Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
Conway		ABC	SRC-Conway	7.50Y	125.0	0.00	0.00	438.90	0	9381	3084	95	0.00	0.0	0.000	0.000	0	0	0	1275
PL.62144	Conway	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	92.43	18	1991	600	96	0.04	0.0	0.006	0.006	0	0	0	242
PL.62150	PL.62144	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	92.43	18	1991	600	96	0.07	0.0	0.015	0.009	0	0	0	242
---------- Feeder No. 2 (Flat Gap F2) Beginning with Device PD.9331 ----------																				
PD.9331	PL.62150	ABC	480VWE	7.50Y	125.0	0.00	0.01	92.43	0	1991	600	96	0.00	0.0	0.015	0.009	0	0	0	242
PL.62149	PD.9331	ABC	336 MCM AC	7.50Y	125.0	0.04	0.05	92.43	18	1991	600	96	0.40	0.0	0.070	0.055	0	0	0	242
PL.62148	PL.62149	ABC	336 MCM AC	7.48Y	124.7	0.22	0.27	92.43	18	1991	599	96	2.23	0.1	0.379	0.310	0	0	0	242
PL.62147	PL.62148	ABC	336 MCM AC	7.48Y	124.7	0.03	0.30	92.43	18	1989	594	96	0.31	0.0	0.422	0.043	5	2	2	242
PL.62145	PL.62147	C	#4 ACSR	7.48Y	124.7	0.00	0.30	0.16	0	1	0	100	0.00	0.0	0.426	0.004	0	0	0	1
PD.9313	PL.62145	C	40QA	7.48Y	124.7	0.00	0.30	0.16	0	1	0	100	0.00	0.0	0.426	0.004	0	0	0	1
PL.62126	PD.9313	C	#4 ACSR	7.48Y	124.7	0.00	0.30	0.16	0	1	0	100	0.00	0.0	0.453	0.027	1	0	1	1
PL.62146	PL.62147	ABC	336 MCM AC	7.48Y	124.7	0.02	0.32	92.13	18	1982	591	96	0.23	0.0	0.454	0.032	0	0	1	239
PL.62132	PL.62146	ABC	336 MCM AC	7.47Y	124.6	0.13	0.45	92.12	18	1981	591	96	1.29	0.1	0.635	0.181	15	4	1	238
PL.62133	PL.62132	ABC	336 MCM AC	7.47Y	124.5	0.04	0.49	91.17	18	1959	582	96	0.43	0.0	0.697	0.062	0	0	0	236
PL.37642	PL.62133	ABC	#1/0 ACSR	7.47Y	124.5	0.05	0.54	90.90	40	1953	579	96	0.62	0.0	0.725	0.028	0	0	0	235
PL.37362	PL.37642	A	#2 ACSR	7.47Y	124.5	0.00	0.54	3.09	2	22	6	96	0.00	0.0	0.726	0.001	0	0	0	2
PD.6082	PL.37362	A	60QA	7.47Y	124.5	0.00	0.54	3.09	5	22	6	96	0.00	0.0	0.726	0.001	0	0	0	2
PL.37363	PD.6082	A	#2 ACSR	7.47Y	124.5	0.00	0.54	3.09	2	22	6	96	0.00	0.0	0.740	0.014	22	6	2	2
PL.36735	PL.37642	ABC	#1/0 ACSR	7.46Y	124.4	0.07	0.61	89.87	39	1930	572	96	0.98	0.1	0.772	0.046	35	10	3	233
PL.59576	PL.36735	ABC	#1/0 ACSR	7.46Y	124.3	0.04	0.65	88.26	38	1895	561	96	0.57	0.0	0.799	0.027	0	0	0	230
PL.59577	PL.59576	ABC	#1/0 ACSR	7.46Y	124.3	0.08	0.74	87.32	38	1874	555	96	1.08	0.1	0.852	0.053	0	0	0	227
PL.59573	PL.59577	ABC	#1/0 ACSR	7.45Y	124.2	0.07	0.80	87.32	38	1873	553	96	0.84	0.0	0.893	0.041	0	0	0	227
PL.59574	PL.59573	A	#2 ACSR	7.45Y	124.2	0.00	0.81	3.75	2	27	8	96	0.00	0.0	0.911	0.018	27	8	2	2
PL.36745	PL.59574	A	#2 ACSR	7.45Y	124.2	0.00	0.81	0.00	0	0	0	100	0.00	0.0	0.940	0.028	0	0	0	0
PL.59572	PL.59573	ABC	#1/0 ACSR	7.45Y	124.2	0.01	0.82	61.48	27	1318	390	96	0.11	0.0	0.904	0.011	0	0	0	154
PL.37038	PL.59572	ABC	#1/0 ACSR	7.45Y	124.1	0.05	0.87	61.48	27	1318	390	96	0.45	0.0	0.948	0.044	0	0	0	154
PL.37391	PL.37038	ABC	#1/0 ACSR	7.44Y	124.1	0.06	0.93	61.32	27	1314	388	96	0.53	0.0	1.002	0.053	0	0	0	153
PL.38121	PL.37391	ABC	#1/0 ACSR	7.44Y	124.0	0.07	1.00	60.58	26	1298	383	96	0.62	0.0	1.066	0.064	26	8	3	152
PL.38122	PL.38121	ABC	#1/0 ACSR	7.43Y	123.9	0.14	1.13	59.37	26	1271	375	96	1.21	0.1	1.194	0.129	0	0	0	149
PD.5912	PL.38122	ABC	100L	7.43Y	123.9	0.00	1.13	59.37	59	1270	374	96	0.00	0.0	1.194	0.129	0	0	0	149

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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38123	PD.5912	ABC	#1/0 ACSR	7.43Y	123.9	0.00	1.14	59.37	26	1270	374	96	0.01	0.0	1.195	0.001	0	0	0	149
PL.37834	PL.38123	ABC	#1/0 ACSR	7.43Y	123.8	0.04	1.17	59.37	26	1270	374	96	0.34	0.0	1.231	0.036	0	0	0	149
PL.38707	PL.37834	ABC	#1/0 ACSR	7.42Y	123.7	0.18	1.35	56.71	25	1213	357	96	1.46	0.1	1.401	0.170	0	0	0	142
PL.38705	PL.38707	A	#2 ACSR	7.42Y	123.6	0.00	1.35	0.59	0	4	1	97	0.00	0.0	1.404	0.002	0	0	0	1
PD.5960	PL.38705	A	40QA	7.42Y	123.6	0.00	1.35	0.59	1	4	1	97	0.00	0.0	1.404	0.002	0	0	0	1
PL.38706	PD.5960	A	#2 ACSR	7.42Y	123.6	0.00	1.35	0.59	0	4	1	97	0.00	0.0	1.457	0.053	4	1	1	1
PL.37679	PL.38707	ABC	#1/0 ACSR	7.42Y	123.6	0.05	1.40	56.52	25	1207	354	96	0.38	0.0	1.446	0.045	0	0	0	141
PL.64240	PL.37679	ABC	#1/0 ACSR	7.41Y	123.5	0.07	1.47	54.47	24	1163	341	96	0.59	0.1	1.521	0.075	0	0	0	137
PL.64004	PL.64240	C	#2 ACSR	7.41Y	123.5	0.00	1.47	4.73	3	34	10	96	0.00	0.0	1.524	0.003	0	0	0	2
PD.9504	PL.64004	C	20QA	7.41Y	123.5	0.00	1.47	4.73	24	34	10	96	0.00	0.0	1.524	0.003	0	0	0	2
PL.64160	PD.9504	C	#2 ACSR	7.41Y	123.5	0.01	1.48	4.73	3	34	10	96	0.00	0.0	1.570	0.045	15	5	1	2
PL.64157	PL.64160	C	#2 ACSR	7.41Y	123.5	0.00	1.48	2.55	1	18	5	96	0.00	0.0	1.642	0.072	18	5	1	1
PL.64241	PL.64240	ABC	#1/0 ACSR	7.41Y	123.5	0.06	1.53	52.90	23	1129	331	96	0.46	0.0	1.582	0.061	0	0	0	135
PL.64243	PL.64241	A	#4 ACSR	7.41Y	123.5	0.00	1.53	12.17	9	87	25	96	0.00	0.0	1.584	0.002	0	0	0	9
PD.6081	PL.64243	A	40QA	7.41Y	123.5	0.00	1.53	12.17	30	87	25	96	0.00	0.0	1.584	0.002	0	0	0	9
PL.37856	PD.6081	A	#4 ACSR	7.41Y	123.4	0.03	1.56	12.17	9	87	25	96	0.02	0.0	1.636	0.052	13	4	1	9
PL.38708	PL.37856	A	#4 ACSR	7.41Y	123.4	0.01	1.56	10.31	8	73	21	96	0.00	0.0	1.661	0.025	50	15	5	8
PL.38710	PL.38708	A	#4 ACSR	7.41Y	123.4	0.00	1.57	3.28	3	23	7	96	0.00	0.0	1.674	0.013	0	0	0	3
PL.38711	PL.38710	A	#4 ACSR	7.41Y	123.4	0.00	1.57	3.28	3	23	7	96	0.00	0.0	1.684	0.010	23	7	3	3
PL.64003	PL.64241	A	#4 ACSR	7.41Y	123.5	0.00	1.53	29.29	23	208	61	96	0.01	0.0	1.585	0.002	0	0	0	25
PD.9503	PL.64003	A	40QA	7.41Y	123.5	0.00	1.53	29.29	73	208	61	96	0.00	0.0	1.585	0.002	0	0	0	25
PL.64024	PD.9503	A	#4 ACSR	7.40Y	123.4	0.12	1.65	29.29	23	208	61	96	0.18	0.1	1.677	0.092	17	5	2	25
PL.64023	PL.64024	A	#4 ACSR	7.39Y	123.2	0.14	1.79	26.85	21	191	56	96	0.20	0.1	1.798	0.122	8	2	1	23
PL.64028	PL.64023	A	#4 ACSR	7.39Y	123.2	0.01	1.80	3.82	3	27	8	96	0.00	0.0	1.843	0.044	7	2	2	4
PL.64016	PL.64028	A	#4 ACSR	7.39Y	123.2	0.00	1.80	2.89	2	20	6	96	0.00	0.0	1.874	0.031	20	6	2	2
PL.64031	PL.64023	A	#4 ACSR	7.39Y	123.1	0.12	1.91	21.88	17	155	45	96	0.14	0.1	1.920	0.121	3	1	1	18
PL.64030	PL.64031	A	#4 ACSR	7.38Y	123.1	0.03	1.94	21.47	17	152	44	96	0.03	0.0	1.953	0.033	37	11	4	17
PL.64011	PL.64030	A	#4 ACSR	7.38Y	123.0	0.03	1.96	8.69	7	62	18	96	0.01	0.0	2.031	0.078	9	3	1	5
PL.64012	PL.64011	A	#4 ACSR	7.38Y	123.0	0.01	1.98	7.44	6	53	15	96	0.00	0.0	2.089	0.058	41	12	3	4
PL.64036	PL.64012	A	#4 ACSR	7.38Y	123.0	0.00	1.98	1.67	1	12	3	97	0.00	0.0	2.203	0.114	12	3	1	1
PL.64033	PL.64030	A	#4 ACSR	7.38Y	123.0	0.02	1.95	7.50	6	53	15	96	0.01	0.0	2.000	0.046	0	0	0	8

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.64245	PL.64033	A	#4 ACSR	7.38Y	123.0	0.00	1.96	2.25	2	16	5	95	0.00	0.0	2.057	0.057	16	5	2	2
PL.64246	PL.64033	A	#4 ACSR	7.38Y	123.0	0.03	1.98	5.26	4	37	11	96	0.01	0.0	2.152	0.152	16	5	2	6
PL.61035	PL.64246	A	#4 ACSR	7.38Y	123.0	0.00	1.98	1.40	1	10	3	96	0.00	0.0	2.195	0.043	10	3	2	2
PL.38100	PL.64246	A	#4 ACSR	7.38Y	123.0	0.00	1.98	1.54	1	11	3	96	0.00	0.0	2.194	0.042	11	3	2	2
PL.64242	PL.64241	A	#4/0 ACSR	7.41Y	123.5	0.00	1.53	2.71	1	19	6	95	0.00	0.0	1.584	0.002	0	0	0	1
PD.5962	PL.64242	A	40QA	7.41Y	123.5	0.00	1.53	2.71	7	19	6	95	0.00	0.0	1.584	0.002	0	0	0	1
PL.37659	PD.5962	A	#4/0 ACSR	7.41Y	123.5	0.00	1.53	2.71	1	19	6	95	0.00	0.0	1.592	0.008	19	6	1	1
PL.64244	PL.64241	ABC	#1/0 ACSR	7.41Y	123.4	0.04	1.57	38.17	17	814	239	96	0.24	0.0	1.644	0.062	6	2	2	100
PL.38085	PL.64244	ABC	#1/0 ACSR	7.40Y	123.4	0.05	1.62	37.90	16	808	237	96	0.27	0.0	1.716	0.072	11	3	1	98
PL.38088	PL.38085	ABC	#1/0 ACSR	7.40Y	123.3	0.03	1.66	35.98	16	767	225	96	0.18	0.0	1.768	0.052	0	0	0	95
PL.38091	PL.38088	ABC	#1/0 ACSR	7.40Y	123.3	0.06	1.71	34.98	15	745	218	96	0.30	0.0	1.860	0.092	12	4	2	92
PL.38092	PL.38091	ABC	#1/0 ACSR	7.40Y	123.3	0.02	1.73	34.41	15	733	215	96	0.09	0.0	1.888	0.028	0	0	0	90
PL.38415	PL.38092	ABC	#1/0 ACSR	7.39Y	123.2	0.05	1.78	34.13	15	727	213	96	0.25	0.0	1.970	0.082	0	0	0	88
PL.37857	PL.38415	A	#2 ACSR	7.39Y	123.2	0.00	1.78	3.29	2	23	7	96	0.00	0.0	1.973	0.003	0	0	0	3
PD.5959	PL.37857	A	40QA	7.39Y	123.2	0.00	1.78	3.29	8	23	7	96	0.00	0.0	1.973	0.003	0	0	0	3
PL.37558	PD.5959	A	#2 ACSR	7.39Y	123.2	0.00	1.78	3.29	2	23	7	96	0.00	0.0	2.009	0.035	12	3	1	3
PL.37105	PL.37558	A	#2 ACSR	7.39Y	123.2	0.00	1.79	1.65	1	12	3	97	0.00	0.0	2.053	0.044	0	0	1	2
PL.37673	PL.37105	A	#2 ACSR	7.39Y	123.2	0.00	1.79	1.61	1	11	3	96	0.00	0.0	2.117	0.064	11	3	1	1
PL.37559	PL.38415	ABC	#1/0 ACSR	7.39Y	123.2	0.05	1.83	33.03	14	703	206	96	0.24	0.0	2.053	0.083	10	3	1	85
PL.64247	PL.37559	ABC	#1/0 ACSR	7.39Y	123.1	0.04	1.87	32.54	14	693	202	96	0.19	0.0	2.120	0.067	0	0	0	84
PL.64248	PL.64247	ABC	#1/0 ACSR	7.38Y	123.1	0.06	1.93	31.73	14	675	197	96	0.29	0.0	2.226	0.107	0	0	0	80
PL.37377	PL.64248	A	#4 ACSR	7.38Y	123.1	0.00	1.93	13.62	10	97	28	96	0.00	0.0	2.228	0.001	0	0	0	11
PD.5238	PL.37377	A	40QA	7.38Y	123.1	0.00	1.93	13.62	34	97	28	96	0.00	0.0	2.228	0.001	0	0	0	11
PL.37378	PD.5238	A	#4 ACSR	7.38Y	123.0	0.02	1.95	13.62	10	97	28	96	0.01	0.0	2.258	0.031	15	4	2	11
PL.38145	PL.37378	A	#4 ACSR	7.38Y	123.0	0.02	1.97	11.54	9	82	24	96	0.01	0.0	2.309	0.051	26	8	3	9
PL.37755	PL.38145	A	#4 ACSR	7.38Y	123.0	0.00	1.97	0.00	0	0	0	100	0.00	0.0	2.379	0.070	0	0	0	0
PL.37622	PL.38145	A	#4 ACSR	7.38Y	123.0	0.02	1.99	7.88	6	56	16	96	0.01	0.0	2.375	0.066	4	1	2	6
PL.37623	PL.37622	A	#4 ACSR	7.38Y	123.0	0.01	2.00	7.37	6	52	15	96	0.00	0.0	2.402	0.027	0	0	0	4
PL.36736	PL.37623	A	#4 ACSR	7.38Y	123.0	0.00	2.01	7.37	6	52	15	96	0.00	0.0	2.430	0.028	52	15	4	4
PL.37883	PL.36736	A	#4 ACSR	7.38Y	123.0	0.00	2.01	0.00	0	0	0	100	0.00	0.0	2.464	0.034	0	0	0	0
PL.37624	PL.37623	A	#1/0 ACSR	7.38Y	123.0	0.00	2.00	0.00	0	0	0	100	0.00	0.0	2.427	0.026	0	0	0	0

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Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37625	PL.37624	A	#1/0 ACSR	7.38Y	123.0	0.00	2.00	0.00	0	0	0	100	0.00	0.0	2.457	0.029	0	0	0	0
PL.37379	PL.64248	A	#4 ACSR	7.38Y	123.1	0.00	1.93	1.91	1	14	4	96	0.00	0.0	2.228	0.001	0	0	0	3
PD.5239	PL.37379	A	40QA	7.38Y	123.1	0.00	1.93	1.91	5	14	4	96	0.00	0.0	2.228	0.001	0	0	0	3
PL.37380	PD.5239	A	#4 ACSR	7.38Y	123.1	0.00	1.93	1.91	1	14	4	96	0.00	0.0	2.259	0.031	14	4	3	3
PL.64250	PL.64248	ABC	#1/0 ACSR	7.38Y	123.1	0.02	1.95	26.56	12	565	165	96	0.06	0.0	2.258	0.032	0	0	0	66
PL.64249	PL.64250	A	#4 ACSR	7.38Y	123.1	0.00	1.95	1.30	1	9	3	95	0.00	0.0	2.259	0.001	0	0	0	1
PD.6074	PL.64249	A	40QA	7.38Y	123.1	0.00	1.95	1.30	3	9	3	95	0.00	0.0	2.259	0.001	0	0	0	1
PL.37198	PD.6074	A	#4 ACSR	7.38Y	123.1	0.00	1.95	1.30	1	9	3	95	0.00	0.0	2.282	0.023	9	3	1	1
PL.64156	PL.64250	ABC	#1/0 ACSR	7.38Y	123.0	0.03	1.97	25.26	11	537	157	96	0.10	0.0	2.318	0.060	25	7	2	62
PL.64577	PL.64156	ABC	#1/0 ACSR	7.38Y	123.0	0.00	1.97	24.07	10	512	149	96	0.00	0.0	2.318	0.000	0	0	0	60
PL.64578	PL.64577	ABC	#1/0 ACSR	7.38Y	123.0	0.02	1.99	24.07	10	512	149	96	0.07	0.0	2.362	0.044	0	0	0	60
PL.64253	PL.64578	A	#2 ACSR	7.38Y	123.0	0.00	1.99	3.86	2	27	8	96	0.00	0.0	2.362	0.001	0	0	0	3
PD.5223	PL.64253	A	40QA	7.38Y	123.0	0.00	1.99	3.86	10	27	8	96	0.00	0.0	2.362	0.001	0	0	0	3
PL.38697	PD.5223	A	#2 ACSR	7.38Y	123.0	0.00	2.00	3.86	2	27	8	96	0.00	0.0	2.380	0.018	13	4	2	3
PL.61392	PL.38697	A	#2 ACSR	7.38Y	123.0	0.00	2.00	1.96	1	14	4	96	0.00	0.0	2.399	0.019	0	0	0	1
PL.63058	PL.61392	A	#1/0 ACSR	7.38Y	123.0	0.00	2.00	1.96	1	14	4	96	0.00	0.0	2.447	0.048	14	4	1	1
PL.64252	PL.64578	A	#2 ACSR	7.38Y	123.0	0.00	1.99	3.82	2	27	8	96	0.00	0.0	2.363	0.001	0	0	0	3
PD.6073	PL.64252	A	40QA	7.38Y	123.0	0.00	1.99	3.82	10	27	8	96	0.00	0.0	2.363	0.001	0	0	0	3
PL.38696	PD.6073	A	#2 ACSR	7.38Y	123.0	0.00	2.00	3.82	2	27	8	96	0.00	0.0	2.396	0.033	27	8	3	3
PL.64254	PL.64578	ABC	#1/0 ACSR	7.38Y	123.0	0.03	2.02	21.50	9	457	133	96	0.08	0.0	2.437	0.075	46	13	5	54
PL.61408	PL.64254	A	#2 ACSR	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	2.466	0.029	0	0	0	0
PL.61409	PL.64254	ABC	#1/0 ACSR	7.38Y	123.0	0.02	2.04	19.36	8	411	120	96	0.05	0.0	2.486	0.049	10	3	1	49
PL.38698	PL.61409	C	#2 ACSR	7.38Y	123.0	0.00	2.04	2.30	1	16	5	95	0.00	0.0	2.486	0.000	0	0	0	1
PD.6072	PL.38698	C	40QA	7.38Y	123.0	0.00	2.04	2.30	6	16	5	95	0.00	0.0	2.486	0.000	0	0	0	1
PL.38699	PD.6072	C	#2 ACSR	7.38Y	123.0	0.00	2.04	2.30	1	16	5	95	0.00	0.0	2.513	0.027	16	5	1	1
PL.38700	PL.61409	A	6 A (CWC)	7.38Y	123.0	0.00	2.04	20.23	14	143	42	96	0.00	0.0	2.486	0.000	0	0	0	16
PD.5890	PL.38700	A	40QA	7.38Y	123.0	0.00	2.04	20.23	51	143	42	96	0.00	0.0	2.486	0.000	0	0	0	16
PL.37951	PD.5890	A	6 A (CWC)	7.37Y	122.9	0.08	2.12	20.23	14	143	42	96	0.08	0.1	2.571	0.085	4	1	1	16
PL.37556	PL.37951	A	6 A (CWC)	7.37Y	122.8	0.05	2.17	19.70	14	139	41	96	0.05	0.0	2.628	0.057	11	3	1	15
PL.37557	PL.37556	A	6 A (CWC)	7.37Y	122.8	0.06	2.23	18.09	13	128	37	96	0.06	0.0	2.705	0.077	0	0	0	14
PL.38704	PL.37557	A	#4 ACSR	7.37Y	122.8	0.00	2.23	2.73	2	19	6	95	0.00	0.0	2.745	0.040	17	5	2	3

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.36744	PL.38704	A	#4 ACSR	7.37Y	122.8	0.00	2.23	0.33	0	2	1	89	0.00	0.0	2.839	0.094	2	1	1	1
PL.38703	PL.37557	A	6 A (CWC)	7.36Y	122.7	0.04	2.26	15.36	11	109	32	96	0.03	0.0	2.756	0.052	7	2	1	11
PL.64574	PL.38703	A	#1/0 ACSR	7.36Y	122.7	0.01	2.27	13.04	6	92	27	96	0.01	0.0	2.784	0.028	0	0	0	9
PL.64575	PL.64574	A	#1/0 ACSR	7.36Y	122.7	0.00	2.27	13.04	6	92	27	96	0.00	0.0	2.784	0.000	0	0	0	9
PL.64576	PL.64575	A	#1/0 ACSR	7.36Y	122.7	0.03	2.30	13.04	6	92	27	96	0.02	0.0	2.881	0.097	1	0	1	9
PL.37952	PL.64576	A	6 A (CWC)	7.36Y	122.7	0.03	2.33	12.95	9	92	27	96	0.02	0.0	2.936	0.056	9	3	1	8
PL.37953	PL.37952	A	6 A (CWC)	7.36Y	122.6	0.05	2.38	11.65	8	82	24	96	0.03	0.0	3.025	0.088	0	0	0	7
PL.38130	PL.37953	A	6 A (CWC)	7.36Y	122.6	0.00	2.38	0.48	0	3	1	95	0.00	0.0	3.055	0.031	3	1	1	1
PL.37954	PL.37953	A	6 A (CWC)	7.36Y	122.6	0.01	2.39	11.17	8	79	23	96	0.01	0.0	3.061	0.036	48	14	3	6
PL.37955	PL.37954	A	6 A (CWC)	7.36Y	122.6	0.01	2.40	4.33	3	31	9	96	0.00	0.0	3.089	0.028	0	0	0	3
PL.37957	PL.37955	A	6 A (CWC)	7.36Y	122.6	0.00	2.40	2.79	2	20	6	96	0.00	0.0	3.103	0.014	0	0	0	2
PL.37958	PL.37957	A	6 A (CWC)	7.36Y	122.6	0.00	2.41	2.79	2	20	6	96	0.00	0.0	3.132	0.029	0	0	0	2
PL.37858	PL.37958	A	6 A (CWC)	7.36Y	122.6	0.00	2.41	2.79	2	20	6	96	0.00	0.0	3.170	0.038	10	3	1	2
PL.37859	PL.37858	A	6 A (CWC)	7.36Y	122.6	0.00	2.41	1.35	1	10	3	96	0.00	0.0	3.244	0.074	10	3	1	1
PL.37956	PL.37955	A	6 A (CWC)	7.36Y	122.6	0.00	2.40	1.54	1	11	3	96	0.00	0.0	3.124	0.035	11	3	1	1
PL.37639	PL.38703	A	6 A (CWC)	7.36Y	122.7	0.00	2.27	1.27	1	9	3	95	0.00	0.0	2.848	0.092	9	3	1	1
PL.38701	PL.61409	A	#4 ACSR	7.38Y	123.0	0.00	2.04	34.10	26	242	71	96	0.00	0.0	2.486	0.000	0	0	0	31
PD.6010	PL.38701	A	50QA	7.38Y	123.0	0.00	2.04	34.10	68	242	71	96	0.00	0.0	2.486	0.000	0	0	0	31
PL.38219	PD.6010	A	#4 ACSR	7.37Y	122.9	0.07	2.11	34.10	26	242	71	96	0.12	0.1	2.530	0.044	0	0	0	31
PL.38702	PL.38219	A	#4 ACSR	7.36Y	122.6	0.27	2.38	34.10	26	241	70	96	0.49	0.2	2.708	0.177	0	0	0	31
PL.37959	PL.38702	A	#4 ACSR	7.36Y	122.6	0.04	2.41	26.70	21	189	55	96	0.05	0.0	2.739	0.032	3	1	1	27
PL.37960	PL.37959	A	#4 ACSR	7.35Y	122.5	0.12	2.54	26.29	20	186	54	96	0.16	0.1	2.852	0.113	31	9	3	26
PL.37961	PL.37960	A	#4 ACSR	7.34Y	122.3	0.12	2.66	16.04	12	113	33	96	0.10	0.1	3.023	0.171	3	1	3	18
PL.38432	PL.37961	A	#4 ACSR	7.34Y	122.3	0.01	2.67	6.22	5	44	13	96	0.00	0.0	3.068	0.045	11	3	1	5
PL.38097	PL.38432	A	#4 ACSR	7.34Y	122.3	0.01	2.68	4.67	4	33	10	96	0.00	0.0	3.119	0.051	11	3	1	4
PL.38098	PL.38097	A	#4 ACSR	7.34Y	122.3	0.00	2.68	3.06	2	22	6	96	0.00	0.0	3.156	0.037	8	2	1	3
PL.61040	PL.38098	A	#1/0 ACSR	7.34Y	122.3	0.00	2.68	1.88	1	13	4	96	0.00	0.0	3.181	0.024	13	4	2	2
PL.37420	PL.37961	A	#4 ACSR	7.34Y	122.3	0.03	2.69	9.42	7	66	19	96	0.01	0.0	3.092	0.069	0	0	1	10
PL.38094	PL.37420	A	#4 ACSR	7.34Y	122.3	0.02	2.70	7.77	6	55	16	96	0.01	0.0	3.157	0.065	33	10	5	7
PL.38095	PL.38094	A	#4 ACSR	7.34Y	122.3	0.01	2.71	3.04	2	21	6	96	0.00	0.0	3.214	0.056	10	3	1	2
PL.38096	PL.38095	A	#4 ACSR	7.34Y	122.3	0.00	2.71	1.62	1	11	3	96	0.00	0.0	3.262	0.048	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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37265	PL.37420	A	#2 ACSR	7.34Y	122.3	0.00	2.69	1.65	1	12	3	97	0.00	0.0	3.134	0.042	12	3	2	2
PL.36737	PL.37960	A	#4 ACSR	7.35Y	122.5	0.01	2.54	5.86	5	41	12	96	0.00	0.0	2.905	0.053	36	11	4	5
PL.36738	PL.36737	A	#4 ACSR	7.35Y	122.5	0.00	2.54	0.72	1	5	1	98	0.00	0.0	2.956	0.051	5	1	1	1
PL.37086	PL.38702	A	#4 ACSR	7.36Y	122.6	0.04	2.42	7.40	6	52	15	96	0.02	0.0	2.828	0.121	0	0	0	4
PL.37962	PL.37086	A	#4 ACSR	7.35Y	122.6	0.02	2.43	7.40	6	52	15	96	0.01	0.0	2.891	0.063	23	7	2	4
PL.37419	PL.37962	A	#4 ACSR	7.35Y	122.6	0.00	2.43	3.43	3	24	7	96	0.00	0.0	2.905	0.014	24	7	1	1
PL.37668	PL.37962	A	#4 ACSR	7.35Y	122.6	0.00	2.43	0.75	1	5	2	93	0.00	0.0	2.914	0.023	5	2	1	1
PL.64251	PL.64250	A	#4 ACSR	7.38Y	123.1	0.00	1.95	2.58	2	18	5	96	0.00	0.0	2.259	0.001	0	0	0	3
PD.5224	PL.64251	A	40QA	7.38Y	123.1	0.00	1.95	2.58	6	18	5	96	0.00	0.0	2.259	0.001	0	0	0	3
PL.37199	PD.5224	A	#4 ACSR	7.38Y	123.1	0.00	1.95	2.58	2	18	5	96	0.00	0.0	2.289	0.030	18	5	3	3
PL.64005	PL.64247	A	#2 ACSR	7.39Y	123.1	0.00	1.87	2.43	1	17	5	96	0.00	0.0	2.121	0.001	0	0	0	4
PD.9505	PL.64005	A	40QA	7.39Y	123.1	0.00	1.87	2.43	6	17	5	96	0.00	0.0	2.121	0.001	0	0	0	4
PL.64161	PD.9505	A	#2 ACSR	7.39Y	123.1	0.00	1.87	2.43	1	17	5	96	0.00	0.0	2.145	0.024	7	2	1	4
PL.64158	PL.64161	A	#2 ACSR	7.39Y	123.1	0.00	1.87	1.45	1	10	3	96	0.00	0.0	2.220	0.075	10	3	2	3
PL.64029	PL.64158	A	#2 ACSR	7.39Y	123.1	0.00	1.87	0.00	0	0	0	100	0.00	0.0	2.288	0.068	0	0	1	1
PL.37591	PL.38415	C	#2 ACSR	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	1.972	0.002	0	0	0	0
PD.6080	PL.37591	C	40QA	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	1.972	0.002	0	0	0	0
PL.37592	PD.6080	C	#2 ACSR	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	2.001	0.029	0	0	0	0
PL.38093	PL.38092	C	#2 ACSR	7.40Y	123.3	0.00	1.73	0.83	0	6	2	95	0.00	0.0	1.890	0.001	0	0	0	2
PD.5963	PL.38093	C	40QA	7.40Y	123.3	0.00	1.73	0.83	2	6	2	95	0.00	0.0	1.890	0.001	0	0	0	2
PL.52644	PD.5963	C	#2 ACSR	7.40Y	123.3	0.00	1.73	0.83	0	6	2	95	0.00	0.0	1.922	0.033	5	2	1	2
PL.52645	PL.52644	C	#2 ACSR	7.40Y	123.3	0.00	1.73	0.06	0	0	0	100	0.00	0.0	1.943	0.020	0	0	1	1
PL.38089	PL.38088	A	#2 ACSR	7.40Y	123.3	0.00	1.66	1.10	1	8	2	97	0.00	0.0	1.771	0.003	0	0	0	2
PD.5964	PL.38089	A	40QA	7.40Y	123.3	0.00	1.66	1.10	3	8	2	97	0.00	0.0	1.771	0.003	0	0	0	2
PL.38090	PD.5964	A	#2 ACSR	7.40Y	123.3	0.00	1.66	1.10	1	8	2	97	0.00	0.0	1.823	0.052	8	2	2	2
PL.38413	PL.38088	A	#4 ACSR	7.40Y	123.3	0.00	1.66	1.91	1	14	4	96	0.00	0.0	1.770	0.002	0	0	0	1
PD.6023	PL.38413	A	40QA	7.40Y	123.3	0.00	1.66	1.91	5	14	4	96	0.00	0.0	1.770	0.002	0	0	0	1
PL.38414	PD.6023	A	#4 ACSR	7.40Y	123.3	0.00	1.66	1.91	1	14	4	96	0.00	0.0	1.813	0.043	14	4	1	1
PL.38412	PL.38085	A	#2 ACSR	7.40Y	123.4	0.00	1.62	4.29	2	30	9	96	0.00	0.0	1.719	0.003	0	0	0	2
PD.6002	PL.38412	A	40QA	7.40Y	123.4	0.00	1.62	4.29	11	30	9	96	0.00	0.0	1.719	0.003	0	0	0	2
PL.38086	PD.6002	A	#2 ACSR	7.40Y	123.4	0.00	1.63	4.29	2	30	9	96	0.00	0.0	1.766	0.047	15	4	1	2

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38087	PL.38086	A	#2 ACSR	7.40Y	123.4	0.00	1.63	2.18	1	15	5	95	0.00	0.0	1.801	0.035	15	5	1	1
PL.37680	PL.37679	A	#2 ACSR	7.42Y	123.6	0.00	1.40	6.13	4	44	13	96	0.00	0.0	1.448	0.002	0	0	0	4
PD.5961	PL.37680	A	40QA	7.42Y	123.6	0.00	1.40	6.13	15	44	13	96	0.00	0.0	1.448	0.002	0	0	0	4
PL.37854	PD.5961	A	#2 ACSR	7.42Y	123.6	0.00	1.40	6.13	4	44	13	96	0.00	0.0	1.486	0.038	44	13	4	4
PL.37855	PL.37854	A	#2 ACSR	7.42Y	123.6	0.00	1.40	0.00	0	0	0	100	0.00	0.0	1.550	0.063	0	0	0	0
PL.37494	PL.37834	A	#1/0 ACSR	7.43Y	123.8	0.00	1.17	0.00	0	0	0	100	0.00	0.0	1.281	0.049	0	0	0	0
PL.38124	PL.37834	A	#4 ACSR	7.43Y	123.8	0.00	1.18	7.61	6	54	16	96	0.00	0.0	1.235	0.004	0	0	0	6
PD.6060	PL.38124	A	40QA	7.43Y	123.8	0.00	1.18	7.61	19	54	16	96	0.00	0.0	1.235	0.004	0	0	0	6
PL.38099	PD.6060	A	#4 ACSR	7.43Y	123.8	0.04	1.22	7.61	6	54	16	96	0.01	0.0	1.398	0.162	28	8	3	6
PL.38709	PL.38099	A	#4 ACSR	7.43Y	123.8	0.01	1.23	3.70	3	26	8	96	0.00	0.0	1.475	0.078	0	0	0	3
PL.38101	PL.38709	A	#4 ACSR	7.42Y	123.7	0.02	1.25	3.70	3	26	8	96	0.00	0.0	1.636	0.161	7	2	1	3
PL.38102	PL.38101	A	#4 ACSR	7.42Y	123.7	0.01	1.26	2.75	2	20	6	96	0.00	0.0	1.826	0.190	20	6	2	2
PL.37802	PL.38709	A	#2 ACSR	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.562	0.087	0	0	0	0
PL.37547	PL.37834	A	#1/0 ACSR	7.43Y	123.8	0.00	1.17	0.35	0	2	1	89	0.00	0.0	1.262	0.031	2	1	1	1
PL.37392	PL.37391	A	#2 ACSR	7.44Y	124.1	0.00	0.93	2.23	1	16	5	95	0.00	0.0	1.003	0.001	0	0	0	1
PD.6079	PL.37392	A	25QA	7.44Y	124.1	0.00	0.93	2.23	9	16	5	95	0.00	0.0	1.003	0.001	0	0	0	1
PL.38120	PD.6079	A	#2 ACSR	7.44Y	124.1	0.00	0.93	2.23	1	16	5	95	0.00	0.0	1.017	0.014	16	5	1	1
PL.37039	PL.37038	A	#4 ACSR	7.45Y	124.1	0.00	0.87	0.46	0	3	1	95	0.00	0.0	0.964	0.016	3	1	1	1
PL.37040	PL.37039	A	#4 ACSR	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	1.041	0.076	0	0	0	0
PL.59595	PL.59573	ABC	#1/0 ACSR	7.45Y	124.2	0.01	0.82	24.59	11	527	155	96	0.04	0.0	0.918	0.024	0	0	0	71
PD.8797	PL.59595	ABC	50L	7.45Y	124.2	0.00	0.82	24.59	49	527	155	96	0.00	0.0	0.918	0.024	0	0	0	71
PL.59596	PD.8797	ABC	#1/0 ACSR	7.45Y	124.2	0.01	0.82	24.59	11	527	155	96	0.03	0.0	0.935	0.018	6	2	2	71
PL.59575	PL.59596	ABC	#1/0 ACSR	7.45Y	124.2	0.01	0.83	24.34	11	522	154	96	0.03	0.0	0.954	0.019	9	3	2	69
PL.37042	PL.59575	ABC	#1/0 ACSR	7.45Y	124.1	0.02	0.85	23.93	10	513	151	96	0.08	0.0	1.005	0.051	24	7	3	67
PL.37041	PL.37042	ABC	#1/0 ACSR	7.45Y	124.1	0.02	0.87	22.80	10	489	144	96	0.06	0.0	1.047	0.042	11	3	1	64
PL.37868	PL.37041	ABC	#1/0 ACSR	7.45Y	124.1	0.03	0.90	22.31	10	478	141	96	0.09	0.0	1.116	0.069	0	0	0	62
PL.37046	PL.37868	C	#2 ACSR	7.45Y	124.1	0.00	0.90	1.07	1	8	2	97	0.00	0.0	1.116	0.000	0	0	0	2
PD.5985	PL.37046	C	40QA	7.45Y	124.1	0.00	0.90	1.07	3	8	2	97	0.00	0.0	1.116	0.000	0	0	0	2
PL.37047	PD.5985	C	#2 ACSR	7.45Y	124.1	0.00	0.90	1.07	1	8	2	97	0.00	0.0	1.132	0.016	8	2	2	2
PL.37751	PL.37868	ABC	#1/0 ACSR	7.44Y	124.1	0.02	0.92	21.96	10	471	138	96	0.06	0.0	1.165	0.050	0	0	0	60
PL.37048	PL.37751	C	#2 ACSR	7.44Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	1.166	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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.5965	PL.37048	C	40QA	7.44Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	1.166	0.001	0	0	0	2
PL.64236	PD.5965	C	#2 ACSR	7.44Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	1.186	0.020	0	0	0	2
PL.64010	PL.64236	C	#2 ACSR	7.44Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	1.205	0.019	0	0	2	2
PL.37049	PL.37751	ABC	#1/0 ACSR	7.44Y	124.0	0.05	0.97	21.96	10	470	138	96	0.15	0.0	1.285	0.120	0	0	0	58
PL.37068	PL.37049	ABC	#1/0 ACSR	7.42Y	123.7	0.32	1.28	21.96	10	470	138	96	1.01	0.2	2.089	0.803	13	4	1	58
PL.37069	PL.37068	ABC	#1/0 ACSR	7.42Y	123.6	0.07	1.35	21.35	9	456	133	96	0.22	0.0	2.274	0.185	10	3	1	57
PL.37070	PL.37069	ABC	#1/0 ACSR	7.42Y	123.6	0.02	1.37	20.89	9	446	130	96	0.05	0.0	2.314	0.041	0	0	0	56
PL.37089	PL.37070	A	#2 ACSR	7.42Y	123.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	2.314	0.000	0	0	0	0
PL.37869	PL.37070	ABC	#1/0 ACSR	7.42Y	123.6	0.03	1.40	20.89	9	446	130	96	0.08	0.0	2.384	0.070	12	4	2	56
PL.37090	PL.37869	ABC	#1/0 ACSR	7.42Y	123.6	0.02	1.42	20.31	9	434	127	96	0.06	0.0	2.441	0.057	8	2	1	54
PL.37091	PL.37090	ABC	#1/0 ACSR	7.41Y	123.6	0.01	1.43	19.93	9	426	124	96	0.04	0.0	2.480	0.038	0	0	0	53
PL.37092	PL.37091	ABC	#1/0 ACSR	7.41Y	123.6	0.01	1.44	18.64	8	398	116	96	0.04	0.0	2.522	0.043	0	0	0	51
PL.37652	PL.37092	C	#2 ACSR	7.41Y	123.6	0.00	1.44	1.50	1	11	3	96	0.00	0.0	2.523	0.001	0	0	0	2
PD.6041	PL.37652	C	40QA	7.41Y	123.6	0.00	1.44	1.50	4	11	3	96	0.00	0.0	2.523	0.001	0	0	0	2
PL.38650	PD.6041	C	#2 ACSR	7.41Y	123.6	0.00	1.45	1.50	1	11	3	96	0.00	0.0	2.551	0.028	11	3	2	2
PL.38651	PL.38650	C	#2 ACSR	7.41Y	123.6	0.00	1.45	0.00	0	0	0	100	0.00	0.0	2.578	0.027	0	0	0	0
PL.37651	PL.37092	A	#2 ACSR	7.41Y	123.6	0.00	1.44	0.59	0	4	1	97	0.00	0.0	2.523	0.001	0	0	0	1
PD.5990	PL.37651	A	40QA	7.41Y	123.6	0.00	1.44	0.59	1	4	1	97	0.00	0.0	2.523	0.001	0	0	0	1
PL.37460	PD.5990	A	#2 ACSR	7.41Y	123.6	0.00	1.45	0.59	0	4	1	97	0.00	0.0	2.564	0.041	0	0	0	1
PL.37366	PL.37460	A	#2 ACSR	7.41Y	123.6	0.00	1.45	0.59	0	4	1	97	0.00	0.0	2.605	0.041	0	0	0	1
PL.37611	PL.37366	A	#2 ACSR	7.41Y	123.6	0.00	1.45	0.59	0	4	1	97	0.00	0.0	2.653	0.048	4	1	1	1
PL.38234	PL.37366	A	#2 ACSR	7.41Y	123.6	0.00	1.45	0.00	0	0	0	100	0.00	0.0	2.696	0.090	0	0	0	0
PL.38235	PL.37092	ABC	#1/0 ACSR	7.41Y	123.5	0.05	1.50	17.94	8	383	112	96	0.14	0.0	2.690	0.168	0	0	1	48
PL.36760	PL.38235	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.51	17.94	8	383	112	96	0.02	0.0	2.719	0.029	10	3	2	47
PL.36761	PL.36760	ABC	#1/0 ACSR	7.41Y	123.5	0.02	1.53	17.48	8	373	109	96	0.05	0.0	2.778	0.059	0	0	0	45
PL.36762	PL.36761	C	#2 ACSR	7.41Y	123.5	0.00	1.53	1.34	1	10	3	96	0.00	0.0	2.778	0.000	0	0	0	1
PD.5986	PL.36762	C	40QA	7.41Y	123.5	0.00	1.53	1.34	3	10	3	96	0.00	0.0	2.778	0.000	0	0	0	1
PL.36763	PD.5986	C	#2 ACSR	7.41Y	123.5	0.00	1.53	1.34	1	10	3	96	0.00	0.0	2.794	0.016	0	0	0	1
PL.38402	PL.36763	C	#2 ACSR	7.41Y	123.5	0.00	1.53	1.34	1	10	3	96	0.00	0.0	2.941	0.148	10	3	1	1
PL.36764	PL.36761	ABC	#1/0 ACSR	7.41Y	123.5	0.02	1.54	17.04	7	364	106	96	0.04	0.0	2.831	0.054	0	0	0	44
PL.37737	PL.36764	C	#2 ACSR	7.41Y	123.5	0.00	1.55	3.21	2	23	7	96	0.00	0.0	2.856	0.025	23	7	2	2

