95	0.00	0.0	2.098	0.034	6	2	1	1
PL.33188	PL.54795	C	6 A (CWC)	7.40Y	123.3	0.00	1.73	0.68	0	5	1	98	0.00	0.0	1.687	0.004	0	0	0	2
PD.4935	PL.33188	C	40QA	7.40Y	123.3	0.00	1.73	0.68	2	5	1	98	0.00	0.0	1.687	0.004	0	0	0	2
PL.33246	PD.4935	C	6 A (CWC)	7.40Y	123.3	0.00	1.73	0.68	0	5	1	98	0.00	0.0	1.804	0.116	5	1	2	2
PL.54798	PL.54797	C	6 A (CWC)	7.41Y	123.5	0.00	1.45	2.01	1	14	4	96	0.00	0.0	1.435	0.004	0	0	0	3
PD.8172	PL.54798	C	40QA	7.41Y	123.5	0.00	1.45	2.01	5	14	4	96	0.00	0.0	1.435	0.004	0	0	0	3
PL.54799	PD.8172	C	6 A (CWC)	7.41Y	123.5	0.01	1.46	2.01	1	14	4	96	0.00	0.0	1.529	0.095	3	1	1	3
PL.54800	PL.54799	C	6 A (CWC)	7.41Y	123.5	0.00	1.46	1.56	1	11	3	96	0.00	0.0	1.581	0.052	0	0	0	2
PL.33245	PL.54800	C	6 A (CWC)	7.41Y	123.5	0.00	1.46	0.57	0	4	1	97	0.00	0.0	1.646	0.064	4	1	1	1
PL.33258	PL.54800	C	6 A (CWC)	7.41Y	123.5	0.00	1.47	0.99	1	7	2	96	0.00	0.0	1.635	0.054	7	2	1	1

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.54791	PL.54790	A	#2 ACSR	7.43Y	123.8	0.00	1.22	1.13	1	8	2	97	0.00	0.0	1.225	0.003	0	0	0	1
PD.8170	PL.54791	A	40QA	7.43Y	123.8	0.00	1.22	1.13	3	8	2	97	0.00	0.0	1.225	0.003	0	0	0	1
PL.54792	PD.8170	A	#2 ACSR	7.43Y	123.8	0.00	1.22	1.13	1	8	2	97	0.00	0.0	1.285	0.060	8	2	1	1
PL.54788	PL.54787	C	#4 ACSR	7.43Y	123.9	0.00	1.10	0.74	1	5	1	98	0.00	0.0	1.124	0.003	0	0	0	1
PD.8169	PL.54788	C	40QA	7.43Y	123.9	0.00	1.10	0.74	2	5	1	98	0.00	0.0	1.124	0.003	0	0	0	1
PL.54789	PD.8169	C	#4 ACSR	7.43Y	123.9	0.00	1.10	0.74	1	5	1	98	0.00	0.0	1.214	0.091	5	1	1	1
PL.33282	PL.33244	B	6 A (CWC)	7.44Y	124.0	0.00	1.02	6.85	5	49	13	97	0.00	0.0	1.049	0.003	0	0	0	9
PD.4984	PL.33282	B	40QA	7.44Y	124.0	0.00	1.02	6.85	17	49	13	97	0.00	0.0	1.049	0.003	0	0	0	9
PL.64051	PD.4984	B	6 A (CWC)	7.44Y	124.0	0.03	1.05	6.85	5	49	13	97	0.01	0.0	1.160	0.110	8	2	2	9
PL.64054	PL.64051	B	#4 ACSR	7.44Y	123.9	0.02	1.06	3.16	2	23	6	97	0.00	0.0	1.269	0.109	0	0	0	5
PL.57608	PL.64054	B	#1/0 ACSR	7.44Y	123.9	0.00	1.07	2.38	1	17	5	96	0.00	0.0	1.331	0.063	5	1	1	4
PL.57609	PL.57608	B	#1/0 ACSR	7.44Y	123.9	0.00	1.07	1.74	1	12	3	97	0.00	0.0	1.410	0.079	0	0	1	3
PL.62772	PL.57609	B	#1/0 ACSR	7.44Y	123.9	0.00	1.07	1.74	1	12	3	97	0.00	0.0	1.413	0.003	0	0	0	2
PD.9436	PL.62772	B	25T	7.44Y	123.9	0.00	1.07	1.74	0	12	3	97	0.00	0.0	1.413	0.003	0	0	0	2
PL.62773	PD.9436	B	#1/0 ACSR	7.44Y	123.9	0.00	1.07	1.74	1	12	3	97	0.00	0.0	1.476	0.063	0	0	0	2
PL.62774	PL.62773	B	#1/0 ACSR	7.44Y	123.9	0.00	1.07	1.74	1	12	3	97	0.00	0.0	1.514	0.038	0	0	0	2
PL.62775	PL.62774	B	#1/0 ACSR	7.44Y	123.9	0.00	1.07	1.74	1	12	3	97	0.00	0.0	1.571	0.057	12	3	1	2
PL.62776	PL.62775	B	#1/0 ACSR	7.44Y	123.9	0.00	1.07	0.01	0	0	0	100	0.00	0.0	1.727	0.156	0	0	1	1
PL.54786	PL.64054	B	#4 ACSR	7.44Y	123.9	0.00	1.06	0.78	1	6	2	95	0.00	0.0	1.336	0.067	6	2	1	1
PL.64052	PL.64051	B	#1/0 ACSR	7.44Y	124.0	0.00	1.05	0.78	0	6	2	95	0.00	0.0	1.282	0.122	6	2	1	1
PL.64053	PL.64051	B	#1/0 ACSR	7.44Y	124.0	0.00	1.05	1.80	1	13	3	97	0.00	0.0	1.217	0.058	13	3	1	1
PL.33418	PL.33362	A	6 A (CWC)	7.46Y	124.4	0.00	0.62	4.34	3	31	8	97	0.00	0.0	0.728	0.001	0	0	0	10
PD.4900	PL.33418	A	40QA	7.46Y	124.4	0.00	0.62	4.34	11	31	8	97	0.00	0.0	0.728	0.001	0	0	0	10
PL.61200	PD.4900	A	6 A (CWC)	7.46Y	124.4	0.02	0.65	4.34	3	31	8	97	0.01	0.0	0.844	0.116	0	0	0	10
PL.61201	PL.61200	A	6 A (CWC)	7.46Y	124.3	0.01	0.65	3.49	2	25	7	96	0.00	0.0	0.902	0.058	6	2	2	9
PL.55056	PL.61201	A	6 A (CWC)	7.46Y	124.3	0.01	0.67	2.64	2	19	5	97	0.00	0.0	1.012	0.111	0	0	0	7
PL.55064	PL.55056	A	6 A (CWC)	7.46Y	124.3	0.01	0.68	2.64	2	19	5	97	0.00	0.0	1.116	0.104	0	0	1	7
PL.55067	PL.55064	A	6 A (CWC)	7.46Y	124.3	0.00	0.68	2.64	2	19	5	97	0.00	0.0	1.151	0.035	8	2	2	6
PL.55068	PL.55067	A	6 A (CWC)	7.46Y	124.3	0.01	0.69	1.59	1	11	3	96	0.00	0.0	1.272	0.121	0	0	0	4
PL.55066	PL.55068	A	6 A (CWC)	7.46Y	124.3	0.00	0.69	0.84	1	6	2	95	0.00	0.0	1.327	0.055	0	0	1	2
PL.55057	PL.55066	A	6 A (CWC)	7.46Y	124.3	0.00	0.70	0.84	1	6	2	95	0.00	0.0	1.372	0.045	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.55065	PL.55068	A	6 A (CWC)	7.46Y	124.3	0.00	0.69	0.75	1	5	1	98	0.00	0.0	1.362	0.089	5	1	2	2
PL.55063	PL.55064	A	6 A (CWC)	7.46Y	124.3	0.00	0.68	0.00	0	0	0	100	0.00	0.0	1.286	0.170	0	0	0	0
PL.61202	PL.61200	A	#1/0 ACSR	7.46Y	124.4	0.00	0.65	0.85	0	6	2	95	0.00	0.0	0.848	0.003	0	0	0	1
PD.9104	PL.61202	A	15T	7.46Y	124.4	0.00	0.65	0.85	0	6	2	95	0.00	0.0	0.848	0.003	0	0	0	1
PL.61203	PD.9104	A	#1/0 ACSR	7.46Y	124.4	0.00	0.65	0.85	0	6	2	95	0.00	0.0	0.872	0.024	6	2	1	1
PL.55251	PL.55249	B	#1/0 ACSR	7.48Y	124.6	0.00	0.38	0.65	0	5	1	98	0.00	0.0	0.474	0.004	0	0	0	1
PD.8180	PL.55251	B	10QA	7.48Y	124.6	0.00	0.38	0.65	0	5	1	98	0.00	0.0	0.474	0.004	0	0	0	1
PL.55252	PD.8180	B	#1/0 ACSR	7.48Y	124.6	0.00	0.38	0.65	0	5	1	98	0.00	0.0	0.526	0.052	5	1	1	1
PL.33358	PL.33595	B	#4 ACSR	7.49Y	124.8	0.00	0.21	0.08	0	1	0	100	0.00	0.0	0.293	0.001	0	0	0	1
PD.4899	PL.33358	B	40QA	7.49Y	124.8	0.00	0.21	0.08	0	1	0	100	0.00	0.0	0.293	0.001	0	0	0	1
PL.33359	PD.4899	B	#4 ACSR	7.49Y	124.8	0.00	0.21	0.08	0	1	0	100	0.00	0.0	0.367	0.074	1	0	1	1
PL.52862	Bush	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	270.44	52	5792	1863	95	0.01	0.0	0.001	0.001	0	0	0	862
PL.52866	PL.52862	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	270.44	52	5792	1863	95	0.01	0.0	0.002	0.001	0	0	0	862
---------- Feeder No. 2 (Blackwater F2) Beginning with Device PD.8054 ----------																				
PD.8054	PL.52866	ABC	480VWE	7.50Y	125.0	0.00	0.00	270.44	0	5792	1863	95	0.00	0.0	0.002	0.001	0	0	0	862
PL.33548	PD.8054	ABC	397 SPACER	7.50Y	125.0	0.03	0.03	270.44	52	5792	1863	95	0.27	0.0	0.030	0.028	0	0	0	862
PL.55154	PL.33548	C	#2 ACSR	7.50Y	125.0	0.00	0.03	1.41	1	10	3	96	0.00	0.0	0.048	0.018	10	3	2	2
PL.33549	PL.33548	ABC	397 SPACER	7.49Y	124.8	0.15	0.17	269.97	52	5782	1857	95	1.57	0.0	0.193	0.163	4	1	1	860
PL.33515	PL.33549	ABC	336 MCM AC	7.47Y	124.5	0.32	0.50	268.06	52	5739	1828	95	9.45	0.2	0.349	0.156	0	0	0	856
PL.62402	PL.33515	ABC	336 MCM AC	7.47Y	124.4	0.07	0.57	267.59	52	5719	1803	95	1.95	0.0	0.381	0.032	0	0	0	855
PL.62401	PL.62402	ABC	336 MCM AC	7.44Y	124.0	0.42	0.99	266.02	51	5683	1789	95	12.17	0.2	0.586	0.205	15	4	1	850
PL.55603	PL.62401	A	6 A (CWC)	7.44Y	124.0	0.00	0.99	1.54	1	11	3	96	0.00	0.0	0.590	0.004	0	0	0	1
PD.8214	PL.55603	A	75QA	7.44Y	124.0	0.00	0.99	1.54	2	11	3	96	0.00	0.0	0.590	0.004	0	0	0	1
PL.62697	PD.8214	A	6 A (CWC)	7.44Y	124.0	0.00	0.99	1.54	1	11	3	96	0.00	0.0	0.682	0.092	11	3	1	1
PL.62696	PL.62697	A	1/0 AL URD	7.44Y	124.0	0.00	0.99	0.00	0	0	0	100	0.00	0.0	0.739	0.057	0	0	0	0
PL.55186	PL.62401	ABC	336 MCM AC	7.44Y	124.0	0.06	1.05	264.80	51	5645	1753	96	1.70	0.0	0.615	0.029	0	0	0	848
PL.55578	PL.55186	C	#1/0 ACSR	7.44Y	124.0	0.00	1.05	3.45	1	24	10	92	0.00	0.0	0.618	0.003	0	0	0	2
PD.8208	PL.55578	C	75QA	7.44Y	124.0	0.00	1.05	3.45	5	24	10	92	0.00	0.0	0.618	0.003	0	0	0	2
PL.55579	PD.8208	C	#1/0 ACSR	7.44Y	124.0	0.00	1.05	3.45	1	24	10	92	0.00	0.0	0.642	0.024	24	10	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.55581	PL.55186	ABC	336 MCM AC	7.43Y	123.8	0.13	1.17	263.65	51	5619	1740	96	3.66	0.1	0.677	0.063	9	2	3	846
PL.55580	PL.55581	ABC	336 MCM AC	7.42Y	123.7	0.16	1.33	263.25	51	5607	1729	96	4.53	0.1	0.755	0.078	0	0	0	843
PL.55582	PL.55580	A	#4 ACSR	7.42Y	123.7	0.00	1.33	2.80	2	20	5	97	0.00	0.0	0.758	0.003	0	0	0	2
PD.8209	PL.55582	A	75QA	7.42Y	123.7	0.00	1.33	2.80	4	20	5	97	0.00	0.0	0.758	0.003	0	0	0	2
PL.55583	PD.8209	A	#4 ACSR	7.42Y	123.7	0.00	1.33	2.80	2	20	5	97	0.00	0.0	0.817	0.060	20	5	2	2
PL.55584	PL.55580	C	#4 ACSR	7.42Y	123.7	0.00	1.33	1.03	1	7	2	96	0.00	0.0	0.758	0.003	0	0	0	2
PD.8210	PL.55584	C	75QA	7.42Y	123.7	0.00	1.33	1.03	1	7	2	96	0.00	0.0	0.758	0.003	0	0	0	2
PL.55585	PD.8210	C	#4 ACSR	7.42Y	123.7	0.00	1.33	1.03	1	7	2	96	0.00	0.0	0.818	0.060	3	1	1	2
PL.55586	PL.55585	C	#4 ACSR	7.42Y	123.7	0.00	1.33	0.56	0	4	1	97	0.00	0.0	0.909	0.091	4	1	1	1
PL.63850	PL.55580	ABC	336 MCM AC	7.41Y	123.4	0.22	1.55	261.97	50	5575	1711	96	6.44	0.1	0.866	0.111	0	0	0	839
PL.63854	PL.63850	ABC	336 MCM AC	7.41Y	123.4	0.01	1.56	261.97	50	5569	1696	96	0.19	0.0	0.870	0.003	0	0	0	839
PL.63858	PL.63854	ABC	336 MCM AC	7.40Y	123.4	0.09	1.65	243.69	47	5185	1560	96	2.37	0.0	0.917	0.047	0	0	0	808
PL.63855	PL.63858	ABC	#3/0 ACSR	7.39Y	123.2	0.19	1.84	154.05	51	3269	1008	96	3.86	0.1	1.014	0.097	13	3	2	529
PL.63856	PL.63855	ABC	#3/0 ACSR	7.38Y	123.0	0.14	1.98	153.45	51	3252	999	96	2.73	0.1	1.083	0.069	0	0	0	527
PL.33648	PL.63856	B	6 A (CWC)	7.38Y	123.0	0.00	1.98	3.20	2	23	6	97	0.00	0.0	1.084	0.000	0	0	0	4
PD.5012	PL.33648	B	25T	7.38Y	123.0	0.00	1.98	3.20	0	23	6	97	0.00	0.0	1.084	0.000	0	0	0	4
PL.53418	PD.5012	B	6 A (CWC)	7.38Y	123.0	0.01	1.98	3.20	2	23	6	97	0.00	0.0	1.137	0.053	6	2	1	4
PL.53417	PL.53418	B	6 A (CWC)	7.38Y	123.0	0.00	1.99	2.31	2	16	4	97	0.00	0.0	1.175	0.039	1	0	1	3
PL.53589	PL.53417	B	6 A (CWC)	7.38Y	123.0	0.00	1.99	2.24	2	16	4	97	0.00	0.0	1.228	0.053	16	4	2	2
PL.52710	PL.63856	ABC	#3/0 ACSR	7.37Y	122.8	0.19	2.17	152.15	51	3221	987	96	3.75	0.1	1.180	0.097	17	5	4	521
PL.52709	PL.52710	ABC	#3/0 ACSR	7.36Y	122.7	0.09	2.25	151.35	50	3201	977	96	1.69	0.1	1.224	0.044	0	0	0	517
PL.53419	PL.52709	ABC	#3/0 ACSR	7.36Y	122.7	0.07	2.33	151.35	50	3199	975	96	1.46	0.0	1.262	0.038	17	5	3	517
PL.55553	PL.53419	C	#4 ACSR	7.36Y	122.7	0.00	2.33	7.64	6	54	15	96	0.00	0.0	1.266	0.003	0	0	0	8
PD.8201	PL.55553	C	50QA	7.36Y	122.7	0.00	2.33	7.64	15	54	15	96	0.00	0.0	1.266	0.003	0	0	0	8
PL.55554	PD.8201	C	#4 ACSR	7.36Y	122.7	0.02	2.35	7.64	6	54	15	96	0.01	0.0	1.326	0.060	6	2	4	8
PL.55555	PL.55554	C	#4 ACSR	7.36Y	122.6	0.00	2.35	6.79	5	48	13	97	0.00	0.0	1.342	0.016	18	5	2	4
PL.55552	PL.55555	C	#4 ACSR	7.36Y	122.6	0.00	2.35	4.24	3	30	8	97	0.00	0.0	1.381	0.038	30	8	2	2
PL.55550	PL.53419	ABC	#3/0 ACSR	7.35Y	122.6	0.11	2.44	147.99	49	3126	953	96	2.19	0.1	1.322	0.060	26	7	7	506
PL.55556	PL.55550	ABC	#3/0 ACSR	7.35Y	122.5	0.09	2.53	146.11	49	3084	939	96	1.73	0.1	1.371	0.048	13	4	4	498
PL.55557	PL.55556	ABC	#3/0 ACSR	7.34Y	122.3	0.12	2.65	145.48	48	3068	933	96	2.33	0.1	1.436	0.066	0	0	0	494
PL.53587	PL.55557	C	#1/0 ACSR	7.34Y	122.3	0.00	2.65	0.54	0	4	1	97	0.00	0.0	1.439	0.003	0	0	0	1

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.7911	PL.53587	C	20QA	7.34Y	122.3	0.00	2.65	0.54	3	4	1	97	0.00	0.0	1.439	0.003	0	0	0	1
PL.53588	PD.7911	C	#1/0 ACSR	7.34Y	122.3	0.00	2.65	0.54	0	4	1	97	0.00	0.0	1.503	0.064	4	1	1	1
PL.55185	PL.55557	ABC	#3/0 ACSR	7.33Y	122.2	0.12	2.77	144.45	48	3044	924	96	2.27	0.1	1.501	0.065	0	0	0	488
PL.55420	PL.55185	A	#4 ACSR	7.33Y	122.2	0.00	2.77	4.17	3	29	8	96	0.00	0.0	1.504	0.003	0	0	0	9
PD.8205	PL.55420	A	50QA	7.33Y	122.2	0.00	2.77	4.17	8	29	8	96	0.00	0.0	1.504	0.003	0	0	0	9
PL.55417	PD.8205	A	#4 ACSR	7.33Y	122.2	0.01	2.78	4.17	3	29	8	96	0.00	0.0	1.552	0.048	5	1	2	9
PL.55418	PL.55417	A	#4 ACSR	7.33Y	122.2	0.00	2.78	1.25	1	9	2	98	0.00	0.0	1.593	0.041	9	2	2	2
PL.55419	PL.55417	A	#4 ACSR	7.33Y	122.2	0.00	2.78	2.18	2	15	4	97	0.00	0.0	1.572	0.020	15	4	5	5
PL.55184	PL.55185	ABC	#3/0 ACSR	7.33Y	122.1	0.12	2.90	143.06	48	3012	912	96	2.28	0.1	1.567	0.066	5	1	1	479
PL.53179	PL.55184	ABC	#3/0 ACSR	7.31Y	121.8	0.31	3.21	142.44	47	2997	905	96	5.84	0.2	1.739	0.171	0	0	0	475
PL.33458	PL.53179	ABC	#3/0 ACSR	7.30Y	121.6	0.16	3.37	142.06	47	2983	895	96	2.98	0.1	1.827	0.088	7	2	1	473
PL.33298	PL.33458	ABC	#3/0 ACSR	7.29Y	121.5	0.11	3.48	141.75	47	2973	889	96	2.05	0.1	1.887	0.061	10	3	3	472
PL.33299	PL.33298	ABC	#3/0 ACSR	7.28Y	121.3	0.20	3.68	141.30	47	2962	883	96	3.73	0.1	1.999	0.111	0	0	0	469
PL.33301	PL.33299	A	#2 ACSR	7.28Y	121.3	0.00	3.68	1.71	1	12	3	97	0.00	0.0	2.053	0.054	0	0	0	2
PL.33302	PL.33301	A	#2 ACSR	7.28Y	121.3	0.00	3.68	0.48	0	3	1	95	0.00	0.0	2.133	0.080	3	1	1	1
PL.33456	PL.33301	A	#2 ACSR	7.28Y	121.3	0.00	3.68	1.22	1	9	2	98	0.00	0.0	2.082	0.029	9	2	1	1
PL.55566	PL.33299	B	#2 ACSR	7.28Y	121.3	0.00	3.68	7.67	4	54	15	96	0.00	0.0	2.002	0.004	0	0	0	8
PD.8204	PL.55566	B	50QA	7.28Y	121.3	0.00	3.68	7.67	15	54	15	96	0.00	0.0	2.002	0.004	0	0	0	8
PL.55564	PD.8204	B	#2 ACSR	7.28Y	121.3	0.01	3.69	7.67	4	54	15	96	0.00	0.0	2.042	0.040	17	5	2	8
PL.62777	PL.55564	B	#1/0 ACSR	7.28Y	121.3	0.00	3.69	0.52	0	4	1	97	0.00	0.0	2.042	0.000	0	0	0	2
PL.62778	PL.62777	B	#1/0 ACSR	7.28Y	121.3	0.00	3.69	0.52	0	4	1	97	0.00	0.0	2.046	0.004	0	0	0	2
PL.62779	PL.62778	B	#1/0 ACSR	7.28Y	121.3	0.00	3.69	0.52	0	4	1	97	0.00	0.0	2.062	0.016	4	1	2	2
PL.55567	PL.55564	B	#2 ACSR	7.28Y	121.3	0.00	3.69	1.46	1	10	3	96	0.00	0.0	2.072	0.030	10	3	1	1
PL.55565	PL.55564	B	#2 ACSR	7.28Y	121.3	0.00	3.69	3.26	2	23	6	97	0.00	0.0	2.064	0.022	7	2	1	3
PL.53768	PL.55565	B	#2 ACSR	7.28Y	121.3	0.00	3.69	2.29	1	16	4	97	0.00	0.0	2.093	0.029	9	2	1	2
PL.53769	PL.53768	B	#2 ACSR	7.28Y	121.3	0.00	3.69	0.99	1	7	2	96	0.00	0.0	2.123	0.030	7	2	1	1
PL.33838	PL.33299	ABC	#3/0 ACSR	7.27Y	121.2	0.08	3.76	138.17	46	2892	860	96	1.51	0.1	2.046	0.047	0	0	0	459
PL.57567	PL.33838	C	#1/0 ACSR	7.27Y	121.2	0.01	3.77	5.94	3	42	11	97	0.00	0.0	2.092	0.046	11	3	1	6
PL.57568	PL.57567	C	#1/0 ACSR	7.27Y	121.2	0.01	3.78	4.40	2	31	8	97	0.00	0.0	2.153	0.061	0	0	0	5
PL.53185	PL.57568	C	#1/0 ACSR	7.27Y	121.2	0.00	3.78	1.16	1	8	2	97	0.00	0.0	2.184	0.030	8	2	1	1
PL.53184	PL.57568	C	#1/0 ACSR	7.27Y	121.2	0.00	3.78	3.23	1	23	6	97	0.00	0.0	2.221	0.068	1	0	2	4

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.53183	PL.53184	C	#1/0 ACSR	7.27Y	121.2	0.00	3.78	1.45	1	10	3	96	0.00	0.0	2.300	0.078	10	3	1	1
PL.53182	PL.53184	C	#1/0 ACSR	7.27Y	121.2	0.00	3.78	1.58	1	11	3	96	0.00	0.0	2.274	0.053	11	3	1	1
PL.59077	PL.33838	ABC	#2 ACSR	7.27Y	121.2	0.00	3.77	0.92	1	18	9	89	0.00	0.0	2.075	0.029	0	0	0	1
PD.8670	PL.59077	ABC	40QA	7.27Y	121.2	0.00	3.77	0.92	2	18	9	89	0.00	0.0	2.075	0.029	0	0	0	1
PL.59078	PD.8670	ABC	#2 ACSR	7.27Y	121.2	0.00	3.77	0.92	1	18	9	89	0.00	0.0	2.079	0.004	18	9	1	1
PL.55187	PL.33838	ABC	#3/0 ACSR	7.27Y	121.1	0.10	3.86	135.28	45	2831	838	96	1.69	0.1	2.101	0.055	0	0	0	452
PL.55189	PL.55187	ABC	#3/0 ACSR	7.25Y	120.8	0.32	4.18	132.49	44	2770	819	96	5.48	0.2	2.287	0.186	12	3	2	441
PL.55190	PL.55189	ABC	#3/0 ACSR	7.25Y	120.8	0.06	4.23	131.94	44	2753	808	96	1.02	0.0	2.322	0.035	0	0	0	439
PL.59081	PL.55190	ABC	#3/0 ACSR	7.24Y	120.7	0.06	4.30	131.32	44	2739	803	96	1.08	0.0	2.360	0.037	15	4	3	438
PL.59082	PL.59081	C	#4 ACSR	7.24Y	120.7	0.00	4.30	9.23	7	65	17	97	0.00	0.0	2.363	0.003	0	0	0	15
PD.8212	PL.59082	C	50QA	7.24Y	120.7	0.00	4.30	9.23	18	65	17	97	0.00	0.0	2.363	0.003	0	0	0	15
PL.55601	PD.8212	C	#4 ACSR	7.24Y	120.7	0.04	4.33	9.23	7	65	17	97	0.02	0.0	2.459	0.097	10	3	2	15
PL.55602	PL.55601	C	#4 ACSR	7.24Y	120.6	0.02	4.35	7.81	6	55	15	96	0.01	0.0	2.513	0.053	13	3	1	13
PL.33572	PL.55602	C	#4 ACSR	7.24Y	120.6	0.01	4.36	6.01	5	42	11	97	0.00	0.0	2.555	0.043	2	1	2	12
PL.64875	PL.33572	C	#4 ACSR	7.24Y	120.6	0.01	4.37	5.68	4	40	11	96	0.00	0.0	2.616	0.060	15	4	1	10
PL.64876	PL.64875	C	#4 ACSR	7.24Y	120.6	0.00	4.37	3.58	3	25	7	96	0.00	0.0	2.616	0.000	9	2	5	9
PL.55600	PL.64876	C	#4 ACSR	7.24Y	120.6	0.00	4.38	1.24	1	9	2	98	0.00	0.0	2.691	0.076	9	2	2	2
PL.33574	PL.64876	C	#4 ACSR	7.24Y	120.6	0.00	4.38	1.08	1	8	2	97	0.00	0.0	2.677	0.061	8	2	2	2
PL.59083	PL.59081	ABC	#3/0 ACSR	7.24Y	120.6	0.09	4.39	127.55	43	2659	780	96	1.52	0.1	2.415	0.056	0	0	0	420
PL.55595	PL.59083	ABC	#3/0 ACSR	7.23Y	120.5	0.08	4.47	126.65	42	2639	773	96	1.36	0.1	2.466	0.051	2	1	2	418
PL.55596	PL.55595	ABC	#3/0 ACSR	7.22Y	120.4	0.15	4.62	126.56	42	2635	771	96	2.54	0.1	2.561	0.094	5	1	1	416
PL.33346	PL.55596	ABC	#3/0 ACSR	7.22Y	120.3	0.07	4.69	126.33	42	2628	766	96	1.17	0.0	2.604	0.044	0	0	0	415
PD.4949-A	PL.33346	ABC	Closed	7.22Y	120.3	0.00	4.69	126.33	0	2627	764	96	0.00	0.0	2.604	0.044	0	0	0	415
PD.4949-B	PD.4949-A	ABC	Closed	7.22Y	120.3	0.00	4.69	126.33	0	2627	764	96	0.00	0.0	2.604	0.044	0	0	0	415
PL.33347	PD.4949-B	ABC	#3/0 ACSR	7.22Y	120.3	0.02	4.71	126.33	42	2627	764	96	0.36	0.0	2.618	0.013	0	0	0	415
PL.33489	PL.33347	B	6 A (CWC)	7.22Y	120.3	0.00	4.71	2.94	2	21	6	96	0.00	0.0	2.618	0.000	0	0	0	2
PD.4896	PL.33489	B	50QA	7.22Y	120.3	0.00	4.71	2.94	6	21	6	96	0.00	0.0	2.618	0.000	0	0	0	2
PL.33351	PD.4896	B	6 A (CWC)	7.22Y	120.3	0.00	4.72	2.94	2	21	6	96	0.00	0.0	2.661	0.043	9	3	1	2
PL.33352	PL.33351	B	6 A (CWC)	7.22Y	120.3	0.00	4.72	1.60	1	11	3	96	0.00	0.0	2.678	0.017	11	3	1	1
PL.33194	PL.33347	C	#2 ACSR	7.22Y	120.3	0.00	4.71	0.81	0	6	2	95	0.00	0.0	2.692	0.074	6	2	1	1
PL.33348	PL.33347	ABC	#3/0 ACSR	7.21Y	120.1	0.14	4.86	125.08	42	2600	756	96	2.36	0.1	2.708	0.090	18	5	2	412

