Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
Goose Rock		ABC	SRC-Goose	7.50Y	125.0	0.00	0.00	542.64	0	11595	3825	95	0.00	0.0	0.000	0.000	0	0	0	2558
PL.1255	Goose Rock	ABC	1/0 AL URD	7.50Y	125.0	0.01	0.01	59.29	35	1282	369	96	0.09	0.0	0.007	0.007	0	0	0	273
PL.7157	PL.1255	ABC	1/0 AL URD	7.50Y	125.0	0.00	0.01	59.29	35	1282	369	96	0.03	0.0	0.009	0.002	0	0	0	273
---------- Feeder No. 2 (Big Creek F2) Beginning with Device PD.1527 ----------																				
PD.1527	PL.7157	ABC	480VWE	7.50Y	125.0	0.00	0.01	59.29	0	1282	369	96	0.00	0.0	0.009	0.002	0	0	0	273
PL.7158	PD.1527	ABC	1/0 AL URD	7.50Y	125.0	0.01	0.02	59.29	35	1282	369	96	0.13	0.0	0.020	0.011	0	0	0	273
PL.1388	PL.7158	ABC	397 SPACER	7.50Y	125.0	0.00	0.02	59.29	11	1282	369	96	0.00	0.0	0.023	0.002	0	0	0	273
PD.204-A	PL.1388	ABC	Closed	7.50Y	125.0	0.00	0.02	59.29	0	1282	369	96	0.00	0.0	0.023	0.002	0	0	0	273
PD.204-B	PD.204-A	ABC	Closed	7.50Y	125.0	0.00	0.02	59.29	0	1282	369	96	0.00	0.0	0.023	0.002	0	0	0	273
PL.1389	PD.204-B	ABC	397 SPACER	7.50Y	125.0	0.02	0.04	59.29	11	1282	369	96	0.04	0.0	0.106	0.083	0	0	0	273
PL.47	PL.1389	ABC	397 SPACER	7.50Y	125.0	0.01	0.05	58.97	11	1275	366	96	0.02	0.0	0.150	0.044	12	3	3	270
PL.90	PL.47	ABC	397 SPACER	7.50Y	124.9	0.01	0.06	58.41	11	1263	363	96	0.02	0.0	0.196	0.046	0	0	1	267
PL.91	PL.90	ABC	397 SPACER	7.50Y	124.9	0.01	0.06	58.41	11	1263	363	96	0.01	0.0	0.227	0.031	30	8	4	266
PL.1298	PL.91	ABC	397 SPACER	7.50Y	124.9	0.01	0.07	57.05	11	1233	354	96	0.02	0.0	0.281	0.055	0	0	4	262
PL.92	PL.1298	ABC	397 SPACER	7.50Y	124.9	0.00	0.08	57.05	11	1233	354	96	0.01	0.0	0.304	0.023	9	3	1	258
PL.1297	PL.92	ABC	397 SPACER	7.49Y	124.9	0.01	0.09	56.61	11	1224	351	96	0.02	0.0	0.358	0.054	0	0	0	257
PL.48	PL.1297	ABC	397 SPACER	7.49Y	124.9	0.01	0.09	56.13	11	1213	348	96	0.01	0.0	0.388	0.030	7	2	1	253
PL.1296	PL.48	ABC	397 SPACER	7.49Y	124.9	0.01	0.10	55.79	11	1206	346	96	0.02	0.0	0.446	0.058	8	2	2	252
PL.94	PL.1296	ABC	397 SPACER	7.49Y	124.9	0.00	0.11	55.42	11	1198	343	96	0.01	0.0	0.474	0.027	13	4	2	250
PL.1295	PL.94	ABC	397 SPACER	7.49Y	124.9	0.01	0.11	54.82	11	1185	340	96	0.02	0.0	0.521	0.047	4	1	2	248
PL.95	PL.1295	ABC	397 SPACER	7.49Y	124.9	0.01	0.12	54.63	11	1181	338	96	0.01	0.0	0.553	0.032	36	10	1	246
PL.1294	PL.95	ABC	397 SPACER	7.49Y	124.9	0.01	0.13	52.96	10	1144	328	96	0.02	0.0	0.602	0.049	0	0	0	245
PL.96	PL.1294	ABC	397 SPACER	7.49Y	124.9	0.01	0.13	52.96	10	1144	328	96	0.01	0.0	0.640	0.039	20	5	7	245
PL.97	PL.96	ABC	397 SPACER	7.49Y	124.9	0.01	0.14	52.05	10	1125	322	96	0.02	0.0	0.691	0.051	0	0	0	238
PL.1308	PL.97	C	#4 ACSR	7.49Y	124.9	0.00	0.14	1.07	1	8	2	97	0.00	0.0	0.695	0.004	0	0	0	1
PD.167	PL.1308	C	65QA	7.49Y	124.9	0.00	0.14	1.07	0	8	2	97	0.00	0.0	0.695	0.004	0	0	0	1
PL.1309	PD.167	C	#4 ACSR	7.49Y	124.9	0.00	0.14	1.07	1	8	2	97	0.00	0.0	0.707	0.011	8	2	1	1
PL.1306	PL.97	A	#4 ACSR	7.49Y	124.9	0.00	0.14	3.58	3	26	7	97	0.00	0.0	0.694	0.003	0	0	0	6
PD.166	PL.1306	A	65QA	7.49Y	124.9	0.00	0.14	3.58	0	26	7	97	0.00	0.0	0.694	0.003	0	0	0	6
PL.1307	PD.166	A	#4 ACSR	7.49Y	124.9	0.01	0.15	3.58	3	26	7	97	0.00	0.0	0.776	0.082	19	5	4	6

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

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.5	PL.1307	A	#4 ACSR	7.49Y	124.8	0.00	0.15	0.99	1	7	2	96	0.00	0.0	0.878	0.102	7	2	2	2
PL.1293	PL.97	ABC	397 SPACER	7.49Y	124.9	0.01	0.15	50.50	10	1091	313	96	0.02	0.0	0.743	0.052	0	0	0	231
PL.1312	PL.1293	B	6 A (CWC)	7.49Y	124.9	0.00	0.15	1.81	1	13	4	96	0.00	0.0	0.745	0.003	0	0	0	3
PD.169	PL.1312	B	65QA	7.49Y	124.9	0.00	0.15	1.81	0	13	4	96	0.00	0.0	0.745	0.003	0	0	0	3
PL.1313	PD.169	B	6 A (CWC)	7.49Y	124.8	0.00	0.15	1.81	1	13	4	96	0.00	0.0	0.808	0.063	13	4	3	3
PL.1310	PL.1293	B	6 A (CWC)	7.49Y	124.9	0.00	0.15	1.29	1	9	3	95	0.00	0.0	0.747	0.004	0	0	0	1
PD.168	PL.1310	B	65QA	7.49Y	124.9	0.00	0.15	1.29	0	9	3	95	0.00	0.0	0.747	0.004	0	0	0	1
PL.1311	PD.168	B	6 A (CWC)	7.49Y	124.9	0.00	0.15	1.29	1	9	3	95	0.00	0.0	0.759	0.012	9	3	1	1
PL.1292	PL.1293	ABC	397 SPACER	7.49Y	124.8	0.01	0.16	49.47	10	1069	307	96	0.03	0.0	0.834	0.091	0	0	0	227
PL.1280	PL.1292	B	#4 ACSR	7.49Y	124.8	0.00	0.16	2.81	2	20	6	96	0.00	0.0	0.837	0.003	0	0	0	4
PD.158	PL.1280	B	40QA	7.49Y	124.8	0.00	0.16	2.81	7	20	6	96	0.00	0.0	0.837	0.003	0	0	0	4
PL.1281	PD.158	B	#4 ACSR	7.49Y	124.8	0.00	0.16	2.81	2	20	6	96	0.00	0.0	0.859	0.022	20	6	4	4
PL.1314	PL.1292	ABC	397 SPACER	7.49Y	124.8	0.01	0.17	48.53	9	1048	301	96	0.02	0.0	0.902	0.068	0	0	0	223
PL.1315	PL.1314	B	6 A (CWC)	7.49Y	124.8	0.00	0.17	1.48	1	11	3	96	0.00	0.0	0.904	0.003	0	0	0	1
PD.170	PL.1315	B	65QA	7.49Y	124.8	0.00	0.17	1.48	0	11	3	96	0.00	0.0	0.904	0.003	0	0	0	1
PL.1316	PD.170	B	6 A (CWC)	7.49Y	124.8	0.00	0.17	1.48	1	11	3	96	0.00	0.0	0.924	0.020	11	3	1	1
PL.517	PL.1314	ABC	397 SPACER	7.49Y	124.8	0.01	0.18	47.49	9	1026	294	96	0.02	0.0	0.974	0.072	6	2	1	218
PL.98	PL.517	ABC	397 SPACER	7.49Y	124.8	0.00	0.19	47.21	9	1020	292	96	0.01	0.0	0.993	0.019	0	0	0	217
PL.50	PL.98	ABC	397 SPACER	7.49Y	124.8	0.01	0.19	45.90	9	991	284	96	0.01	0.0	1.047	0.054	4	1	2	211
PL.51	PL.50	ABC	397 SPACER	7.49Y	124.8	0.01	0.20	45.73	9	988	283	96	0.01	0.0	1.085	0.039	14	4	3	209
PL.1321	PL.51	B	#2 ACSR	7.49Y	124.8	0.00	0.20	3.07	2	22	6	96	0.00	0.0	1.089	0.004	0	0	0	4
PD.173	PL.1321	B	40QA	7.49Y	124.8	0.00	0.20	3.07	8	22	6	96	0.00	0.0	1.089	0.004	0	0	0	4
PL.1322	PD.173	B	#2 ACSR	7.49Y	124.8	0.00	0.20	3.07	2	22	6	96	0.00	0.0	1.098	0.009	22	6	4	4
PL.52	PL.51	ABC	397 SPACER	7.49Y	124.8	0.00	0.20	44.05	8	951	273	96	0.01	0.0	1.107	0.021	17	5	3	202
PL.53	PL.52	ABC	397 SPACER	7.49Y	124.8	0.01	0.21	43.26	8	934	268	96	0.01	0.0	1.163	0.056	17	5	2	199
PL.54	PL.53	ABC	397 SPACER	7.49Y	124.8	0.00	0.21	42.22	8	912	262	96	0.01	0.0	1.186	0.023	0	0	0	196
PL.514	PL.54	ABC	397 SPACER	7.49Y	124.8	0.01	0.22	41.69	8	900	258	96	0.02	0.0	1.257	0.071	7	2	2	194
PL.1327	PL.514	A	#2 HdCu -	7.49Y	124.8	0.00	0.22	7.14	3	51	14	96	0.00	0.0	1.261	0.004	0	0	0	9
PD.176	PL.1327	A	65QA	7.49Y	124.8	0.00	0.22	7.14	0	51	14	96	0.00	0.0	1.261	0.004	0	0	0	9
PL.1328	PD.176	A	#2 HdCu -	7.49Y	124.8	0.00	0.22	7.14	3	51	14	96	0.00	0.0	1.265	0.004	0	0	0	9
PL.951	PL.1328	A	#2 HdCu -	7.49Y	124.8	0.00	0.23	5.10	2	37	10	97	0.00	0.0	1.302	0.037	9	2	2	7