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38084	PL.36764	ABC	#1/0 ACSR	7.41Y	123.4	0.01	1.56	14.79	6	316	92	96	0.03	0.0	2.880	0.048	0	0	0	36
PL.37601	PL.38084	ABC	#1/0 ACSR	7.41Y	123.4	0.02	1.57	14.79	6	316	92	96	0.04	0.0	2.943	0.063	13	4	2	36
PL.37632	PL.37601	B	#4 ACSR	7.41Y	123.4	0.00	1.57	27.06	21	192	56	96	0.00	0.0	2.943	0.000	0	0	0	23
PD.5987	PL.37632	B	40QA	7.41Y	123.4	0.00	1.57	27.06	68	192	56	96	0.00	0.0	2.943	0.000	0	0	0	23
PL.37103	PD.5987	B	#4 ACSR	7.40Y	123.4	0.04	1.61	27.06	21	192	56	96	0.06	0.0	2.976	0.033	2	0	1	23
PL.38579	PL.37103	B	#4 ACSR	7.40Y	123.4	0.00	1.62	1.31	1	9	3	95	0.00	0.0	3.043	0.067	9	3	2	2
PL.38580	PL.38579	B	#4 ACSR	7.40Y	123.4	0.00	1.62	0.00	0	0	0	100	0.00	0.0	3.069	0.026	0	0	0	0
PL.37085	PL.37103	B	#4 ACSR	7.40Y	123.3	0.05	1.66	25.52	20	181	53	96	0.07	0.0	3.020	0.045	9	2	1	20
PL.38581	PL.37085	B	#4 ACSR	7.39Y	123.2	0.09	1.76	24.32	19	173	50	96	0.12	0.1	3.105	0.085	0	0	0	19
PL.37685	PL.38581	B	#4 ACSR	7.39Y	123.2	0.00	1.76	1.59	1	11	3	96	0.00	0.0	3.163	0.058	11	3	1	1
PL.37230	PL.38581	B	#4 ACSR	7.39Y	123.2	0.09	1.84	22.73	17	161	47	96	0.10	0.1	3.197	0.091	19	5	2	18
PL.37545	PL.37230	B	#4 ACSR	7.39Y	123.2	0.00	1.84	0.35	0	2	1	89	0.00	0.0	3.256	0.059	2	1	1	1
PL.38582	PL.37230	B	#4 ACSR	7.39Y	123.1	0.06	1.91	19.73	15	140	41	96	0.07	0.0	3.270	0.073	0	0	0	15
PL.37231	PL.38582	B	#4 ACSR	7.38Y	123.1	0.02	1.93	11.67	9	83	24	96	0.01	0.0	3.337	0.067	54	16	5	9
PL.64237	PL.37231	B	#4 ACSR	7.38Y	123.1	0.02	1.95	4.03	3	29	8	96	0.00	0.0	3.439	0.102	0	0	0	4
PL.64034	PL.64237	B	#4 ACSR	7.38Y	123.0	0.01	1.96	4.03	3	29	8	96	0.00	0.0	3.502	0.062	19	6	3	4
PL.64035	PL.64034	B	#4 ACSR	7.38Y	123.0	0.01	1.97	1.28	1	9	3	95	0.00	0.0	3.843	0.341	9	3	1	1
PL.37232	PL.38582	B	#4 ACSR	7.38Y	123.1	0.02	1.93	6.35	5	45	13	96	0.01	0.0	3.347	0.077	0	0	0	5
PL.63949	PL.37232	B	#4 ACSR	7.38Y	123.1	0.01	1.94	6.35	5	45	13	96	0.00	0.0	3.390	0.043	24	7	2	5
PL.63951	PL.63949	B	#4 ACSR	7.38Y	123.1	0.01	1.95	2.99	2	21	6	96	0.00	0.0	3.457	0.068	0	0	0	3
PL.63953	PL.63951	B	#1/0 ACSR	7.38Y	123.0	0.00	1.95	1.51	1	11	3	96	0.00	0.0	3.545	0.088	0	0	0	1
PL.63954	PL.63953	B	#1/0 ACSR	7.38Y	123.0	0.00	1.95	1.51	1	11	3	96	0.00	0.0	3.574	0.029	11	3	1	1
PL.63952	PL.63951	B	#4 ACSR	7.38Y	123.1	0.00	1.95	1.48	1	11	3	96	0.00	0.0	3.498	0.041	0	0	0	2
PL.63950	PL.63952	B	#4 ACSR	7.38Y	123.1	0.00	1.95	0.00	0	0	0	100	0.00	0.0	3.529	0.031	0	0	0	0
PL.63947	PL.63952	B	#2 ACSR	7.38Y	123.0	0.00	1.95	0.45	0	3	1	95	0.00	0.0	3.636	0.138	3	1	1	1
PL.63948	PL.63952	B	#4 ACSR	7.38Y	123.0	0.00	1.95	1.03	1	7	2	96	0.00	0.0	3.593	0.095	7	2	1	1
PL.37686	PL.38582	B	#4 ACSR	7.39Y	123.1	0.00	1.91	1.71	1	12	4	95	0.00	0.0	3.359	0.089	12	4	1	1
PL.37543	PL.37085	B	#4 ACSR	7.40Y	123.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	3.058	0.037	0	0	0	0
PL.37299	PL.37085	B	#4 ACSR	7.40Y	123.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	3.048	0.027	0	0	0	0
PL.37104	PL.37601	C	#4 ACSR	7.41Y	123.4	0.00	1.57	15.48	12	110	32	96	0.00	0.0	2.943	0.000	0	0	0	11
PD.6024	PL.37104	C	40QA	7.41Y	123.4	0.00	1.57	15.48	39	110	32	96	0.00	0.0	2.943	0.000	0	0	0	11

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37602	PD.6024	C	#4 ACSR	7.40Y	123.4	0.01	1.59	15.48	12	110	32	96	0.01	0.0	2.960	0.017	0	0	0	11
PL.38572	PL.37602	C	#4 ACSR	7.40Y	123.4	0.05	1.63	15.48	12	110	32	96	0.04	0.0	3.030	0.069	14	4	1	11
PL.38573	PL.38572	C	#4 ACSR	7.40Y	123.3	0.04	1.67	13.55	10	96	28	96	0.02	0.0	3.092	0.062	10	3	2	10
PL.38574	PL.38573	C	#4 ACSR	7.40Y	123.3	0.02	1.69	10.74	8	76	22	96	0.01	0.0	3.151	0.059	31	9	1	7
PL.38575	PL.38574	C	#4 ACSR	7.40Y	123.3	0.02	1.71	6.42	5	46	13	96	0.01	0.0	3.255	0.104	26	7	3	6
PL.37376	PL.38575	C	#4 ACSR	7.40Y	123.3	0.00	1.71	1.67	1	12	3	97	0.00	0.0	3.287	0.033	12	3	1	1
PL.38576	PL.38575	C	#4 ACSR	7.40Y	123.3	0.00	1.71	1.14	1	8	2	97	0.00	0.0	3.337	0.082	8	2	1	2
PL.38577	PL.38576	C	#4 ACSR	7.40Y	123.3	0.00	1.71	0.00	0	0	0	100	0.00	0.0	3.410	0.074	0	0	0	1
PL.37813	PL.38577	C	#4 ACSR	7.40Y	123.3	0.00	1.71	0.00	0	0	0	100	0.00	0.0	3.439	0.029	0	0	0	0
PL.38578	PL.38577	C	#4 ACSR	7.40Y	123.3	0.00	1.71	0.00	0	0	0	100	0.00	0.0	3.462	0.051	0	0	1	1
PL.37336	PL.38578	C	#4 ACSR	7.40Y	123.3	0.00	1.71	0.00	0	0	0	100	0.00	0.0	3.475	0.014	0	0	0	0
PL.37386	PL.38573	C	#4 ACSR	7.40Y	123.3	0.00	1.67	1.39	1	10	3	96	0.00	0.0	3.135	0.043	10	3	1	1
PL.38082	PL.36764	C	#2 ACSR	7.41Y	123.5	0.00	1.54	2.26	1	16	5	95	0.00	0.0	2.832	0.001	0	0	0	2
PD.6042	PL.38082	C	40QA	7.41Y	123.5	0.00	1.54	2.26	6	16	5	95	0.00	0.0	2.832	0.001	0	0	0	2
PL.38083	PD.6042	C	#2 ACSR	7.41Y	123.5	0.00	1.54	2.26	1	16	5	95	0.00	0.0	2.858	0.026	16	5	2	2
PL.36765	PL.36764	A	#2 ACSR	7.41Y	123.5	0.00	1.54	1.28	1	9	3	95	0.00	0.0	2.832	0.001	0	0	0	4
PD.6025	PL.36765	A	40QA	7.41Y	123.5	0.00	1.54	1.28	3	9	3	95	0.00	0.0	2.832	0.001	0	0	0	4
PL.36766	PD.6025	A	#2 ACSR	7.41Y	123.5	0.00	1.54	1.28	1	9	3	95	0.00	0.0	2.887	0.055	9	3	4	4
PL.37093	PL.37091	C	#2 ACSR	7.41Y	123.6	0.00	1.43	3.88	2	28	8	96	0.00	0.0	2.480	0.001	0	0	0	2
PD.6083	PL.37093	C	40QA	7.41Y	123.6	0.00	1.43	3.88	10	28	8	96	0.00	0.0	2.480	0.001	0	0	0	2
PL.37459	PD.6083	C	#2 ACSR	7.41Y	123.6	0.00	1.43	3.88	2	28	8	96	0.00	0.0	2.501	0.020	28	8	2	2
PL.37043	PL.37041	AB	#4 ACSR	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	1.085	0.038	0	0	0	1
PL.37044	PL.37043	AB	#4 ACSR	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	1.129	0.044	0	0	1	1
PL.37045	PL.37044	AB	#4 ACSR	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	1.164	0.034	0	0	0	0
PL.59594	PL.59576	C	#2 ACSR	7.46Y	124.3	0.00	0.65	2.83	2	20	6	96	0.00	0.0	0.799	0.000	0	0	0	3
PD.5984	PL.59594	C	15T	7.46Y	124.3	0.00	0.65	2.83	0	20	6	96	0.00	0.0	0.799	0.000	0	0	0	3
PL.37364	PD.5984	C	#2 ACSR	7.46Y	124.3	0.00	0.66	2.83	2	20	6	96	0.00	0.0	0.824	0.025	8	2	1	3
PL.37365	PL.37364	C	#2 ACSR	7.46Y	124.3	0.00	0.66	1.66	1	12	3	97	0.00	0.0	0.867	0.043	12	3	2	2
PL.57988	PL.62133	C	#1/0 ACSR	7.47Y	124.5	0.00	0.49	0.79	0	6	2	95	0.00	0.0	0.699	0.002	0	0	0	1
PD.8400	PL.57988	C	40QA	7.47Y	124.5	0.00	0.49	0.79	2	6	2	95	0.00	0.0	0.699	0.002	0	0	0	1
PL.57989	PD.8400	C	#1/0 ACSR	7.47Y	124.5	0.00	0.49	0.79	0	6	2	95	0.00	0.0	0.701	0.002	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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.57854	PL.57989	C	#1/0 ACSR	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	0.769	0.069	0	0	0	0
PL.57853	PL.57989	C	#2 ACSR	7.47Y	124.5	0.00	0.49	0.79	0	6	2	95	0.00	0.0	0.745	0.045	6	2	1	1
PL.62131	PL.62132	A	#2 ACSR	7.47Y	124.6	0.00	0.45	0.80	0	6	2	95	0.00	0.0	0.636	0.001	0	0	0	1
PD.9314	PL.62131	A	20QA	7.47Y	124.6	0.00	0.45	0.80	4	6	2	95	0.00	0.0	0.636	0.001	0	0	0	1
PL.62130	PD.9314	A	#2 ACSR	7.47Y	124.6	0.00	0.45	0.80	0	6	2	95	0.00	0.0	0.689	0.053	6	2	1	1
PL.62142	Conway	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	208.84	40	4451	1505	95	0.23	0.0	0.006	0.006	0	0	0	617
PL.62143	PL.62142	ABC	336 MCM AC	7.50Y	125.0	0.02	0.03	208.84	40	4451	1504	95	0.34	0.0	0.015	0.009	0	0	0	617
---------- Feeder No. 1 (CopperCreek F1) Beginning with Device PD.9305 ----------																				
PD.9305	PL.62143	ABC	480VWE	7.50Y	125.0	0.00	0.03	208.84	0	4451	1503	95	0.00	0.0	0.015	0.009	0	0	0	617
PL.62123	PD.9305	ABC	336 MCM AC	7.50Y	125.0	0.02	0.04	208.84	40	4451	1503	95	0.42	0.0	0.027	0.012	0	0	0	617
PL.62124	PL.62123	ABC	336 MCM AC	7.49Y	124.9	0.05	0.09	208.84	40	4450	1502	95	1.11	0.0	0.057	0.030	0	0	0	617
PL.62134	PL.62124	ABC	336 MCM AC	7.49Y	124.8	0.10	0.20	208.84	40	4449	1500	95	2.24	0.1	0.118	0.061	0	0	0	617
PL.62625	PL.62134	ABC	336 MCM AC	7.48Y	124.7	0.06	0.25	208.84	40	4447	1495	95	1.26	0.0	0.152	0.034	0	0	0	617
PL.62626	PL.62625	ABC	336 MCM AC	7.48Y	124.7	0.01	0.26	208.84	40	4446	1492	95	0.14	0.0	0.156	0.004	0	0	0	617
PL.62603	PL.62626	ABC	336 MCM AC	7.48Y	124.6	0.10	0.35	185.20	36	3937	1339	95	1.87	0.0	0.221	0.065	0	0	0	555
PL.62607	PL.62603	ABC	336 MCM AC	7.45Y	124.2	0.43	0.79	185.20	36	3935	1335	95	8.52	0.2	0.516	0.295	0	0	0	555
PL.62608	PL.62607	C	#2 ACSR	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	0.517	0.001	0	0	0	0
PD.9425	PL.62608	C	50T	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	0.517	0.001	0	0	0	0
PL.62604	PD.9425	C	#2 ACSR	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	0.536	0.018	0	0	0	0
PL.62629	PL.62604	C	#2 ACSR	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	0.538	0.002	0	0	0	0
PL.62630	PL.62629	C	#2 ACSR	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	0.572	0.035	0	0	0	0
PL.62627	PL.62607	ABC	336 MCM AC	7.45Y	124.2	0.01	0.79	185.20	36	3926	1315	95	0.11	0.0	0.520	0.004	0	0	0	555
PL.62628	PL.62627	ABC	336 MCM AC	7.45Y	124.2	0.06	0.85	185.20	36	3926	1315	95	1.11	0.0	0.558	0.038	0	0	0	555
PL.37353	PL.62628	ABC	336 MCM AC	7.45Y	124.1	0.04	0.89	184.53	36	3911	1308	95	0.83	0.0	0.587	0.029	5	1	1	554
PL.62609	PL.37353	A	#2 ACSR	7.45Y	124.1	0.00	0.89	1.28	1	9	3	95	0.00	0.0	0.589	0.002	0	0	0	1
PD.9427	PL.62609	A	50T	7.45Y	124.1	0.00	0.89	1.28	0	9	3	95	0.00	0.0	0.589	0.002	0	0	0	1
PL.62610	PD.9427	A	#2 ACSR	7.45Y	124.1	0.00	0.89	1.28	1	9	3	95	0.00	0.0	0.641	0.052	9	3	1	1
PL.62631	PL.37353	ABC	336 MCM AC	7.45Y	124.1	0.00	0.89	183.86	35	3896	1302	95	0.00	0.0	0.587	0.000	0	0	0	552
PL.62632	PL.62631	ABC	336 MCM AC	7.44Y	124.0	0.08	0.97	183.86	35	3896	1302	95	1.49	0.0	0.640	0.052	16	5	2	552

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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62633	PL.62632	ABC	336 MCM AC	7.44Y	123.9	0.10	1.07	183.13	35	3878	1294	95	2.03	0.1	0.712	0.072	0	0	0	550
PL.62634	PL.62633	ABC	336 MCM AC	7.44Y	123.9	0.00	1.07	183.13	35	3876	1289	95	0.00	0.0	0.712	0.000	14	4	1	550
PL.62612	PL.62634	ABC	336 MCM AC	7.43Y	123.8	0.12	1.19	182.46	35	3862	1285	95	2.40	0.1	0.797	0.086	0	0	0	549
PL.62786	PL.62612	A	6 A (CWC)	7.43Y	123.8	0.00	1.19	3.72	3	27	8	96	0.00	0.0	0.799	0.002	0	0	0	3
PD.9428	PL.62786	A	50T	7.43Y	123.8	0.00	1.19	3.72	0	27	8	96	0.00	0.0	0.799	0.002	0	0	0	3
PL.62635	PD.9428	A	6 A (CWC)	7.43Y	123.8	0.00	1.19	3.72	3	27	8	96	0.00	0.0	0.801	0.002	0	0	0	3
PL.62636	PL.62635	A	6 A (CWC)	7.43Y	123.8	0.01	1.21	3.72	3	27	8	96	0.00	0.0	0.862	0.061	0	0	0	3
PL.37845	PL.62636	A	#4 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	0.919	0.056	0	0	0	0
PL.37354	PL.62636	A	6 A (CWC)	7.43Y	123.8	0.00	1.21	3.72	3	27	8	96	0.00	0.0	0.912	0.050	27	8	3	3
PL.37355	PL.37354	A	6 A (CWC)	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	0.952	0.040	0	0	0	0
PL.62637	PL.62612	ABC	336 MCM AC	7.42Y	123.7	0.12	1.31	177.82	34	3760	1250	95	2.22	0.1	0.880	0.083	0	0	0	535
PL.62638	PL.62637	ABC	336 MCM AC	7.42Y	123.7	0.00	1.31	177.82	34	3758	1245	95	0.00	0.0	0.880	0.000	0	0	0	535
PL.62615	PL.62638	ABC	336 MCM AC	7.42Y	123.6	0.08	1.39	177.82	34	3758	1245	95	1.51	0.0	0.937	0.057	0	0	0	535
PL.62616	PL.62615	B	#1/0 ACSR	7.42Y	123.6	0.00	1.39	0.00	0	0	0	100	0.00	0.0	0.938	0.001	0	0	0	0
PD.9430	PL.62616	B	50T	7.42Y	123.6	0.00	1.39	0.00	0	0	0	100	0.00	0.0	0.938	0.001	0	0	0	0
PL.62639	PD.9430	B	#1/0 ACSR	7.42Y	123.6	0.00	1.39	0.00	0	0	0	100	0.00	0.0	0.942	0.003	0	0	0	0
PL.62640	PL.62639	B	#1/0 ACSR	7.42Y	123.6	0.00	1.39	0.00	0	0	0	100	0.00	0.0	0.945	0.004	0	0	0	0
PL.62641	PL.62615	ABC	336 MCM AC	7.42Y	123.6	0.03	1.42	177.82	34	3756	1242	95	0.48	0.0	0.955	0.018	0	0	0	535
PL.62642	PL.62641	ABC	336 MCM AC	7.42Y	123.6	0.00	1.42	177.82	34	3756	1241	95	0.00	0.0	0.955	0.000	40	12	4	535
PL.62614	PL.62642	B	#2 ACSR	7.42Y	123.6	0.00	1.42	0.00	0	0	0	100	0.00	0.0	0.986	0.031	0	0	0	0
PL.62643	PL.62642	ABC	336 MCM AC	7.41Y	123.6	0.01	1.42	175.96	34	3716	1229	95	0.10	0.0	0.959	0.004	0	0	0	531
PL.62644	PL.62643	ABC	336 MCM AC	7.41Y	123.4	0.14	1.56	175.96	34	3716	1229	95	2.55	0.1	1.057	0.098	0	0	0	531
PL.62537	PL.62644	B	#2 ACSR	7.41Y	123.4	0.00	1.56	0.00	0	0	0	100	0.00	0.0	1.058	0.001	0	0	0	0
PD.9381	PL.62537	B	50T	7.41Y	123.4	0.00	1.56	0.00	0	0	0	100	0.00	0.0	1.058	0.001	0	0	0	0
PL.62645	PD.9381	B	#2 ACSR	7.41Y	123.4	0.00	1.56	0.00	0	0	0	100	0.00	0.0	1.061	0.002	0	0	0	0
PL.62646	PL.62645	B	#2 ACSR	7.41Y	123.4	0.00	1.56	0.00	0	0	0	100	0.00	0.0	1.112	0.051	0	0	0	0
PL.62617	PL.62644	ABC	336 MCM AC	7.40Y	123.4	0.04	1.60	175.96	34	3714	1223	95	0.80	0.0	1.088	0.031	0	0	0	531
PL.62538	PL.62617	A	#1/0 ACSR	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	1.089	0.001	0	0	0	0
PD.9382	PL.62538	A	50T	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	1.089	0.001	0	0	0	0
PL.62649	PD.9382	A	#1/0 ACSR	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	1.103	0.014	0	0	0	0
PL.62650	PL.62649	A	#1/0 ACSR	7.40Y	123.4	0.00	1.60	0.00	0	0	0	100	0.00	0.0	1.108	0.005	0	0	0	0

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62647	PL.62617	ABC	336 MCM AC	7.40Y	123.4	0.00	1.60	175.96	34	3713	1221	95	0.04	0.0	1.089	0.001	0	0	0	531
PL.62648	PL.62647	ABC	336 MCM AC	7.40Y	123.3	0.08	1.68	175.96	34	3713	1221	95	1.53	0.0	1.148	0.059	7	2	1	531
PL.62651	PL.62648	ABC	336 MCM AC	7.40Y	123.3	0.01	1.69	175.30	34	3697	1213	95	0.10	0.0	1.151	0.004	0	0	0	529
PL.62652	PL.62651	ABC	336 MCM AC	7.39Y	123.1	0.17	1.86	175.30	34	3697	1213	95	3.28	0.1	1.278	0.127	0	0	0	529
PL.62653	PL.62652	ABC	336 MCM AC	7.39Y	123.1	0.01	1.87	174.13	34	3669	1198	95	0.18	0.0	1.285	0.007	0	0	0	527
PL.62655	PL.62653	ABC	336 MCM AC	7.38Y	123.1	0.07	1.95	174.13	34	3669	1198	95	1.40	0.0	1.340	0.055	0	0	0	527
PL.62656	PL.62655	ABC	336 MCM AC	7.38Y	123.1	0.00	1.95	174.13	34	3667	1194	95	0.01	0.0	1.340	0.000	0	0	0	527
PL.62663	PL.62656	C	#1/0 ACSR	7.38Y	123.1	0.00	1.95	0.00	0	0	0	100	0.00	0.0	1.342	0.001	0	0	0	0
PD.9384	PL.62663	C	50T	7.38Y	123.1	0.00	1.95	0.00	0	0	0	100	0.00	0.0	1.342	0.001	0	0	0	0
PL.62664	PD.9384	C	#1/0 ACSR	7.38Y	123.1	0.00	1.95	0.00	0	0	0	100	0.00	0.0	1.368	0.027	0	0	0	0
PL.62657	PL.62656	ABC	336 MCM AC	7.38Y	122.9	0.11	2.05	174.13	34	3667	1194	95	2.01	0.1	1.419	0.079	19	6	2	527
PL.62665	PL.62657	ABC	336 MCM AC	7.37Y	122.9	0.05	2.11	173.23	33	3646	1184	95	0.99	0.0	1.459	0.039	11	3	1	525
PL.63035	PL.62665	ABC	336 MCM AC	7.37Y	122.9	0.03	2.14	172.72	33	3634	1179	95	0.60	0.0	1.483	0.024	0	0	0	524
PL.63037	PL.63035	C	#1/0 ACSR	7.37Y	122.9	0.00	2.14	1.47	1	10	3	96	0.00	0.0	1.531	0.048	0	0	0	1
PL.63038	PL.63037	C	#1/0 ACSR	7.37Y	122.9	0.00	2.14	1.47	1	10	3	96	0.00	0.0	1.587	0.057	10	3	1	1
PL.63036	PL.63035	ABC	336 MCM AC	7.37Y	122.8	0.02	2.16	172.23	33	3623	1174	95	0.46	0.0	1.501	0.018	0	0	0	523
PL.62666	PL.63036	ABC	336 MCM AC	7.37Y	122.8	0.06	2.22	172.23	33	3623	1173	95	1.09	0.0	1.544	0.044	0	0	0	523
PL.62670	PL.62666	A	#1/0 ACSR	7.37Y	122.8	0.00	2.22	3.37	1	24	7	96	0.00	0.0	1.548	0.004	0	0	0	4
PD.9385	PL.62670	A	50T	7.37Y	122.8	0.00	2.22	3.37	0	24	7	96	0.00	0.0	1.548	0.004	0	0	0	4
PL.62671	PD.9385	A	#1/0 ACSR	7.37Y	122.8	0.00	2.22	3.37	1	24	7	96	0.00	0.0	1.563	0.015	0	0	0	4
PL.62658	PL.62671	A	6 A (CWC)	7.37Y	122.8	0.00	2.22	3.37	2	24	7	96	0.00	0.0	1.563	0.000	16	5	3	4
PL.38691	PL.62658	A	6 A (CWC)	7.37Y	122.8	0.00	2.22	1.09	1	8	2	97	0.00	0.0	1.586	0.023	0	0	0	1
PL.38692	PL.38691	A	6 A (CWC)	7.37Y	122.8	0.00	2.23	1.09	1	8	2	97	0.00	0.0	1.666	0.080	8	2	1	1
PL.62667	PL.62666	ABC	336 MCM AC	7.36Y	122.7	0.04	2.26	171.11	33	3598	1164	95	0.68	0.0	1.572	0.028	10	3	1	519
PL.62668	PL.62667	ABC	336 MCM AC	7.36Y	122.7	0.03	2.29	170.65	33	3587	1159	95	0.64	0.0	1.598	0.026	13	4	1	518
PL.62672	PL.62668	A	#1/0 ACSR	7.36Y	122.7	0.00	2.30	12.62	5	89	26	96	0.00	0.0	1.602	0.003	0	0	0	11
PD.9386	PL.62672	A	50T	7.36Y	122.7	0.00	2.30	12.62	0	89	26	96	0.00	0.0	1.602	0.003	0	0	0	11
PL.62673	PD.9386	A	#1/0 ACSR	7.36Y	122.7	0.00	2.30	12.62	5	89	26	96	0.00	0.0	1.615	0.013	13	4	1	11
PL.64303	PL.62673	A	6 A (CWC)	7.36Y	122.7	0.02	2.32	10.82	8	76	22	96	0.01	0.0	1.649	0.034	0	0	0	10
PL.64302	PL.64303	A	6 A (CWC)	7.36Y	122.7	0.00	2.32	10.82	8	76	22	96	0.00	0.0	1.649	0.000	48	14	4	10
PL.62662	PL.64302	A	6 A (CWC)	7.36Y	122.7	0.00	2.32	0.50	0	4	1	97	0.00	0.0	1.661	0.012	4	1	2	2

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38693	PL.64302	A	6 A (CWC)	7.36Y	122.7	0.00	2.32	3.50	2	25	7	96	0.00	0.0	1.679	0.031	8	2	2	4
PL.38694	PL.38693	A	6 A (CWC)	7.36Y	122.7	0.00	2.32	2.30	2	16	5	95	0.00	0.0	1.714	0.035	16	5	2	2
PL.62669	PL.62668	ABC	336 MCM AC	7.36Y	122.7	0.04	2.33	165.81	32	3484	1128	95	0.72	0.0	1.630	0.031	0	0	0	506
PL.62562	PL.62669	ABC	336 MCM AC	7.36Y	122.6	0.04	2.37	165.81	32	3484	1126	95	0.69	0.0	1.660	0.030	0	0	0	506
PL.62565	PL.62562	A	#1/0 ACSR	7.36Y	122.6	0.00	2.37	0.30	0	2	1	89	0.00	0.0	1.663	0.004	0	0	0	2
PD.9387	PL.62565	A	50T	7.36Y	122.6	0.00	2.37	0.30	0	2	1	89	0.00	0.0	1.663	0.004	0	0	0	2
PL.62566	PD.9387	A	#1/0 ACSR	7.36Y	122.6	0.00	2.37	0.30	0	2	1	89	0.00	0.0	1.676	0.013	2	1	1	2
PL.62564	PL.62566	A	6 A (CWC)	7.36Y	122.6	0.00	2.37	0.03	0	0	0	100	0.00	0.0	1.721	0.045	0	0	1	1
PL.62563	PL.62562	ABC	336 MCM AC	7.35Y	122.6	0.06	2.43	165.71	32	3481	1124	95	1.06	0.0	1.705	0.046	17	5	2	504
PL.62871	PL.62563	ABC	336 MCM AC	7.35Y	122.5	0.11	2.54	164.89	32	3462	1116	95	1.98	0.1	1.792	0.086	0	0	0	502
PL.62872	PL.62871	ABC	336 MCM AC	7.34Y	122.4	0.07	2.61	164.89	32	3460	1112	95	1.18	0.0	1.843	0.052	10	3	1	502
PL.62873	PL.62872	C	6 A (CWC)	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	1.847	0.003	0	0	0	0
PL.62890	PL.62872	ABC	336 MCM AC	7.34Y	122.3	0.06	2.67	160.96	31	3376	1085	95	1.01	0.0	1.890	0.046	0	0	0	489
PL.62889	PL.62890	ABC	336 MCM AC	7.34Y	122.3	0.04	2.71	160.96	31	3375	1083	95	0.70	0.0	1.922	0.032	30	9	4	489
PL.62888	PL.62889	ABC	336 MCM AC	7.33Y	122.2	0.08	2.79	159.54	31	3344	1072	95	1.33	0.0	1.984	0.062	0	0	0	485
PL.62887	PL.62888	A	6 A (CWC)	7.33Y	122.2	0.00	2.79	1.53	1	11	3	96	0.00	0.0	1.988	0.004	0	0	0	1
PD.9388	PL.62887	A	40T	7.33Y	122.2	0.00	2.79	1.53	0	11	3	96	0.00	0.0	1.988	0.004	0	0	0	1
PL.62570	PD.9388	A	6 A (CWC)	7.33Y	122.2	0.00	2.79	1.53	1	11	3	96	0.00	0.0	2.015	0.027	11	3	1	1
PL.62886	PL.62888	ABC	336 MCM AC	7.33Y	122.1	0.10	2.89	159.03	31	3332	1066	95	1.72	0.1	2.065	0.081	0	0	0	484
PL.62571	PL.62886	A	#1/0 ACSR	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	2.068	0.004	0	0	0	0
PD.9389	PL.62571	A	40T	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	2.068	0.004	0	0	0	0
PL.62572	PD.9389	A	#1/0 ACSR	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	2.092	0.024	0	0	0	0
PL.62573	PL.62886	ABC	336 MCM AC	7.32Y	122.0	0.08	2.97	159.03	31	3330	1062	95	1.39	0.0	2.130	0.065	0	0	0	484
PL.62574	PL.62573	A	#1/0 ACSR	7.32Y	122.0	0.00	2.97	0.56	0	4	1	97	0.00	0.0	2.133	0.003	0	0	0	1
PD.9390	PL.62574	A	40T	7.32Y	122.0	0.00	2.97	0.56	0	4	1	97	0.00	0.0	2.133	0.003	0	0	0	1
PL.62785	PD.9390	A	#1/0 ACSR	7.32Y	122.0	0.00	2.97	0.56	0	4	1	97	0.00	0.0	2.151	0.018	4	1	1	1
PL.62575	PL.62573	ABC	336 MCM AC	7.32Y	122.0	0.05	3.02	158.84	31	3325	1058	95	0.89	0.0	2.172	0.042	0	0	0	483
PL.62576	PL.62575	ABC	336 MCM AC	7.32Y	121.9	0.05	3.07	158.84	31	3324	1055	95	0.90	0.0	2.214	0.043	16	5	1	483
PL.62577	PL.62576	ABC	336 MCM AC	7.31Y	121.9	0.07	3.14	158.10	30	3308	1049	95	1.12	0.0	2.268	0.053	18	5	2	482
PL.62659	PL.62577	C	#4 ACSR	7.31Y	121.9	0.00	3.14	0.00	0	0	0	100	0.00	0.0	2.268	0.000	0	0	0	0
PL.62704	PL.62577	ABC	336 MCM AC	7.31Y	121.8	0.03	3.17	157.27	30	3289	1041	95	0.55	0.0	2.294	0.027	15	4	2	480

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62591	PL.62704	ABC	336 MCM AC	7.31Y	121.8	0.06	3.23	156.57	30	3274	1036	95	1.10	0.0	2.348	0.053	13	4	3	478
PL.62590	PL.62591	A	#2 ACSR	7.31Y	121.8	0.00	3.23	1.46	1	10	3	96	0.00	0.0	2.348	0.001	0	0	0	1
PD.9391	PL.62590	A	40T	7.31Y	121.8	0.00	3.23	1.46	0	10	3	96	0.00	0.0	2.348	0.001	0	0	0	1
PL.62578	PD.9391	A	#2 ACSR	7.31Y	121.8	0.00	3.23	1.46	1	10	3	96	0.00	0.0	2.377	0.029	10	3	1	1
PL.62818	PL.62591	ABC	336 MCM AC	7.30Y	121.7	0.05	3.28	155.47	30	3249	1026	95	0.82	0.0	2.388	0.041	24	7	2	474
PL.62820	PL.62818	A	#1/0 ACSR	7.30Y	121.7	0.00	3.28	2.03	1	14	4	96	0.00	0.0	2.392	0.003	0	0	0	3
PD.9452	PL.62820	A	40T	7.30Y	121.7	0.00	3.28	2.03	0	14	4	96	0.00	0.0	2.392	0.003	0	0	0	3
PL.62821	PD.9452	A	#1/0 ACSR	7.30Y	121.7	0.00	3.28	2.03	1	14	4	96	0.00	0.0	2.413	0.021	10	3	1	3
PL.62822	PL.62821	A	#1/0 ACSR	7.30Y	121.7	0.00	3.28	0.63	0	4	1	97	0.00	0.0	2.450	0.037	4	1	2	2
PL.62819	PL.62818	ABC	336 MCM AC	7.30Y	121.7	0.06	3.34	153.64	30	3210	1013	95	0.93	0.0	2.435	0.047	4	1	1	469
PL.47464	PL.62819	ABC	#2 ACSR	7.30Y	121.7	0.01	3.34	6.60	4	139	40	96	0.01	0.0	2.473	0.038	0	0	0	25
PL.64476	PL.47464	B	#4 ACSR	7.30Y	121.7	0.00	3.34	0.00	0	0	0	100	0.00	0.0	2.478	0.004	0	0	0	0
PD.9545	PL.64476	B	20T	7.30Y	121.7	0.00	3.34	0.00	0	0	0	100	0.00	0.0	2.478	0.004	0	0	0	0
PL.64477	PD.9545	B	#4 ACSR	7.30Y	121.7	0.00	3.34	0.00	0	0	0	100	0.00	0.0	2.566	0.089	0	0	0	0
PL.46974	PL.64477	B	#4 ACSR	7.30Y	121.7	0.00	3.34	0.00	0	0	0	100	0.00	0.0	2.630	0.064	0	0	0	0
PL.62579	PL.47464	ABC	#2 ACSR	7.30Y	121.6	0.01	3.36	6.60	4	139	40	96	0.01	0.0	2.550	0.076	0	0	0	25
PL.62581	PL.62579	ABC	#2 ACSR	7.30Y	121.6	0.00	3.36	6.27	4	132	38	96	0.00	0.0	2.576	0.026	0	0	0	24
PL.62582	PL.62581	C	#2 ACSR	7.30Y	121.6	0.00	3.36	18.81	11	132	38	96	0.00	0.0	2.579	0.004	0	0	0	24
PD.9392	PL.62582	C	T	7.30Y	121.6	0.00	3.36	18.81	0	132	38	96	0.00	0.0	2.579	0.004	0	0	0	24
PL.62583	PD.9392	C	#2 ACSR	7.30Y	121.6	0.03	3.39	18.81	11	132	38	96	0.03	0.0	2.628	0.049	0	0	0	24
PL.37344	PL.62583	C	6 A (CWC)	7.30Y	121.6	0.01	3.40	18.81	13	132	38	96	0.01	0.0	2.644	0.016	0	0	0	24
PL.37319	PL.37344	C	6 A (CWC)	7.29Y	121.5	0.05	3.45	18.81	13	132	38	96	0.05	0.0	2.700	0.056	0	0	0	24
PD.5236	PL.37319	C	40T	7.29Y	121.5	0.00	3.45	18.81	0	132	38	96	0.00	0.0	2.700	0.056	0	0	0	24
PL.37320	PD.5236	C	6 A (CWC)	7.29Y	121.5	0.00	3.45	18.81	13	132	38	96	0.00	0.0	2.701	0.001	0	0	0	24
PL.37275	PL.37320	C	6 A (CWC)	7.29Y	121.5	0.02	3.47	18.81	13	132	38	96	0.02	0.0	2.725	0.024	0	0	0	24
PL.60236	PL.37275	C	6 A (CWC)	7.29Y	121.5	0.01	3.49	18.81	13	132	38	96	0.01	0.0	2.742	0.017	24	7	2	24
PL.60237	PL.60236	C	6 A (CWC)	7.29Y	121.5	0.04	3.53	9.34	7	65	19	96	0.02	0.0	2.843	0.101	0	0	0	14
PL.58532	PL.60237	C	6 A (CWC)	7.28Y	121.4	0.05	3.58	8.56	6	60	17	96	0.02	0.0	2.976	0.133	0	0	0	13
PD.8708	PL.58532	C	15T	7.28Y	121.4	0.00	3.58	8.56	0	60	17	96	0.00	0.0	2.976	0.133	0	0	0	13
PL.58533	PD.8708	C	6 A (CWC)	7.28Y	121.4	0.02	3.60	8.56	6	60	17	96	0.01	0.0	3.029	0.054	4	1	1	13
PL.37424	PL.58533	C	6 A (CWC)	7.28Y	121.3	0.06	3.67	8.02	6	56	16	96	0.03	0.0	3.201	0.172	3	1	1	12

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37517	PL.37424	C	6 A (CWC)	7.28Y	121.3	0.03	3.70	4.58	3	32	9	96	0.01	0.0	3.385	0.184	7	2	1	7
PL.37425	PL.37517	C	6 A (CWC)	7.28Y	121.3	0.00	3.70	0.84	1	6	2	95	0.00	0.0	3.438	0.052	0	0	0	2
PL.38113	PL.37425	C	6 A (CWC)	7.28Y	121.3	0.00	3.70	0.84	1	6	2	95	0.00	0.0	3.526	0.088	6	2	2	2
PL.38114	PL.37517	C	6 A (CWC)	7.28Y	121.3	0.01	3.71	2.81	2	20	6	96	0.00	0.0	3.462	0.076	1	0	1	4
PL.38112	PL.38114	C	6 A (CWC)	7.28Y	121.3	0.01	3.72	2.74	2	19	6	95	0.00	0.0	3.514	0.052	1	0	1	3
PL.38115	PL.38112	C	6 A (CWC)	7.28Y	121.3	0.01	3.72	2.53	2	18	5	96	0.00	0.0	3.575	0.061	9	3	1	2
PL.38116	PL.38115	C	6 A (CWC)	7.28Y	121.3	0.00	3.72	1.18	1	8	2	97	0.00	0.0	3.639	0.065	8	2	1	1
PL.38342	PL.37424	C	6 A (CWC)	7.28Y	121.3	0.02	3.68	3.02	2	21	6	96	0.00	0.0	3.358	0.156	12	4	2	4
PL.38117	PL.38342	C	6 A (CWC)	7.28Y	121.3	0.01	3.69	1.26	1	9	3	95	0.00	0.0	3.528	0.170	4	1	1	2
PL.38118	PL.38117	C	6 A (CWC)	7.28Y	121.3	0.01	3.69	0.62	0	4	1	97	0.00	0.0	3.891	0.363	4	1	1	1
PL.38119	PL.38118	C	6 A (CWC)	7.28Y	121.3	0.00	3.69	0.00	0	0	0	100	0.00	0.0	4.012	0.121	0	0	0	0
PL.38144	PL.38118	C	#2 ACSR	7.28Y	121.3	0.00	3.69	0.00	0	0	0	100	0.00	0.0	4.079	0.188	0	0	0	0
PL.37106	PL.60237	C	#4 ACSR	7.29Y	121.5	0.00	3.53	0.78	1	5	2	93	0.00	0.0	2.905	0.062	5	2	1	1
PL.60238	PL.60236	C	6 A (CWC)	7.29Y	121.5	0.00	3.49	6.05	4	42	12	96	0.00	0.0	2.745	0.003	0	0	0	8
PD.8949	PL.60238	C	25T	7.29Y	121.5	0.00	3.49	6.05	0	42	12	96	0.00	0.0	2.745	0.003	0	0	0	8
PL.60235	PD.8949	C	6 A (CWC)	7.29Y	121.5	0.05	3.54	6.05	4	42	12	96	0.02	0.0	2.919	0.173	0	0	1	8
PL.38337	PL.60235	C	6 A (CWC)	7.29Y	121.4	0.03	3.56	5.99	4	42	12	96	0.01	0.0	3.017	0.098	0	0	0	7
PL.38338	PL.38337	C	6 A (CWC)	7.29Y	121.4	0.02	3.58	4.25	3	30	9	96	0.00	0.0	3.115	0.097	0	0	0	6
PL.37280	PL.38338	C	#4 ACSR	7.28Y	121.4	0.00	3.59	1.34	1	9	3	95	0.00	0.0	3.191	0.076	9	3	1	1
PL.38339	PL.38338	C	6 A (CWC)	7.28Y	121.4	0.04	3.62	2.91	2	20	6	96	0.01	0.0	3.437	0.322	6	2	2	5
PL.38340	PL.38339	C	6 A (CWC)	7.28Y	121.4	0.02	3.64	2.07	1	15	4	97	0.00	0.0	3.634	0.197	0	0	0	3
PL.38341	PL.38340	C	6 A (CWC)	7.28Y	121.4	0.00	3.64	0.37	0	3	1	95	0.00	0.0	3.846	0.213	0	0	0	2
PL.60241	PL.38341	C	6 A (CWC)	7.28Y	121.4	0.00	3.64	0.37	0	3	1	95	0.00	0.0	3.846	0.000	0	0	0	2
PD.8950	PL.60241	C	15T	7.28Y	121.4	0.00	3.64	0.37	0	3	1	95	0.00	0.0	3.846	0.000	0	0	0	2
PL.60242	PD.8950	C	6 A (CWC)	7.28Y	121.4	0.00	3.64	0.37	0	3	1	95	0.00	0.0	3.847	0.000	0	0	0	2
PL.60239	PL.60242	C	6 A (CWC)	7.28Y	121.4	0.00	3.64	0.17	0	1	0	100	0.00	0.0	3.942	0.095	1	0	1	1
PL.60240	PL.60242	C	6 A (CWC)	7.28Y	121.4	0.00	3.64	0.19	0	1	0	100	0.00	0.0	4.183	0.337	1	0	1	1
PL.37306	PL.38340	C	#4 ACSR	7.28Y	121.4	0.00	3.64	1.71	1	12	3	97	0.00	0.0	3.702	0.068	12	3	1	1
PL.37107	PL.38337	C	6 A (CWC)	7.29Y	121.4	0.00	3.57	1.73	1	12	4	95	0.00	0.0	3.072	0.055	12	4	1	1
PL.62580	PL.62579	B	#4 ACSR	7.30Y	121.6	0.00	3.36	0.99	1	7	2	96	0.00	0.0	2.551	0.001	0	0	0	1
PD.7428	PL.62580	B	40QA	7.30Y	121.6	0.00	3.36	0.99	2	7	2	96	0.00	0.0	2.551	0.001	0	0	0	1