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33353	PL.33348	ABC	#3/0 ACSR	7.20Y	120.0	0.09	4.95	124.20	41	2580	748	96	1.54	0.1	2.767	0.060	7	2	1	410
PL.34177	PL.33353	ABC	#3/0 ACSR	7.19Y	119.8	0.23	5.18	123.12	41	2556	740	96	3.77	0.1	2.915	0.148	0	0	0	406
PL.34178	PL.34177	ABC	#3/0 ACSR	7.18Y	119.7	0.10	5.28	123.12	41	2552	734	96	1.56	0.1	2.977	0.061	0	0	0	406
PL.34181	PL.34178	ABC	#3/0 ACSR	7.18Y	119.6	0.10	5.38	122.10	41	2529	726	96	1.62	0.1	3.042	0.065	9	3	3	401
PL.34185	PL.34181	ABC	#3/0 ACSR	7.17Y	119.5	0.13	5.51	121.65	41	2518	721	96	2.10	0.1	3.126	0.085	5	1	1	397
PL.34184	PL.34185	ABC	#3/0 ACSR	7.16Y	119.4	0.09	5.60	121.40	40	2511	717	96	1.51	0.1	3.188	0.061	8	2	2	396
PL.33616	PL.34184	ABC	#3/0 ACSR	7.16Y	119.3	0.10	5.70	120.99	40	2501	712	96	1.61	0.1	3.253	0.065	0	0	0	394
PL.53947	PL.33616	ABC	#3/0 ACSR	7.15Y	119.2	0.07	5.78	120.99	40	2499	710	96	1.14	0.0	3.299	0.046	3	1	2	394
PL.53949	PL.53947	ABC	#1/0 ACSR	7.15Y	119.2	0.01	5.78	24.07	10	498	136	96	0.03	0.0	3.318	0.019	0	0	0	77
PD.8101	PL.53949	ABC	50L	7.15Y	119.2	0.00	5.78	24.07	48	498	136	96	0.00	0.0	3.318	0.019	0	0	0	77
PL.53452	PD.8101	ABC	#1/0 ACSR	7.15Y	119.2	0.05	5.83	24.07	10	498	136	96	0.17	0.0	3.430	0.111	0	0	0	77
PL.53453	PL.53452	A	6 A (CWC)	7.15Y	119.2	0.00	5.83	1.19	1	8	2	97	0.00	0.0	3.434	0.004	0	0	0	2
PD.8102	PL.53453	A	20T	7.15Y	119.2	0.00	5.83	1.19	0	8	2	97	0.00	0.0	3.434	0.004	0	0	0	2
PL.53451	PD.8102	A	6 A (CWC)	7.15Y	119.2	0.00	5.83	1.19	1	8	2	97	0.00	0.0	3.482	0.048	4	1	1	2
PL.53450	PL.53451	A	#4 ACSR	7.15Y	119.2	0.00	5.84	0.66	1	5	1	98	0.00	0.0	3.567	0.085	5	1	1	1
PL.53454	PL.53452	ABC	#1/0 ACSR	7.15Y	119.2	0.01	5.84	23.67	10	490	133	97	0.04	0.0	3.458	0.028	0	0	0	75
PL.53455	PL.53454	A	#1/0 ACSR	7.15Y	119.2	0.00	5.84	0.37	0	3	1	95	0.00	0.0	3.461	0.003	0	0	0	1
PD.8103	PL.53455	A	10QA	7.15Y	119.2	0.00	5.84	0.37	0	3	1	95	0.00	0.0	3.461	0.003	0	0	0	1
PL.53456	PD.8103	A	#1/0 ACSR	7.15Y	119.2	0.00	5.84	0.37	0	3	1	95	0.00	0.0	3.541	0.080	3	1	1	1
PL.53457	PL.53454	ABC	#1/0 ACSR	7.14Y	119.1	0.09	5.93	23.55	10	487	132	97	0.31	0.1	3.671	0.212	1	0	1	74
PL.53458	PL.53457	ABC	#1/0 ACSR	7.14Y	119.0	0.02	5.96	23.48	10	486	132	97	0.08	0.0	3.723	0.052	0	0	0	73
PL.53463	PL.53458	ABC	#1/0 ACSR	7.14Y	119.0	0.02	5.98	23.48	10	486	132	97	0.08	0.0	3.778	0.056	0	0	0	73
PL.53464	PL.53463	A	6 A (CWC)	7.14Y	119.0	0.00	5.98	1.43	1	10	3	96	0.00	0.0	3.782	0.004	0	0	0	1
PD.8104	PL.53464	A	10QA	7.14Y	119.0	0.00	5.98	1.43	0	10	3	96	0.00	0.0	3.782	0.004	0	0	0	1
PL.53460	PD.8104	A	6 A (CWC)	7.14Y	119.0	0.00	5.98	1.43	1	10	3	96	0.00	0.0	3.812	0.029	0	0	0	1
PL.53459	PL.53460	A	#2 ACSR	7.14Y	119.0	0.00	5.98	1.43	1	10	3	96	0.00	0.0	3.832	0.020	10	3	1	1
PL.53461	PL.53460	A	6 A (CWC)	7.14Y	119.0	0.00	5.98	0.00	0	0	0	100	0.00	0.0	3.893	0.081	0	0	0	0
PL.53465	PL.53463	C	6 A (CWC)	7.14Y	119.0	0.00	5.98	1.94	1	13	4	96	0.00	0.0	3.782	0.004	0	0	0	2
PD.8105	PL.53465	C	10QA	7.14Y	119.0	0.00	5.98	1.94	0	13	4	96	0.00	0.0	3.782	0.004	0	0	0	2
PL.53467	PD.8105	C	6 A (CWC)	7.14Y	119.0	0.01	5.99	1.94	1	13	4	96	0.00	0.0	3.852	0.070	3	1	1	2
PL.53466	PL.53467	C	6 A (CWC)	7.14Y	119.0	0.00	5.99	0.00	0	0	0	100	0.00	0.0	3.981	0.129	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.53462	PL.53466	C	#4 ACSR	7.14Y	119.0	0.00	5.99	0.00	0	0	0	100	0.00	0.0	4.046	0.065	0	0	0	0
PL.33216	PL.53466	C	6 A (CWC)	7.14Y	119.0	0.00	5.99	0.00	0	0	0	100	0.00	0.0	4.221	0.240	0	0	0	0
PL.53468	PL.53467	C	#1/0 ACSR	7.14Y	119.0	0.00	5.99	1.54	1	11	3	96	0.00	0.0	3.904	0.052	11	3	1	1
PL.53469	PL.53463	ABC	#1/0 ACSR	7.14Y	119.0	0.02	5.99	22.36	10	462	125	97	0.05	0.0	3.816	0.038	0	0	0	70
PL.53470	PL.53469	ABC	#1/0 ACSR	7.14Y	119.0	0.04	6.03	21.95	10	454	123	97	0.12	0.0	3.912	0.095	2	0	1	69
PL.53473	PL.53470	ABC	#1/0 ACSR	7.14Y	118.9	0.02	6.05	21.86	10	452	122	97	0.06	0.0	3.963	0.051	14	4	2	68
PL.53476	PL.53473	ABC	#1/0 ACSR	7.13Y	118.9	0.06	6.11	20.48	9	423	115	96	0.19	0.0	4.130	0.167	0	0	0	63
PL.53482	PL.53476	ABC	#1/0 ACSR	7.13Y	118.9	0.02	6.13	20.28	9	419	113	97	0.05	0.0	4.175	0.045	15	4	3	62
PL.53483	PL.53482	C	6 A (CWC)	7.13Y	118.9	0.00	6.13	3.09	2	21	6	96	0.00	0.0	4.179	0.003	0	0	0	2
PD.8109	PL.53483	C	10QA	7.13Y	118.9	0.00	6.13	3.09	0	21	6	96	0.00	0.0	4.179	0.003	0	0	0	2
PL.53480	PD.8109	C	6 A (CWC)	7.13Y	118.9	0.00	6.13	3.09	2	21	6	96	0.00	0.0	4.206	0.028	6	2	1	2
PL.53479	PL.53480	C	6 A (CWC)	7.13Y	118.9	0.00	6.13	2.19	2	15	4	97	0.00	0.0	4.227	0.021	15	4	1	1
PL.53484	PL.53482	A	6 A (CWC)	7.13Y	118.9	0.00	6.13	9.37	7	65	17	97	0.00	0.0	4.180	0.004	0	0	0	7
PD.8110	PL.53484	A	30QA	7.13Y	118.9	0.00	6.13	9.37	31	65	17	97	0.00	0.0	4.180	0.004	0	0	0	7
PL.53485	PD.8110	A	6 A (CWC)	7.13Y	118.9	0.01	6.14	9.37	7	65	17	97	0.00	0.0	4.212	0.032	27	7	3	7
PL.53511	PL.53485	A	#4 ACSR	7.13Y	118.9	0.01	6.15	2.87	2	20	5	97	0.00	0.0	4.261	0.049	3	1	1	3
PL.53512	PL.53511	A	#4 ACSR	7.13Y	118.8	0.00	6.15	2.45	2	17	5	96	0.00	0.0	4.304	0.043	8	2	1	2
PL.53513	PL.53512	A	#4 ACSR	7.13Y	118.8	0.00	6.15	1.24	1	9	2	98	0.00	0.0	4.356	0.052	9	2	1	1
PL.53481	PL.53485	A	6 A (CWC)	7.13Y	118.9	0.00	6.15	2.58	2	18	5	96	0.00	0.0	4.264	0.053	18	5	1	1
PL.53493	PL.53482	ABC	#1/0 ACSR	7.13Y	118.8	0.02	6.15	15.40	7	318	86	97	0.05	0.0	4.255	0.079	5	1	2	50
PL.53495	PL.53493	A	6 A (CWC)	7.13Y	118.8	0.01	6.16	23.22	17	160	43	97	0.01	0.0	4.260	0.005	0	0	0	25
PD.7907	PL.53495	A	40QA	7.13Y	118.8	0.00	6.16	23.22	58	160	43	97	0.00	0.0	4.260	0.005	0	0	0	25
PL.53496	PD.7907	A	6 A (CWC)	7.13Y	118.8	0.04	6.20	23.22	17	160	43	97	0.05	0.0	4.300	0.040	0	0	0	25
PL.53501	PL.53496	A	6 A (CWC)	7.12Y	118.7	0.11	6.31	21.93	16	151	41	97	0.12	0.1	4.407	0.106	2	1	1	24
PL.53499	PL.53501	A	#4 ACSR	7.12Y	118.7	0.00	6.31	1.30	1	9	2	98	0.00	0.0	4.407	0.000	0	0	0	1
PD.4976	PL.53499	A	40QA	7.12Y	118.7	0.00	6.31	1.30	3	9	2	98	0.00	0.0	4.407	0.000	0	0	0	1
PL.53510	PD.4976	A	#4 ACSR	7.12Y	118.7	0.00	6.31	1.30	1	9	2	98	0.00	0.0	4.478	0.071	9	2	1	1
PL.55811	PL.53501	A	6 A (CWC)	7.12Y	118.6	0.10	6.41	17.06	12	117	32	96	0.09	0.1	4.550	0.143	16	4	2	18
PL.55809	PL.55811	A	6 A (CWC)	7.12Y	118.6	0.00	6.41	1.80	1	12	3	97	0.00	0.0	4.646	0.096	12	3	1	1
PL.55810	PL.55811	A	#2 ACSR	7.12Y	118.6	0.00	6.41	1.74	1	12	3	97	0.00	0.0	4.590	0.040	12	3	1	1
PL.55812	PL.55811	A	6 A (CWC)	7.12Y	118.6	0.00	6.41	3.14	2	22	6	96	0.00	0.0	4.595	0.045	17	5	2	4

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.55661	PL.55812	A	6 A (CWC)	7.11Y	118.6	0.01	6.42	0.72	1	5	1	98	0.00	0.0	4.765	0.170	0	0	0	2
PL.55604	PL.55661	A	6 A (CWC)	7.11Y	118.6	0.00	6.42	0.41	0	3	1	95	0.00	0.0	4.770	0.005	0	0	0	1
PD.8217	PL.55604	A	20T	7.11Y	118.6	0.00	6.42	0.41	0	3	1	95	0.00	0.0	4.770	0.005	0	0	0	1
PL.55605	PD.8217	A	6 A (CWC)	7.11Y	118.6	0.00	6.42	0.41	0	3	1	95	0.00	0.0	4.997	0.228	0	0	0	1
PL.55398	PL.55605	A	6 A (CWC)	7.11Y	118.6	0.01	6.43	0.41	0	3	1	95	0.00	0.0	5.423	0.426	0	0	0	1
PL.33136	PL.55398	A	#4 ACSR	7.11Y	118.6	0.00	6.43	0.41	0	3	1	95	0.00	0.0	5.616	0.193	3	1	1	1
PL.33588	PL.55398	A	6 A (CWC)	7.11Y	118.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	5.772	0.349	0	0	0	0
PL.33617	PL.33588	A	6 A (CWC)	7.11Y	118.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	6.558	0.785	0	0	0	0
PL.55197	PL.55605	A	#1/0 ACSR	7.11Y	118.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	5.321	0.323	0	0	0	0
PL.55393	PL.55197	A	#1/0 ACSR	7.11Y	118.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	5.421	0.100	0	0	0	0
PL.55394	PL.55393	A	#1/0 ACSR	7.11Y	118.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	6.095	0.674	0	0	0	0
PL.55396	PL.55661	A	6 A (CWC)	7.11Y	118.6	0.00	6.42	0.31	0	2	1	89	0.00	0.0	4.836	0.071	2	1	1	1
PL.55397	PL.55396	A	6 A (CWC)	7.11Y	118.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	4.840	0.005	0	0	0	0
PD.8216	PL.55397	A	10QA	7.11Y	118.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	4.840	0.005	0	0	0	0
PL.55395	PD.8216	A	6 A (CWC)	7.11Y	118.6	0.00	6.42	0.00	0	0	0	100	0.00	0.0	4.925	0.084	0	0	0	0
PL.61235	PL.55811	A	6 A (CWC)	7.12Y	118.6	0.00	6.41	8.09	6	56	15	97	0.00	0.0	4.556	0.006	0	0	0	10
PD.9110	PL.61235	A	10QA	7.12Y	118.6	0.00	6.41	8.09	0	56	15	97	0.00	0.0	4.556	0.006	0	0	0	10
PL.61238	PD.9110	A	6 A (CWC)	7.11Y	118.6	0.02	6.44	8.09	6	56	15	97	0.01	0.0	4.628	0.072	12	3	1	10
PL.61239	PL.61238	A	6 A (CWC)	7.11Y	118.6	0.01	6.45	6.27	4	43	12	96	0.00	0.0	4.675	0.047	0	0	0	9
PL.61237	PL.61239	A	6 A (CWC)	7.11Y	118.5	0.01	6.46	3.77	3	26	7	97	0.00	0.0	4.756	0.081	4	1	2	6
PL.33508	PL.61237	A	6 A (CWC)	7.11Y	118.5	0.01	6.47	3.21	2	22	6	96	0.00	0.0	4.807	0.051	11	3	1	4
PL.33509	PL.33508	A	6 A (CWC)	7.11Y	118.5	0.01	6.48	1.56	1	11	3	96	0.00	0.0	4.957	0.150	2	1	1	3
PL.33123	PL.33509	A	#1/0 ACSR	7.11Y	118.5	0.00	6.48	0.93	0	6	2	95	0.00	0.0	5.045	0.087	6	2	1	1
PL.55198	PL.33509	A	6 A (CWC)	7.11Y	118.5	0.00	6.48	0.28	0	2	1	89	0.00	0.0	5.112	0.155	2	1	1	1
PL.61236	PL.61239	A	#4 ACSR	7.11Y	118.5	0.00	6.45	2.50	2	17	5	96	0.00	0.0	4.736	0.061	12	3	2	3
PL.53502	PL.61236	A	#4 ACSR	7.11Y	118.5	0.00	6.46	0.77	1	5	1	98	0.00	0.0	4.819	0.083	5	1	1	1
PL.53500	PL.53501	A	#2 ACSR	7.12Y	118.7	0.01	6.32	3.25	2	22	6	96	0.00	0.0	4.539	0.132	0	0	0	4
PL.53498	PL.53500	A	#2 ACSR	7.12Y	118.7	0.00	6.32	0.84	0	6	2	95	0.00	0.0	4.571	0.032	6	2	1	1
PL.53497	PL.53500	A	#2 ACSR	7.12Y	118.7	0.01	6.33	2.41	1	17	4	97	0.00	0.0	4.624	0.085	0	0	0	3
PL.33107	PL.53497	A	#2 ACSR	7.12Y	118.7	0.00	6.33	2.41	1	17	4	97	0.00	0.0	4.666	0.043	2	1	1	3
PL.64847	PL.33107	A	#2 ACSR	7.12Y	118.7	0.00	6.33	0.92	1	6	2	95	0.00	0.0	4.730	0.063	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.61224	PL.33107	A	#1/0 ACSR	7.12Y	118.7	0.00	6.33	1.17	1	8	2	97	0.00	0.0	4.670	0.003	0	0	0	1
PD.9107	PL.61224	A	10T	7.12Y	118.7	0.00	6.33	1.17	0	8	2	97	0.00	0.0	4.670	0.003	0	0	0	1
PL.61225	PD.9107	A	#1/0 ACSR	7.12Y	118.7	0.00	6.33	1.17	1	8	2	97	0.00	0.0	4.762	0.092	8	2	1	1
PL.33448	PL.53497	A	#2 ACSR	7.12Y	118.7	0.00	6.33	0.00	0	0	0	100	0.00	0.0	4.684	0.061	0	0	0	0
PL.53492	PL.53496	A	#4 ACSR	7.13Y	118.8	0.00	6.20	1.29	1	9	2	98	0.00	0.0	4.399	0.098	9	2	1	1
PL.53494	PL.53493	C	#4 ACSR	7.13Y	118.8	0.00	6.16	22.29	17	153	41	97	0.00	0.0	4.258	0.003	0	0	0	23
PD.8111	PL.53494	C	40QA	7.13Y	118.8	0.00	6.16	22.29	56	153	41	97	0.00	0.0	4.258	0.003	0	0	0	23
PL.53491	PD.8111	C	#4 ACSR	7.13Y	118.8	0.03	6.18	22.29	17	153	41	97	0.03	0.0	4.288	0.030	12	3	3	23
PL.53490	PL.53491	C	#4 ACSR	7.13Y	118.8	0.05	6.23	20.62	16	142	38	97	0.05	0.0	4.338	0.050	4	1	1	20
PL.53488	PL.53490	C	#4 ACSR	7.12Y	118.7	0.03	6.26	17.81	14	123	33	97	0.03	0.0	4.385	0.046	23	6	2	18
PL.53486	PL.53488	C	#4 ACSR	7.12Y	118.7	0.03	6.30	14.43	11	99	27	96	0.02	0.0	4.441	0.057	18	5	3	16
PL.53487	PL.53486	C	#4 ACSR	7.12Y	118.7	0.00	6.30	2.67	2	18	5	96	0.00	0.0	4.493	0.052	18	5	2	2
PL.53508	PL.53486	C	#1/0 ACSR	7.12Y	118.7	0.00	6.30	9.19	4	63	17	97	0.00	0.0	4.461	0.020	13	4	1	11
PL.53509	PL.53508	C	#1/0 ACSR	7.12Y	118.7	0.01	6.31	7.27	3	50	14	96	0.00	0.0	4.551	0.090	9	3	1	10
PL.53505	PL.53509	C	#1/0 ACSR	7.12Y	118.7	0.01	6.32	5.91	3	41	11	97	0.00	0.0	4.593	0.042	5	1	1	9
PL.53506	PL.53505	C	6 A (CWC)	7.12Y	118.7	0.01	6.33	1.38	1	9	3	95	0.00	0.0	4.728	0.135	0	0	0	2
PL.53503	PL.53506	C	6 A (CWC)	7.12Y	118.7	0.01	6.33	1.38	1	9	3	95	0.00	0.0	4.840	0.111	0	0	0	2
PL.53504	PL.53503	C	6 A (CWC)	7.12Y	118.7	0.00	6.34	1.38	1	9	3	95	0.00	0.0	4.987	0.147	9	3	2	2
PL.53507	PL.53505	C	6 A (CWC)	7.12Y	118.7	0.02	6.34	3.79	3	26	7	97	0.00	0.0	4.735	0.141	0	0	1	6
PL.33165	PL.53507	C	#4 ACSR	7.12Y	118.7	0.00	6.34	0.62	0	4	1	97	0.00	0.0	4.805	0.070	4	1	1	1
PL.53540	PL.53507	C	6 A (CWC)	7.12Y	118.7	0.00	6.35	3.11	2	21	6	96	0.00	0.0	4.765	0.030	0	0	0	4
PL.53541	PL.53540	C	6 A (CWC)	7.12Y	118.7	0.00	6.35	0.67	0	5	1	98	0.00	0.0	4.837	0.072	5	1	1	1
PL.53539	PL.53540	C	#2 ACSR	7.12Y	118.7	0.00	6.35	2.44	1	17	5	96	0.00	0.0	4.792	0.027	17	5	3	3
PL.53489	PL.53490	C	#4 ACSR	7.13Y	118.8	0.00	6.23	2.18	2	15	4	97	0.00	0.0	4.401	0.063	15	4	1	1
PL.53477	PL.53476	C	6 A (CWC)	7.13Y	118.9	0.00	6.11	0.58	0	4	1	97	0.00	0.0	4.133	0.003	0	0	0	1
PD.8108	PL.53477	C	10QA	7.13Y	118.9	0.00	6.11	0.58	0	4	1	97	0.00	0.0	4.133	0.003	0	0	0	1
PL.53478	PD.8108	C	6 A (CWC)	7.13Y	118.9	0.00	6.11	0.58	0	4	1	97	0.00	0.0	4.172	0.040	4	1	1	1
PL.53475	PL.53478	C	6 A (CWC)	7.13Y	118.9	0.00	6.11	0.00	0	0	0	100	0.00	0.0	4.251	0.079	0	0	0	0
PL.53474	PL.53473	C	#4 ACSR	7.14Y	118.9	0.00	6.05	2.10	2	14	4	96	0.00	0.0	3.966	0.003	0	0	0	3
PD.8107	PL.53474	C	10QA	7.14Y	118.9	0.00	6.05	2.10	0	14	4	96	0.00	0.0	3.966	0.003	0	0	0	3
PL.53514	PD.8107	C	#4 ACSR	7.14Y	118.9	0.00	6.06	2.10	2	14	4	96	0.00	0.0	4.048	0.082	14	4	3	3

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.53471	PL.53469	A	#1/0 ACSR	7.14Y	119.0	0.00	5.99	1.22	1	8	2	97	0.00	0.0	3.819	0.003	0	0	0	1
PD.8106	PL.53471	A	10QA	7.14Y	119.0	0.00	5.99	1.22	0	8	2	97	0.00	0.0	3.819	0.003	0	0	0	1
PL.53472	PD.8106	A	#1/0 ACSR	7.14Y	119.0	0.00	6.00	1.22	1	8	2	97	0.00	0.0	3.847	0.028	8	2	1	1
PL.53948	PL.53947	ABC	#3/0 ACSR	7.15Y	119.2	0.04	5.82	96.79	32	1997	572	96	0.54	0.0	3.334	0.034	5	1	2	315
PL.53447	PL.53948	ABC	#3/0 ACSR	7.15Y	119.1	0.07	5.89	96.54	32	1991	570	96	0.96	0.0	3.395	0.061	5	1	2	313
PL.53449	PL.53447	C	6 A (CWC)	7.15Y	119.1	0.00	5.89	0.64	0	4	1	97	0.00	0.0	3.399	0.004	0	0	0	2
PD.8100	PL.53449	C	20QA	7.15Y	119.1	0.00	5.89	0.64	3	4	1	97	0.00	0.0	3.399	0.004	0	0	0	2
PL.53922	PD.8100	C	6 A (CWC)	7.15Y	119.1	0.00	5.89	0.64	0	4	1	97	0.00	0.0	3.420	0.021	3	1	1	2
PL.53921	PL.53922	C	6 A (CWC)	7.15Y	119.1	0.00	5.89	0.27	0	2	0	100	0.00	0.0	3.452	0.032	2	0	1	1
PL.53826	PL.53921	C	6 A (CWC)	7.15Y	119.1	0.00	5.89	0.00	0	0	0	100	0.00	0.0	3.547	0.095	0	0	0	0
PL.53448	PL.53447	ABC	#3/0 ACSR	7.14Y	119.1	0.03	5.93	96.08	32	1981	566	96	0.42	0.0	3.422	0.027	25	7	1	309
PL.33469	PL.53448	ABC	#3/0 ACSR	7.14Y	119.0	0.07	5.99	94.89	32	1956	559	96	0.85	0.0	3.478	0.056	8	2	1	308
PL.33316	PL.33469	ABC	#3/0 ACSR	7.14Y	119.0	0.06	6.05	94.25	31	1942	554	96	0.70	0.0	3.525	0.047	1	0	1	305
PL.33317	PL.33316	ABC	#3/0 ACSR	7.13Y	118.9	0.05	6.10	94.20	31	1940	552	96	0.60	0.0	3.565	0.040	3	1	2	304
PL.34207	PL.33317	ABC	#3/0 ACSR	7.13Y	118.8	0.07	6.17	94.04	31	1936	551	96	0.88	0.0	3.624	0.059	0	0	0	302
PL.57882	PL.34207	C	#4 ACSR	7.13Y	118.8	0.00	6.17	0.00	0	0	0	100	0.00	0.0	3.678	0.054	0	0	0	0
PL.34208	PL.34207	A	6 A (CWC)	7.13Y	118.8	0.00	6.17	0.67	0	5	1	98	0.00	0.0	3.625	0.001	0	0	0	1
PD.4908	PL.34208	A	50QA	7.13Y	118.8	0.00	6.17	0.67	1	5	1	98	0.00	0.0	3.625	0.001	0	0	0	1
PL.64849	PD.4908	A	6 A (CWC)	7.13Y	118.8	0.00	6.17	0.67	0	5	1	98	0.00	0.0	3.698	0.073	0	0	0	1
PL.53915	PL.64849	A	6 A (CWC)	7.13Y	118.8	0.00	6.17	0.67	0	5	1	98	0.00	0.0	3.787	0.089	5	1	1	1
PL.33462	PL.34207	ABC	#3/0 ACSR	7.12Y	118.7	0.10	6.27	92.08	31	1894	538	96	1.26	0.1	3.713	0.089	5	1	1	294
PL.33420	PL.33462	A	6 A (CWC)	7.12Y	118.7	0.00	6.27	3.59	3	25	7	96	0.00	0.0	3.714	0.001	0	0	0	6
PD.4909	PL.33420	A	50QA	7.12Y	118.7	0.00	6.27	3.59	7	25	7	96	0.00	0.0	3.714	0.001	0	0	0	6
PL.64848	PD.4909	A	6 A (CWC)	7.12Y	118.7	0.03	6.30	3.59	3	25	7	96	0.00	0.0	3.886	0.172	4	1	1	6
PL.53987	PL.64848	A	6 A (CWC)	7.12Y	118.7	0.01	6.30	2.96	2	20	6	96	0.00	0.0	3.936	0.050	0	0	1	5
PL.53986	PL.53987	A	6 A (CWC)	7.12Y	118.7	0.00	6.31	2.96	2	20	5	97	0.00	0.0	4.004	0.068	20	5	4	4
PL.33256	PL.64848	A	#2 ACSR	7.12Y	118.7	0.00	6.30	0.00	0	0	0	100	0.00	0.0	3.923	0.038	0	0	0	0
PL.53950	PL.33462	ABC	#3/0 ACSR	7.12Y	118.7	0.08	6.35	89.92	30	1849	525	96	0.93	0.1	3.781	0.068	0	0	0	284
PL.53664	PL.53950	ABC	#3/0 ACSR	7.11Y	118.6	0.09	6.44	89.46	30	1838	521	96	1.09	0.1	3.862	0.081	0	0	0	280
PL.34209	PL.53664	ABC	#3/0 ACSR	7.11Y	118.5	0.02	6.46	85.24	28	1750	496	96	0.27	0.0	3.884	0.022	0	0	0	264
PL.34212	PL.34209	A	#4 ACSR	7.11Y	118.5	0.00	6.46	1.74	1	12	3	97	0.00	0.0	3.885	0.001	0	0	0	1