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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.511	PL.951	A	#2 HdCu -	7.49Y	124.8	0.00	0.23	3.90	2	28	8	96	0.00	0.0	1.329	0.027	28	8	5	5
PL.296	PL.1328	A	#2 ACSR	7.49Y	124.8	0.00	0.22	2.04	1	15	4	97	0.00	0.0	1.284	0.020	0	0	0	2
PL.6	PL.296	A	#2 ACSR	7.49Y	124.8	0.00	0.23	2.04	1	15	4	97	0.00	0.0	1.301	0.017	0	0	0	2
PL.55	PL.6	A	#1/0 ACSR	7.49Y	124.8	0.00	0.23	2.04	1	15	4	97	0.00	0.0	1.346	0.045	15	4	2	2
PL.1032	PL.514	ABC	397 SPACER	7.49Y	124.8	0.00	0.23	38.97	7	841	242	96	0.01	0.0	1.295	0.037	0	0	0	183
PL.1329	PL.1032	ABC	#2 HdCu -	7.49Y	124.8	0.00	0.23	12.04	5	258	80	96	0.00	0.0	1.299	0.004	0	0	0	51
PD.177	PL.1329	ABC	150QA	7.49Y	124.8	0.00	0.23	12.04	0	258	80	96	0.00	0.0	1.299	0.004	0	0	0	51
PL.1330	PD.177	ABC	#2 HdCu -	7.49Y	124.8	0.01	0.23	12.04	5	258	80	96	0.01	0.0	1.328	0.029	1	0	1	51
PL.510	PL.1330	ABC	#2 HdCu -	7.49Y	124.8	0.01	0.24	11.98	5	257	79	96	0.01	0.0	1.361	0.033	12	3	3	50
PL.509	PL.510	ABC	#2 HdCu -	7.48Y	124.7	0.01	0.25	11.44	5	245	76	96	0.02	0.0	1.413	0.052	15	4	6	47
PL.508	PL.509	ABC	#2 HdCu -	7.48Y	124.7	0.01	0.26	10.74	4	230	72	95	0.02	0.0	1.481	0.068	14	4	5	41
PL.506	PL.508	ABC	#2 HdCu -	7.48Y	124.7	0.01	0.27	9.70	4	208	66	95	0.01	0.0	1.531	0.050	24	7	7	35
PL.507	PL.506	ABC	#2 HdCu -	7.48Y	124.7	0.01	0.28	8.58	4	183	59	95	0.01	0.0	1.609	0.078	13	4	2	28
PL.1139	PL.507	A	6 A (CWC)	7.48Y	124.7	0.00	0.28	0.25	0	2	1	89	0.00	0.0	1.614	0.005	0	0	0	3
PD.98	PL.1139	A	40QA	7.48Y	124.7	0.00	0.28	0.25	1	2	1	89	0.00	0.0	1.614	0.005	0	0	0	3
PL.1140	PD.98	A	6 A (CWC)	7.48Y	124.7	0.00	0.28	0.25	0	2	1	89	0.00	0.0	1.626	0.012	2	1	3	3
PL.57	PL.507	ABC	#2 HdCu -	7.48Y	124.7	0.00	0.29	7.89	3	168	55	95	0.00	0.0	1.638	0.028	0	0	0	23
PL.467	PL.57	ABC	#2 HdCu -	7.48Y	124.7	0.00	0.29	7.89	3	168	55	95	0.00	0.0	1.666	0.028	23	6	2	23
PL.468	PL.467	ABC	#2 HdCu -	7.48Y	124.7	0.00	0.29	6.83	3	146	49	95	0.00	0.0	1.703	0.037	16	4	2	21
PL.292	PL.468	ABC	#2 HdCu -	7.48Y	124.7	0.01	0.30	5.45	2	116	40	95	0.01	0.0	1.787	0.085	11	3	3	17
PL.1183	PL.292	B	#4 ACSR	7.48Y	124.7	0.00	0.30	1.98	2	14	4	96	0.00	0.0	1.794	0.006	0	0	0	2
PD.120	PL.1183	B	65QA	7.48Y	124.7	0.00	0.30	1.98	0	14	4	96	0.00	0.0	1.794	0.006	0	0	0	2
PL.1184	PD.120	B	#4 ACSR	7.48Y	124.7	0.00	0.31	1.98	2	14	4	96	0.00	0.0	1.841	0.047	14	4	2	2
PL.293	PL.292	ABC	#2 HdCu -	7.48Y	124.7	0.01	0.31	4.27	2	90	33	94	0.00	0.0	1.897	0.109	8	2	1	12
PL.289	PL.293	ABC	#2 HdCu -	7.48Y	124.7	0.01	0.32	3.57	1	75	29	93	0.00	0.0	2.029	0.132	0	0	0	9
PL.1335	PL.289	ABC	#4 ACSR	7.48Y	124.7	0.00	0.32	3.57	3	75	29	93	0.00	0.0	2.032	0.003	0	0	0	9
PD.180	PL.1335	ABC	100QA	7.48Y	124.7	0.00	0.32	3.57	4	75	29	93	0.00	0.0	2.032	0.003	0	0	0	9
PL.1336	PD.180	ABC	#4 ACSR	7.48Y	124.7	0.01	0.33	3.57	3	75	29	93	0.01	0.0	2.115	0.083	6	2	2	9
PL.66	PL.1336	ABC	#4 ACSR	7.48Y	124.7	0.00	0.33	1.98	2	40	19	90	0.00	0.0	2.122	0.007	40	19	1	1
PL.1339	PL.1336	A	#4 ACSR	7.48Y	124.7	0.00	0.33	1.48	1	11	3	96	0.00	0.0	2.118	0.003	0	0	0	3
PD.182	PL.1339	A	15T	7.48Y	124.7	0.00	0.33	1.48	0	11	3	96	0.00	0.0	2.118	0.003	0	0	0	3

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-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1340	PD.182	A	#4 ACSR	7.48Y	124.7	0.01	0.34	1.48	1	11	3	96	0.00	0.0	2.217	0.099	0	0	0	3
PL.67	PL.1340	A	#4 ACSR	7.48Y	124.7	0.00	0.34	0.95	1	7	2	96	0.00	0.0	2.253	0.036	7	2	1	1
PL.69	PL.1340	A	#1/0 ACSR	7.48Y	124.7	0.00	0.34	0.54	0	4	1	97	0.00	0.0	2.263	0.046	0	0	0	2
PL.68	PL.69	A	#1/0 ACSR	7.48Y	124.7	0.00	0.34	0.00	0	0	0	100	0.00	0.0	2.277	0.014	0	0	0	0
PL.70	PL.69	A	#1/0 ACSR	7.48Y	124.7	0.00	0.34	0.54	0	4	1	97	0.00	0.0	2.343	0.081	4	1	2	2
PL.1337	PL.1336	A	#4 ACSR	7.48Y	124.7	0.00	0.33	2.44	2	18	5	96	0.00	0.0	2.118	0.003	0	0	0	3
PD.181	PL.1337	A	65QA	7.48Y	124.7	0.00	0.33	2.44	0	18	5	96	0.00	0.0	2.118	0.003	0	0	0	3
PL.1338	PD.181	A	#4 ACSR	7.48Y	124.7	0.00	0.33	2.44	2	18	5	96	0.00	0.0	2.167	0.049	11	3	2	3
PL.918	PL.1338	A	#4 ACSR	7.48Y	124.7	0.00	0.34	0.91	1	7	2	96	0.00	0.0	2.207	0.040	7	2	1	1
PL.1333	PL.293	A	#4 ACSR	7.48Y	124.7	0.00	0.31	1.06	1	8	2	97	0.00	0.0	1.900	0.003	0	0	0	2
PD.179	PL.1333	A	40QA	7.48Y	124.7	0.00	0.31	1.06	3	8	2	97	0.00	0.0	1.900	0.003	0	0	0	2
PL.1334	PD.179	A	#4 ACSR	7.48Y	124.7	0.00	0.31	1.06	1	8	2	97	0.00	0.0	1.902	0.002	0	0	0	2
PL.99	PL.1334	A	#4 ACSR	7.48Y	124.7	0.00	0.31	0.00	0	0	0	100	0.00	0.0	1.942	0.040	0	0	1	1
PL.286	PL.1334	A	#1/0 ACSR	7.48Y	124.7	0.00	0.31	1.06	0	8	2	97	0.00	0.0	1.907	0.005	0	0	0	1
PL.65	PL.286	A	#1/0 ACSR	7.48Y	124.7	0.00	0.31	1.06	0	8	2	97	0.00	0.0	1.931	0.024	8	2	1	1
PL.1331	PL.468	A	#4 ACSR	7.48Y	124.7	0.00	0.30	1.89	1	14	4	96	0.00	0.0	1.706	0.003	0	0	0	2
PD.178	PL.1331	A	65QA	7.48Y	124.7	0.00	0.30	1.89	0	14	4	96	0.00	0.0	1.706	0.003	0	0	0	2
PL.1332	PD.178	A	6 A (CWC)	7.48Y	124.7	0.00	0.30	1.89	1	14	4	96	0.00	0.0	1.761	0.055	0	0	0	2
PL.466	PL.1332	A	#4 ACSR	7.48Y	124.7	0.00	0.30	1.89	1	14	4	96	0.00	0.0	1.784	0.023	14	4	2	2
PL.916	PL.508	C	#1/0 ACSR	7.48Y	124.7	0.00	0.26	1.14	0	8	2	97	0.00	0.0	1.524	0.043	8	2	1	1
PL.512	PL.1032	ABC	397 SPACER	7.49Y	124.8	0.01	0.24	26.93	5	583	162	96	0.01	0.0	1.397	0.102	0	0	0	132
PL.568	PL.512	A	#4 ACSR	7.48Y	124.7	0.03	0.27	25.02	19	181	50	96	0.04	0.0	1.427	0.030	0	0	0	41
PL.1261	PL.568	A	#4 ACSR	7.48Y	124.7	0.00	0.27	25.02	19	180	50	96	0.00	0.0	1.430	0.003	0	0	0	41
PD.144	PL.1261	A	50L	7.48Y	124.7	0.00	0.27	25.02	50	180	50	96	0.00	0.0	1.430	0.003	0	0	0	41
PL.1262	PD.144	A	#4 ACSR	7.48Y	124.7	0.03	0.30	25.02	19	180	50	96	0.04	0.0	1.460	0.030	19	5	6	41
PL.82	PL.1262	A	#4 ACSR	7.48Y	124.6	0.07	0.37	22.36	17	161	45	96	0.08	0.0	1.530	0.070	14	4	3	35
PL.81	PL.82	A	#4 ACSR	7.48Y	124.6	0.04	0.41	17.49	13	126	35	96	0.04	0.0	1.584	0.053	14	4	5	27
PL.921	PL.81	A	#4 ACSR	7.48Y	124.6	0.00	0.41	5.14	4	37	10	97	0.00	0.0	1.597	0.013	0	0	0	9
PL.922	PL.921	A	#4 ACSR	7.47Y	124.6	0.00	0.42	5.14	4	37	10	97	0.00	0.0	1.624	0.026	22	6	4	9
PL.79	PL.922	A	#4 ACSR	7.47Y	124.6	0.00	0.42	0.90	1	7	2	96	0.00	0.0	1.654	0.031	0	0	0	3
PL.78	PL.79	A	#4 ACSR	7.47Y	124.6	0.00	0.42	0.90	1	7	2	96	0.00	0.0	1.708	0.054	6	2	2	3