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.46975	PD.7428	B	#4 ACSR	7.30Y	121.6	0.00	3.36	0.99	1	7	2	96	0.00	0.0	2.590	0.040	7	2	1	1
PL.47463	PL.62819	ABC	336 MCM AC	7.30Y	121.6	0.08	3.41	146.87	28	3067	969	95	1.22	0.0	2.502	0.067	9	3	1	443
PL.46922	PL.47463	ABC	336 MCM AC	7.29Y	121.5	0.07	3.49	146.15	28	3050	962	95	1.14	0.0	2.566	0.063	0	0	0	440
PL.46915	PL.46922	A	#4 ACSR	7.29Y	121.5	0.00	3.49	7.84	6	55	16	96	0.00	0.0	2.567	0.001	0	0	0	5
PD.7380	PL.46915	A	40QA	7.29Y	121.5	0.00	3.49	7.84	20	55	16	96	0.00	0.0	2.567	0.001	0	0	0	5
PL.46916	PD.7380	A	#4 ACSR	7.29Y	121.5	0.03	3.52	7.84	6	55	16	96	0.01	0.0	2.666	0.099	14	4	1	5
PL.46913	PL.46916	A	#4 ACSR	7.29Y	121.5	0.01	3.53	5.84	4	41	12	96	0.00	0.0	2.737	0.070	34	10	3	4
PL.58958	PL.46913	A	#4 ACSR	7.29Y	121.5	0.00	3.53	0.98	1	7	2	96	0.00	0.0	2.755	0.018	7	2	1	1
PL.63680	PL.46922	ABC	336 MCM AC	7.29Y	121.4	0.09	3.57	143.53	28	2994	944	95	1.35	0.0	2.643	0.078	0	0	0	435
PL.63682	PL.63680	ABC	#1/0 ACSR	7.28Y	121.4	0.03	3.60	20.85	9	437	128	96	0.08	0.0	2.712	0.068	0	0	0	71
PL.46917	PL.63682	ABC	#1/0 ACSR	7.28Y	121.4	0.02	3.62	19.90	9	417	122	96	0.06	0.0	2.766	0.055	0	0	0	69
PL.46921	PL.46917	ABC	#1/0 ACSR	7.28Y	121.4	0.00	3.62	19.90	9	417	122	96	0.00	0.0	2.767	0.001	0	0	0	69
PD.7558	PL.46921	ABC	50L	7.28Y	121.4	0.00	3.62	19.90	40	417	122	96	0.00	0.0	2.767	0.001	0	0	0	69
PL.46705	PD.7558	ABC	#1/0 ACSR	7.28Y	121.3	0.03	3.65	19.90	9	417	122	96	0.10	0.0	2.863	0.096	0	0	0	69
PL.47433	PL.46705	C	#2 ACSR	7.28Y	121.3	0.00	3.65	3.12	2	22	6	96	0.00	0.0	2.905	0.042	22	6	3	3
PL.63993	PL.46705	ABC	#1/0 ACSR	7.28Y	121.3	0.03	3.68	18.86	8	395	116	96	0.07	0.0	2.941	0.078	0	0	0	66
PL.63995	PL.63993	A	#4 ACSR	7.28Y	121.3	0.00	3.68	0.20	0	1	0	100	0.00	0.0	2.942	0.001	0	0	0	1
PD.7429	PL.63995	A	40QA	7.28Y	121.3	0.00	3.68	0.20	1	1	0	100	0.00	0.0	2.942	0.001	0	0	0	1
PL.48563	PD.7429	A	#4 ACSR	7.28Y	121.3	0.00	3.68	0.20	0	1	0	100	0.00	0.0	3.009	0.067	1	0	1	1
PL.63994	PL.63993	ABC	#1/0 ACSR	7.28Y	121.3	0.02	3.70	18.53	8	388	113	96	0.05	0.0	2.994	0.053	17	5	3	64
PL.48562	PL.63994	ABC	#1/0 ACSR	7.28Y	121.3	0.03	3.73	17.74	8	372	109	96	0.08	0.0	3.092	0.098	0	0	0	61
PL.48565	PL.48562	ABC	#1/0 ACSR	7.27Y	121.2	0.03	3.76	17.25	8	361	106	96	0.07	0.0	3.182	0.090	0	0	0	59
PL.48568	PL.48565	ABC	#1/0 ACSR	7.27Y	121.2	0.03	3.79	17.05	7	357	104	96	0.09	0.0	3.296	0.114	11	3	6	58
PL.48569	PL.48568	C	#2 ACSR	7.27Y	121.2	0.00	3.79	2.42	1	17	5	96	0.00	0.0	3.301	0.006	0	0	0	1
PD.7541	PL.48569	C	40QA	7.27Y	121.2	0.00	3.79	2.42	6	17	5	96	0.00	0.0	3.301	0.006	0	0	0	1
PL.48570	PD.7541	C	#2 ACSR	7.27Y	121.2	0.00	3.79	2.42	1	17	5	96	0.00	0.0	3.342	0.041	17	5	1	1
PL.48571	PL.48568	ABC	#1/0 ACSR	7.27Y	121.2	0.02	3.81	15.73	7	329	96	96	0.04	0.0	3.361	0.065	0	0	0	51
PL.48613	PL.48571	ABC	#1/0 ACSR	7.27Y	121.2	0.01	3.82	15.73	7	329	96	96	0.02	0.0	3.385	0.024	8	2	1	51
PL.48615	PL.48613	C	6 A (CWC)	7.27Y	121.2	0.00	3.82	3.10	2	22	6	96	0.00	0.0	3.391	0.006	0	0	0	2
PD.7447	PL.48615	C	40QA	7.27Y	121.2	0.00	3.82	3.10	8	22	6	96	0.00	0.0	3.391	0.006	0	0	0	2
PL.48616	PD.7447	C	6 A (CWC)	7.27Y	121.2	0.02	3.83	3.10	2	22	6	96	0.00	0.0	3.559	0.168	12	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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.48614	PL.48616	C	6 A (CWC)	7.27Y	121.2	0.00	3.83	1.32	1	9	3	95	0.00	0.0	3.577	0.018	9	3	1	1
PL.48617	PL.48613	ABC	#1/0 ACSR	7.27Y	121.2	0.02	3.84	14.31	6	300	87	96	0.05	0.0	3.470	0.085	3	1	1	48
PL.48620	PL.48617	ABC	#1/0 ACSR	7.27Y	121.2	0.01	3.85	14.18	6	297	87	96	0.02	0.0	3.510	0.040	0	0	0	47
PL.48621	PL.48620	ABC	#1/0 ACSR	7.27Y	121.1	0.03	3.88	14.18	6	297	87	96	0.06	0.0	3.616	0.106	0	0	0	46
PL.48624	PL.48621	A	#4 ACSR	7.27Y	121.1	0.01	3.88	26.96	21	188	55	96	0.01	0.0	3.621	0.005	0	0	0	28
PD.7450	PL.48624	A	40QA	7.27Y	121.1	0.00	3.88	26.96	67	188	55	96	0.00	0.0	3.621	0.005	0	0	0	28
PL.63996	PD.7450	A	#4 ACSR	7.26Y	121.1	0.05	3.94	26.96	21	188	55	96	0.08	0.0	3.666	0.045	0	0	0	28
PL.64168	PL.63996	A	#4 ACSR	7.26Y	121.0	0.08	4.02	17.42	13	121	35	96	0.07	0.1	3.782	0.115	22	6	3	17
PL.64165	PL.64168	A	#4 ACSR	7.26Y	121.0	0.00	4.02	0.85	1	6	2	95	0.00	0.0	3.833	0.051	6	2	1	1
PL.64170	PL.64168	A	#4 ACSR	7.26Y	121.0	0.02	4.04	8.37	6	58	17	96	0.01	0.0	3.863	0.081	29	8	4	9
PL.64275	PL.64170	A	#4 ACSR	7.26Y	120.9	0.03	4.07	4.20	3	29	9	96	0.01	0.0	4.032	0.169	10	3	1	5
PL.64207	PL.64275	A	#4 ACSR	7.26Y	120.9	0.00	4.07	2.80	2	20	6	96	0.00	0.0	4.073	0.041	10	3	3	4
PL.64208	PL.64207	A	#4 ACSR	7.26Y	120.9	0.00	4.07	1.31	1	9	3	95	0.00	0.0	4.098	0.026	9	3	1	1
PL.64169	PL.64168	A	#4 ACSR	7.26Y	121.0	0.01	4.03	5.11	4	36	10	96	0.00	0.0	3.831	0.049	16	5	2	4
PL.64277	PL.64169	A	#4 ACSR	7.26Y	121.0	0.01	4.04	2.84	2	20	6	96	0.00	0.0	3.918	0.087	0	0	0	2
PL.64171	PL.64277	A	#4 ACSR	7.26Y	120.9	0.01	4.05	2.84	2	20	6	96	0.00	0.0	4.047	0.129	9	3	1	2
PL.64172	PL.64171	A	#4 ACSR	7.26Y	120.9	0.00	4.05	1.52	1	11	3	96	0.00	0.0	4.174	0.127	11	3	1	1
PL.64278	PL.64277	A	#4 ACSR	7.26Y	121.0	0.00	4.04	0.00	0	0	0	100	0.00	0.0	3.988	0.070	0	0	0	0
PL.63998	PL.63996	A	#4 ACSR	7.26Y	121.0	0.01	3.95	5.93	5	41	12	96	0.00	0.0	3.757	0.091	33	10	3	6
PL.48627	PL.63998	A	#4 ACSR	7.26Y	121.0	0.00	3.95	1.24	1	9	3	95	0.00	0.0	3.757	0.000	0	0	0	3
PL.48630	PL.48627	A	#4 ACSR	7.26Y	121.0	0.00	3.95	1.24	1	9	3	95	0.00	0.0	3.788	0.031	2	1	2	3
PL.48631	PL.48630	A	#4 ACSR	7.26Y	121.0	0.00	3.95	0.92	1	6	2	95	0.00	0.0	3.855	0.066	6	2	1	1
PL.63997	PL.63996	A	#4 ACSR	7.26Y	121.1	0.01	3.94	3.61	3	25	7	96	0.00	0.0	3.711	0.044	12	3	2	5
PL.48626	PL.63997	A	#4 ACSR	7.26Y	121.1	0.00	3.94	1.93	1	13	4	96	0.00	0.0	3.777	0.066	13	4	3	3
PL.48625	PL.48621	B	#2 ACSR	7.27Y	121.1	0.02	3.90	15.58	9	109	32	96	0.02	0.0	3.665	0.048	0	0	0	18
PL.48634	PL.48625	B	#2 ACSR	7.26Y	121.1	0.02	3.92	14.20	8	99	29	96	0.02	0.0	3.714	0.049	0	0	1	17
PL.47265	PL.48634	B	#2 ACSR	7.26Y	121.1	0.00	3.92	0.00	0	0	0	100	0.00	0.0	3.772	0.058	0	0	0	0
PL.48635	PL.48634	B	#2 ACSR	7.26Y	121.0	0.04	3.96	14.20	8	99	29	96	0.03	0.0	3.798	0.084	9	3	1	16
PL.63999	PL.48635	B	#2 ACSR	7.26Y	121.0	0.06	4.01	12.95	7	90	26	96	0.04	0.0	3.936	0.139	0	0	0	15
PL.64000	PL.63999	B	#2 ACSR	7.26Y	121.0	0.00	4.02	2.23	1	16	5	95	0.00	0.0	3.976	0.039	10	3	1	2
PL.47499	PL.64000	B	#2 ACSR	7.26Y	121.0	0.00	4.02	0.83	0	6	2	95	0.00	0.0	4.147	0.171	6	2	1	1

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.64198	PL.63999	B	#2 ACSR	7.26Y	121.0	0.03	4.05	10.72	6	75	22	96	0.02	0.0	4.030	0.094	0	0	0	13
PL.64166	PL.64198	B	#2 ACSR	7.26Y	120.9	0.02	4.07	10.72	6	75	22	96	0.01	0.0	4.105	0.075	7	2	2	13
PL.64167	PL.64166	B	#2 ACSR	7.25Y	120.9	0.02	4.09	9.74	6	68	20	96	0.01	0.0	4.172	0.067	8	2	2	11
PL.64163	PL.64167	B	#2 ACSR	7.25Y	120.9	0.03	4.12	8.54	5	59	17	96	0.01	0.0	4.306	0.134	6	2	1	9
PL.64162	PL.64163	B	#2 ACSR	7.25Y	120.9	0.00	4.13	0.71	0	5	1	98	0.00	0.0	4.433	0.127	5	1	2	2
PL.64164	PL.64163	B	#2 ACSR	7.25Y	120.9	0.02	4.14	6.94	4	48	14	96	0.01	0.0	4.399	0.093	1	0	1	6
PL.64181	PL.64164	B	#2 ACSR	7.25Y	120.8	0.01	4.15	6.85	4	48	14	96	0.00	0.0	4.433	0.035	5	2	1	5
PL.64179	PL.64181	B	#2 ACSR	7.25Y	120.8	0.01	4.16	2.17	1	15	4	97	0.00	0.0	4.704	0.271	15	4	1	1
PL.64180	PL.64181	B	#2 ACSR	7.25Y	120.8	0.01	4.16	3.89	2	27	8	96	0.00	0.0	4.511	0.078	13	4	1	3
PL.64193	PL.64180	B	#2 ACSR	7.25Y	120.8	0.00	4.16	0.87	0	6	2	95	0.00	0.0	4.606	0.095	6	2	1	1
PL.64194	PL.64193	B	#2 ACSR	7.25Y	120.8	0.00	4.16	0.00	0	0	0	100	0.00	0.0	4.686	0.080	0	0	0	0
PL.64274	PL.64180	B	#2 ACSR	7.25Y	120.8	0.00	4.16	1.13	1	8	2	97	0.00	0.0	4.553	0.042	8	2	1	1
PL.48632	PL.48625	B	#2 ACSR	7.27Y	121.1	0.00	3.90	1.38	1	10	3	96	0.00	0.0	3.668	0.003	0	0	0	1
PD.7381	PL.48632	B	40QA	7.27Y	121.1	0.00	3.90	1.38	3	10	3	96	0.00	0.0	3.668	0.003	0	0	0	1
PL.48633	PD.7381	B	#2 ACSR	7.27Y	121.1	0.00	3.90	1.38	1	10	3	96	0.00	0.0	3.700	0.031	10	3	1	1
PL.48622	PL.48620	C	#4 ACSR	7.27Y	121.2	0.00	3.85	0.00	0	0	0	100	0.00	0.0	3.514	0.004	0	0	0	1
PD.7449	PL.48622	C	40QA	7.27Y	121.2	0.00	3.85	0.00	0	0	0	100	0.00	0.0	3.514	0.004	0	0	0	1
PL.48623	PD.7449	C	#4 ACSR	7.27Y	121.2	0.00	3.85	0.00	0	0	0	100	0.00	0.0	3.679	0.165	0	0	1	1
PL.48618	PL.48617	A	#2 ACSR	7.27Y	121.2	0.00	3.84	0.00	0	0	0	100	0.00	0.0	3.476	0.005	0	0	0	0
PD.7448	PL.48618	A	40QA	7.27Y	121.2	0.00	3.84	0.00	0	0	0	100	0.00	0.0	3.476	0.005	0	0	0	0
PL.48619	PD.7448	A	#2 ACSR	7.27Y	121.2	0.00	3.84	0.00	0	0	0	100	0.00	0.0	3.496	0.021	0	0	0	0
PL.48566	PL.48565	C	#4 ACSR	7.27Y	121.2	0.00	3.76	0.60	0	4	1	97	0.00	0.0	3.183	0.001	0	0	0	1
PD.7430	PL.48566	C	40QA	7.27Y	121.2	0.00	3.76	0.60	1	4	1	97	0.00	0.0	3.183	0.001	0	0	0	1
PL.48567	PD.7430	C	#4 ACSR	7.27Y	121.2	0.00	3.76	0.60	0	4	1	97	0.00	0.0	3.218	0.035	4	1	1	1
PL.48564	PL.48562	A	#2 ACSR	7.28Y	121.3	0.00	3.73	1.46	1	10	3	96	0.00	0.0	3.093	0.001	0	0	0	2
PD.7540	PL.48564	A	40QA	7.28Y	121.3	0.00	3.73	1.46	4	10	3	96	0.00	0.0	3.093	0.001	0	0	0	2
PL.48628	PD.7540	A	#2 ACSR	7.28Y	121.3	0.00	3.73	1.46	1	10	3	96	0.00	0.0	3.305	0.212	10	3	2	2
PL.48629	PL.48628	A	#2 ACSR	7.28Y	121.3	0.00	3.73	0.00	0	0	0	100	0.00	0.0	3.384	0.079	0	0	0	0
PL.64007	PL.63993	C	#4 ACSR	7.28Y	121.3	0.00	3.68	0.80	1	6	2	95	0.00	0.0	2.941	0.001	0	0	0	1
PD.9509	PL.64007	C	40QA	7.28Y	121.3	0.00	3.68	0.80	2	6	2	95	0.00	0.0	2.941	0.001	0	0	0	1
PL.64273	PD.9509	C	#4 ACSR	7.28Y	121.3	0.00	3.68	0.80	1	6	2	95	0.00	0.0	2.967	0.026	6	2	1	1

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.64185	PL.64273	C	#4 ACSR	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	3.290	0.323	0	0	0	0
PL.46918	PL.63682	A	#4 ACSR	7.28Y	121.4	0.00	3.60	2.84	2	20	6	96	0.00	0.0	2.725	0.013	20	6	2	2
PL.46919	PL.46918	A	#4 ACSR	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	2.807	0.082	0	0	0	0
PL.46920	PL.46919	A	#4 ACSR	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	2.880	0.073	0	0	0	0
PL.63681	PL.63680	A	6 A (CWC)	7.29Y	121.4	0.00	3.57	4.95	4	35	10	96	0.00	0.0	2.644	0.001	0	0	0	6
PD.7427	PL.63681	A	40QA	7.29Y	121.4	0.00	3.57	4.95	12	35	10	96	0.00	0.0	2.644	0.001	0	0	0	6
PL.46914	PD.7427	A	6 A (CWC)	7.29Y	121.4	0.00	3.57	4.95	4	35	10	96	0.00	0.0	2.659	0.015	0	0	0	6
PL.47530	PL.46914	A	6 A (CWC)	7.29Y	121.4	0.00	3.58	1.16	1	8	2	97	0.00	0.0	2.701	0.041	8	2	1	1
PL.47689	PL.46914	A	6 A (CWC)	7.29Y	121.4	0.00	3.58	3.79	3	27	8	96	0.00	0.0	2.679	0.019	17	5	2	5
PL.58959	PL.47689	A	6 A (CWC)	7.29Y	121.4	0.00	3.58	1.37	1	10	3	96	0.00	0.0	2.730	0.052	10	3	3	3
PL.64192	PL.63680	ABC	336 MCM AC	7.28Y	121.4	0.07	3.64	121.04	23	2521	802	95	0.96	0.0	2.721	0.078	0	0	1	358
PL.64191	PL.64192	ABC	336 MCM AC	7.28Y	121.3	0.07	3.72	121.04	23	2520	800	95	0.93	0.0	2.797	0.076	0	0	0	357
PL.63678	PL.64191	ABC	336 MCM AC	7.27Y	121.2	0.05	3.77	120.12	23	2500	792	95	0.70	0.0	2.855	0.058	0	0	0	355
PL.47226	PL.63678	C	#2 ACSR	7.27Y	121.2	0.00	3.77	2.75	2	19	6	95	0.00	0.0	2.856	0.001	0	0	0	1
PD.7313	PL.47226	C	40QA	7.27Y	121.2	0.00	3.77	2.75	7	19	6	95	0.00	0.0	2.856	0.001	0	0	0	1
PL.47227	PD.7313	C	#2 ACSR	7.27Y	121.2	0.00	3.77	2.75	2	19	6	95	0.00	0.0	2.881	0.025	19	6	1	1
PL.47680	PL.63678	ABC	336 MCM AC	7.27Y	121.1	0.11	3.88	119.20	23	2480	785	95	1.46	0.1	2.976	0.122	0	0	0	354
PL.48059	PL.47680	ABC	336 MCM AC	7.26Y	121.1	0.04	3.92	111.91	22	2326	737	95	0.43	0.0	3.017	0.041	6	2	1	329
PL.48058	PL.48059	ABC	336 MCM AC	7.25Y	120.9	0.18	4.09	111.64	22	2320	735	95	2.13	0.1	3.220	0.203	0	0	0	328
PL.47550	PL.48058	ABC	336 MCM AC	7.25Y	120.8	0.12	4.22	106.45	21	2209	698	95	1.41	0.1	3.368	0.148	13	4	2	311
PL.48167	PL.47550	B	6 A (CWC)	7.25Y	120.8	0.00	4.22	8.19	6	57	17	96	0.00	0.0	3.370	0.001	0	0	0	8
PD.7314	PL.48167	B	50T	7.25Y	120.8	0.00	4.22	8.19	0	57	17	96	0.00	0.0	3.370	0.001	0	0	0	8
PL.57856	PD.7314	B	6 A (CWC)	7.25Y	120.8	0.03	4.25	8.19	6	57	17	96	0.01	0.0	3.463	0.093	13	4	1	8
PL.57857	PL.57856	B	6 A (CWC)	7.24Y	120.7	0.05	4.30	6.27	4	44	13	96	0.02	0.0	3.641	0.178	1	0	1	7
PL.57855	PL.57857	B	6 A (CWC)	7.24Y	120.6	0.05	4.35	6.16	4	43	12	96	0.02	0.0	3.836	0.195	4	1	1	6
PL.47676	PL.57855	B	6 A (CWC)	7.24Y	120.6	0.02	4.37	2.90	2	20	6	96	0.00	0.0	3.949	0.113	0	0	0	3
PL.47366	PL.47676	B	6 A (CWC)	7.24Y	120.6	0.00	4.37	0.77	1	5	2	93	0.00	0.0	4.057	0.107	5	2	1	1
PL.47677	PL.47676	B	6 A (CWC)	7.24Y	120.6	0.00	4.37	2.12	2	15	4	97	0.00	0.0	4.018	0.068	15	4	2	2
PL.47805	PL.57855	B	#2 ACSR	7.24Y	120.6	0.00	4.35	2.73	2	19	6	95	0.00	0.0	3.849	0.013	11	3	1	2
PL.47675	PL.47805	B	#2 ACSR	7.24Y	120.6	0.00	4.35	1.09	1	8	2	97	0.00	0.0	3.985	0.136	8	2	1	1
PL.47731	PL.47550	ABC	336 MCM AC	7.24Y	120.7	0.05	4.27	103.08	20	2137	674	95	0.57	0.0	3.432	0.063	0	0	1	301

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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.47730	PL.47731	ABC	336 MCM AC	7.23Y	120.6	0.16	4.43	103.07	20	2136	673	95	1.80	0.1	3.633	0.201	2	1	1	300
PL.46743	PL.47730	ABC	336 MCM AC	7.23Y	120.5	0.07	4.49	102.98	20	2133	668	95	0.76	0.0	3.718	0.085	0	0	0	299
PL.46744	PL.46743	A	#4 ACSR	7.23Y	120.5	0.00	4.49	0.90	1	6	2	95	0.00	0.0	3.723	0.005	0	0	0	1
PD.7539	PL.46744	A	40QA	7.23Y	120.5	0.00	4.49	0.90	2	6	2	95	0.00	0.0	3.723	0.005	0	0	0	1
PL.47138	PD.7539	A	#4 ACSR	7.23Y	120.5	0.00	4.49	0.90	1	6	2	95	0.00	0.0	3.755	0.032	6	2	1	1
PL.46742	PL.46743	ABC	336 MCM AC	7.23Y	120.4	0.07	4.56	102.68	20	2126	664	95	0.75	0.0	3.803	0.085	0	0	0	298
PL.46741	PL.46742	ABC	336 MCM AC	7.23Y	120.4	0.00	4.56	102.68	20	2125	663	95	0.03	0.0	3.806	0.003	0	0	0	298
PL.46734	PL.46741	ABC	336 MCM AC	7.22Y	120.3	0.09	4.65	102.68	20	2125	663	95	1.00	0.0	3.919	0.113	0	0	0	298
PL.46735	PL.46734	A	#2 ACSR	7.22Y	120.3	0.00	4.65	0.71	0	5	1	98	0.00	0.0	3.925	0.006	0	0	0	1
PD.7519	PL.46735	A	40QA	7.22Y	120.3	0.00	4.65	0.71	2	5	1	98	0.00	0.0	3.925	0.006	0	0	0	1
PL.46740	PD.7519	A	#2 ACSR	7.22Y	120.3	0.00	4.65	0.71	0	5	1	98	0.00	0.0	3.988	0.063	5	1	1	1
PL.46733	PL.46734	ABC	336 MCM AC	7.22Y	120.3	0.06	4.71	102.45	20	2119	659	95	0.64	0.0	3.991	0.072	0	0	0	297
PL.48056	PL.46733	A	#2 ACSR	7.22Y	120.3	0.00	4.71	0.15	0	1	0	100	0.00	0.0	3.996	0.005	0	0	0	1
PD.7423	PL.48056	A	40QA	7.22Y	120.3	0.00	4.71	0.15	0	1	0	100	0.00	0.0	3.996	0.005	0	0	0	1
PL.48057	PD.7423	A	#2 ACSR	7.22Y	120.3	0.00	4.71	0.15	0	1	0	100	0.00	0.0	4.040	0.043	1	0	1	1
PL.48055	PL.46733	ABC	336 MCM AC	7.21Y	120.2	0.10	4.81	102.40	20	2118	657	96	1.17	0.1	4.124	0.132	0	0	1	296
PL.48054	PL.48055	ABC	336 MCM AC	7.21Y	120.1	0.10	4.92	102.38	20	2116	654	96	1.14	0.1	4.253	0.129	16	5	1	295
PL.48053	PL.48054	ABC	336 MCM AC	7.20Y	120.0	0.05	4.97	101.63	20	2099	647	96	0.55	0.0	4.316	0.063	0	0	0	294
PL.63677	PL.48053	ABC	336 MCM AC	7.19Y	119.8	0.24	5.20	100.57	19	2077	639	96	2.60	0.1	4.621	0.306	0	0	0	292
PL.63675	PL.63677	ABC	336 MCM AC	7.18Y	119.7	0.14	5.34	98.61	19	2034	621	96	1.51	0.1	4.805	0.184	0	0	0	284
PL.47532	PL.63675	A	#2 ACSR	7.18Y	119.7	0.00	5.34	0.20	0	1	0	100	0.00	0.0	4.843	0.038	1	0	1	1
PL.48561	PL.63675	ABC	336 MCM AC	7.18Y	119.6	0.05	5.39	98.54	19	2031	618	96	0.50	0.0	4.867	0.062	0	0	0	283
PL.48556	PL.48561	ABC	336 MCM AC	7.18Y	119.6	0.00	5.39	98.54	19	2030	616	96	0.00	0.0	4.867	0.000	0	0	0	283
PL.48555	PL.48556	ABC	336 MCM AC	7.17Y	119.6	0.03	5.42	98.07	19	2020	614	96	0.32	0.0	4.907	0.040	0	0	0	281
PL.62499	PL.48555	A	#2 ACSR	7.17Y	119.6	0.00	5.42	1.66	1	11	3	96	0.00	0.0	4.996	0.088	0	0	0	3
PD.9369	PL.62499	A	25T	7.17Y	119.6	0.00	5.42	1.66	0	11	3	96	0.00	0.0	4.996	0.088	0	0	0	3
PL.62500	PD.9369	A	#2 ACSR	7.17Y	119.6	0.00	5.42	1.66	1	11	3	96	0.00	0.0	4.999	0.004	0	0	0	3
PL.62434	PL.62500	A	#2 ACSR	7.17Y	119.6	0.00	5.42	0.32	0	2	1	89	0.00	0.0	5.119	0.120	0	0	0	2
PL.48048	PL.62434	A	#2 ACSR	7.17Y	119.6	0.00	5.42	0.32	0	2	1	89	0.00	0.0	5.120	0.001	0	0	0	2
PD.7517	PL.48048	A	40QA	7.17Y	119.6	0.00	5.42	0.32	1	2	1	89	0.00	0.0	5.120	0.001	0	0	0	2
PL.48049	PD.7517	A	#2 ACSR	7.17Y	119.6	0.00	5.42	0.32	0	2	1	89	0.00	0.0	5.190	0.070	2	0	1	2

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.48050	PL.48049	A	#2 ACSR	7.17Y	119.6	0.00	5.42	0.07	0	1	0	100	0.00	0.0	5.259	0.069	1	0	1	1
PL.62498	PL.62500	A	#2 ACSR	7.17Y	119.6	0.01	5.43	1.34	1	9	3	95	0.00	0.0	5.438	0.439	9	3	1	1
PL.48554	PL.48555	ABC	336 MCM AC	7.17Y	119.5	0.11	5.53	97.52	19	2009	609	96	1.21	0.1	5.059	0.151	0	0	0	278
PL.48553	PL.48554	ABC	336 MCM AC	7.17Y	119.4	0.03	5.56	96.94	19	1996	603	96	0.31	0.0	5.099	0.040	21	6	2	277
PL.48550	PL.48553	ABC	336 MCM AC	7.16Y	119.4	0.05	5.61	95.92	18	1974	596	96	0.49	0.0	5.162	0.064	15	4	1	275
PL.57390	PL.48550	ABC	336 MCM AC	7.16Y	119.3	0.07	5.67	95.19	18	1958	591	96	0.71	0.0	5.256	0.094	9	3	1	274
PL.57387	PL.57390	ABC	#1/0 ACSR	7.16Y	119.3	0.03	5.71	74.83	33	1539	465	96	0.35	0.0	5.280	0.024	0	0	0	214
PL.47918	PL.57387	ABC	#1/0 ACSR	7.16Y	119.3	0.00	5.71	74.83	33	1538	464	96	0.01	0.0	5.280	0.001	0	0	0	214
PD.7555	PL.47918	ABC	140L	7.16Y	119.3	0.00	5.71	74.83	53	1538	464	96	0.00	0.0	5.280	0.001	0	0	0	214
PL.47919	PD.7555	ABC	#1/0 ACSR	7.16Y	119.3	0.02	5.73	74.83	33	1538	464	96	0.25	0.0	5.297	0.017	2	1	1	214
PL.57930	PL.47919	ABC	#1/0 ACSR	7.15Y	119.2	0.11	5.84	74.73	32	1536	463	96	1.24	0.1	5.381	0.084	12	3	3	213
PL.57931	PL.57930	ABC	#1/0 ACSR	7.15Y	119.1	0.07	5.91	74.17	32	1523	459	96	0.74	0.0	5.432	0.050	0	0	0	210
PL.64068	PL.57931	ABC	#1/0 ACSR	7.14Y	119.0	0.13	6.04	74.17	32	1522	458	96	1.42	0.1	5.529	0.098	7	2	1	210
REG38	PL.64068	ABC	114.3 KVA	7.51Y	125.2	-6.26	-0.22	73.84	49	1514	455	96	percent Boost= 5.00 Tap= 8.0							209
PL.64069	REG38	ABC	#1/0 ACSR	7.51Y	125.2	0.05	-0.17	70.15	30	1514	455	96	0.49	0.0	5.567	0.037	0	0	0	209
PL.48337	PL.64069	A	#4 ACSR	7.51Y	125.2	0.00	-0.17	0.00	0	0	0	100	0.00	0.0	5.568	0.002	0	0	0	0
PD.7496	PL.48337	A	40QA	7.51Y	125.2	0.00	-0.17	0.00	0	0	0	100	0.00	0.0	5.568	0.002	0	0	0	0
PL.48338	PD.7496	A	#4 ACSR	7.51Y	125.2	0.00	-0.17	0.00	0	0	0	100	0.00	0.0	5.613	0.045	0	0	0	0
PL.48339	PL.48338	A	#4 ACSR	7.51Y	125.2	0.00	-0.17	0.00	0	0	0	100	0.00	0.0	5.689	0.075	0	0	0	0
PL.48336	PL.64069	ABC	#1/0 ACSR	7.47Y	124.6	0.60	0.43	70.15	30	1514	454	96	6.08	0.4	6.035	0.468	18	5	3	209
PL.62584	PL.48336	ABC	#1/0 ACSR	7.47Y	124.6	0.01	0.44	49.95	22	1073	320	96	0.10	0.0	6.050	0.015	0	0	0	149
PL.64259	PL.62584	ABC	#1/0 ACSR	7.47Y	124.5	0.07	0.51	49.95	22	1073	320	96	0.53	0.0	6.130	0.080	0	0	0	149
PL.64258	PL.64259	C	6 A (CWC)	7.47Y	124.5	0.00	0.52	2.72	2	19	6	95	0.00	0.0	6.178	0.048	19	6	2	2
PL.64276	PL.64259	ABC	#1/0 ACSR	7.47Y	124.4	0.04	0.55	49.05	21	1053	314	96	0.30	0.0	6.177	0.047	10	3	1	147
PL.64186	PL.64276	ABC	#1/0 ACSR	7.46Y	124.4	0.04	0.60	48.58	21	1043	311	96	0.29	0.0	6.224	0.047	25	7	2	146
PL.64188	PL.64186	B	#2 ACSR	7.46Y	124.4	0.00	0.60	0.85	0	6	2	95	0.00	0.0	6.225	0.001	0	0	0	2
PD.9506	PL.64188	B	40QA	7.46Y	124.4	0.00	0.60	0.85	2	6	2	95	0.00	0.0	6.225	0.001	0	0	0	2
PL.64006	PD.9506	B	#2 ACSR	7.46Y	124.4	0.00	0.60	0.85	0	6	2	95	0.00	0.0	6.334	0.110	0	0	0	2
PL.64260	PL.64006	B	#2 ACSR	7.46Y	124.4	0.00	0.60	0.26	0	2	1	89	0.00	0.0	6.374	0.040	2	1	1	1
PL.64261	PL.64006	B	#2 ACSR	7.46Y	124.4	0.00	0.60	0.58	0	4	1	97	0.00	0.0	6.454	0.120	4	1	1	1
PL.64187	PL.64186	ABC	#1/0 ACSR	7.46Y	124.4	0.05	0.64	47.13	20	1011	301	96	0.33	0.0	6.280	0.056	0	0	1	142

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.64204	PL.64187	ABC	#1/0 ACSR	7.46Y	124.3	0.04	0.69	47.13	20	1011	301	96	0.29	0.0	6.328	0.049	0	0	2	141
PL.64205	PL.64204	C	#2 ACSR	7.46Y	124.3	0.00	0.69	0.00	0	0	0	100	0.00	0.0	6.330	0.001	0	0	0	1
PD.9507	PL.64205	C	40QA	7.46Y	124.3	0.00	0.69	0.00	0	0	0	100	0.00	0.0	6.330	0.001	0	0	0	1
PL.64213	PD.9507	C	#2 ACSR	7.46Y	124.3	0.00	0.69	0.00	0	0	0	100	0.00	0.0	6.375	0.045	0	0	1	1
PL.64206	PL.64204	ABC	#1/0 ACSR	7.46Y	124.3	0.06	0.74	47.13	20	1011	301	96	0.39	0.0	6.393	0.065	0	0	0	138
PL.64262	PL.64206	ABC	#1/0 ACSR	7.45Y	124.2	0.02	0.76	47.13	20	1010	300	96	0.11	0.0	6.412	0.019	0	0	0	138
PL.47495	PL.64262	ABC	#1/0 ACSR	7.45Y	124.2	0.03	0.79	47.13	20	1010	300	96	0.21	0.0	6.448	0.036	0	0	0	138
PL.47498	PL.47495	ABC	#1/0 ACSR	7.45Y	124.2	0.05	0.84	47.13	20	1010	300	96	0.36	0.0	6.509	0.061	0	0	0	138
PL.47758	PL.47498	A	#4 ACSR	7.45Y	124.2	0.00	0.84	0.00	0	0	0	100	0.00	0.0	6.548	0.039	0	0	0	0
PL.48340	PL.47498	ABC	#1/0 ACSR	7.45Y	124.1	0.07	0.91	47.13	20	1010	300	96	0.45	0.0	6.585	0.076	0	0	0	138
PL.57393	PL.48340	ABC	#1/0 ACSR	7.44Y	124.1	0.04	0.95	46.40	20	994	295	96	0.29	0.0	6.637	0.052	18	5	2	136
PL.57394	PL.57393	ABC	#1/0 ACSR	7.44Y	124.0	0.04	0.99	45.57	20	975	289	96	0.27	0.0	6.686	0.049	0	0	0	134
PL.47693	PL.57394	C	#4 ACSR	7.44Y	124.0	0.00	0.99	0.69	1	5	1	98	0.00	0.0	6.730	0.044	5	1	1	1
PL.48341	PL.57394	ABC	#1/0 ACSR	7.44Y	123.9	0.07	1.06	45.34	20	970	288	96	0.44	0.0	6.768	0.082	8	2	1	133
PL.48342	PL.48341	ABC	#1/0 ACSR	7.43Y	123.9	0.05	1.10	44.35	19	949	281	96	0.29	0.0	6.825	0.057	34	10	3	131
PL.64263	PL.48342	ABC	#1/0 ACSR	7.43Y	123.9	0.03	1.14	42.78	19	915	271	96	0.22	0.0	6.869	0.044	0	0	0	128
PL.64264	PL.64263	C	#2 ACSR	7.43Y	123.9	0.00	1.14	0.00	0	0	0	100	0.00	0.0	6.870	0.001	0	0	0	1
PD.7581	PL.64264	C	25QA	7.43Y	123.9	0.00	1.14	0.00	0	0	0	100	0.00	0.0	6.870	0.001	0	0	0	1
PL.48343	PD.7581	C	#2 ACSR	7.43Y	123.9	0.00	1.14	0.00	0	0	0	100	0.00	0.0	6.898	0.027	0	0	1	1
PL.64270	PL.64263	ABC	#1/0 ACSR	7.43Y	123.8	0.04	1.18	42.78	19	914	271	96	0.24	0.0	6.919	0.050	2	1	1	127
PL.64271	PL.64270	C	#4 ACSR	7.43Y	123.8	0.00	1.18	4.03	3	29	8	96	0.00	0.0	6.921	0.001	0	0	0	4
PD.9508	PL.64271	C	40QA	7.43Y	123.8	0.00	1.18	4.03	10	29	8	96	0.00	0.0	6.921	0.001	0	0	0	4
PL.64203	PD.9508	C	#4 ACSR	7.43Y	123.8	0.01	1.18	4.03	3	29	8	96	0.00	0.0	6.983	0.063	15	4	1	4
PL.64202	PL.64203	C	#4 ACSR	7.43Y	123.8	0.00	1.19	1.10	1	8	2	97	0.00	0.0	7.032	0.048	8	2	2	2
PL.64178	PL.64203	C	#4 ACSR	7.43Y	123.8	0.00	1.19	0.88	1	6	2	95	0.00	0.0	7.068	0.085	6	2	1	1
PL.64272	PL.64270	ABC	#1/0 ACSR	7.43Y	123.8	0.04	1.22	40.82	18	872	258	96	0.23	0.0	6.973	0.053	26	8	1	121
PL.64196	PL.64272	ABC	#1/0 ACSR	7.42Y	123.7	0.05	1.27	39.59	17	846	250	96	0.29	0.0	7.043	0.071	14	4	2	120
PL.64195	PL.64196	A	#2 ACSR	7.42Y	123.7	0.00	1.27	0.25	0	2	1	89	0.00	0.0	7.061	0.018	2	1	2	2
PL.64174	PL.64196	C	#4 ACSR	7.42Y	123.7	0.00	1.27	5.84	4	42	12	96	0.00	0.0	7.065	0.022	13	4	1	3
PL.64173	PL.64174	C	#4 ACSR	7.42Y	123.7	0.01	1.28	3.98	3	28	8	96	0.00	0.0	7.183	0.118	28	8	2	2
PL.64197	PL.64196	ABC	#1/0 ACSR	7.42Y	123.7	0.00	1.27	36.93	16	789	234	96	0.00	0.0	7.044	0.000	0	0	0	113