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.4911	PL.34212	A	50QA	7.11Y	118.5	0.00	6.46	1.74	3	12	3	97	0.00	0.0	3.885	0.001	0	0	0	1
PL.34213	PD.4911	A	#4 ACSR	7.11Y	118.5	0.00	6.47	1.74	1	12	3	97	0.00	0.0	3.924	0.039	12	3	1	1
PL.53829	PL.34209	ABC	#3/0 ACSR	7.10Y	118.4	0.13	6.59	84.46	28	1734	491	96	1.46	0.1	4.007	0.122	9	2	1	262
PL.53827	PL.53829	A	#4 ACSR	7.10Y	118.4	0.00	6.60	18.95	15	130	35	97	0.00	0.0	4.007	0.000	0	0	0	16
PD.4926	PL.53827	A	50QA	7.10Y	118.4	0.00	6.60	18.95	38	130	35	97	0.00	0.0	4.007	0.000	0	0	0	16
PL.33510	PD.4926	A	#4 ACSR	7.10Y	118.4	0.04	6.63	18.95	15	130	35	97	0.04	0.0	4.058	0.051	23	6	3	16
PL.33511	PL.33510	A	#4 ACSR	7.10Y	118.3	0.02	6.65	15.63	12	107	29	97	0.01	0.0	4.083	0.024	0	0	0	13
PL.53989	PL.33511	A	#4 ACSR	7.10Y	118.3	0.04	6.69	13.83	11	95	26	96	0.03	0.0	4.148	0.065	16	4	1	9
PL.53990	PL.53989	A	#4 ACSR	7.10Y	118.3	0.01	6.70	11.51	9	79	21	97	0.00	0.0	4.163	0.016	12	3	1	8
PL.53991	PL.53990	A	#4 ACSR	7.10Y	118.3	0.01	6.71	9.72	7	67	18	97	0.01	0.0	4.197	0.034	19	5	1	7
PL.53988	PL.53991	A	#4 ACSR	7.10Y	118.3	0.00	6.71	1.26	1	9	2	98	0.00	0.0	4.235	0.037	9	2	2	2
PL.53992	PL.53991	A	#4 ACSR	7.10Y	118.3	0.02	6.72	5.66	4	39	10	97	0.00	0.0	4.263	0.065	6	2	1	4
PL.57880	PL.53992	A	#4 ACSR	7.10Y	118.3	0.00	6.73	4.80	4	33	9	96	0.00	0.0	4.289	0.027	33	9	3	3
PL.33125	PL.33511	A	#4 ACSR	7.10Y	118.3	0.00	6.65	1.81	1	12	3	97	0.00	0.0	4.119	0.036	12	3	4	4
PL.53828	PL.53829	ABC	#3/0 ACSR	7.10Y	118.3	0.07	6.66	77.70	26	1593	451	96	0.69	0.0	4.075	0.068	4	1	2	245
REG28	PL.53828	ABC	114.3 KVA	7.52Y	125.4	-7.05	-0.39	77.50	52	1588	449	96	percent Boost= 5.62			Tap= 9.0				243
PL.33455	REG28	ABC	#3/0 ACSR	7.52Y	125.3	0.08	-0.32	73.14	24	1588	449	96	0.73	0.0	4.156	0.081	0	0	0	243
PL.34299	PL.33455	C	6 A (CWC)	7.52Y	125.3	0.00	-0.32	8.89	6	65	17	97	0.00	0.0	4.157	0.001	0	0	0	15
PD.5009	PL.34299	C	50QA	7.52Y	125.3	0.00	-0.32	8.89	18	65	17	97	0.00	0.0	4.157	0.001	0	0	0	15
PL.61211	PD.5009	C	6 A (CWC)	7.52Y	125.3	0.01	-0.31	8.89	6	65	17	97	0.00	0.0	4.174	0.017	0	0	0	15
PL.61213	PL.61211	C	6 A (CWC)	7.52Y	125.3	0.01	-0.30	8.89	6	65	17	97	0.01	0.0	4.204	0.029	8	2	1	15
PL.61214	PL.61213	C	6 A (CWC)	7.51Y	125.2	0.08	-0.22	7.82	6	57	15	97	0.03	0.1	4.416	0.212	0	0	0	14
PL.61212	PL.61214	C	6 A (CWC)	7.51Y	125.2	0.01	-0.21	7.82	6	57	15	97	0.01	0.0	4.458	0.042	0	0	0	14
PL.53963	PL.61212	C	6 A (CWC)	7.51Y	125.2	0.01	-0.19	7.82	6	57	15	97	0.00	0.0	4.492	0.034	3	1	1	14
PL.53964	PL.53963	C	6 A (CWC)	7.51Y	125.2	0.02	-0.18	7.38	5	53	14	97	0.01	0.0	4.538	0.046	3	1	1	13
PL.53961	PL.53964	C	6 A (CWC)	7.51Y	125.2	0.00	-0.18	1.03	1	8	2	97	0.00	0.0	4.592	0.053	8	2	1	1
PL.53962	PL.53964	C	6 A (CWC)	7.51Y	125.2	0.02	-0.16	5.96	4	43	12	96	0.01	0.0	4.626	0.087	0	0	0	11
PL.53994	PL.53962	C	#4 ACSR	7.51Y	125.1	0.02	-0.14	3.97	3	29	8	96	0.00	0.0	4.720	0.095	5	1	1	8
PL.53996	PL.53994	C	#4 ACSR	7.51Y	125.1	0.00	-0.14	1.55	1	11	3	96	0.00	0.0	4.762	0.042	2	1	1	2
PL.53997	PL.53996	C	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	1.23	1	9	2	98	0.00	0.0	4.800	0.038	9	2	1	1
PL.53995	PL.53994	C	#4 ACSR	7.51Y	125.1	0.01	-0.13	1.72	1	12	3	97	0.00	0.0	4.825	0.105	6	2	1	5

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.63970	PL.53995	C	#4 ACSR	7.51Y	125.1	0.00	-0.13	0.91	1	7	2	96	0.00	0.0	4.931	0.106	3	1	1	4
PL.63968	PL.63970	C	#4 ACSR	7.51Y	125.1	0.00	-0.13	0.51	0	4	1	97	0.00	0.0	4.957	0.026	4	1	2	3
PL.63969	PL.63968	C	#4 ACSR	7.51Y	125.1	0.00	-0.13	0.01	0	0	0	100	0.00	0.0	5.028	0.070	0	0	1	1
PL.34303	PL.53962	C	#4 ACSR	7.51Y	125.1	0.01	-0.15	1.96	2	14	4	96	0.00	0.0	4.703	0.077	0	0	0	2
PL.54001	PL.34303	C	#4 ACSR	7.51Y	125.1	0.00	-0.15	1.20	1	9	2	98	0.00	0.0	4.722	0.020	9	2	1	1
PL.53998	PL.34303	C	#4 ACSR	7.51Y	125.1	0.00	-0.15	0.76	1	6	1	99	0.00	0.0	4.758	0.055	0	0	0	1
PL.53999	PL.53998	C	#4 ACSR	7.51Y	125.1	0.00	-0.15	0.76	1	6	1	99	0.00	0.0	4.792	0.034	6	1	1	1
PL.54000	PL.53999	C	#4 ACSR	7.51Y	125.1	0.00	-0.15	0.00	0	0	0	100	0.00	0.0	4.974	0.182	0	0	0	0
PL.33624	PL.53962	C	#4 ACSR	7.51Y	125.2	0.00	-0.16	0.03	0	0	0	100	0.00	0.0	4.691	0.065	0	0	1	1
PL.53969	PL.33455	ABC	#3/0 ACSR	7.51Y	125.2	0.10	-0.22	65.84	22	1429	405	96	0.87	0.1	4.276	0.120	11	3	1	215
PL.53970	PL.53969	C	#1/0 ACSR	7.51Y	125.2	0.00	-0.22	0.00	0	0	0	100	0.00	0.0	4.280	0.004	0	0	0	0
PD.8117	PL.53970	C	10QA	7.51Y	125.2	0.00	-0.22	0.00	0	0	0	100	0.00	0.0	4.280	0.004	0	0	0	0
PL.53971	PD.8117	C	#1/0 ACSR	7.51Y	125.2	0.00	-0.22	0.00	0	0	0	100	0.00	0.0	4.303	0.024	0	0	0	0
PL.64330	PL.53969	ABC	#3/0 ACSR	7.51Y	125.2	0.06	-0.16	65.34	22	1417	401	96	0.50	0.0	4.345	0.069	4	1	1	214
PL.64333	PL.64330	ABC	#3/0 ACSR	7.51Y	125.2	0.00	-0.16	65.16	22	1413	399	96	0.00	0.0	4.346	0.000	4	1	2	213
PL.64331	PL.64333	C	#4 ACSR	7.51Y	125.2	0.00	-0.16	2.47	2	18	5	96	0.00	0.0	4.347	0.002	0	0	0	2
PD.4956	PL.64331	C	50QA	7.51Y	125.2	0.00	-0.16	2.47	5	18	5	96	0.00	0.0	4.347	0.002	0	0	0	2
PL.33260	PD.4956	C	#4 ACSR	7.51Y	125.2	0.01	-0.15	2.47	2	18	5	96	0.00	0.0	4.431	0.084	9	2	1	2
PL.62762	PL.33260	C	1/0 AL URD	7.51Y	125.2	0.00	-0.15	1.29	1	9	3	95	0.00	0.0	4.457	0.027	9	3	1	1
PL.64332	PL.64333	ABC	#3/0 ACSR	7.51Y	125.1	0.07	-0.09	64.14	21	1391	393	96	0.62	0.0	4.435	0.089	0	0	0	209
PL.64852	PL.64332	ABC	#3/0 ACSR	7.50Y	125.0	0.06	-0.03	64.14	21	1390	392	96	0.48	0.0	4.504	0.069	7	2	2	209
PL.34305	PL.64852	ABC	#3/0 ACSR	7.50Y	124.9	0.10	0.07	63.82	21	1382	389	96	0.86	0.1	4.631	0.127	10	3	1	207
PL.34306	PL.34305	ABC	#3/0 ACSR	7.49Y	124.9	0.06	0.13	63.36	21	1372	386	96	0.53	0.0	4.709	0.078	0	0	0	206
PL.56640	PL.34306	A	#4 ACSR	7.49Y	124.9	0.00	0.13	0.96	1	7	2	96	0.00	0.0	4.713	0.004	0	0	0	1
PD.8325	PL.56640	A	25T	7.49Y	124.9	0.00	0.13	0.96	0	7	2	96	0.00	0.0	4.713	0.004	0	0	0	1
PL.61190	PD.8325	A	#4 ACSR	7.49Y	124.9	0.00	0.14	0.96	1	7	2	96	0.00	0.0	4.749	0.036	7	2	1	1
PL.61191	PL.61190	A	#4 ACSR	7.49Y	124.9	0.00	0.14	0.00	0	0	0	100	0.00	0.0	4.935	0.186	0	0	0	0
PL.34307	PL.34306	ABC	#3/0 ACSR	7.49Y	124.8	0.05	0.19	63.04	21	1364	383	96	0.46	0.0	4.777	0.068	4	1	1	205
PL.34308	PL.34307	ABC	#3/0 ACSR	7.49Y	124.8	0.05	0.24	62.85	21	1360	381	96	0.40	0.0	4.838	0.060	18	5	3	204
PL.53912	PL.34308	ABC	#3/0 ACSR	7.48Y	124.7	0.05	0.29	59.34	20	1283	360	96	0.42	0.0	4.910	0.072	7	2	1	194
PL.53965	PL.53912	ABC	#3/0 ACSR	7.48Y	124.7	0.03	0.32	59.01	20	1276	357	96	0.24	0.0	4.951	0.042	0	0	0	193

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.53967	PL.53965	C	#1/0 ACSR	7.48Y	124.7	0.00	0.32	2.58	1	19	5	97	0.00	0.0	4.955	0.004	0	0	0	1
PD.8116	PL.53967	C	20QA	7.48Y	124.7	0.00	0.32	2.58	13	19	5	97	0.00	0.0	4.955	0.004	0	0	0	1
PL.53968	PD.8116	C	#1/0 ACSR	7.48Y	124.7	0.00	0.32	2.58	1	19	5	97	0.00	0.0	4.972	0.017	19	5	1	1
PL.53966	PL.53965	ABC	#3/0 ACSR	7.48Y	124.6	0.04	0.36	58.15	19	1257	352	96	0.30	0.0	5.005	0.053	0	0	0	192
PD.5014	PL.53966	ABC	100L	7.48Y	124.6	0.00	0.36	58.15	58	1256	352	96	0.00	0.0	5.005	0.053	0	0	0	192
PL.33807	PD.5014	ABC	#3/0 ACSR	7.48Y	124.6	0.00	0.36	58.15	19	1256	352	96	0.00	0.0	5.005	0.000	0	0	0	192
PL.58445	PL.33807	ABC	#3/0 ACSR	7.48Y	124.6	0.05	0.41	58.15	19	1256	352	96	0.37	0.0	5.071	0.066	0	0	0	192
PL.58447	PL.58445	C	#4 ACSR	7.48Y	124.6	0.00	0.41	2.25	2	16	4	97	0.00	0.0	5.071	0.001	0	0	0	4
PD.8593	PL.58447	C	40QA	7.48Y	124.6	0.00	0.41	2.25	6	16	4	97	0.00	0.0	5.071	0.001	0	0	0	4
PL.58444	PD.8593	C	#4 ACSR	7.48Y	124.6	0.00	0.41	1.48	1	11	3	96	0.00	0.0	5.153	0.082	11	3	1	1
PL.58443	PD.8593	C	6 A (CWC)	7.48Y	124.6	0.01	0.41	0.77	1	6	1	99	0.00	0.0	5.231	0.160	0	0	2	3
PL.33150	PL.58443	C	6 A (CWC)	7.47Y	124.6	0.01	0.42	0.73	1	5	1	98	0.00	0.0	5.563	0.331	5	1	1	1
PL.58446	PL.58445	ABC	#3/0 ACSR	7.46Y	124.4	0.20	0.61	57.40	19	1240	347	96	1.54	0.1	5.349	0.278	0	0	0	188
PL.33423	PL.58446	ABC	#3/0 ACSR	7.46Y	124.3	0.08	0.69	54.22	18	1169	326	96	0.55	0.0	5.460	0.112	0	0	0	176
PL.33424	PL.33423	ABC	#3/0 ACSR	7.45Y	124.2	0.08	0.77	54.22	18	1169	325	96	0.59	0.1	5.580	0.120	4	1	2	176
PL.53958	PL.33424	ABC	#3/0 ACSR	7.44Y	123.9	0.31	1.07	54.01	18	1164	323	96	2.20	0.2	6.028	0.448	0	0	0	174
PL.54005	PL.53958	ABC	#3/0 ACSR	7.42Y	123.7	0.22	1.29	53.43	18	1149	316	96	1.54	0.1	6.350	0.321	2	0	2	172
PL.54006	PL.54005	ABC	#3/0 ACSR	7.42Y	123.7	0.03	1.32	51.71	17	1111	304	96	0.20	0.0	6.395	0.045	1	0	1	167
PL.54003	PL.54006	ABC	#3/0 ACSR	7.42Y	123.6	0.04	1.36	50.96	17	1094	300	96	0.27	0.0	6.456	0.061	1	0	1	165
PL.33174	PL.54003	ABC	#3/0 ACSR	7.41Y	123.6	0.07	1.43	50.91	17	1093	299	96	0.46	0.0	6.562	0.106	0	0	2	164
PL.34142	PL.33174	ABC	#3/0 ACSR	7.41Y	123.5	0.07	1.50	50.91	17	1092	298	96	0.47	0.0	6.671	0.109	2	0	2	162
PL.33909	PL.34142	ABC	#3/0 ACSR	7.40Y	123.4	0.12	1.62	50.45	17	1082	295	96	0.80	0.1	6.858	0.187	0	0	0	159
PL.33590	PL.33909	ABC	#1/0 ACSR	7.40Y	123.4	0.03	1.64	13.54	6	290	79	96	0.05	0.0	6.965	0.107	0	0	0	48
PL.33912	PL.33590	ABC	#1/0 ACSR	7.40Y	123.4	0.00	1.64	13.54	6	290	79	96	0.00	0.0	6.965	0.000	0	0	0	48
PD.5015	PL.33912	ABC	35L	7.40Y	123.4	0.00	1.64	13.54	39	290	79	96	0.00	0.0	6.965	0.000	0	0	0	48
PL.33913	PD.5015	ABC	#1/0 ACSR	7.40Y	123.3	0.08	1.73	13.54	6	290	79	96	0.17	0.1	7.310	0.344	0	0	0	48
PL.33957	PL.33913	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	5.71	2	41	11	97	0.00	0.0	7.311	0.001	0	0	0	4
PD.5000	PL.33957	C	40QA	7.40Y	123.3	0.00	1.73	5.71	14	41	11	97	0.00	0.0	7.311	0.001	0	0	0	4
PL.33476	PD.5000	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	5.71	2	41	11	97	0.00	0.0	7.339	0.029	15	4	1	4
PL.33257	PL.33476	C	#2 ACSR	7.40Y	123.3	0.00	1.73	1.29	1	9	2	98	0.00	0.0	7.374	0.034	9	2	1	1
PL.54009	PL.33476	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	2.30	1	16	4	97	0.00	0.0	7.405	0.066	16	4	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.54010	PL.54009	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	7.533	0.128	0	0	0	0
PL.54011	PL.54010	C	#2 ACSR	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	7.636	0.102	0	0	0	0
PL.54012	PL.54011	C	#2 ACSR	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	7.729	0.094	0	0	0	0
PL.33477	PL.33913	ABC	#1/0 ACSR	7.39Y	123.2	0.03	1.76	11.64	5	249	68	96	0.05	0.0	7.465	0.155	16	4	2	44
PL.33479	PL.33477	C	#1/0 ACSR	7.39Y	123.2	0.00	1.76	1.91	1	14	4	96	0.00	0.0	7.466	0.001	0	0	0	1
PD.4929	PL.33479	C	20QA	7.39Y	123.2	0.00	1.76	1.91	10	14	4	96	0.00	0.0	7.466	0.001	0	0	0	1
PL.33958	PD.4929	C	#1/0 ACSR	7.39Y	123.2	0.00	1.76	1.91	1	14	4	96	0.00	0.0	7.523	0.057	14	4	1	1
PL.33478	PL.33477	ABC	#1/0 ACSR	7.39Y	123.2	0.04	1.79	10.23	4	219	59	97	0.06	0.0	7.670	0.205	0	0	0	41
PL.55995	PL.33478	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.82	10.23	4	219	59	97	0.04	0.0	7.800	0.130	3	1	1	41
PL.61205	PL.55995	ABC	#1/0 ACSR	7.39Y	123.2	0.01	1.83	10.10	4	216	59	96	0.02	0.0	7.865	0.065	0	0	0	40
PL.61206	PL.61205	ABC	#1/0 ACSR	7.39Y	123.2	0.01	1.84	9.70	4	208	56	97	0.02	0.0	7.947	0.082	0	0	0	39
PL.33179	PL.61206	C	#1/0 ACSR	7.39Y	123.2	0.00	1.84	0.38	0	3	1	95	0.00	0.0	7.948	0.001	0	0	0	2
PD.4931	PL.33179	C	40QA	7.39Y	123.2	0.00	1.84	0.38	1	3	1	95	0.00	0.0	7.948	0.001	0	0	0	2
PL.33959	PD.4931	C	#1/0 ACSR	7.39Y	123.2	0.00	1.84	0.38	0	3	1	95	0.00	0.0	7.991	0.043	3	1	2	2
PL.33960	PL.33959	C	#1/0 ACSR	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	8.113	0.123	0	0	0	0
PL.34000	PL.33960	C	#1/0 ACSR	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	8.224	0.111	0	0	0	0
PL.34001	PL.34000	C	#1/0 ACSR	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	8.268	0.044	0	0	0	0
PL.33178	PL.61206	ABC	#1/0 ACSR	7.39Y	123.1	0.01	1.86	9.57	4	205	55	97	0.02	0.0	8.030	0.083	0	0	0	37
PL.34314	PL.33178	ABC	#1/0 ACSR	7.39Y	123.1	0.02	1.87	9.57	4	205	55	97	0.02	0.0	8.127	0.097	18	5	2	37
PL.55656	PL.34314	ABC	#1/0 ACSR	7.39Y	123.1	0.01	1.89	8.75	4	187	51	96	0.01	0.0	8.198	0.071	1	0	2	35
PL.55658	PL.55656	ABC	#1/0 ACSR	7.39Y	123.1	0.01	1.89	8.37	4	179	48	97	0.01	0.0	8.251	0.052	23	6	3	31
PL.55203	PL.55658	ABC	#1/0 ACSR	7.39Y	123.1	0.00	1.90	7.28	3	156	42	97	0.01	0.0	8.288	0.037	0	0	0	28
PL.55653	PL.55203	ABC	#1/0 ACSR	7.39Y	123.1	0.02	1.91	7.28	3	156	42	97	0.02	0.0	8.403	0.115	1	0	1	28
PL.55654	PL.55653	C	6 A (CWC)	7.39Y	123.1	0.00	1.91	6.35	5	45	12	97	0.00	0.0	8.408	0.004	0	0	0	5
PD.8220	PL.55654	C	40QA	7.39Y	123.1	0.00	1.91	6.35	16	45	12	97	0.00	0.0	8.408	0.004	0	0	0	5
PL.56790	PD.8220	C	6 A (CWC)	7.38Y	123.0	0.05	1.96	6.35	5	45	12	97	0.02	0.0	8.577	0.170	0	0	0	5
PL.56791	PL.56790	C	#4 ACSR	7.38Y	123.0	0.00	1.96	0.60	0	4	1	97	0.00	0.0	8.675	0.098	4	1	1	1
PL.56794	PL.56790	C	6 A (CWC)	7.38Y	123.0	0.01	1.97	5.75	4	41	11	97	0.00	0.0	8.620	0.043	20	5	3	4
PL.56795	PL.56794	C	6 A (CWC)	7.38Y	123.0	0.00	1.98	3.00	2	21	6	96	0.00	0.0	8.685	0.066	21	6	1	1
PL.56796	PL.56794	C	6 A (CWC)	7.38Y	123.0	0.00	1.97	0.00	0	0	0	100	0.00	0.0	8.740	0.120	0	0	0	0
PL.56792	PL.56796	C	6 A (CWC)	7.38Y	123.0	0.00	1.97	0.00	0	0	0	100	0.00	0.0	8.817	0.078	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.55655	PL.55653	A	#2 ACSR	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	8.409	0.006	0	0	0	3
PD.8221	PL.55655	A	60QA	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	8.409	0.006	0	0	0	3
PL.55652	PD.8221	A	#2 ACSR	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	8.472	0.063	0	0	3	3
PL.65750	PL.55653	A	#1/0 ACSR	7.39Y	123.1	0.00	1.91	15.33	7	109	30	96	0.00	0.0	8.407	0.004	0	0	0	19
PD.9588	PL.65750	A	30T	7.39Y	123.1	0.00	1.91	15.33	0	109	30	96	0.00	0.0	8.407	0.004	0	0	0	19
PL.65751	PD.9588	A	#1/0 ACSR	7.38Y	123.1	0.02	1.93	15.33	7	109	30	96	0.01	0.0	8.460	0.053	0	0	0	19
PL.55678	PL.65751	A	6 A (CWC)	7.38Y	123.1	0.00	1.93	0.28	0	2	1	89	0.00	0.0	8.510	0.050	2	1	1	1
PL.55681	PL.65751	A	#1/0 ACSR	7.38Y	123.1	0.02	1.95	15.06	7	107	29	97	0.01	0.0	8.505	0.045	0	0	0	18
PL.55682	PL.55681	A	#1/0 ACSR	7.38Y	123.0	0.01	1.96	15.06	7	107	29	97	0.01	0.0	8.547	0.043	0	0	0	18
PL.55679	PL.55682	A	#1/0 ACSR	7.38Y	123.0	0.04	2.00	11.28	5	80	22	96	0.02	0.0	8.685	0.138	0	0	1	13
PL.55663	PL.55679	A	6 A (CWC)	7.38Y	123.0	0.03	2.02	5.44	4	39	10	97	0.01	0.0	8.787	0.102	0	0	0	7
PL.55662	PL.55663	A	6 A (CWC)	7.38Y	123.0	0.01	2.04	5.44	4	39	10	97	0.00	0.0	8.846	0.058	16	4	1	7
PL.55666	PL.55662	A	6 A (CWC)	7.38Y	123.0	0.01	2.04	1.96	1	14	4	96	0.00	0.0	8.965	0.120	8	2	1	4
PL.55667	PL.55666	A	6 A (CWC)	7.38Y	123.0	0.00	2.04	0.61	0	4	1	97	0.00	0.0	9.021	0.056	4	1	1	1
PL.55683	PL.55666	A	#2 ACSR	7.38Y	123.0	0.00	2.04	0.24	0	2	0	100	0.00	0.0	9.026	0.060	2	0	2	2
PL.55664	PL.55662	A	6 A (CWC)	7.38Y	123.0	0.01	2.04	1.18	1	8	2	97	0.00	0.0	9.039	0.194	8	2	1	2
PL.55665	PL.55664	A	6 A (CWC)	7.38Y	123.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	9.074	0.034	0	0	1	1
PL.55669	PL.55679	A	#1/0 ACSR	7.38Y	123.0	0.00	2.00	5.84	3	42	11	97	0.00	0.0	8.716	0.031	0	0	0	5
PL.55668	PL.55669	A	6 A (CWC)	7.38Y	123.0	0.00	2.01	1.87	1	13	4	96	0.00	0.0	8.767	0.052	13	4	1	1
PL.55670	PL.55669	A	#1/0 ACSR	7.38Y	123.0	0.01	2.01	3.97	2	28	8	96	0.00	0.0	8.818	0.102	0	0	0	4
PL.55671	PL.55670	A	#1/0 ACSR	7.38Y	123.0	0.00	2.02	3.97	2	28	8	96	0.00	0.0	8.869	0.052	16	4	3	4
PL.55672	PL.55671	A	#1/0 ACSR	7.38Y	123.0	0.01	2.02	1.67	1	12	3	97	0.00	0.0	9.051	0.182	0	0	0	1
PL.55673	PL.55672	A	#1/0 ACSR	7.38Y	123.0	0.00	2.03	1.67	1	12	3	97	0.00	0.0	9.304	0.253	12	3	1	1
PL.55680	PL.55682	A	6 A (CWC)	7.38Y	123.0	0.01	1.97	2.89	2	21	6	96	0.00	0.0	8.619	0.072	7	2	1	4
PL.55674	PL.55680	A	6 A (CWC)	7.38Y	123.0	0.00	1.97	1.94	1	14	4	96	0.00	0.0	8.667	0.048	3	1	1	3
PL.55675	PL.55674	A	6 A (CWC)	7.38Y	123.0	0.00	1.98	1.54	1	11	3	96	0.00	0.0	8.717	0.049	11	3	2	2
PL.55677	PL.55682	A	#4 ACSR	7.38Y	123.0	0.00	1.96	0.88	1	6	2	95	0.00	0.0	8.604	0.057	6	2	1	1
PL.55204	PL.55203	A	#4 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	8.291	0.003	0	0	0	0
PD.8219	PL.55204	A	20QA	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	8.291	0.003	0	0	0	0
PL.59073	PD.8219	A	#4 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	8.342	0.050	0	0	0	0
PL.55205	PL.55203	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	8.292	0.004	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.8218	PL.55205	C	20QA	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	8.292	0.004	0	0	0	0
PL.55202	PD.8218	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	8.335	0.043	0	0	0	0
PL.55657	PL.55656	A	#2 ACSR	7.39Y	123.1	0.00	1.89	0.97	1	7	2	96	0.00	0.0	8.204	0.006	0	0	0	2
PD.8222	PL.55657	A	25QA	7.39Y	123.1	0.00	1.89	0.97	4	7	2	96	0.00	0.0	8.204	0.006	0	0	0	2
PL.55659	PD.8222	A	#2 ACSR	7.39Y	123.1	0.00	1.89	0.97	1	7	2	96	0.00	0.0	8.249	0.045	7	2	1	2
PL.55660	PL.55659	A	#2 ACSR	7.39Y	123.1	0.00	1.89	0.04	0	0	0	100	0.00	0.0	8.324	0.074	0	0	1	1
PL.61207	PL.61205	B	#1/0 ACSR	7.39Y	123.2	0.00	1.83	1.20	1	9	2	98	0.00	0.0	7.868	0.004	0	0	0	1
PD.9105	PL.61207	B	12T	7.39Y	123.2	0.00	1.83	1.20	0	9	2	98	0.00	0.0	7.868	0.004	0	0	0	1
PL.61208	PD.9105	B	#1/0 ACSR	7.39Y	123.2	0.00	1.83	1.20	1	9	2	98	0.00	0.0	7.925	0.056	9	2	1	1
PL.55996	PL.55995	A	#1/0 ACSR	7.39Y	123.2	0.00	1.82	0.00	0	0	0	100	0.00	0.0	7.803	0.003	0	0	0	0
PD.8305	PL.55996	A	20QA	7.39Y	123.2	0.00	1.82	0.00	0	0	0	100	0.00	0.0	7.803	0.003	0	0	0	0
PL.55994	PD.8305	A	#1/0 ACSR	7.39Y	123.2	0.00	1.82	0.00	0	0	0	100	0.00	0.0	7.824	0.020	0	0	0	0
PL.33189	PL.33909	ABC	6 A (CWC)	7.38Y	123.0	0.37	1.99	36.91	26	791	215	96	2.32	0.3	7.116	0.257	0	0	0	111
PL.33228	PL.33189	ABC	6 A (CWC)	7.38Y	123.0	0.00	1.99	36.91	26	789	214	97	0.01	0.0	7.117	0.001	0	0	0	111
PL.33943	PL.33228	ABC	6 A (CWC)	7.38Y	123.0	0.01	2.00	36.91	26	789	214	97	0.08	0.0	7.125	0.008	0	0	0	111
PL.33641	PL.33943	ABC	6 A (CWC)	7.38Y	123.0	0.03	2.04	36.85	26	787	214	96	0.21	0.0	7.149	0.024	3	1	1	110
PL.64402	PL.33641	ABC	6 A (CWC)	7.37Y	122.9	0.09	2.13	36.72	26	784	213	97	0.57	0.1	7.212	0.063	0	0	0	109
PL.64403	PL.64402	ABC	6 A (CWC)	7.37Y	122.9	0.01	2.13	2.20	2	47	13	96	0.00	0.0	7.294	0.082	25	7	3	10
PL.33642	PL.64403	ABC	6 A (CWC)	7.37Y	122.9	0.00	2.13	1.01	1	22	6	96	0.00	0.0	7.350	0.056	5	1	4	7
PL.33946	PL.33642	ABC	6 A (CWC)	7.37Y	122.9	0.00	2.13	0.77	1	16	4	97	0.00	0.0	7.431	0.082	16	4	3	3
PL.64405	PL.64402	ABC	6 A (CWC)	7.37Y	122.9	0.00	2.13	0.00	0	0	0	100	0.00	0.0	7.491	0.279	0	0	0	0
PL.64406	PL.64405	ABC	6 A (CWC)	7.37Y	122.9	0.00	2.13	0.00	0	0	0	100	0.00	0.0	7.495	0.005	0	0	0	0
PD.9537-B	PL.64406	ABC	Open	7.37Y	122.9	0.00	2.13	0.00	0	0	0	100	0.00	0.0	7.495	0.005	0	0	0	0
PL.64404	PL.64402	ABC	6 A (CWC)	7.36Y	122.7	0.17	2.30	34.52	25	737	200	97	1.02	0.1	7.341	0.129	2	1	1	99
PL.33947	PL.64404	ABC	6 A (CWC)	7.35Y	122.6	0.12	2.43	34.41	25	733	199	97	0.73	0.1	7.434	0.093	0	0	0	98
PL.33161	PL.33947	ABC	6 A (CWC)	7.35Y	122.6	0.00	2.43	34.41	25	733	199	97	0.00	0.0	7.434	0.000	0	0	0	98
PD.5017	PL.33161	ABC	50L	7.35Y	122.6	0.00	2.43	34.41	69	733	199	97	0.00	0.0	7.434	0.000	0	0	0	98
PL.33643	PD.5017	ABC	6 A (CWC)	7.35Y	122.5	0.07	2.49	34.41	25	733	199	97	0.40	0.1	7.485	0.051	7	2	2	98
PL.33948	PL.33643	ABC	6 A (CWC)	7.34Y	122.3	0.16	2.65	34.08	24	725	197	97	0.90	0.1	7.602	0.117	3	1	1	96
PL.33949	PL.33948	A	6 A (CWC)	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	7.602	0.000	0	0	0	0
PD.4916	PL.33949	A	40QA	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	7.602	0.000	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33950	PD.4916	A	6 A (CWC)	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	7.638	0.036	0	0	0	0
PL.33232	PL.33948	ABC	6 A (CWC)	7.33Y	122.2	0.13	2.78	33.95	24	722	195	97	0.74	0.1	7.700	0.098	5	1	2	95
PL.33233	PL.33232	ABC	6 A (CWC)	7.33Y	122.2	0.01	2.79	33.06	24	702	190	97	0.06	0.0	7.708	0.008	0	0	0	91
PL.33234	PL.33233	ABC	6 A (CWC)	7.32Y	122.1	0.15	2.94	33.06	24	702	190	97	0.81	0.1	7.820	0.112	0	0	0	91
PL.54039	PL.33234	ABC	6 A (CWC)	7.31Y	121.9	0.21	3.15	27.17	19	576	156	97	0.96	0.2	8.019	0.198	4	1	1	75
PL.54040	PL.54039	ABC	6 A (CWC)	7.31Y	121.8	0.04	3.18	27.00	19	572	155	97	0.16	0.0	8.052	0.034	0	0	0	74
PL.54041	PL.54040	ABC	6 A (CWC)	7.31Y	121.8	0.05	3.23	27.00	19	571	155	97	0.21	0.0	8.096	0.043	0	0	1	74
PL.33269	PL.54041	ABC	6 A (CWC)	7.30Y	121.7	0.03	3.25	26.98	19	571	154	97	0.11	0.0	8.120	0.025	27	7	4	73
PL.33229	PL.33269	ABC	6 A (CWC)	7.30Y	121.7	0.07	3.32	25.70	18	544	147	97	0.28	0.1	8.188	0.068	28	8	4	69
PL.33270	PL.33229	C	6 A (CWC)	7.30Y	121.7	0.00	3.32	2.60	2	18	5	96	0.00	0.0	8.189	0.001	0	0	0	2
PD.4932	PL.33270	C	40QA	7.30Y	121.7	0.00	3.32	2.60	6	18	5	96	0.00	0.0	8.189	0.001	0	0	0	2
PL.54022	PD.4932	C	397 SPACER	7.30Y	121.7	0.00	3.32	2.60	0	18	5	96	0.00	0.0	8.277	0.089	18	5	2	2
PL.54023	PL.54022	C	6 A (CWC)	7.30Y	121.7	0.00	3.32	0.00	0	0	0	100	0.00	0.0	8.331	0.054	0	0	0	0
PL.54021	PL.33229	ABC	6 A (CWC)	7.30Y	121.6	0.09	3.41	23.50	17	497	134	97	0.33	0.1	8.287	0.099	56	15	6	63
PL.61247	PL.54021	B	#1/0 ACSR	7.30Y	121.6	0.00	3.41	1.44	1	10	3	96	0.00	0.0	8.330	0.043	10	3	1	1
PL.54042	PL.54021	ABC	6 A (CWC)	7.29Y	121.5	0.05	3.45	20.38	15	431	116	97	0.16	0.0	8.347	0.059	7	2	1	56
PL.54044	PL.54042	C	#2 ACSR	7.29Y	121.5	0.00	3.46	2.79	2	20	5	97	0.00	0.0	8.372	0.025	20	5	1	1
PL.54043	PL.54042	ABC	6 A (CWC)	7.29Y	121.5	0.05	3.51	16.29	12	344	93	97	0.14	0.0	8.431	0.084	35	10	4	49
PL.33273	PL.54043	ABC	6 A (CWC)	7.29Y	121.5	0.03	3.53	14.61	10	309	83	97	0.07	0.0	8.480	0.049	24	6	5	45
PL.33633	PL.33273	ABC	6 A (CWC)	7.29Y	121.4	0.05	3.58	13.49	10	285	77	97	0.10	0.0	8.571	0.091	34	9	3	40
PL.33274	PL.33633	ABC	6 A (CWC)	7.28Y	121.4	0.02	3.60	11.48	8	242	65	97	0.04	0.0	8.616	0.045	7	2	1	36
PL.33191	PL.33274	A	6 A (CWC)	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	8.616	0.000	0	0	0	0
PD.4919	PL.33191	A	40QA	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	8.616	0.000	0	0	0	0
PL.33192	PD.4919	A	6 A (CWC)	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	8.663	0.047	0	0	0	0
PL.33261	PL.33274	ABC	6 A (CWC)	7.28Y	121.4	0.03	3.63	9.90	7	209	56	97	0.05	0.0	8.695	0.079	0	0	0	31
PL.33577	PL.33261	ABC	6 A (CWC)	7.28Y	121.4	0.01	3.64	9.07	6	191	52	96	0.01	0.0	8.725	0.030	32	9	6	29
PL.33578	PL.33577	ABC	6 A (CWC)	7.28Y	121.3	0.03	3.67	7.56	5	159	43	97	0.04	0.0	8.838	0.113	18	5	2	23
PL.33579	PL.33578	C	#4 ACSR	7.28Y	121.3	0.00	3.67	1.65	1	12	3	97	0.00	0.0	8.838	0.000	0	0	0	2
PD.4994	PL.33579	C	40QA	7.28Y	121.3	0.00	3.67	1.65	4	12	3	97	0.00	0.0	8.838	0.000	0	0	0	2
PL.33175	PD.4994	C	#4 ACSR	7.28Y	121.3	0.00	3.67	1.65	1	12	3	97	0.00	0.0	8.900	0.062	1	0	1	2
PL.33177	PL.33175	C	#4 ACSR	7.28Y	121.3	0.00	3.67	1.49	1	10	3	96	0.00	0.0	8.923	0.023	10	3	1	1