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.77	PL.78	A	#4 ACSR	7.47Y	124.6	0.00	0.42	0.01	0	0	0	100	0.00	0.0	1.763	0.056	0	0	1	1
PL.83	PL.922	A	#4 ACSR	7.47Y	124.6	0.00	0.42	1.12	1	8	2	97	0.00	0.0	1.627	0.003	0	0	0	2
PL.80	PL.83	A	#4 ACSR	7.47Y	124.6	0.00	0.42	1.12	1	8	2	97	0.00	0.0	1.691	0.064	8	2	2	2
PL.570	PL.81	A	#4 ACSR	7.47Y	124.6	0.02	0.43	10.47	8	75	21	96	0.01	0.0	1.625	0.041	0	0	0	13
PL.571	PL.570	A	#4 ACSR	7.47Y	124.6	0.02	0.45	10.47	8	75	21	96	0.01	0.0	1.668	0.044	15	4	2	13
PL.76	PL.571	A	#4 ACSR	7.47Y	124.5	0.02	0.47	8.43	6	61	17	96	0.01	0.0	1.727	0.058	7	2	1	11
PL.294	PL.76	A	#4 ACSR	7.47Y	124.5	0.02	0.49	7.46	6	54	15	96	0.01	0.0	1.789	0.062	0	0	0	10
PL.295	PL.294	A	#4 ACSR	7.47Y	124.5	0.03	0.51	7.46	6	54	15	96	0.01	0.0	1.869	0.081	5	2	1	10
PL.89	PL.295	A	#4 ACSR	7.47Y	124.5	0.00	0.52	1.42	1	10	3	96	0.00	0.0	1.901	0.032	10	3	1	1
PL.87	PL.295	A	#4 ACSR	7.47Y	124.5	0.02	0.53	4.13	3	30	8	97	0.00	0.0	1.964	0.095	0	0	1	7
PL.574	PL.87	A	#4 ACSR	7.47Y	124.5	0.01	0.54	4.13	3	30	8	97	0.00	0.0	2.043	0.079	17	5	2	6
PL.575	PL.574	A	#4 ACSR	7.47Y	124.5	0.00	0.55	1.79	1	13	4	96	0.00	0.0	2.096	0.053	6	2	1	4
PL.576	PL.575	A	#4 ACSR	7.47Y	124.5	0.00	0.55	0.96	1	7	2	96	0.00	0.0	2.107	0.011	5	1	2	3
PL.86	PL.576	A	#4 ACSR	7.47Y	124.5	0.00	0.55	0.23	0	2	0	100	0.00	0.0	2.169	0.062	0	0	0	1
PL.578	PL.86	A	#4 ACSR	7.47Y	124.5	0.00	0.55	0.23	0	2	0	100	0.00	0.0	2.236	0.067	0	0	0	1
PL.579	PL.578	A	#4 ACSR	7.47Y	124.5	0.00	0.55	0.23	0	2	0	100	0.00	0.0	2.308	0.072	0	0	0	1
PL.577	PL.579	A	#4 ACSR	7.47Y	124.5	0.00	0.55	0.23	0	2	0	100	0.00	0.0	2.359	0.051	2	0	1	1
PL.88	PL.295	A	#4 ACSR	7.47Y	124.5	0.00	0.52	1.16	1	8	2	97	0.00	0.0	1.923	0.054	8	2	1	1
PL.85	PL.82	A	8 A (CWC)	7.48Y	124.6	0.01	0.38	2.93	3	21	6	96	0.00	0.0	1.562	0.032	5	1	1	5
PL.84	PL.85	A	8 A (CWC)	7.48Y	124.6	0.00	0.38	2.22	2	16	4	97	0.00	0.0	1.595	0.033	5	1	2	4
PL.572	PL.84	A	#1/0 ACSR	7.48Y	124.6	0.00	0.38	1.58	1	11	3	96	0.00	0.0	1.602	0.007	0	0	0	2
PL.573	PL.572	A	#1/0 ACSR	7.48Y	124.6	0.00	0.38	1.58	1	11	3	96	0.00	0.0	1.626	0.024	11	3	2	2
PL.502	PL.512	ABC	397 SPACER	7.49Y	124.8	0.01	0.24	18.59	4	402	112	96	0.00	0.0	1.493	0.096	0	0	0	91
PL.504	PL.502	ABC	397 SPACER	7.49Y	124.8	0.01	0.25	18.53	4	401	112	96	0.01	0.0	1.624	0.131	0	0	0	90
PL.1143	PL.504	A	#4 ACSR	7.49Y	124.8	0.00	0.25	0.00	0	0	0	100	0.00	0.0	1.628	0.004	0	0	0	0
PD.100	PL.1143	A	40QA	7.49Y	124.8	0.00	0.25	0.00	0	0	0	100	0.00	0.0	1.628	0.004	0	0	0	0
PL.1144	PD.100	A	#4 ACSR	7.49Y	124.8	0.00	0.25	0.00	0	0	0	100	0.00	0.0	1.635	0.007	0	0	0	0
PL.499	PL.504	ABC	397 SPACER	7.48Y	124.7	0.01	0.26	18.53	4	401	112	96	0.01	0.0	1.789	0.165	0	0	0	90
PL.494	PL.499	ABC	397 SPACER	7.48Y	124.7	0.01	0.27	18.53	4	401	111	96	0.01	0.0	2.048	0.260	7	2	1	90
PL.487	PL.494	ABC	397 SPACER	7.48Y	124.7	0.00	0.28	18.20	4	394	109	96	0.00	0.0	2.117	0.068	0	0	0	89
PL.485	PL.487	ABC	397 SPACER	7.48Y	124.7	0.01	0.28	18.20	4	394	109	96	0.00	0.0	2.225	0.108	8	2	1	89

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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.100	PL.485	ABC	397 SPACER	7.48Y	124.7	0.00	0.28	17.85	3	386	107	96	0.00	0.0	2.241	0.016	5	1	1	88
PL.482	PL.100	ABC	397 SPACER	7.48Y	124.7	0.00	0.29	17.13	3	371	103	96	0.00	0.0	2.312	0.072	8	2	1	84
PL.480	PL.482	ABC	397 SPACER	7.48Y	124.7	0.00	0.29	16.75	3	362	101	96	0.00	0.0	2.371	0.059	0	0	0	83
PL.478	PL.480	ABC	336 MCM AC	7.48Y	124.7	0.01	0.29	16.75	3	362	101	96	0.01	0.0	2.416	0.045	0	0	0	83
PL.1349	PL.478	ABC	336 MCM AC	7.48Y	124.7	0.01	0.30	16.75	3	362	101	96	0.01	0.0	2.460	0.045	0	0	0	83
PL.58	PL.1349	ABC	336 MCM AC	7.48Y	124.7	0.00	0.30	15.46	3	334	93	96	0.01	0.0	2.487	0.027	0	0	0	78
PL.1352	PL.58	C	#1/0 ACSR	7.48Y	124.7	0.00	0.30	2.37	1	17	5	96	0.00	0.0	2.490	0.003	0	0	0	3
PD.187	PL.1352	C	65QA	7.48Y	124.7	0.00	0.30	2.37	0	17	5	96	0.00	0.0	2.490	0.003	0	0	0	3
PL.1353	PD.187	C	#1/0 ACSR	7.48Y	124.7	0.02	0.32	2.37	1	17	5	96	0.00	0.0	2.863	0.373	0	0	0	3
PL.17	PL.1353	C	#4 ACSR	7.48Y	124.7	0.00	0.33	1.87	1	13	4	96	0.00	0.0	2.904	0.041	13	4	2	2
PL.18	PL.1353	C	#4 ACSR	7.48Y	124.7	0.00	0.32	0.51	0	4	1	97	0.00	0.0	2.948	0.084	4	1	1	1
PL.1148	PL.58	ABC	336 MCM AC	7.48Y	124.7	0.01	0.31	14.66	3	317	88	96	0.02	0.0	2.595	0.108	0	0	0	75
PL.59	PL.1148	ABC	336 MCM AC	7.48Y	124.7	0.00	0.32	14.60	3	316	88	96	0.01	0.0	2.623	0.029	0	0	0	74
PL.472	PL.59	ABC	336 MCM AC	7.48Y	124.7	0.01	0.33	14.49	3	313	87	96	0.01	0.0	2.705	0.082	0	0	0	73
PL.1358	PL.472	A	#1/0 ACSR	7.48Y	124.7	0.00	0.33	0.43	0	3	1	95	0.00	0.0	2.709	0.003	0	0	0	2
PD.190	PL.1358	A	40QA	7.48Y	124.7	0.00	0.33	0.43	1	3	1	95	0.00	0.0	2.709	0.003	0	0	0	2
PL.1359	PD.190	A	#1/0 ACSR	7.48Y	124.7	0.00	0.33	0.43	0	3	1	95	0.00	0.0	2.721	0.012	3	1	2	2
PL.439	PL.472	ABC	336 MCM AC	7.48Y	124.7	0.00	0.33	14.35	3	310	86	96	0.00	0.0	2.733	0.027	1	0	1	71
PL.440	PL.439	ABC	336 MCM AC	7.48Y	124.7	0.00	0.33	14.31	3	309	86	96	0.00	0.0	2.759	0.027	0	0	0	70
PL.13	PL.440	ABC	336 MCM AC	7.48Y	124.7	0.00	0.34	13.72	3	297	82	96	0.01	0.0	2.805	0.046	0	0	0	68
PL.19	PL.13	A	#1/0 ACSR	7.48Y	124.7	0.00	0.34	0.83	0	6	2	95	0.00	0.0	2.831	0.026	6	2	1	1
PL.441	PL.13	ABC	336 MCM AC	7.48Y	124.7	0.01	0.35	13.45	3	291	81	96	0.02	0.0	2.916	0.111	0	0	0	67
PL.444	PL.441	ABC	336 MCM AC	7.48Y	124.6	0.00	0.35	13.45	3	291	81	96	0.00	0.0	2.940	0.024	3	1	1	67
PL.445	PL.444	ABC	336 MCM AC	7.48Y	124.6	0.01	0.36	13.33	3	288	80	96	0.01	0.0	2.994	0.054	0	0	0	66
PL.447	PL.445	ABC	336 MCM AC	7.48Y	124.6	0.01	0.36	13.03	3	282	78	96	0.01	0.0	3.074	0.080	6	2	1	63
PL.449	PL.447	ABC	336 MCM AC	7.48Y	124.6	0.01	0.37	12.78	2	276	77	96	0.01	0.0	3.178	0.103	0	0	0	62
PL.15	PL.449	ABC	336 MCM AC	7.48Y	124.6	0.01	0.38	12.65	2	273	76	96	0.01	0.0	3.236	0.058	0	0	0	60
PL.453	PL.15	ABC	336 MCM AC	7.48Y	124.6	0.01	0.38	12.65	2	273	76	96	0.01	0.0	3.290	0.054	3	1	2	60
PL.454	PL.453	ABC	336 MCM AC	7.48Y	124.6	0.00	0.39	12.49	2	270	75	96	0.01	0.0	3.342	0.053	0	0	0	58
PL.455	PL.454	ABC	336 MCM AC	7.48Y	124.6	0.01	0.40	11.93	2	258	71	96	0.01	0.0	3.433	0.090	0	0	0	56
PL.1161	PL.455	A	#1/0 ACSR	7.48Y	124.6	0.00	0.40	1.72	1	12	3	97	0.00	0.0	3.437	0.005	0	0	0	2