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.64265	PL.64197	ABC	#1/0 ACSR	7.42Y	123.7	0.06	1.33	36.93	16	789	234	96	0.35	0.0	7.141	0.097	8	2	1	113
PL.46895	PL.64265	ABC	#1/0 ACSR	7.42Y	123.6	0.05	1.38	36.56	16	780	231	96	0.28	0.0	7.220	0.080	0	0	0	112
PL.47748	PL.46895	C	#2 ACSR	7.42Y	123.6	0.00	1.38	1.61	1	11	3	96	0.00	0.0	7.221	0.001	0	0	0	1
PD.7378	PL.47748	C	40QA	7.42Y	123.6	0.00	1.38	1.61	4	11	3	96	0.00	0.0	7.221	0.001	0	0	0	1
PL.47749	PD.7378	C	#2 ACSR	7.42Y	123.6	0.00	1.38	1.61	1	11	3	96	0.00	0.0	7.262	0.041	11	3	1	1
PL.47750	PL.46895	ABC	#1/0 ACSR	7.42Y	123.6	0.02	1.40	36.02	16	769	227	96	0.11	0.0	7.251	0.031	0	0	0	111
PL.47830	PL.47750	ABC	#1/0 ACSR	7.41Y	123.6	0.04	1.45	34.79	15	742	220	96	0.22	0.0	7.319	0.068	1	0	1	108
PL.47831	PL.47830	ABC	#1/0 ACSR	7.41Y	123.5	0.09	1.54	34.76	15	741	219	96	0.48	0.1	7.468	0.149	3	1	1	107
PL.47832	PL.47831	ABC	#1/0 ACSR	7.40Y	123.4	0.09	1.64	34.60	15	738	218	96	0.48	0.1	7.619	0.151	0	0	0	106
PL.47833	PL.47832	A	#2 ACSR	7.40Y	123.4	0.00	1.64	1.69	1	12	3	97	0.00	0.0	7.625	0.006	0	0	0	1
PD.7176	PL.47833	A	40QA	7.40Y	123.4	0.00	1.64	1.69	4	12	3	97	0.00	0.0	7.625	0.006	0	0	0	1
PL.47834	PD.7176	A	#2 ACSR	7.40Y	123.4	0.00	1.64	1.69	1	12	3	97	0.00	0.0	7.690	0.065	12	3	1	1
PL.47837	PL.47832	ABC	#1/0 ACSR	7.40Y	123.3	0.03	1.67	34.04	15	725	214	96	0.15	0.0	7.668	0.049	0	0	0	105
PL.47835	PL.47837	A	#2 ACSR	7.40Y	123.3	0.00	1.67	0.47	0	3	1	95	0.00	0.0	7.674	0.006	0	0	0	1
PD.7323	PL.47835	A	40QA	7.40Y	123.3	0.00	1.67	0.47	1	3	1	95	0.00	0.0	7.674	0.006	0	0	0	1
PL.47836	PD.7323	A	#2 ACSR	7.40Y	123.3	0.00	1.67	0.47	0	3	1	95	0.00	0.0	7.736	0.062	3	1	1	1
PL.47838	PL.47837	ABC	#1/0 ACSR	7.39Y	123.2	0.09	1.76	33.89	15	722	213	96	0.47	0.1	7.821	0.153	0	0	0	104
PL.47839	PL.47838	A	#2 ACSR	7.39Y	123.2	0.00	1.76	0.00	0	0	0	100	0.00	0.0	7.826	0.005	0	0	0	0
PD.7322	PL.47839	A	40QA	7.39Y	123.2	0.00	1.76	0.00	0	0	0	100	0.00	0.0	7.826	0.005	0	0	0	0
PL.47840	PD.7322	A	#2 ACSR	7.39Y	123.2	0.00	1.76	0.00	0	0	0	100	0.00	0.0	7.855	0.028	0	0	0	0
PL.47647	PL.47838	C	#2 ACSR	7.39Y	123.2	0.00	1.76	0.52	0	4	1	97	0.00	0.0	7.855	0.034	4	1	1	1
PL.47841	PL.47838	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.78	33.71	15	717	211	96	0.11	0.0	7.857	0.035	0	0	0	103
PL.47556	PL.47841	A	#2 ACSR	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	7.887	0.030	0	0	0	0
PL.47842	PL.47841	ABC	#1/0 ACSR	7.39Y	123.2	0.03	1.81	33.71	15	717	211	96	0.15	0.0	7.907	0.050	0	0	0	103
PL.47843	PL.47842	ABC	#1/0 ACSR	7.39Y	123.1	0.06	1.88	32.50	14	691	203	96	0.30	0.0	8.015	0.108	20	6	2	101
PL.47846	PL.47843	C	#4 ACSR	7.39Y	123.1	0.00	1.88	7.40	6	52	15	96	0.00	0.0	8.020	0.005	0	0	0	9
PD.7516	PL.47846	C	40QA	7.39Y	123.1	0.00	1.88	7.40	18	52	15	96	0.00	0.0	8.020	0.005	0	0	0	9
PL.47847	PD.7516	C	#4 ACSR	7.39Y	123.1	0.01	1.89	7.40	6	52	15	96	0.00	0.0	8.076	0.057	29	8	5	9
PL.47848	PL.47847	C	#4 ACSR	7.39Y	123.1	0.02	1.91	3.28	3	23	7	96	0.00	0.0	8.283	0.207	23	7	4	4
PL.47849	PL.47843	ABC	#1/0 ACSR	7.38Y	123.1	0.04	1.92	29.08	13	618	182	96	0.18	0.0	8.095	0.080	6	2	1	90
PL.47641	PL.47849	C	#2 ACSR	7.38Y	123.1	0.00	1.92	2.02	1	14	4	96	0.00	0.0	8.116	0.021	14	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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.47399	PL.47849	ABC	#1/0 ACSR	7.38Y	123.0	0.03	1.95	26.67	12	567	167	96	0.12	0.0	8.160	0.065	0	0	1	84
PL.47400	PL.47399	ABC	#1/0 ACSR	7.38Y	123.0	0.03	1.98	26.66	12	566	167	96	0.11	0.0	8.218	0.058	8	2	1	83
PL.47401	PL.47400	ABC	#1/0 ACSR	7.38Y	123.0	0.03	2.01	26.27	11	558	164	96	0.12	0.0	8.282	0.064	4	1	1	82
PL.47402	PL.47401	ABC	#1/0 ACSR	7.37Y	122.9	0.10	2.11	26.09	11	554	163	96	0.39	0.1	8.499	0.217	0	0	0	81
PL.47403	PL.47402	A	6 A (CWC)	7.37Y	122.9	0.00	2.11	9.51	7	67	20	96	0.00	0.0	8.503	0.004	0	0	0	8
PD.7379	PL.47403	A	40QA	7.37Y	122.9	0.00	2.11	9.51	24	67	20	96	0.00	0.0	8.503	0.004	0	0	0	8
PL.59558	PD.7379	A	6 A (CWC)	7.37Y	122.8	0.04	2.16	9.51	7	67	20	96	0.02	0.0	8.604	0.101	1	0	1	8
PL.59559	PL.59558	A	6 A (CWC)	7.37Y	122.8	0.06	2.22	9.33	7	66	19	96	0.03	0.0	8.754	0.150	5	2	1	7
PL.59560	PL.59559	A	6 A (CWC)	7.37Y	122.8	0.03	2.25	8.56	6	61	18	96	0.01	0.0	8.832	0.079	0	0	0	6
PL.59557	PL.59560	A	6 A (CWC)	7.36Y	122.7	0.04	2.29	6.21	4	44	13	96	0.01	0.0	9.016	0.184	25	7	3	4
PL.61956	PL.59557	A	#1/0 ACSR	7.36Y	122.7	0.01	2.29	2.73	1	19	6	95	0.00	0.0	9.180	0.164	19	6	1	1
PL.61770	PL.59560	A	6 A (CWC)	7.36Y	122.7	0.01	2.26	2.35	2	17	5	96	0.00	0.0	8.903	0.071	0	0	0	2
PL.61772	PL.61770	A	#1/0 ACSR	7.36Y	122.7	0.00	2.26	1.80	1	13	4	96	0.00	0.0	8.951	0.047	13	4	1	1
PL.61771	PL.61770	A	6 A (CWC)	7.36Y	122.7	0.00	2.26	0.56	0	4	1	97	0.00	0.0	8.983	0.080	0	0	0	1
PL.60051	PL.61771	A	#1/0 ACSR	7.36Y	122.7	0.00	2.26	0.56	0	4	1	97	0.00	0.0	9.070	0.087	4	1	1	1
PL.47486	PL.47402	ABC	#1/0 ACSR	7.37Y	122.9	0.02	2.13	22.92	10	486	143	96	0.06	0.0	8.541	0.042	0	0	0	73
PL.47488	PL.47486	C	#4 ACSR	7.37Y	122.9	0.00	2.13	1.37	1	10	3	96	0.00	0.0	8.543	0.002	0	0	0	1
PD.7178	PL.47488	C	40QA	7.37Y	122.9	0.00	2.13	1.37	3	10	3	96	0.00	0.0	8.543	0.002	0	0	0	1
PL.47489	PD.7178	C	#4 ACSR	7.37Y	122.9	0.00	2.13	1.37	1	10	3	96	0.00	0.0	8.589	0.046	10	3	1	1
PL.47487	PL.47486	ABC	#1/0 ACSR	7.37Y	122.9	0.02	2.15	22.46	10	477	140	96	0.05	0.0	8.580	0.039	0	0	0	72
PL.47484	PL.47487	A	#2 ACSR	7.37Y	122.9	0.00	2.15	1.47	1	10	3	96	0.00	0.0	8.583	0.003	0	0	0	1
PD.7537	PL.47484	A	40QA	7.37Y	122.9	0.00	2.15	1.47	4	10	3	96	0.00	0.0	8.583	0.003	0	0	0	1
PL.47485	PD.7537	A	#2 ACSR	7.37Y	122.9	0.00	2.15	1.47	1	10	3	96	0.00	0.0	8.604	0.020	10	3	1	1
PL.47490	PL.47487	ABC	#1/0 ACSR	7.37Y	122.8	0.03	2.17	21.97	10	466	137	96	0.09	0.0	8.652	0.072	0	0	0	71
PL.47493	PL.47490	ABC	#1/0 ACSR	7.37Y	122.8	0.05	2.23	21.36	9	453	133	96	0.16	0.0	8.789	0.137	11	3	2	70
PL.47820	PL.47493	A	#2 ACSR	7.37Y	122.8	0.00	2.23	0.19	0	1	0	100	0.00	0.0	8.795	0.006	0	0	0	1
PD.7592	PL.47820	A	40QA	7.37Y	122.8	0.00	2.23	0.19	0	1	0	100	0.00	0.0	8.795	0.006	0	0	0	1
PL.47821	PD.7592	A	#2 ACSR	7.37Y	122.8	0.00	2.23	0.19	0	1	0	100	0.00	0.0	8.832	0.037	0	0	0	1
PL.47494	PL.47821	A	#2 ACSR	7.37Y	122.8	0.00	2.23	0.19	0	1	0	100	0.00	0.0	8.873	0.041	1	0	1	1
PL.64754	PL.47493	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.23	20.80	9	441	130	96	0.00	0.0	8.789	0.000	0	0	0	67
PL.64755	PL.64754	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.24	20.80	9	441	130	96	0.04	0.0	8.825	0.035	5	1	1	67

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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.47822	PL.64755	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.26	20.58	9	436	128	96	0.06	0.0	8.881	0.057	4	1	1	66
PL.47823	PL.47822	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.28	20.37	9	432	127	96	0.06	0.0	8.940	0.058	1	0	2	65
PL.47824	PL.47823	ABC	#1/0 ACSR	7.36Y	122.7	0.05	2.33	20.31	9	431	126	96	0.15	0.0	9.076	0.137	0	0	0	63
PL.47903	PL.47824	C	#2 ACSR	7.36Y	122.7	0.00	2.33	0.00	0	0	0	100	0.00	0.0	9.112	0.036	0	0	1	1
PL.57829	PL.47824	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.35	20.31	9	430	126	96	0.05	0.0	9.122	0.046	34	10	4	62
PL.57830	PL.57829	ABC	#1/0 ACSR	7.36Y	122.6	0.02	2.37	18.69	8	396	116	96	0.04	0.0	9.169	0.047	7	2	1	58
PL.57831	PL.57830	ABC	#1/0 ACSR	7.36Y	122.6	0.01	2.37	18.35	8	389	114	96	0.02	0.0	9.198	0.029	22	7	2	57
PL.51797	PL.57831	ABC	#1/0 ACSR	7.36Y	122.6	0.03	2.40	17.29	8	366	107	96	0.07	0.0	9.284	0.085	3	1	1	55
PL.51798	PL.51797	C	6 A (CWC)	7.36Y	122.6	0.00	2.40	4.47	3	32	9	96	0.00	0.0	9.286	0.003	0	0	0	5
PD.9443	PL.51798	C	40QA	7.36Y	122.6	0.00	2.40	4.47	11	32	9	96	0.00	0.0	9.286	0.003	0	0	0	5
PL.64841	PD.9443	C	6 A (CWC)	7.35Y	122.6	0.02	2.42	4.47	3	32	9	96	0.00	0.0	9.378	0.092	0	0	0	5
PL.64843	PL.64841	C	#1/0 ACSR	7.35Y	122.6	0.00	2.42	0.00	0	0	0	100	0.00	0.0	9.428	0.050	0	0	1	1
PL.64842	PL.64841	C	6 A (CWC)	7.35Y	122.6	0.02	2.44	4.47	3	32	9	96	0.00	0.0	9.473	0.095	0	0	0	4
PL.62857	PL.64842	C	6 A (CWC)	7.35Y	122.6	0.00	2.44	2.16	2	15	4	97	0.00	0.0	9.500	0.027	15	4	1	1
PL.62858	PL.64842	C	6 A (CWC)	7.35Y	122.6	0.01	2.45	2.31	2	16	5	95	0.00	0.0	9.563	0.090	0	0	0	3
PL.62856	PL.62858	C	6 A (CWC)	7.35Y	122.5	0.01	2.46	2.31	2	16	5	95	0.00	0.0	9.656	0.093	3	1	1	3
PL.62855	PL.62856	C	6 A (CWC)	7.35Y	122.5	0.01	2.46	1.86	1	13	4	96	0.00	0.0	9.726	0.070	0	0	0	2
PL.61950	PL.62855	C	6 A (CWC)	7.35Y	122.5	0.02	2.48	1.86	1	13	4	96	0.00	0.0	10.081	0.355	13	4	2	2
PL.61951	PL.61950	C	6 A (CWC)	7.35Y	122.5	0.00	2.48	0.00	0	0	0	100	0.00	0.0	10.225	0.144	0	0	0	0
PL.51796	PL.62855	C	6 A (CWC)	7.35Y	122.5	0.00	2.46	0.00	0	0	0	100	0.00	0.0	9.792	0.066	0	0	0	0
PL.62860	PL.51797	A	6 A (CWC)	7.36Y	122.6	0.01	2.41	46.97	34	332	97	96	0.02	0.0	9.287	0.004	0	0	0	49
PD.9442	PL.62860	A	70L	7.36Y	122.6	0.00	2.41	46.97	67	332	97	96	0.00	0.0	9.287	0.004	0	0	0	49
PL.62859	PD.9442	A	6 A (CWC)	7.35Y	122.4	0.15	2.56	46.97	34	332	97	96	0.37	0.1	9.357	0.070	0	0	0	49
PL.51800	PL.62859	A	6 A (CWC)	7.35Y	122.4	0.00	2.56	0.95	1	7	2	96	0.00	0.0	9.360	0.004	0	0	0	2
PD.7420	PL.51800	A	40QA	7.35Y	122.4	0.00	2.56	0.95	2	7	2	96	0.00	0.0	9.360	0.004	0	0	0	2
PL.47825	PD.7420	A	6 A (CWC)	7.35Y	122.4	0.00	2.56	0.95	1	7	2	96	0.00	0.0	9.402	0.042	7	2	2	2
PL.51749	PL.62859	A	6 A (CWC)	7.34Y	122.3	0.15	2.71	46.03	33	324	95	96	0.36	0.1	9.427	0.071	0	0	0	47
PL.51748	PL.51749	A	6 A (CWC)	7.33Y	122.2	0.06	2.76	46.03	33	324	95	96	0.14	0.0	9.454	0.026	0	0	0	47
PL.51802	PL.51748	A	6 A (CWC)	7.33Y	122.2	0.00	2.77	1.81	1	13	4	96	0.00	0.0	9.510	0.056	4	1	2	4
PL.51801	PL.51802	A	6 A (CWC)	7.33Y	122.2	0.00	2.77	1.21	1	9	2	98	0.00	0.0	9.563	0.053	0	0	0	2
PL.47876	PL.51801	A	6 A (CWC)	7.33Y	122.2	0.00	2.77	0.00	0	0	0	100	0.00	0.0	9.681	0.118	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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.45993	PL.51801	A	6 A (CWC)	7.33Y	122.2	0.00	2.77	1.16	1	8	2	97	0.00	0.0	9.655	0.092	8	2	1	1
PL.46926	PL.51801	A	#2 ACSR	7.33Y	122.2	0.00	2.77	0.05	0	0	0	100	0.00	0.0	9.645	0.083	0	0	1	1
PL.46795	PL.51801	A	6 A (CWC)	7.33Y	122.2	0.00	2.77	0.00	0	0	0	100	0.00	0.0	9.612	0.049	0	0	0	0
PL.51803	PL.51748	A	6 A (CWC)	7.32Y	122.0	0.22	2.98	44.22	32	311	91	96	0.51	0.2	9.562	0.109	5	1	1	43
PL.51804	PL.51803	A	6 A (CWC)	7.31Y	121.9	0.14	3.13	43.53	31	306	89	96	0.32	0.1	9.635	0.073	15	4	4	42
PL.64148	PL.51804	A	6 A (CWC)	7.30Y	121.7	0.13	3.26	41.39	30	291	85	96	0.28	0.1	9.704	0.068	0	0	0	38
PL.64199	PL.64148	A	6 A (CWC)	7.30Y	121.7	0.03	3.29	38.17	27	268	78	96	0.07	0.0	9.723	0.019	9	3	3	34
PL.64200	PL.64199	A	6 A (CWC)	7.30Y	121.6	0.12	3.41	29.22	21	205	60	96	0.18	0.1	9.818	0.095	28	8	3	26
PL.64209	PL.64200	A	6 A (CWC)	7.29Y	121.5	0.05	3.45	25.17	18	176	51	96	0.06	0.0	9.862	0.044	24	7	1	23
PL.64182	PL.64209	A	6 A (CWC)	7.29Y	121.5	0.09	3.54	21.01	15	147	43	96	0.10	0.1	9.955	0.093	0	0	1	21
PL.64183	PL.64182	A	#4 ACSR	7.29Y	121.4	0.03	3.57	7.18	6	50	15	96	0.01	0.0	10.042	0.087	0	0	0	6
PL.64150	PL.64183	A	#4 ACSR	7.28Y	121.4	0.04	3.61	7.18	6	50	15	96	0.01	0.0	10.153	0.111	0	0	0	6
PL.47706	PL.64150	A	#4 ACSR	7.28Y	121.4	0.00	3.61	1.01	1	7	2	96	0.00	0.0	10.215	0.062	7	2	1	1
PL.47922	PL.64150	A	#4 ACSR	7.28Y	121.4	0.04	3.65	6.17	5	43	13	96	0.01	0.0	10.296	0.144	0	0	0	5
PL.47723	PL.47922	A	#2 ACSR	7.28Y	121.4	0.00	3.65	1.52	1	11	3	96	0.00	0.0	10.356	0.060	11	3	1	1
PL.47539	PL.47922	A	#1/0 ACSR	7.28Y	121.4	0.00	3.65	1.79	1	12	4	95	0.00	0.0	10.367	0.071	12	4	1	1
PL.58955	PL.47922	A	#4 ACSR	7.28Y	121.3	0.01	3.66	2.86	2	20	6	96	0.00	0.0	10.406	0.110	12	3	1	2
PL.58956	PL.58955	A	#4 ACSR	7.28Y	121.3	0.00	3.66	1.17	1	8	2	97	0.00	0.0	10.466	0.060	8	2	1	1
PL.47923	PL.47922	A	#4 ACSR	7.28Y	121.4	0.00	3.65	0.00	0	0	0	100	0.00	0.0	10.362	0.066	0	0	1	1
PL.60157	PL.47923	A	#4 ACSR	7.28Y	121.4	0.00	3.65	0.00	0	0	0	100	0.00	0.0	10.454	0.092	0	0	0	0
PL.60158	PL.60157	A	#4 ACSR	7.28Y	121.4	0.00	3.65	0.00	0	0	0	100	0.00	0.0	10.556	0.103	0	0	0	0
PL.47212	PL.47923	A	#2 ACSR	7.28Y	121.4	0.00	3.65	0.00	0	0	0	100	0.00	0.0	10.467	0.105	0	0	0	0
PL.64184	PL.64182	A	6 A (CWC)	7.28Y	121.4	0.05	3.60	13.76	10	96	28	96	0.04	0.0	10.042	0.087	7	2	1	14
PL.64211	PL.64184	A	6 A (CWC)	7.28Y	121.4	0.01	3.61	12.75	9	89	26	96	0.01	0.0	10.066	0.024	10	3	2	13
PL.64212	PL.64211	A	6 A (CWC)	7.28Y	121.3	0.04	3.65	11.26	8	79	23	96	0.03	0.0	10.157	0.091	10	3	1	11
PL.64268	PL.64212	A	6 A (CWC)	7.28Y	121.3	0.05	3.71	7.01	5	49	14	96	0.02	0.0	10.316	0.159	0	0	0	7
PL.63674	PL.64268	A	6 A (CWC)	7.28Y	121.3	0.04	3.75	7.01	5	49	14	96	0.01	0.0	10.439	0.123	0	0	1	7
PL.48409	PL.63674	A	6 A (CWC)	7.27Y	121.2	0.02	3.76	7.01	5	49	14	96	0.01	0.0	10.492	0.053	0	0	0	6
PL.48410	PL.48409	A	#4 ACSR	7.27Y	121.2	0.01	3.78	2.02	2	14	4	96	0.00	0.0	10.640	0.148	0	0	0	2
PL.47215	PL.48410	A	#4 ACSR	7.27Y	121.2	0.00	3.78	1.15	1	8	2	97	0.00	0.0	10.696	0.056	8	2	1	1
PL.48411	PL.48410	A	#4 ACSR	7.27Y	121.2	0.01	3.78	0.87	1	6	2	95	0.00	0.0	10.994	0.354	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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.48412	PL.48409	A	6 A (CWC)	7.27Y	121.2	0.02	3.78	4.99	4	35	10	96	0.01	0.0	10.585	0.093	0	0	1	4
PL.48413	PL.48412	A	6 A (CWC)	7.27Y	121.2	0.02	3.80	4.99	4	35	10	96	0.00	0.0	10.661	0.076	0	0	0	3
PL.47728	PL.48413	A	6 A (CWC)	7.27Y	121.2	0.01	3.81	3.18	2	22	6	96	0.00	0.0	10.743	0.082	22	6	1	1
PL.48414	PL.48413	A	6 A (CWC)	7.27Y	121.2	0.03	3.83	1.24	1	9	3	95	0.00	0.0	11.707	1.046	9	3	1	1
PL.47546	PL.48413	A	6 A (CWC)	7.27Y	121.2	0.00	3.80	0.57	0	4	1	97	0.00	0.0	10.716	0.055	4	1	1	1
PL.64151	PL.64268	A	#1/0 ACSR	7.28Y	121.3	0.00	3.71	0.00	0	0	0	100	0.00	0.0	10.509	0.193	0	0	0	0
PL.64269	PL.64212	A	#2 ACSR	7.28Y	121.3	0.00	3.66	2.84	2	20	6	96	0.00	0.0	10.225	0.068	19	5	2	3
PL.64190	PL.64269	A	#2 ACSR	7.28Y	121.3	0.00	3.66	0.15	0	1	0	100	0.00	0.0	10.315	0.090	1	0	1	1
PL.64201	PL.64209	A	6 A (CWC)	7.29Y	121.5	0.00	3.46	0.80	1	6	2	95	0.00	0.0	9.903	0.041	6	2	1	1
PL.64176	PL.64199	A	6 A (CWC)	7.30Y	121.7	0.00	3.29	7.72	6	54	16	96	0.00	0.0	9.738	0.016	21	6	1	5
PL.64177	PL.64176	A	6 A (CWC)	7.30Y	121.7	0.00	3.30	4.75	3	33	10	96	0.00	0.0	9.757	0.019	12	3	1	4
PL.64175	PL.64177	A	6 A (CWC)	7.30Y	121.7	0.01	3.30	2.06	1	14	4	96	0.00	0.0	9.888	0.131	14	4	1	1
PL.64189	PL.64177	A	#1/0 ACSR	7.30Y	121.7	0.00	3.30	0.99	0	7	2	96	0.00	0.0	9.809	0.052	0	0	0	2
PD.9512	PL.64189	A	20T	7.30Y	121.7	0.00	3.30	0.99	0	7	2	96	0.00	0.0	9.809	0.052	0	0	0	2
PL.64280	PD.9512	A	#1/0 ACSR	7.30Y	121.7	0.00	3.30	0.99	0	7	2	96	0.00	0.0	9.983	0.174	0	0	1	2
PL.64279	PL.64280	A	#1/0 ACSR	7.30Y	121.7	0.00	3.30	0.98	0	7	2	96	0.00	0.0	10.021	0.038	7	2	1	1
PL.64149	PL.64148	A	#4 ACSR	7.30Y	121.7	0.01	3.26	3.22	2	23	7	96	0.00	0.0	9.770	0.066	17	5	3	4
PL.47877	PL.64149	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.73	1	5	1	98	0.00	0.0	9.828	0.059	5	1	1	1
PL.51799	PL.62859	A	6 A (CWC)	7.35Y	122.4	0.00	2.56	0.00	0	0	0	100	0.00	0.0	9.390	0.033	0	0	0	0
PL.47491	PL.47490	C	#4 ACSR	7.37Y	122.8	0.00	2.17	1.84	1	13	4	96	0.00	0.0	8.655	0.003	0	0	0	1
PD.7419	PL.47491	C	40QA	7.37Y	122.8	0.00	2.17	1.84	5	13	4	96	0.00	0.0	8.655	0.003	0	0	0	1
PL.47492	PD.7419	C	#4 ACSR	7.37Y	122.8	0.00	2.18	1.84	1	13	4	96	0.00	0.0	8.712	0.057	0	0	0	1
PL.48254	PL.47492	C	#4 ACSR	7.37Y	122.8	0.00	2.18	1.84	1	13	4	96	0.00	0.0	8.749	0.037	13	4	1	1
PL.62983	PL.47849	C	#2 ACSR	7.38Y	123.1	0.00	1.92	4.27	2	30	9	96	0.00	0.0	8.102	0.007	0	0	0	3
PD.9422	PL.62983	C	40QA	7.38Y	123.1	0.00	1.92	4.27	11	30	9	96	0.00	0.0	8.102	0.007	0	0	0	3
PL.62984	PD.9422	C	#2 ACSR	7.38Y	123.1	0.00	1.92	4.27	2	30	9	96	0.00	0.0	8.140	0.038	22	6	2	3
PL.47397	PL.62984	C	#2 ACSR	7.38Y	123.1	0.00	1.93	1.14	1	8	2	97	0.00	0.0	8.272	0.132	0	0	0	1
PL.47398	PL.47397	C	#2 ACSR	7.38Y	123.1	0.00	1.93	1.14	1	8	2	97	0.00	0.0	8.284	0.012	0	0	0	1
PL.47396	PL.47398	C	#2 ACSR	7.38Y	123.1	0.00	1.93	1.14	1	8	2	97	0.00	0.0	8.425	0.141	8	2	1	1
PL.57924	PL.47842	C	#1/0 ACSR	7.39Y	123.2	0.00	1.81	1.02	0	7	2	96	0.00	0.0	7.911	0.004	0	0	0	1
PD.8394	PL.57924	C	15T	7.39Y	123.2	0.00	1.81	1.02	0	7	2	96	0.00	0.0	7.911	0.004	0	0	0	1

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

Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.57925	PD.8394	C	#1/0 ACSR	7.39Y	123.2	0.00	1.81	1.02	0	7	2	96	0.00	0.0	7.954	0.043	7	2	1	1
PL.47844	PL.47842	C	#2 ACSR	7.39Y	123.2	0.00	1.81	2.60	1	18	5	96	0.00	0.0	7.910	0.003	0	0	0	1
PD.7177	PL.47844	C	40QA	7.39Y	123.2	0.00	1.81	2.60	6	18	5	96	0.00	0.0	7.910	0.003	0	0	0	1
PL.47845	PD.7177	C	#2 ACSR	7.39Y	123.2	0.00	1.82	2.60	1	18	5	96	0.00	0.0	7.988	0.078	18	5	1	1
PL.47828	PL.47750	C	#2 ACSR	7.42Y	123.6	0.00	1.40	2.30	1	16	5	95	0.00	0.0	7.252	0.001	0	0	0	2
PD.7377	PL.47828	C	40QA	7.42Y	123.6	0.00	1.40	2.30	6	16	5	95	0.00	0.0	7.252	0.001	0	0	0	2
PL.47829	PD.7377	C	#2 ACSR	7.42Y	123.6	0.00	1.40	2.30	1	16	5	95	0.00	0.0	7.271	0.019	16	5	2	2
PL.47826	PL.47750	A	#4 ACSR	7.42Y	123.6	0.00	1.40	1.41	1	10	3	96	0.00	0.0	7.252	0.001	0	0	0	1
PD.7175	PL.47826	A	40QA	7.42Y	123.6	0.00	1.40	1.41	4	10	3	96	0.00	0.0	7.252	0.001	0	0	0	1
PL.47827	PD.7175	A	#4 ACSR	7.42Y	123.6	0.00	1.41	1.41	1	10	3	96	0.00	0.0	7.318	0.066	10	3	1	1
PL.64210	PL.64270	A	#4 ACSR	7.43Y	123.8	0.00	1.18	1.60	1	11	3	96	0.00	0.0	6.963	0.044	11	3	1	1
PL.61968	PL.48341	A	#2 ACSR	7.44Y	123.9	0.00	1.06	1.86	1	13	4	96	0.00	0.0	6.786	0.018	13	4	1	1
PL.47428	PL.48340	A	#4 ACSR	7.45Y	124.1	0.00	0.91	2.17	2	16	5	95	0.00	0.0	6.627	0.042	16	5	2	2
PL.47496	PL.64262	A	#4 ACSR	7.45Y	124.2	0.00	0.76	0.00	0	0	0	100	0.00	0.0	6.413	0.001	0	0	0	0
PD.7173	PL.47496	A	40QA	7.45Y	124.2	0.00	0.76	0.00	0	0	0	100	0.00	0.0	6.413	0.001	0	0	0	0
PL.47497	PD.7173	A	#4 ACSR	7.45Y	124.2	0.00	0.76	0.00	0	0	0	100	0.00	0.0	6.446	0.033	0	0	0	0
PL.57391	PL.48336	B	#1/0 ACSR	7.47Y	124.5	0.06	0.48	58.04	25	416	123	96	0.16	0.0	6.078	0.043	1	0	1	57
PL.57392	PL.57391	B	#4 ACSR	7.47Y	124.5	0.00	0.49	57.83	44	414	122	96	0.01	0.0	6.079	0.001	0	0	0	56
PD.7557	PL.57392	B	100L	7.47Y	124.5	0.00	0.49	57.83	58	414	122	96	0.00	0.0	6.079	0.001	0	0	0	56
PL.48415	PD.7557	B	#4 ACSR	7.46Y	124.4	0.16	0.64	57.83	44	414	122	96	0.49	0.1	6.139	0.061	0	0	0	56
PL.48465	PL.48415	B	#4 ACSR	7.46Y	124.3	0.02	0.66	5.21	4	37	11	96	0.01	0.0	6.228	0.089	0	0	0	7
PL.47404	PL.48465	B	6 A (CWC)	7.46Y	124.3	0.00	0.66	0.00	0	0	0	100	0.00	0.0	6.419	0.191	0	0	0	0
PL.48466	PL.48465	B	#4 ACSR	7.46Y	124.3	0.03	0.69	5.21	4	37	11	96	0.01	0.0	6.358	0.130	2	1	1	7
PL.48468	PL.48466	B	#4 ACSR	7.46Y	124.3	0.00	0.69	0.17	0	1	0	100	0.00	0.0	6.389	0.031	0	0	0	1
PL.48469	PL.48468	B	#4 ACSR	7.46Y	124.3	0.00	0.69	0.17	0	1	0	100	0.00	0.0	6.450	0.061	1	0	1	1
PL.48467	PL.48466	B	#4 ACSR	7.46Y	124.3	0.01	0.71	4.79	4	34	10	96	0.00	0.0	6.419	0.061	0	0	0	5
PL.48470	PL.48467	B	#4 ACSR	7.46Y	124.3	0.00	0.71	4.79	4	34	10	96	0.00	0.0	6.419	0.001	2	1	1	5
PL.48471	PL.48470	B	#4 ACSR	7.46Y	124.3	0.01	0.72	4.54	3	33	9	96	0.00	0.0	6.490	0.071	10	3	2	4
PL.48472	PL.48471	B	#4 ACSR	7.46Y	124.3	0.00	0.72	3.20	2	23	7	96	0.00	0.0	6.543	0.054	23	7	2	2
PL.48473	PL.48415	B	#4 ACSR	7.46Y	124.3	0.09	0.73	52.62	40	377	111	96	0.26	0.1	6.178	0.039	6	2	1	49
PL.48474	PL.48473	B	#4 ACSR	7.45Y	124.2	0.10	0.83	51.80	40	370	109	96	0.27	0.1	6.220	0.042	0	0	0	48

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.58957	PL.48474	B	#4 ACSR	7.45Y	124.2	0.01	0.84	2.07	2	15	4	97	0.00	0.0	6.332	0.112	15	4	2	2
PL.48475	PL.48474	B	#4 ACSR	7.44Y	124.0	0.17	1.01	49.74	38	355	105	96	0.46	0.1	6.298	0.078	0	0	0	46
PL.58978	PL.48475	B	#4 ACSR	7.42Y	123.7	0.25	1.26	49.74	38	355	105	96	0.67	0.2	6.411	0.113	0	0	1	46
PL.58979	PL.58978	B	#4 ACSR	7.42Y	123.6	0.12	1.38	49.74	38	354	104	96	0.32	0.1	6.465	0.054	0	0	1	45
PL.48476	PL.58979	B	#4 ACSR	7.40Y	123.3	0.30	1.67	49.71	38	354	104	96	0.78	0.2	6.600	0.135	10	3	1	44
PL.48481	PL.48476	B	#4 ACSR	7.40Y	123.3	0.06	1.73	39.82	31	283	83	96	0.12	0.0	6.632	0.032	0	0	0	38
PL.47365	PL.48481	B	#4 ACSR	7.40Y	123.3	0.00	1.73	0.01	0	0	0	100	0.00	0.0	6.676	0.044	0	0	1	1
PL.48482	PL.48481	B	#4 ACSR	7.39Y	123.1	0.14	1.87	39.81	31	283	83	96	0.29	0.1	6.708	0.077	0	0	1	37
PL.57644	PL.48482	B	#4 ACSR	7.38Y	123.0	0.14	2.01	38.43	30	272	80	96	0.29	0.1	6.792	0.083	5	2	1	34
PL.57645	PL.57644	B	#4 ACSR	7.37Y	122.9	0.12	2.12	34.11	26	241	71	96	0.21	0.1	6.869	0.078	13	4	1	32
PL.57646	PL.57645	B	#4 ACSR	7.36Y	122.7	0.19	2.32	32.28	25	228	67	96	0.33	0.1	7.006	0.137	10	3	2	31
PL.48483	PL.57646	B	#4 ACSR	7.35Y	122.5	0.22	2.53	30.80	24	218	64	96	0.36	0.2	7.164	0.158	0	0	0	29
PL.47757	PL.48483	B	#4 ACSR	7.35Y	122.5	0.00	2.54	1.27	1	9	3	95	0.00	0.0	7.219	0.055	9	3	1	1
PL.48484	PL.48483	B	#4 ACSR	7.33Y	122.2	0.25	2.78	29.53	23	208	61	96	0.39	0.2	7.353	0.189	1	0	1	28
PL.48485	PL.48484	B	#4 ACSR	7.33Y	122.1	0.07	2.85	29.38	23	207	60	96	0.11	0.1	7.405	0.052	6	2	1	27
PL.48486	PL.48485	B	#4 ACSR	7.33Y	122.1	0.04	2.89	28.53	22	201	59	96	0.06	0.0	7.438	0.033	0	0	0	26
PL.48489	PL.48486	B	#4 ACSR	7.32Y	122.0	0.13	3.03	27.09	21	191	56	96	0.19	0.1	7.549	0.111	5	1	1	23
PL.48490	PL.48489	B	#4 ACSR	7.31Y	121.8	0.15	3.18	26.39	20	185	54	96	0.22	0.1	7.683	0.134	8	2	2	22
PL.48543	PL.48490	B	#4 ACSR	7.31Y	121.8	0.01	3.19	7.58	6	53	15	96	0.00	0.0	7.709	0.026	3	1	1	6
PL.48544	PL.48543	B	#4 ACSR	7.31Y	121.8	0.01	3.20	7.16	6	50	15	96	0.01	0.0	7.755	0.046	0	0	0	5
PL.47322	PL.48544	B	#4 ACSR	7.31Y	121.8	0.00	3.21	2.25	2	16	5	95	0.00	0.0	7.834	0.079	16	5	1	1
PL.48545	PL.48544	B	#4 ACSR	7.31Y	121.8	0.01	3.22	4.91	4	34	10	96	0.00	0.0	7.837	0.083	16	5	2	4
PL.48546	PL.48545	B	#4 ACSR	7.31Y	121.8	0.01	3.22	2.61	2	18	5	96	0.00	0.0	7.908	0.071	6	2	1	2
PL.48547	PL.48546	B	#4 ACSR	7.31Y	121.8	0.01	3.23	1.70	1	12	3	97	0.00	0.0	7.987	0.079	0	0	0	1
PL.46924	PL.48547	B	#2 ACSR	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	8.079	0.092	0	0	0	0
PL.48548	PL.48547	B	#4 ACSR	7.31Y	121.8	0.00	3.23	1.70	1	12	3	97	0.00	0.0	8.062	0.075	12	3	1	1
PL.46736	PL.48547	B	#4 ACSR	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	8.056	0.069	0	0	0	0
PL.46799	PL.48490	B	#4 ACSR	7.30Y	121.7	0.07	3.25	17.71	14	124	36	96	0.07	0.1	7.782	0.099	15	4	1	14
PL.46800	PL.46799	B	#4 ACSR	7.29Y	121.5	0.20	3.45	15.53	12	109	32	96	0.15	0.1	8.093	0.311	20	6	2	13
PL.47640	PL.46800	B	#4 ACSR	7.29Y	121.5	0.00	3.45	0.58	0	4	1	97	0.00	0.0	8.158	0.065	4	1	1	1
PL.46801	PL.46800	B	#4 ACSR	7.29Y	121.5	0.01	3.46	12.15	9	85	25	96	0.01	0.0	8.112	0.020	0	0	0	10

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62986	PL.46801	B	#4 ACSR	7.29Y	121.5	0.00	3.47	12.15	9	85	25	96	0.00	0.0	8.120	0.008	0	0	0	10
PL.62987	PL.62986	B	#4 ACSR	7.29Y	121.5	0.04	3.51	12.15	9	85	25	96	0.03	0.0	8.197	0.077	0	0	0	10
PL.57700	PL.62987	B	#4 ACSR	7.29Y	121.5	0.00	3.51	1.24	1	9	3	95	0.00	0.0	8.255	0.058	9	3	3	3
PL.46948	PL.62987	B	#4 ACSR	7.29Y	121.4	0.06	3.56	9.74	7	68	20	96	0.03	0.0	8.329	0.132	0	0	0	6
PL.47705	PL.46948	B	#2 ACSR	7.29Y	121.4	0.01	3.58	4.00	2	28	8	96	0.00	0.0	8.440	0.110	0	0	0	3
PL.47362	PL.47705	B	#2 ACSR	7.29Y	121.4	0.00	3.58	0.88	1	6	2	95	0.00	0.0	8.471	0.031	6	2	1	1
PL.48549	PL.47705	B	#2 ACSR	7.28Y	121.4	0.01	3.59	3.12	2	22	6	96	0.00	0.0	8.621	0.182	22	6	2	2
PL.46949	PL.46948	B	#4 ACSR	7.29Y	121.4	0.01	3.57	5.74	4	40	12	96	0.00	0.0	8.364	0.035	12	3	1	3
PL.47704	PL.46949	B	#4 ACSR	7.28Y	121.4	0.02	3.60	4.09	3	29	8	96	0.00	0.0	8.622	0.258	29	8	2	2
PL.47653	PL.62987	B	#1/0 ACSR	7.29Y	121.5	0.00	3.51	1.18	1	8	2	97	0.00	0.0	8.224	0.027	8	2	1	1
PL.62988	PL.62986	B	#2 ACSR	7.29Y	121.5	0.00	3.47	0.00	0	0	0	100	0.00	0.0	8.230	0.109	0	0	0	0
PL.62989	PL.62988	B	#2 ACSR	7.29Y	121.5	0.00	3.47	0.00	0	0	0	100	0.00	0.0	8.350	0.120	0	0	0	0
PL.48487	PL.48486	B	#4 ACSR	7.33Y	122.1	0.01	2.90	1.45	1	10	3	96	0.00	0.0	7.539	0.101	0	0	1	3
PL.48488	PL.48487	B	#4 ACSR	7.33Y	122.1	0.00	2.90	1.43	1	10	3	96	0.00	0.0	7.604	0.065	2	1	1	2
PL.48491	PL.48488	B	#4 ACSR	7.33Y	122.1	0.01	2.91	1.14	1	8	2	97	0.00	0.0	7.801	0.197	0	0	0	1
PL.47363	PL.48491	B	#2 ACSR	7.33Y	122.1	0.00	2.91	1.14	1	8	2	97	0.00	0.0	7.895	0.094	8	2	1	1
PL.48492	PL.48491	B	#4 ACSR	7.33Y	122.1	0.00	2.91	0.00	0	0	0	100	0.00	0.0	7.875	0.074	0	0	0	0
PL.48542	PL.48492	B	#4 ACSR	7.33Y	122.1	0.00	2.91	0.00	0	0	0	100	0.00	0.0	8.055	0.180	0	0	0	0
PL.57647	PL.57644	B	#1/0 ACSR	7.38Y	123.0	0.00	2.01	3.55	2	25	7	96	0.00	0.0	6.822	0.031	0	0	0	1
PL.61388	PL.57647	B	#1/0 ACSR	7.38Y	123.0	0.00	2.01	3.55	2	25	7	96	0.00	0.0	6.860	0.037	25	7	1	1
PL.47321	PL.48482	B	#4 ACSR	7.39Y	123.1	0.00	1.87	1.36	1	10	3	96	0.00	0.0	6.748	0.039	10	3	2	2
PL.48477	PL.48476	B	#4 ACSR	7.40Y	123.3	0.00	1.68	8.55	7	61	18	96	0.00	0.0	6.612	0.011	0	0	0	5
PL.48478	PL.48477	B	#4 ACSR	7.40Y	123.3	0.02	1.70	8.55	7	61	18	96	0.01	0.0	6.659	0.048	7	2	1	5
PL.48479	PL.48478	B	#4 ACSR	7.40Y	123.3	0.01	1.71	7.53	6	53	16	96	0.00	0.0	6.729	0.070	43	12	3	4
PL.48480	PL.48479	B	#4 ACSR	7.40Y	123.3	0.00	1.71	1.51	1	11	3	96	0.00	0.0	6.812	0.084	11	3	1	1
PL.47418	PL.48475	B	#4 ACSR	7.44Y	124.0	0.00	1.01	0.00	0	0	0	100	0.00	0.0	6.405	0.107	0	0	0	0
PL.57389	PL.57390	ABC	#3/0 ACSR	7.16Y	119.3	0.01	5.68	19.27	6	397	118	96	0.02	0.0	5.285	0.029	0	0	0	58
PL.47162	PL.57389	ABC	#3/0 ACSR	7.16Y	119.3	0.00	5.68	3.07	1	63	18	96	0.00	0.0	5.318	0.033	1	0	1	9
PL.47213	PL.47162	ABC	#3/0 ACSR	7.16Y	119.3	0.01	5.69	3.01	1	62	18	96	0.00	0.0	5.471	0.153	11	3	1	8
PL.57848	PL.47213	ABC	#3/0 ACSR	7.16Y	119.3	0.00	5.69	2.46	1	51	15	96	0.00	0.0	5.547	0.077	18	5	3	7
PL.57849	PL.57848	ABC	#3/0 ACSR	7.16Y	119.3	0.00	5.69	1.59	1	33	10	96	0.00	0.0	5.771	0.224	0	0	0	4