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33580	PL.33578	ABC	6 A (CWC)	7.28Y	121.3	0.02	3.69	6.16	4	130	35	97	0.02	0.0	8.931	0.093	13	3	1	19
PL.33584	PL.33580	ABC	6 A (CWC)	7.28Y	121.3	0.01	3.70	5.19	4	109	30	96	0.01	0.0	8.994	0.063	1	0	1	16
PL.33303	PL.33584	ABC	6 A (CWC)	7.28Y	121.3	0.02	3.72	5.15	4	108	29	97	0.02	0.0	9.102	0.108	15	4	1	15
PL.33581	PL.33303	ABC	6 A (CWC)	7.28Y	121.3	0.01	3.74	4.45	3	94	25	97	0.01	0.0	9.179	0.077	0	0	0	14
PL.33259	PL.33581	C	6 A (CWC)	7.28Y	121.3	0.00	3.74	3.00	2	21	6	96	0.00	0.0	9.180	0.001	0	0	0	2
PD.4995	PL.33259	C	40QA	7.28Y	121.3	0.00	3.74	3.00	8	21	6	96	0.00	0.0	9.180	0.001	0	0	0	2
PL.54019	PD.4995	C	6 A (CWC)	7.28Y	121.3	0.00	3.74	3.00	2	21	6	96	0.00	0.0	9.226	0.046	12	3	1	2
PL.54020	PL.54019	C	6 A (CWC)	7.28Y	121.3	0.00	3.74	1.30	1	9	2	98	0.00	0.0	9.270	0.045	9	2	1	1
PL.33294	PL.33581	ABC	6 A (CWC)	7.27Y	121.2	0.03	3.76	3.45	2	73	20	96	0.01	0.0	9.367	0.188	0	0	1	12
PL.33464	PL.33294	C	#2 ACSR	7.27Y	121.2	0.00	3.77	2.83	2	20	5	97	0.00	0.0	9.462	0.095	20	5	1	1
PL.33295	PL.33294	ABC	6 A (CWC)	7.27Y	121.2	0.01	3.77	2.51	2	53	14	97	0.00	0.0	9.428	0.061	12	3	3	10
PL.33296	PL.33295	ABC	6 A (CWC)	7.27Y	121.2	0.00	3.77	1.92	1	40	11	96	0.00	0.0	9.462	0.034	4	1	1	7
PL.54033	PL.33296	ABC	6 A (CWC)	7.27Y	121.2	0.00	3.77	1.75	1	37	10	97	0.00	0.0	9.515	0.053	0	0	0	6
PL.54035	PL.54033	C	#1/0 ACSR	7.27Y	121.2	0.00	3.77	0.80	0	6	2	95	0.00	0.0	9.518	0.003	0	0	0	1
PD.8118	PL.54035	C	10QA	7.27Y	121.2	0.00	3.77	0.80	0	6	2	95	0.00	0.0	9.518	0.003	0	0	0	1
PL.54036	PD.8118	C	#1/0 ACSR	7.27Y	121.2	0.00	3.77	0.80	0	6	2	95	0.00	0.0	9.555	0.037	6	2	1	1
PL.54034	PL.54033	ABC	6 A (CWC)	7.27Y	121.2	0.00	3.78	1.48	1	31	8	97	0.00	0.0	9.572	0.057	0	0	0	5
PL.33297	PL.54034	C	6 A (CWC)	7.27Y	121.2	0.00	3.78	4.45	3	31	8	97	0.00	0.0	9.575	0.003	0	0	0	5
PD.5010	PL.33297	C	40QA	7.27Y	121.2	0.00	3.78	4.45	11	31	8	97	0.00	0.0	9.575	0.003	0	0	0	5
PL.54029	PD.5010	C	6 A (CWC)	7.27Y	121.2	0.00	3.78	4.45	3	31	8	97	0.00	0.0	9.580	0.005	0	0	0	5
PL.54031	PL.54029	C	#1/0 ACSR	7.27Y	121.2	0.00	3.78	2.32	1	16	4	97	0.00	0.0	9.610	0.030	4	1	1	2
PL.54032	PL.54031	C	#1/0 ACSR	7.27Y	121.2	0.00	3.78	1.74	1	12	3	97	0.00	0.0	9.642	0.032	12	3	1	1
PL.54030	PL.54029	C	6 A (CWC)	7.27Y	121.2	0.01	3.79	2.13	2	15	4	97	0.00	0.0	9.687	0.107	0	0	0	3
PL.54028	PL.54030	C	6 A (CWC)	7.27Y	121.2	0.00	3.79	2.13	2	15	4	97	0.00	0.0	9.765	0.078	15	4	3	3
PL.33583	PL.33580	C	6 A (CWC)	7.28Y	121.3	0.00	3.69	1.06	1	7	2	96	0.00	0.0	8.931	0.000	0	0	0	2
PD.4920	PL.33583	C	40QA	7.28Y	121.3	0.00	3.69	1.06	3	7	2	96	0.00	0.0	8.931	0.000	0	0	0	2
PL.54018	PD.4920	C	6 A (CWC)	7.28Y	121.3	0.00	3.69	1.06	1	7	2	96	0.00	0.0	8.975	0.044	7	2	2	2
PL.33582	PL.33580	A	6 A (CWC)	7.28Y	121.3	0.00	3.69	0.00	0	0	0	100	0.00	0.0	8.931	0.000	0	0	0	0
PD.4981	PL.33582	A	40QA	7.28Y	121.3	0.00	3.69	0.00	0	0	0	100	0.00	0.0	8.931	0.000	0	0	0	0
PL.54017	PD.4981	A	6 A (CWC)	7.28Y	121.3	0.00	3.69	0.00	0	0	0	100	0.00	0.0	8.997	0.066	0	0	0	0
PL.33279	PL.33261	C	#2 ACSR	7.28Y	121.4	0.00	3.63	2.47	1	17	5	96	0.00	0.0	8.719	0.025	17	5	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33575	PL.33274	A	#4 ACSR	7.28Y	121.4	0.01	3.61	3.82	3	27	7	97	0.00	0.0	8.685	0.069	12	3	2	4
PL.33576	PL.33575	A	#4 ACSR	7.28Y	121.4	0.00	3.61	2.05	2	14	4	96	0.00	0.0	8.703	0.019	14	4	2	2
PL.33271	PL.33633	A	6 A (CWC)	7.29Y	121.4	0.00	3.58	1.24	1	9	2	98	0.00	0.0	8.572	0.000	0	0	0	1
PD.4980	PL.33271	A	40QA	7.29Y	121.4	0.00	3.58	1.24	3	9	2	98	0.00	0.0	8.572	0.000	0	0	0	1
PL.33272	PD.4980	A	6 A (CWC)	7.29Y	121.4	0.00	3.58	1.24	1	9	2	98	0.00	0.0	8.635	0.063	9	2	1	1
PL.54045	PL.54042	A	#1/0 ACSR	7.29Y	121.5	0.00	3.45	1.30	1	9	2	98	0.00	0.0	8.348	0.001	0	0	0	1
PD.4918	PL.54045	A	25QA	7.29Y	121.5	0.00	3.45	1.30	5	9	2	98	0.00	0.0	8.348	0.001	0	0	0	1
PL.54038	PD.4918	A	#1/0 ACSR	7.29Y	121.5	0.00	3.46	1.30	1	9	2	98	0.00	0.0	8.389	0.042	9	2	1	1
PL.63846	PL.54042	C	#1/0 ACSR	7.29Y	121.5	0.00	3.46	7.17	3	51	14	96	0.00	0.0	8.379	0.032	21	6	2	4
PL.63847	PL.63846	C	#1/0 ACSR	7.29Y	121.5	0.00	3.46	4.17	2	29	8	96	0.00	0.0	8.404	0.025	17	5	1	2
PL.54037	PL.63847	C	#1/0 ACSR	7.29Y	121.5	0.00	3.46	1.77	1	12	3	97	0.00	0.0	8.437	0.033	12	3	1	1
PL.33951	PL.33234	C	6 A (CWC)	7.32Y	122.1	0.00	2.94	17.67	13	125	34	96	0.00	0.0	7.821	0.000	0	0	0	16
PD.4930	PL.33951	C	40QA	7.32Y	122.1	0.00	2.94	17.67	44	125	34	96	0.00	0.0	7.821	0.000	0	0	0	16
PL.33952	PD.4930	C	6 A (CWC)	7.32Y	122.0	0.06	2.99	17.67	13	125	34	96	0.05	0.0	7.894	0.074	17	5	2	16
PL.33953	PL.33952	C	6 A (CWC)	7.32Y	121.9	0.08	3.07	14.44	10	102	28	96	0.06	0.1	8.009	0.115	0	0	0	13
PL.33954	PL.33953	C	6 A (CWC)	7.31Y	121.9	0.03	3.10	12.67	9	89	24	97	0.02	0.0	8.066	0.057	8	2	1	12
PL.33955	PL.33954	C	6 A (CWC)	7.31Y	121.8	0.07	3.17	11.53	8	81	22	97	0.04	0.1	8.205	0.139	0	0	0	11
PL.54026	PL.33955	C	6 A (CWC)	7.31Y	121.8	0.03	3.20	10.84	8	76	21	96	0.02	0.0	8.269	0.064	9	2	1	10
PL.54027	PL.54026	C	6 A (CWC)	7.31Y	121.8	0.02	3.23	8.52	6	60	16	97	0.01	0.0	8.329	0.060	0	0	0	8
PL.33956	PL.54027	C	6 A (CWC)	7.30Y	121.7	0.03	3.26	8.52	6	60	16	97	0.01	0.0	8.422	0.092	13	4	1	8
PL.33265	PL.33956	C	6 A (CWC)	7.30Y	121.7	0.04	3.29	6.66	5	47	13	96	0.01	0.0	8.542	0.120	2	0	1	7
PL.33266	PL.33265	C	6 A (CWC)	7.30Y	121.7	0.03	3.32	6.42	5	45	12	97	0.01	0.0	8.648	0.106	10	3	2	6
PL.33267	PL.33266	C	6 A (CWC)	7.30Y	121.7	0.02	3.34	5.05	4	36	10	96	0.00	0.0	8.750	0.102	10	3	1	4
PL.33268	PL.33267	C	#4/0 ACSR	7.30Y	121.7	0.00	3.34	2.44	1	17	5	96	0.00	0.0	8.799	0.049	7	2	1	2
PL.62742	PL.33268	C	#1/0 ACSR	7.30Y	121.7	0.00	3.34	1.40	1	10	3	96	0.00	0.0	8.850	0.051	10	3	1	1
PL.33167	PL.33267	C	#2 ACSR	7.30Y	121.7	0.00	3.34	1.21	1	9	2	98	0.00	0.0	8.807	0.056	9	2	1	1
PL.33639	PL.54027	C	#2 ACSR	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	8.375	0.046	0	0	0	0
PL.54025	PL.54026	C	#1/0 ACSR	7.31Y	121.8	0.00	3.20	1.10	0	8	2	97	0.00	0.0	8.330	0.061	8	2	1	1
PL.54024	PL.33955	C	#2 ACSR	7.31Y	121.8	0.00	3.17	0.70	0	5	1	98	0.00	0.0	8.298	0.093	5	1	1	1
PL.33230	PL.33954	C	#1/0 ACSR	7.31Y	121.9	0.00	3.10	0.00	0	0	0	100	0.00	0.0	8.130	0.064	0	0	0	0
PL.33169	PL.33953	C	#4 ACSR	7.32Y	121.9	0.00	3.07	1.77	1	13	3	97	0.00	0.0	8.073	0.064	13	3	1	1

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33147	PL.33952	C	6 A (CWC)	7.32Y	122.0	0.00	2.99	0.76	1	5	1	98	0.00	0.0	7.985	0.090	5	1	1	1
PL.33235	PL.33233	A	6 A (CWC)	7.33Y	122.2	0.00	2.79	0.00	0	0	0	100	0.00	0.0	7.708	0.000	0	0	0	0
PD.4917	PL.33235	A	40QA	7.33Y	122.2	0.00	2.79	0.00	0	0	0	100	0.00	0.0	7.708	0.000	0	0	0	0
PL.33250	PD.4917	A	6 A (CWC)	7.33Y	122.2	0.00	2.79	0.00	0	0	0	100	0.00	0.0	7.747	0.038	0	0	0	0
PL.33460	PL.33232	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	1.92	1	14	4	96	0.00	0.0	7.778	0.079	14	4	2	2
PL.33160	PL.33641	A	6 A (CWC)	7.38Y	123.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	7.170	0.022	0	0	0	0
PL.33944	PL.33943	C	6 A (CWC)	7.38Y	123.0	0.00	2.00	0.19	0	1	0	100	0.00	0.0	7.125	0.000	0	0	0	1
PD.4915	PL.33944	C	40QA	7.38Y	123.0	0.00	2.00	0.19	0	1	0	100	0.00	0.0	7.125	0.000	0	0	0	1
PL.33945	PD.4915	C	6 A (CWC)	7.38Y	123.0	0.00	2.00	0.19	0	1	0	100	0.00	0.0	7.192	0.067	1	0	1	1
CP.51	PL.33228	ABC	Cap (300)	7.38Y	123.0	0.00	1.99	0.00	0	0	0	100	0.00	0.0	7.117	0.067	0	0	0	0
PL.33122	PL.33909	A	#2 ACSR	7.40Y	123.4	0.00	1.62	0.00	0	0	0	100	0.00	0.0	6.927	0.068	0	0	0	0
PL.33910	PL.34142	C	#4 ACSR	7.41Y	123.5	0.00	1.50	1.14	1	8	2	97	0.00	0.0	6.671	0.000	0	0	0	1
PD.4928	PL.33910	C	40QA	7.41Y	123.5	0.00	1.50	1.14	3	8	2	97	0.00	0.0	6.671	0.000	0	0	0	1
PL.33911	PD.4928	C	#4 ACSR	7.41Y	123.5	0.00	1.50	1.14	1	8	2	97	0.00	0.0	6.747	0.076	8	2	1	1
PL.54002	PL.54006	C	#4 ACSR	7.42Y	123.7	0.00	1.32	2.11	2	15	4	97	0.00	0.0	6.395	0.000	0	0	0	1
PD.4927	PL.54002	C	40QA	7.42Y	123.7	0.00	1.32	2.11	5	15	4	97	0.00	0.0	6.395	0.000	0	0	0	1
PL.54004	PD.4927	C	#4 ACSR	7.42Y	123.7	0.00	1.32	2.11	2	15	4	97	0.00	0.0	6.446	0.051	15	4	1	1
PL.54007	PL.54005	C	#4 ACSR	7.42Y	123.7	0.01	1.30	4.90	4	35	9	97	0.00	0.0	6.405	0.055	23	6	2	3
PL.54008	PL.54007	C	#2 ACSR	7.42Y	123.7	0.00	1.30	1.65	1	12	3	97	0.00	0.0	6.458	0.053	12	3	1	1
PL.53959	PL.53958	C	#4 ACSR	7.44Y	123.9	0.00	1.07	1.74	1	12	3	97	0.00	0.0	6.033	0.005	0	0	0	2
PD.8115	PL.53959	C	10QA	7.44Y	123.9	0.00	1.07	1.74	0	12	3	97	0.00	0.0	6.033	0.005	0	0	0	2
PL.53960	PD.8115	C	#4 ACSR	7.44Y	123.9	0.00	1.08	1.74	1	12	3	97	0.00	0.0	6.126	0.093	12	3	2	2
PL.57486	PL.58446	B	6 A (CWC)	7.46Y	124.4	0.00	0.61	9.56	7	69	19	96	0.00	0.0	5.353	0.005	0	0	0	12
PD.8370	PL.57486	B	20T	7.46Y	124.4	0.00	0.61	9.56	0	69	19	96	0.00	0.0	5.353	0.005	0	0	0	12
PL.57487	PD.8370	B	6 A (CWC)	7.46Y	124.3	0.06	0.68	9.56	7	69	19	96	0.03	0.0	5.519	0.166	15	4	3	12
PL.57485	PL.57487	B	6 A (CWC)	7.46Y	124.3	0.03	0.71	7.53	5	54	15	96	0.01	0.0	5.612	0.093	0	0	0	9
PL.33810	PL.57485	B	6 A (CWC)	7.45Y	124.2	0.06	0.77	6.40	5	46	12	97	0.02	0.0	5.829	0.217	0	0	0	8
PL.34143	PL.33810	B	6 A (CWC)	7.45Y	124.2	0.00	0.77	0.08	0	1	0	100	0.00	0.0	6.118	0.289	0	0	0	1
PL.34144	PL.34143	B	6 A (CWC)	7.45Y	124.2	0.00	0.77	0.08	0	1	0	100	0.00	0.0	6.357	0.239	1	0	1	1
PL.34145	PL.34144	B	6 A (CWC)	7.45Y	124.2	0.00	0.77	0.00	0	0	0	100	0.00	0.0	6.837	0.480	0	0	0	0
PL.61241	PL.33810	B	6 A (CWC)	7.45Y	124.2	0.02	0.79	6.32	5	45	12	97	0.00	0.0	5.894	0.064	14	4	2	7