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.109	PL.1161	A	40QA	7.48Y	124.6	0.00	0.40	1.72	4	12	3	97	0.00	0.0	3.437	0.005	0	0	0	2
PL.1162	PD.109	A	#1/0 ACSR	7.48Y	124.6	0.00	0.40	1.72	1	12	3	97	0.00	0.0	3.447	0.010	12	3	2	2
PL.458	PL.455	ABC	336 MCM AC	7.48Y	124.6	0.01	0.41	11.36	2	246	68	96	0.01	0.0	3.547	0.115	0	0	0	54
PL.1165	PL.458	A	#1/0 ACSR	7.48Y	124.6	0.00	0.41	0.33	0	2	1	89	0.00	0.0	3.552	0.005	0	0	0	1
PD.111	PL.1165	A	40QA	7.48Y	124.6	0.00	0.41	0.33	1	2	1	89	0.00	0.0	3.552	0.005	0	0	0	1
PL.1166	PD.111	A	#1/0 ACSR	7.48Y	124.6	0.00	0.41	0.33	0	2	1	89	0.00	0.0	3.588	0.037	2	1	1	1
PL.436	PL.458	ABC	336 MCM AC	7.48Y	124.6	0.00	0.41	9.24	2	200	55	96	0.00	0.0	3.599	0.052	5	1	1	44
PL.437	PL.436	ABC	336 MCM AC	7.47Y	124.6	0.01	0.42	9.00	2	194	54	96	0.01	0.0	3.708	0.108	0	0	0	43
PL.246	PL.437	ABC	336 MCM AC	7.47Y	124.6	0.00	0.42	9.00	2	194	54	96	0.00	0.0	3.762	0.054	0	0	0	43
PL.1021	PL.246	C	#1/0 ACSR	7.47Y	124.6	0.00	0.42	2.38	1	17	5	96	0.00	0.0	3.766	0.005	0	0	0	4
PD.36	PL.1021	C	40QA	7.47Y	124.6	0.00	0.42	2.38	6	17	5	96	0.00	0.0	3.766	0.005	0	0	0	4
PL.1022	PD.36	C	#1/0 ACSR	7.47Y	124.6	0.00	0.42	2.38	1	17	5	96	0.00	0.0	3.786	0.020	17	5	4	4
PL.16	PL.246	ABC	336 MCM AC	7.47Y	124.6	0.00	0.42	8.20	2	177	49	96	0.00	0.0	3.816	0.054	0	0	0	39
PL.1171	PL.16	C	#1/0 ACSR	7.47Y	124.6	0.00	0.42	0.53	0	4	1	97	0.00	0.0	3.821	0.005	0	0	0	2
PD.114	PL.1171	C	40QA	7.47Y	124.6	0.00	0.42	0.53	1	4	1	97	0.00	0.0	3.821	0.005	0	0	0	2
PL.1172	PD.114	C	#1/0 ACSR	7.47Y	124.6	0.00	0.42	0.53	0	4	1	97	0.00	0.0	3.837	0.016	4	1	2	2
PL.433	PL.16	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	8.03	2	173	48	96	0.00	0.0	3.865	0.049	6	2	1	37
PL.434	PL.433	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	7.76	1	168	46	96	0.00	0.0	3.904	0.038	8	2	1	36
PL.431	PL.434	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	3.30	1	71	20	96	0.00	0.0	3.919	0.016	0	0	0	14
PL.10586	PL.431	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	3.30	1	71	20	96	0.00	0.0	3.969	0.050	5	1	1	14
PL.10587	PL.10586	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	3.09	1	67	18	97	0.00	0.0	4.021	0.051	7	2	1	13
PL.10585	PL.10587	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	2.77	1	60	17	96	0.00	0.0	4.060	0.039	0	0	0	12
PL.412	PL.10585	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	1.36	0	29	8	96	0.00	0.0	4.155	0.095	1	0	1	8
PL.416	PL.412	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	1.31	0	28	8	96	0.00	0.0	4.199	0.043	0	0	0	7
PL.417	PL.416	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	0.48	0	10	3	96	0.00	0.0	4.347	0.148	0	0	0	3
PL.421	PL.417	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	0.20	0	4	1	97	0.00	0.0	4.493	0.146	0	0	0	2
PL.65780	PL.421	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	0.09	0	2	1	89	0.00	0.0	4.548	0.055	0	0	0	1
PL.65781	PL.65780	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	0.09	0	2	1	89	0.00	0.0	4.700	0.152	2	1	1	1
PL.1371	PL.65781	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	4.747	0.046	0	0	0	0
PL.1372	PL.1371	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	4.749	0.003	0	0	0	0
PD.147-A	PL.1372	ABC	Open	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	4.749	0.003	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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1017	PL.421	A	#1/0 ACSR	7.47Y	124.6	0.00	0.43	0.33	0	2	1	89	0.00	0.0	4.498	0.005	0	0	0	1
PD.34	PL.1017	A	40QA	7.47Y	124.6	0.00	0.43	0.33	1	2	1	89	0.00	0.0	4.498	0.005	0	0	0	1
PL.1018	PD.34	A	#1/0 ACSR	7.47Y	124.6	0.00	0.43	0.33	0	2	1	89	0.00	0.0	4.506	0.008	2	1	1	1
PL.1369	PL.417	C	6 A (CWC)	7.47Y	124.6	0.00	0.43	0.83	1	6	2	95	0.00	0.0	4.350	0.003	0	0	0	1
PD.195	PL.1369	C	40QA	7.47Y	124.6	0.00	0.43	0.83	2	6	2	95	0.00	0.0	4.350	0.003	0	0	0	1
PL.1370	PD.195	C	6 A (CWC)	7.47Y	124.6	0.00	0.44	0.83	1	6	2	95	0.00	0.0	4.402	0.052	6	2	1	1
PL.1173	PL.416	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	4.203	0.005	0	0	0	0
PD.115	PL.1173	C	40QA	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	4.203	0.005	0	0	0	0
PL.1174	PD.115	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	4.212	0.009	0	0	0	0
PL.1175	PL.416	A	#1/0 ACSR	7.47Y	124.6	0.00	0.43	2.50	1	18	5	96	0.00	0.0	4.203	0.005	0	0	0	4
PD.116	PL.1175	A	40QA	7.47Y	124.6	0.00	0.43	2.50	6	18	5	96	0.00	0.0	4.203	0.005	0	0	0	4
PL.1176	PD.116	A	#1/0 ACSR	7.47Y	124.6	0.00	0.44	2.50	1	18	5	96	0.00	0.0	4.226	0.022	4	1	1	4
PL.413	PL.1176	A	#4 ACSR	7.47Y	124.6	0.00	0.44	2.01	2	14	4	96	0.00	0.0	4.254	0.028	8	2	2	3
PL.414	PL.413	A	#4 ACSR	7.47Y	124.6	0.00	0.44	0.85	1	6	2	95	0.00	0.0	4.286	0.032	6	2	1	1
PL.1167	PL.10585	A	#1/0 ACSR	7.47Y	124.6	0.00	0.43	1.08	0	8	2	97	0.00	0.0	4.065	0.005	0	0	0	3
PD.112	PL.1167	A	25T	7.47Y	124.6	0.00	0.43	1.08	0	8	2	97	0.00	0.0	4.065	0.005	0	0	0	3
PL.1168	PD.112	A	#1/0 ACSR	7.47Y	124.6	0.00	0.43	1.08	0	8	2	97	0.00	0.0	4.082	0.017	8	2	3	3
PL.1169	PL.10585	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	3.16	1	23	6	97	0.00	0.0	4.065	0.005	0	0	0	1
PD.113	PL.1169	C	40QA	7.47Y	124.6	0.00	0.43	3.16	8	23	6	97	0.00	0.0	4.065	0.005	0	0	0	1
PL.1170	PD.113	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	3.16	1	23	6	97	0.00	0.0	4.082	0.017	0	0	0	1
PL.20	PL.1170	C	#1/0 ACSR	7.47Y	124.6	0.00	0.44	3.16	1	23	6	97	0.00	0.0	4.125	0.043	23	6	1	1
PL.1019	PL.434	B	#1/0 ACSR	7.47Y	124.6	0.00	0.43	12.24	5	88	24	96	0.00	0.0	3.908	0.005	0	0	0	21
PD.35	PL.1019	B	30T	7.47Y	124.6	0.00	0.43	12.24	0	88	24	96	0.00	0.0	3.908	0.005	0	0	0	21
PL.1020	PD.35	B	#1/0 ACSR	7.47Y	124.5	0.02	0.45	12.24	5	88	24	96	0.01	0.0	3.982	0.073	10	3	2	21
PL.430	PL.1020	B	#1/0 ACSR	7.47Y	124.5	0.02	0.47	10.82	5	78	22	96	0.01	0.0	4.085	0.104	10	3	1	19
PL.73	PL.430	B	8 A (CWC)	7.47Y	124.5	0.06	0.54	9.38	9	68	19	96	0.03	0.0	4.186	0.101	0	0	1	18
PL.428	PL.73	B	#4 ACSR	7.47Y	124.4	0.01	0.55	9.38	7	68	19	96	0.01	0.0	4.222	0.036	8	2	3	17
PL.566	PL.428	B	#4 ACSR	7.46Y	124.4	0.04	0.59	8.26	6	59	16	97	0.02	0.0	4.343	0.121	3	1	2	14
PL.565	PL.566	B	#4 ACSR	7.46Y	124.4	0.01	0.61	7.84	6	56	16	96	0.01	0.0	4.383	0.040	5	1	2	12
PL.74	PL.565	B	#4 ACSR	7.46Y	124.4	0.00	0.61	0.64	0	5	1	98	0.00	0.0	4.405	0.022	5	1	2	2
PL.563	PL.565	B	#4 ACSR	7.46Y	124.4	0.02	0.63	6.52	5	47	13	96	0.01	0.0	4.466	0.083	9	3	1	8

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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.919	PL.563	B	#4 ACSR	7.46Y	124.4	0.01	0.64	5.26	4	38	10	97	0.00	0.0	4.507	0.041	0	0	0	7
PL.564	PL.919	B	#4 ACSR	7.46Y	124.4	0.01	0.65	5.26	4	38	10	97	0.00	0.0	4.545	0.038	6	2	1	7
PL.562	PL.564	B	#4 ACSR	7.46Y	124.3	0.02	0.66	4.41	3	32	9	96	0.00	0.0	4.637	0.091	7	2	2	6
PL.561	PL.562	B	#4 ACSR	7.46Y	124.3	0.01	0.68	3.44	3	25	7	96	0.00	0.0	4.713	0.077	0	0	0	4
PL.557	PL.561	B	#4 ACSR	7.46Y	124.3	0.01	0.68	2.86	2	21	6	96	0.00	0.0	4.851	0.137	21	6	3	3
PL.559	PL.561	B	#1/0 ACSR	7.46Y	124.3	0.00	0.68	0.58	0	4	1	97	0.00	0.0	4.760	0.046	4	1	1	1
PL.1163	PL.458	C	#1/0 ACSR	7.48Y	124.6	0.00	0.41	6.02	3	43	12	96	0.00	0.0	3.552	0.005	0	0	0	9
PD.110	PL.1163	C	40QA	7.48Y	124.6	0.00	0.41	6.02	15	43	12	96	0.00	0.0	3.552	0.005	0	0	0	9
PL.1164	PD.110	C	#1/0 ACSR	7.48Y	124.6	0.00	0.41	6.02	3	43	12	96	0.00	0.0	3.568	0.017	0	0	0	9
PL.465	PL.1164	C	#1/0 ACSR	7.48Y	124.6	0.00	0.41	6.02	3	43	12	96	0.00	0.0	3.602	0.034	17	5	4	9
PL.464	PL.465	C	6 A (CWC)	7.47Y	124.6	0.01	0.42	3.67	3	26	7	97	0.00	0.0	3.645	0.043	6	2	1	5
PL.914	PL.464	C	6 A (CWC)	7.47Y	124.6	0.01	0.42	2.77	2	20	6	96	0.00	0.0	3.694	0.049	7	2	2	4
PL.463	PL.914	C	6 A (CWC)	7.47Y	124.6	0.00	0.43	1.83	1	13	4	96	0.00	0.0	3.756	0.062	9	3	1	2
PL.462	PL.463	C	6 A (CWC)	7.47Y	124.6	0.00	0.43	0.54	0	4	1	97	0.00	0.0	3.810	0.054	0	0	0	1
PL.461	PL.462	C	6 A (CWC)	7.47Y	124.6	0.00	0.43	0.54	0	4	1	97	0.00	0.0	3.833	0.023	4	1	1	1
PL.460	PL.461	C	6 A (CWC)	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	3.929	0.096	0	0	0	0
PL.1159	PL.454	A	#1/0 ACSR	7.48Y	124.6	0.00	0.39	1.68	1	12	3	97	0.00	0.0	3.347	0.005	0	0	0	2
PD.108	PL.1159	A	40QA	7.48Y	124.6	0.00	0.39	1.68	4	12	3	97	0.00	0.0	3.347	0.005	0	0	0	2
PL.1160	PD.108	A	#1/0 ACSR	7.48Y	124.6	0.00	0.39	1.68	1	12	3	97	0.00	0.0	3.375	0.028	12	3	2	2
PL.911	PL.1160	A	#2 ACSR	7.48Y	124.6	0.00	0.39	0.00	0	0	0	100	0.00	0.0	3.401	0.026	0	0	0	0
PL.912	PL.911	A	#2 ACSR	7.48Y	124.6	0.00	0.39	0.00	0	0	0	100	0.00	0.0	3.417	0.016	0	0	0	0
PL.1157	PL.15	A	#1/0 ACSR	7.48Y	124.6	0.00	0.38	0.00	0	0	0	100	0.00	0.0	3.240	0.005	0	0	0	0
PD.107	PL.1157	A	40QA	7.48Y	124.6	0.00	0.38	0.00	0	0	0	100	0.00	0.0	3.240	0.005	0	0	0	0
PL.1158	PD.107	A	#1/0 ACSR	7.48Y	124.6	0.00	0.38	0.00	0	0	0	100	0.00	0.0	3.251	0.010	0	0	0	0
PL.1155	PL.449	A	#1/0 ACSR	7.48Y	124.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	3.182	0.005	0	0	0	0
PD.106	PL.1155	A	40QA	7.48Y	124.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	3.182	0.005	0	0	0	0
PL.1156	PD.106	A	#1/0 ACSR	7.48Y	124.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	3.199	0.017	0	0	0	0
PL.1153	PL.449	C	#1/0 ACSR	7.48Y	124.6	0.00	0.37	0.38	0	3	1	95	0.00	0.0	3.182	0.005	0	0	0	2
PD.105	PL.1153	C	40QA	7.48Y	124.6	0.00	0.37	0.38	1	3	1	95	0.00	0.0	3.182	0.005	0	0	0	2
PL.1154	PD.105	C	#1/0 ACSR	7.48Y	124.6	0.00	0.37	0.38	0	3	1	95	0.00	0.0	3.210	0.028	3	1	2	2
PL.1367	PL.445	C	#1/0 ACSR	7.48Y	124.6	0.00	0.36	0.88	0	6	2	95	0.00	0.0	2.997	0.003	0	0	0	3