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.48137	PL.57849	ABC	#3/0 ACSR	7.16Y	119.3	0.00	5.69	0.84	0	17	5	96	0.00	0.0	5.876	0.105	17	5	1	2
PL.57720	PL.48137	ABC	#3/0 ACSR	7.16Y	119.3	0.00	5.69	0.01	0	0	0	100	0.00	0.0	5.933	0.057	0	0	1	1
PL.62524	PL.57720	ABC	#3/0 ACSR	7.16Y	119.3	0.00	5.69	0.00	0	0	0	100	0.00	0.0	5.985	0.051	0	0	0	0
PD.9379-B	PL.62524	ABC	Open	7.16Y	119.3	0.00	5.69	0.00	0	0	0	100	0.00	0.0	5.985	0.051	0	0	0	0
PL.57659	PL.57849	A	#1/0 ACSR	7.16Y	119.3	0.00	5.70	2.25	1	15	5	95	0.00	0.0	5.813	0.041	0	0	0	2
PL.57660	PL.57659	A	#1/0 ACSR	7.16Y	119.3	0.00	5.70	2.25	1	15	5	95	0.00	0.0	5.836	0.023	15	5	2	2
PL.47303	PL.57389	C	#1/0 ACSR	7.16Y	119.3	0.00	5.68	48.61	21	333	100	96	0.01	0.0	5.289	0.003	0	0	0	49
PD.7559	PL.47303	C	100L	7.16Y	119.3	0.00	5.68	48.61	49	333	100	96	0.00	0.0	5.289	0.003	0	0	0	49
PL.57990	PD.7559	C	#1/0 ACSR	7.14Y	119.0	0.34	6.03	48.61	21	333	100	96	0.76	0.2	5.587	0.299	0	0	0	49
PL.57992	PL.57990	C	1/0 AL URD	7.14Y	119.0	0.00	6.03	0.96	1	7	2	96	0.00	0.0	5.648	0.061	7	2	1	1
PL.57991	PL.57990	C	#1/0 ACSR	7.13Y	118.8	0.13	6.16	47.65	21	326	97	96	0.28	0.1	5.704	0.116	3	1	1	48
REG39	PL.57991	C	76.2 KVA	7.51Y	125.1	-6.25	-0.10	47.27	47	323	96	96	percent Boost= 0.00 Tap= 0.0							47
PL.47415	REG39	C	#1/0 ACSR	7.50Y	125.0	0.11	0.01	44.91	20	323	96	96	0.23	0.1	5.809	0.105	0	0	0	47
PL.47416	PL.47415	C	#1/0 ACSR	7.50Y	124.9	0.05	0.07	44.91	20	323	95	96	0.11	0.0	5.861	0.052	0	0	0	47
PL.48333	PL.47416	C	#1/0 ACSR	7.49Y	124.9	0.04	0.10	39.58	17	285	84	96	0.07	0.0	5.901	0.040	0	0	0	43
PL.58667	PL.48333	C	#1/0 ACSR	7.49Y	124.8	0.15	0.25	39.58	17	284	84	96	0.27	0.1	6.057	0.156	0	0	0	43
PL.58666	PL.58667	C	#1/0 ACSR	7.49Y	124.8	0.00	0.25	1.84	1	13	4	96	0.00	0.0	6.113	0.056	13	4	1	1
PL.58668	PL.58667	C	#1/0 ACSR	7.48Y	124.6	0.16	0.40	37.74	16	271	80	96	0.27	0.1	6.234	0.177	0	0	0	42
PL.47913	PL.58668	C	#1/0 ACSR	7.47Y	124.6	0.04	0.44	36.06	16	259	76	96	0.07	0.0	6.281	0.047	2	1	1	41
PL.47914	PL.47913	C	#1/0 ACSR	7.47Y	124.5	0.05	0.49	35.77	16	256	75	96	0.07	0.0	6.338	0.057	17	5	1	40
PL.47915	PL.47914	C	#1/0 ACSR	7.46Y	124.4	0.15	0.64	33.37	15	239	70	96	0.24	0.1	6.534	0.195	0	0	1	39
PL.64592	PL.47915	C	#1/0 ACSR	7.46Y	124.3	0.05	0.69	33.37	15	239	70	96	0.08	0.0	6.600	0.067	10	3	1	38
PL.64593	PL.64592	C	#1/0 ACSR	7.46Y	124.3	0.00	0.69	31.93	14	229	67	96	0.00	0.0	6.600	0.000	0	0	0	37
PL.64591	PL.64593	C	#1/0 ACSR	7.46Y	124.3	0.04	0.74	31.93	14	229	67	96	0.06	0.0	6.655	0.055	0	0	0	37
PL.57787	PL.64591	C	#1/0 ACSR	7.45Y	124.2	0.03	0.76	26.66	12	191	56	96	0.03	0.0	6.702	0.046	5	1	1	31
PL.57788	PL.57787	C	#1/0 ACSR	7.45Y	124.2	0.02	0.78	25.96	11	186	54	96	0.02	0.0	6.736	0.034	0	0	0	30
PL.47176	PL.57788	C	#4 ACSR	7.45Y	124.2	0.00	0.78	0.53	0	4	1	97	0.00	0.0	6.756	0.021	4	1	3	3
PL.52293	PL.57788	C	#1/0 ACSR	7.45Y	124.2	0.05	0.83	25.43	11	182	53	96	0.05	0.0	6.817	0.081	15	4	1	27
PL.52129	PL.52293	C	#1/0 ACSR	7.45Y	124.1	0.08	0.92	21.39	9	153	45	96	0.08	0.1	6.985	0.169	0	0	0	25
PL.52131	PL.52129	C	#1/0 ACSR	7.45Y	124.1	0.00	0.92	4.61	2	33	10	96	0.00	0.0	6.986	0.001	0	0	0	7
PD.8017	PL.52131	C	40QA	7.45Y	124.1	0.00	0.92	4.61	12	33	10	96	0.00	0.0	6.986	0.001	0	0	0	7

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.52133	PD.8017	C	#1/0 ACSR	7.44Y	124.1	0.00	0.92	4.61	2	33	10	96	0.00	0.0	7.019	0.033	0	0	0	7
PL.64594	PL.52133	C	#1/0 ACSR	7.44Y	124.1	0.02	0.93	4.61	2	33	10	96	0.00	0.0	7.159	0.139	0	0	0	7
PL.64595	PL.64594	C	#2 ACSR	7.44Y	124.1	0.00	0.94	1.73	1	12	4	95	0.00	0.0	7.240	0.081	12	4	1	1
PL.64596	PL.64594	C	#1/0 ACSR	7.44Y	124.1	0.01	0.95	2.88	1	21	6	96	0.00	0.0	7.398	0.240	3	1	2	6
PL.52136	PL.64596	C	#1/0 ACSR	7.44Y	124.0	0.00	0.95	2.46	1	18	5	96	0.00	0.0	7.475	0.077	3	1	1	4
PL.52134	PL.52136	C	6 A (CWC)	7.44Y	124.0	0.00	0.95	0.01	0	0	0	100	0.00	0.0	7.638	0.163	0	0	1	1
PL.52137	PL.52136	C	#1/0 ACSR	7.44Y	124.0	0.01	0.97	1.99	1	14	4	96	0.00	0.0	7.738	0.263	0	0	0	2
PL.52135	PL.52137	C	6 A (CWC)	7.44Y	124.0	0.00	0.97	1.20	1	9	2	98	0.00	0.0	7.858	0.120	9	2	1	1
PL.52138	PL.52137	C	#1/0 ACSR	7.44Y	124.0	0.00	0.97	0.79	0	6	2	95	0.00	0.0	7.772	0.034	6	2	1	1
PL.52130	PL.52129	C	6 A (CWC)	7.45Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	7.324	0.339	0	0	0	0
PL.48644	PL.52130	C	6 A (CWC)	7.45Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	7.498	0.173	0	0	0	0
PL.48645	PL.48644	C	6 A (CWC)	7.45Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	7.727	0.229	0	0	0	0
PL.47701	PL.48644	C	6 A (CWC)	7.45Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	7.572	0.075	0	0	0	0
PL.52132	PL.52129	C	6 A (CWC)	7.45Y	124.1	0.00	0.92	1.38	1	10	3	96	0.00	0.0	7.012	0.027	10	3	1	1
PL.55965	PL.52129	C	#1/0 ACSR	7.44Y	124.0	0.06	0.97	15.39	7	110	32	96	0.04	0.0	7.152	0.167	6	2	2	17
PL.55966	PL.55965	C	#1/0 ACSR	7.44Y	124.0	0.06	1.03	14.57	6	104	30	96	0.04	0.0	7.331	0.179	0	0	0	15
PL.47504	PL.55966	C	#1/0 ACSR	7.44Y	124.0	0.00	1.04	0.85	0	6	2	95	0.00	0.0	7.356	0.025	0	0	1	2
PL.47505	PL.47504	C	#1/0 ACSR	7.44Y	124.0	0.00	1.04	0.85	0	6	2	95	0.00	0.0	7.423	0.066	6	2	1	1
PL.47500	PL.55966	C	#1/0 ACSR	7.44Y	124.0	0.01	1.05	10.65	5	76	22	96	0.01	0.0	7.388	0.057	0	0	0	10
PL.47506	PL.47500	C	6 A (CWC)	7.44Y	123.9	0.00	1.05	1.99	1	14	4	96	0.00	0.0	7.473	0.085	14	4	1	1
PL.47507	PL.47506	C	6 A (CWC)	7.44Y	123.9	0.00	1.05	0.00	0	0	0	100	0.00	0.0	7.596	0.123	0	0	0	0
PL.47501	PL.47500	C	#1/0 ACSR	7.44Y	123.9	0.01	1.06	8.66	4	62	18	96	0.01	0.0	7.450	0.063	0	0	0	9
PL.47519	PL.47501	C	#1/0 ACSR	7.44Y	123.9	0.00	1.06	0.72	0	5	1	98	0.00	0.0	7.475	0.024	5	1	1	1
PL.47508	PL.47501	C	#1/0 ACSR	7.44Y	123.9	0.02	1.08	7.94	3	57	17	96	0.01	0.0	7.553	0.102	0	0	0	8
PL.47509	PL.47508	C	#1/0 ACSR	7.43Y	123.9	0.04	1.12	7.49	3	53	16	96	0.01	0.0	7.763	0.210	0	0	0	7
PL.62585	PL.47509	C	#1/0 ACSR	7.43Y	123.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	7.856	0.093	0	0	0	0
PD.9393-A	PL.62585	C	Open	7.43Y	123.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	7.856	0.093	0	0	0	0
PL.47510	PL.47509	C	6 A (CWC)	7.43Y	123.9	0.02	1.14	6.87	5	49	14	96	0.01	0.0	7.854	0.091	19	5	1	6
PL.48636	PL.47510	C	6 A (CWC)	7.43Y	123.8	0.02	1.17	4.25	3	30	9	96	0.01	0.0	7.980	0.125	0	0	0	5
PL.48637	PL.48636	C	6 A (CWC)	7.43Y	123.8	0.02	1.18	4.25	3	30	9	96	0.00	0.0	8.057	0.077	0	0	0	5
PL.48638	PL.48637	C	6 A (CWC)	7.43Y	123.8	0.00	1.18	1.32	1	9	3	95	0.00	0.0	8.098	0.042	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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.48639	PL.48638	C	6 A (CWC)	7.43Y	123.8	0.00	1.18	1.32	1	9	3	95	0.00	0.0	8.099	0.001	9	3	1	1
PL.48640	PL.48637	C	6 A (CWC)	7.43Y	123.8	0.02	1.20	2.93	2	21	6	96	0.00	0.0	8.271	0.214	19	6	2	4
PL.48641	PL.48640	C	6 A (CWC)	7.43Y	123.8	0.00	1.20	0.00	0	0	0	100	0.00	0.0	8.507	0.236	0	0	0	0
PL.48642	PL.48640	C	6 A (CWC)	7.43Y	123.8	0.00	1.20	0.28	0	2	1	89	0.00	0.0	8.394	0.123	1	0	1	2
PL.48643	PL.48642	C	6 A (CWC)	7.43Y	123.8	0.00	1.20	0.14	0	1	0	100	0.00	0.0	8.607	0.214	1	0	1	1
PL.47708	PL.47509	C	6 A (CWC)	7.43Y	123.9	0.00	1.12	0.61	0	4	1	97	0.00	0.0	7.851	0.089	4	1	1	1
PL.47695	PL.47508	C	#1/0 ACSR	7.44Y	123.9	0.00	1.08	0.46	0	3	1	95	0.00	0.0	7.583	0.030	3	1	1	1
PL.47502	PL.55966	C	#2 ACSR	7.44Y	124.0	0.00	1.04	3.07	2	22	6	96	0.00	0.0	7.382	0.051	8	2	2	3
PL.47503	PL.47502	C	#2 ACSR	7.44Y	124.0	0.00	1.04	2.00	1	14	4	96	0.00	0.0	7.424	0.042	14	4	1	1
PL.52292	PL.52293	C	#4 ACSR	7.45Y	124.2	0.00	0.83	1.98	2	14	4	96	0.00	0.0	6.896	0.079	14	4	1	1
PL.57786	PL.64591	C	#2 ACSR	7.45Y	124.2	0.02	0.76	5.27	3	38	11	96	0.01	0.0	6.784	0.128	0	0	0	6
PL.47916	PL.57786	C	#2 ACSR	7.45Y	124.2	0.02	0.78	4.35	2	31	9	96	0.01	0.0	6.971	0.187	4	1	1	5
PL.47917	PL.47916	C	#2 ACSR	7.45Y	124.2	0.00	0.78	3.78	2	27	8	96	0.00	0.0	7.028	0.057	27	8	4	4
PL.47448	PL.57786	C	#2 ACSR	7.45Y	124.2	0.00	0.76	0.92	1	7	2	96	0.00	0.0	6.904	0.120	7	2	1	1
PL.58669	PL.58668	C	#1/0 ACSR	7.48Y	124.6	0.00	0.41	1.68	1	12	4	95	0.00	0.0	6.253	0.019	12	4	1	1
PL.48334	PL.47416	C	#2 ACSR	7.50Y	124.9	0.01	0.07	3.83	2	28	8	96	0.00	0.0	5.933	0.072	13	4	1	3
PL.48335	PL.48334	C	#2 ACSR	7.50Y	124.9	0.00	0.07	1.96	1	14	4	96	0.00	0.0	6.003	0.070	14	4	2	2
PL.47707	PL.47416	C	#4 ACSR	7.50Y	124.9	0.01	0.07	1.50	1	11	3	96	0.00	0.0	6.024	0.163	11	3	1	1
PL.57388	PL.57390	A	6 A (CWC)	7.16Y	119.3	0.00	5.67	1.87	1	13	4	96	0.00	0.0	5.257	0.001	0	0	0	1
PD.7174	PL.57388	A	25QA	7.16Y	119.3	0.00	5.67	1.87	7	13	4	96	0.00	0.0	5.257	0.001	0	0	0	1
PL.47304	PD.7174	A	6 A (CWC)	7.16Y	119.3	0.00	5.68	1.87	1	13	4	96	0.00	0.0	5.369	0.112	13	4	1	1
PL.48551	PL.48554	A	#2 ACSR	7.17Y	119.5	0.00	5.53	1.74	1	12	3	97	0.00	0.0	5.060	0.001	0	0	0	1
PD.7538	PL.48551	A	40QA	7.17Y	119.5	0.00	5.53	1.74	4	12	3	97	0.00	0.0	5.060	0.001	0	0	0	1
PL.48552	PD.7538	A	#2 ACSR	7.17Y	119.5	0.00	5.53	1.74	1	12	3	97	0.00	0.0	5.146	0.086	12	3	1	1
PL.48559	PL.48556	A	#2 ACSR	7.18Y	119.6	0.00	5.39	1.37	1	9	3	95	0.00	0.0	4.868	0.001	0	0	0	1
PD.7421	PL.48559	A	40QA	7.18Y	119.6	0.00	5.39	1.37	3	9	3	95	0.00	0.0	4.868	0.001	0	0	0	1
PL.48560	PD.7421	A	#2 ACSR	7.18Y	119.6	0.00	5.39	1.37	1	9	3	95	0.00	0.0	4.893	0.025	9	3	1	1
PL.48557	PL.48556	A	#2 ACSR	7.18Y	119.6	0.00	5.39	0.03	0	0	0	100	0.00	0.0	4.868	0.001	0	0	0	1
PD.7372	PL.48557	A	40QA	7.18Y	119.6	0.00	5.39	0.03	0	0	0	100	0.00	0.0	4.868	0.001	0	0	0	1
PL.48558	PD.7372	A	#2 ACSR	7.18Y	119.6	0.00	5.39	0.03	0	0	0	100	0.00	0.0	4.918	0.049	0	0	1	1
PL.63676	PL.63677	C	#4 ACSR	7.19Y	119.8	0.00	5.20	0.91	1	6	2	95	0.00	0.0	4.623	0.001	0	0	0	3

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.7518	PL.63676	C	40QA	7.19Y	119.8	0.00	5.20	0.91	2	6	2	95	0.00	0.0	4.623	0.001	0	0	0	3
PL.48047	PD.7518	C	#4 ACSR	7.19Y	119.8	0.00	5.20	0.91	1	6	2	95	0.00	0.0	4.635	0.013	6	2	3	3
PL.64008	PL.63677	B	#4 ACSR	7.19Y	119.8	0.00	5.20	4.96	4	34	10	96	0.00	0.0	4.623	0.001	0	0	0	5
PD.9510	PL.64008	B	40QA	7.19Y	119.8	0.00	5.20	4.96	12	34	10	96	0.00	0.0	4.623	0.001	0	0	0	5
PL.64214	PD.9510	B	#4 ACSR	7.19Y	119.8	0.01	5.21	4.96	4	34	10	96	0.00	0.0	4.661	0.039	11	3	3	5
PL.64215	PL.64214	B	#4 ACSR	7.19Y	119.8	0.00	5.21	3.41	3	24	7	96	0.00	0.0	4.714	0.053	24	7	2	2
PL.48051	PL.48053	C	#2 ACSR	7.20Y	120.0	0.00	4.97	3.20	2	22	6	96	0.00	0.0	4.320	0.004	0	0	0	2
PD.7422	PL.48051	C	40QA	7.20Y	120.0	0.00	4.97	3.20	8	22	6	96	0.00	0.0	4.320	0.004	0	0	0	2
PL.48052	PD.7422	C	#2 ACSR	7.20Y	120.0	0.00	4.97	3.20	2	22	6	96	0.00	0.0	4.368	0.048	22	6	2	2
PL.47284	PL.46734	A	6 A (CWC)	7.22Y	120.3	0.00	4.65	0.00	0	0	0	100	0.00	0.0	3.945	0.026	0	0	0	0
CP.69	PL.46742	ABC	Cap (300)	7.23Y	120.4	0.00	4.56	0.00	0	0	0	100	0.00	0.0	3.803	0.026	0	0	0	0
PL.48168	PL.48058	C	6 A (CWC)	7.25Y	120.9	0.00	4.09	15.56	11	108	32	96	0.00	0.0	3.221	0.001	0	0	0	17
PD.7424	PL.48168	C	40QA	7.25Y	120.9	0.00	4.09	15.56	39	108	32	96	0.00	0.0	3.221	0.001	0	0	0	17
PL.48179	PD.7424	C	6 A (CWC)	7.25Y	120.9	0.03	4.12	15.56	11	108	32	96	0.03	0.0	3.266	0.045	5	2	1	17
PL.48180	PL.48179	C	6 A (CWC)	7.25Y	120.8	0.03	4.16	14.78	11	103	30	96	0.02	0.0	3.312	0.046	1	0	1	16
PL.46879	PL.48180	C	6 A (CWC)	7.24Y	120.7	0.14	4.29	14.65	10	102	30	96	0.11	0.1	3.517	0.205	0	0	0	15
PL.46880	PL.46879	C	6 A (CWC)	7.24Y	120.6	0.12	4.42	13.81	10	96	28	96	0.09	0.1	3.718	0.201	10	3	2	13
PL.46881	PL.46880	C	6 A (CWC)	7.23Y	120.6	0.03	4.44	12.42	9	86	25	96	0.02	0.0	3.764	0.046	0	0	0	11
PL.47159	PL.46881	C	#4 ACSR	7.23Y	120.6	0.00	4.44	0.24	0	2	0	100	0.00	0.0	3.781	0.017	2	0	1	1
PL.46882	PL.46881	C	#4 ACSR	7.23Y	120.5	0.04	4.49	12.18	9	85	25	96	0.03	0.0	3.855	0.091	15	4	2	10
PL.47732	PL.46882	C	#4 ACSR	7.23Y	120.5	0.03	4.52	9.96	8	69	20	96	0.02	0.0	3.937	0.083	14	4	1	8
PL.47733	PL.47732	C	#4 ACSR	7.23Y	120.5	0.02	4.54	7.95	6	55	16	96	0.01	0.0	3.989	0.051	15	4	2	7
PL.47722	PL.47733	C	#1/0 ACSR	7.23Y	120.5	0.00	4.54	1.09	0	8	2	97	0.00	0.0	4.040	0.051	8	2	1	1
PL.47734	PL.47733	C	#4 ACSR	7.23Y	120.4	0.02	4.56	4.75	4	33	10	96	0.00	0.0	4.101	0.112	9	3	1	4
PL.47735	PL.47734	C	#4 ACSR	7.23Y	120.4	0.00	4.56	3.44	3	24	7	96	0.00	0.0	4.134	0.033	21	6	2	3
PL.47736	PL.47735	C	#4 ACSR	7.23Y	120.4	0.00	4.56	0.42	0	3	1	95	0.00	0.0	4.203	0.069	3	1	1	1
PL.47652	PL.46881	C	6 A (CWC)	7.23Y	120.6	0.00	4.44	0.00	0	0	0	100	0.00	0.0	3.935	0.171	0	0	0	0
PL.47549	PL.46879	C	6 A (CWC)	7.24Y	120.7	0.00	4.29	0.83	1	6	2	95	0.00	0.0	3.570	0.053	6	2	2	2
PL.47678	PL.47680	A	6 A (CWC)	7.27Y	121.1	0.00	3.88	21.87	16	153	44	96	0.00	0.0	2.977	0.001	0	0	0	25
PD.7425	PL.47678	A	40QA	7.27Y	121.1	0.00	3.88	21.87	55	153	44	96	0.00	0.0	2.977	0.001	0	0	0	25
PL.47679	PD.7425	A	6 A (CWC)	7.26Y	121.0	0.09	3.98	21.87	16	153	44	96	0.11	0.1	3.071	0.094	0	0	0	25

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.47737	PL.47679	A	6 A (CWC)	7.26Y	120.9	0.08	4.05	6.48	5	45	13	96	0.02	0.1	3.345	0.274	6	2	2	7
PL.63445	PL.47737	A	6 A (CWC)	7.26Y	120.9	0.01	4.06	5.61	4	39	11	96	0.00	0.0	3.385	0.040	9	3	2	5
PL.63446	PL.63445	A	6 A (CWC)	7.26Y	120.9	0.02	4.08	4.35	3	30	9	96	0.00	0.0	3.478	0.094	0	0	0	3
PL.47374	PL.63446	A	6 A (CWC)	7.26Y	120.9	0.00	4.08	0.00	0	0	0	100	0.00	0.0	3.537	0.058	0	0	0	0
PL.47771	PL.63446	A	6 A (CWC)	7.25Y	120.9	0.01	4.10	4.35	3	30	9	96	0.00	0.0	3.553	0.075	0	0	0	3
PL.47772	PL.47771	A	6 A (CWC)	7.25Y	120.9	0.00	4.10	0.00	0	0	0	100	0.00	0.0	3.617	0.064	0	0	0	0
PL.57527	PL.47771	A	6 A (CWC)	7.25Y	120.9	0.01	4.10	4.35	3	30	9	96	0.00	0.0	3.593	0.040	13	4	1	3
PL.57528	PL.57527	A	#1/0 ACSR	7.25Y	120.9	0.00	4.10	2.48	1	17	5	96	0.00	0.0	3.596	0.003	0	0	0	2
PD.8375	PL.57528	A	20QA	7.25Y	120.9	0.00	4.10	2.48	12	17	5	96	0.00	0.0	3.596	0.003	0	0	0	2
PL.59009	PD.8375	A	#1/0 ACSR	7.25Y	120.9	0.00	4.10	2.48	1	17	5	96	0.00	0.0	3.648	0.052	7	2	1	2
PL.60037	PL.59009	A	#1/0 ACSR	7.25Y	120.9	0.00	4.11	1.46	1	10	3	96	0.00	0.0	3.761	0.113	10	3	1	1
PL.47228	PL.47679	A	6 A (CWC)	7.26Y	121.0	0.01	3.99	15.39	11	107	31	96	0.01	0.0	3.086	0.015	6	2	1	18
PL.47229	PL.47228	A	6 A (CWC)	7.26Y	121.0	0.00	3.99	0.95	1	7	2	96	0.00	0.0	3.138	0.051	7	2	2	2
PL.47230	PL.47229	A	6 A (CWC)	7.26Y	121.0	0.00	3.99	0.00	0	0	0	100	0.00	0.0	3.191	0.054	0	0	0	0
PL.48060	PL.47228	A	6 A (CWC)	7.26Y	121.0	0.02	4.00	13.62	10	95	28	96	0.01	0.0	3.115	0.028	6	2	2	15
PL.48061	PL.48060	A	6 A (CWC)	7.26Y	121.0	0.03	4.03	12.80	9	89	26	96	0.02	0.0	3.158	0.043	0	0	0	13
PL.47687	PL.48061	A	6 A (CWC)	7.26Y	120.9	0.02	4.05	6.92	5	48	14	96	0.01	0.0	3.228	0.070	0	0	0	7
PL.46809	PL.47687	A	6 A (CWC)	7.26Y	120.9	0.00	4.05	1.65	1	12	3	97	0.00	0.0	3.256	0.028	12	3	3	3
PL.47773	PL.47687	A	6 A (CWC)	7.26Y	120.9	0.01	4.06	5.27	4	37	11	96	0.00	0.0	3.271	0.043	23	7	2	4
PL.48181	PL.47773	A	6 A (CWC)	7.26Y	120.9	0.00	4.06	1.91	1	13	4	96	0.00	0.0	3.309	0.038	0	0	0	2
PL.48182	PL.48181	A	6 A (CWC)	7.26Y	120.9	0.00	4.06	1.91	1	13	4	96	0.00	0.0	3.357	0.048	13	4	2	2
PL.57596	PL.48061	A	6 A (CWC)	7.26Y	121.0	0.01	4.04	5.88	4	41	12	96	0.00	0.0	3.193	0.036	5	1	2	6
PL.57597	PL.57596	A	6 A (CWC)	7.26Y	121.0	0.00	4.04	5.19	4	36	11	96	0.00	0.0	3.230	0.037	36	11	4	4
PL.63679	PL.64191	C	#2 ACSR	7.28Y	121.3	0.00	3.72	2.77	2	19	6	95	0.00	0.0	2.798	0.001	0	0	0	2
PD.7426	PL.63679	C	40QA	7.28Y	121.3	0.00	3.72	2.77	7	19	6	95	0.00	0.0	2.798	0.001	0	0	0	2
PL.47688	PD.7426	C	#2 ACSR	7.28Y	121.3	0.00	3.72	2.77	2	19	6	95	0.00	0.0	2.819	0.021	13	4	1	2
PL.48183	PL.47688	C	#2 ACSR	7.28Y	121.3	0.00	3.72	0.91	1	6	2	95	0.00	0.0	2.859	0.040	6	2	1	1
PL.64761	PL.47463	B	#1/0 ACSR	7.30Y	121.6	0.00	3.41	0.91	0	6	2	95	0.00	0.0	2.526	0.024	6	2	2	2
PL.62874	PL.62872	A	6 A (CWC)	7.34Y	122.4	0.00	2.61	10.46	7	74	21	96	0.00	0.0	1.847	0.003	0	0	0	12
PD.9440	PL.62874	A	50T	7.34Y	122.4	0.00	2.61	10.46	0	74	21	96	0.00	0.0	1.847	0.003	0	0	0	12
PL.62875	PD.9440	A	6 A (CWC)	7.34Y	122.4	0.04	2.65	10.46	7	74	21	96	0.02	0.0	1.920	0.073	0	0	0	12

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62569	PL.62875	A	6 A (CWC)	7.34Y	122.3	0.02	2.66	10.46	7	74	21	96	0.01	0.0	1.959	0.039	27	8	2	12
PL.37860	PL.62569	A	6 A (CWC)	7.34Y	122.3	0.00	2.66	0.79	1	6	2	95	0.00	0.0	1.998	0.040	6	2	3	3
PL.38695	PL.62569	A	6 A (CWC)	7.34Y	122.3	0.01	2.67	5.85	4	41	12	96	0.00	0.0	1.986	0.027	9	3	1	7
PL.37588	PL.38695	A	6 A (CWC)	7.34Y	122.3	0.00	2.67	1.65	1	12	3	97	0.00	0.0	2.017	0.031	12	3	2	2
PL.37589	PL.38695	A	6 A (CWC)	7.34Y	122.3	0.00	2.67	2.93	2	21	6	96	0.00	0.0	2.014	0.029	16	5	3	4
PL.37590	PL.37589	A	6 A (CWC)	7.34Y	122.3	0.00	2.67	0.63	0	4	1	97	0.00	0.0	2.056	0.042	0	0	0	1
PL.62567	PL.37590	A	#1/0 ACSR	7.34Y	122.3	0.00	2.67	0.63	0	4	1	97	0.00	0.0	2.122	0.066	4	1	1	1
PL.62568	PL.62875	A	6 A (CWC)	7.34Y	122.4	0.00	2.65	0.00	0	0	0	100	0.00	0.0	1.949	0.029	0	0	0	0
PL.63943	PL.62652	A	#4 ACSR	7.39Y	123.1	0.00	1.86	3.51	3	25	7	96	0.00	0.0	1.282	0.004	0	0	0	2
PD.9524	PL.63943	A	50T	7.39Y	123.1	0.00	1.86	3.51	0	25	7	96	0.00	0.0	1.282	0.004	0	0	0	2
PL.63944	PD.9524	A	#4 ACSR	7.39Y	123.1	0.01	1.87	3.51	3	25	7	96	0.00	0.0	1.349	0.067	0	0	0	2
PL.62654	PL.63944	A	#4 ACSR	7.39Y	123.1	0.00	1.87	3.51	3	25	7	96	0.00	0.0	1.349	0.000	25	7	2	2
PL.62589	PL.62648	A	#4 ACSR	7.40Y	123.3	0.00	1.68	1.07	1	8	2	97	0.00	0.0	1.149	0.001	0	0	0	1
PD.9394	PL.62589	A	50T	7.40Y	123.3	0.00	1.68	1.07	0	8	2	97	0.00	0.0	1.149	0.001	0	0	0	1
PL.62588	PD.9394	A	#4 ACSR	7.40Y	123.3	0.00	1.68	0.00	0	0	0	100	0.00	0.0	1.171	0.022	0	0	0	0
PL.62587	PD.9394	A	#4 ACSR	7.40Y	123.3	0.00	1.68	1.07	1	8	2	97	0.00	0.0	1.190	0.041	8	2	1	1
PL.62613	PL.62612	C	6 A (CWC)	7.43Y	123.8	0.00	1.19	10.24	7	73	21	96	0.00	0.0	0.799	0.002	0	0	0	11
PD.9429	PL.62613	C	50T	7.43Y	123.8	0.00	1.19	10.24	0	73	21	96	0.00	0.0	0.799	0.002	0	0	0	11
PL.62611	PD.9429	C	6 A (CWC)	7.43Y	123.8	0.02	1.22	10.24	7	73	21	96	0.01	0.0	0.852	0.053	0	0	0	11
PL.37272	PL.62611	C	6 A (CWC)	7.43Y	123.8	0.01	1.23	1.80	1	13	4	96	0.00	0.0	0.919	0.067	0	0	0	2
PL.38688	PL.37272	C	6 A (CWC)	7.43Y	123.8	0.01	1.23	1.80	1	13	4	96	0.00	0.0	1.013	0.094	0	0	0	2
PL.38689	PL.38688	C	6 A (CWC)	7.43Y	123.8	0.01	1.24	1.80	1	13	4	96	0.00	0.0	1.128	0.115	6	2	1	2
PL.38690	PL.38689	C	6 A (CWC)	7.43Y	123.8	0.00	1.24	0.94	1	7	2	96	0.00	0.0	1.182	0.054	7	2	1	1
PL.37742	PL.62611	C	6 A (CWC)	7.43Y	123.8	0.01	1.23	8.44	6	60	18	96	0.00	0.0	0.912	0.061	60	18	9	9
PL.62605	PL.62628	C	#2 ACSR	7.45Y	124.2	0.00	0.85	2.02	1	14	4	96	0.00	0.0	0.560	0.002	0	0	0	1
PD.9426	PL.62605	C	50T	7.45Y	124.2	0.00	0.85	2.02	0	14	4	96	0.00	0.0	0.560	0.002	0	0	0	1
PL.62606	PD.9426	C	#2 ACSR	7.45Y	124.1	0.00	0.85	2.02	1	14	4	96	0.00	0.0	0.590	0.030	0	0	0	1
PL.37352	PL.62606	C	#2 ACSR	7.45Y	124.1	0.00	0.85	2.02	1	14	4	96	0.00	0.0	0.613	0.023	14	4	1	1
PL.62602	PL.62626	B	#4 ACSR	7.48Y	124.7	0.00	0.26	70.96	55	509	152	96	0.01	0.0	0.157	0.001	0	0	0	62
PD.6046	PL.62602	B	50T	7.48Y	124.7	0.00	0.26	70.96	0	509	152	96	0.00	0.0	0.157	0.001	0	0	0	62
PL.37853	PD.6046	B	#4 ACSR 6/	7.48Y	124.6	0.12	0.38	70.66	50	507	151	96	0.45	0.1	0.194	0.037	7	2	1	61

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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38663	PL.37853	B	#4 ACSR 6/	7.46Y	124.3	0.31	0.69	69.68	50	499	149	96	1.16	0.2	0.291	0.097	6	2	2	60
PL.38664	PL.38663	B	#4 ACSR 6/	7.45Y	124.1	0.22	0.92	68.86	49	492	147	96	0.81	0.2	0.360	0.069	2	1	1	58
PL.37555	PL.38664	B	#4 ACSR 6/	7.43Y	123.8	0.25	1.17	65.32	47	466	139	96	0.87	0.2	0.442	0.082	0	0	0	52
PL.37339	PL.37555	B	6 A (CWC)	7.43Y	123.8	0.00	1.17	0.37	0	3	1	95	0.00	0.0	0.569	0.127	3	1	1	1
PL.38665	PL.37555	B	#4 ACSR 6/	7.41Y	123.5	0.37	1.54	64.94	46	463	138	96	1.30	0.3	0.566	0.123	0	0	0	51
PL.37831	PL.38665	B	#4 ACSR 6/	7.41Y	123.5	0.00	1.54	0.53	0	4	1	97	0.00	0.0	0.686	0.120	4	1	1	1
PL.38666	PL.38665	B	#4 ACSR 6/	7.39Y	123.2	0.24	1.78	64.42	46	457	136	96	0.82	0.2	0.647	0.082	14	4	2	50
PL.38667	PL.38666	B	#4 ACSR 6/	7.37Y	122.8	0.40	2.18	62.39	45	442	131	96	1.34	0.3	0.785	0.138	0	0	0	48
PL.37385	PL.38667	B	6 A (CWC)	7.37Y	122.8	0.00	2.18	0.45	0	3	1	95	0.00	0.0	0.958	0.173	3	1	1	1
PL.38668	PL.38667	B	#4 ACSR 6/	7.36Y	122.6	0.20	2.38	61.94	44	438	129	96	0.64	0.1	0.855	0.070	19	6	1	47
PL.38669	PL.38668	B	6 A (CWC)	7.36Y	122.6	0.00	2.38	2.19	2	15	4	97	0.00	0.0	0.896	0.041	0	0	0	3
PL.38670	PL.38669	B	6 A (CWC)	7.36Y	122.6	0.00	2.39	0.76	1	5	2	93	0.00	0.0	0.986	0.090	5	2	1	1
PL.37381	PL.38669	B	#2 ACSR 6/	7.36Y	122.6	0.00	2.39	1.43	1	10	3	96	0.00	0.0	0.913	0.017	10	3	2	2
PL.38671	PL.38668	B	6 A (CWC)	7.34Y	122.4	0.25	2.63	57.02	41	402	119	96	0.75	0.2	0.950	0.095	0	0	0	43
PL.37706	PL.38671	B	#2 ACSR 6/	7.34Y	122.4	0.00	2.63	1.57	1	11	3	96	0.00	0.0	1.020	0.070	11	3	1	1
PL.64512	PL.38671	B	6 A (CWC)	7.33Y	122.2	0.21	2.84	55.45	40	391	115	96	0.61	0.2	1.032	0.082	0	0	0	42
PL.64510	PL.64512	B	6 A (CWC)	7.32Y	122.1	0.08	2.92	53.52	38	376	111	96	0.23	0.1	1.065	0.034	0	0	0	38
PL.64509	PL.64510	B	#4/0 ACSR	7.32Y	122.1	0.00	2.92	2.24	1	16	5	95	0.00	0.0	1.133	0.067	16	5	3	3
PL.64511	PL.64510	B	6 A (CWC)	7.32Y	122.0	0.12	3.04	51.28	37	360	106	96	0.31	0.1	1.117	0.052	22	6	2	35
PL.64514	PL.64511	B	#6 ACSR 6/	7.30Y	121.7	0.30	3.34	48.21	48	338	100	96	0.80	0.2	1.210	0.093	10	3	1	33
PL.38672	PL.64514	B	6 A (CWC)	7.29Y	121.5	0.20	3.54	46.82	33	328	96	96	0.48	0.1	1.304	0.094	20	6	2	32
PL.38673	PL.38672	B	6 A (CWC)	7.28Y	121.4	0.10	3.64	43.90	31	307	90	96	0.24	0.1	1.356	0.052	0	0	0	30
PL.37409	PL.38673	B	#4 ACSR 6/	7.27Y	121.2	0.15	3.79	42.00	30	293	86	96	0.34	0.1	1.434	0.077	0	0	0	29
PL.37188	PL.37409	B	6 A (CWC)	7.27Y	121.2	0.01	3.80	6.56	5	46	13	96	0.00	0.0	1.475	0.041	22	6	2	4
PL.37257	PL.37188	B	6 A (CWC)	7.27Y	121.2	0.00	3.80	3.44	2	24	7	96	0.00	0.0	1.501	0.026	24	7	2	2
PL.37410	PL.37409	B	#4 ACSR 6/	7.26Y	121.0	0.18	3.97	35.44	25	247	73	96	0.34	0.1	1.544	0.110	0	0	0	25
PL.38676	PL.37410	B	#4 ACSR 6/	7.26Y	121.0	0.01	3.98	1.89	1	13	4	96	0.00	0.0	1.632	0.088	0	0	0	1
PL.38677	PL.38676	B	#4 ACSR 6/	7.26Y	121.0	0.00	3.98	1.89	1	13	4	96	0.00	0.0	1.697	0.066	13	4	1	1
PL.37747	PL.37410	B	6 A (CWC)	7.25Y	120.9	0.15	4.12	33.55	24	234	69	96	0.27	0.1	1.643	0.099	5	2	1	24
PL.38438	PL.37747	B	6 A (CWC)	7.25Y	120.8	0.09	4.21	32.78	23	228	67	96	0.15	0.1	1.704	0.061	20	6	2	23
PL.37325	PL.38438	B	6 A (CWC)	7.25Y	120.8	0.00	4.21	1.68	1	12	3	97	0.00	0.0	1.749	0.045	12	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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38674	PL.38438	B	6 A (CWC)	7.24Y	120.6	0.19	4.41	28.24	20	196	58	96	0.29	0.1	1.856	0.152	7	2	1	20
PL.37251	PL.38674	B	#1/0 ACSR	7.24Y	120.6	0.00	4.41	2.18	1	15	4	97	0.00	0.0	1.970	0.115	15	4	1	1
PL.38675	PL.38674	B	6 A (CWC)	7.23Y	120.5	0.14	4.55	25.09	18	174	51	96	0.19	0.1	1.978	0.122	0	0	0	18
PL.37633	PL.38675	B	6 A (CWC)	7.21Y	120.2	0.29	4.84	24.87	18	172	50	96	0.39	0.2	2.235	0.257	0	0	1	17
PL.37634	PL.37633	B	6 A (CWC)	7.20Y	120.1	0.08	4.92	23.47	17	162	47	96	0.09	0.1	2.309	0.074	13	4	1	15
PL.37367	PL.37634	B	6 A (CWC)	7.20Y	120.0	0.06	4.98	21.65	15	150	44	96	0.07	0.0	2.369	0.060	0	0	0	14
PL.61406	PL.37367	B	#1/0 ACSR	7.20Y	120.0	0.00	4.98	3.42	1	24	7	96	0.00	0.0	2.373	0.003	0	0	0	2
PD.9137	PL.61406	B	20T	7.20Y	120.0	0.00	4.98	3.42	0	24	7	96	0.00	0.0	2.373	0.003	0	0	0	2
PL.61407	PD.9137	B	#1/0 ACSR	7.20Y	120.0	0.00	4.98	3.42	1	24	7	96	0.00	0.0	2.429	0.056	9	3	1	2
PL.61405	PL.61407	B	#1/0 ACSR	7.20Y	120.0	0.00	4.98	2.11	1	15	4	97	0.00	0.0	2.449	0.020	15	4	1	1
PL.37368	PL.37367	B	6 A (CWC)	7.20Y	120.0	0.07	5.05	18.23	13	126	37	96	0.07	0.1	2.452	0.082	3	1	1	12
PL.37548	PL.37368	B	6 A (CWC)	7.20Y	120.0	0.00	5.05	0.92	1	6	2	95	0.00	0.0	2.486	0.034	6	2	1	1
PL.37371	PL.37368	B	6 A (CWC)	7.20Y	119.9	0.04	5.08	16.89	12	117	34	96	0.03	0.0	2.500	0.049	0	0	0	10
PL.62823	PL.37371	B	#4 ACSR	7.19Y	119.8	0.13	5.21	14.53	11	100	29	96	0.10	0.1	2.701	0.200	0	0	0	9
PL.62824	PL.62823	B	#4 ACSR	7.19Y	119.8	0.02	5.23	14.53	11	100	29	96	0.02	0.0	2.733	0.033	0	0	0	9
PL.62826	PL.62824	B	#1/0 ACSR	7.19Y	119.8	0.00	5.23	0.43	0	3	1	95	0.00	0.0	2.750	0.017	3	1	2	2
PL.62825	PL.62824	B	#4 ACSR	7.18Y	119.7	0.03	5.26	14.10	11	97	28	96	0.02	0.0	2.780	0.047	12	4	1	7
PL.37372	PL.62825	B	6 A (CWC)	7.18Y	119.7	0.02	5.28	12.31	9	85	25	96	0.01	0.0	2.811	0.031	0	0	0	6
PL.61030	PL.37372	B	6 A (CWC)	7.18Y	119.7	0.06	5.34	10.46	7	72	21	96	0.03	0.0	2.929	0.118	0	0	0	5
PL.61031	PL.61030	B	6 A (CWC)	7.18Y	119.7	0.01	5.34	9.43	7	65	19	96	0.00	0.0	2.951	0.021	21	6	1	4
PL.37220	PL.61031	B	6 A (CWC)	7.18Y	119.6	0.03	5.38	6.34	5	44	13	96	0.01	0.0	3.085	0.134	13	4	1	3
PL.61404	PL.37220	B	#1/0 ACSR	7.18Y	119.6	0.00	5.38	1.71	1	12	3	97	0.00	0.0	3.282	0.197	12	3	1	1
PL.38397	PL.37220	B	6 A (CWC)	7.18Y	119.6	0.00	5.38	2.68	2	18	5	96	0.00	0.0	3.156	0.071	18	5	1	1
PL.61032	PL.61030	B	#1/0 ACSR	7.18Y	119.7	0.00	5.34	1.03	0	7	2	96	0.00	0.0	2.983	0.054	7	2	1	1
PL.36758	PL.37372	B	#2 ACSR 6/	7.18Y	119.7	0.01	5.29	1.85	1	13	4	96	0.00	0.0	3.001	0.189	13	4	1	1
PL.37369	PL.37371	B	#4 ACSR 6/	7.19Y	119.9	0.00	5.09	2.37	2	16	5	95	0.00	0.0	2.529	0.028	0	0	0	1
PL.37370	PL.37369	B	#4 ACSR 6/	7.19Y	119.9	0.00	5.09	2.37	2	16	5	95	0.00	0.0	2.591	0.062	16	5	1	1
PL.37746	PL.37633	B	6 A (CWC)	7.21Y	120.2	0.00	4.84	1.39	1	10	3	96	0.00	0.0	2.299	0.063	10	3	1	1
PL.37862	PL.38675	B	6 A (CWC)	7.23Y	120.5	0.00	4.55	0.22	0	2	0	100	0.00	0.0	2.061	0.083	2	0	1	1
PL.38423	PL.37409	B	6 A (CWC)	7.27Y	121.2	0.00	3.79	0.00	0	0	0	100	0.00	0.0	1.475	0.041	0	0	0	0
PL.37705	PL.38673	B	#4 ACSR 6/	7.28Y	121.4	0.00	3.64	1.91	1	13	4	96	0.00	0.0	1.420	0.064	13	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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.64513	PL.64512	B	#4 ACSR 6/	7.33Y	122.2	0.00	2.84	1.92	1	14	4	96	0.00	0.0	1.066	0.034	0	0	1	4
PL.37115	PL.64513	B	#4 ACSR 6/	7.33Y	122.2	0.00	2.84	1.90	1	13	4	96	0.00	0.0	1.112	0.047	7	2	1	3
PL.37116	PL.37115	B	#4 ACSR 6/	7.33Y	122.2	0.00	2.85	0.89	1	6	2	95	0.00	0.0	1.189	0.076	6	2	2	2
PL.38433	PL.38664	B	#4 ACSR 6/	7.44Y	124.1	0.02	0.94	3.30	2	24	7	96	0.00	0.0	0.515	0.156	3	1	1	5
PL.38434	PL.38433	B	#4 ACSR 6/	7.44Y	124.1	0.01	0.94	2.87	2	21	6	96	0.00	0.0	0.604	0.088	21	6	4	4
PL.64896	PD.6046	B	#1/0 ACSR	7.48Y	124.7	0.00	0.26	0.30	0	2	1	89	0.00	0.0	0.211	0.054	2	1	1	1
PL.62356	PL.64896	B	#4 ACSR	7.48Y	124.7	0.00	0.26	0.00	0	0	0	100	0.00	0.0	0.277	0.066	0	0	0	0
PL.62357	PL.64896	B	#4 ACSR	7.48Y	124.7	0.00	0.26	0.00	0	0	0	100	0.00	0.0	0.254	0.043	0	0	0	0
PL.62140	Conway	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	137.66	27	2939	979	95	0.10	0.0	0.006	0.006	0	0	0	416
PL.62141	PL.62140	ABC	336 MCM AC	7.50Y	125.0	0.01	0.02	137.66	27	2938	979	95	0.14	0.0	0.015	0.009	0	0	0	416
---------- Feeder No. 3 (ScaffoldCaneF3) Beginning with Device PD.9312 ----------																				
PD.9312	PL.62141	ABC	480VWE	7.50Y	125.0	0.00	0.02	137.66	0	2938	979	95	0.00	0.0	0.015	0.009	0	0	0	416
PL.62125	PD.9312	ABC	336 MCM AC	7.50Y	124.9	0.06	0.08	137.66	27	2938	979	95	0.92	0.0	0.073	0.057	0	0	0	416
PL.62127	PL.62125	ABC	336 MCM AC	7.48Y	124.6	0.33	0.41	137.66	27	2937	976	95	4.93	0.2	0.382	0.309	0	0	0	416
PL.62128	PL.62127	ABC	336 MCM AC	7.46Y	124.3	0.27	0.69	137.66	27	2932	965	95	4.06	0.1	0.636	0.254	0	0	0	416
PL.62129	PL.62128	ABC	336 MCM AC	7.45Y	124.2	0.10	0.79	137.66	27	2928	955	95	1.44	0.0	0.726	0.090	1	0	1	416
PL.38686	PL.62129	C	#1/0 ACSR	7.45Y	124.2	0.00	0.79	1.47	1	11	3	96	0.00	0.0	0.728	0.002	0	0	0	1
PD.5989	PL.38686	C	30QA	7.45Y	124.2	0.00	0.79	1.47	5	11	3	96	0.00	0.0	0.728	0.002	0	0	0	1
PL.38687	PD.5989	C	#1/0 ACSR	7.45Y	124.2	0.00	0.79	1.47	1	11	3	96	0.00	0.0	0.757	0.029	11	3	1	1
PL.37310	PL.62129	ABC	336 MCM AC	7.45Y	124.2	0.06	0.85	137.12	26	2915	949	95	0.87	0.0	0.781	0.055	0	0	0	414
PL.37311	PL.37310	A	#2 ACSR	7.45Y	124.2	0.00	0.85	0.00	0	0	0	100	0.00	0.0	0.782	0.001	0	0	0	0
PD.6059	PL.37311	A	30QA	7.45Y	124.2	0.00	0.85	0.00	0	0	0	100	0.00	0.0	0.782	0.001	0	0	0	0
PL.37312	PD.6059	A	#2 ACSR	7.45Y	124.2	0.00	0.85	0.00	0	0	0	100	0.00	0.0	0.830	0.047	0	0	0	0
PL.61769	PL.37310	ABC	336 MCM AC	7.45Y	124.1	0.04	0.89	137.12	26	2914	947	95	0.66	0.0	0.823	0.042	0	0	0	414
PL.61768	PL.61769	ABC	336 MCM AC	7.44Y	124.1	0.05	0.94	137.12	26	2914	945	95	0.71	0.0	0.868	0.045	0	0	0	414
PL.52505	PL.61768	ABC	336 MCM AC	7.44Y	124.1	0.00	0.94	137.12	26	2913	943	95	0.02	0.0	0.869	0.002	0	0	0	414
PL.52502	PL.52505	ABC	336 MCM AC	7.44Y	124.0	0.05	0.98	137.12	26	2913	943	95	0.67	0.0	0.911	0.042	0	0	0	414
PL.52503	PL.52502	ABC	336 MCM AC	7.42Y	123.7	0.31	1.29	136.25	26	2894	936	95	4.49	0.2	1.198	0.287	0	0	0	413
PL.38684	PL.52503	ABC	336 MCM AC	7.42Y	123.6	0.06	1.35	136.25	26	2889	926	95	0.93	0.0	1.258	0.060	0	0	0	413