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.61240	PL.61241	B	6 A (CWC)	7.45Y	124.2	0.01	0.80	4.35	3	31	8	97	0.00	0.0	5.937	0.043	14	4	1	5
PL.53985	PL.61240	B	6 A (CWC)	7.45Y	124.2	0.01	0.80	2.46	2	18	5	96	0.00	0.0	6.002	0.065	2	0	1	4
PL.33251	PL.53985	B	#1/0 ACSR	7.45Y	124.2	0.00	0.80	1.47	1	11	3	96	0.00	0.0	6.047	0.045	11	3	1	1
PL.33226	PL.53985	B	6 A (CWC)	7.45Y	124.2	0.01	0.81	0.74	1	5	1	98	0.00	0.0	6.273	0.272	3	1	1	2
PL.33227	PL.33226	B	6 A (CWC)	7.45Y	124.2	0.00	0.81	0.28	0	2	1	89	0.00	0.0	6.342	0.069	2	1	1	1
PL.33808	PL.57485	B	#2 ACSR	7.46Y	124.3	0.01	0.72	1.13	1	8	2	97	0.00	0.0	5.773	0.161	0	0	0	1
PL.33809	PL.33808	B	#2 ACSR	7.46Y	124.3	0.00	0.72	1.13	1	8	2	97	0.00	0.0	5.829	0.056	8	2	1	1
PL.34309	PL.34308	A	#4 ACSR	7.49Y	124.8	0.00	0.24	8.09	6	58	16	96	0.00	0.0	4.838	0.001	0	0	0	7
PD.4912	PL.34309	A	40QA	7.49Y	124.8	0.00	0.24	8.09	20	58	16	96	0.00	0.0	4.838	0.001	0	0	0	7
PL.34310	PD.4912	A	#4 ACSR	7.48Y	124.7	0.02	0.26	8.09	6	58	16	96	0.01	0.0	4.913	0.075	25	7	2	7
PL.34311	PL.34310	A	#4 ACSR	7.48Y	124.7	0.01	0.27	4.67	4	34	9	97	0.00	0.0	4.965	0.051	13	4	2	5
PL.54013	PL.34311	A	#4 ACSR	7.48Y	124.7	0.01	0.27	2.82	2	20	5	97	0.00	0.0	5.055	0.091	20	5	3	3
PL.34302	PL.64332	C	#4 ACSR	7.51Y	125.1	0.00	-0.09	0.00	0	0	0	100	0.00	0.0	4.435	0.000	0	0	0	0
PD.4955	PL.34302	C	50QA	7.51Y	125.1	0.00	-0.09	0.00	0	0	0	100	0.00	0.0	4.435	0.000	0	0	0	0
PL.34304	PD.4955	C	#4 ACSR	7.51Y	125.1	0.00	-0.09	0.00	0	0	0	100	0.00	0.0	4.514	0.079	0	0	0	0
PL.61228	PL.33455	B	6 A (CWC)	7.52Y	125.3	0.00	-0.32	12.99	9	94	26	96	0.00	0.0	4.157	0.001	0	0	0	13
PD.9108	PL.61228	B	50QA	7.52Y	125.3	0.00	-0.32	12.99	26	94	26	96	0.00	0.0	4.157	0.001	0	0	0	13
PL.61226	PD.9108	B	6 A (CWC)	7.51Y	125.2	0.12	-0.20	12.99	9	94	26	96	0.08	0.1	4.379	0.222	17	5	2	13
PL.61227	PL.61226	B	6 A (CWC)	7.51Y	125.2	0.00	-0.19	0.85	1	6	2	95	0.00	0.0	4.430	0.051	6	2	2	2
PL.61229	PL.61226	B	6 A (CWC)	7.51Y	125.1	0.06	-0.14	9.75	7	71	19	97	0.03	0.0	4.513	0.135	2	1	1	9
PL.34300	PL.61229	B	6 A (CWC)	7.51Y	125.1	0.02	-0.12	9.49	7	69	19	96	0.01	0.0	4.561	0.047	0	0	0	8
PL.34301	PL.34300	B	6 A (CWC)	7.51Y	125.1	0.02	-0.09	9.49	7	69	19	96	0.01	0.0	4.615	0.054	10	3	2	8
PL.55200	PL.34301	B	6 A (CWC)	7.50Y	125.0	0.05	-0.05	8.15	6	59	16	97	0.02	0.0	4.759	0.144	13	3	2	6
PL.55201	PL.55200	B	6 A (CWC)	7.50Y	125.0	0.01	-0.04	6.39	5	46	13	96	0.00	0.0	4.810	0.051	46	13	4	4
PL.55199	PL.55201	B	6 A (CWC)	7.50Y	125.0	0.00	-0.04	0.00	0	0	0	100	0.00	0.0	4.863	0.053	0	0	0	0
PL.33634	PL.34300	B	#4 ACSR	7.51Y	125.1	0.00	-0.12	0.00	0	0	0	100	0.00	0.0	4.618	0.057	0	0	0	0
PL.34210	PL.34209	C	#4 ACSR	7.11Y	118.5	0.00	6.46	0.58	0	4	1	97	0.00	0.0	3.885	0.000	0	0	0	1
PD.4925	PL.34210	C	50QA	7.11Y	118.5	0.00	6.46	0.58	1	4	1	97	0.00	0.0	3.885	0.000	0	0	0	1
PL.34211	PD.4925	C	#4 ACSR	7.11Y	118.5	0.00	6.47	0.58	0	4	1	97	0.00	0.0	3.938	0.053	4	1	1	1
PL.64850	PL.53664	A	#4 ACSR	7.11Y	118.6	0.00	6.44	12.68	10	87	24	96	0.00	0.0	3.864	0.001	0	0	0	16
PD.4910	PL.64850	A	50QA	7.11Y	118.6	0.00	6.44	12.68	25	87	24	96	0.00	0.0	3.864	0.001	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.53893	PD.4910	A	#4 ACSR	7.11Y	118.6	0.01	6.45	12.68	10	87	24	96	0.00	0.0	3.874	0.010	3	1	3	16
PL.53892	PL.53893	A	#4 ACSR	7.11Y	118.5	0.04	6.49	12.20	9	84	23	96	0.03	0.0	3.958	0.084	3	1	2	13
PL.33422	PL.53892	A	#4 ACSR	7.11Y	118.5	0.03	6.53	11.81	9	81	22	97	0.02	0.0	4.021	0.064	0	0	0	11
PL.33426	PL.33422	A	#4 ACSR	7.11Y	118.5	0.00	6.53	1.29	1	9	2	98	0.00	0.0	4.045	0.024	9	2	2	2
PL.53886	PL.33422	A	#4 ACSR	7.11Y	118.5	0.01	6.53	3.47	3	24	6	97	0.00	0.0	4.112	0.091	24	6	3	3
PL.33421	PL.33422	A	#4 ACSR	7.11Y	118.5	0.02	6.54	7.06	5	48	13	97	0.01	0.0	4.084	0.063	0	0	0	6
PL.53972	PL.33421	A	#4 ACSR	7.11Y	118.5	0.00	6.55	6.21	5	43	12	96	0.00	0.0	4.110	0.025	29	8	3	5
PL.53993	PL.53972	A	#4 ACSR	7.11Y	118.4	0.00	6.55	1.97	2	14	4	96	0.00	0.0	4.207	0.097	14	4	2	2
PL.53973	PL.53972	A	#4 ACSR	7.11Y	118.5	0.00	6.55	0.00	0	0	0	100	0.00	0.0	4.132	0.023	0	0	0	0
PL.33586	PL.33421	A	#4 ACSR	7.11Y	118.5	0.00	6.55	0.85	1	6	2	95	0.00	0.0	4.141	0.057	0	0	0	1
PL.33587	PL.33586	A	#4 ACSR	7.11Y	118.5	0.00	6.55	0.85	1	6	2	95	0.00	0.0	4.226	0.085	6	2	1	1
PL.33255	PL.33587	A	#4 ACSR	7.11Y	118.5	0.00	6.55	0.00	0	0	0	100	0.00	0.0	4.289	0.063	0	0	0	0
PL.62693	PL.33587	A	#4 ACSR	7.11Y	118.5	0.00	6.55	0.00	0	0	0	100	0.00	0.0	4.264	0.037	0	0	0	0
PL.62694	PL.62693	A	#4 ACSR	7.11Y	118.5	0.00	6.55	0.00	0	0	0	100	0.00	0.0	4.325	0.061	0	0	0	0
PL.53665	PL.53950	B	#2 ACSR	7.12Y	118.7	0.00	6.35	0.47	0	3	1	95	0.00	0.0	3.784	0.002	0	0	0	2
PD.8113	PL.53665	B	15QA	7.12Y	118.7	0.00	6.35	0.47	0	3	1	95	0.00	0.0	3.784	0.002	0	0	0	2
PL.53878	PD.8113	B	#2 ACSR	7.12Y	118.7	0.00	6.35	0.47	0	3	1	95	0.00	0.0	3.791	0.008	2	1	1	2
PL.53877	PL.53878	B	#2 ACSR	7.12Y	118.7	0.00	6.35	0.19	0	1	0	100	0.00	0.0	3.816	0.025	1	0	1	1
PL.53666	PL.53950	B	#1/0 ACSR	7.12Y	118.7	0.00	6.35	0.91	0	6	2	95	0.00	0.0	3.784	0.003	0	0	0	2
PD.8114	PL.53666	B	15QA	7.12Y	118.7	0.00	6.35	0.91	0	6	2	95	0.00	0.0	3.784	0.003	0	0	0	2
PL.56756	PD.8114	B	#1/0 ACSR	7.12Y	118.7	0.00	6.35	0.91	0	6	2	95	0.00	0.0	3.832	0.047	6	2	2	2
PL.33518	PL.33462	A	6 A (CWC)	7.12Y	118.7	0.00	6.27	2.12	2	15	4	97	0.00	0.0	3.758	0.045	15	4	3	3
PL.33214	PL.34207	C	6 A (CWC)	7.13Y	118.8	0.00	6.17	5.22	4	36	10	96	0.00	0.0	3.625	0.001	0	0	0	7
PD.4907	PL.33214	C	50QA	7.13Y	118.8	0.00	6.17	5.22	10	36	10	96	0.00	0.0	3.625	0.001	0	0	0	7
PL.33215	PD.4907	C	6 A (CWC)	7.13Y	118.8	0.00	6.17	5.22	4	36	10	96	0.00	0.0	3.640	0.015	16	4	3	7
PL.64870	PL.33215	C	6 A (CWC)	7.13Y	118.8	0.01	6.18	2.83	2	19	5	97	0.00	0.0	3.759	0.119	8	2	1	4
PL.33106	PL.64870	C	6 A (CWC)	7.13Y	118.8	0.00	6.18	1.65	1	11	3	96	0.00	0.0	3.800	0.041	8	2	1	3
PL.57881	PL.33106	C	6 A (CWC)	7.13Y	118.8	0.00	6.19	0.52	0	4	1	97	0.00	0.0	3.846	0.046	4	1	2	2
PL.33475	PL.33469	C	6 A (CWC)	7.14Y	119.0	0.00	5.99	0.82	1	6	2	95	0.00	0.0	3.478	0.000	0	0	0	2
PD.4906	PL.33475	C	50QA	7.14Y	119.0	0.00	5.99	0.82	2	6	2	95	0.00	0.0	3.478	0.000	0	0	0	2
PL.33315	PD.4906	C	6 A (CWC)	7.14Y	119.0	0.00	5.99	0.82	1	6	2	95	0.00	0.0	3.511	0.033	6	2	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.58878	PL.34184	ABC	#1/0 ACSR	7.16Y	119.4	0.00	5.60	0.00	0	0	0	100	0.00	0.0	3.196	0.008	0	0	0	0
PD.8482-B	PL.58878	ABC	Open	7.16Y	119.4	0.00	5.60	0.00	0	0	0	100	0.00	0.0	3.196	0.008	0	0	0	0
PL.34182	PL.34181	A	6 A (CWC)	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	3.042	0.001	0	0	0	1
PD.4975	PL.34182	A	50QA	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	3.042	0.001	0	0	0	1
PL.34183	PD.4975	A	6 A (CWC)	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	3.139	0.097	0	0	1	1
PL.33204	PL.34178	A	#4 ACSR	7.18Y	119.7	0.00	5.28	3.05	2	21	6	96	0.00	0.0	2.977	0.000	0	0	0	5
PD.4895	PL.33204	A	50QA	7.18Y	119.7	0.00	5.28	3.05	6	21	6	96	0.00	0.0	2.977	0.000	0	0	0	5
PL.33205	PD.4895	A	#4 ACSR	7.18Y	119.7	0.00	5.28	3.05	2	21	6	96	0.00	0.0	3.007	0.030	14	4	2	5
PL.34179	PL.33205	A	6 A (CWC)	7.18Y	119.7	0.00	5.28	0.96	1	7	2	96	0.00	0.0	3.065	0.057	4	1	2	3
PL.34180	PL.34179	A	6 A (CWC)	7.18Y	119.7	0.00	5.28	0.34	0	2	1	89	0.00	0.0	3.155	0.091	2	1	1	1
PL.34175	PL.33353	B	6 A (CWC)	7.20Y	120.0	0.00	4.95	2.18	2	15	4	97	0.00	0.0	2.768	0.001	0	0	0	3
PD.4939	PL.34175	B	50QA	7.20Y	120.0	0.00	4.95	2.18	4	15	4	97	0.00	0.0	2.768	0.001	0	0	0	3
PL.34176	PD.4939	B	6 A (CWC)	7.20Y	120.0	0.00	4.95	2.18	2	15	4	97	0.00	0.0	2.776	0.008	5	1	1	3
PL.33349	PL.34176	B	6 A (CWC)	7.20Y	120.0	0.01	4.96	1.50	1	10	3	96	0.00	0.0	2.885	0.109	6	2	1	2
PL.33350	PL.33349	B	6 A (CWC)	7.20Y	120.0	0.00	4.96	0.61	0	4	1	97	0.00	0.0	2.940	0.055	4	1	1	1
PL.55598	PL.59083	C	#4 ACSR	7.24Y	120.6	0.00	4.39	2.70	2	19	5	97	0.00	0.0	2.418	0.003	0	0	0	2
PD.8213	PL.55598	C	50QA	7.24Y	120.6	0.00	4.39	2.70	5	19	5	97	0.00	0.0	2.418	0.003	0	0	0	2
PL.55599	PD.8213	C	#4 ACSR	7.24Y	120.6	0.00	4.39	2.70	2	19	5	97	0.00	0.0	2.436	0.018	2	0	1	2
PL.62782	PL.55599	C	#1/0 ACSR	7.24Y	120.6	0.00	4.39	2.45	1	17	5	96	0.00	0.0	2.436	0.000	0	0	0	1
PL.62783	PL.62782	C	#1/0 ACSR	7.24Y	120.6	0.00	4.39	2.45	1	17	5	96	0.00	0.0	2.470	0.034	17	5	1	1
PL.55191	PL.55190	A	#4 ACSR	7.25Y	120.8	0.00	4.23	1.84	1	13	3	97	0.00	0.0	2.326	0.004	0	0	0	1
PD.8211	PL.55191	A	20T	7.25Y	120.8	0.00	4.23	1.84	0	13	3	97	0.00	0.0	2.326	0.004	0	0	0	1
PL.55597	PD.8211	A	#4 ACSR	7.25Y	120.8	0.00	4.24	1.84	1	13	3	97	0.00	0.0	2.384	0.058	13	3	1	1
PL.55188	PL.55187	B	6 A (CWC)	7.27Y	121.1	0.00	3.86	8.38	6	59	16	97	0.00	0.0	2.101	0.000	0	0	0	11
PD.4991	PL.55188	B	50QA	7.27Y	121.1	0.00	3.86	8.38	17	59	16	97	0.00	0.0	2.101	0.000	0	0	0	11
PL.33839	PD.4991	B	6 A (CWC)	7.27Y	121.1	0.01	3.87	8.38	6	59	16	97	0.00	0.0	2.118	0.016	0	0	0	11
PL.33546	PL.33839	B	#4 ACSR	7.27Y	121.1	0.00	3.87	0.58	0	4	1	97	0.00	0.0	2.154	0.037	0	0	0	1
PL.33547	PL.33546	B	#4 ACSR	7.27Y	121.1	0.00	3.87	0.58	0	4	1	97	0.00	0.0	2.177	0.023	4	1	1	1
PL.53770	PL.33839	B	6 A (CWC)	7.27Y	121.1	0.01	3.88	7.80	6	55	15	96	0.00	0.0	2.147	0.029	2	0	1	10
PL.53771	PL.53770	B	6 A (CWC)	7.27Y	121.1	0.01	3.89	7.55	5	53	14	97	0.00	0.0	2.179	0.033	0	0	0	9
PL.55588	PL.53771	B	6 A (CWC)	7.27Y	121.1	0.00	3.89	7.55	5	53	14	97	0.00	0.0	2.194	0.015	2	1	1	9

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.55590	PL.55588	B	6 A (CWC)	7.27Y	121.1	0.02	3.91	7.21	5	51	14	96	0.01	0.0	2.253	0.059	0	0	0	7
PL.55592	PL.55590	B	#1/0 ACSR	7.27Y	121.1	0.00	3.91	1.48	1	10	3	96	0.00	0.0	2.270	0.017	10	3	1	1
PL.55591	PL.55590	B	6 A (CWC)	7.26Y	121.1	0.02	3.93	5.73	4	40	11	96	0.01	0.0	2.337	0.085	8	2	1	6
PL.55589	PL.55591	B	6 A (CWC)	7.26Y	121.1	0.01	3.94	4.54	3	32	9	96	0.00	0.0	2.391	0.053	0	0	0	5
PL.53818	PL.55589	B	#2 ACSR	7.26Y	121.1	0.00	3.94	2.82	2	20	5	97	0.00	0.0	2.425	0.034	20	5	2	2
PL.53819	PL.53818	B	#2 ACSR	7.26Y	121.1	0.00	3.94	0.00	0	0	0	100	0.00	0.0	2.449	0.024	0	0	0	0
PL.33570	PL.55589	B	6 A (CWC)	7.26Y	121.0	0.01	3.95	1.73	1	12	3	97	0.00	0.0	2.535	0.145	0	0	0	3
PL.53804	PL.33570	B	#1/0 ACSR	7.26Y	121.0	0.00	3.95	0.90	0	6	2	95	0.00	0.0	2.575	0.040	6	2	2	2
PL.33571	PL.33570	B	6 A (CWC)	7.26Y	121.0	0.00	3.95	0.00	0	0	0	100	0.00	0.0	2.590	0.054	0	0	0	0
PL.53814	PL.33570	B	6 A (CWC)	7.26Y	121.0	0.00	3.95	0.00	0	0	0	100	0.00	0.0	2.595	0.060	0	0	0	0
PL.53815	PL.53814	B	6 A (CWC)	7.26Y	121.0	0.00	3.95	0.00	0	0	0	100	0.00	0.0	2.631	0.035	0	0	0	0
PL.53908	PL.33570	B	#2 ACSR	7.26Y	121.0	0.00	3.95	0.83	0	6	2	95	0.00	0.0	2.561	0.026	6	2	1	1
PL.55587	PL.55588	B	6 A (CWC)	7.27Y	121.1	0.00	3.89	0.01	0	0	0	100	0.00	0.0	2.237	0.043	0	0	1	1
PL.33300	PL.53179	C	#4 ACSR	7.31Y	121.8	0.00	3.21	1.15	1	8	2	97	0.00	0.0	1.739	0.001	0	0	0	2
PD.4958	PL.33300	C	50QA	7.31Y	121.8	0.00	3.21	1.15	2	8	2	97	0.00	0.0	1.739	0.001	0	0	0	2
PL.53180	PD.4958	C	#4 ACSR	7.31Y	121.8	0.00	3.21	1.15	1	8	2	97	0.00	0.0	1.819	0.080	8	2	1	2
PL.53181	PL.53180	C	#4 ACSR	7.31Y	121.8	0.00	3.21	0.07	0	1	0	100	0.00	0.0	1.879	0.059	1	0	1	1
PL.55561	PL.55184	A	6 A (CWC)	7.33Y	122.1	0.00	2.90	1.22	1	9	2	98	0.00	0.0	1.570	0.003	0	0	0	3
PD.8203	PL.55561	A	50QA	7.33Y	122.1	0.00	2.90	1.22	2	9	2	98	0.00	0.0	1.570	0.003	0	0	0	3
PL.55562	PD.8203	A	6 A (CWC)	7.33Y	122.1	0.01	2.90	1.22	1	9	2	98	0.00	0.0	1.664	0.093	0	0	0	3
PL.55563	PL.55562	A	6 A (CWC)	7.33Y	122.1	0.00	2.90	1.22	1	9	2	98	0.00	0.0	1.716	0.053	9	2	1	3
PL.53178	PL.55563	A	6 A (CWC)	7.33Y	122.1	0.00	2.90	0.01	0	0	0	100	0.00	0.0	1.747	0.031	0	0	0	2
PL.53177	PL.53178	A	6 A (CWC)	7.33Y	122.1	0.00	2.90	0.01	0	0	0	100	0.00	0.0	1.791	0.044	0	0	1	1
PL.61204	PL.53178	A	#1/0 ACSR	7.33Y	122.1	0.00	2.90	0.00	0	0	0	100	0.00	0.0	1.903	0.156	0	0	1	1
PL.55559	PL.55557	C	#4 ACSR	7.34Y	122.3	0.00	2.65	2.54	2	18	5	96	0.00	0.0	1.441	0.005	0	0	0	5
PD.8202	PL.55559	C	50QA	7.34Y	122.3	0.00	2.65	2.54	5	18	5	96	0.00	0.0	1.441	0.005	0	0	0	5
PL.55560	PD.8202	C	#4 ACSR	7.34Y	122.3	0.01	2.66	2.54	2	18	5	96	0.00	0.0	1.508	0.067	10	3	3	5
PL.55558	PL.55560	C	#4 ACSR	7.34Y	122.3	0.00	2.66	1.18	1	8	2	97	0.00	0.0	1.561	0.053	8	2	2	2
PL.55551	PL.55550	C	#4 ACSR	7.35Y	122.6	0.00	2.44	1.99	2	14	4	96	0.00	0.0	1.326	0.003	0	0	0	1
PD.8200	PL.55551	C	50QA	7.35Y	122.6	0.00	2.44	1.99	4	14	4	96	0.00	0.0	1.326	0.003	0	0	0	1
PL.55549	PD.8200	C	#4 ACSR	7.35Y	122.6	0.00	2.44	1.99	2	14	4	96	0.00	0.0	1.377	0.052	14	4	1	1

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33635	PL.63856	B	6 A (CWC)	7.38Y	123.0	0.00	1.98	0.71	1	5	1	98	0.00	0.0	1.255	0.172	5	1	2	2
PL.63857	PL.63858	ABC	#3/0 ACSR	7.40Y	123.3	0.04	1.69	89.65	30	1914	547	96	0.46	0.0	0.951	0.034	0	0	0	279
PL.63851	PL.63857	ABC	#3/0 ACSR	7.38Y	123.0	0.30	1.99	89.65	30	1914	546	96	3.55	0.2	1.215	0.264	3	1	1	279
PL.34315	PL.63851	ABC	#3/0 ACSR	7.38Y	123.0	0.05	2.03	89.51	30	1907	540	96	0.56	0.0	1.257	0.042	3	1	1	278
PL.34319	PL.34315	ABC	#3/0 ACSR	7.37Y	122.8	0.13	2.17	89.39	30	1904	539	96	1.59	0.1	1.375	0.119	0	0	0	277
PL.34316	PL.34319	ABC	#3/0 ACSR	7.37Y	122.8	0.07	2.23	88.07	29	1874	529	96	0.78	0.0	1.435	0.060	0	0	0	269
PL.34317	PL.34316	ABC	#3/0 ACSR	7.36Y	122.6	0.13	2.37	88.07	29	1873	528	96	1.57	0.1	1.556	0.121	0	0	0	269
PL.34318	PL.34317	ABC	#3/0 ACSR	7.35Y	122.6	0.06	2.43	87.81	29	1866	524	96	0.71	0.0	1.611	0.055	0	0	0	268
PL.33324	PL.34318	C	#4 ACSR	7.35Y	122.6	0.00	2.43	1.36	1	10	3	96	0.00	0.0	1.611	0.001	0	0	0	2
PD.4959	PL.33324	C	75QA	7.35Y	122.6	0.00	2.43	1.36	2	10	3	96	0.00	0.0	1.611	0.001	0	0	0	2
PL.53174	PD.4959	C	#4 ACSR	7.35Y	122.6	0.00	2.43	1.36	1	10	3	96	0.00	0.0	1.684	0.073	0	0	0	2
PL.53175	PL.53174	C	#4 ACSR	7.35Y	122.6	0.00	2.44	1.36	1	10	3	96	0.00	0.0	1.720	0.036	10	3	2	2
PL.33815	PL.34318	ABC	#3/0 ACSR	7.35Y	122.5	0.08	2.51	87.35	29	1856	520	96	0.92	0.0	1.683	0.072	0	0	0	266
PL.33325	PL.33815	ABC	#3/0 ACSR	7.35Y	122.5	0.00	2.51	87.35	29	1855	519	96	0.01	0.0	1.684	0.001	0	0	0	266
PD.4943	PL.33325	ABC	140L	7.35Y	122.5	0.00	2.51	87.35	62	1855	519	96	0.00	0.0	1.684	0.001	0	0	0	266
PL.61192	PD.4943	ABC	#3/0 ACSR	7.35Y	122.4	0.06	2.57	87.35	29	1855	519	96	0.65	0.0	1.735	0.051	0	0	0	266
PL.61193	PL.61192	ABC	#3/0 ACSR	7.34Y	122.3	0.16	2.72	87.24	29	1852	517	96	1.82	0.1	1.877	0.143	0	0	0	265
RG.37	PL.61193	ABC	114.3 KVA	7.48Y	124.6	-2.34	0.39	87.24	58	1850	515	96	percent Boost= 1.88 Tap= 3.0							265
PL.33451	RG.37	ABC	#3/0 ACSR	7.48Y	124.6	0.00	0.39	85.61	29	1850	515	96	0.00	0.0	1.877	0.000	0	0	0	265
PL.59100	PL.33451	ABC	#3/0 ACSR	7.47Y	124.5	0.15	0.53	85.61	29	1850	515	96	1.65	0.1	2.013	0.136	32	9	3	265
PL.59101	PL.59100	ABC	#3/0 ACSR	7.47Y	124.4	0.03	0.56	65.96	22	1424	396	96	0.27	0.0	2.050	0.037	14	4	1	205
PL.33446	PL.59101	ABC	#3/0 ACSR	7.46Y	124.4	0.04	0.60	65.31	22	1409	391	96	0.31	0.0	2.093	0.043	0	0	0	204
PL.33326	PL.33446	ABC	#3/0 ACSR	7.46Y	124.4	0.00	0.60	65.31	22	1409	391	96	0.02	0.0	2.096	0.003	0	0	0	204
PL.33327	PL.33326	ABC	#3/0 ACSR	7.46Y	124.4	0.01	0.61	65.31	22	1409	391	96	0.05	0.0	2.104	0.008	1	0	1	204
PL.33328	PL.33327	ABC	#3/0 ACSR	7.46Y	124.3	0.07	0.67	65.27	22	1408	391	96	0.59	0.0	2.186	0.082	0	0	0	203
PL.34334	PL.33328	B	6 A (CWC)	7.46Y	124.3	0.00	0.68	10.53	8	76	21	96	0.00	0.0	2.189	0.003	0	0	0	11
PD.4945	PL.34334	B	50L	7.46Y	124.3	0.00	0.68	10.53	21	76	21	96	0.00	0.0	2.189	0.003	0	0	0	11
PL.34335	PD.4945	B	6 A (CWC)	7.46Y	124.3	0.01	0.69	10.53	8	76	21	96	0.01	0.0	2.216	0.027	10	3	1	11
PL.33151	PL.34335	B	6 A (CWC)	7.46Y	124.3	0.01	0.69	9.21	7	66	18	96	0.00	0.0	2.228	0.012	0	0	0	10
PD.4950-A	PL.33151	B	Closed	7.46Y	124.3	0.00	0.69	9.21	0	66	18	96	0.00	0.0	2.228	0.012	0	0	0	10
PD.4950-B	PD.4950-A	B	Closed	7.46Y	124.3	0.00	0.69	9.21	0	66	18	96	0.00	0.0	2.228	0.012	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.34173	PD.4950-B	B	6 A (CWC)	7.45Y	124.1	0.22	0.92	9.21	7	66	18	96	0.11	0.2	2.754	0.526	0	0	0	10
PL.34033	PL.34173	B	6 A (CWC)	7.44Y	124.0	0.06	0.97	8.73	6	63	17	97	0.03	0.0	2.895	0.141	0	0	0	9
PL.34034	PL.34033	B	#4 ACSR	7.44Y	124.0	0.00	0.97	0.01	0	0	0	100	0.00	0.0	3.108	0.213	0	0	0	1
PL.33332	PL.34034	B	#4 ACSR	7.44Y	124.0	0.00	0.97	0.01	0	0	0	100	0.00	0.0	3.198	0.090	0	0	1	1
PL.34032	PL.34033	B	6 A (CWC)	7.44Y	123.9	0.09	1.06	8.71	6	63	17	97	0.04	0.1	3.114	0.219	0	0	0	8
PL.55544	PL.34032	B	6 A (CWC)	7.44Y	123.9	0.02	1.07	5.42	4	39	11	96	0.00	0.0	3.175	0.062	0	0	0	4
PL.55543	PL.55544	B	6 A (CWC)	7.44Y	123.9	0.01	1.08	5.42	4	39	11	96	0.00	0.0	3.210	0.034	0	0	0	4
PL.33428	PL.55543	B	6 A (CWC)	7.44Y	123.9	0.00	1.08	1.14	1	8	2	97	0.00	0.0	3.242	0.032	8	2	1	1
PL.64435	PL.55543	B	6 A (CWC)	7.43Y	123.9	0.03	1.11	4.29	3	31	8	97	0.01	0.0	3.341	0.132	0	0	0	3
PL.64436	PL.64435	B	6 A (CWC)	7.43Y	123.9	0.00	1.11	1.10	1	8	2	97	0.00	0.0	3.367	0.025	8	2	1	1
PL.64437	PL.64435	B	#1/0 ACSR	7.43Y	123.9	0.01	1.11	3.19	1	23	6	97	0.00	0.0	3.410	0.068	0	0	0	2
PL.64438	PL.64437	B	#1/0 ACSR	7.43Y	123.9	0.00	1.11	1.49	1	11	3	96	0.00	0.0	3.467	0.057	11	3	1	1
PL.64439	PL.64437	B	#1/0 ACSR	7.43Y	123.9	0.00	1.11	1.69	1	12	3	97	0.00	0.0	3.509	0.099	12	3	1	1
PL.33516	PL.34032	B	6 A (CWC)	7.44Y	123.9	0.01	1.07	3.29	2	24	6	97	0.00	0.0	3.198	0.084	14	4	2	4
PL.33184	PL.33516	B	#4 ACSR	7.44Y	123.9	0.00	1.07	1.30	1	9	3	95	0.00	0.0	3.238	0.040	9	2	1	2
PL.33185	PL.33184	B	#4 ACSR	7.44Y	123.9	0.00	1.07	0.02	0	0	0	100	0.00	0.0	3.285	0.047	0	0	1	1
PL.33417	PL.33516	B	6 A (CWC)	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	3.206	0.008	0	0	0	0
PD.4952-A	PL.33417	B	Open	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	3.206	0.008	0	0	0	0
PL.34174	PL.34173	B	6 A (CWC)	7.45Y	124.1	0.00	0.92	0.49	0	4	1	97	0.00	0.0	2.859	0.104	4	1	1	1
PL.33861	PL.34174	B	6 A (CWC)	7.45Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	3.071	0.212	0	0	0	0
PL.34336	PL.33328	ABC	#3/0 ACSR	7.46Y	124.3	0.07	0.75	61.76	21	1332	369	96	0.62	0.0	2.282	0.096	0	0	0	192
PL.53422	PL.34336	ABC	#3/0 ACSR	7.45Y	124.2	0.08	0.83	61.22	20	1320	365	96	0.63	0.0	2.381	0.100	5	1	1	191
PL.53423	PL.53422	ABC	#3/0 ACSR	7.45Y	124.1	0.06	0.88	61.01	20	1314	363	96	0.46	0.0	2.455	0.074	5	1	1	190
PL.33560	PL.53423	ABC	#3/0 ACSR	7.44Y	124.0	0.08	0.96	60.79	20	1309	361	96	0.63	0.0	2.557	0.101	8	2	1	189
PL.33142	PL.33560	A	6 A (CWC)	7.44Y	124.0	0.00	0.96	1.00	1	7	2	96	0.00	0.0	2.557	0.001	0	0	0	2
PD.4968	PL.33142	A	50QA	7.44Y	124.0	0.00	0.96	1.00	2	7	2	96	0.00	0.0	2.557	0.001	0	0	0	2
PL.53420	PD.4968	A	6 A (CWC)	7.44Y	124.0	0.00	0.96	1.00	1	7	2	96	0.00	0.0	2.639	0.081	7	2	1	2
PL.53421	PL.53420	A	#2 ACSR	7.44Y	124.0	0.00	0.96	0.03	0	0	0	100	0.00	0.0	2.721	0.082	0	0	1	1
PL.33157	PL.33560	ABC	#3/0 ACSR	7.44Y	124.0	0.04	1.00	60.09	20	1293	356	96	0.30	0.0	2.606	0.049	0	0	0	186
PL.33561	PL.33157	ABC	#3/0 ACSR	7.43Y	123.9	0.09	1.09	60.08	20	1293	356	96	0.76	0.1	2.731	0.126	3	1	1	185
PL.53530	PL.33561	ABC	#3/0 ACSR	7.43Y	123.8	0.07	1.16	59.94	20	1289	354	96	0.56	0.0	2.824	0.093	7	2	2	184