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.194	PL.1367	C	40QA	7.48Y	124.6	0.00	0.36	0.88	2	6	2	95	0.00	0.0	2.997	0.003	0	0	0	3
PL.1368	PD.194	C	#1/0 ACSR	7.48Y	124.6	0.00	0.36	0.88	0	6	2	95	0.00	0.0	3.028	0.031	4	1	2	3
PL.450	PL.1368	C	#1/0 ACSR	7.48Y	124.6	0.00	0.36	0.38	0	3	1	95	0.00	0.0	3.082	0.053	3	1	1	1
PL.1365	PL.441	C	336 MCM AC	7.48Y	124.7	0.00	0.35	0.00	0	0	0	100	0.00	0.0	2.918	0.001	0	0	0	0
PL.1360	PL.440	C	#1/0 ACSR	7.48Y	124.7	0.00	0.33	1.75	1	13	3	97	0.00	0.0	2.763	0.003	0	0	0	2
PD.191	PL.1360	C	40QA	7.48Y	124.7	0.00	0.33	1.75	4	13	3	97	0.00	0.0	2.763	0.003	0	0	0	2
PL.1361	PD.191	C	#1/0 ACSR	7.48Y	124.7	0.00	0.33	1.75	1	13	3	97	0.00	0.0	2.781	0.018	13	3	2	2
PL.1356	PL.59	C	#1/0 ACSR	7.48Y	124.7	0.00	0.32	0.33	0	2	1	89	0.00	0.0	2.627	0.003	0	0	0	1
PD.189	PL.1356	C	40QA	7.48Y	124.7	0.00	0.32	0.33	1	2	1	89	0.00	0.0	2.627	0.003	0	0	0	1
PL.1357	PD.189	C	#1/0 ACSR	7.48Y	124.7	0.00	0.32	0.33	0	2	1	89	0.00	0.0	2.641	0.015	2	1	1	1
PL.1354	PL.1148	C	#1/0 ACSR	7.48Y	124.7	0.00	0.31	0.19	0	1	0	100	0.00	0.0	2.598	0.003	0	0	0	1
PD.188	PL.1354	C	40QA	7.48Y	124.7	0.00	0.31	0.19	0	1	0	100	0.00	0.0	2.598	0.003	0	0	0	1
PL.1355	PD.188	C	#1/0 ACSR	7.48Y	124.7	0.00	0.31	0.19	0	1	0	100	0.00	0.0	2.631	0.033	1	0	1	1
PL.72	PL.1349	C	#1/0 ACSR	7.48Y	124.7	0.00	0.30	3.90	2	28	8	96	0.00	0.0	2.470	0.010	7	2	2	5
PL.1350	PL.72	C	8 A (CWC)	7.48Y	124.7	0.00	0.30	2.97	3	21	6	96	0.00	0.0	2.473	0.003	0	0	0	3
PD.186	PL.1350	C	25T	7.48Y	124.7	0.00	0.30	2.97	0	21	6	96	0.00	0.0	2.473	0.003	0	0	0	3
PL.1351	PD.186	C	8 A (CWC)	7.48Y	124.7	0.01	0.31	2.97	3	21	6	96	0.00	0.0	2.515	0.042	0	0	0	3
PL.547	PL.1351	C	8 A (CWC)	7.48Y	124.7	0.01	0.32	2.01	2	14	4	96	0.00	0.0	2.620	0.105	9	2	1	2
PL.544	PL.547	C	#4 ACSR	7.48Y	124.7	0.01	0.32	0.81	1	6	2	95	0.00	0.0	2.916	0.296	6	2	1	1
PL.549	PL.1351	C	#1/0 ACSR	7.48Y	124.7	0.00	0.31	0.96	0	7	2	96	0.00	0.0	2.570	0.055	7	2	1	1
PL.1282	PL.100	A	#4 ACSR	7.48Y	124.7	0.00	0.28	1.52	1	11	3	96	0.00	0.0	2.244	0.003	0	0	0	3
PD.159	PL.1282	A	65QA	7.48Y	124.7	0.00	0.28	1.52	0	11	3	96	0.00	0.0	2.244	0.003	0	0	0	3
PL.1283	PD.159	A	#4 ACSR	7.48Y	124.7	0.00	0.28	1.52	1	11	3	96	0.00	0.0	2.246	0.002	0	0	0	3
PL.101	PL.1283	A	#4 ACSR	7.48Y	124.7	0.00	0.28	0.00	0	0	0	100	0.00	0.0	2.262	0.016	0	0	0	0
PL.285	PL.1283	A	8 A (CWC)	7.48Y	124.7	0.00	0.28	1.52	2	11	3	96	0.00	0.0	2.265	0.019	0	0	0	3
PL.553	PL.285	A	8 A (CWC)	7.48Y	124.7	0.00	0.29	1.52	2	11	3	96	0.00	0.0	2.288	0.023	10	3	2	3
PL.554	PL.553	A	8 A (CWC)	7.48Y	124.7	0.00	0.29	0.17	0	1	0	100	0.00	0.0	2.329	0.041	0	0	0	1
PL.552	PL.554	A	8 A (CWC)	7.48Y	124.7	0.00	0.29	0.17	0	1	0	100	0.00	0.0	2.369	0.041	0	0	0	1
PL.551	PL.552	A	8 A (CWC)	7.48Y	124.7	0.00	0.29	0.17	0	1	0	100	0.00	0.0	2.408	0.039	1	0	1	1
PL.1341	PL.502	B	#4 ACSR	7.49Y	124.8	0.00	0.24	0.20	0	1	0	100	0.00	0.0	1.495	0.003	0	0	0	1
PD.183	PL.1341	B	40QA	7.49Y	124.8	0.00	0.24	0.20	1	1	0	100	0.00	0.0	1.495	0.003	0	0	0	1

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1342	PD.183	B	#4 ACSR	7.49Y	124.8	0.00	0.24	0.20	0	1	0	100	0.00	0.0	1.511	0.015	1	0	1	1
PL.1325	PL.54	A	#2 ACSR	7.49Y	124.8	0.00	0.21	1.60	1	12	3	97	0.00	0.0	1.190	0.004	0	0	0	2
PD.175	PL.1325	A	40QA	7.49Y	124.8	0.00	0.21	1.60	4	12	3	97	0.00	0.0	1.190	0.004	0	0	0	2
PL.1326	PD.175	A	#2 ACSR	7.49Y	124.8	0.00	0.21	1.60	1	12	3	97	0.00	0.0	1.211	0.021	12	3	2	2
PL.1323	PL.53	B	#2 ACSR	7.49Y	124.8	0.00	0.21	0.72	0	5	1	98	0.00	0.0	1.166	0.003	0	0	0	1
PD.174	PL.1323	B	40QA	7.49Y	124.8	0.00	0.21	0.72	2	5	1	98	0.00	0.0	1.166	0.003	0	0	0	1
PL.1324	PD.174	B	#2 ACSR	7.49Y	124.8	0.00	0.21	0.72	0	5	1	98	0.00	0.0	1.199	0.033	5	1	1	1
PL.1319	PL.98	B	#4 ACSR	7.49Y	124.8	0.00	0.19	3.93	3	28	8	96	0.00	0.0	0.997	0.004	0	0	0	6
PD.172	PL.1319	B	40QA	7.49Y	124.8	0.00	0.19	3.93	10	28	8	96	0.00	0.0	0.997	0.004	0	0	0	6
PL.1320	PD.172	B	#4 ACSR	7.49Y	124.8	0.00	0.19	3.93	3	28	8	96	0.00	0.0	1.004	0.007	6	2	2	6
PL.516	PL.1320	B	#4 ACSR	7.49Y	124.8	0.00	0.19	3.10	2	22	6	96	0.00	0.0	1.020	0.016	16	4	3	4
PL.4	PL.516	B	#4 ACSR	7.49Y	124.8	0.00	0.19	0.87	1	6	2	95	0.00	0.0	1.107	0.087	6	2	1	1
PL.1317	PL.1314	B	6 A (CWC)	7.49Y	124.8	0.00	0.17	1.66	1	12	3	97	0.00	0.0	0.906	0.004	0	0	0	4
PD.171	PL.1317	B	65QA	7.49Y	124.8	0.00	0.17	1.66	0	12	3	97	0.00	0.0	0.906	0.004	0	0	0	4
PL.1318	PD.171	B	6 A (CWC)	7.49Y	124.8	0.00	0.17	1.66	1	12	3	97	0.00	0.0	0.926	0.020	12	3	4	4
PL.1300	PL.1297	B	#2 ACSR	7.49Y	124.9	0.00	0.09	1.45	1	10	3	96	0.00	0.0	0.361	0.003	0	0	0	4
PD.163	PL.1300	B	65T	7.49Y	124.9	0.00	0.09	1.45	0	10	3	96	0.00	0.0	0.361	0.003	0	0	0	4
PL.1301	PD.163	B	#2 ACSR	7.49Y	124.9	0.00	0.09	1.45	1	10	3	96	0.00	0.0	0.364	0.003	0	0	0	4
PL.299	PL.1301	B	#4 ACSR	7.49Y	124.9	0.00	0.09	0.99	1	7	2	96	0.00	0.0	0.381	0.018	0	0	0	3
PL.1	PL.299	B	#4 ACSR	7.49Y	124.9	0.00	0.09	0.99	1	7	2	96	0.00	0.0	0.395	0.014	7	2	3	3
PL.93	PL.1301	B	#2 ACSR	7.49Y	124.9	0.00	0.09	0.47	0	3	1	95	0.00	0.0	0.379	0.015	3	1	1	1
PL.1287	PL.1389	B	6 A (CWC)	7.50Y	125.0	0.00	0.04	0.95	1	7	2	96	0.00	0.0	0.109	0.003	0	0	0	3
PD.161	PL.1287	B	65QA	7.50Y	125.0	0.00	0.04	0.95	0	7	2	96	0.00	0.0	0.109	0.003	0	0	0	3
PL.1288	PD.161	B	#2 ACSR	7.50Y	125.0	0.00	0.04	0.95	1	7	2	96	0.00	0.0	0.131	0.023	7	2	3	3
PL.1852	Goose Rock	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	276.39	53	5867	2062	94	0.36	0.0	0.006	0.006	0	0	0	1228
PL.7155	PL.1852	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	276.39	53	5867	2061	94	0.08	0.0	0.007	0.001	0	0	0	1228
---------- Feeder No. 1 (Garrad F1) Beginning with Device PD.1526 ----------																				
PD.1526	PL.7155	ABC	480VWE	7.50Y	125.0	0.00	0.02	276.39	0	5866	2061	94	0.00	0.0	0.007	0.001	0	0	0	1228
PL.7156	PD.1526	ABC	336 MCM AC	7.49Y	124.9	0.09	0.11	276.39	53	5866	2061	94	2.74	0.0	0.049	0.043	11	3	1	1228