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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38681	PL.38684	A	#1/0 ACSR	7.42Y	123.6	0.00	1.35	1.84	1	13	4	96	0.00	0.0	1.259	0.001	0	0	0	1
PD.5968	PL.38681	A	25QA	7.42Y	123.6	0.00	1.35	1.84	7	13	4	96	0.00	0.0	1.259	0.001	0	0	0	1
PL.38682	PD.5968	A	#1/0 ACSR	7.42Y	123.6	0.00	1.35	1.84	1	13	4	96	0.00	0.0	1.289	0.030	0	0	0	1
PL.38683	PL.38682	A	#1/0 ACSR	7.42Y	123.6	0.00	1.36	1.84	1	13	4	96	0.00	0.0	1.334	0.045	13	4	1	1
PL.38680	PL.38684	ABC	336 MCM AC	7.42Y	123.6	0.03	1.38	135.64	26	2875	920	95	0.43	0.0	1.286	0.028	0	0	0	412
PL.38679	PL.38680	ABC	336 MCM AC	7.41Y	123.5	0.08	1.46	135.64	26	2875	919	95	1.17	0.0	1.361	0.076	10	3	1	412
PL.38026	PL.38679	A	#2 ACSR	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	1.362	0.001	0	0	0	0
PD.5974	PL.38026	A	60QA	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	1.362	0.001	0	0	0	0
PL.38678	PD.5974	A	#2 ACSR	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	1.401	0.039	0	0	0	0
PL.37768	PL.38679	ABC	336 MCM AC	7.41Y	123.4	0.10	1.56	135.18	26	2864	913	95	1.44	0.1	1.455	0.094	11	3	2	411
PL.37767	PL.37768	ABC	336 MCM AC	7.40Y	123.4	0.08	1.64	134.66	26	2851	907	95	1.17	0.0	1.532	0.076	0	0	0	409
PL.37112	PL.37767	ABC	336 MCM AC	7.40Y	123.3	0.10	1.74	134.25	26	2841	902	95	1.39	0.0	1.623	0.091	4	1	1	408
PL.37760	PL.37112	ABC	336 MCM AC	7.39Y	123.2	0.07	1.81	134.06	26	2836	897	95	1.05	0.0	1.693	0.069	0	0	0	407
PL.38021	PL.37760	ABC	336 MCM AC	7.39Y	123.1	0.06	1.87	133.62	26	2825	892	95	0.89	0.0	1.752	0.059	0	0	0	406
PL.38020	PL.38021	ABC	336 MCM AC	7.38Y	123.1	0.05	1.92	133.62	26	2825	890	95	0.78	0.0	1.804	0.052	0	0	0	406
PL.60038	PL.38020	ABC	#1/0 ACSR	7.38Y	123.1	0.01	1.93	14.72	6	311	98	95	0.01	0.0	1.831	0.027	19	6	1	39
PL.60039	PL.60038	ABC	#1/0 ACSR	7.38Y	123.1	0.01	1.94	13.81	6	292	92	95	0.01	0.0	1.854	0.023	0	0	0	38
PL.60042	PL.60039	ABC	#1/0 ACSR	7.38Y	123.1	0.00	1.94	13.81	6	292	92	95	0.00	0.0	1.857	0.003	0	0	0	38
PD.8846	PL.60042	ABC	70L	7.38Y	123.1	0.00	1.94	13.81	20	292	92	95	0.00	0.0	1.857	0.003	0	0	0	38
PL.60043	PD.8846	ABC	#1/0 ACSR	7.38Y	123.1	0.01	1.94	13.81	6	292	92	95	0.01	0.0	1.877	0.020	0	0	0	38
PL.60040	PL.60043	ABC	#4 ACSR	7.38Y	123.1	0.00	1.94	0.60	0	13	4	96	0.00	0.0	1.906	0.029	13	4	1	1
PL.60041	PL.60043	ABC	#1/0 ACSR	7.38Y	123.0	0.01	1.95	13.21	6	279	88	95	0.02	0.0	1.921	0.044	15	4	2	37
PL.38592	PL.60041	A	6 A (CWC)	7.38Y	123.0	0.00	1.95	2.23	2	16	5	95	0.00	0.0	1.921	0.000	0	0	0	2
PD.5971	PL.38592	A	40QA	7.38Y	123.0	0.00	1.95	2.23	6	16	5	95	0.00	0.0	1.921	0.000	0	0	0	2
PL.38593	PD.5971	A	6 A (CWC)	7.38Y	123.0	0.00	1.96	2.23	2	16	5	95	0.00	0.0	1.988	0.067	16	5	2	2
PL.38594	PL.60041	ABC	#1/0 ACSR	7.38Y	123.0	0.01	1.96	11.76	5	248	79	95	0.02	0.0	1.962	0.042	4	1	1	33
PL.38595	PL.38594	ABC	#1/0 ACSR	7.38Y	123.0	0.02	1.99	11.59	5	244	78	95	0.04	0.0	2.075	0.113	0	0	0	32
PL.37113	PL.38595	ABC	#1/0 ACSR	7.38Y	123.0	0.01	1.99	11.21	5	236	76	95	0.01	0.0	2.114	0.039	0	0	0	31
PL.37114	PL.37113	ABC	#1/0 ACSR	7.38Y	122.9	0.07	2.06	10.82	5	228	73	95	0.11	0.0	2.475	0.360	0	0	0	30
PL.38600	PL.37114	A	#2 ACSR	7.38Y	122.9	0.00	2.07	23.81	14	169	49	96	0.00	0.0	2.475	0.000	0	0	0	23
PD.5973	PL.38600	A	40QA	7.38Y	122.9	0.00	2.07	23.81	60	169	49	96	0.00	0.0	2.475	0.000	0	0	0	23

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38601	PD.5973	A	#2 ACSR	7.37Y	122.8	0.13	2.20	23.81	14	169	49	96	0.15	0.1	2.668	0.193	31	9	2	23
PL.57560	PL.38601	A	#2 ACSR	7.37Y	122.8	0.03	2.23	14.73	8	104	30	96	0.03	0.0	2.741	0.072	0	0	0	19
PL.57561	PL.57560	A	#2 ACSR	7.37Y	122.8	0.01	2.24	8.32	5	59	17	96	0.00	0.0	2.790	0.049	12	3	1	11
PL.37920	PL.57561	A	#4 ACSR	7.36Y	122.7	0.01	2.25	3.37	3	24	7	96	0.00	0.0	2.878	0.088	7	2	2	5
PL.37635	PL.37920	A	#4 ACSR	7.36Y	122.7	0.01	2.26	2.18	2	15	4	97	0.00	0.0	2.966	0.088	12	3	1	2
PL.37636	PL.37635	A	#4 ACSR	7.36Y	122.7	0.00	2.26	0.53	0	4	1	97	0.00	0.0	3.022	0.056	4	1	1	1
PL.37921	PL.37920	A	#4 ACSR	7.36Y	122.7	0.00	2.26	0.24	0	2	0	100	0.00	0.0	3.151	0.273	2	0	1	1
PL.37725	PL.57561	A	#2 ACSR	7.37Y	122.8	0.00	2.24	1.87	1	13	4	96	0.00	0.0	2.828	0.039	13	4	2	2
PL.37922	PL.57561	A	#2 ACSR	7.37Y	122.8	0.01	2.25	1.46	1	10	3	96	0.00	0.0	2.957	0.167	4	1	1	3
PL.37923	PL.37922	A	#2 ACSR	7.36Y	122.7	0.00	2.25	0.91	1	6	2	95	0.00	0.0	2.997	0.040	0	0	1	2
PL.37924	PL.37923	A	#2 ACSR	7.36Y	122.7	0.00	2.25	0.91	1	6	2	95	0.00	0.0	3.029	0.032	6	2	1	1
PL.57562	PL.57560	A	#2 ACSR	7.36Y	122.7	0.02	2.25	6.40	4	45	13	96	0.01	0.0	2.852	0.112	0	0	0	8
PL.57563	PL.57562	A	#1/0 ACSR	7.36Y	122.7	0.00	2.25	1.70	1	12	3	97	0.00	0.0	2.856	0.004	0	0	0	2
PD.8378	PL.57563	A	20QA	7.36Y	122.7	0.00	2.25	1.70	8	12	3	97	0.00	0.0	2.856	0.004	0	0	0	2
PL.65308	PD.8378	A	#1/0 ACSR	7.36Y	122.7	0.00	2.25	1.70	1	12	3	97	0.00	0.0	2.904	0.047	12	3	2	2
PL.57526	PL.57562	A	#2 ACSR	7.36Y	122.7	0.01	2.26	4.70	3	33	10	96	0.00	0.0	2.892	0.040	0	0	0	6
PL.57349	PL.57526	A	#2 ACSR	7.36Y	122.7	0.01	2.27	4.70	3	33	10	96	0.00	0.0	2.943	0.050	7	2	1	6
PL.57347	PL.57349	A	#2 ACSR	7.36Y	122.7	0.00	2.27	0.71	0	5	1	98	0.00	0.0	3.012	0.069	5	1	2	2
PL.57346	PL.57349	A	#2 ACSR	7.36Y	122.7	0.00	2.27	3.01	2	21	6	96	0.00	0.0	3.007	0.064	13	4	1	3
PL.37423	PL.57346	A	#2 ACSR	7.36Y	122.7	0.00	2.27	1.16	1	8	2	97	0.00	0.0	3.035	0.028	0	0	0	2
PL.57348	PL.37423	A	#2 ACSR	7.36Y	122.7	0.00	2.27	1.16	1	8	2	97	0.00	0.0	3.060	0.026	8	2	2	2
PL.37421	PL.38601	A	#2 ACSR	7.37Y	122.8	0.00	2.20	4.73	3	33	10	96	0.00	0.0	2.694	0.025	0	0	0	2
PL.37422	PL.37421	A	#2 ACSR	7.37Y	122.8	0.00	2.20	2.99	2	21	6	96	0.00	0.0	2.732	0.039	21	6	1	1
PL.37293	PL.37421	A	#2 ACSR	7.37Y	122.8	0.00	2.20	1.74	1	12	4	95	0.00	0.0	2.729	0.035	12	4	1	1
PL.37778	PL.37114	ABC	#2 ACSR	7.38Y	122.9	0.02	2.08	2.90	2	59	24	93	0.01	0.0	2.680	0.205	0	0	1	7
PL.37687	PL.37778	C	#2 ACSR	7.37Y	122.9	0.01	2.09	1.56	1	11	3	96	0.00	0.0	2.817	0.137	0	0	0	2
PL.37828	PL.37687	C	#2 ACSR	7.37Y	122.9	0.00	2.09	1.56	1	11	3	96	0.00	0.0	2.861	0.043	6	2	1	2
PL.62706	PL.37828	C	#2 ACSR	7.37Y	122.9	0.00	2.09	0.66	0	5	1	98	0.00	0.0	2.861	0.000	0	0	0	1
PL.62705	PL.62706	C	#2 ACSR	7.37Y	122.9	0.00	2.09	0.66	0	5	1	98	0.00	0.0	2.963	0.102	5	1	1	1
PL.38662	PL.37778	ABC	#2 ACSR	7.38Y	122.9	0.00	2.08	2.24	1	45	20	91	0.00	0.0	2.681	0.001	0	0	0	3
PD.5995	PL.38662	ABC	40QA	7.38Y	122.9	0.00	2.08	2.24	6	45	20	91	0.00	0.0	2.681	0.001	0	0	0	3

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62707	PD.5995	ABC	#2 ACSR	7.38Y	122.9	0.00	2.08	2.24	1	45	20	91	0.00	0.0	2.713	0.032	10	3	1	3
PL.62708	PL.62707	ABC	#2 ACSR	7.37Y	122.9	0.01	2.09	1.78	1	35	17	90	0.00	0.0	2.956	0.243	31	15	1	2
PL.63075	PL.62708	ABC	#1/0 ACSR	7.37Y	122.9	0.00	2.09	0.23	0	5	2	93	0.00	0.0	2.958	0.002	5	2	1	1
PL.37338	PL.37778	C	#4 ACSR	7.38Y	122.9	0.00	2.08	0.39	0	3	1	95	0.00	0.0	2.761	0.081	3	1	1	1
PL.38598	PL.37113	C	#4 ACSR	7.38Y	123.0	0.00	1.99	1.18	1	8	2	97	0.00	0.0	2.115	0.000	0	0	0	1
PD.6003	PL.38598	C	40QA	7.38Y	123.0	0.00	1.99	1.18	3	8	2	97	0.00	0.0	2.115	0.000	0	0	0	1
PL.38599	PD.6003	C	#4 ACSR	7.38Y	123.0	0.00	1.99	1.18	1	8	2	97	0.00	0.0	2.152	0.037	8	2	1	1
PL.38596	PL.38595	C	#4 ACSR	7.38Y	123.0	0.00	1.99	1.12	1	8	2	97	0.00	0.0	2.077	0.002	0	0	0	1
PD.5972	PL.38596	C	40QA	7.38Y	123.0	0.00	1.99	1.12	3	8	2	97	0.00	0.0	2.077	0.002	0	0	0	1
PL.38597	PD.5972	C	#4 ACSR	7.38Y	123.0	0.00	1.99	1.12	1	8	2	97	0.00	0.0	2.112	0.035	8	2	1	1
PL.37554	PL.38020	ABC	336 MCM AC	7.38Y	123.0	0.04	1.96	118.90	23	2513	790	95	0.50	0.0	1.846	0.042	2	1	1	367
PL.37553	PL.37554	ABC	336 MCM AC	7.38Y	123.0	0.04	2.00	118.80	23	2510	789	95	0.51	0.0	1.889	0.043	12	3	2	366
PL.38357	PL.37553	ABC	336 MCM AC	7.38Y	123.0	0.04	2.05	118.25	23	2498	784	95	0.58	0.0	1.938	0.049	10	3	1	364
PL.38356	PL.38357	ABC	336 MCM AC	7.38Y	122.9	0.04	2.08	117.78	23	2487	780	95	0.46	0.0	1.978	0.040	15	4	1	363
PL.37536	PL.38356	ABC	336 MCM AC	7.37Y	122.9	0.04	2.12	116.05	22	2450	768	95	0.51	0.0	2.023	0.045	20	6	2	358
PL.37552	PL.37536	ABC	336 MCM AC	7.37Y	122.8	0.03	2.16	115.12	22	2430	761	95	0.43	0.0	2.061	0.039	0	0	0	356
PL.38450	PL.37552	ABC	336 MCM AC	7.37Y	122.8	0.02	2.18	115.12	22	2429	760	95	0.29	0.0	2.088	0.026	0	0	0	356
PL.37109	PL.38450	C	#2 ACSR	7.37Y	122.8	0.02	2.20	42.43	24	300	88	96	0.05	0.0	2.103	0.016	0	0	0	41
PL.37532	PL.37109	C	#2 ACSR	7.37Y	122.8	0.00	2.20	42.43	24	300	88	96	0.00	0.0	2.104	0.001	0	0	0	41
PD.6085	PL.37532	C	70L	7.37Y	122.8	0.00	2.20	42.43	61	300	88	96	0.00	0.0	2.104	0.001	0	0	0	41
PL.37533	PD.6085	C	#2 ACSR	7.36Y	122.7	0.06	2.26	42.43	24	300	88	96	0.12	0.0	2.148	0.044	6	2	1	41
PL.37551	PL.37533	C	#2 ACSR	7.36Y	122.7	0.04	2.30	41.56	24	294	86	96	0.09	0.0	2.181	0.033	2	0	1	40
PL.37531	PL.37551	C	#2 ACSR	7.36Y	122.6	0.07	2.38	41.33	24	292	86	96	0.15	0.1	2.237	0.057	4	1	2	39
PL.37550	PL.37531	C	#2 ACSR	7.35Y	122.5	0.13	2.50	40.71	23	287	84	96	0.26	0.1	2.336	0.099	9	3	1	37
PL.37184	PL.37550	C	#2 ACSR	7.34Y	122.4	0.10	2.60	39.45	23	278	82	96	0.20	0.1	2.418	0.082	15	4	1	36
PL.37183	PL.37184	C	#2 ACSR	7.34Y	122.3	0.07	2.68	37.28	21	263	77	96	0.14	0.1	2.482	0.063	10	3	1	35
PL.37529	PL.37183	C	#2 ACSR	7.33Y	122.2	0.14	2.82	35.84	20	252	74	96	0.26	0.1	2.611	0.130	12	3	3	34
PL.37530	PL.37529	C	#2 ACSR	7.32Y	122.1	0.11	2.92	32.71	19	230	67	96	0.18	0.1	2.713	0.102	1	0	1	30
PL.37343	PL.37530	C	6 A (CWC)	7.32Y	122.0	0.08	3.00	24.17	17	170	50	96	0.10	0.1	2.785	0.072	0	0	0	23
PL.37317	PL.37343	C	6 A (CWC)	7.31Y	121.8	0.15	3.15	23.16	17	163	48	96	0.18	0.1	2.923	0.138	0	0	0	22
PL.37523	PL.37317	C	6 A (CWC)	7.30Y	121.7	0.19	3.34	20.73	15	146	43	96	0.20	0.1	3.139	0.216	17	5	3	20

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37522	PL.37523	C	6 A (CWC)	7.29Y	121.5	0.13	3.48	18.29	13	128	37	96	0.12	0.1	3.302	0.163	9	3	1	17
PL.37521	PL.37522	C	6 A (CWC)	7.29Y	121.5	0.04	3.51	16.99	12	119	35	96	0.03	0.0	3.350	0.049	0	0	0	16
PL.37915	PL.37521	C	6 A (CWC)	7.29Y	121.4	0.04	3.55	14.84	11	104	30	96	0.03	0.0	3.406	0.055	10	3	2	15
PL.64506	PL.37915	C	6 A (CWC)	7.29Y	121.4	0.00	3.55	13.46	10	94	27	96	0.00	0.0	3.406	0.000	0	0	0	13
PL.64507	PL.64506	C	6 A (CWC)	7.28Y	121.4	0.04	3.59	13.46	10	94	27	96	0.03	0.0	3.470	0.065	0	0	0	13
PL.37914	PL.64507	C	6 A (CWC)	7.28Y	121.4	0.05	3.64	13.46	10	94	27	96	0.03	0.0	3.550	0.080	3	1	1	13
PL.37913	PL.37914	C	6 A (CWC)	7.28Y	121.3	0.05	3.69	13.05	9	91	27	96	0.04	0.0	3.643	0.092	5	1	1	12
PL.37252	PL.37913	C	#4 ACSR	7.28Y	121.3	0.00	3.69	0.00	0	0	0	100	0.00	0.0	3.702	0.059	0	0	0	0
PL.37912	PL.37913	C	6 A (CWC)	7.28Y	121.3	0.04	3.73	12.40	9	87	25	96	0.02	0.0	3.721	0.078	35	10	4	11
PL.37910	PL.37912	C	6 A (CWC)	7.27Y	121.2	0.03	3.76	7.38	5	52	15	96	0.01	0.0	3.825	0.104	14	4	1	7
PL.37911	PL.37910	C	6 A (CWC)	7.27Y	121.2	0.02	3.78	5.37	4	37	11	96	0.00	0.0	3.908	0.084	11	3	2	6
PL.37827	PL.37911	C	6 A (CWC)	7.27Y	121.2	0.00	3.78	3.81	3	27	8	96	0.00	0.0	3.926	0.018	0	0	0	4
PL.36870	PL.37827	C	#4 ACSR	7.27Y	121.2	0.00	3.78	0.00	0	0	0	100	0.00	0.0	3.964	0.038	0	0	1	1
PL.37909	PL.37827	C	6 A (CWC)	7.27Y	121.2	0.01	3.79	3.81	3	27	8	96	0.00	0.0	3.985	0.059	0	0	0	3
PL.61044	PL.37909	C	6 A (CWC)	7.27Y	121.2	0.01	3.80	3.81	3	27	8	96	0.00	0.0	4.063	0.078	14	4	1	3
PL.61045	PL.61044	C	6 A (CWC)	7.27Y	121.2	0.02	3.82	1.75	1	12	4	95	0.00	0.0	4.486	0.424	12	4	2	2
PL.38411	PL.37521	C	6 A (CWC)	7.29Y	121.5	0.01	3.53	2.15	2	15	4	97	0.00	0.0	3.496	0.145	0	0	0	1
PL.37916	PL.38411	C	6 A (CWC)	7.29Y	121.5	0.00	3.53	2.15	2	15	4	97	0.00	0.0	3.515	0.019	0	0	0	1
PL.37917	PL.37916	C	6 A (CWC)	7.29Y	121.5	0.01	3.54	2.15	2	15	4	97	0.00	0.0	3.587	0.071	0	0	0	1
PL.37918	PL.37917	C	6 A (CWC)	7.29Y	121.5	0.01	3.54	2.15	2	15	4	97	0.00	0.0	3.647	0.061	0	0	0	1
PL.37919	PL.37918	C	6 A (CWC)	7.29Y	121.5	0.00	3.55	2.15	2	15	4	97	0.00	0.0	3.710	0.063	15	4	1	1
PL.37524	PL.37317	C	#4 ACSR	7.31Y	121.8	0.01	3.16	2.43	2	17	5	96	0.00	0.0	2.984	0.062	8	2	1	2
PL.37525	PL.37524	C	#4 ACSR	7.31Y	121.8	0.00	3.16	1.31	1	9	3	95	0.00	0.0	3.025	0.041	9	3	1	1
PL.37397	PL.37343	C	6 A (CWC)	7.32Y	122.0	0.00	3.01	1.00	1	7	2	96	0.00	0.0	2.828	0.043	7	2	1	1
PL.37318	PL.37530	C	6 A (CWC)	7.32Y	122.1	0.02	2.95	8.46	6	60	17	96	0.01	0.0	2.779	0.066	12	4	1	6
PL.37526	PL.37318	C	6 A (CWC)	7.32Y	122.0	0.01	2.95	6.70	5	47	14	96	0.00	0.0	2.798	0.019	0	0	0	5
PL.37491	PL.37526	C	6 A (CWC)	7.32Y	122.0	0.01	2.96	4.31	3	30	9	96	0.00	0.0	2.856	0.058	30	9	3	3
PL.37527	PL.37526	C	6 A (CWC)	7.32Y	122.0	0.00	2.96	2.39	2	17	5	96	0.00	0.0	2.830	0.031	11	3	1	2
PL.37528	PL.37527	C	6 A (CWC)	7.32Y	122.0	0.00	2.96	0.80	1	6	2	95	0.00	0.0	2.884	0.054	6	2	1	1
PL.37710	PL.37318	C	#2 ACSR	7.32Y	122.1	0.00	2.95	0.00	0	0	0	100	0.00	0.0	2.819	0.040	0	0	0	0
PL.37274	PL.37529	C	6 A (CWC)	7.33Y	122.2	0.00	2.82	1.47	1	10	3	96	0.00	0.0	2.669	0.058	10	3	1	1

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37534	PL.38450	ABC	336 MCM AC	7.37Y	122.8	0.04	2.22	100.98	19	2129	671	95	0.42	0.0	2.136	0.049	6	2	1	315
PL.37535	PL.37534	ABC	336 MCM AC	7.36Y	122.7	0.07	2.29	100.70	19	2123	668	95	0.79	0.0	2.229	0.093	15	4	2	314
PL.52651	PL.37535	ABC	336 MCM AC	7.36Y	122.6	0.11	2.40	99.98	19	2107	662	95	1.18	0.1	2.369	0.140	0	0	0	312
PL.52650	PL.52651	ABC	336 MCM AC	7.36Y	122.6	0.00	2.40	99.98	19	2106	659	95	0.01	0.0	2.370	0.002	0	0	0	312
PL.38143	PL.52650	ABC	336 MCM AC	7.35Y	122.6	0.04	2.44	99.98	19	2106	659	95	0.45	0.0	2.423	0.053	0	0	0	312
PL.38142	PL.38143	ABC	336 MCM AC	7.35Y	122.5	0.02	2.46	99.98	19	2105	658	95	0.20	0.0	2.447	0.023	8	2	1	312
PL.63063	PL.38142	A	#1/0 ACSR	7.35Y	122.5	0.00	2.46	0.92	0	6	2	95	0.00	0.0	2.450	0.003	0	0	0	1
PD.9412	PL.63063	A	25T	7.35Y	122.5	0.00	2.46	0.92	0	6	2	95	0.00	0.0	2.450	0.003	0	0	0	1
PL.63064	PD.9412	A	#1/0 ACSR	7.35Y	122.5	0.00	2.46	0.92	0	6	2	95	0.00	0.0	2.481	0.032	6	2	1	1
PL.38141	PL.38142	ABC	336 MCM AC	7.35Y	122.5	0.03	2.49	99.31	19	2091	654	95	0.33	0.0	2.487	0.040	0	0	0	310
PL.37084	PL.38141	A	#2 ACSR	7.35Y	122.5	0.00	2.49	2.22	1	16	5	95	0.00	0.0	2.487	0.001	0	0	0	4
PD.5975	PL.37084	A	60QA	7.35Y	122.5	0.00	2.49	2.22	4	16	5	95	0.00	0.0	2.487	0.001	0	0	0	4
PL.38590	PD.5975	A	#2 ACSR	7.35Y	122.5	0.00	2.49	2.22	1	16	5	95	0.00	0.0	2.503	0.015	16	5	4	4
PL.38591	PL.38141	ABC	336 MCM AC	7.35Y	122.4	0.08	2.56	98.57	19	2075	648	95	0.81	0.0	2.586	0.099	9	3	2	306
PL.37504	PL.38591	ABC	336 MCM AC	7.34Y	122.4	0.05	2.61	98.14	19	2065	644	95	0.51	0.0	2.649	0.063	5	1	1	304
PL.64784	PL.37504	ABC	336 MCM AC	7.34Y	122.3	0.05	2.66	97.92	19	2060	641	95	0.52	0.0	2.714	0.065	16	5	1	303
PL.64783	PL.64784	ABC	336 MCM AC	7.34Y	122.3	0.00	2.66	97.16	19	2043	635	95	0.00	0.0	2.714	0.000	0	0	0	302
PL.37503	PL.64783	ABC	336 MCM AC	7.34Y	122.3	0.04	2.70	97.16	19	2043	635	95	0.40	0.0	2.764	0.050	0	0	0	302
PL.37499	PL.37503	ABC	336 MCM AC	7.33Y	122.2	0.14	2.84	97.16	19	2043	634	96	1.52	0.1	2.955	0.191	0	0	0	301
PL.37498	PL.37499	ABC	336 MCM AC	7.32Y	122.1	0.10	2.94	97.16	19	2041	631	96	1.10	0.1	3.093	0.138	0	0	0	301
PL.37832	PL.37498	A	#1/0 ACSR	7.32Y	122.1	0.00	2.95	1.28	1	9	3	95	0.00	0.0	3.213	0.119	9	3	1	1
PL.38217	PL.37498	ABC	336 MCM AC	7.32Y	122.0	0.10	3.05	96.73	19	2031	626	96	1.11	0.1	3.235	0.141	9	3	3	300
PL.37497	PL.38217	ABC	336 MCM AC	7.31Y	121.8	0.18	3.23	96.33	19	2021	621	96	1.94	0.1	3.483	0.248	7	2	1	297
PL.37496	PL.37497	ABC	336 MCM AC	7.30Y	121.7	0.04	3.28	95.99	18	2012	614	96	0.44	0.0	3.540	0.057	0	0	0	296
PL.38216	PL.37496	ABC	336 MCM AC	7.30Y	121.7	0.02	3.30	95.99	18	2012	613	96	0.22	0.0	3.569	0.029	0	0	0	296
PL.38215	PL.38216	ABC	336 MCM AC	7.30Y	121.7	0.04	3.34	95.99	18	2012	612	96	0.45	0.0	3.627	0.058	0	0	0	296
PL.58501	PL.38215	C	6 A (CWC)	7.30Y	121.7	0.00	3.34	3.84	3	27	8	96	0.00	0.0	3.630	0.003	0	0	0	5
PD.8698	PL.58501	C	20T	7.30Y	121.7	0.00	3.34	3.84	0	27	8	96	0.00	0.0	3.630	0.003	0	0	0	5
PL.58502	PD.8698	C	6 A (CWC)	7.30Y	121.7	0.01	3.35	3.84	3	27	8	96	0.00	0.0	3.666	0.036	0	0	1	5
PL.64235	PL.58502	C	6 A (CWC)	7.30Y	121.6	0.00	3.35	3.84	3	27	8	96	0.00	0.0	3.693	0.027	0	0	0	4
PL.64020	PL.64235	C	6 A (CWC)	7.30Y	121.6	0.00	3.35	0.27	0	2	1	89	0.00	0.0	3.923	0.230	0	0	0	1

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.64021	PL.64020	C	6 A (CWC)	7.30Y	121.6	0.00	3.35	0.27	0	2	1	89	0.00	0.0	4.029	0.107	2	1	1	1
PL.64234	PL.64235	C	6 A (CWC)	7.30Y	121.6	0.00	3.35	3.57	3	25	7	96	0.00	0.0	3.728	0.036	14	4	2	3
PL.38437	PL.64234	C	6 A (CWC)	7.30Y	121.6	0.00	3.36	1.61	1	11	3	96	0.00	0.0	3.798	0.070	11	3	1	1
PL.37904	PL.38215	ABC	336 MCM AC	7.29Y	121.5	0.14	3.48	94.71	18	1984	604	96	1.47	0.1	3.821	0.194	0	0	0	291
PL.37903	PL.37904	ABC	336 MCM AC	7.29Y	121.5	0.06	3.54	94.71	18	1983	600	96	0.62	0.0	3.903	0.082	0	0	0	291
PL.37335	PL.37903	ABC	336 MCM AC	7.29Y	121.4	0.02	3.56	94.71	18	1982	599	96	0.23	0.0	3.933	0.030	0	0	0	291
PL.37213	PL.37335	ABC	336 MCM AC	7.28Y	121.4	0.03	3.59	70.84	14	1482	450	96	0.21	0.0	3.982	0.049	0	0	0	228
PL.38044	PL.37213	A	#2 ACSR	7.28Y	121.4	0.00	3.59	0.00	0	0	0	100	0.00	0.0	3.982	0.000	0	0	0	0
PD.6026	PL.38044	A	60QA	7.28Y	121.4	0.00	3.59	0.00	0	0	0	100	0.00	0.0	3.982	0.000	0	0	0	0
PL.37241	PD.6026	A	#2 ACSR	7.28Y	121.4	0.00	3.59	0.00	0	0	0	100	0.00	0.0	4.001	0.019	0	0	0	0
PL.37334	PL.37241	A	#2 ACSR	7.28Y	121.4	0.00	3.59	0.00	0	0	0	100	0.00	0.0	4.020	0.019	0	0	0	0
PL.37239	PL.37213	C	#2 ACSR	7.28Y	121.4	0.00	3.59	0.48	0	3	1	95	0.00	0.0	3.982	0.000	0	0	0	1
PD.5994	PL.37239	C	60QA	7.28Y	121.4	0.00	3.59	0.48	1	3	1	95	0.00	0.0	3.982	0.000	0	0	0	1
PL.37240	PD.5994	C	#2 ACSR	7.28Y	121.4	0.00	3.59	0.48	0	3	1	95	0.00	0.0	4.217	0.235	0	0	0	1
PL.37492	PL.37240	C	#2 ACSR	7.28Y	121.4	0.00	3.59	0.48	0	3	1	95	0.00	0.0	4.361	0.143	0	0	0	1
PL.37493	PL.37492	C	#2 ACSR	7.28Y	121.4	0.00	3.59	0.00	0	0	0	100	0.00	0.0	4.417	0.057	0	0	0	0
PL.37824	PL.37492	C	#4 ACSR	7.28Y	121.4	0.00	3.59	0.48	0	3	1	95	0.00	0.0	4.458	0.097	3	1	1	1
PL.38041	PL.37213	ABC	336 MCM AC	7.28Y	121.4	0.04	3.62	70.68	14	1478	448	96	0.28	0.0	4.048	0.066	0	0	0	227
PL.37297	PL.38041	ABC	336 MCM AC	7.28Y	121.3	0.09	3.71	70.68	14	1478	448	96	0.67	0.0	4.208	0.160	0	0	0	227
PL.38037	PL.37297	ABC	336 MCM AC	7.27Y	121.2	0.05	3.76	70.68	14	1477	446	96	0.40	0.0	4.304	0.096	0	0	0	227
PL.38036	PL.38037	ABC	336 MCM AC	7.27Y	121.2	0.03	3.79	70.68	14	1477	445	96	0.23	0.0	4.358	0.054	0	0	0	227
PL.38035	PL.38036	ABC	336 MCM AC	7.27Y	121.2	0.02	3.81	70.68	14	1477	445	96	0.13	0.0	4.389	0.031	0	0	0	227
PL.38034	PL.38035	ABC	336 MCM AC	7.27Y	121.2	0.03	3.83	70.68	14	1476	444	96	0.20	0.0	4.437	0.048	0	0	0	227
PL.38031	PL.38034	ABC	336 MCM AC	7.27Y	121.1	0.03	3.86	69.83	13	1458	439	96	0.20	0.0	4.485	0.048	0	0	0	226
PL.38134	PL.38031	ABC	336 MCM AC	7.26Y	121.1	0.06	3.92	68.42	13	1429	430	96	0.47	0.0	4.605	0.120	0	0	0	223
PL.58505	PL.38134	A	#2 ACSR	7.26Y	121.1	0.00	3.92	20.17	12	141	41	96	0.00	0.0	4.607	0.002	0	0	0	20
PD.8699	PL.58505	A	25T	7.26Y	121.1	0.00	3.92	20.17	0	141	41	96	0.00	0.0	4.607	0.002	0	0	0	20
PL.58506	PD.8699	A	#2 ACSR	7.26Y	121.1	0.01	3.94	20.17	12	141	41	96	0.01	0.0	4.629	0.022	0	0	0	20
PL.58503	PL.58506	A	#2 ACSR	7.26Y	121.0	0.03	3.97	10.99	6	77	22	96	0.02	0.0	4.728	0.099	7	2	1	11
PL.37900	PL.58503	A	#2 ACSR	7.26Y	121.0	0.01	3.98	9.96	6	69	20	96	0.00	0.0	4.754	0.026	0	0	0	10
PL.38103	PL.37900	A	#2 ACSR	7.26Y	121.0	0.03	4.00	9.96	6	69	20	96	0.01	0.0	4.834	0.079	0	0	0	10

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

Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38104	PL.38103	A	#2 ACSR	7.26Y	121.0	0.01	4.01	3.47	2	24	7	96	0.00	0.0	4.882	0.048	0	0	0	5
PL.37382	PL.38104	A	#2 ACSR	7.26Y	121.0	0.00	4.01	0.00	0	0	0	100	0.00	0.0	4.928	0.046	0	0	0	0
PL.38105	PL.38104	A	#2 ACSR	7.26Y	121.0	0.01	4.01	3.47	2	24	7	96	0.00	0.0	4.937	0.055	0	0	2	5
PL.37969	PL.38105	A	#2 ACSR	7.26Y	121.0	0.00	4.02	2.33	1	16	5	95	0.00	0.0	5.010	0.073	16	5	2	2
PL.37970	PL.37969	A	#2 ACSR	7.26Y	121.0	0.00	4.02	0.00	0	0	0	100	0.00	0.0	5.064	0.054	0	0	0	0
PL.37628	PL.38105	A	#2 ACSR	7.26Y	121.0	0.00	4.01	1.10	1	8	2	97	0.00	0.0	4.962	0.025	8	2	1	1
PL.37812	PL.38103	A	#2 ACSR	7.26Y	121.0	0.01	4.01	6.49	4	45	13	96	0.00	0.0	4.928	0.095	45	13	5	5
PL.58504	PL.58506	A	#2 ACSR	7.26Y	121.0	0.02	3.95	9.18	5	64	19	96	0.01	0.0	4.701	0.072	16	5	2	9
PL.37872	PL.58504	A	#2 ACSR	7.26Y	121.0	0.00	3.95	0.00	0	0	0	100	0.00	0.0	4.749	0.048	0	0	1	1
PL.37901	PL.58504	A	#2 ACSR	7.26Y	121.0	0.02	3.97	6.81	4	47	14	96	0.01	0.0	4.780	0.079	0	0	0	6
PL.38106	PL.37901	A	#2 ACSR	7.26Y	121.0	0.01	3.98	4.63	3	32	9	96	0.00	0.0	4.827	0.047	9	3	2	3
PL.38107	PL.38106	A	#2 ACSR	7.26Y	121.0	0.00	3.98	3.39	2	24	7	96	0.00	0.0	4.864	0.037	24	7	1	1
PL.37971	PL.37901	A	#1/0 ACSR	7.26Y	121.0	0.00	3.97	2.18	1	15	4	97	0.00	0.0	4.816	0.036	1	0	1	3
PL.38336	PL.37971	A	#1/0 ACSR	7.26Y	121.0	0.00	3.97	2.08	1	14	4	96	0.00	0.0	4.849	0.033	14	4	2	2
PL.37890	PL.38134	ABC	336 MCM AC	7.26Y	121.1	0.02	3.94	61.69	12	1288	387	96	0.16	0.0	4.655	0.050	0	0	0	203
PL.37966	PL.37890	ABC	336 MCM AC	7.26Y	121.1	0.00	3.95	61.69	12	1287	387	96	0.02	0.0	4.660	0.005	0	0	0	203
PL.37968	PL.37966	ABC	336 MCM AC	7.26Y	121.1	0.00	3.95	61.69	12	1287	387	96	0.00	0.0	4.661	0.001	0	0	0	203
PL.37967	PL.37968	ABC	336 MCM AC	7.26Y	121.0	0.02	3.97	61.69	12	1287	387	96	0.13	0.0	4.701	0.040	12	3	1	203
PL.37965	PL.37967	ABC	336 MCM AC	7.26Y	121.0	0.01	3.98	61.12	12	1275	383	96	0.08	0.0	4.727	0.026	10	3	2	202
PL.37964	PL.37965	ABC	336 MCM AC	7.26Y	121.0	0.03	4.01	60.63	12	1265	380	96	0.23	0.0	4.802	0.075	14	4	2	200
PL.37963	PL.37964	ABC	336 MCM AC	7.26Y	121.0	0.02	4.04	59.95	12	1250	375	96	0.16	0.0	4.854	0.052	4	1	1	198
PL.37579	PL.37963	ABC	336 MCM AC	7.26Y	120.9	0.03	4.07	59.76	12	1246	374	96	0.21	0.0	4.924	0.071	11	3	1	197
PL.37578	PL.37579	ABC	336 MCM AC	7.25Y	120.9	0.03	4.10	59.23	11	1235	370	96	0.22	0.0	4.998	0.074	0	0	0	196
PL.37576	PL.37578	A	#2 ACSR	7.25Y	120.9	0.00	4.10	0.36	0	2	1	89	0.00	0.0	4.998	0.000	0	0	0	1
PD.6058	PL.37576	A	60QA	7.25Y	120.9	0.00	4.10	0.36	1	2	1	89	0.00	0.0	4.998	0.000	0	0	0	1
PL.37577	PD.6058	A	#2 ACSR	7.25Y	120.9	0.00	4.10	0.36	0	2	1	89	0.00	0.0	5.038	0.039	2	1	1	1
PL.37574	PL.37578	ABC	336 MCM AC	7.25Y	120.9	0.02	4.12	59.11	11	1232	369	96	0.15	0.0	5.048	0.050	0	0	0	195
PL.37569	PL.37574	ABC	336 MCM AC	7.25Y	120.9	0.02	4.15	59.11	11	1232	369	96	0.16	0.0	5.101	0.053	0	0	0	195
PL.37566	PL.37569	ABC	336 MCM AC	7.25Y	120.8	0.05	4.20	32.93	6	686	206	96	0.20	0.0	5.316	0.215	0	0	0	119
PL.37342	PL.37566	ABC	336 MCM AC	7.25Y	120.8	0.04	4.24	32.34	6	674	202	96	0.13	0.0	5.462	0.145	0	0	0	118
PL.61039	PL.37342	ABC	336 MCM AC	7.24Y	120.7	0.02	4.25	29.86	6	622	186	96	0.06	0.0	5.536	0.074	9	3	1	111