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.53531	PL.53530	ABC	#3/0 ACSR	7.43Y	123.8	0.08	1.24	59.60	20	1281	351	96	0.62	0.0	2.929	0.104	2	0	1	182
PL.33562	PL.53531	ABC	#3/0 ACSR	7.42Y	123.7	0.05	1.29	59.53	20	1279	350	96	0.36	0.0	2.990	0.061	0	0	0	181
PL.33563	PL.33562	C	#4 ACSR	7.42Y	123.7	0.00	1.29	0.10	0	1	0	100	0.00	0.0	2.993	0.003	0	0	0	2
PD.5005	PL.33563	C	50QA	7.42Y	123.7	0.00	1.29	0.10	0	1	0	100	0.00	0.0	2.993	0.003	0	0	0	2
PL.33564	PD.5005	C	#4 ACSR	7.42Y	123.7	0.00	1.29	0.10	0	1	0	100	0.00	0.0	3.211	0.219	1	0	2	2
PL.33166	PL.33562	ABC	#4 ACSR	7.42Y	123.7	0.03	1.32	21.92	17	471	128	96	0.13	0.0	3.031	0.041	0	0	0	63
PL.33645	PL.33166	ABC	#4 ACSR	7.42Y	123.7	0.00	1.32	21.92	17	471	128	96	0.00	0.0	3.031	0.000	0	0	0	63
PD.4946	PL.33645	ABC	35L	7.42Y	123.7	0.00	1.32	21.92	63	471	128	96	0.00	0.0	3.031	0.000	0	0	0	63
PL.33565	PD.4946	ABC	#4 ACSR	7.42Y	123.6	0.06	1.38	21.92	17	471	128	96	0.23	0.0	3.105	0.074	0	0	0	63
PL.33566	PL.33565	ABC	#4 ACSR	7.41Y	123.6	0.05	1.44	21.92	17	471	128	96	0.20	0.0	3.169	0.064	0	0	0	63
PL.33567	PL.33566	ABC	#4 ACSR	7.41Y	123.5	0.05	1.49	21.48	17	461	125	97	0.20	0.0	3.237	0.068	10	3	1	61
PL.33433	PL.33567	A	6 A (CWC)	7.41Y	123.5	0.00	1.49	7.46	5	53	14	97	0.00	0.0	3.242	0.005	0	0	0	5
PD.4961	PL.33433	A	40QA	7.41Y	123.5	0.00	1.49	7.46	19	53	14	97	0.00	0.0	3.242	0.005	0	0	0	5
PL.33646	PD.4961	A	6 A (CWC)	7.41Y	123.5	0.03	1.52	7.46	5	53	14	97	0.01	0.0	3.336	0.095	0	0	0	5
PL.62740	PL.33646	A	#4/0 ACSR	7.41Y	123.5	0.00	1.52	2.13	1	15	4	97	0.00	0.0	3.370	0.034	9	2	1	2
PL.62741	PL.62740	A	#4/0 ACSR	7.41Y	123.5	0.00	1.52	0.92	0	7	2	96	0.00	0.0	3.424	0.054	7	2	1	1
PL.33884	PL.33646	A	6 A (CWC)	7.41Y	123.5	0.01	1.54	5.33	4	38	10	97	0.00	0.0	3.410	0.074	15	4	1	3
PL.61222	PL.33884	A	6 A (CWC)	7.41Y	123.5	0.01	1.55	3.25	2	23	6	97	0.00	0.0	3.483	0.073	12	3	1	2
PL.61223	PL.61222	A	6 A (CWC)	7.41Y	123.5	0.00	1.55	1.57	1	11	3	96	0.00	0.0	3.507	0.023	11	3	1	1
PL.53583	PL.33567	ABC	#4 ACSR	7.39Y	123.2	0.30	1.79	18.54	14	398	108	97	0.93	0.2	3.657	0.420	0	0	0	55
PL.53584	PL.53583	ABC	#4 ACSR	7.39Y	123.1	0.11	1.90	18.07	14	387	105	97	0.35	0.1	3.823	0.166	0	0	0	54
PL.55574	PL.53584	B	#4 ACSR	7.39Y	123.1	0.00	1.90	2.75	2	20	5	97	0.00	0.0	3.826	0.003	0	0	0	3
PD.8207	PL.55574	B	40QA	7.39Y	123.1	0.00	1.90	2.75	7	20	5	97	0.00	0.0	3.826	0.003	0	0	0	3
PL.55575	PD.8207	B	#4 ACSR	7.39Y	123.1	0.00	1.90	2.75	2	20	5	97	0.00	0.0	3.842	0.016	1	0	1	3
PL.55573	PL.55575	B	#4 ACSR	7.38Y	123.1	0.03	1.93	2.62	2	19	5	97	0.00	0.0	4.117	0.275	0	0	0	2
PL.53580	PL.55573	B	#4 ACSR	7.38Y	123.1	0.00	1.93	0.90	1	6	2	95	0.00	0.0	4.150	0.033	6	2	1	1
PL.55576	PL.55573	B	#4 ACSR	7.38Y	123.1	0.01	1.95	1.72	1	12	3	97	0.00	0.0	4.284	0.167	0	0	0	1
PL.55577	PL.55576	B	#4 ACSR	7.38Y	123.0	0.01	1.95	1.72	1	12	3	97	0.00	0.0	4.417	0.132	12	3	1	1
PL.55570	PL.53584	ABC	#4 ACSR	7.38Y	123.1	0.02	1.92	17.15	13	367	99	97	0.07	0.0	3.859	0.036	1	0	1	51
PL.55571	PL.55570	B	#4 ACSR	7.38Y	123.1	0.00	1.92	3.62	3	26	7	97	0.00	0.0	3.862	0.003	0	0	0	2
PD.8206	PL.55571	B	40QA	7.38Y	123.1	0.00	1.92	3.62	9	26	7	97	0.00	0.0	3.862	0.003	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.55568	PD.8206	B	#4 ACSR	7.38Y	123.1	0.00	1.93	3.62	3	26	7	97	0.00	0.0	3.902	0.040	17	5	1	2
PL.55569	PL.55568	B	#4 ACSR	7.38Y	123.1	0.00	1.93	1.23	1	9	2	98	0.00	0.0	3.974	0.071	9	2	1	1
PL.55572	PL.55570	ABC	#4 ACSR	7.38Y	123.0	0.07	2.00	15.91	12	340	92	97	0.20	0.1	3.980	0.121	0	0	0	48
PL.62517	PL.55572	C	#1/0 ACSR	7.38Y	123.0	0.00	2.00	1.21	1	9	2	98	0.00	0.0	3.984	0.003	0	0	0	2
PD.9374	PL.62517	C	25T	7.38Y	123.0	0.00	2.00	1.21	0	9	2	98	0.00	0.0	3.984	0.003	0	0	0	2
PL.62518	PD.9374	C	#1/0 ACSR	7.38Y	123.0	0.00	2.00	1.21	1	9	2	98	0.00	0.0	4.072	0.089	0	0	1	2
PL.57863	PL.62518	C	#1/0 ACSR	7.38Y	123.0	0.00	2.00	1.21	1	9	2	98	0.00	0.0	4.117	0.044	9	2	1	1
PL.53581	PL.55572	ABC	#4 ACSR	7.38Y	123.0	0.05	2.04	15.51	12	331	90	96	0.12	0.0	4.058	0.077	0	0	0	46
PL.33434	PL.53581	ABC	#4 ACSR	7.37Y	122.9	0.07	2.11	15.40	12	329	89	97	0.19	0.1	4.179	0.122	0	0	0	45
PL.55253	PL.33434	B	#4 ACSR	7.37Y	122.9	0.00	2.11	0.88	1	6	2	95	0.00	0.0	4.183	0.004	0	0	0	2
PD.8181	PL.55253	B	40QA	7.37Y	122.9	0.00	2.11	0.88	2	6	2	95	0.00	0.0	4.183	0.004	0	0	0	2
PL.55254	PD.8181	B	#4 ACSR	7.37Y	122.9	0.00	2.11	0.88	1	6	2	95	0.00	0.0	4.234	0.051	6	2	2	2
PL.55256	PL.33434	ABC	#4 ACSR	7.37Y	122.9	0.03	2.14	15.11	12	323	87	97	0.08	0.0	4.236	0.057	0	0	0	43
PL.55257	PL.55256	C	#1/0 ACSR	7.37Y	122.9	0.00	2.14	0.45	0	3	1	95	0.00	0.0	4.241	0.004	0	0	0	1
PD.8182	PL.55257	C	20QA	7.37Y	122.9	0.00	2.14	0.45	2	3	1	95	0.00	0.0	4.241	0.004	0	0	0	1
PL.55258	PD.8182	C	#1/0 ACSR	7.37Y	122.9	0.00	2.15	0.45	0	3	1	95	0.00	0.0	4.263	0.022	3	1	1	1
PL.55255	PL.55256	ABC	#4 ACSR	7.37Y	122.8	0.05	2.20	14.96	12	319	86	97	0.14	0.0	4.330	0.094	0	0	0	42
PL.55260	PL.55255	B	#4 ACSR	7.37Y	122.8	0.00	2.20	1.27	1	9	2	98	0.00	0.0	4.334	0.004	0	0	0	2
PD.8183	PL.55260	B	20T	7.37Y	122.8	0.00	2.20	1.27	0	9	2	98	0.00	0.0	4.334	0.004	0	0	0	2
PL.55261	PD.8183	B	#4 ACSR	7.37Y	122.8	0.00	2.20	1.27	1	9	2	98	0.00	0.0	4.361	0.027	7	2	1	2
PL.55259	PL.55261	B	#4 ACSR	7.37Y	122.8	0.00	2.20	0.00	0	0	0	100	0.00	0.0	4.394	0.033	0	0	0	0
PL.55262	PL.55261	B	#4 ACSR	7.37Y	122.8	0.00	2.20	0.34	0	2	1	89	0.00	0.0	4.535	0.174	2	1	1	1
PL.64337	PL.55255	ABC	#4 ACSR	7.36Y	122.7	0.10	2.30	14.53	11	310	84	97	0.24	0.1	4.509	0.179	6	2	1	40
PL.64338	PL.64337	ABC	#4 ACSR	7.36Y	122.7	0.00	2.30	14.24	11	304	82	97	0.00	0.0	4.509	0.000	0	0	0	39
PL.64336	PL.64338	ABC	#4 ACSR	7.35Y	122.6	0.14	2.44	14.24	11	304	82	97	0.34	0.1	4.767	0.258	0	0	0	39
PL.33141	PL.64336	ABC	#4 ACSR	7.34Y	122.4	0.16	2.60	14.24	11	303	82	97	0.39	0.1	5.065	0.297	0	0	0	39
PL.55274	PL.33141	A	#4 ACSR	7.34Y	122.4	0.00	2.60	1.41	1	10	3	96	0.00	0.0	5.068	0.004	0	0	0	1
PD.8186	PL.55274	A	40QA	7.34Y	122.4	0.00	2.60	1.41	4	10	3	96	0.00	0.0	5.068	0.004	0	0	0	1
PL.55275	PD.8186	A	#4 ACSR	7.34Y	122.4	0.00	2.60	1.41	1	10	3	96	0.00	0.0	5.101	0.033	10	3	1	1
PL.55278	PL.33141	B	6 A (CWC)	7.34Y	122.4	0.00	2.60	30.88	22	219	59	97	0.01	0.0	5.068	0.003	0	0	0	26
PD.8187	PL.55278	B	50QA	7.34Y	122.4	0.00	2.60	30.88	62	219	59	97	0.00	0.0	5.068	0.003	0	0	0	26

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.55276	PD.8187	B	6 A (CWC)	7.34Y	122.4	0.04	2.64	30.88	22	219	59	97	0.07	0.0	5.099	0.031	6	2	1	26
PL.55277	PL.55276	B	6 A (CWC)	7.34Y	122.3	0.05	2.69	30.02	21	213	58	96	0.07	0.0	5.133	0.034	0	0	0	25
PL.33450	PL.55277	B	6 A (CWC)	7.34Y	122.3	0.00	2.69	1.35	1	10	3	96	0.00	0.0	5.167	0.035	10	3	1	1
PL.33542	PL.55277	B	6 A (CWC)	7.33Y	122.2	0.06	2.75	28.67	20	203	55	97	0.09	0.0	5.181	0.048	15	4	1	24
PL.55141	PL.33542	B	6 A (CWC)	7.33Y	122.2	0.04	2.79	12.80	9	91	25	96	0.03	0.0	5.253	0.073	7	2	1	14
PL.62760	PL.55141	B	6 A (CWC)	7.33Y	122.2	0.01	2.81	9.19	7	65	18	96	0.01	0.0	5.291	0.038	8	2	1	11
PL.62761	PL.62760	B	6 A (CWC)	7.33Y	122.1	0.05	2.85	8.06	6	57	15	97	0.02	0.0	5.418	0.127	0	0	0	10
PL.55145	PL.62761	B	#1/0 ACSR	7.33Y	122.1	0.00	2.86	2.78	1	20	5	97	0.00	0.0	5.463	0.045	0	0	0	3
PL.55146	PL.55145	B	#1/0 ACSR	7.33Y	122.1	0.00	2.86	1.00	0	7	2	96	0.00	0.0	5.498	0.035	7	2	1	1
PL.55147	PL.55145	B	#1/0 ACSR	7.33Y	122.1	0.00	2.86	1.79	1	13	3	97	0.00	0.0	5.480	0.017	13	3	2	2
PL.55144	PL.62761	B	6 A (CWC)	7.33Y	122.1	0.02	2.87	5.28	4	37	10	97	0.00	0.0	5.503	0.084	12	3	2	7
PL.55288	PL.55144	B	6 A (CWC)	7.33Y	122.1	0.02	2.89	3.53	3	25	7	96	0.00	0.0	5.624	0.121	3	1	1	5
PL.55289	PL.55288	B	6 A (CWC)	7.33Y	122.1	0.01	2.90	3.16	2	22	6	96	0.00	0.0	5.748	0.124	8	2	2	4
PL.55291	PL.55289	B	6 A (CWC)	7.33Y	122.1	0.00	2.91	1.53	1	11	3	96	0.00	0.0	5.879	0.131	11	3	1	1
PL.55290	PL.55289	B	#1/0 ACSR	7.33Y	122.1	0.00	2.90	0.49	0	3	1	95	0.00	0.0	5.823	0.075	3	1	1	1
PL.55287	PL.55288	B	6 A (CWC)	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	5.819	0.195	0	0	0	0
PL.55142	PL.55141	B	6 A (CWC)	7.33Y	122.2	0.01	2.80	2.55	2	18	5	96	0.00	0.0	5.308	0.055	8	2	1	2
PL.55143	PL.55142	B	6 A (CWC)	7.33Y	122.2	0.00	2.80	1.48	1	10	3	96	0.00	0.0	5.398	0.090	10	3	1	1
PL.55279	PL.33542	B	6 A (CWC)	7.33Y	122.2	0.03	2.79	13.73	10	97	26	97	0.02	0.0	5.241	0.060	15	4	2	9
PL.55280	PL.55279	B	6 A (CWC)	7.33Y	122.2	0.04	2.82	11.68	8	83	22	97	0.02	0.0	5.308	0.067	0	0	0	7
PL.55282	PL.55280	B	6 A (CWC)	7.33Y	122.2	0.02	2.84	11.68	8	83	22	97	0.01	0.0	5.352	0.044	15	4	1	7
PL.55281	PL.55282	B	#1/0 ACSR	7.33Y	122.2	0.00	2.84	0.89	0	6	2	95	0.00	0.0	5.416	0.064	6	2	1	1
PL.55283	PL.55282	B	6 A (CWC)	7.33Y	122.1	0.05	2.89	8.64	6	61	17	96	0.02	0.0	5.468	0.116	0	0	0	5
PL.55284	PL.55283	B	6 A (CWC)	7.33Y	122.1	0.03	2.91	8.64	6	61	17	96	0.01	0.0	5.535	0.068	0	0	0	5
PL.55286	PL.55284	B	6 A (CWC)	7.32Y	122.1	0.01	2.92	6.88	5	49	13	97	0.00	0.0	5.571	0.035	14	4	1	4
PL.64587	PL.55286	B	6 A (CWC)	7.32Y	122.1	0.01	2.94	4.94	4	35	9	97	0.00	0.0	5.638	0.067	5	1	1	3
PL.64588	PL.64587	B	6 A (CWC)	7.32Y	122.0	0.01	2.95	4.20	3	30	8	97	0.00	0.0	5.726	0.088	8	2	1	2
PL.63965	PL.64588	B	#1/0 ACSR	7.32Y	122.0	0.00	2.96	3.09	1	22	6	96	0.00	0.0	5.791	0.066	22	6	1	1
PL.55285	PL.55284	B	#2 ACSR	7.33Y	122.1	0.00	2.92	1.76	1	12	3	97	0.00	0.0	5.563	0.028	12	3	1	1
PL.34386	PL.33141	ABC	#4 ACSR	7.34Y	122.4	0.02	2.62	3.47	3	74	20	97	0.01	0.0	5.222	0.158	0	0	0	12
PL.33186	PL.34386	ABC	#4 ACSR	7.34Y	122.4	0.01	2.62	3.01	2	64	17	97	0.00	0.0	5.281	0.059	0	0	1	11

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.34387	PL.33186	ABC	#4 ACSR	7.34Y	122.4	0.02	2.65	3.00	2	64	17	97	0.01	0.0	5.477	0.196	0	0	0	10
PL.64855	PL.34387	ABC	#4 ACSR	7.34Y	122.3	0.01	2.65	2.02	2	43	12	96	0.00	0.0	5.560	0.082	0	0	0	7
PL.64857	PL.64855	B	6 A (CWC)	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	5.562	0.003	0	0	0	0
PD.4988	PL.64857	B	40QA	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	5.562	0.003	0	0	0	0
PL.55269	PD.4988	B	6 A (CWC)	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	5.618	0.056	0	0	0	0
PL.64856	PL.64855	ABC	#4 ACSR	7.34Y	122.3	0.01	2.66	2.02	2	43	12	96	0.00	0.0	5.688	0.128	0	0	0	7
PL.45005	PL.64856	ABC	#4 ACSR	7.34Y	122.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	5.753	0.065	0	0	0	0
PL.45147	PL.45005	ABC	#4 ACSR	7.34Y	122.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	5.825	0.072	0	0	0	0
PL.45004	PL.45147	ABC	#4 ACSR	7.34Y	122.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	5.894	0.070	0	0	0	0
PL.45003	PL.45004	ABC	#4 ACSR	7.34Y	122.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	5.925	0.031	0	0	0	0
PL.45002	PL.45003	ABC	#4 ACSR	7.34Y	122.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	5.962	0.037	0	0	0	0
PL.44954	PL.45002	ABC	#4 ACSR	7.34Y	122.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	5.996	0.034	0	0	0	0
PD.4953-B	PL.44954	ABC	Open	7.34Y	122.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	5.996	0.034	0	0	0	0
PL.55266	PL.64856	B	6 A (CWC)	7.34Y	122.3	0.00	2.66	3.27	2	23	6	97	0.00	0.0	5.691	0.003	0	0	0	2
PD.8184	PL.55266	B	40QA	7.34Y	122.3	0.00	2.66	3.27	8	23	6	97	0.00	0.0	5.691	0.003	0	0	0	2
PL.55268	PD.8184	B	6 A (CWC)	7.34Y	122.3	0.00	2.67	3.27	2	23	6	97	0.00	0.0	5.726	0.035	13	3	1	2
PL.55267	PL.55268	B	6 A (CWC)	7.34Y	122.3	0.01	2.67	1.45	1	10	3	96	0.00	0.0	5.887	0.161	10	3	1	1
PL.34389	PL.64856	B	6 A (CWC)	7.34Y	122.3	0.01	2.67	2.78	2	20	5	97	0.00	0.0	5.737	0.049	5	1	1	5
PL.34390	PL.34389	B	6 A (CWC)	7.34Y	122.3	0.00	2.67	0.73	1	5	1	98	0.00	0.0	5.817	0.081	0	0	0	1
PL.55265	PL.34390	B	6 A (CWC)	7.34Y	122.3	0.00	2.67	0.73	1	5	1	98	0.00	0.0	5.890	0.072	5	1	1	1
PL.33536	PL.34389	B	#4 ACSR	7.34Y	122.3	0.00	2.67	1.39	1	10	3	96	0.00	0.0	5.786	0.049	10	3	3	3
PL.34388	PL.34387	B	6 A (CWC)	7.34Y	122.4	0.00	2.65	2.95	2	21	6	96	0.00	0.0	5.482	0.004	0	0	0	3
PD.4963	PL.34388	B	40QA	7.34Y	122.4	0.00	2.65	2.95	7	21	6	96	0.00	0.0	5.482	0.004	0	0	0	3
PL.55270	PD.4963	B	6 A (CWC)	7.34Y	122.4	0.00	2.65	2.95	2	21	6	96	0.00	0.0	5.511	0.030	13	3	1	3
PL.55271	PL.55270	B	6 A (CWC)	7.34Y	122.3	0.00	2.65	1.14	1	8	2	97	0.00	0.0	5.572	0.061	8	2	2	2
PL.55272	PL.34386	B	6 A (CWC)	7.34Y	122.4	0.00	2.62	1.39	1	10	3	96	0.00	0.0	5.226	0.004	0	0	0	1
PD.8185	PL.55272	B	40QA	7.34Y	122.4	0.00	2.62	1.39	3	10	3	96	0.00	0.0	5.226	0.004	0	0	0	1
PL.55273	PD.8185	B	6 A (CWC)	7.34Y	122.4	0.00	2.62	1.39	1	10	3	96	0.00	0.0	5.271	0.045	10	3	1	1
PL.33468	PL.64336	B	6 A (CWC)	7.35Y	122.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	4.819	0.051	0	0	0	0
PD.4952-B	PL.33468	B	Open	7.35Y	122.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	4.819	0.051	0	0	0	0
PL.33435	PL.53581	B	#4 ACSR	7.38Y	123.0	0.00	2.04	0.32	0	2	1	89	0.00	0.0	4.059	0.001	0	0	0	1

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.4962	PL.33435	B	40QA	7.38Y	123.0	0.00	2.04	0.32	1	2	1	89	0.00	0.0	4.059	0.001	0	0	0	1
PL.33333	PD.4962	B	#4 ACSR	7.38Y	123.0	0.00	2.04	0.32	0	2	1	89	0.00	0.0	4.123	0.064	2	1	1	1
PL.53585	PL.53583	C	#1/0 ACSR	7.39Y	123.2	0.00	1.79	1.43	1	10	3	96	0.00	0.0	3.660	0.003	0	0	0	1
PD.7910	PL.53585	C	20QA	7.39Y	123.2	0.00	1.79	1.43	7	10	3	96	0.00	0.0	3.660	0.003	0	0	0	1
PL.53586	PD.7910	C	#1/0 ACSR	7.39Y	123.2	0.00	1.79	1.43	1	10	3	96	0.00	0.0	3.677	0.017	10	3	1	1
PL.33568	PL.33566	A	#4 ACSR	7.41Y	123.6	0.00	1.44	1.31	1	9	3	95	0.00	0.0	3.170	0.001	0	0	0	2
PD.4960	PL.33568	A	40QA	7.41Y	123.6	0.00	1.44	1.31	3	9	3	95	0.00	0.0	3.170	0.001	0	0	0	2
PL.33569	PD.4960	A	#4 ACSR	7.41Y	123.6	0.00	1.44	1.31	1	9	3	95	0.00	0.0	3.202	0.033	9	3	2	2
PL.33500	PL.33562	ABC	#3/0 ACSR	7.42Y	123.6	0.07	1.36	37.58	13	807	221	96	0.36	0.0	3.144	0.154	3	1	1	116
PL.33181	PL.33500	ABC	#3/0 ACSR	7.42Y	123.6	0.02	1.38	37.44	12	804	220	96	0.11	0.0	3.190	0.046	0	0	0	115
PL.33501	PL.33181	ABC	#3/0 ACSR	7.42Y	123.6	0.02	1.40	36.84	12	791	216	96	0.11	0.0	3.238	0.047	12	3	2	114
PL.34061	PL.33501	ABC	#3/0 ACSR	7.41Y	123.5	0.05	1.46	36.30	12	779	213	96	0.26	0.0	3.356	0.119	0	0	0	112
PL.34060	PL.34061	C	6 A (CWC)	7.41Y	123.5	0.00	1.46	1.77	1	13	3	97	0.00	0.0	3.357	0.001	0	0	0	1
PD.4923	PL.34060	C	50QA	7.41Y	123.5	0.00	1.46	1.77	4	13	3	97	0.00	0.0	3.357	0.001	0	0	0	1
PL.53521	PD.4923	C	6 A (CWC)	7.41Y	123.5	0.00	1.46	1.77	1	13	3	97	0.00	0.0	3.429	0.072	13	3	1	1
PL.53522	PL.53521	C	6 A (CWC)	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	3.529	0.100	0	0	0	0
PL.33182	PL.34061	ABC	#3/0 ACSR	7.41Y	123.5	0.05	1.50	35.71	12	766	209	96	0.22	0.0	3.457	0.101	2	0	3	111
PL.34062	PL.33182	ABC	#3/0 ACSR	7.41Y	123.5	0.01	1.51	34.85	12	747	204	96	0.04	0.0	3.476	0.019	0	0	0	106
PL.34063	PL.34062	ABC	#3/0 ACSR	7.41Y	123.5	0.02	1.53	34.85	12	747	204	96	0.08	0.0	3.516	0.040	0	0	0	106
PL.34064	PL.34063	A	#4 ACSR	7.41Y	123.5	0.00	1.53	5.07	4	36	10	96	0.00	0.0	3.516	0.000	0	0	0	6
PD.5006	PL.34064	A	50QA	7.41Y	123.5	0.00	1.53	5.07	10	36	10	96	0.00	0.0	3.516	0.000	0	0	0	6
PL.53534	PD.5006	A	#4 ACSR	7.41Y	123.5	0.02	1.55	5.07	4	36	10	96	0.00	0.0	3.607	0.091	12	3	1	6
PL.53535	PL.53534	A	#4 ACSR	7.41Y	123.5	0.00	1.55	3.41	3	24	7	96	0.00	0.0	3.623	0.016	0	0	0	5
PL.53600	PL.53535	A	#1/0 ACSR	7.41Y	123.5	0.00	1.55	1.36	1	10	3	96	0.00	0.0	3.666	0.043	4	1	1	3
PL.53601	PL.53600	A	#1/0 ACSR	7.41Y	123.5	0.00	1.55	0.79	0	6	2	95	0.00	0.0	3.727	0.061	0	0	0	2
PL.53603	PL.53601	A	#1/0 ACSR	7.41Y	123.5	0.00	1.55	0.00	0	0	0	100	0.00	0.0	3.825	0.098	0	0	0	0
PL.53602	PL.53601	A	#1/0 ACSR	7.41Y	123.4	0.00	1.55	0.79	0	6	2	95	0.00	0.0	3.766	0.039	3	1	1	2
PL.53599	PL.53602	A	#1/0 ACSR	7.41Y	123.4	0.00	1.55	0.38	0	3	1	95	0.00	0.0	3.850	0.084	3	1	1	1
PL.53536	PL.53535	A	#1/0 ACSR	7.41Y	123.5	0.00	1.55	0.47	0	3	1	95	0.00	0.0	3.661	0.038	3	1	1	1
PL.53598	PL.53535	A	#4 ACSR	7.41Y	123.4	0.01	1.55	1.59	1	11	3	96	0.00	0.0	3.782	0.159	11	3	1	1
PL.34065	PL.34063	ABC	#3/0 ACSR	7.41Y	123.4	0.03	1.56	33.16	11	711	194	96	0.14	0.0	3.594	0.078	2	1	2	100

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.34221	PL.34065	C	#4 ACSR	7.41Y	123.4	0.00	1.56	1.73	1	12	3	97	0.00	0.0	3.594	0.000	0	0	0	3
PD.4924	PL.34221	C	20T	7.41Y	123.4	0.00	1.56	1.73	0	12	3	97	0.00	0.0	3.594	0.000	0	0	0	3
PL.33484	PD.4924	C	#4 ACSR	7.41Y	123.4	0.00	1.57	1.73	1	12	3	97	0.00	0.0	3.670	0.075	5	1	2	3
PL.34222	PL.33484	C	#4 ACSR	7.41Y	123.4	0.00	1.57	1.00	1	7	2	96	0.00	0.0	3.693	0.023	7	2	1	1
PL.34220	PL.34065	ABC	#3/0 ACSR	7.40Y	123.4	0.05	1.61	32.49	11	697	190	96	0.20	0.0	3.705	0.111	0	0	0	95
PL.33170	PL.34220	C	6 A (CWC)	7.40Y	123.4	0.01	1.61	11.40	8	81	22	97	0.00	0.0	3.718	0.013	0	0	0	11
PL.34223	PL.33170	C	6 A (CWC)	7.40Y	123.4	0.00	1.61	11.40	8	81	22	97	0.00	0.0	3.720	0.002	0	0	0	11
PD.4947	PL.34223	C	35L	7.40Y	123.4	0.00	1.61	11.40	33	81	22	97	0.00	0.0	3.720	0.002	0	0	0	11
PL.34163	PD.4947	C	6 A (CWC)	7.39Y	123.2	0.21	1.82	11.40	8	81	22	97	0.12	0.2	4.114	0.394	0	0	0	11
PL.33980	PL.34163	C	6 A (CWC)	7.39Y	123.2	0.03	1.85	7.99	6	57	15	97	0.01	0.0	4.190	0.076	0	0	0	9
PL.34164	PL.33980	C	6 A (CWC)	7.39Y	123.1	0.03	1.88	7.99	6	57	15	97	0.01	0.0	4.277	0.088	0	0	0	9
PL.64869	PL.34164	C	6 A (CWC)	7.39Y	123.1	0.00	1.88	0.00	0	0	0	100	0.00	0.0	4.398	0.120	0	0	0	0
PL.34165	PL.34164	C	6 A (CWC)	7.38Y	123.1	0.05	1.93	7.99	6	57	15	97	0.02	0.0	4.424	0.146	0	0	0	9
PL.34166	PL.34165	C	6 A (CWC)	7.38Y	123.0	0.04	1.98	6.46	5	46	12	97	0.02	0.0	4.574	0.151	0	0	0	7
PL.33200	PL.34166	C	6 A (CWC)	7.38Y	123.0	0.02	1.99	5.78	4	41	11	97	0.01	0.0	4.643	0.068	0	0	0	6
PL.33126	PL.33200	C	6 A (CWC)	7.38Y	123.0	0.00	2.00	1.15	1	8	2	97	0.00	0.0	4.699	0.056	8	2	1	1
PL.33201	PL.33200	C	6 A (CWC)	7.38Y	123.0	0.01	2.01	4.63	3	33	9	96	0.00	0.0	4.713	0.070	2	1	1	5
PL.64851	PL.33201	C	#4 ACSR	7.38Y	123.0	0.01	2.02	3.40	3	24	7	96	0.00	0.0	4.763	0.050	8	2	1	3
PL.34169	PL.64851	C	#4 ACSR	7.38Y	123.0	0.00	2.02	2.34	2	17	5	96	0.00	0.0	4.812	0.048	9	2	1	2
PL.34170	PL.34169	C	#4 ACSR	7.38Y	123.0	0.00	2.02	1.06	1	8	2	97	0.00	0.0	4.858	0.047	8	2	1	1
PL.66217	PL.34170	C	#1/0 ACSR	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	4.911	0.053	0	0	0	0
PL.34171	PL.33201	C	6 A (CWC)	7.38Y	123.0	0.00	2.01	0.97	1	7	2	96	0.00	0.0	4.825	0.112	0	0	0	1
PL.34172	PL.34171	C	6 A (CWC)	7.38Y	123.0	0.00	2.02	0.97	1	7	2	96	0.00	0.0	5.027	0.202	7	2	1	1
PL.62966	PL.34172	C	6 A (CWC)	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	5.140	0.113	0	0	0	0
PD.9401-A	PL.62966	C	Open	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	5.140	0.113	0	0	0	0
PL.34167	PL.34166	C	#2 ACSR	7.38Y	123.0	0.00	1.98	0.68	0	5	1	98	0.00	0.0	4.735	0.161	0	0	0	1
PL.34168	PL.34167	C	#2 ACSR	7.38Y	123.0	0.00	1.98	0.68	0	5	1	98	0.00	0.0	4.934	0.199	5	1	1	1
PL.64868	PL.34165	C	6 A (CWC)	7.38Y	123.1	0.00	1.94	1.53	1	11	3	96	0.00	0.0	4.521	0.097	11	3	2	2
PL.33146	PL.33980	C	6 A (CWC)	7.39Y	123.2	0.00	1.85	0.00	0	0	0	100	0.00	0.0	4.253	0.063	0	0	0	0
PL.33278	PL.34163	C	#4 ACSR	7.39Y	123.2	0.00	1.82	3.41	3	24	7	96	0.00	0.0	4.141	0.028	24	7	2	2
PL.33164	PL.34163	C	#4 ACSR	7.39Y	123.2	0.00	1.82	0.00	0	0	0	100	0.00	0.0	4.184	0.071	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33193	PL.34220	ABC	#1/0 ACSR	7.40Y	123.4	0.02	1.63	28.69	12	615	167	97	0.09	0.0	3.745	0.040	0	0	0	84
PL.33974	PL.33193	ABC	#1/0 ACSR	7.40Y	123.4	0.00	1.63	28.69	12	615	167	97	0.00	0.0	3.745	0.001	0	0	0	84
PD.4948	PL.33974	ABC	50L	7.40Y	123.4	0.00	1.63	28.69	57	615	167	97	0.00	0.0	3.745	0.001	0	0	0	84
PL.33975	PD.4948	ABC	#1/0 ACSR	7.40Y	123.4	0.02	1.65	28.69	12	615	167	97	0.08	0.0	3.782	0.037	0	0	0	84
PL.53524	PL.33975	ABC	#1/0 ACSR	7.40Y	123.3	0.04	1.69	28.69	12	615	167	97	0.17	0.0	3.862	0.079	0	0	0	84
PL.53525	PL.53524	ABC	#1/0 ACSR	7.40Y	123.3	0.04	1.73	27.97	12	599	163	96	0.17	0.0	3.944	0.082	12	3	1	82
PL.33149	PL.53525	C	6 A (CWC)	7.40Y	123.3	0.00	1.73	1.44	1	10	3	96	0.00	0.0	3.996	0.052	10	3	3	3
PL.33485	PL.53525	C	#4 ACSR	7.40Y	123.3	0.00	1.73	1.82	1	13	4	96	0.00	0.0	3.945	0.001	0	0	0	1
PD.4966	PL.33485	C	25QA	7.40Y	123.3	0.00	1.73	1.82	7	13	4	96	0.00	0.0	3.945	0.001	0	0	0	1
PL.62750	PD.4966	C	#4 ACSR	7.40Y	123.3	0.00	1.73	1.82	1	13	4	96	0.00	0.0	3.977	0.033	0	0	0	1
PL.62752	PL.62750	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	1.82	1	13	4	96	0.00	0.0	3.980	0.003	0	0	0	1
PD.9398	PL.62752	C	10T	7.40Y	123.3	0.00	1.73	1.82	0	13	4	96	0.00	0.0	3.980	0.003	0	0	0	1
PL.62753	PD.9398	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	1.82	1	13	4	96	0.00	0.0	4.036	0.056	0	0	0	1
PL.62754	PL.62753	C	#1/0 ACSR	7.40Y	123.3	0.00	1.74	1.82	1	13	4	96	0.00	0.0	4.104	0.068	0	0	0	1
PL.62755	PL.62754	C	#1/0 ACSR	7.40Y	123.3	0.00	1.74	1.82	1	13	4	96	0.00	0.0	4.174	0.070	0	0	0	1
PL.62756	PL.62755	C	#1/0 ACSR	7.40Y	123.3	0.00	1.74	1.82	1	13	4	96	0.00	0.0	4.219	0.045	0	0	0	1
PL.62757	PL.62756	C	#1/0 ACSR	7.40Y	123.3	0.00	1.74	1.82	1	13	4	96	0.00	0.0	4.280	0.060	13	4	1	1
PL.62751	PL.62750	C	#4 ACSR	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	4.030	0.053	0	0	0	0
PL.33976	PL.53525	ABC	#1/0 ACSR	7.39Y	123.2	0.04	1.76	26.34	11	564	153	97	0.14	0.0	4.020	0.076	24	6	2	77
PL.33486	PL.33976	ABC	#1/0 ACSR	7.39Y	123.2	0.05	1.81	17.49	8	374	102	96	0.12	0.0	4.167	0.147	13	3	1	56
PL.33470	PL.33486	ABC	#1/0 ACSR	7.39Y	123.2	0.04	1.84	16.90	7	362	98	97	0.09	0.0	4.283	0.117	0	0	0	55
PL.33471	PL.33470	ABC	#1/0 ACSR	7.39Y	123.1	0.01	1.85	16.90	7	362	98	97	0.02	0.0	4.314	0.031	9	2	1	55
PL.33472	PL.33471	ABC	#1/0 ACSR	7.39Y	123.1	0.02	1.87	16.49	7	353	96	96	0.05	0.0	4.386	0.072	0	0	0	54
PL.33940	PL.33472	C	6 A (CWC)	7.39Y	123.1	0.00	1.87	1.65	1	12	3	97	0.00	0.0	4.387	0.001	0	0	0	2
PD.4913	PL.33940	C	25QA	7.39Y	123.1	0.00	1.87	1.65	7	12	3	97	0.00	0.0	4.387	0.001	0	0	0	2
PL.33473	PD.4913	C	6 A (CWC)	7.39Y	123.1	0.00	1.88	1.65	1	12	3	97	0.00	0.0	4.451	0.064	6	2	1	2
PL.33162	PL.33473	C	6 A (CWC)	7.39Y	123.1	0.00	1.88	0.82	1	6	2	95	0.00	0.0	4.491	0.040	6	2	1	1
PL.33474	PL.33473	C	6 A (CWC)	7.39Y	123.1	0.00	1.88	0.00	0	0	0	100	0.00	0.0	4.493	0.042	0	0	0	0
PL.33514	PL.33472	ABC	#1/0 ACSR	7.39Y	123.1	0.02	1.90	15.94	7	341	93	96	0.06	0.0	4.468	0.082	0	0	0	52
PL.33941	PL.33514	C	6 A (CWC)	7.39Y	123.1	0.00	1.90	1.31	1	9	3	95	0.00	0.0	4.469	0.001	0	0	0	1
PD.4978	PL.33941	C	25QA	7.39Y	123.1	0.00	1.90	1.31	5	9	3	95	0.00	0.0	4.469	0.001	0	0	0	1