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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1390	PL.7156	ABC	336 MCM AC	7.47Y	124.6	0.33	0.44	275.90	53	5853	2052	94	9.54	0.2	0.198	0.149	0	0	0	1227
PL.2476	PL.1390	A	#4 ACSR	7.47Y	124.6	0.00	0.44	1.08	1	8	2	97	0.00	0.0	0.203	0.005	0	0	0	4
PD.309	PL.2476	A	40QA	7.47Y	124.6	0.00	0.44	1.08	3	8	2	97	0.00	0.0	0.203	0.005	0	0	0	4
PL.2477	PD.309	A	#4 ACSR	7.47Y	124.6	0.00	0.44	1.08	1	8	2	97	0.00	0.0	0.289	0.086	6	2	2	4
PL.1392	PL.2477	A	#1/0 ACSR	7.47Y	124.6	0.00	0.44	0.20	0	1	0	100	0.00	0.0	0.331	0.042	1	0	2	2
PL.1393	PL.1390	ABC	336 MCM AC	7.45Y	124.1	0.42	0.86	275.54	53	5836	2027	94	12.23	0.2	0.389	0.191	0	0	0	1223
PL.1395	PL.1393	ABC	336 MCM AC	7.43Y	123.9	0.27	1.13	259.13	50	5469	1901	94	7.36	0.1	0.520	0.130	0	0	0	1131
PL.5262	PL.1395	C	#1/0 ACSR	7.43Y	123.9	0.00	1.13	1.17	1	8	2	97	0.00	0.0	0.523	0.004	0	0	0	2
PD.894	PL.5262	C	40QA	7.43Y	123.9	0.00	1.13	1.17	3	8	2	97	0.00	0.0	0.523	0.004	0	0	0	2
PL.5263	PD.894	C	#1/0 ACSR	7.43Y	123.9	0.00	1.13	1.17	1	8	2	97	0.00	0.0	0.540	0.017	8	2	2	2
PL.5264	PL.1395	B	#1/0 ACSR	7.43Y	123.9	0.00	1.13	9.68	4	69	19	96	0.00	0.0	0.523	0.003	0	0	0	14
PD.895	PL.5264	B	70L	7.43Y	123.9	0.00	1.13	9.68	14	69	19	96	0.00	0.0	0.523	0.003	0	0	0	14
PL.5265	PD.895	B	#1/0 ACSR	7.43Y	123.8	0.03	1.16	9.68	4	69	19	96	0.01	0.0	0.667	0.144	6	2	1	14
PL.1584	PL.5265	B	6 A (CWC)	7.43Y	123.8	0.01	1.18	8.82	6	63	17	97	0.01	0.0	0.702	0.035	0	0	0	13
PL.1401	PL.1584	B	#1/0 ACSR	7.43Y	123.8	0.00	1.18	1.86	1	13	4	96	0.00	0.0	0.749	0.047	2	1	1	2
PL.1402	PL.1401	B	#1/0 ACSR	7.43Y	123.8	0.00	1.18	1.56	1	11	3	96	0.00	0.0	0.794	0.044	11	3	1	1
PL.1585	PL.1584	B	6 A (CWC)	7.43Y	123.8	0.02	1.20	6.97	5	50	14	96	0.01	0.0	0.779	0.077	2	1	2	11
PL.1403	PL.1585	B	6 A (CWC)	7.42Y	123.7	0.06	1.26	6.69	5	48	13	97	0.02	0.0	0.968	0.189	0	0	0	9
PL.1406	PL.1403	B	#2 ACSR	7.42Y	123.7	0.00	1.26	1.46	1	10	3	96	0.00	0.0	1.094	0.126	10	3	1	1
PL.1405	PL.1403	B	8 A (CWC)	7.42Y	123.7	0.09	1.34	5.23	5	37	10	97	0.03	0.1	1.213	0.245	0	0	0	8
PL.1410	PL.1405	B	8 A (CWC)	7.42Y	123.6	0.03	1.37	5.23	5	37	10	97	0.01	0.0	1.290	0.077	0	0	0	8
PL.1411	PL.1410	B	8 A (CWC)	7.42Y	123.6	0.05	1.42	5.23	5	37	10	97	0.01	0.0	1.460	0.170	16	5	2	8
PL.1413	PL.1411	B	#2 ACSR	7.42Y	123.6	0.00	1.42	0.75	0	5	1	98	0.00	0.0	1.488	0.028	5	1	1	2
PL.1418	PL.1413	B	#2 ACSR	7.42Y	123.6	0.00	1.42	0.07	0	0	0	100	0.00	0.0	1.647	0.159	0	0	1	1
PL.1414	PL.1411	B	#4 ACSR	7.41Y	123.6	0.00	1.42	2.18	2	16	4	97	0.00	0.0	1.501	0.041	0	0	0	4
PL.1416	PL.1414	B	#4 ACSR	7.41Y	123.6	0.00	1.42	1.02	1	7	2	96	0.00	0.0	1.662	0.161	7	2	2	2
PL.1415	PL.1414	B	#4 ACSR	7.41Y	123.6	0.00	1.42	1.16	1	8	2	97	0.00	0.0	1.523	0.022	8	2	2	2
PL.1399	PL.1395	ABC	336 MCM AC	7.43Y	123.8	0.07	1.20	255.53	49	5384	1862	95	1.78	0.0	0.552	0.032	0	0	0	1115
PL.1459	PL.1399	ABC	336 MCM AC	7.42Y	123.6	0.16	1.36	254.57	49	5362	1852	95	4.40	0.1	0.633	0.081	0	0	0	1112
PL.2412	PL.1459	C	#1/0 ACSR	7.42Y	123.6	0.00	1.36	0.77	0	5	2	93	0.00	0.0	0.637	0.005	0	0	0	1
PD.276	PL.2412	C	40QA	7.42Y	123.6	0.00	1.36	0.77	2	5	2	93	0.00	0.0	0.637	0.005	0	0	0	1

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2413	PD.276	C	#1/0 ACSR	7.42Y	123.6	0.00	1.36	0.77	0	5	2	93	0.00	0.0	0.643	0.005	0	0	0	1
PL.1464	PL.2413	C	#1/0 ACSR	7.42Y	123.6	0.00	1.36	0.77	0	5	2	93	0.00	0.0	0.684	0.041	0	0	0	1
PL.1472	PL.1464	C	#2 ACSR	7.42Y	123.6	0.00	1.36	0.77	0	5	2	93	0.00	0.0	0.756	0.072	0	0	0	1
PL.1473	PL.1472	C	#2 ACSR	7.42Y	123.6	0.00	1.36	0.77	0	5	2	93	0.00	0.0	0.796	0.040	5	2	1	1
PL.1465	PL.1459	ABC	336 MCM AC	7.42Y	123.6	0.05	1.41	254.31	49	5352	1841	95	1.37	0.0	0.658	0.025	0	0	0	1111
PL.1466	PL.1465	ABC	336 MCM AC	7.41Y	123.5	0.06	1.47	254.25	49	5349	1837	95	1.69	0.0	0.689	0.031	0	0	0	1110
PL.1496	PL.1466	ABC	336 MCM AC	7.39Y	123.2	0.31	1.79	249.49	48	5246	1805	95	8.30	0.2	0.847	0.158	0	0	0	1082
PL.1580	PL.1496	ABC	336 MCM AC	7.37Y	122.8	0.37	2.15	249.49	48	5237	1785	95	9.66	0.2	1.031	0.184	0	0	0	1082
PL.1581	PL.1580	ABC	336 MCM AC	7.36Y	122.7	0.19	2.34	248.85	48	5214	1759	95	4.96	0.1	1.126	0.095	0	0	0	1080
PL.2480	PL.1581	C	#4 ACSR	7.36Y	122.7	0.00	2.34	1.30	1	9	3	95	0.00	0.0	1.131	0.005	0	0	0	3
PD.311	PL.2480	C	50QA	7.36Y	122.7	0.00	2.34	1.30	3	9	3	95	0.00	0.0	1.131	0.005	0	0	0	3
PL.2481	PD.311	C	#4 ACSR	7.36Y	122.7	0.00	2.34	1.30	1	9	3	95	0.00	0.0	1.143	0.012	0	0	0	3
PL.1499	PL.2481	C	6 A (CWC)	7.36Y	122.7	0.00	2.34	1.30	1	9	3	95	0.00	0.0	1.179	0.037	6	2	1	3
PL.2138	PL.1499	C	#4 ACSR	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	1.249	0.069	0	0	0	0
PL.2139	PL.2138	C	#4 ACSR	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	1.329	0.080	0	0	0	0
PL.1505	PL.1499	C	6 A (CWC)	7.36Y	122.7	0.00	2.34	0.40	0	3	1	95	0.00	0.0	1.255	0.075	3	1	2	2
PL.1506	PL.1505	C	6 A (CWC)	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	1.294	0.040	0	0	0	0
PL.1498	PL.1581	ABC	336 MCM AC	7.35Y	122.6	0.08	2.42	248.42	48	5200	1745	95	2.12	0.0	1.167	0.041	0	0	0	1077
PL.1501	PL.1498	ABC	336 MCM AC	7.34Y	122.3	0.26	2.69	248.42	48	5198	1740	95	7.01	0.1	1.302	0.135	0	0	0	1077
PL.2140	PL.1501	ABC	336 MCM AC	7.33Y	122.1	0.21	2.90	248.42	48	5191	1724	95	5.69	0.1	1.412	0.109	0	0	0	1077
PL.2141	PL.2140	ABC	336 MCM AC	7.32Y	122.0	0.05	2.95	248.42	48	5185	1710	95	1.42	0.0	1.439	0.027	5	1	1	1077
PL.1507	PL.2141	ABC	336 MCM AC	7.32Y	121.9	0.11	3.06	247.13	48	5156	1699	95	2.83	0.1	1.494	0.055	0	0	0	1069
PL.1509	PL.1507	ABC	336 MCM AC	7.31Y	121.9	0.07	3.13	247.13	48	5153	1693	95	1.87	0.0	1.530	0.036	0	0	0	1069
PL.1510	PL.1509	ABC	336 MCM AC	7.31Y	121.8	0.06	3.19	247.13	48	5152	1688	95	1.66	0.0	1.563	0.032	0	0	0	1069
PL.1511	PL.1510	ABC	336 MCM AC	7.30Y	121.7	0.07	3.26	239.93	46	5002	1630	95	1.78	0.0	1.599	0.037	0	0	0	1053
PL.1522	PL.1511	ABC	336 MCM AC	7.29Y	121.5	0.19	3.45	239.08	46	4982	1621	95	4.92	0.1	1.702	0.102	9	2	1	1051
PL.1528	PL.1522	ABC	336 MCM AC	7.29Y	121.5	0.07	3.53	237.68	46	4947	1601	95	1.91	0.0	1.742	0.040	0	0	0	1045
PL.2292	PL.1528	A	#1/0 ACSR	7.29Y	121.5	0.00	3.53	1.38	1	10	3	96	0.00	0.0	1.746	0.005	0	0	0	3
PD.219	PL.2292	A	40QA	7.29Y	121.5	0.00	3.53	1.38	3	10	3	96	0.00	0.0	1.746	0.005	0	0	0	3
PL.2293	PD.219	A	#1/0 ACSR	7.29Y	121.5	0.00	3.53	1.38	1	10	3	96	0.00	0.0	1.757	0.010	10	3	3	3
PL.1529	PL.1528	ABC	336 MCM AC	7.28Y	121.4	0.08	3.60	237.22	46	4936	1594	95	1.94	0.0	1.783	0.041	0	0	0	1042