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.61038	PL.61039	ABC	336 MCM AC	7.24Y	120.7	0.06	4.32	29.43	6	613	183	96	0.20	0.0	5.818	0.282	4	1	2	110
PL.39309	PL.61038	ABC	336 MCM AC	7.24Y	120.7	0.00	4.32	29.22	6	608	182	96	0.00	0.0	5.819	0.001	0	0	0	108
PD.5246	PL.39309	ABC	60QA	7.24Y	120.7	0.00	4.32	29.22	49	608	182	96	0.00	0.0	5.819	0.001	0	0	0	108
PL.39308	PD.5246	ABC	336 MCM AC	7.24Y	120.7	0.01	4.33	29.22	6	608	182	96	0.03	0.0	5.860	0.041	0	0	0	108
PL.37564	PL.39308	ABC	336 MCM AC	7.24Y	120.7	0.01	4.34	29.22	6	608	182	96	0.03	0.0	5.902	0.043	10	3	2	108
PL.37563	PL.37564	ABC	336 MCM AC	7.24Y	120.6	0.04	4.37	28.73	6	598	179	96	0.11	0.0	6.064	0.162	0	0	0	106
PL.37561	PL.37563	A	6 A (CWC)	7.24Y	120.6	0.00	4.37	1.28	1	9	3	95	0.00	0.0	6.064	0.001	0	0	0	1
PD.5892	PL.37561	A	60QA	7.24Y	120.6	0.00	4.37	1.28	2	9	3	95	0.00	0.0	6.064	0.001	0	0	0	1
PL.37562	PD.5892	A	6 A (CWC)	7.24Y	120.6	0.00	4.37	1.28	1	9	3	95	0.00	0.0	6.101	0.037	9	3	1	1
PL.37560	PL.37563	ABC	336 MCM AC	7.24Y	120.6	0.02	4.39	28.31	5	589	176	96	0.05	0.0	6.142	0.078	9	3	1	105
PL.36769	PL.37560	ABC	336 MCM AC	7.24Y	120.6	0.03	4.41	27.86	5	580	173	96	0.08	0.0	6.267	0.125	3	1	2	104
PL.36768	PL.36769	ABC	336 MCM AC	7.23Y	120.6	0.03	4.44	27.71	5	576	172	96	0.08	0.0	6.393	0.126	0	0	0	102
PL.36767	PL.36768	ABC	336 MCM AC	7.23Y	120.5	0.02	4.47	27.71	5	576	172	96	0.08	0.0	6.511	0.118	6	2	1	102
PL.37549	PL.36767	ABC	336 MCM AC	7.23Y	120.5	0.00	4.47	27.43	5	570	170	96	0.01	0.0	6.533	0.022	0	0	0	101
PL.36747	PL.37549	ABC	336 MCM AC	7.23Y	120.5	0.00	4.47	27.43	5	570	170	96	0.01	0.0	6.553	0.020	0	0	0	101
PD.5908	PL.36747	ABC	280VWE	7.23Y	120.5	0.00	4.47	27.43	0	570	170	96	0.00	0.0	6.553	0.020	0	0	0	101
PL.38045	PD.5908	ABC	336 MCM AC	7.23Y	120.5	0.00	4.47	27.43	5	570	170	96	0.00	0.0	6.554	0.001	0	0	0	101
PL.36748	PL.38045	ABC	336 MCM AC	7.23Y	120.5	0.02	4.49	27.43	5	570	170	96	0.05	0.0	6.630	0.076	0	0	0	101
PL.38163	PL.36748	ABC	336 MCM AC	7.23Y	120.5	0.01	4.51	5.96	1	124	36	96	0.01	0.0	6.951	0.322	0	0	0	26
PL.38167	PL.38163	ABC	336 MCM AC	7.23Y	120.5	0.00	4.51	5.96	1	124	36	96	0.00	0.0	7.033	0.082	3	1	1	25
PL.38166	PL.38167	ABC	336 MCM AC	7.23Y	120.5	0.01	4.52	5.82	1	121	35	96	0.00	0.0	7.185	0.152	4	1	1	24
PL.38164	PL.38166	ABC	336 MCM AC	7.23Y	120.5	0.00	4.52	5.65	1	118	34	96	0.00	0.0	7.295	0.110	0	0	0	23
PL.38050	PL.38164	B	6 A (CWC)	7.23Y	120.5	0.03	4.55	13.40	10	93	27	96	0.02	0.0	7.336	0.041	0	0	0	15
PD.6089	PL.38050	B	50L	7.23Y	120.5	0.00	4.55	13.40	27	93	27	96	0.00	0.0	7.336	0.041	0	0	0	15
PL.38358	PD.6089	B	6 A (CWC)	7.22Y	120.4	0.04	4.58	13.40	10	93	27	96	0.03	0.0	7.404	0.069	13	4	2	15
PL.37870	PL.38358	B	6 A (CWC)	7.22Y	120.3	0.08	4.66	11.55	8	80	23	96	0.05	0.1	7.546	0.141	0	0	0	13
PL.37326	PL.37870	B	6 A (CWC)	7.22Y	120.3	0.00	4.66	1.53	1	11	3	96	0.00	0.0	7.607	0.061	11	3	2	2
PL.38359	PL.37870	B	6 A (CWC)	7.21Y	120.2	0.13	4.79	10.02	7	69	20	96	0.07	0.1	7.833	0.287	5	2	1	11
PL.38360	PL.38359	B	6 A (CWC)	7.21Y	120.1	0.07	4.85	8.54	6	59	17	96	0.03	0.1	8.005	0.173	0	0	0	9
PL.37672	PL.38360	B	#4 ACSR	7.21Y	120.1	0.00	4.85	0.00	0	0	0	100	0.00	0.0	8.054	0.049	0	0	0	0
PL.61403	PL.38360	B	#1/0 ACSR	7.21Y	120.1	0.00	4.85	0.00	0	0	0	100	0.00	0.0	8.047	0.042	0	0	1	1

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62828	PL.38360	B	6 A (CWC)	7.21Y	120.1	0.04	4.89	8.54	6	59	17	96	0.02	0.0	8.097	0.092	0	0	0	8
PL.62829	PL.62828	B	6 A (CWC)	7.21Y	120.1	0.02	4.91	6.77	5	47	14	96	0.01	0.0	8.172	0.075	0	0	0	6
PL.62831	PL.62829	B	#1/0 ACSR	7.21Y	120.1	0.00	4.91	1.38	1	10	3	96	0.00	0.0	8.175	0.003	0	0	0	1
PD.9135	PL.62831	B	15T	7.21Y	120.1	0.00	4.91	1.38	0	10	3	96	0.00	0.0	8.175	0.003	0	0	0	1
PL.61389	PD.9135	B	#1/0 ACSR	7.21Y	120.1	0.00	4.91	1.38	1	10	3	96	0.00	0.0	8.224	0.048	10	3	1	1
PL.62830	PL.62829	B	6 A (CWC)	7.20Y	120.1	0.04	4.95	5.40	4	37	11	96	0.01	0.0	8.321	0.149	3	1	1	5
PL.38361	PL.62830	B	6 A (CWC)	7.20Y	120.0	0.03	4.98	4.96	4	34	10	96	0.01	0.0	8.473	0.151	0	0	0	4
PL.37826	PL.38361	B	#4 ACSR	7.20Y	120.0	0.00	4.98	0.31	0	2	1	89	0.00	0.0	8.529	0.057	2	1	1	1
PL.38859	PL.38361	B	6 A (CWC)	7.20Y	120.0	0.03	5.02	4.65	3	32	9	96	0.01	0.0	8.657	0.184	8	2	1	3
PL.37437	PL.38859	B	6 A (CWC)	7.20Y	120.0	0.02	5.04	3.42	2	24	7	96	0.00	0.0	8.776	0.119	0	0	0	2
PL.38860	PL.37437	B	6 A (CWC)	7.19Y	119.9	0.09	5.13	3.42	2	24	7	96	0.01	0.1	9.551	0.775	11	3	1	2
PL.38861	PL.38860	B	6 A (CWC)	7.19Y	119.9	0.00	5.13	1.84	1	13	4	96	0.00	0.0	9.603	0.052	13	4	1	1
PL.38862	PL.38861	B	6 A (CWC)	7.19Y	119.9	0.00	5.13	0.00	0	0	0	100	0.00	0.0	9.632	0.029	0	0	0	0
PL.62832	PL.62828	B	#1/0 ACSR	7.21Y	120.1	0.00	4.89	1.77	1	12	4	95	0.00	0.0	8.152	0.055	12	4	2	2
PL.37671	PL.38359	B	#4 ACSR	7.21Y	120.2	0.00	4.79	0.72	1	5	1	98	0.00	0.0	7.956	0.124	5	1	1	1
PL.37473	PL.38164	ABC	336 MCM AC	7.23Y	120.5	0.00	4.52	1.18	0	25	7	96	0.00	0.0	7.359	0.065	0	0	0	8
PL.38365	PL.37473	ABC	336 MCM AC	7.23Y	120.5	0.00	4.52	1.18	0	25	7	96	0.00	0.0	7.532	0.173	0	0	0	8
PL.38863	PL.38365	A	#2 ACSR	7.23Y	120.5	0.00	4.52	0.74	0	5	1	98	0.00	0.0	7.533	0.001	0	0	0	1
PD.5240	PL.38863	A	60QA	7.23Y	120.5	0.00	4.52	0.74	1	5	1	98	0.00	0.0	7.533	0.001	0	0	0	1
PL.38864	PD.5240	A	#2 ACSR	7.23Y	120.5	0.00	4.52	0.74	0	5	1	98	0.00	0.0	7.589	0.056	5	1	1	1
PL.38364	PL.38365	ABC	336 MCM AC	7.23Y	120.5	0.00	4.52	0.94	0	20	6	96	0.00	0.0	7.606	0.073	0	0	0	7
PL.38366	PL.38364	A	6 A (CWC)	7.23Y	120.5	0.00	4.52	2.48	2	17	5	96	0.00	0.0	7.608	0.002	0	0	0	6
PD.6016	PL.38366	A	75QA	7.23Y	120.5	0.00	4.52	2.48	3	17	5	96	0.00	0.0	7.608	0.002	0	0	0	6
PL.38367	PD.6016	A	6 A (CWC)	7.23Y	120.5	0.01	4.53	2.48	2	17	5	96	0.00	0.0	7.706	0.098	2	1	1	6
PL.38368	PL.38367	A	6 A (CWC)	7.22Y	120.4	0.05	4.59	2.15	2	15	4	97	0.01	0.0	8.236	0.529	0	0	0	5
PL.38369	PL.38368	A	6 A (CWC)	7.22Y	120.4	0.01	4.59	2.15	2	15	4	97	0.00	0.0	8.301	0.065	0	0	0	5
PL.61410	PL.38369	A	6 A (CWC)	7.22Y	120.4	0.01	4.61	2.15	2	15	4	97	0.00	0.0	8.444	0.143	0	0	0	5
PL.61411	PL.61410	A	6 A (CWC)	7.22Y	120.4	0.02	4.62	2.14	2	15	4	97	0.00	0.0	8.598	0.153	0	0	0	4
PL.37876	PL.61411	A	#4 ACSR	7.22Y	120.4	0.00	4.62	0.87	1	6	2	95	0.00	0.0	8.661	0.063	6	2	2	2
PL.38370	PL.61411	A	6 A (CWC)	7.22Y	120.4	0.00	4.63	1.27	1	9	3	95	0.00	0.0	8.673	0.075	2	1	1	2
PL.38371	PL.38370	A	6 A (CWC)	7.22Y	120.4	0.01	4.63	0.99	1	7	2	96	0.00	0.0	8.983	0.311	7	2	1	1

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.61413	PL.61410	A	#1/0 ACSR	7.22Y	120.4	0.00	4.61	0.01	0	0	0	100	0.00	0.0	8.448	0.003	0	0	0	1
PD.9138	PL.61413	A	25T	7.22Y	120.4	0.00	4.61	0.01	0	0	0	100	0.00	0.0	8.448	0.003	0	0	0	1
PL.61414	PD.9138	A	#1/0 ACSR	7.22Y	120.4	0.00	4.61	0.01	0	0	0	100	0.00	0.0	8.498	0.050	0	0	0	1
PL.61412	PL.61414	A	1/0 AL URD	7.22Y	120.4	0.00	4.61	0.01	0	0	0	100	0.00	0.0	8.579	0.081	0	0	1	1
PL.38440	PL.38364	ABC	336 MCM AC	7.23Y	120.5	0.00	4.52	0.11	0	2	1	89	0.00	0.0	7.726	0.120	2	1	1	1
PL.38655	PL.38440	ABC	336 MCM AC	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	7.755	0.029	0	0	0	0
PL.38656	PL.38655	C	#4 ACSR	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	7.755	0.001	0	0	0	0
PD.5245	PL.38656	C	75QA	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	7.755	0.001	0	0	0	0
PL.38657	PD.5245	C	#4 ACSR	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	7.823	0.067	0	0	0	0
PL.37324	PL.38655	ABC	336 MCM AC	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	7.811	0.056	0	0	0	0
PL.37323	PL.37324	ABC	336 MCM AC	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	7.897	0.086	0	0	0	0
PL.62171	PL.37323	ABC	336 MCM AC	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	8.365	0.468	0	0	0	0
PD.9281-B	PL.62171	ABC	Open	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	8.365	0.468	0	0	0	0
PL.38048	PL.38163	A	#4 ACSR	7.23Y	120.5	0.00	4.51	0.00	0	0	0	100	0.00	0.0	6.955	0.004	0	0	0	1
PD.5244	PL.38048	A	50QA	7.23Y	120.5	0.00	4.51	0.00	0	0	0	100	0.00	0.0	6.955	0.004	0	0	0	1
PL.38049	PD.5244	A	#4 ACSR	7.23Y	120.5	0.00	4.51	0.00	0	0	0	100	0.00	0.0	6.995	0.040	0	0	1	1
PL.58009	PL.36748	A	#4 ACSR	7.22Y	120.3	0.21	4.70	64.41	50	446	133	96	0.71	0.2	6.701	0.071	0	0	0	75
PL.58011	PL.58009	A	#4 ACSR	7.22Y	120.3	0.01	4.70	64.41	50	446	133	96	0.02	0.0	6.703	0.002	0	0	0	75
PD.8398	PL.58011	A	100L	7.22Y	120.3	0.00	4.70	64.41	64	446	133	96	0.00	0.0	6.703	0.002	0	0	0	75
PL.58013	PD.8398	A	#4 ACSR	7.19Y	119.9	0.43	5.13	64.41	50	446	133	96	1.47	0.3	6.851	0.148	0	0	0	75
PL.58012	PL.58013	A	#4 ACSR	7.17Y	119.6	0.32	5.45	62.09	48	428	127	96	1.05	0.2	6.965	0.114	0	0	0	74
PL.37414	PL.58012	A	#4 ACSR	7.14Y	119.0	0.56	6.00	62.09	48	427	127	96	1.86	0.4	7.166	0.201	0	0	0	74
PL.38079	PL.37414	A	#4 ACSR	7.13Y	118.8	0.22	6.22	57.17	44	391	116	96	0.67	0.2	7.252	0.086	7	2	1	69
PL.36872	PL.38079	A	#4 ACSR	7.13Y	118.8	0.00	6.22	1.51	1	10	3	96	0.00	0.0	7.290	0.038	10	3	2	2
PL.38078	PL.38079	A	#4 ACSR	7.12Y	118.7	0.09	6.31	54.69	42	374	111	96	0.26	0.1	7.288	0.036	0	0	0	66
REG43	PL.38078	A	76.2 KVA	7.55Y	125.8	-7.07	-0.76	54.69	55	373	110	96	percent Boost= 5.62 Tap= 9.0							66
PL.38077	REG43	A	#4 ACSR	7.54Y	125.6	0.12	-0.65	48.84	38	353	105	96	0.30	0.1	7.341	0.053	0	0	1	64
PL.37899	PL.38077	A	#4 ACSR	7.54Y	125.6	0.00	-0.65	0.00	0	0	0	100	0.00	0.0	7.341	0.000	0	0	0	0
PL.38075	PL.38077	A	#4 ACSR	7.52Y	125.3	0.38	-0.26	48.77	38	353	104	96	0.99	0.3	7.521	0.179	13	4	1	63
PL.38076	PL.38075	A	#4 ACSR	7.50Y	125.0	0.25	-0.01	46.17	36	333	98	96	0.63	0.2	7.644	0.123	0	0	0	61
PL.38074	PL.38076	A	#4 ACSR	7.49Y	124.9	0.12	0.11	46.17	36	332	98	96	0.30	0.1	7.703	0.059	2	0	2	61

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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38073	PL.38074	A	#4 ACSR	7.49Y	124.8	0.13	0.25	45.95	35	330	97	96	0.33	0.1	7.767	0.065	0	0	0	59
PL.63070	PL.38073	A	#4 ACSR	7.48Y	124.6	0.16	0.40	45.95	35	330	97	96	0.39	0.1	7.844	0.076	0	0	0	59
PL.63071	PL.63070	A	#4 ACSR	7.47Y	124.5	0.14	0.55	44.25	34	317	93	96	0.33	0.1	7.917	0.073	12	3	1	58
PL.37587	PL.63071	A	#4 ACSR	7.46Y	124.3	0.19	0.73	42.60	33	305	90	96	0.43	0.1	8.015	0.098	0	0	0	57
PL.37584	PL.37587	A	#4 ACSR	7.46Y	124.3	0.02	0.75	5.17	4	37	11	96	0.00	0.0	8.083	0.068	0	0	1	5
PL.37586	PL.37584	A	#4 ACSR	7.45Y	124.2	0.01	0.76	5.13	4	37	11	96	0.00	0.0	8.148	0.065	12	4	1	4
PL.37896	PL.37586	A	#4 ACSR	7.45Y	124.2	0.00	0.77	3.44	3	25	7	96	0.00	0.0	8.184	0.036	13	4	1	3
PL.37897	PL.37896	A	#4 ACSR	7.45Y	124.2	0.00	0.77	1.67	1	12	3	97	0.00	0.0	8.267	0.083	12	3	1	2
PL.38422	PL.37897	A	#4 ACSR	7.45Y	124.2	0.00	0.77	0.04	0	0	0	100	0.00	0.0	8.314	0.048	0	0	1	1
PL.37585	PL.37587	A	#4 ACSR	7.44Y	124.0	0.25	0.99	37.43	29	268	79	96	0.51	0.2	8.166	0.151	0	0	0	52
PL.37582	PL.37585	A	6 A (CWC)	7.44Y	124.0	0.00	0.99	10.43	7	75	22	96	0.00	0.0	8.169	0.003	0	0	0	15
PD.5976	PL.37582	A	40QA	7.44Y	124.0	0.00	0.99	10.43	26	75	22	96	0.00	0.0	8.169	0.003	0	0	0	15
PL.38162	PD.5976	A	6 A (CWC)	7.43Y	123.9	0.15	1.14	10.43	7	75	22	96	0.08	0.1	8.485	0.317	0	0	1	15
PL.38165	PL.38162	A	6 A (CWC)	7.43Y	123.8	0.09	1.23	10.43	7	74	22	96	0.05	0.1	8.665	0.179	0	0	0	14
PL.38372	PL.38165	A	6 A (CWC)	7.43Y	123.8	0.01	1.24	8.16	6	58	17	96	0.01	0.0	8.703	0.038	5	1	1	13
PL.38373	PL.38372	A	6 A (CWC)	7.42Y	123.7	0.05	1.29	7.51	5	54	16	96	0.02	0.0	8.863	0.161	4	1	1	12
PL.38220	PL.38373	A	6 A (CWC)	7.42Y	123.6	0.08	1.37	5.22	4	37	11	96	0.02	0.1	9.181	0.318	0	0	0	9
PL.63052	PL.38220	A	#1/0 ACSR	7.42Y	123.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	9.211	0.030	0	0	0	1
PL.63053	PL.63052	A	#1/0 ACSR	7.42Y	123.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	9.259	0.048	0	0	1	1
PL.37656	PL.38220	A	6 A (CWC)	7.42Y	123.6	0.01	1.37	1.45	1	10	3	96	0.00	0.0	9.279	0.098	1	0	1	3
PL.63371	PL.37656	A	#1/0 ACSR	7.42Y	123.6	0.00	1.38	1.31	1	9	3	95	0.00	0.0	9.321	0.041	9	3	2	2
PL.38221	PL.38220	A	6 A (CWC)	7.42Y	123.6	0.04	1.40	3.77	3	27	8	96	0.01	0.0	9.393	0.211	0	0	0	5
PL.37349	PL.38221	A	6 A (CWC)	7.42Y	123.6	0.00	1.41	1.30	1	9	3	95	0.00	0.0	9.428	0.035	9	3	1	1
PL.38376	PL.38221	A	6 A (CWC)	7.42Y	123.6	0.00	1.41	2.47	2	18	5	96	0.00	0.0	9.411	0.018	1	0	1	4
PL.38222	PL.38376	A	6 A (CWC)	7.42Y	123.6	0.01	1.42	2.32	2	17	5	96	0.00	0.0	9.494	0.083	0	0	0	3
PL.38378	PL.38222	A	6 A (CWC)	7.41Y	123.6	0.01	1.42	1.93	1	14	4	96	0.00	0.0	9.571	0.077	6	2	1	2
PL.38377	PL.38378	A	6 A (CWC)	7.41Y	123.6	0.01	1.43	1.04	1	7	2	96	0.00	0.0	9.718	0.146	0	0	0	1
PL.38379	PL.38377	A	6 A (CWC)	7.41Y	123.6	0.00	1.43	1.04	1	7	2	96	0.00	0.0	9.838	0.121	7	2	1	1
PL.37108	PL.38222	A	6 A (CWC)	7.42Y	123.6	0.00	1.42	0.39	0	3	1	95	0.00	0.0	9.533	0.039	3	1	1	1
PL.37788	PL.38373	A	#4 ACSR	7.42Y	123.7	0.00	1.29	0.00	0	0	0	100	0.00	0.0	8.950	0.087	0	0	0	0
PL.38374	PL.38373	A	#4 ACSR	7.42Y	123.7	0.00	1.30	1.66	1	12	3	97	0.00	0.0	8.905	0.041	0	0	0	2

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38375	PL.38374	A	#4 ACSR	7.42Y	123.7	0.00	1.30	1.66	1	12	3	97	0.00	0.0	9.004	0.099	12	3	2	2
PL.37375	PL.38165	A	#1/0 ACSR	7.43Y	123.8	0.00	1.23	2.26	1	16	5	95	0.00	0.0	8.811	0.146	16	5	1	1
PL.37583	PL.37585	A	#4 ACSR	7.44Y	123.9	0.07	1.06	27.00	21	193	57	96	0.10	0.1	8.226	0.060	0	0	0	37
PL.57309	PL.37583	A	#4 ACSR	7.44Y	123.9	0.00	1.06	27.00	21	193	57	96	0.01	0.0	8.229	0.003	0	0	0	37
PD.8274	PL.57309	A	60QA	7.44Y	123.9	0.00	1.06	27.00	45	193	57	96	0.00	0.0	8.229	0.003	0	0	0	37
PL.57310	PD.8274	A	#4 ACSR	7.43Y	123.9	0.08	1.14	27.00	21	193	57	96	0.11	0.1	8.293	0.064	1	0	1	37
PL.37895	PL.57310	A	#4 ACSR	7.43Y	123.8	0.10	1.24	26.89	21	192	56	96	0.14	0.1	8.375	0.082	11	3	1	36
PL.38571	PL.37895	A	#4 ACSR	7.42Y	123.7	0.09	1.32	25.39	20	181	53	96	0.12	0.1	8.450	0.075	2	0	1	35
PL.38570	PL.38571	A	#4 ACSR	7.42Y	123.6	0.10	1.42	25.17	19	179	53	96	0.13	0.1	8.535	0.085	2	1	1	34
PL.38569	PL.38570	A	#4 ACSR	7.41Y	123.4	0.14	1.56	24.87	19	177	52	96	0.19	0.1	8.667	0.132	10	3	1	33
PL.38568	PL.38569	A	#4 ACSR	7.39Y	123.2	0.24	1.80	23.42	18	166	49	96	0.30	0.2	8.897	0.231	1	0	1	32
PL.37852	PL.38568	A	#4 ACSR	7.39Y	123.1	0.07	1.87	23.31	18	165	48	96	0.09	0.1	8.965	0.068	0	0	0	31
PL.37250	PL.37852	A	#4 ACSR	7.39Y	123.1	0.00	1.87	0.07	0	0	0	100	0.00	0.0	9.049	0.084	0	0	1	1
PL.37851	PL.37852	A	#4 ACSR	7.38Y	122.9	0.21	2.08	23.25	18	165	48	96	0.26	0.2	9.163	0.198	0	0	0	30
PL.37849	PL.37851	A	#1/0 ACSR	7.38Y	122.9	0.00	2.08	1.42	1	10	3	96	0.00	0.0	9.242	0.079	0	0	0	1
PL.37850	PL.37849	A	#1/0 ACSR	7.38Y	122.9	0.00	2.08	1.42	1	10	3	96	0.00	0.0	9.320	0.078	0	0	0	1
PL.38567	PL.37850	A	#1/0 ACSR	7.38Y	122.9	0.00	2.08	1.42	1	10	3	96	0.00	0.0	9.347	0.026	10	3	1	1
PL.38188	PL.37851	A	#4 ACSR	7.36Y	122.7	0.21	2.29	21.82	17	154	45	96	0.25	0.2	9.382	0.219	0	0	0	29
PL.64231	PL.38188	A	#4 ACSR	7.36Y	122.6	0.07	2.36	20.93	16	148	43	96	0.07	0.1	9.453	0.071	0	0	0	28
PL.64017	PL.64231	A	#4 ACSR	7.36Y	122.6	0.00	2.36	1.66	1	12	3	97	0.00	0.0	9.549	0.096	12	3	1	1
PL.64230	PL.64231	A	#4 ACSR	7.35Y	122.6	0.09	2.45	19.27	15	136	40	96	0.09	0.1	9.575	0.122	28	8	1	27
PL.38185	PL.64230	A	#4 ACSR	7.35Y	122.5	0.05	2.50	15.24	12	108	31	96	0.04	0.0	9.651	0.077	0	0	0	26
PL.63073	PL.38185	A	#4 ACSR	7.35Y	122.4	0.06	2.57	14.42	11	102	30	96	0.05	0.0	9.751	0.099	0	0	0	22
PL.63074	PL.63073	A	#4 ACSR	7.35Y	122.4	0.00	2.57	14.42	11	102	30	96	0.00	0.0	9.751	0.000	6	2	1	22
PL.64483	PL.63074	A	#4 ACSR	7.34Y	122.4	0.02	2.58	13.55	10	96	28	96	0.01	0.0	9.781	0.030	0	0	0	21
PL.64485	PL.64483	A	#1/0 ACSR	7.34Y	122.4	0.00	2.59	1.00	0	7	2	96	0.00	0.0	9.841	0.060	7	2	1	1
PL.64484	PL.64483	A	#4 ACSR	7.34Y	122.4	0.05	2.64	12.55	10	89	26	96	0.03	0.0	9.873	0.092	3	1	1	20
PL.37875	PL.64484	A	#4 ACSR	7.34Y	122.3	0.10	2.74	11.26	9	79	23	96	0.06	0.1	10.078	0.205	0	0	0	18
PL.38181	PL.37875	A	#4 ACSR	7.34Y	122.3	0.01	2.74	2.52	2	18	5	96	0.00	0.0	10.135	0.057	8	2	3	5
PL.38182	PL.38181	A	#4 ACSR	7.34Y	122.3	0.00	2.75	1.45	1	10	3	96	0.00	0.0	10.256	0.121	10	3	2	2
PL.38177	PL.37875	A	#4 ACSR	7.33Y	122.2	0.06	2.80	8.52	7	60	17	96	0.03	0.0	10.240	0.162	0	0	0	12

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37295	PL.38177	A	#4 ACSR	7.33Y	122.2	0.00	2.80	0.65	0	5	1	98	0.00	0.0	10.405	0.165	0	0	0	1
PL.38408	PL.37295	A	#4 ACSR	7.33Y	122.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	10.724	0.319	0	0	0	0
PL.37296	PL.37295	A	#4 ACSR	7.33Y	122.2	0.00	2.81	0.65	0	5	1	98	0.00	0.0	10.450	0.045	5	1	1	1
PL.38557	PL.37296	A	#4 ACSR	7.33Y	122.2	0.00	2.81	0.00	0	0	0	100	0.00	0.0	10.518	0.068	0	0	0	0
PL.38558	PL.38557	A	#4 ACSR	7.33Y	122.2	0.00	2.81	0.00	0	0	0	100	0.00	0.0	10.578	0.059	0	0	0	0
PL.38559	PL.38177	A	#4 ACSR	7.33Y	122.2	0.03	2.83	7.87	6	55	16	96	0.01	0.0	10.317	0.077	0	0	0	11
PL.37738	PL.38559	A	#4 ACSR	7.33Y	122.2	0.00	2.83	0.00	0	0	0	100	0.00	0.0	10.360	0.044	0	0	1	1
PL.38560	PL.38559	A	#4 ACSR	7.33Y	122.1	0.02	2.85	7.87	6	55	16	96	0.01	0.0	10.386	0.069	0	0	0	10
PL.38563	PL.38560	A	#4 ACSR	7.33Y	122.1	0.04	2.89	6.59	5	46	13	96	0.01	0.0	10.532	0.146	2	1	1	9
PL.38561	PL.38563	A	#4 ACSR	7.33Y	122.1	0.00	2.90	6.25	5	44	13	96	0.00	0.0	10.555	0.024	24	7	4	8
PL.38562	PL.38561	A	#4 ACSR	7.33Y	122.1	0.00	2.90	2.85	2	20	6	96	0.00	0.0	10.568	0.013	0	0	0	4
PL.38564	PL.38562	A	#4 ACSR	7.33Y	122.1	0.00	2.90	2.85	2	20	6	96	0.00	0.0	10.595	0.027	7	2	1	4
PL.38565	PL.38564	A	#4 ACSR	7.33Y	122.1	0.00	2.91	1.87	1	13	4	96	0.00	0.0	10.662	0.067	5	1	1	3
PL.57282	PL.38565	A	#4 ACSR	7.33Y	122.1	0.00	2.91	1.23	1	9	3	95	0.00	0.0	10.703	0.041	9	3	2	2
PL.37348	PL.38560	A	#4 ACSR	7.33Y	122.1	0.00	2.85	1.28	1	9	3	95	0.00	0.0	10.437	0.051	9	3	1	1
PL.38178	PL.37875	A	#4 ACSR	7.34Y	122.3	0.00	2.74	0.22	0	2	0	100	0.00	0.0	10.157	0.079	2	0	1	1
PL.38179	PL.38178	A	#4 ACSR	7.34Y	122.3	0.00	2.74	0.00	0	0	0	100	0.00	0.0	10.235	0.078	0	0	0	0
PL.38180	PL.38179	A	#4 ACSR	7.34Y	122.3	0.00	2.74	0.00	0	0	0	100	0.00	0.0	10.279	0.045	0	0	0	0
PL.37181	PL.64484	A	#4 ACSR	7.34Y	122.4	0.00	2.64	0.86	1	6	2	95	0.00	0.0	9.965	0.092	0	0	0	1
PL.37182	PL.37181	A	#4 ACSR	7.34Y	122.4	0.00	2.64	0.86	1	6	2	95	0.00	0.0	10.000	0.035	6	2	1	1
PL.37111	PL.38185	A	#4 ACSR	7.35Y	122.5	0.00	2.50	0.82	1	6	2	95	0.00	0.0	9.718	0.067	6	2	2	4
PL.38183	PL.37111	A	#4 ACSR	7.35Y	122.5	0.00	2.50	0.01	0	0	0	100	0.00	0.0	9.797	0.079	0	0	1	2
PL.38184	PL.38183	A	#4 ACSR	7.35Y	122.5	0.00	2.50	0.01	0	0	0	100	0.00	0.0	9.844	0.047	0	0	1	1
PL.38186	PL.64230	A	#4 ACSR	7.35Y	122.6	0.00	2.45	0.00	0	0	0	100	0.00	0.0	9.658	0.084	0	0	0	0
PL.38187	PL.38186	A	#4 ACSR	7.35Y	122.6	0.00	2.45	0.00	0	0	0	100	0.00	0.0	9.690	0.032	0	0	0	0
PL.37351	PL.38188	A	#4 ACSR	7.36Y	122.7	0.00	2.29	0.89	1	6	2	95	0.00	0.0	9.466	0.084	6	2	1	1
PL.63072	PL.63070	A	#1/0 ACSR	7.48Y	124.6	0.00	0.40	1.71	1	12	4	95	0.00	0.0	7.892	0.048	12	4	1	1
PL.37712	PL.38075	A	#4 ACSR	7.52Y	125.3	0.00	-0.26	0.76	1	5	2	93	0.00	0.0	7.675	0.154	5	2	1	1
PL.37203	REG43	A	#4 ACSR	7.55Y	125.8	0.01	-0.75	2.77	2	20	6	96	0.00	0.0	7.422	0.133	20	6	2	2
PL.38080	PL.37414	A	#4 ACSR	7.14Y	119.0	0.00	6.01	3.29	3	23	7	96	0.00	0.0	7.216	0.050	18	5	2	3
PL.38081	PL.38080	A	#4 ACSR	7.14Y	119.0	0.00	6.01	0.67	1	5	1	98	0.00	0.0	7.256	0.040	5	1	1	1

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37415	PL.37414	A	#4 ACSR	7.14Y	119.0	0.01	6.01	1.62	1	11	3	96	0.00	0.0	7.340	0.174	6	2	1	2
PL.36746	PL.37415	A	#4 ACSR	7.14Y	119.0	0.00	6.01	0.70	1	5	1	98	0.00	0.0	7.386	0.046	5	1	1	1
PL.58010	PL.58013	A	#4 ACSR	7.19Y	119.9	0.01	5.13	2.33	2	16	5	95	0.00	0.0	6.966	0.115	16	5	1	1
PL.37565	PL.37342	A	6 A (CWC)	7.25Y	120.8	0.00	4.24	7.45	5	52	15	96	0.00	0.0	5.463	0.001	0	0	0	7
PD.6078	PL.37565	A	60QA	7.25Y	120.8	0.00	4.24	7.45	12	52	15	96	0.00	0.0	5.463	0.001	0	0	0	7
PL.64233	PD.6078	A	6 A (CWC)	7.25Y	120.8	0.01	4.24	7.45	5	52	15	96	0.00	0.0	5.478	0.015	0	0	0	7
PL.64014	PL.64233	A	6 A (CWC)	7.24Y	120.7	0.01	4.25	2.84	2	20	6	96	0.00	0.0	5.532	0.054	0	0	0	5
PL.64015	PL.64014	A	6 A (CWC)	7.24Y	120.7	0.01	4.26	2.84	2	20	6	96	0.00	0.0	5.597	0.065	14	4	3	5
PL.64027	PL.64015	A	6 A (CWC)	7.24Y	120.7	0.00	4.26	0.77	1	5	2	93	0.00	0.0	5.637	0.039	5	2	2	2
PL.64013	PL.64014	A	#2 ACSR	7.24Y	120.7	0.00	4.25	0.00	0	0	0	100	0.00	0.0	5.686	0.154	0	0	0	0
PL.64232	PL.64233	A	6 A (CWC)	7.25Y	120.8	0.00	4.24	4.62	3	32	9	96	0.00	0.0	5.494	0.015	32	9	2	2
PL.37567	PL.37566	A	#1/0 ACSR	7.25Y	120.8	0.00	4.20	1.77	1	12	4	95	0.00	0.0	5.322	0.006	0	0	0	1
PD.5237	PL.37567	A	60QA	7.25Y	120.8	0.00	4.20	1.77	3	12	4	95	0.00	0.0	5.322	0.006	0	0	0	1
PL.37568	PD.5237	A	#1/0 ACSR	7.25Y	120.8	0.00	4.20	1.77	1	12	4	95	0.00	0.0	5.376	0.054	12	4	1	1
PL.37110	PL.37569	B	#4 ACSR	7.25Y	120.8	0.02	4.17	78.48	60	545	163	96	0.07	0.0	5.106	0.005	0	0	0	75
PL.37572	PL.37110	B	#4 ACSR	7.25Y	120.8	0.00	4.17	78.48	60	545	162	96	0.01	0.0	5.107	0.001	0	0	0	75
PD.6090	PL.37572	B	140L	7.25Y	120.8	0.00	4.17	78.48	56	545	162	96	0.00	0.0	5.107	0.001	0	0	0	75
PL.37573	PD.6090	B	#4 ACSR	7.24Y	120.6	0.18	4.35	78.48	60	545	162	96	0.77	0.1	5.160	0.053	3	1	1	75
PL.64225	PL.37573	B	6 A (CWC)	7.20Y	120.0	0.66	5.02	77.17	55	535	159	96	2.70	0.5	5.346	0.186	0	0	0	72
PL.64025	PL.64225	B	6 A (CWC)	7.18Y	119.7	0.30	5.32	77.17	55	533	158	96	1.23	0.2	5.432	0.085	0	0	0	71
PL.64018	PL.64025	B	6 A (CWC)	7.14Y	119.0	0.69	6.01	74.55	53	513	152	96	2.72	0.5	5.635	0.203	6	2	1	69
PL.64019	PL.64018	B	6 A (CWC)	7.12Y	118.7	0.24	6.25	73.69	53	505	148	96	0.95	0.2	5.707	0.072	0	0	0	68
PL.64255	PL.64019	B	6 A (CWC)	7.12Y	118.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	5.774	0.067	0	0	0	0
PL.64256	PL.64019	B	#4 ACSR	7.12Y	118.7	0.07	6.32	17.05	13	117	34	96	0.06	0.1	5.794	0.087	0	0	0	11
PL.37315	PL.64256	B	#4 ACSR	7.12Y	118.6	0.04	6.36	14.49	11	99	29	96	0.03	0.0	5.851	0.057	0	0	0	9
PL.38846	PL.37315	B	#4 ACSR	7.12Y	118.6	0.04	6.39	14.49	11	99	29	96	0.03	0.0	5.906	0.056	0	0	0	9
PL.37405	PL.38846	B	#4 ACSR	7.12Y	118.6	0.00	6.39	1.06	1	7	2	96	0.00	0.0	5.986	0.080	7	2	1	1
PL.38603	PL.38846	B	#4 ACSR	7.12Y	118.6	0.01	6.41	6.25	5	43	12	96	0.00	0.0	5.958	0.051	0	0	0	4
PL.38604	PL.38603	B	#4 ACSR	7.11Y	118.6	0.01	6.42	6.25	5	43	12	96	0.00	0.0	6.016	0.058	30	9	3	4
PL.38605	PL.38604	B	#4 ACSR	7.11Y	118.6	0.00	6.42	1.80	1	12	4	95	0.00	0.0	6.070	0.054	12	4	1	1
PL.36730	PL.38846	B	#4 ACSR	7.12Y	118.6	0.02	6.41	7.19	6	49	14	96	0.01	0.0	5.980	0.074	8	2	1	4

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38606	PL.36730	B	#4 ACSR	7.11Y	118.6	0.02	6.43	5.96	5	41	12	96	0.00	0.0	6.049	0.069	14	4	1	3
PL.37841	PL.38606	B	#4 ACSR	7.11Y	118.6	0.01	6.44	3.95	3	27	8	96	0.00	0.0	6.114	0.065	16	5	1	2
PL.38607	PL.37841	B	#4 ACSR	7.11Y	118.6	0.00	6.44	1.56	1	11	3	96	0.00	0.0	6.137	0.023	0	0	0	1
PL.38608	PL.38607	B	#4 ACSR	7.11Y	118.6	0.00	6.44	1.56	1	11	3	96	0.00	0.0	6.210	0.073	11	3	1	1
PL.37660	PL.64256	B	#4 ACSR	7.12Y	118.7	0.00	6.32	2.56	2	17	5	96	0.00	0.0	5.820	0.026	0	0	0	2
PL.36721	PL.37660	B	#1/0 ACSR	7.12Y	118.7	0.00	6.32	0.79	0	5	2	93	0.00	0.0	5.871	0.051	5	2	1	1
PL.60791	PL.37660	B	#4 ACSR	7.12Y	118.7	0.00	6.32	1.77	1	12	4	95	0.00	0.0	5.873	0.053	12	4	1	1
PL.64257	PL.64019	B	#4 ACSR	7.11Y	118.5	0.24	6.49	56.63	44	387	114	96	0.71	0.2	5.799	0.093	0	0	0	57
PL.38843	PL.64257	B	#4 ACSR	7.10Y	118.3	0.19	6.67	54.67	42	373	109	96	0.54	0.1	5.875	0.076	0	0	3	56
REG40	PL.38843	B	76.2 KVA	7.52Y	125.4	-7.05	-0.38	54.60	55	372	109	96	percent Boost= 0.00 Tap= 0.0							53
PL.37717	REG40	B	#4 ACSR	7.52Y	125.4	0.00	-0.38	0.39	0	3	1	95	0.00	0.0	5.966	0.091	3	1	1	1
PL.38844	REG40	B	#4 ACSR	7.52Y	125.3	0.09	-0.29	51.15	39	369	108	96	0.25	0.1	5.916	0.041	3	1	1	52
PL.38845	PL.38844	B	#4 ACSR	7.50Y	125.0	0.28	-0.01	50.72	39	366	107	96	0.76	0.2	6.039	0.123	0	0	0	51
PL.64002	PL.38845	B	#4 ACSR	7.49Y	124.8	0.19	0.18	41.75	32	301	88	96	0.42	0.1	6.140	0.101	0	0	0	44
PL.64009	PL.64002	B	6 A (CWC)	7.49Y	124.8	0.00	0.18	12.24	9	88	26	96	0.00	0.0	6.143	0.003	0	0	0	14
PD.9511	PL.64009	B	25T	7.49Y	124.8	0.00	0.18	12.24	0	88	26	96	0.00	0.0	6.143	0.003	0	0	0	14
PL.64153	PD.9511	B	6 A (CWC)	7.48Y	124.7	0.08	0.27	12.24	9	88	26	96	0.05	0.1	6.294	0.151	3	1	1	14
PL.64037	PL.64153	B	6 A (CWC)	7.48Y	124.7	0.02	0.29	10.37	7	74	22	96	0.01	0.0	6.343	0.049	12	3	1	12
PL.64038	PL.64037	B	6 A (CWC)	7.48Y	124.7	0.03	0.31	8.70	6	63	18	96	0.01	0.0	6.412	0.070	10	3	2	11
PL.64152	PL.64038	B	6 A (CWC)	7.48Y	124.7	0.01	0.32	7.27	5	52	15	96	0.00	0.0	6.444	0.032	0	0	0	9
PL.64239	PL.64152	B	6 A (CWC)	7.48Y	124.6	0.07	0.40	3.33	2	24	7	96	0.01	0.1	6.924	0.480	0	0	0	7
PL.38193	PL.64239	B	6 A (CWC)	7.47Y	124.6	0.03	0.42	2.99	2	21	6	96	0.00	0.0	7.111	0.187	0	0	0	6
PL.38196	PL.38193	B	6 A (CWC)	7.47Y	124.6	0.02	0.45	2.63	2	19	5	97	0.00	0.0	7.301	0.190	0	0	0	5
PL.38197	PL.38196	B	6 A (CWC)	7.47Y	124.5	0.04	0.49	2.63	2	19	5	97	0.01	0.0	7.623	0.322	0	0	0	5
PL.38198	PL.38197	B	6 A (CWC)	7.47Y	124.5	0.00	0.49	0.92	1	7	2	96	0.00	0.0	7.663	0.039	0	0	0	1
PL.38199	PL.38198	B	6 A (CWC)	7.47Y	124.5	0.00	0.49	0.92	1	7	2	96	0.00	0.0	7.697	0.034	7	2	1	1
PL.38200	PL.38197	B	6 A (CWC)	7.47Y	124.5	0.04	0.53	1.71	1	12	4	95	0.00	0.0	8.190	0.566	0	0	0	4
PL.38853	PL.38200	B	6 A (CWC)	7.47Y	124.5	0.00	0.53	1.71	1	12	4	95	0.00	0.0	8.234	0.044	0	0	0	4
PL.36754	PL.38853	B	6 A (CWC)	7.47Y	124.5	0.01	0.54	0.50	0	4	1	97	0.00	0.0	8.646	0.412	0	0	0	2
PL.36755	PL.36754	B	6 A (CWC)	7.47Y	124.5	0.00	0.54	0.50	0	4	1	97	0.00	0.0	8.714	0.068	0	0	0	2
PL.38854	PL.36755	B	6 A (CWC)	7.47Y	124.5	0.00	0.55	0.50	0	4	1	97	0.00	0.0	8.784	0.070	2	1	1	2