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33942	PD.4978	C	6 A (CWC)	7.39Y	123.1	0.00	1.90	1.31	1	9	3	95	0.00	0.0	4.518	0.049	0	0	0	1
PL.53171	PL.33942	C	6 A (CWC)	7.39Y	123.1	0.00	1.90	1.31	1	9	3	95	0.00	0.0	4.582	0.064	9	3	1	1
PL.53424	PL.33942	C	#4 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	4.580	0.062	0	0	0	0
PL.53425	PL.53424	C	#4 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	4.627	0.048	0	0	0	0
PL.33636	PL.33514	ABC	#1/0 ACSR	7.38Y	123.0	0.06	1.95	15.50	7	331	90	96	0.13	0.0	4.668	0.200	0	0	0	51
PL.33480	PL.33636	C	#4 ACSR	7.38Y	123.0	0.00	1.95	2.28	2	16	4	97	0.00	0.0	4.671	0.003	0	0	0	2
PD.4990	PL.33480	C	25QA	7.38Y	123.0	0.00	1.95	2.28	9	16	4	97	0.00	0.0	4.671	0.003	0	0	0	2
PL.33481	PD.4990	C	#4 ACSR	7.38Y	123.0	0.01	1.97	2.28	2	16	4	97	0.00	0.0	4.828	0.158	7	2	1	2
PL.33638	PL.33481	C	#4 ACSR	7.38Y	123.0	0.00	1.97	1.33	1	9	3	95	0.00	0.0	4.894	0.065	9	3	1	1
PL.33637	PL.33636	ABC	#1/0 ACSR	7.38Y	123.0	0.02	1.98	14.74	6	315	85	97	0.05	0.0	4.749	0.081	0	0	0	49
PL.34133	PL.33637	B	6 A (CWC)	7.38Y	123.0	0.00	1.98	8.44	6	60	16	97	0.00	0.0	4.753	0.004	0	0	0	7
PD.4971	PL.34133	B	25QA	7.38Y	123.0	0.00	1.98	8.44	34	60	16	97	0.00	0.0	4.753	0.004	0	0	0	7
PL.33535	PD.4971	B	6 A (CWC)	7.38Y	123.0	0.02	2.00	8.44	6	60	16	97	0.01	0.0	4.813	0.060	6	2	1	7
PL.34089	PL.33535	B	6 A (CWC)	7.38Y	123.0	0.04	2.03	7.55	5	54	15	96	0.01	0.0	4.915	0.101	0	0	0	6
PL.34090	PL.34089	B	6 A (CWC)	7.38Y	122.9	0.02	2.06	6.39	5	45	12	97	0.01	0.0	4.996	0.082	0	0	0	5
PL.53533	PL.34090	B	#1/0 ACSR	7.38Y	122.9	0.00	2.06	1.45	1	10	3	96	0.00	0.0	5.056	0.060	10	3	1	1
PL.53582	PL.34090	B	6 A (CWC)	7.38Y	122.9	0.02	2.08	2.65	2	19	5	97	0.00	0.0	5.199	0.202	0	0	0	3
PL.55422	PL.53582	B	6 A (CWC)	7.37Y	122.9	0.01	2.09	2.65	2	19	5	97	0.00	0.0	5.329	0.130	8	2	1	3
PL.55423	PL.55422	B	6 A (CWC)	7.37Y	122.9	0.00	2.10	0.50	0	4	1	97	0.00	0.0	5.391	0.062	4	1	1	1
PL.55426	PL.55423	B	6 A (CWC)	7.37Y	122.9	0.00	2.10	0.00	0	0	0	100	0.00	0.0	5.553	0.163	0	0	0	0
PL.55424	PL.55422	B	#4 ACSR	7.37Y	122.9	0.00	2.10	1.05	1	7	2	96	0.00	0.0	5.385	0.057	7	2	1	1
PL.55425	PL.55424	B	#4 ACSR	7.37Y	122.9	0.00	2.10	0.00	0	0	0	100	0.00	0.0	5.440	0.054	0	0	0	0
PL.53532	PL.34090	B	#1/0 ACSR	7.38Y	122.9	0.00	2.06	2.28	1	16	4	97	0.00	0.0	5.013	0.017	16	4	1	1
PL.55421	PL.34089	B	6 A (CWC)	7.38Y	123.0	0.00	2.03	1.17	1	8	2	97	0.00	0.0	4.961	0.047	8	2	1	1
PL.64867	PL.33637	ABC	#1/0 ACSR	7.38Y	123.0	0.02	2.00	11.93	5	255	69	97	0.04	0.0	4.862	0.113	0	0	0	42
PL.34134	PL.64867	C	6 A (CWC)	7.38Y	123.0	0.00	2.00	13.94	10	99	27	96	0.00	0.0	4.865	0.003	0	0	0	14
PD.4970	PL.34134	C	25QA	7.38Y	123.0	0.00	2.00	13.94	56	99	27	96	0.00	0.0	4.865	0.003	0	0	0	14
PL.34135	PD.4970	C	6 A (CWC)	7.38Y	123.0	0.04	2.05	13.94	10	99	27	96	0.03	0.0	4.935	0.069	0	0	0	14
PL.53176	PL.34135	C	6 A (CWC)	7.38Y	123.0	0.00	2.05	1.23	1	9	2	98	0.00	0.0	5.019	0.085	9	2	1	1
PL.53590	PL.53176	C	#1/0 ACSR	7.38Y	123.0	0.00	2.05	0.00	0	0	0	100	0.00	0.0	5.073	0.054	0	0	0	0
PL.34136	PL.34135	C	6 A (CWC)	7.36Y	122.6	0.32	2.36	12.71	9	90	25	96	0.21	0.2	5.479	0.544	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33612	PL.34136	C	6 A (CWC)	7.36Y	122.6	0.02	2.38	3.96	3	28	8	96	0.00	0.0	5.570	0.091	0	0	0	5
PL.33613	PL.33612	C	6 A (CWC)	7.36Y	122.6	0.02	2.40	3.96	3	28	8	96	0.00	0.0	5.671	0.101	0	0	0	5
PL.53597	PL.33613	C	6 A (CWC)	7.36Y	122.6	0.00	2.40	0.00	0	0	0	100	0.00	0.0	5.699	0.028	0	0	1	1
PL.33614	PL.33613	C	6 A (CWC)	7.36Y	122.6	0.01	2.41	1.97	1	14	4	96	0.00	0.0	5.807	0.136	0	0	0	2
PL.34015	PL.33614	C	6 A (CWC)	7.36Y	122.6	0.00	2.41	1.97	1	14	4	96	0.00	0.0	5.860	0.054	0	0	0	2
PL.34016	PL.34015	C	6 A (CWC)	7.35Y	122.6	0.01	2.42	1.47	1	10	3	96	0.00	0.0	6.071	0.210	10	3	1	1
PL.33289	PL.34015	C	6 A (CWC)	7.36Y	122.6	0.00	2.41	0.50	0	4	1	97	0.00	0.0	5.887	0.026	4	1	1	1
PL.53595	PL.33613	C	#1/0 ACSR	7.36Y	122.6	0.00	2.40	1.99	1	14	4	96	0.00	0.0	5.697	0.026	1	0	1	2
PL.53596	PL.53595	C	#1/0 ACSR	7.36Y	122.6	0.00	2.40	1.88	1	13	4	96	0.00	0.0	5.722	0.025	13	4	1	1
PL.33171	PL.33612	C	6 A (CWC)	7.36Y	122.6	0.00	2.38	0.00	0	0	0	100	0.00	0.0	5.620	0.050	0	0	0	0
PL.34139	PL.34136	C	6 A (CWC)	7.36Y	122.6	0.03	2.39	8.75	6	62	17	96	0.01	0.0	5.561	0.082	6	2	1	8
PL.34140	PL.34139	C	6 A (CWC)	7.35Y	122.6	0.03	2.42	7.93	6	56	15	97	0.01	0.0	5.631	0.069	0	0	0	7
PL.33264	PL.34140	C	#2 ACSR	7.35Y	122.6	0.00	2.42	1.52	1	11	3	96	0.00	0.0	5.729	0.099	11	3	1	1
PL.34012	PL.34140	C	6 A (CWC)	7.35Y	122.5	0.06	2.47	6.41	5	46	12	97	0.02	0.0	5.825	0.194	0	0	0	6
PL.55593	PL.34012	C	6 A (CWC)	7.35Y	122.5	0.02	2.50	6.41	5	46	12	97	0.01	0.0	5.913	0.088	7	2	1	6
PL.55594	PL.55593	C	6 A (CWC)	7.35Y	122.5	0.04	2.54	5.38	4	38	10	97	0.01	0.0	6.095	0.182	0	0	0	5
PL.34017	PL.55594	C	6 A (CWC)	7.35Y	122.4	0.03	2.57	3.57	3	25	7	96	0.00	0.0	6.254	0.158	0	0	0	2
PL.34018	PL.34017	C	6 A (CWC)	7.35Y	122.4	0.01	2.58	3.57	3	25	7	96	0.00	0.0	6.309	0.055	0	0	0	2
PL.34019	PL.34018	C	6 A (CWC)	7.34Y	122.4	0.01	2.59	3.57	3	25	7	96	0.00	0.0	6.362	0.052	0	0	0	2
PL.34021	PL.34019	C	6 A (CWC)	7.34Y	122.4	0.00	2.59	0.00	0	0	0	100	0.00	0.0	6.405	0.043	0	0	0	0
PL.34022	PL.34021	C	6 A (CWC)	7.34Y	122.4	0.00	2.59	0.00	0	0	0	100	0.00	0.0	6.449	0.044	0	0	0	0
PL.33608	PL.34019	C	#4 ACSR	7.34Y	122.4	0.00	2.59	0.00	0	0	0	100	0.00	0.0	6.534	0.173	0	0	0	0
PL.55392	PL.34019	C	#4 ACSR	7.34Y	122.4	0.01	2.59	3.57	3	25	7	96	0.00	0.0	6.456	0.094	25	7	2	2
PL.34013	PL.55594	C	#4 ACSR	7.35Y	122.5	0.00	2.55	1.82	1	13	3	97	0.00	0.0	6.116	0.021	3	1	1	3
PL.34014	PL.34013	C	#4 ACSR	7.35Y	122.5	0.00	2.55	1.35	1	10	3	96	0.00	0.0	6.149	0.033	10	3	2	2
PL.53173	PL.64867	B	6 A (CWC)	7.38Y	122.9	0.07	2.07	21.85	16	156	42	97	0.08	0.1	4.937	0.075	16	4	3	28
PL.53172	PL.53173	B	6 A (CWC)	7.37Y	122.9	0.07	2.14	19.61	14	140	38	97	0.07	0.1	5.017	0.080	0	0	0	25
PL.33640	PL.53172	B	#2 ACSR	7.37Y	122.9	0.00	2.14	1.26	1	9	2	98	0.00	0.0	5.050	0.033	9	2	1	1
PL.34137	PL.53172	B	6 A (CWC)	7.37Y	122.8	0.05	2.19	18.35	13	131	35	97	0.05	0.0	5.079	0.062	0	0	0	24
PL.53517	PL.34137	B	6 A (CWC)	7.37Y	122.8	0.01	2.20	4.04	3	29	8	96	0.00	0.0	5.155	0.076	14	4	1	2
PL.62956	PL.53517	B	#1/0 ACSR	7.37Y	122.8	0.00	2.21	2.04	1	15	4	97	0.00	0.0	5.212	0.058	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62955	PL.62956	B	#1/0 ACSR	7.37Y	122.8	0.00	2.21	2.04	1	15	4	97	0.00	0.0	5.269	0.057	15	4	1	1
PL.53518	PL.34137	B	6 A (CWC)	7.37Y	122.8	0.03	2.22	14.31	10	102	28	96	0.02	0.0	5.121	0.042	6	2	2	22
PL.53520	PL.53518	B	#1/0 ACSR	7.37Y	122.8	0.00	2.22	0.00	0	0	0	100	0.00	0.0	5.150	0.029	0	0	0	0
PL.72962	PL.53518	B	6 A (CWC)	7.37Y	122.8	0.00	2.22	13.44	10	96	26	97	0.00	0.0	5.121	0.000	0	0	0	20
PL.72963	PL.72962	B	6 A (CWC)	7.36Y	122.6	0.15	2.37	13.44	10	96	26	97	0.10	0.1	5.374	0.253	10	3	1	20
PL.34138	PL.72963	B	6 A (CWC)	7.36Y	122.6	0.04	2.41	12.08	9	86	23	97	0.02	0.0	5.443	0.070	0	0	0	19
PL.66215	PL.34138	B	6 A (CWC)	7.35Y	122.6	0.02	2.43	10.96	8	78	21	97	0.01	0.0	5.493	0.049	0	0	0	18
PL.66214	PL.66215	B	#1/0 ACSR	7.35Y	122.6	0.00	2.43	0.93	0	7	2	96	0.00	0.0	5.537	0.045	7	2	1	1
PL.66216	PL.66215	B	6 A (CWC)	7.35Y	122.5	0.05	2.48	10.03	7	71	19	97	0.02	0.0	5.593	0.101	0	0	0	17
PL.34011	PL.66216	B	6 A (CWC)	7.35Y	122.4	0.09	2.57	10.03	7	71	19	97	0.05	0.1	5.797	0.204	0	0	0	17
PL.34020	PL.34011	B	6 A (CWC)	7.34Y	122.4	0.01	2.58	4.79	3	34	9	97	0.00	0.0	5.858	0.060	0	0	0	9
PL.33176	PL.34020	B	6 A (CWC)	7.34Y	122.4	0.02	2.60	3.88	3	28	7	97	0.00	0.0	5.965	0.107	0	0	0	7
PL.33502	PL.33176	B	6 A (CWC)	7.34Y	122.4	0.01	2.61	2.54	2	18	5	96	0.00	0.0	6.048	0.083	4	1	1	5
PL.57236	PL.33502	B	6 A (CWC)	7.34Y	122.4	0.00	2.61	1.99	1	14	4	96	0.00	0.0	6.071	0.023	0	0	0	4
PL.57237	PL.57236	B	6 A (CWC)	7.34Y	122.4	0.00	2.62	1.99	1	14	4	96	0.00	0.0	6.124	0.053	4	1	1	3
PL.57238	PL.57237	B	6 A (CWC)	7.34Y	122.4	0.00	2.62	1.44	1	10	3	96	0.00	0.0	6.214	0.090	10	3	2	2
PL.57235	PL.57236	B	6 A (CWC)	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.133	0.062	0	0	1	1
PL.33513	PL.33176	B	6 A (CWC)	7.34Y	122.4	0.00	2.61	1.35	1	10	3	96	0.00	0.0	6.056	0.091	10	3	2	2
PL.33135	PL.34020	B	6 A (CWC)	7.34Y	122.4	0.00	2.58	0.91	1	6	2	95	0.00	0.0	5.903	0.045	6	2	2	2
PL.59098	PL.34011	B	#2 ACSR	7.35Y	122.4	0.01	2.58	5.24	3	37	10	97	0.00	0.0	5.862	0.065	10	3	1	8
PL.59097	PL.59098	B	#2 ACSR	7.35Y	122.4	0.00	2.58	1.43	1	10	3	96	0.00	0.0	5.921	0.059	10	3	1	1
PL.59099	PL.59098	B	#2 ACSR	7.35Y	122.4	0.00	2.58	2.46	1	17	5	96	0.00	0.0	5.915	0.052	17	5	6	6
PL.33531	PL.34138	B	6 A (CWC)	7.36Y	122.6	0.00	2.41	1.12	1	8	2	97	0.00	0.0	5.517	0.073	8	2	1	1
PL.33977	PL.33976	A	6 A (CWC)	7.39Y	123.2	0.00	1.76	23.23	17	166	45	97	0.00	0.0	4.020	0.001	0	0	0	19
PD.4964	PL.33977	A	40QA	7.39Y	123.2	0.00	1.76	23.23	58	166	45	97	0.00	0.0	4.020	0.001	0	0	0	19
PL.33487	PD.4964	A	6 A (CWC)	7.39Y	123.1	0.14	1.90	23.23	17	166	45	97	0.17	0.1	4.148	0.127	0	0	0	19
PL.53523	PL.33487	A	6 A (CWC)	7.39Y	123.1	0.01	1.90	2.21	2	16	4	97	0.00	0.0	4.266	0.118	16	4	1	1
PL.33488	PL.33487	A	6 A (CWC)	7.38Y	123.0	0.11	2.01	21.02	15	150	41	96	0.12	0.1	4.260	0.112	0	0	0	18
PL.33978	PL.33488	A	6 A (CWC)	7.38Y	123.0	0.02	2.03	6.65	5	47	13	96	0.01	0.0	4.339	0.080	0	0	0	4
PL.33292	PL.33978	A	#2 ACSR	7.38Y	123.0	0.00	2.03	1.84	1	13	4	96	0.00	0.0	4.364	0.025	13	4	1	1
PL.33979	PL.33978	A	6 A (CWC)	7.38Y	123.0	0.01	2.04	4.80	3	34	9	97	0.00	0.0	4.399	0.060	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.53537	PL.33979	A	6 A (CWC)	7.38Y	123.0	0.00	2.05	2.88	2	21	6	96	0.00	0.0	4.440	0.041	12	3	1	2
PL.53538	PL.53537	A	6 A (CWC)	7.38Y	123.0	0.00	2.05	1.15	1	8	2	97	0.00	0.0	4.501	0.061	8	2	1	1
PL.33124	PL.33979	A	#1/0 ACSR	7.38Y	123.0	0.00	2.05	1.92	1	14	4	96	0.00	0.0	4.508	0.109	14	4	1	1
PL.33280	PL.33488	A	6 A (CWC)	7.37Y	122.9	0.09	2.09	14.37	10	102	28	96	0.07	0.1	4.390	0.130	0	0	0	14
PL.33318	PL.33280	A	#4 ACSR	7.37Y	122.9	0.00	2.09	0.61	0	4	1	97	0.00	0.0	4.532	0.142	4	1	1	1
PL.33281	PL.33280	A	6 A (CWC)	7.37Y	122.8	0.08	2.18	13.76	10	98	26	97	0.06	0.1	4.543	0.153	24	7	2	13
PL.33932	PL.33281	A	6 A (CWC)	7.37Y	122.8	0.03	2.20	7.03	5	50	14	96	0.01	0.0	4.630	0.087	0	0	0	9
PL.33517	PL.33932	A	#4 ACSR	7.37Y	122.8	0.00	2.20	0.00	0	0	0	100	0.00	0.0	4.665	0.035	0	0	0	0
PL.33933	PL.33932	A	6 A (CWC)	7.37Y	122.8	0.02	2.22	7.03	5	50	14	96	0.01	0.0	4.694	0.063	7	2	2	9
PL.33425	PL.33933	A	#4 ACSR	7.37Y	122.8	0.00	2.23	1.41	1	10	3	96	0.00	0.0	4.777	0.083	10	3	1	1
PL.33934	PL.33933	A	6 A (CWC)	7.37Y	122.8	0.01	2.23	3.62	3	26	7	97	0.00	0.0	4.755	0.061	17	5	2	5
PL.33935	PL.33934	A	6 A (CWC)	7.37Y	122.8	0.00	2.23	1.27	1	9	2	98	0.00	0.0	4.816	0.061	5	1	2	3
PL.33936	PL.33935	A	6 A (CWC)	7.37Y	122.8	0.00	2.23	0.63	0	4	1	97	0.00	0.0	4.888	0.072	4	1	1	1
PL.33938	PL.33936	A	#4 ACSR	7.37Y	122.8	0.00	2.23	0.00	0	0	0	100	0.00	0.0	4.929	0.041	0	0	0	0
PL.33939	PL.33938	A	#4 ACSR	7.37Y	122.8	0.00	2.23	0.00	0	0	0	100	0.00	0.0	4.969	0.041	0	0	0	0
PL.33937	PL.33936	A	6 A (CWC)	7.37Y	122.8	0.00	2.23	0.00	0	0	0	100	0.00	0.0	4.971	0.083	0	0	0	0
PL.33319	PL.33933	A	#4 ACSR	7.37Y	122.8	0.00	2.22	0.97	1	7	2	96	0.00	0.0	4.756	0.063	7	2	1	1
PL.62695	PL.33281	A	6 A (CWC)	7.37Y	122.8	0.01	2.18	3.32	2	24	6	97	0.00	0.0	4.590	0.047	11	3	1	2
PL.62395	PL.62695	A	#1/0 ACSR	7.37Y	122.8	0.00	2.18	1.77	1	13	3	97	0.00	0.0	4.592	0.002	0	0	0	1
PD.9518	PL.62395	A	25T	7.37Y	122.8	0.00	2.18	1.77	0	13	3	97	0.00	0.0	4.592	0.002	0	0	0	1
PL.62396	PD.9518	A	#1/0 ACSR	7.37Y	122.8	0.00	2.18	1.77	1	13	3	97	0.00	0.0	4.647	0.055	0	0	0	1
PL.62397	PL.62396	A	#1/0 ACSR	7.37Y	122.8	0.00	2.19	1.77	1	13	3	97	0.00	0.0	4.698	0.051	0	0	0	1
PL.62398	PL.62397	A	#1/0 ACSR	7.37Y	122.8	0.00	2.19	1.77	1	13	3	97	0.00	0.0	4.732	0.034	0	0	0	1
PL.62399	PL.62398	A	1/0 AL URD	7.37Y	122.8	0.00	2.19	1.77	1	13	3	97	0.00	0.0	4.778	0.046	13	3	1	1
PL.62394	PL.62695	A	6 A (CWC)	7.37Y	122.8	0.00	2.18	0.00	0	0	0	100	0.00	0.0	4.618	0.028	0	0	0	0
PL.33931	PL.62394	A	6 A (CWC)	7.37Y	122.8	0.00	2.18	0.00	0	0	0	100	0.00	0.0	4.702	0.084	0	0	0	0
PL.33187	PL.33281	A	#4 ACSR	7.37Y	122.8	0.00	2.18	0.00	0	0	0	100	0.00	0.0	4.587	0.045	0	0	0	0
PL.53528	PL.53524	A	#1/0 ACSR	7.40Y	123.3	0.00	1.69	0.57	0	4	1	97	0.00	0.0	3.866	0.004	0	0	0	1
PD.7909	PL.53528	A	10QA	7.40Y	123.3	0.00	1.69	0.57	0	4	1	97	0.00	0.0	3.866	0.004	0	0	0	1
PL.53529	PD.7909	A	#1/0 ACSR	7.40Y	123.3	0.00	1.69	0.57	0	4	1	97	0.00	0.0	3.894	0.028	4	1	1	1
PL.53526	PL.53524	A	6 A (CWC)	7.40Y	123.3	0.00	1.69	1.59	1	11	3	96	0.00	0.0	3.867	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.7908	PL.53526	A	10QA	7.40Y	123.3	0.00	1.69	1.59	0	11	3	96	0.00	0.0	3.867	0.005	0	0	0	1
PL.53527	PD.7908	A	6 A (CWC)	7.40Y	123.3	0.00	1.69	1.59	1	11	3	96	0.00	0.0	3.943	0.076	11	3	1	1
PL.33183	PL.33182	A	6 A (CWC)	7.41Y	123.5	0.00	1.50	2.35	2	17	5	96	0.00	0.0	3.463	0.006	0	0	0	2
PD.4965	PL.33183	A	50QA	7.41Y	123.5	0.00	1.50	2.35	5	17	5	96	0.00	0.0	3.463	0.006	0	0	0	2
PL.53515	PD.4965	A	6 A (CWC)	7.41Y	123.5	0.01	1.51	2.35	2	17	5	96	0.00	0.0	3.537	0.074	8	2	1	2
PL.53516	PL.53515	A	#1/0 ACSR	7.41Y	123.5	0.00	1.51	1.17	1	8	2	97	0.00	0.0	3.566	0.029	8	2	1	1
PL.33137	PL.33181	A	#4 ACSR	7.42Y	123.6	0.00	1.38	1.80	1	13	3	97	0.00	0.0	3.241	0.051	13	3	1	1
PL.33158	PL.33157	A	#4 ACSR	7.44Y	124.0	0.00	1.00	0.01	0	0	0	100	0.00	0.0	2.607	0.002	0	0	0	1
PD.4969	PL.33158	A	50QA	7.44Y	124.0	0.00	1.00	0.01	0	0	0	100	0.00	0.0	2.607	0.002	0	0	0	1
PL.33159	PD.4969	A	#4 ACSR	7.44Y	124.0	0.00	1.00	0.01	0	0	0	100	0.00	0.0	2.670	0.063	0	0	1	1
PL.34337	PL.34336	A	#2 ACSR	7.46Y	124.3	0.00	0.75	1.62	1	12	3	97	0.00	0.0	2.283	0.002	0	0	0	1
PD.4967	PL.34337	A	50QA	7.46Y	124.3	0.00	0.75	1.62	3	12	3	97	0.00	0.0	2.283	0.002	0	0	0	1
PL.55183	PD.4967	A	#2 ACSR	7.45Y	124.2	0.00	0.75	1.62	1	12	3	97	0.00	0.0	2.396	0.113	12	3	1	1
CP.52	PL.33326	ABC	Cap (300)	7.46Y	124.4	0.00	0.60	0.00	0	0	0	100	0.00	0.0	2.096	0.113	0	0	0	0
PL.59102	PL.59100	C	6 A (CWC)	7.46Y	124.3	0.15	0.68	54.45	39	392	108	96	0.44	0.1	2.074	0.061	0	0	0	57
PL.33447	PL.59102	C	6 A (CWC)	7.46Y	124.3	0.00	0.69	54.45	39	392	108	96	0.01	0.0	2.075	0.002	0	0	0	57
PD.4944	PL.33447	C	100L	7.46Y	124.3	0.00	0.69	54.45	54	392	108	96	0.00	0.0	2.075	0.002	0	0	0	57
PL.33152	PD.4944	C	6 A (CWC)	7.44Y	124.0	0.31	1.00	54.45	39	392	108	96	0.90	0.2	2.200	0.124	0	0	0	57
PL.33168	PL.33152	C	#2 ACSR	7.44Y	124.0	0.00	1.00	0.83	0	6	2	95	0.00	0.0	2.238	0.038	6	2	1	1
PL.33153	PL.33152	C	6 A (CWC)	7.43Y	123.9	0.14	1.13	53.62	38	385	105	96	0.39	0.1	2.256	0.056	0	0	0	56
PL.33329	PL.33153	C	#4 ACSR	7.43Y	123.9	0.00	1.13	2.08	2	15	4	97	0.00	0.0	2.257	0.001	0	0	0	1
PD.5007	PL.33329	C	40QA	7.43Y	123.9	0.00	1.13	2.08	5	15	4	97	0.00	0.0	2.257	0.001	0	0	0	1
PL.33275	PD.5007	C	#4 ACSR	7.43Y	123.9	0.00	1.14	2.08	2	15	4	97	0.00	0.0	2.307	0.050	15	4	1	1
PL.33154	PL.33153	C	6 A (CWC)	7.42Y	123.7	0.13	1.26	51.54	37	369	101	96	0.34	0.1	2.309	0.054	5	1	1	55
PL.33155	PL.33154	C	#4 ACSR	7.42Y	123.7	0.00	1.26	1.23	1	9	2	98	0.00	0.0	2.310	0.001	0	0	0	1
PD.4973	PL.33155	C	6T	7.42Y	123.7	0.00	1.26	1.23	0	9	2	98	0.00	0.0	2.310	0.001	0	0	0	1
PL.33156	PD.4973	C	#4 ACSR	7.42Y	123.7	0.00	1.26	1.23	1	9	2	98	0.00	0.0	2.337	0.027	9	2	1	1
PL.61216	PL.33154	C	6 A (CWC)	7.40Y	123.3	0.39	1.65	46.84	33	335	92	96	0.98	0.3	2.492	0.183	0	0	0	51
PL.61218	PL.61216	C	#1/0 ACSR	7.40Y	123.3	0.00	1.65	0.00	0	0	0	100	0.00	0.0	2.543	0.051	0	0	0	0
PL.61217	PL.61216	C	6 A (CWC)	7.38Y	123.1	0.27	1.92	46.84	33	334	91	96	0.67	0.2	2.618	0.126	0	0	0	51
PL.33276	PL.61217	C	6 A (CWC)	7.35Y	122.6	0.51	2.43	44.65	32	318	87	96	1.21	0.4	2.868	0.250	0	0	0	50