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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1539	PL.1529	ABC	336 MCM AC	7.27Y	121.2	0.18	3.79	236.73	46	4924	1587	95	4.65	0.1	1.881	0.098	0	0	0	1040
PL.1542	PL.1539	ABC	#1/0 ACSR	7.27Y	121.2	0.00	3.79	1.50	1	31	9	96	0.00	0.0	1.911	0.030	0	0	0	4
PL.1543	PL.1542	ABC	#1/0 ACSR	7.27Y	121.2	0.00	3.79	0.99	0	21	6	96	0.00	0.0	1.929	0.018	21	6	1	1
PL.2328	PL.1542	C	#1/0 ACSR	7.27Y	121.2	0.00	3.79	1.50	1	11	3	96	0.00	0.0	1.915	0.005	0	0	0	3
PD.236	PL.2328	C	40QA	7.27Y	121.2	0.00	3.79	1.50	4	11	3	96	0.00	0.0	1.915	0.005	0	0	0	3
PL.2329	PD.236	C	#1/0 ACSR	7.27Y	121.2	0.00	3.79	1.50	1	11	3	96	0.00	0.0	1.953	0.037	11	3	3	3
PL.1541	PL.1539	ABC	336 MCM AC	7.27Y	121.1	0.07	3.85	235.24	45	4887	1567	95	1.68	0.0	1.917	0.036	0	0	0	1036
PL.1544	PL.1541	ABC	336 MCM AC	7.26Y	120.9	0.22	4.07	234.78	45	4876	1561	95	5.52	0.1	2.036	0.119	0	0	0	1035
PL.1547	PL.1544	ABC	336 MCM AC	7.24Y	120.7	0.18	4.25	234.78	45	4870	1548	95	4.62	0.1	2.136	0.100	0	0	0	1035
PL.1549	PL.1547	ABC	336 MCM AC	7.24Y	120.7	0.09	4.34	234.18	45	4853	1534	95	2.22	0.0	2.184	0.048	0	0	0	1033
PL.2334	PL.1549	C	#1/0 ACSR	7.24Y	120.7	0.00	4.34	0.72	0	5	1	98	0.00	0.0	2.189	0.005	0	0	0	1
PD.239	PL.2334	C	40QA	7.24Y	120.7	0.00	4.34	0.72	2	5	1	98	0.00	0.0	2.189	0.005	0	0	0	1
PL.2335	PD.239	C	#1/0 ACSR	7.24Y	120.7	0.00	4.34	0.72	0	5	1	98	0.00	0.0	2.226	0.037	5	1	1	1
PL.1550	PL.1549	ABC	336 MCM AC	7.23Y	120.5	0.17	4.51	233.94	45	4846	1527	95	4.39	0.1	2.279	0.095	0	0	0	1032
PL.1552	PL.1550	ABC	336 MCM AC	7.21Y	120.2	0.25	4.76	230.02	44	4760	1494	95	6.27	0.1	2.420	0.141	0	0	0	1021
PL.1564	PL.1552	ABC	336 MCM AC	7.20Y	120.0	0.22	4.98	230.02	44	4754	1479	95	5.62	0.1	2.546	0.126	0	0	0	1021
PL.1568	PL.1564	ABC	336 MCM AC	7.19Y	119.8	0.18	5.16	229.49	44	4737	1463	96	4.46	0.1	2.647	0.101	0	0	0	1018
PL.2322	PL.1568	A	8 A (CWC)	7.19Y	119.8	0.00	5.16	0.65	1	4	1	97	0.00	0.0	2.651	0.004	0	0	0	5
PD.233	PL.2322	A	40QA	7.19Y	119.8	0.00	5.16	0.65	2	4	1	97	0.00	0.0	2.651	0.004	0	0	0	5
PL.2323	PD.233	A	8 A (CWC)	7.19Y	119.8	0.00	5.17	0.65	1	4	1	97	0.00	0.0	2.758	0.107	0	0	0	5
PL.1574	PL.2323	A	#4 ACSR	7.19Y	119.8	0.00	5.17	0.65	0	4	1	97	0.00	0.0	2.854	0.096	0	0	0	5
PL.1578	PL.1574	A	#2 ACSR	7.19Y	119.8	0.00	5.17	0.65	0	4	1	97	0.00	0.0	2.891	0.037	4	1	5	5
PL.2320	PL.1568	ABC	336 MCM AC	7.19Y	119.8	0.01	5.17	229.27	44	4728	1452	96	0.20	0.0	2.651	0.004	0	0	0	1013
PL.2321	PL.2320	ABC	336 MCM AC	7.18Y	119.6	0.24	5.40	229.27	44	4728	1451	96	5.93	0.1	2.785	0.134	0	0	0	1013
PL.1579	PL.2321	ABC	336 MCM AC	7.16Y	119.3	0.29	5.70	229.27	44	4722	1437	96	7.38	0.2	2.952	0.167	0	0	0	1013
PL.2490	PL.1579	C	#4 ACSR	7.16Y	119.3	0.00	5.70	1.36	1	9	3	95	0.00	0.0	2.956	0.005	0	0	0	1
PD.316	PL.2490	C	15T	7.16Y	119.3	0.00	5.70	1.36	0	9	3	95	0.00	0.0	2.956	0.005	0	0	0	1
PL.2491	PD.316	C	#4 ACSR	7.16Y	119.3	0.00	5.70	1.36	1	9	3	95	0.00	0.0	2.980	0.024	9	3	1	1
PL.1593	PL.1579	ABC	336 MCM AC	7.14Y	119.0	0.28	5.98	228.28	44	4694	1414	96	7.12	0.2	3.114	0.162	0	0	0	1011
PL.2338	PL.1593	C	#2 ACSR	7.14Y	119.0	0.00	5.98	0.69	0	5	1	98	0.00	0.0	3.118	0.005	0	0	0	1
PD.241	PL.2338	C	40QA	7.14Y	119.0	0.00	5.98	0.69	2	5	1	98	0.00	0.0	3.118	0.005	0	0	0	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2339	PD.241	C	#2 ACSR	7.14Y	119.0	0.00	5.98	0.69	0	5	1	98	0.00	0.0	3.130	0.012	5	1	1	1
PL.2492	PL.1593	A	#2 ACSR	7.14Y	119.0	0.00	5.98	5.32	3	37	10	97	0.00	0.0	3.118	0.004	0	0	0	5
PD.317	PL.2492	A	40QA	7.14Y	119.0	0.00	5.98	5.32	13	37	10	97	0.00	0.0	3.118	0.004	0	0	0	5
PL.2493	PD.317	A	#2 ACSR	7.14Y	119.0	0.01	5.98	5.32	3	37	10	97	0.00	0.0	3.152	0.034	9	2	1	5
PL.1599	PL.2493	A	#2 ACSR	7.14Y	119.0	0.00	5.99	2.25	1	15	4	97	0.00	0.0	3.197	0.044	15	4	2	2
PL.1598	PL.2493	A	#2 ACSR	7.14Y	119.0	0.00	5.99	1.77	1	12	3	97	0.00	0.0	3.176	0.024	12	3	2	2
PL.2131	PL.1593	ABC	336 MCM AC	7.14Y	118.9	0.10	6.08	226.28	44	4645	1386	96	2.54	0.1	3.173	0.059	0	0	0	1005
PL.2132	PL.2131	ABC	336 MCM AC	7.13Y	118.8	0.13	6.21	224.76	43	4611	1372	96	3.22	0.1	3.248	0.076	1	0	1	998
PL.1603	PL.2132	ABC	336 MCM AC	7.13Y	118.8	0.03	6.24	150.62	29	3085	926	96	0.57	0.0	3.278	0.030	2	1	3	622
PL.1775	PL.1603	ABC	336 MCM AC	7.12Y	118.6	0.11	6.35	150.50	29	3082	924	96	1.79	0.1	3.372	0.094	14	4	1	619
PL.2182	PL.1775	ABC	336 MCM AC	7.12Y	118.6	0.05	6.40	149.83	29	3066	916	96	0.81	0.0	3.415	0.043	0	0	0	618
PL.2266	PL.2182	ABC	336 MCM AC	7.11Y	118.6	0.02	6.42	146.14	28	2989	893	96	0.33	0.0	3.433	0.018	0	0	0	602
PL.2562	PL.2266	ABC	336 MCM AC	7.11Y	118.6	0.00	6.42	146.14	28	2989	892	96	0.05	0.0	3.436	0.003	0	0	0	602
PD.354	PL.2562	ABC	4804C	7.11Y	118.6	0.00	6.42	146.14	0	2989	892	96	0.00	0.0	3.436	0.003	0	0	0	602
PL.2563	PD.354	ABC	336 MCM AC	7.11Y	118.5	0.03	6.45	146.14	28	2989	892	96	0.48	0.0	3.463	0.027	0	0	0	602
PL.2009	PL.2563	ABC	336 MCM AC	7.11Y	118.5	0.00	6.45	146.14	28	2988	891	96	0.02	0.0	3.464	0.001	0	0	0	602
RG.2	PL.2009	ABC	167Kkva	7.49Y	124.8	-6.24	0.22	146.14	67	2988	891	96	percent Boost= 5.00 Tap= 8.0							602
PL.2008	RG.2	ABC	336 MCM AC	7.49Y	124.8	0.00	0.22	138.83	27	2988	891	96	0.02	0.0	3.466	0.001	0	0	0	602
PL.2179	PL.2008	ABC	336 MCM AC	7.49Y	124.8	0.03	0.24	138.83	27	2988	891	96	0.42	0.0	3.492	0.026	0	0	1	602
PL.2180	PL.2179	ABC	336 MCM AC	7.48Y	124.7	0.06	0.31	138.82	27	2988	890	96	0.95	0.0	3.550	0.059	0	0	0	601
PL.2318	PL.2180	C	#1/0 ACSR	7.48Y	124.7	0.00	0.31	0.44	0	3	1	95	0.00	0.0	3.555	0.005	0	0	0	1
PD.232	PL.2318	C	40QA	7.48Y	124.7	0.00	0.31	0.44	1	3	1	95	0.00	0.0	3.555	0.005	0	0	0	1
PL.2319	PD.232	C	#1/0 ACSR	7.48Y	124.7	0.00	0.31	0.44	0	3	1	95	0.00	0.0	3.576	0.021	3	1	1	1
PL.2130	PL.2180	ABC	336 MCM AC	7.48Y	124.6	0.06	0.37	138.67	27	2983	887	96	0.94	0.0	3.608	0.058	0	0	0	600
PL.2128	PL.2130	ABC	336 MCM AC	7.48Y	124.6	0.03	0.40	138.67	27	2983	884	96	0.45	0.0	3.636	0.028	0	0	0	600
PL.2129	PL.2128	ABC	336 MCM AC	7.47Y	124.6	0.02	0.42	109.97	21	2362	710	96	0.26	0.0	3.662	0.026	0	0	0	476
PL.2316	PL.2129	C	#4 ACSR	7.47Y	124.6	0.00	0.42	5.07	4	37	10	97	0.00	0.0	3.667	0.005	0	0	0	8
PD.231	PL.2316	C	20T	7.47Y	124.6	0.00	0.42	5.07	0	37	10	97	0.00	0.0	3.667	0.005	0	0	0	8
PL.2317	PD.231	C	#4 ACSR	7.47Y	124.6	0.01	0.43	5.07	4	37	10	97	0.00	0.0	3.734	0.067	11	3	1	8
PL.1984	PL.2317	C	6 A (CWC)	7.47Y	124.6	0.01	0.44	3.53	3	25	7	96	0.00	0.0	3.780	0.046	3	1	2	7
PL.1985	PL.1984	C	6 A (CWC)	7.47Y	124.6	0.00	0.44	1.55	1	11	3	96	0.00	0.0	3.841	0.061	5	1	1	3