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38855	PL.38854	B	6 A (CWC)	7.47Y	124.5	0.00	0.55	0.24	0	2	0	100	0.00	0.0	8.853	0.068	2	0	1	1
PL.37309	PL.38853	B	6 A (CWC)	7.47Y	124.5	0.00	0.53	0.03	0	0	0	100	0.00	0.0	8.275	0.040	0	0	1	1
PL.37836	PL.38853	B	#2 ACSR	7.47Y	124.5	0.01	0.54	1.18	1	8	2	97	0.00	0.0	8.595	0.361	8	2	1	1
PL.38194	PL.38193	B	6 A (CWC)	7.47Y	124.6	0.00	0.42	0.36	0	3	1	95	0.00	0.0	7.210	0.099	3	1	1	1
PL.38195	PL.38194	B	6 A (CWC)	7.47Y	124.6	0.00	0.42	0.00	0	0	0	100	0.00	0.0	7.470	0.260	0	0	0	0
PL.37406	PL.64239	B	6 A (CWC)	7.48Y	124.6	0.00	0.40	0.34	0	2	1	89	0.00	0.0	7.017	0.093	2	1	1	1
PL.64238	PL.64152	B	6 A (CWC)	7.48Y	124.6	0.03	0.35	3.94	3	28	8	96	0.01	0.0	6.590	0.146	0	0	0	2
PL.37417	PL.64238	B	#2 ACSR	7.48Y	124.6	0.00	0.35	1.61	1	12	3	97	0.00	0.0	6.620	0.030	12	3	1	1
PL.38192	PL.64238	B	6 A (CWC)	7.48Y	124.6	0.01	0.36	2.32	2	17	5	96	0.00	0.0	6.800	0.210	17	5	1	1
PL.64022	PL.64153	B	6 A (CWC)	7.48Y	124.7	0.00	0.27	1.51	1	11	3	96	0.00	0.0	6.373	0.079	11	3	1	1
PL.64001	PL.64002	B	#4 ACSR	7.48Y	124.7	0.12	0.30	29.50	23	212	62	96	0.19	0.1	6.230	0.091	0	0	0	30
PL.38852	PL.64001	B	#4 ACSR	7.48Y	124.6	0.06	0.36	25.56	20	184	54	96	0.08	0.0	6.288	0.057	16	5	1	28
PL.38189	PL.38852	B	#4 ACSR	7.48Y	124.6	0.05	0.41	23.29	18	167	49	96	0.06	0.0	6.336	0.048	0	0	0	27
PL.38849	PL.38189	B	6 A (CWC)	7.47Y	124.6	0.02	0.44	7.56	5	54	16	96	0.01	0.0	6.419	0.083	21	6	1	8
PL.37842	PL.38849	B	6 A (CWC)	7.47Y	124.5	0.02	0.45	4.69	3	34	10	96	0.00	0.0	6.491	0.072	0	0	0	7
PL.57945	PL.37842	B	6 A (CWC)	7.47Y	124.5	0.01	0.47	4.69	3	34	10	96	0.00	0.0	6.549	0.058	0	0	0	7
PL.57947	PL.57945	B	6 A (CWC)	7.47Y	124.5	0.00	0.47	2.95	2	21	6	96	0.00	0.0	6.572	0.023	2	1	1	6
PL.57781	PL.57947	B	6 A (CWC)	7.47Y	124.5	0.00	0.47	2.64	2	19	6	95	0.00	0.0	6.590	0.018	3	1	2	5
PL.57946	PL.57781	B	6 A (CWC)	7.47Y	124.5	0.01	0.48	2.22	2	16	5	95	0.00	0.0	6.650	0.059	0	0	0	3
PL.38850	PL.57946	B	6 A (CWC)	7.47Y	124.5	0.01	0.48	2.13	2	15	4	97	0.00	0.0	6.758	0.108	11	3	1	2
PL.38851	PL.38850	B	6 A (CWC)	7.47Y	124.5	0.00	0.48	0.62	0	4	1	97	0.00	0.0	6.781	0.023	4	1	1	1
PL.37658	PL.57946	B	#1/0 ACSR	7.47Y	124.5	0.00	0.48	0.09	0	1	0	100	0.00	0.0	6.734	0.084	1	0	1	1
PL.61401	PL.57945	B	#1/0 ACSR	7.47Y	124.5	0.00	0.47	1.74	1	12	4	95	0.00	0.0	6.581	0.032	0	0	0	1
PD.9136	PL.61401	B	10T	7.47Y	124.5	0.00	0.47	1.74	0	12	4	95	0.00	0.0	6.581	0.032	0	0	0	1
PL.61402	PD.9136	B	#1/0 ACSR	7.47Y	124.5	0.00	0.47	1.74	1	12	4	95	0.00	0.0	6.730	0.149	12	4	1	1
PL.37292	PL.37842	B	6 A (CWC)	7.47Y	124.5	0.00	0.45	0.00	0	0	0	100	0.00	0.0	6.539	0.048	0	0	0	0
PL.38611	PL.38189	B	#4 ACSR	7.48Y	124.6	0.00	0.42	14.68	11	105	31	96	0.00	0.0	6.337	0.002	0	0	0	18
PD.5907	PL.38611	B	100CodeSMo	7.48Y	124.6	0.00	0.42	14.68	0	105	31	96	0.00	0.0	6.337	0.002	0	0	0	18
PL.38848	PD.5907	B	#4 ACSR	7.47Y	124.5	0.08	0.49	14.68	11	105	31	96	0.06	0.1	6.452	0.115	0	0	0	18
PL.38610	PL.38848	B	#4 ACSR	7.47Y	124.5	0.05	0.54	14.68	11	105	31	96	0.04	0.0	6.528	0.076	4	1	1	18
PL.38190	PL.38610	B	#4 ACSR	7.47Y	124.4	0.02	0.56	2.64	2	19	6	95	0.00	0.0	6.856	0.328	15	4	1	3

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

Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38191	PL.38190	B	#4 ACSR	7.47Y	124.4	0.00	0.56	0.00	0	0	0	100	0.00	0.0	6.963	0.107	0	0	1	1
PL.37206	PL.38190	B	#2 ACSR	7.47Y	124.4	0.00	0.56	0.57	0	4	1	97	0.00	0.0	7.061	0.205	4	1	1	1
PL.38856	PL.38610	B	#4 ACSR	7.45Y	124.2	0.31	0.85	11.49	9	82	24	96	0.19	0.2	7.128	0.600	0	0	0	14
PL.37795	PL.38856	B	#4 ACSR	7.44Y	124.1	0.08	0.92	11.49	9	82	24	96	0.05	0.1	7.275	0.147	0	0	0	14
PL.38857	PL.37795	B	#4 ACSR	7.44Y	124.0	0.03	0.95	6.86	5	49	14	96	0.01	0.0	7.397	0.122	16	5	4	12
PL.38858	PL.38857	B	#4 ACSR	7.44Y	124.0	0.02	0.97	4.64	4	33	10	96	0.00	0.0	7.490	0.093	0	0	0	8
PL.38154	PL.38858	B	#4 ACSR	7.44Y	124.0	0.02	1.00	4.54	3	32	9	96	0.01	0.0	7.601	0.111	0	0	0	7
PL.38155	PL.38154	B	#4 ACSR	7.44Y	124.0	0.03	1.03	4.53	3	32	9	96	0.01	0.0	7.768	0.167	0	0	0	6
PL.38156	PL.38155	B	#4 ACSR	7.44Y	123.9	0.02	1.05	4.53	3	32	9	96	0.01	0.0	7.879	0.111	2	0	2	6
PL.37769	PL.38156	B	#4 ACSR	7.44Y	123.9	0.03	1.08	4.30	3	31	9	96	0.01	0.0	8.037	0.159	0	0	0	4
PL.37771	PL.37769	B	6 A (CWC)	7.43Y	123.9	0.01	1.09	3.20	2	23	7	96	0.00	0.0	8.133	0.095	14	4	1	2
PL.61050	PL.37771	B	6 A (CWC)	7.43Y	123.9	0.01	1.10	1.29	1	9	3	95	0.00	0.0	8.397	0.264	9	3	1	1
PL.61051	PL.61050	B	6 A (CWC)	7.43Y	123.9	0.00	1.10	0.00	0	0	0	100	0.00	0.0	9.136	0.739	0	0	0	0
PL.38161	PL.61051	B	6 A (CWC)	7.43Y	123.9	0.00	1.10	0.00	0	0	0	100	0.00	0.0	9.426	0.290	0	0	0	0
PL.37770	PL.37769	B	#4 ACSR	7.43Y	123.9	0.01	1.09	1.10	1	8	2	97	0.00	0.0	8.214	0.176	0	0	0	2
PL.38157	PL.37770	B	#4 ACSR	7.43Y	123.9	0.00	1.09	1.10	1	8	2	97	0.00	0.0	8.268	0.054	8	2	1	2
PL.38158	PL.38157	B	#4 ACSR	7.43Y	123.9	0.00	1.09	0.04	0	0	0	100	0.00	0.0	8.416	0.148	0	0	0	1
PL.38159	PL.38158	B	#4 ACSR	7.43Y	123.9	0.00	1.09	0.04	0	0	0	100	0.00	0.0	8.483	0.068	0	0	1	1
PL.38160	PL.38159	B	#4 ACSR	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	8.555	0.071	0	0	0	0
PL.38152	PL.38154	B	6 A (CWC)	7.44Y	124.0	0.00	1.00	0.01	0	0	0	100	0.00	0.0	7.773	0.172	0	0	1	1
PL.38153	PL.38152	B	6 A (CWC)	7.44Y	124.0	0.00	1.00	0.00	0	0	0	100	0.00	0.0	8.114	0.341	0	0	0	0
PL.36757	PL.38858	B	#2 ACSR	7.44Y	124.0	0.00	0.97	0.10	0	1	0	100	0.00	0.0	7.534	0.044	1	0	1	1
PL.57592	PL.37795	B	6 A (CWC)	7.44Y	124.1	0.01	0.94	4.64	3	33	10	96	0.00	0.0	7.367	0.092	22	6	1	2
PL.57593	PL.57592	B	6 A (CWC)	7.44Y	124.1	0.00	0.94	1.61	1	11	3	96	0.00	0.0	7.389	0.023	11	3	1	1
PL.37743	PL.38856	B	6 A (CWC)	7.45Y	124.2	0.00	0.85	0.00	0	0	0	100	0.00	0.0	7.463	0.335	0	0	0	0
PL.38609	PL.38848	B	#4 ACSR	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	6.511	0.059	0	0	0	0
PL.37322	PL.38189	B	6 A (CWC)	7.48Y	124.6	0.00	0.42	1.04	1	7	2	96	0.00	0.0	6.409	0.073	7	2	1	1
PL.37748	PL.64001	B	#4 ACSR	7.48Y	124.7	0.00	0.31	3.95	3	28	8	96	0.00	0.0	6.267	0.036	16	5	1	2
PL.36752	PL.37748	B	#4 ACSR	7.48Y	124.7	0.00	0.31	1.72	1	12	4	95	0.00	0.0	6.301	0.034	12	4	1	1
PL.36753	PL.36752	B	#4 ACSR	7.48Y	124.7	0.00	0.31	0.00	0	0	0	100	0.00	0.0	6.338	0.037	0	0	0	0
PL.37839	PL.38845	B	#4 ACSR	7.50Y	124.9	0.06	0.05	8.97	7	65	19	96	0.03	0.0	6.212	0.173	16	5	1	7

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37840	PL.37839	B	#4 ACSR	7.50Y	124.9	0.02	0.08	4.99	4	36	10	96	0.01	0.0	6.321	0.109	10	3	1	4
PL.37313	PL.37840	B	#4 ACSR	7.49Y	124.9	0.03	0.10	3.65	3	26	8	96	0.00	0.0	6.494	0.173	4	1	1	3
PL.37835	PL.37313	B	#4 ACSR	7.49Y	124.9	0.00	0.10	2.46	2	18	5	96	0.00	0.0	6.554	0.060	18	5	1	1
PL.37314	PL.37313	B	#4 ACSR	7.49Y	124.9	0.00	0.10	0.65	1	5	1	98	0.00	0.0	6.563	0.069	5	1	1	1
PL.61043	PL.37839	B	#4 ACSR	7.50Y	124.9	0.00	0.05	0.00	0	0	0	100	0.00	0.0	6.267	0.055	0	0	0	0
PL.61033	PL.37839	B	#1/0 ACSR	7.50Y	124.9	0.00	0.05	1.71	1	12	4	95	0.00	0.0	6.216	0.004	0	0	0	2
PD.9132	PL.61033	B	20T	7.50Y	124.9	0.00	0.05	1.71	0	12	4	95	0.00	0.0	6.216	0.004	0	0	0	2
PL.61034	PD.9132	B	#1/0 ACSR	7.50Y	124.9	0.00	0.05	1.71	1	12	4	95	0.00	0.0	6.244	0.029	12	4	2	2
PL.38391	PL.64257	B	6 A (CWC)	7.11Y	118.5	0.01	6.50	1.97	1	13	4	96	0.00	0.0	5.925	0.126	0	0	0	1
PL.38847	PL.38391	B	6 A (CWC)	7.11Y	118.5	0.01	6.51	1.97	1	13	4	96	0.00	0.0	5.993	0.069	0	0	0	1
PL.37740	PL.38847	B	6 A (CWC)	7.11Y	118.5	0.00	6.51	1.97	1	13	4	96	0.00	0.0	6.029	0.036	13	4	1	1
PL.38602	PL.38847	B	6 A (CWC)	7.11Y	118.5	0.00	6.51	0.00	0	0	0	100	0.00	0.0	6.185	0.191	0	0	0	0
PL.64026	PL.64025	B	6 A (CWC)	7.18Y	119.7	0.01	5.33	2.62	2	18	5	96	0.00	0.0	5.506	0.075	6	2	1	2
PL.64032	PL.64026	B	6 A (CWC)	7.18Y	119.7	0.01	5.33	1.80	1	12	4	95	0.00	0.0	5.686	0.180	12	4	1	1
PL.64224	PL.64225	B	6 A (CWC)	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	5.397	0.051	0	0	1	1
PL.38110	PL.37573	B	6 A (CWC)	7.24Y	120.6	0.00	4.36	0.89	1	6	2	95	0.00	0.0	5.203	0.043	0	0	0	2
PL.38108	PL.38110	B	6 A (CWC)	7.24Y	120.6	0.00	4.36	0.89	1	6	2	95	0.00	0.0	5.223	0.021	6	2	2	2
PL.38109	PL.38108	B	6 A (CWC)	7.24Y	120.6	0.00	4.36	0.00	0	0	0	100	0.00	0.0	5.248	0.025	0	0	0	0
PL.38111	PL.38110	B	6 A (CWC)	7.24Y	120.6	0.00	4.36	0.00	0	0	0	100	0.00	0.0	5.244	0.041	0	0	0	0
PL.37570	PL.37569	C	#4 ACSR	7.25Y	120.9	0.00	4.15	0.05	0	0	0	100	0.00	0.0	5.102	0.001	0	0	0	1
PD.5996	PL.37570	C	60QA	7.25Y	120.9	0.00	4.15	0.05	0	0	0	100	0.00	0.0	5.102	0.001	0	0	0	1
PL.37571	PD.5996	C	#4 ACSR	7.25Y	120.9	0.00	4.15	0.05	0	0	0	100	0.00	0.0	5.191	0.088	0	0	1	1
PL.37495	PL.37965	A	336 MCM AC	7.26Y	121.0	0.00	3.98	0.00	0	0	0	100	0.00	0.0	4.729	0.002	0	0	0	0
PD.6061	PL.37495	A	60QA	7.26Y	121.0	0.00	3.98	0.00	0	0	0	100	0.00	0.0	4.729	0.002	0	0	0	0
PL.38258	PD.6061	A	336 MCM AC	7.26Y	121.0	0.00	3.98	0.00	0	0	0	100	0.00	0.0	4.781	0.052	0	0	0	0
PL.38027	PL.38031	A	#2 ACSR	7.27Y	121.1	0.00	3.86	0.91	1	6	2	95	0.00	0.0	4.486	0.001	0	0	0	1
PD.5991	PL.38027	A	60QA	7.27Y	121.1	0.00	3.86	0.91	2	6	2	95	0.00	0.0	4.486	0.001	0	0	0	1
PL.38028	PD.5991	A	#2 ACSR	7.27Y	121.1	0.00	3.86	0.91	1	6	2	95	0.00	0.0	4.527	0.041	6	2	1	1
PL.38029	PL.38031	C	#2 ACSR	7.27Y	121.1	0.00	3.86	3.33	2	23	7	96	0.00	0.0	4.486	0.001	0	0	0	2
PD.6043	PL.38029	C	25T	7.27Y	121.1	0.00	3.86	3.33	0	23	7	96	0.00	0.0	4.486	0.001	0	0	0	2
PL.38030	PD.6043	C	#2 ACSR	7.27Y	121.1	0.00	3.86	3.33	2	23	7	96	0.00	0.0	4.523	0.037	0	0	0	2

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37820	PL.38030	C	#2 ACSR	7.27Y	121.1	0.00	3.86	2.07	1	14	4	96	0.00	0.0	4.562	0.039	0	0	0	1
PL.36871	PL.37820	C	#2 ACSR	7.27Y	121.1	0.00	3.87	2.07	1	14	4	96	0.00	0.0	4.606	0.044	14	4	1	1
PL.37821	PL.37820	C	#2 ACSR	7.27Y	121.1	0.00	3.86	0.00	0	0	0	100	0.00	0.0	4.848	0.286	0	0	0	0
PL.37823	PL.38030	C	#1/0 ACSR	7.27Y	121.1	0.00	3.86	1.25	1	9	3	95	0.00	0.0	4.548	0.025	9	3	1	1
PL.38032	PL.38034	A	#2 ACSR	7.27Y	121.2	0.00	3.83	2.55	1	18	5	96	0.00	0.0	4.437	0.001	0	0	0	1
PD.6062	PL.38032	A	60QA	7.27Y	121.2	0.00	3.83	2.55	4	18	5	96	0.00	0.0	4.437	0.001	0	0	0	1
PL.38033	PD.6062	A	#2 ACSR	7.27Y	121.2	0.00	3.83	2.55	1	18	5	96	0.00	0.0	4.473	0.036	18	5	1	1
PL.38038	PL.37297	A	6 A (CWC)	7.28Y	121.3	0.00	3.71	0.00	0	0	0	100	0.00	0.0	4.209	0.001	0	0	0	0
PD.5992	PL.38038	A	60QA	7.28Y	121.3	0.00	3.71	0.00	0	0	0	100	0.00	0.0	4.209	0.001	0	0	0	0
PL.38039	PD.5992	A	6 A (CWC)	7.28Y	121.3	0.00	3.71	0.00	0	0	0	100	0.00	0.0	4.262	0.053	0	0	0	0
PL.37294	PL.38039	A	6 A (CWC)	7.28Y	121.3	0.00	3.71	0.00	0	0	0	100	0.00	0.0	4.334	0.073	0	0	0	0
PL.38040	PL.38039	A	6 A (CWC)	7.28Y	121.3	0.00	3.71	0.00	0	0	0	100	0.00	0.0	4.328	0.066	0	0	0	0
PL.37882	PL.38041	C	#2 ACSR	7.28Y	121.4	0.00	3.62	0.00	0	0	0	100	0.00	0.0	4.049	0.001	0	0	0	0
PD.5993	PL.37882	C	60QA	7.28Y	121.4	0.00	3.62	0.00	0	0	0	100	0.00	0.0	4.049	0.001	0	0	0	0
PL.38042	PD.5993	C	#2 ACSR	7.28Y	121.4	0.00	3.62	0.00	0	0	0	100	0.00	0.0	4.081	0.033	0	0	0	0
PL.38043	PL.38042	C	#2 ACSR	7.28Y	121.4	0.00	3.62	0.00	0	0	0	100	0.00	0.0	4.112	0.031	0	0	0	0
PL.37117	PL.37335	B	#4 ACSR	7.28Y	121.3	0.10	3.66	71.61	55	500	148	96	0.38	0.1	3.964	0.031	0	0	0	63
PL.37787	PL.37117	B	#4 ACSR	7.28Y	121.3	0.00	3.66	71.61	55	500	148	96	0.01	0.0	3.965	0.001	0	0	0	63
PD.5913	PL.37787	B	100L	7.28Y	121.3	0.00	3.66	71.61	72	500	148	96	0.00	0.0	3.965	0.001	0	0	0	63
PL.36728	PD.5913	B	#4 ACSR	7.27Y	121.2	0.13	3.79	71.61	55	500	148	96	0.48	0.1	4.005	0.040	16	5	4	63
PL.37902	PL.36728	B	#4 ACSR	7.26Y	121.1	0.14	3.92	69.30	53	483	143	96	0.50	0.1	4.050	0.045	16	5	1	59
PL.36729	PL.37902	B	#4 ACSR	7.25Y	120.8	0.30	4.22	67.04	52	467	138	96	1.06	0.2	4.149	0.100	9	3	1	58
PL.37204	PL.36729	B	#4 ACSR	7.25Y	120.8	0.00	4.22	0.00	0	0	0	100	0.00	0.0	4.212	0.063	0	0	0	0
PL.37905	PL.36729	B	#4 ACSR	7.20Y	120.0	0.74	4.97	65.69	51	456	135	96	2.62	0.6	4.403	0.253	0	0	0	57
PL.37253	PL.37905	B	#4 ACSR	7.20Y	120.0	0.01	4.98	1.57	1	11	3	96	0.00	0.0	4.612	0.210	5	2	1	2
PL.62833	PL.37253	B	#1/0 ACSR	7.20Y	120.0	0.00	4.98	0.79	0	5	2	93	0.00	0.0	4.680	0.068	0	0	0	1
PL.62834	PL.62833	B	#1/0 ACSR	7.20Y	120.0	0.00	4.98	0.79	0	5	2	93	0.00	0.0	4.740	0.059	5	2	1	1
PL.37906	PL.37905	B	#4 ACSR	7.19Y	119.8	0.25	5.22	64.12	49	443	130	96	0.86	0.2	4.491	0.088	4	1	1	55
PL.37907	PL.37906	B	#4 ACSR	7.17Y	119.5	0.27	5.49	63.48	49	438	129	96	0.91	0.2	4.585	0.095	0	0	0	54
PL.37908	PL.37907	B	#4 ACSR	7.16Y	119.3	0.26	5.75	59.10	45	407	119	96	0.82	0.2	4.684	0.098	0	0	0	52
PL.37697	PL.37908	B	#4 ACSR	7.14Y	119.0	0.30	6.04	59.10	45	406	119	96	0.94	0.2	4.796	0.112	0	0	0	52

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37208	PL.37697	B	#4 ACSR	7.13Y	118.9	0.09	6.13	38.53	30	264	77	96	0.18	0.1	4.845	0.050	0	0	0	44
PL.37837	PL.37208	B	#4 ACSR	7.10Y	118.4	0.49	6.62	11.45	9	78	23	96	0.30	0.4	5.826	0.981	3	1	1	19
PL.38585	PL.37837	B	6 A (CWC)	7.10Y	118.3	0.05	6.67	5.68	4	39	11	96	0.02	0.0	6.029	0.203	0	0	0	7
REG44	PL.38585	B	76.2 KVA	7.52Y	125.4	-7.05	-0.38	5.68	6	39	11	96	percent Boost= 0.00 Tap= 0.0							7
PL.38586	REG44	B	6 A (CWC)	7.52Y	125.3	0.07	-0.31	5.36	4	39	11	96	0.02	0.1	6.327	0.298	3	1	1	7
PL.38583	PL.38586	B	6 A (CWC)	7.52Y	125.3	0.01	-0.30	4.99	4	36	11	96	0.00	0.0	6.373	0.046	3	1	1	6
PL.58463	PL.38583	B	6 A (CWC)	7.52Y	125.3	0.03	-0.27	4.22	3	30	9	96	0.01	0.0	6.546	0.173	0	0	0	4
PD.8686	PL.58463	B	20T	7.52Y	125.3	0.00	-0.27	4.22	0	30	9	96	0.00	0.0	6.546	0.173	0	0	0	4
PL.58464	PD.8686	B	6 A (CWC)	7.51Y	125.2	0.02	-0.25	4.22	3	30	9	96	0.00	0.0	6.646	0.100	0	0	0	4
PL.37125	PL.58464	B	6 A (CWC)	7.51Y	125.2	0.06	-0.19	4.22	3	30	9	96	0.01	0.0	6.953	0.308	0	0	0	4
PL.37838	PL.37125	B	6 A (CWC)	7.51Y	125.2	0.00	-0.19	0.51	0	4	1	97	0.00	0.0	6.976	0.022	4	1	1	1
PL.38587	PL.37125	B	6 A (CWC)	7.51Y	125.2	0.01	-0.17	3.72	3	27	8	96	0.00	0.0	7.032	0.078	0	0	0	3
PL.37126	PL.38587	B	6 A (CWC)	7.51Y	125.1	0.03	-0.14	3.33	2	24	7	96	0.01	0.0	7.226	0.194	0	0	0	2
PL.38588	PL.37126	B	6 A (CWC)	7.50Y	125.0	0.11	-0.03	3.33	2	24	7	96	0.02	0.1	7.964	0.738	0	0	0	2
PL.38589	PL.38588	B	6 A (CWC)	7.50Y	125.0	0.01	-0.02	3.33	2	24	7	96	0.00	0.0	8.058	0.094	24	7	2	2
PL.37865	PL.38587	B	6 A (CWC)	7.51Y	125.2	0.00	-0.17	0.39	0	3	1	95	0.00	0.0	7.088	0.056	3	1	1	1
PL.37540	PL.37125	B	6 A (CWC)	7.51Y	125.2	0.00	-0.19	0.00	0	0	0	100	0.00	0.0	6.993	0.040	0	0	0	0
PL.58522	PL.38583	B	6 A (CWC)	7.52Y	125.3	0.00	-0.30	0.30	0	2	1	89	0.00	0.0	6.376	0.003	0	0	0	1
PD.8706	PL.58522	B	20T	7.52Y	125.3	0.00	-0.30	0.30	0	2	1	89	0.00	0.0	6.376	0.003	0	0	0	1
PL.58523	PD.8706	B	6 A (CWC)	7.52Y	125.3	0.00	-0.30	0.30	0	2	1	89	0.00	0.0	6.661	0.285	2	1	1	1
PL.38584	PL.58523	B	6 A (CWC)	7.52Y	125.3	0.00	-0.30	0.00	0	0	0	100	0.00	0.0	6.801	0.140	0	0	0	0
PL.37539	PL.37837	B	#4 ACSR	7.10Y	118.3	0.05	6.67	5.28	4	36	10	96	0.01	0.0	6.028	0.202	2	1	1	11
PL.37123	PL.37539	B	#4 ACSR	7.10Y	118.3	0.05	6.72	3.70	3	25	7	96	0.01	0.0	6.349	0.321	0	0	1	4
PL.37124	PL.37123	B	#4 ACSR	7.10Y	118.3	0.03	6.75	3.69	3	25	7	96	0.01	0.0	6.535	0.186	0	0	0	3
PL.39225	PL.37124	B	#4 ACSR	7.09Y	118.2	0.01	6.76	3.69	3	25	7	96	0.00	0.0	6.646	0.111	25	7	3	3
PL.39226	PL.39225	B	#4 ACSR	7.09Y	118.2	0.00	6.76	0.00	0	0	0	100	0.00	0.0	6.708	0.063	0	0	0	0
PL.37806	PL.37539	B	#4 ACSR	7.10Y	118.3	0.00	6.67	0.25	0	2	1	89	0.00	0.0	6.119	0.090	0	0	1	2
PL.37807	PL.37806	B	#4 ACSR	7.10Y	118.3	0.00	6.67	0.20	0	1	0	100	0.00	0.0	6.183	0.065	1	0	1	1
PL.64228	PL.37539	B	#4 ACSR	7.10Y	118.3	0.01	6.68	1.08	1	7	2	96	0.00	0.0	6.294	0.266	0	0	0	4
PL.64155	PL.64228	B	6 A (CWC)	7.10Y	118.3	0.00	6.68	0.14	0	1	0	100	0.00	0.0	6.384	0.089	1	0	2	2
PL.64227	PL.64228	B	6 A (CWC)	7.10Y	118.3	0.00	6.68	0.00	0	0	0	100	0.00	0.0	6.386	0.092	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: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.64229	PL.64228	B	#4 ACSR	7.10Y	118.3	0.00	6.68	0.94	1	6	2	95	0.00	0.0	6.398	0.104	2	1	1	2
PL.37898	PL.64229	B	#4 ACSR	7.10Y	118.3	0.00	6.68	0.00	0	0	0	100	0.00	0.0	6.464	0.066	0	0	0	0
PL.37256	PL.64229	B	#4 ACSR	7.10Y	118.3	0.00	6.68	0.57	0	4	1	97	0.00	0.0	6.463	0.065	4	1	1	1
PL.62501	PL.37208	B	#4 ACSR	7.13Y	118.9	0.00	6.13	27.08	21	185	54	96	0.01	0.0	4.849	0.003	0	0	0	25
PD.9370	PL.62501	B	25T	7.13Y	118.9	0.00	6.13	27.08	0	185	54	96	0.00	0.0	4.849	0.003	0	0	0	25
PL.62502	PD.9370	B	#4 ACSR	7.12Y	118.7	0.17	6.30	27.08	21	185	54	96	0.24	0.1	4.988	0.139	6	2	1	25
PL.37228	PL.62502	B	#4 ACSR	7.11Y	118.6	0.12	6.42	26.22	20	179	52	96	0.17	0.1	5.093	0.105	0	0	0	24
PL.37229	PL.37228	B	#4 ACSR	7.11Y	118.6	0.01	6.43	4.67	4	32	9	96	0.00	0.0	5.175	0.082	32	9	3	3
PL.37701	PL.37229	B	#4 ACSR	7.11Y	118.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	5.215	0.040	0	0	0	0
PL.37702	PL.37701	B	#4 ACSR	7.11Y	118.6	0.00	6.43	0.00	0	0	0	100	0.00	0.0	5.278	0.062	0	0	0	0
PL.37703	PL.37228	B	#4 ACSR	7.10Y	118.4	0.21	6.63	21.55	17	147	43	96	0.24	0.2	5.307	0.215	0	0	0	21
PL.37507	PL.37703	B	#4 ACSR	7.10Y	118.3	0.07	6.69	17.34	13	118	34	96	0.06	0.0	5.397	0.089	13	4	2	18
PL.37799	PL.37507	B	#4 ACSR	7.10Y	118.3	0.00	6.69	0.26	0	2	1	89	0.00	0.0	5.422	0.025	2	1	1	1
PL.37508	PL.37507	B	#4 ACSR	7.10Y	118.3	0.04	6.73	12.20	9	83	24	96	0.03	0.0	5.478	0.081	11	3	1	12
PL.37341	PL.37508	B	#4 ACSR	7.10Y	118.3	0.00	6.74	1.79	1	12	4	95	0.00	0.0	5.556	0.078	12	4	1	1
PL.37509	PL.37508	B	#4 ACSR	7.09Y	118.2	0.03	6.77	8.82	7	60	17	96	0.01	0.0	5.558	0.080	0	0	0	10
PL.37510	PL.37509	B	#4 ACSR	7.09Y	118.2	0.00	6.77	6.51	5	44	13	96	0.00	0.0	5.571	0.014	2	1	1	9
PL.37511	PL.37510	B	#4 ACSR	7.09Y	118.2	0.02	6.79	6.15	5	42	12	96	0.01	0.0	5.632	0.061	0	0	0	8
PL.37512	PL.37511	B	#4 ACSR	7.09Y	118.2	0.04	6.83	6.15	5	42	12	96	0.01	0.0	5.814	0.182	11	3	2	8
PL.37575	PL.37512	B	#4 ACSR	7.09Y	118.2	0.00	6.83	0.08	0	1	0	100	0.00	0.0	5.906	0.092	1	0	1	1
PL.37513	PL.37512	B	#4 ACSR	7.09Y	118.2	0.02	6.85	4.40	3	30	9	96	0.00	0.0	5.924	0.110	11	3	1	5
PL.37514	PL.37513	B	#4 ACSR	7.09Y	118.1	0.01	6.86	2.75	2	19	5	97	0.00	0.0	6.020	0.096	0	0	0	4
PL.37515	PL.37514	B	#4 ACSR	7.09Y	118.1	0.00	6.86	0.80	1	5	2	93	0.00	0.0	6.068	0.048	5	2	1	1
PL.37516	PL.37514	B	#4 ACSR	7.09Y	118.1	0.02	6.88	1.95	2	13	4	96	0.00	0.0	6.217	0.197	0	0	0	3
PL.36714	PL.37516	B	#4 ACSR	7.09Y	118.1	0.00	6.88	1.95	2	13	4	96	0.00	0.0	6.228	0.010	13	4	3	3
PL.37542	PL.37509	B	#4 ACSR	7.09Y	118.2	0.00	6.77	2.31	2	16	5	95	0.00	0.0	5.600	0.042	16	5	1	1
PL.37541	PL.37507	B	#4 ACSR	7.10Y	118.3	0.01	6.70	3.01	2	21	6	96	0.00	0.0	5.475	0.079	21	6	3	3
PL.61028	PL.37703	B	#1/0 ACSR	7.10Y	118.4	0.00	6.63	1.58	1	11	3	96	0.00	0.0	5.319	0.011	11	3	1	1
PL.37704	PL.37703	B	#4 ACSR	7.10Y	118.4	0.01	6.63	2.62	2	18	5	96	0.00	0.0	5.372	0.065	3	1	1	2
PL.37506	PL.37704	B	#4 ACSR	7.10Y	118.4	0.01	6.64	2.17	2	15	4	97	0.00	0.0	5.485	0.113	15	4	1	1
PL.37698	PL.37697	B	#4 ACSR	7.14Y	119.0	0.00	6.04	1.74	1	12	3	97	0.00	0.0	4.797	0.001	0	0	0	1

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Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.6004	PL.37698	B	40QA	7.14Y	119.0	0.00	6.04	1.74	4	12	3	97	0.00	0.0	4.797	0.001	0	0	0	1
PL.37699	PD.6004	B	#4 ACSR	7.14Y	119.0	0.01	6.05	1.74	1	12	3	97	0.00	0.0	4.976	0.179	12	3	1	1
PL.37700	PL.37697	B	#4 ACSR	7.14Y	119.0	0.00	6.04	18.83	14	129	38	96	0.00	0.0	4.797	0.001	0	0	0	7
PD.6048	PL.37700	B	40QA	7.14Y	119.0	0.00	6.04	18.83	47	129	38	96	0.00	0.0	4.797	0.001	0	0	0	7
PL.37803	PD.6048	B	#4 ACSR	7.11Y	118.6	0.40	6.45	18.83	14	129	38	96	0.41	0.3	5.276	0.479	0	0	0	7
PL.37340	PL.37803	B	6 A (CWC)	7.11Y	118.6	0.00	6.45	0.00	0	0	0	100	0.00	0.0	5.381	0.105	0	0	0	0
PL.37804	PL.37803	B	#4 ACSR	7.11Y	118.5	0.05	6.49	18.83	14	129	37	96	0.05	0.0	5.330	0.055	0	0	0	7
PL.37218	PL.37804	B	#4 ACSR	7.11Y	118.5	0.03	6.52	18.83	14	129	37	96	0.03	0.0	5.364	0.033	7	2	1	7
PL.37219	PL.37218	B	#4 ACSR	7.11Y	118.4	0.04	6.56	17.88	14	122	36	96	0.04	0.0	5.414	0.050	0	0	0	6
PL.37290	PL.37219	B	#4 ACSR	7.11Y	118.4	0.01	6.57	8.14	6	56	16	96	0.01	0.0	5.453	0.039	0	0	0	2
PL.37805	PL.37290	B	#4 ACSR	7.11Y	118.4	0.00	6.57	0.00	0	0	0	100	0.00	0.0	5.543	0.090	0	0	0	0
PL.37863	PL.37290	B	6 A (CWC)	7.11Y	118.4	0.01	6.58	8.14	6	56	16	96	0.00	0.0	5.499	0.046	56	16	2	2
PL.64226	PL.37219	B	6 A (CWC)	7.10Y	118.4	0.03	6.59	9.73	7	66	19	96	0.01	0.0	5.478	0.064	0	0	0	4
PL.64159	PL.64226	B	6 A (CWC)	7.10Y	118.4	0.01	6.60	9.73	7	66	19	96	0.01	0.0	5.512	0.034	10	3	1	4
PL.64154	PL.64159	B	6 A (CWC)	7.10Y	118.4	0.01	6.61	8.29	6	57	16	96	0.00	0.0	5.561	0.049	57	16	3	3
PL.37205	PL.37804	B	6 A (CWC)	7.11Y	118.5	0.00	6.49	0.00	0	0	0	100	0.00	0.0	5.408	0.077	0	0	0	0
PL.37684	PL.37907	B	#2 ACSR	7.17Y	119.5	0.00	5.49	2.41	1	17	5	96	0.00	0.0	4.611	0.026	17	5	1	1
PL.36722	PL.37907	B	#2 ACSR	7.17Y	119.5	0.00	5.49	1.96	1	13	4	96	0.00	0.0	4.653	0.067	13	4	1	1
PL.37500	PL.37503	A	#4 ACSR	7.34Y	122.3	0.00	2.70	0.00	0	0	0	100	0.00	0.0	2.765	0.001	0	0	0	1
PD.6063	PL.37500	A	60QA	7.34Y	122.3	0.00	2.70	0.00	0	0	0	100	0.00	0.0	2.765	0.001	0	0	0	1
PL.37501	PD.6063	A	#4 ACSR	7.34Y	122.3	0.00	2.70	0.00	0	0	0	100	0.00	0.0	2.793	0.028	0	0	1	1
PL.37502	PL.37501	A	#4 ACSR	7.34Y	122.3	0.00	2.70	0.00	0	0	0	100	0.00	0.0	2.880	0.086	0	0	0	0
CP.98	PL.52651	ABC	Cap (300)	7.36Y	122.6	0.00	2.40	0.00	0	0	0	100	0.00	0.0	2.369	0.086	0	0	0	0
PL.38213	PL.38356	C	#2 ACSR	7.38Y	122.9	0.00	2.08	3.13	2	22	6	96	0.00	0.0	1.978	0.000	0	0	0	4
PD.6047	PL.38213	C	60QA	7.38Y	122.9	0.00	2.08	3.13	5	22	6	96	0.00	0.0	1.978	0.000	0	0	0	4
PL.38214	PD.6047	C	#2 ACSR	7.37Y	122.9	0.00	2.09	3.13	2	22	6	96	0.00	0.0	2.028	0.050	12	3	1	4
PL.37537	PL.38214	C	#2 ACSR	7.37Y	122.9	0.00	2.09	1.46	1	10	3	96	0.00	0.0	2.057	0.029	5	1	2	3
PL.37538	PL.37537	C	#2 ACSR	7.37Y	122.9	0.00	2.09	0.77	0	5	2	93	0.00	0.0	2.179	0.122	5	2	1	1
PL.38022	PL.37760	C	#2 ACSR	7.39Y	123.2	0.00	1.81	1.33	1	9	3	95	0.00	0.0	1.693	0.001	0	0	0	1
PD.5970	PL.38022	C	60QA	7.39Y	123.2	0.00	1.81	1.33	2	9	3	95	0.00	0.0	1.693	0.001	0	0	0	1
PL.38023	PD.5970	C	#2 ACSR	7.39Y	123.2	0.00	1.81	1.33	1	9	3	95	0.00	0.0	1.715	0.022	9	3	1	1

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

Balanced Voltage Drop Report
Source: Conway

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.38024	PL.37767	B	#4 ACSR	7.40Y	123.4	0.00	1.64	1.21	1	9	2	98	0.00	0.0	1.533	0.001	0	0	0	1
PD.5969	PL.38024	B	60QA	7.40Y	123.4	0.00	1.64	1.21	2	9	2	98	0.00	0.0	1.533	0.001	0	0	0	1
PL.38025	PD.5969	B	#4 ACSR	7.40Y	123.4	0.00	1.64	1.21	1	9	2	98	0.00	0.0	1.554	0.022	9	2	1	1
PL.52504	PL.52502	A	#1/0 ACSR	7.44Y	124.0	0.00	0.98	2.61	1	19	5	97	0.00	0.0	0.912	0.000	0	0	0	1
PD.5988	PL.52504	A	25QA	7.44Y	124.0	0.00	0.98	2.61	10	19	5	97	0.00	0.0	0.912	0.000	0	0	0	1
PL.38685	PD.5988	A	#1/0 ACSR	7.44Y	124.0	0.00	0.99	2.61	1	19	5	97	0.00	0.0	0.931	0.019	19	5	1	1
CP.73	PL.61768	ABC	Cap (300)	7.44Y	124.1	0.00	0.94	0.00	0	0	0	100	0.00	0.0	0.868	0.019	0	0	0	0

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	9130	0	0	0	0	0	251	0.00	9381
KVAR	2663	0	0	0	0	0	421		3084

Lowest Voltage = 118.12 on Element PL.36714
Max Accm VoltD = 6.88 on Element PL.36714
Max Elem VoltD = 0.74 on Element PL.37905