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33816	PL.33276	C	6 A (CWC)	7.35Y	122.6	0.00	2.43	9.61	7	68	18	97	0.00	0.0	2.870	0.002	0	0	0	10
PD.4992	PL.33816	C	40T	7.35Y	122.6	0.00	2.43	9.61	0	68	18	97	0.00	0.0	2.870	0.002	0	0	0	10
PL.34047	PD.4992	C	6 A (CWC)	7.35Y	122.5	0.06	2.49	9.61	7	68	18	97	0.03	0.0	3.008	0.139	0	0	0	10
PL.34048	PL.34047	C	6 A (CWC)	7.35Y	122.5	0.02	2.51	8.49	6	60	16	97	0.01	0.0	3.065	0.057	0	0	0	9
PL.59088	PL.34048	C	#1/0 ACSR	7.35Y	122.5	0.00	2.52	1.36	1	10	3	96	0.00	0.0	3.069	0.004	0	0	0	1
PD.8671	PL.59088	C	15T	7.35Y	122.5	0.00	2.52	1.36	0	10	3	96	0.00	0.0	3.069	0.004	0	0	0	1
PL.59089	PD.8671	C	#1/0 ACSR	7.35Y	122.5	0.00	2.52	1.36	1	10	3	96	0.00	0.0	3.149	0.081	10	3	1	1
PL.34329	PL.34048	C	6 A (CWC)	7.35Y	122.5	0.01	2.53	5.72	4	41	11	97	0.00	0.0	3.114	0.049	9	3	2	7
PL.34330	PL.34329	C	6 A (CWC)	7.35Y	122.5	0.02	2.54	4.38	3	31	8	97	0.00	0.0	3.204	0.090	8	2	1	5
PL.33148	PL.34330	C	#4 ACSR	7.35Y	122.5	0.00	2.54	1.43	1	10	3	96	0.00	0.0	3.257	0.054	10	3	1	1
PL.34049	PL.34330	C	6 A (CWC)	7.35Y	122.5	0.00	2.55	1.83	1	13	4	96	0.00	0.0	3.299	0.095	13	4	3	3
PL.33195	PL.34048	C	#2 ACSR	7.35Y	122.5	0.00	2.52	1.41	1	10	3	96	0.00	0.0	3.122	0.057	10	3	1	1
PL.33615	PL.34047	C	6 A (CWC)	7.35Y	122.5	0.01	2.50	1.13	1	8	2	97	0.00	0.0	3.220	0.212	0	0	0	1
PL.33618	PL.33615	C	6 A (CWC)	7.35Y	122.5	0.00	2.51	1.13	1	8	2	97	0.00	0.0	3.247	0.027	0	0	0	1
PL.55173	PL.33618	C	6 A (CWC)	7.35Y	122.5	0.00	2.51	1.13	1	8	2	97	0.00	0.0	3.310	0.063	0	0	0	1
PL.55175	PL.55173	C	#2 ACSR	7.35Y	122.5	0.00	2.51	0.00	0	0	0	100	0.00	0.0	3.340	0.030	0	0	0	0
PL.55174	PL.55173	C	6 A (CWC)	7.35Y	122.5	0.00	2.51	1.13	1	8	2	97	0.00	0.0	3.408	0.098	8	2	1	1
PL.55172	PL.55174	C	6 A (CWC)	7.35Y	122.5	0.00	2.51	0.00	0	0	0	100	0.00	0.0	3.483	0.075	0	0	0	0
PL.33817	PL.33276	C	6 A (CWC)	7.35Y	122.6	0.00	2.43	5.64	4	40	11	96	0.00	0.0	2.870	0.002	0	0	0	9
PD.4979	PL.33817	C	40T	7.35Y	122.6	0.00	2.43	5.64	0	40	11	96	0.00	0.0	2.870	0.002	0	0	0	9
PL.33544	PD.4979	C	6 A (CWC)	7.35Y	122.5	0.03	2.46	5.64	4	40	11	96	0.01	0.0	2.999	0.129	0	0	0	9
PL.33545	PL.33544	C	6 A (CWC)	7.35Y	122.5	0.00	2.47	5.54	4	39	11	96	0.00	0.0	3.022	0.023	14	4	1	8
PL.34046	PL.33545	C	6 A (CWC)	7.35Y	122.5	0.03	2.50	3.51	3	25	7	96	0.01	0.0	3.203	0.182	0	0	0	7
PL.34331	PL.34046	C	6 A (CWC)	7.35Y	122.5	0.01	2.50	3.51	3	25	7	96	0.00	0.0	3.237	0.034	0	0	0	7
PL.33196	PL.34331	C	6 A (CWC)	7.35Y	122.5	0.00	2.51	0.48	0	3	1	95	0.00	0.0	3.297	0.060	0	0	0	2
PL.33197	PL.33196	C	6 A (CWC)	7.35Y	122.5	0.00	2.51	0.00	0	0	0	100	0.00	0.0	3.327	0.030	0	0	0	0
PL.33198	PL.33196	C	6 A (CWC)	7.35Y	122.5	0.00	2.51	0.48	0	3	1	95	0.00	0.0	3.538	0.242	2	1	1	2
PL.33199	PL.33198	C	6 A (CWC)	7.35Y	122.5	0.00	2.51	0.13	0	1	0	100	0.00	0.0	3.599	0.061	1	0	1	1
PL.34332	PL.34331	C	#4 ACSR	7.35Y	122.5	0.02	2.52	3.04	2	22	6	96	0.00	0.0	3.401	0.164	11	3	2	5
PL.33293	PL.34332	C	#4 ACSR	7.35Y	122.5	0.00	2.52	0.91	1	6	2	95	0.00	0.0	3.451	0.050	6	2	1	1
PL.34333	PL.34332	C	#4 ACSR	7.35Y	122.5	0.00	2.52	0.53	0	4	1	97	0.00	0.0	3.447	0.046	4	1	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33144	PL.33544	C	#2 ACSR	7.35Y	122.5	0.00	2.46	0.09	0	1	0	100	0.00	0.0	3.046	0.047	1	0	1	1
PL.57413	PL.33276	C	6 A (CWC)	7.35Y	122.6	0.01	2.44	29.40	21	209	57	96	0.01	0.0	2.873	0.005	0	0	0	31
PD.8283	PL.57413	C	25T	7.35Y	122.6	0.00	2.44	29.40	0	209	57	96	0.00	0.0	2.873	0.005	0	0	0	31
PL.57411	PD.8283	C	6 A (CWC)	7.35Y	122.4	0.13	2.57	29.40	21	209	57	96	0.20	0.1	2.976	0.102	18	5	2	31
PL.57412	PL.57411	C	6 A (CWC)	7.34Y	122.3	0.11	2.68	26.87	19	190	52	96	0.15	0.1	3.065	0.089	12	3	2	29
PL.55167	PL.57412	C	6 A (CWC)	7.33Y	122.2	0.11	2.78	25.21	18	179	48	97	0.14	0.1	3.158	0.093	0	0	0	27
PL.55181	PL.55167	C	6 A (CWC)	7.33Y	122.2	0.03	2.82	17.24	12	122	33	97	0.03	0.0	3.201	0.044	0	0	0	18
PL.55182	PL.55181	C	6 A (CWC)	7.33Y	122.1	0.08	2.90	17.24	12	122	33	97	0.08	0.1	3.305	0.104	0	0	0	18
PL.55170	PL.55182	C	6 A (CWC)	7.33Y	122.1	0.02	2.92	16.33	12	115	31	97	0.01	0.0	3.330	0.024	10	3	1	17
PL.55171	PL.55170	C	6 A (CWC)	7.32Y	121.9	0.14	3.06	14.91	11	105	29	96	0.11	0.1	3.541	0.212	0	0	0	16
PL.53591	PL.55171	C	6 A (CWC)	7.31Y	121.9	0.07	3.13	11.51	8	81	22	97	0.04	0.1	3.675	0.133	0	0	0	13
PL.53592	PL.53591	C	6 A (CWC)	7.31Y	121.8	0.04	3.17	7.75	6	55	15	96	0.02	0.0	3.790	0.115	3	1	1	7
PL.33369	PL.53592	C	6 A (CWC)	7.31Y	121.8	0.03	3.20	7.30	5	52	14	97	0.01	0.0	3.890	0.100	0	0	0	6
PL.55387	PL.33369	C	#4 ACSR	7.31Y	121.8	0.00	3.21	1.07	1	8	2	97	0.00	0.0	3.939	0.049	8	2	1	1
PL.55164	PL.33369	C	6 A (CWC)	7.30Y	121.7	0.05	3.25	3.58	3	25	7	96	0.01	0.0	4.202	0.312	0	0	0	3
PL.55165	PL.55164	C	6 A (CWC)	7.30Y	121.7	0.00	3.26	3.58	3	25	7	96	0.00	0.0	4.233	0.031	10	3	1	3
PL.55388	PL.55165	C	6 A (CWC)	7.30Y	121.7	0.00	3.26	1.30	1	9	2	98	0.00	0.0	4.270	0.037	9	2	1	1
PL.64440	PL.55165	C	#1/0 ACSR	7.30Y	121.7	0.00	3.26	0.92	0	7	2	96	0.00	0.0	4.262	0.029	0	0	0	1
PL.64441	PL.64440	C	#1/0 ACSR	7.30Y	121.7	0.00	3.26	0.92	0	7	2	96	0.00	0.0	4.310	0.047	0	0	0	1
PL.64442	PL.64441	C	#1/0 ACSR	7.30Y	121.7	0.00	3.26	0.92	0	7	2	96	0.00	0.0	4.384	0.074	7	2	1	1
PL.62784	PL.33369	C	6 A (CWC)	7.31Y	121.8	0.00	3.21	2.66	2	19	5	97	0.00	0.0	3.939	0.049	19	5	2	2
PL.53593	PL.53591	C	6 A (CWC)	7.31Y	121.9	0.01	3.14	3.76	3	27	7	97	0.00	0.0	3.718	0.043	0	0	0	6
PL.53594	PL.53593	C	6 A (CWC)	7.31Y	121.9	0.01	3.15	3.76	3	27	7	97	0.00	0.0	3.784	0.066	4	1	1	6
PL.55195	PL.53594	C	6 A (CWC)	7.31Y	121.8	0.01	3.16	2.95	2	21	6	96	0.00	0.0	3.832	0.048	0	0	0	4
PL.55194	PL.55195	C	6 A (CWC)	7.31Y	121.8	0.00	3.16	1.11	1	8	2	97	0.00	0.0	3.862	0.030	7	2	1	2
PL.33286	PL.55194	C	6 A (CWC)	7.31Y	121.8	0.00	3.16	0.13	0	1	0	100	0.00	0.0	3.891	0.029	1	0	1	1
PL.55196	PL.55195	C	6 A (CWC)	7.31Y	121.8	0.01	3.16	1.84	1	13	4	96	0.00	0.0	3.909	0.077	0	0	0	2
PL.55192	PL.55196	C	#1/0 ACSR	7.31Y	121.8	0.00	3.16	1.84	1	13	4	96	0.00	0.0	3.914	0.005	0	0	0	2
PD.8215	PL.55192	C	20QA	7.31Y	121.8	0.00	3.16	1.84	9	13	4	96	0.00	0.0	3.914	0.005	0	0	0	2
PL.55193	PD.8215	C	#1/0 ACSR	7.31Y	121.8	0.00	3.16	1.84	1	13	4	96	0.00	0.0	4.032	0.118	13	4	2	2
PL.57902	PL.53594	C	#4 ACSR	7.31Y	121.9	0.00	3.15	0.24	0	2	0	100	0.00	0.0	3.864	0.080	2	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33818	PL.55171	C	6 A (CWC)	7.32Y	121.9	0.01	3.07	3.40	2	24	6	97	0.00	0.0	3.598	0.057	0	0	0	3
PL.59079	PL.33818	C	#2 ACSR	7.32Y	121.9	0.00	3.07	0.95	1	7	2	96	0.00	0.0	3.689	0.091	7	2	1	1
PL.59080	PL.59079	C	#2 ACSR	7.32Y	121.9	0.00	3.07	0.00	0	0	0	100	0.00	0.0	3.811	0.122	0	0	0	0
PL.61209	PL.33818	C	#1/0 ACSR	7.32Y	121.9	0.00	3.07	1.42	1	10	3	96	0.00	0.0	3.601	0.004	0	0	0	1
PD.9106	PL.61209	C	15T	7.32Y	121.9	0.00	3.07	1.42	0	10	3	96	0.00	0.0	3.601	0.004	0	0	0	1
PL.61210	PD.9106	C	#1/0 ACSR	7.32Y	121.9	0.00	3.07	1.42	1	10	3	96	0.00	0.0	3.649	0.048	10	3	1	1
PL.55166	PL.33818	C	6 A (CWC)	7.32Y	121.9	0.00	3.07	1.03	1	7	2	96	0.00	0.0	3.669	0.071	7	2	1	1
PL.55389	PL.55170	C	#4 ACSR	7.33Y	122.1	0.00	2.92	0.00	0	0	0	100	0.00	0.0	3.426	0.096	0	0	0	0
PL.55169	PL.55182	C	#4 ACSR	7.33Y	122.1	0.00	2.90	0.90	1	6	2	95	0.00	0.0	3.355	0.050	6	2	1	1
PL.55390	PL.55167	C	#4 ACSR	7.33Y	122.2	0.01	2.79	4.32	3	31	8	97	0.00	0.0	3.203	0.046	9	2	1	3
PL.55391	PL.55390	C	#4 ACSR	7.33Y	122.2	0.00	2.79	3.08	2	22	6	96	0.00	0.0	3.258	0.055	22	6	2	2
PL.55168	PL.55167	C	#4 ACSR	7.33Y	122.2	0.01	2.79	3.66	3	26	7	97	0.00	0.0	3.200	0.043	3	1	1	6
PL.55179	PL.55168	C	#4 ACSR	7.33Y	122.2	0.01	2.79	3.23	2	23	6	97	0.00	0.0	3.252	0.052	14	4	2	5
PL.55180	PL.55179	C	#1/0 ACSR	7.33Y	122.2	0.00	2.80	1.30	1	9	2	98	0.00	0.0	3.274	0.022	9	2	3	3
PL.55547	PL.61217	C	#4 ACSR	7.38Y	123.1	0.00	1.92	2.19	2	16	4	97	0.00	0.0	2.621	0.003	0	0	0	1
PD.8199	PL.55547	C	40QA	7.38Y	123.1	0.00	1.92	2.19	5	16	4	97	0.00	0.0	2.621	0.003	0	0	0	1
PL.55548	PD.8199	C	#4 ACSR	7.38Y	123.1	0.00	1.92	2.19	2	16	4	97	0.00	0.0	2.659	0.038	16	4	1	1
PL.33231	PL.61217	C	#4 ACSR	7.38Y	123.1	0.00	1.92	0.00	0	0	0	100	0.00	0.0	2.633	0.015	0	0	0	0
PL.33533	PL.33154	C	#4 ACSR	7.42Y	123.7	0.01	1.26	2.75	2	20	5	97	0.00	0.0	2.376	0.066	14	4	1	2
PL.61234	PL.33533	C	#1/0 ACSR	7.42Y	123.7	0.00	1.27	0.80	0	6	2	95	0.00	0.0	2.436	0.061	6	2	1	1
PL.61194	PL.61192	B	#1/0 ACSR	7.35Y	122.4	0.00	2.57	0.34	0	2	1	89	0.00	0.0	1.738	0.004	0	0	0	1
PD.9102	PL.61194	B	10T	7.35Y	122.4	0.00	2.57	0.34	0	2	1	89	0.00	0.0	1.738	0.004	0	0	0	1
PL.61195	PD.9102	B	#1/0 ACSR	7.35Y	122.4	0.00	2.57	0.34	0	2	1	89	0.00	0.0	1.769	0.030	2	1	1	1
PL.33145	PL.34317	C	6 A (CWC)	7.36Y	122.6	0.00	2.37	0.79	1	6	2	95	0.00	0.0	1.616	0.060	6	2	1	1
PL.33813	PL.34319	A	6 A (CWC)	7.37Y	122.8	0.00	2.17	3.96	3	28	8	96	0.00	0.0	1.375	0.000	0	0	0	8
PD.4972	PL.33813	A	75QA	7.37Y	122.8	0.00	2.17	3.96	5	28	8	96	0.00	0.0	1.375	0.000	0	0	0	8
PL.33814	PD.4972	A	6 A (CWC)	7.37Y	122.8	0.01	2.17	3.96	3	28	8	96	0.00	0.0	1.435	0.060	22	6	2	8
PL.34320	PL.33814	A	6 A (CWC)	7.37Y	122.8	0.00	2.18	0.89	1	6	2	95	0.00	0.0	1.465	0.030	2	0	1	6
PL.33811	PL.34320	A	6 A (CWC)	7.37Y	122.8	0.00	2.18	0.66	0	5	1	98	0.00	0.0	1.492	0.027	5	1	5	5
PL.33812	PL.33811	A	6 A (CWC)	7.37Y	122.8	0.00	2.18	0.00	0	0	0	100	0.00	0.0	1.524	0.032	0	0	0	0
PL.63859	PL.63854	C	#1/0 ACSR	7.41Y	123.4	0.00	1.56	54.88	24	383	135	94	0.01	0.0	0.873	0.003	0	0	0	31

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

Balanced Voltage Drop Report
Source: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.9491	PL.63859	C	50T	7.41Y	123.4	0.00	1.56	54.88	0	383	135	94	0.00	0.0	0.873	0.003	0	0	0	31
PL.63860	PD.9491	C	#1/0 ACSR	7.40Y	123.3	0.11	1.68	54.88	24	383	135	94	0.27	0.1	0.959	0.086	12	3	2	31
PL.63852	PL.63860	C	6 A (CWC)	7.40Y	123.3	0.00	1.68	4.75	3	34	9	97	0.00	0.0	1.000	0.041	34	9	1	1
PL.63853	PL.63860	C	6 A (CWC)	7.40Y	123.3	0.05	1.73	48.41	35	337	122	94	0.13	0.0	0.982	0.023	0	0	0	28
PL.61220	PL.63853	C	6 A (CWC)	7.39Y	123.2	0.09	1.82	26.84	19	192	52	97	0.13	0.1	1.059	0.076	11	3	1	27
PL.61221	PL.61220	C	6 A (CWC)	7.38Y	123.1	0.10	1.92	25.27	18	180	49	96	0.13	0.1	1.145	0.086	0	0	0	26
PL.59103	PL.61221	C	6 A (CWC)	7.38Y	123.1	0.00	1.92	0.96	1	7	2	96	0.00	0.0	1.218	0.073	7	2	2	2
PL.33321	PL.61221	C	6 A (CWC)	7.38Y	123.1	0.00	1.92	1.82	1	13	4	96	0.00	0.0	1.208	0.063	3	1	1	3
PL.33322	PL.33321	C	6 A (CWC)	7.38Y	123.1	0.01	1.93	1.34	1	10	3	96	0.00	0.0	1.353	0.145	0	0	0	2
PL.33323	PL.33322	C	6 A (CWC)	7.38Y	123.1	0.00	1.94	1.34	1	10	3	96	0.00	0.0	1.445	0.092	10	3	2	2
PL.61420	PL.61221	C	6 A (CWC)	7.38Y	122.9	0.15	2.07	22.49	16	160	43	97	0.18	0.1	1.297	0.152	10	3	1	21
PL.61421	PL.61420	C	6 A (CWC)	7.38Y	122.9	0.01	2.08	1.22	1	9	2	98	0.00	0.0	1.400	0.103	2	1	1	2
PL.33628	PL.61421	C	6 A (CWC)	7.38Y	122.9	0.00	2.08	0.94	1	7	2	96	0.00	0.0	1.418	0.017	7	2	1	1
PL.61419	PL.61420	C	6 A (CWC)	7.37Y	122.9	0.05	2.12	19.87	14	141	38	97	0.05	0.0	1.359	0.062	17	4	1	18
PL.61422	PL.61419	C	6 A (CWC)	7.37Y	122.8	0.04	2.16	17.54	13	125	34	96	0.03	0.0	1.404	0.046	0	0	0	17
PL.61416	PL.61422	C	6 A (CWC)	7.37Y	122.8	0.01	2.17	1.19	1	9	2	98	0.00	0.0	1.648	0.243	9	2	1	1
PL.61417	PL.61422	C	6 A (CWC)	7.37Y	122.8	0.08	2.24	14.22	10	101	27	97	0.06	0.1	1.531	0.127	7	2	2	13
PL.61183	PL.61417	C	6 A (CWC)	7.36Y	122.7	0.04	2.28	13.21	9	94	25	97	0.03	0.0	1.592	0.061	0	0	0	11
PL.61182	PL.61183	C	#2 ACSR	7.36Y	122.7	0.02	2.29	7.48	4	53	14	97	0.01	0.0	1.668	0.076	11	3	1	4
PL.53806	PL.61182	C	#1/0 ACSR	7.36Y	122.7	0.02	2.31	5.91	3	42	11	97	0.00	0.0	1.812	0.144	20	5	1	3
PL.59094	PL.53806	C	#1/0 ACSR	7.36Y	122.7	0.00	2.31	3.16	1	22	6	96	0.00	0.0	1.850	0.039	0	0	0	2
PL.59095	PL.59094	C	#1/0 ACSR	7.36Y	122.7	0.00	2.31	2.21	1	16	4	97	0.00	0.0	1.899	0.048	16	4	1	1
PL.59096	PL.59094	C	#1/0 ACSR	7.36Y	122.7	0.00	2.31	0.95	0	7	2	96	0.00	0.0	1.930	0.080	7	2	1	1
PL.62689	PL.61183	C	6 A (CWC)	7.36Y	122.7	0.04	2.31	5.73	4	41	11	97	0.01	0.0	1.749	0.157	8	2	1	7
PL.61185	PL.62689	C	6 A (CWC)	7.36Y	122.7	0.00	2.32	1.58	1	11	3	96	0.00	0.0	1.825	0.075	11	3	2	3
PL.61184	PL.61185	C	6 A (CWC)	7.36Y	122.7	0.00	2.32	0.00	0	0	0	100	0.00	0.0	1.993	0.168	0	0	1	1
PL.61187	PL.62689	C	#1/0 ACSR	7.36Y	122.7	0.00	2.31	3.07	1	22	6	96	0.00	0.0	1.752	0.003	0	0	0	3
PD.9101	PL.61187	C	10T	7.36Y	122.7	0.00	2.31	3.07	0	22	6	96	0.00	0.0	1.752	0.003	0	0	0	3
PL.61188	PD.9101	C	#1/0 ACSR	7.36Y	122.7	0.01	2.32	3.07	1	22	6	96	0.00	0.0	1.902	0.149	10	3	2	3
PL.61186	PL.61188	C	1/0 AL URD	7.36Y	122.7	0.00	2.32	1.67	1	12	3	97	0.00	0.0	1.959	0.057	12	3	1	1
PL.61418	PL.61422	C	6 A (CWC)	7.37Y	122.8	0.00	2.16	2.13	2	15	4	97	0.00	0.0	1.408	0.003	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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.4996	PL.61418	C	25T	7.37Y	122.8	0.00	2.16	2.13	0	15	4	97	0.00	0.0	1.408	0.003	0	0	0	3
PL.33629	PD.4996	C	6 A (CWC)	7.37Y	122.8	0.01	2.17	2.13	2	15	4	97	0.00	0.0	1.580	0.172	5	1	1	3
PL.33630	PL.33629	C	6 A (CWC)	7.37Y	122.8	0.01	2.18	1.40	1	10	3	96	0.00	0.0	1.671	0.091	2	0	1	2
PL.33631	PL.33630	C	6 A (CWC)	7.37Y	122.8	0.00	2.18	1.17	1	8	2	97	0.00	0.0	1.741	0.070	8	2	1	1
PL.61219	PL.63853	C	6 A (CWC)	7.39Y	123.2	0.05	1.78	21.78	16	145	70	90	0.06	0.0	1.035	0.053	0	0	0	1
PL.33543	PL.61219	C	6 A (CWC)	7.39Y	123.2	0.01	1.79	21.78	16	145	70	90	0.01	0.0	1.050	0.015	145	70	1	1
PL.62400	PL.62402	A	#4 ACSR	7.47Y	124.4	0.00	0.57	3.26	3	23	6	97	0.00	0.0	0.382	0.000	0	0	0	3
PD.4922	PL.62400	A	75QA	7.47Y	124.4	0.00	0.57	3.26	4	23	6	97	0.00	0.0	0.382	0.000	0	0	0	3
PL.33320	PD.4922	A	#4 ACSR	7.47Y	124.4	0.00	0.57	3.26	3	23	6	97	0.00	0.0	0.418	0.037	13	4	2	3
PL.61189	PL.33320	A	#1/0 ACSR	7.47Y	124.4	0.00	0.57	1.39	1	10	3	96	0.00	0.0	0.441	0.023	10	3	1	1
PL.62733	PL.62402	B	#1/0 ACSR	7.47Y	124.4	0.00	0.57	1.43	1	10	3	96	0.00	0.0	0.384	0.003	0	0	0	2
PD.9519	PL.62733	B	25T	7.47Y	124.4	0.00	0.57	1.43	0	10	3	96	0.00	0.0	0.384	0.003	0	0	0	2
PL.62734	PD.9519	B	#1/0 ACSR	7.47Y	124.4	0.00	0.57	1.43	1	10	3	96	0.00	0.0	0.403	0.019	9	2	1	2
PL.62735	PL.62734	B	#1/0 ACSR	7.47Y	124.4	0.00	0.57	0.19	0	1	0	100	0.00	0.0	0.460	0.057	0	0	0	1
PL.62736	PL.62735	B	#1/0 ACSR	7.47Y	124.4	0.00	0.57	0.19	0	1	0	100	0.00	0.0	0.517	0.057	0	0	0	1
PL.62737	PL.62736	B	#1/0 ACSR	7.47Y	124.4	0.00	0.57	0.19	0	1	0	100	0.00	0.0	0.574	0.057	1	0	1	1
PL.33493	PL.33515	A	#4 ACSR	7.47Y	124.5	0.00	0.50	1.43	1	10	3	96	0.00	0.0	0.350	0.000	0	0	0	1
PD.5011	PL.33493	A	75QA	7.47Y	124.5	0.00	0.50	1.43	2	10	3	96	0.00	0.0	0.350	0.000	0	0	0	1
PL.33494	PD.5011	A	#4 ACSR	7.47Y	124.5	0.00	0.50	1.43	1	10	3	96	0.00	0.0	0.365	0.016	10	3	1	1
PL.34392	PL.33549	C	#4 ACSR	7.49Y	124.8	0.00	0.17	5.20	4	38	10	97	0.00	0.0	0.194	0.001	0	0	0	3
PD.4921	PL.34392	C	75QA	7.49Y	124.8	0.00	0.17	5.20	7	38	10	97	0.00	0.0	0.194	0.001	0	0	0	3
PL.34393	PD.4921	C	#4 ACSR	7.49Y	124.8	0.01	0.18	5.20	4	38	10	97	0.00	0.0	0.233	0.039	27	7	2	3
PL.64050	PL.34393	C	#1/0 ACSR	7.49Y	124.8	0.00	0.18	1.48	1	11	3	96	0.00	0.0	0.294	0.061	11	3	1	1

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	9428	0	0	0	0	0	265	0.00	9693
KVAR	2599	0	0	0	0	0	397		2996

Lowest Voltage = 118.27 on Element PL.57880
Max Accm VoltD = 6.73 on Element PL.57880
Max Elem VoltD = 0.51 on Element PL.33276

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: Bush

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

Units Displayed In Volts
-Base Voltage:120.0-

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