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1987	PL.1985	C	6 A (CWC)	7.47Y	124.6	0.00	0.44	0.79	1	6	2	95	0.00	0.0	3.878	0.037	6	2	2	2
PL.1986	PL.1984	C	#4 ACSR	7.47Y	124.6	0.00	0.44	1.58	1	11	3	96	0.00	0.0	3.819	0.039	11	3	2	2
PL.2177	PL.2129	ABC	336 MCM AC	7.47Y	124.6	0.03	0.45	108.28	21	2325	700	96	0.32	0.0	3.695	0.033	1	0	1	468
PL.2178	PL.2177	ABC	336 MCM AC	7.47Y	124.5	0.02	0.46	108.23	21	2324	698	96	0.21	0.0	3.716	0.022	0	0	0	467
PL.2125	PL.2178	ABC	336 MCM AC	7.47Y	124.5	0.02	0.49	107.99	21	2319	696	96	0.28	0.0	3.745	0.029	0	0	0	466
PL.2173	PL.2125	ABC	336 MCM AC	7.47Y	124.4	0.07	0.56	107.35	21	2305	691	96	0.84	0.0	3.832	0.087	3	1	1	464
PL.2174	PL.2173	ABC	336 MCM AC	7.47Y	124.4	0.02	0.58	107.23	21	2301	688	96	0.25	0.0	3.858	0.026	0	0	0	463
PL.2171	PL.2174	ABC	336 MCM AC	7.46Y	124.4	0.07	0.65	106.21	20	2279	682	96	0.80	0.0	3.942	0.084	0	0	0	460
PL.2172	PL.2171	ABC	336 MCM AC	7.46Y	124.3	0.02	0.67	106.21	20	2278	680	96	0.27	0.0	3.971	0.029	8	2	5	460
PL.2170	PL.2172	ABC	336 MCM AC	7.45Y	124.2	0.09	0.76	105.83	20	2270	677	96	1.06	0.0	4.083	0.112	0	0	0	455
PL.2312	PL.2170	C	#2 ACSR	7.45Y	124.2	0.00	0.76	3.42	2	25	7	96	0.00	0.0	4.088	0.005	0	0	0	3
PD.229	PL.2312	C	20T	7.45Y	124.2	0.00	0.76	3.42	0	25	7	96	0.00	0.0	4.088	0.005	0	0	0	3
PL.2313	PD.229	C	#2 ACSR	7.45Y	124.2	0.00	0.76	3.42	2	25	7	96	0.00	0.0	4.136	0.048	25	7	3	3
PL.2122	PL.2170	ABC	336 MCM AC	7.45Y	124.2	0.04	0.80	104.69	20	2244	668	96	0.49	0.0	4.136	0.053	0	0	0	452
PL.2308	PL.2122	C	#2 ACSR	7.45Y	124.2	0.00	0.80	1.52	1	11	3	96	0.00	0.0	4.141	0.005	0	0	0	3
PD.227	PL.2308	C	40QA	7.45Y	124.2	0.00	0.80	1.52	4	11	3	96	0.00	0.0	4.141	0.005	0	0	0	3
PL.2309	PD.227	C	#2 ACSR	7.45Y	124.2	0.00	0.80	1.52	1	11	3	96	0.00	0.0	4.169	0.028	11	3	3	3
PL.1793	PL.2309	C	#2 ACSR	7.45Y	124.2	0.00	0.80	0.00	0	0	0	100	0.00	0.0	4.197	0.028	0	0	0	0
PL.2120	PL.2122	ABC	336 MCM AC	7.45Y	124.2	0.02	0.83	104.19	20	2233	664	96	0.26	0.0	4.165	0.029	0	0	0	449
PL.2175	PL.2120	ABC	336 MCM AC	7.44Y	124.0	0.13	0.96	103.84	20	2225	661	96	1.54	0.1	4.335	0.170	3	1	2	448
PL.2176	PL.2175	ABC	336 MCM AC	7.44Y	124.0	0.04	1.00	103.71	20	2220	657	96	0.49	0.0	4.389	0.054	0	0	0	446
PL.2546	PL.2176	ABC	1/0 AL URD	7.44Y	124.0	0.00	1.00	7.23	4	147	65	91	0.00	0.0	4.394	0.005	0	0	0	4
PD.344	PL.2546	ABC	40QA	7.44Y	124.0	0.00	1.00	7.23	18	147	65	91	0.00	0.0	4.394	0.005	0	0	0	4
PL.2547	PD.344	ABC	1/0 AL URD	7.44Y	124.0	0.00	1.01	7.23	4	147	65	91	0.00	0.0	4.412	0.018	0	0	0	4
PL.1795	PL.2547	ABC	1/0 AL URD	7.44Y	124.0	0.01	1.01	6.97	4	142	64	91	0.01	0.0	4.453	0.042	0	0	0	3
PL.1804	PL.1795	ABC	1/0 AL URD	7.44Y	124.0	0.01	1.02	6.97	4	142	64	91	0.00	0.0	4.518	0.065	118	57	1	3
PL.1796	PL.1804	ABC	1/0 AL URD	7.44Y	124.0	0.00	1.02	1.12	1	24	7	96	0.00	0.0	4.558	0.039	0	0	0	2
PL.1797	PL.1796	A	1/0 AL URD	7.44Y	124.0	0.00	1.02	3.34	2	24	7	96	0.00	0.0	4.560	0.002	24	7	1	1
PL.1798	PL.1796	ABC	1/0 AL URD	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	4.588	0.030	0	0	0	1
PL.1799	PL.1798	A	1/0 AL URD	7.44Y	124.0	0.00	1.02	0.01	0	0	0	100	0.00	0.0	4.590	0.002	0	0	1	1
PL.1794	PL.2547	A	1/0 AL URD	7.44Y	124.0	0.00	1.01	0.78	0	6	2	95	0.00	0.0	4.414	0.002	6	2	1	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2112	PL.2176	ABC	336 MCM AC	7.44Y	124.0	0.04	1.04	96.55	19	2072	590	96	0.41	0.0	4.441	0.052	3	1	2	442
PL.1802	PL.2112	A	1/0 AL URD	7.44Y	124.0	0.00	1.04	4.07	2	29	8	96	0.00	0.0	4.445	0.005	0	0	0	7
PD.214	PL.1802	A	40QA	7.44Y	124.0	0.00	1.04	4.07	10	29	8	96	0.00	0.0	4.445	0.005	0	0	0	7
PL.2007	PD.214	A	1/0 AL URD	7.44Y	124.0	0.00	1.04	4.07	2	29	8	96	0.00	0.0	4.457	0.012	0	0	0	7
PL.1801	PL.2007	A	1/0 AL URD	7.44Y	124.0	0.00	1.04	4.07	2	29	8	96	0.00	0.0	4.487	0.030	29	8	4	7
PL.1800	PL.1801	A	1/0 AL URD	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	4.513	0.026	0	0	3	3
PL.2113	PL.2112	ABC	336 MCM AC	7.43Y	123.9	0.08	1.12	95.07	18	2040	580	96	0.86	0.0	4.554	0.114	0	0	0	433
PL.2109	PL.2113	ABC	336 MCM AC	7.43Y	123.8	0.06	1.18	95.07	18	2039	578	96	0.68	0.0	4.644	0.090	0	0	0	433
PL.2278	PL.2109	B	#4 ACSR	7.43Y	123.8	0.00	1.18	1.64	1	12	3	97	0.00	0.0	4.649	0.005	0	0	0	1
PD.211	PL.2278	B	40QA	7.43Y	123.8	0.00	1.18	1.64	4	12	3	97	0.00	0.0	4.649	0.005	0	0	0	1
PL.2279	PD.211	B	#4 ACSR	7.43Y	123.8	0.00	1.19	1.64	1	12	3	97	0.00	0.0	4.675	0.027	12	3	1	1
PL.2110	PL.2109	ABC	336 MCM AC	7.42Y	123.7	0.08	1.26	94.52	18	2027	574	96	0.85	0.0	4.756	0.112	0	0	0	432
PL.2099	PL.2110	ABC	336 MCM AC	7.42Y	123.7	0.04	1.30	91.64	18	1964	554	96	0.41	0.0	4.815	0.058	2	1	1	417
PL.2282	PL.2099	A	#4 ACSR	7.42Y	123.7	0.00	1.30	3.13	2	22	6	96	0.00	0.0	4.819	0.005	0	0	0	11
PD.213	PL.2282	A	40QA	7.42Y	123.7	0.00	1.30	3.13	8	22	6	96	0.00	0.0	4.819	0.005	0	0	0	11
PL.2283	PD.213	A	#4 ACSR	7.42Y	123.7	0.00	1.31	3.13	2	22	6	96	0.00	0.0	4.846	0.027	22	6	11	11
PL.1588	PL.2099	ABC	336 MCM AC	7.42Y	123.7	0.02	1.32	90.51	17	1940	547	96	0.15	0.0	4.837	0.022	5	1	2	405
PL.1589	PL.1588	ABC	336 MCM AC	7.42Y	123.7	0.01	1.33	90.29	17	1935	545	96	0.14	0.0	4.857	0.020	0	0	0	403
PL.2095	PL.1589	ABC	336 MCM AC	7.42Y	123.6	0.03	1.37	90.29	17	1935	545	96	0.35	0.0	4.908	0.051	0	0	0	403
PL.2468	PL.2095	C	#4 ACSR	7.42Y	123.6	0.00	1.37	0.35	0	2	1	89	0.00	0.0	4.912	0.005	0	0	0	4
PD.305	PL.2468	C	40QA	7.42Y	123.6	0.00	1.37	0.35	1	2	1	89	0.00	0.0	4.912	0.005	0	0	0	4
PL.2469	PD.305	C	#4 ACSR	7.42Y	123.6	0.00	1.37	0.35	0	2	1	89	0.00	0.0	4.920	0.008	2	1	4	4
PL.2096	PL.2095	ABC	336 MCM AC	7.42Y	123.6	0.02	1.39	90.17	17	1932	543	96	0.25	0.0	4.945	0.037	0	0	0	399
PL.2360	PL.2096	C	#4 ACSR	7.42Y	123.6	0.00	1.39	1.50	1	11	3	96	0.00	0.0	4.949	0.005	0	0	0	1
PD.253	PL.2360	C	40QA	7.42Y	123.6	0.00	1.39	1.50	4	11	3	96	0.00	0.0	4.949	0.005	0	0	0	1
PL.2361	PD.253	C	#4 ACSR	7.42Y	123.6	0.00	1.39	1.50	1	11	3	96	0.00	0.0	4.978	0.029	0	0	0	1
PL.1849	PL.2361	C	#4 ACSR	7.42Y	123.6	0.00	1.39	1.50	1	11	3	96	0.00	0.0	5.008	0.030	11	3	1	1
PL.2187	PL.2096	ABC	336 MCM AC	7.42Y	123.6	0.02	1.41	89.67	17	1921	540	96	0.20	0.0	4.974	0.029	9	2	1	398
PL.2188	PL.2187	ABC	336 MCM AC	7.41Y	123.6	0.03	1.44	89.27	17	1912	537	96	0.34	0.0	5.024	0.050	0	0	0	397
PL.2094	PL.2188	ABC	336 MCM AC	7.41Y	123.5	0.02	1.46	41.53	8	890	248	96	0.08	0.0	5.081	0.057	0	0	0	182
PL.2362	PL.2094	C	#2 ACSR	7.41Y	123.5	0.00	1.46	1.18	1	8	2	97	0.00	0.0	5.086	0.005	0	0	0	1

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.254	PL.2362	C	40QA	7.41Y	123.5	0.00	1.46	1.18	3	8	2	97	0.00	0.0	5.086	0.005	0	0	0	1
PL.2363	PD.254	C	#2 ACSR	7.41Y	123.5	0.00	1.46	1.18	1	8	2	97	0.00	0.0	5.096	0.010	8	2	1	1
PL.2189	PL.2094	ABC	336 MCM AC	7.41Y	123.5	0.01	1.48	41.14	8	881	245	96	0.07	0.0	5.129	0.047	0	0	0	181
PL.2190	PL.2189	ABC	336 MCM AC	7.41Y	123.5	0.01	1.49	41.14	8	881	245	96	0.05	0.0	5.162	0.034	0	0	0	181
PL.2364	PL.2190	C	#4 ACSR	7.41Y	123.5	0.00	1.49	3.53	3	25	7	96	0.00	0.0	5.167	0.005	0	0	0	11
PD.255	PL.2364	C	40QA	7.41Y	123.5	0.00	1.49	3.53	9	25	7	96	0.00	0.0	5.167	0.005	0	0	0	11
PL.2365	PD.255	C	#4 ACSR	7.41Y	123.5	0.00	1.49	3.53	3	25	7	96	0.00	0.0	5.183	0.016	4	1	4	11
PL.1924	PL.2365	C	#4 ACSR	7.41Y	123.5	0.00	1.49	2.95	2	21	6	96	0.00	0.0	5.230	0.047	21	6	7	7
PL.2093	PL.2190	ABC	336 MCM AC	7.41Y	123.5	0.01	1.50	39.96	8	856	238	96	0.05	0.0	5.202	0.040	0	0	0	170
PL.2092	PL.2093	ABC	336 MCM AC	7.41Y	123.5	0.01	1.51	39.20	8	840	234	96	0.04	0.0	5.234	0.032	2	1	1	165
PL.1928	PL.2092	ABC	336 MCM AC	7.41Y	123.5	0.03	1.54	38.16	7	817	227	96	0.13	0.0	5.345	0.111	8	2	3	161
PL.2372	PL.1928	ABC	336 MCM AC	7.41Y	123.4	0.02	1.55	37.77	7	809	225	96	0.06	0.0	5.399	0.054	10	3	1	158
PL.2191	PL.2372	ABC	336 MCM AC	7.41Y	123.4	0.02	1.58	36.76	7	787	219	96	0.09	0.0	5.480	0.081	7	2	2	155
PL.2192	PL.2191	ABC	336 MCM AC	7.41Y	123.4	0.00	1.58	36.44	7	780	216	96	0.02	0.0	5.498	0.018	0	0	0	153
PL.2374	PL.2192	A	#4 ACSR	7.41Y	123.4	0.00	1.58	2.94	2	21	6	96	0.00	0.0	5.502	0.005	0	0	0	3
PD.259	PL.2374	A	40QA	7.41Y	123.4	0.00	1.58	2.94	7	21	6	96	0.00	0.0	5.502	0.005	0	0	0	3
PL.2375	PD.259	A	#4 ACSR	7.41Y	123.4	0.00	1.58	2.94	2	21	6	96	0.00	0.0	5.532	0.029	21	6	3	3
PL.2377	PL.2192	ABC	336 MCM AC	7.40Y	123.4	0.02	1.60	35.46	7	759	211	96	0.08	0.0	5.576	0.079	0	0	0	150
PL.2382	PL.2377	A	#4 ACSR	7.40Y	123.4	0.00	1.60	13.77	11	98	27	96	0.00	0.0	5.581	0.005	0	0	0	23
PD.262	PL.2382	A	40QA	7.40Y	123.4	0.00	1.60	13.77	34	98	27	96	0.00	0.0	5.581	0.005	0	0	0	23
PL.2383	PD.262	A	#4 ACSR	7.40Y	123.4	0.01	1.61	13.77	11	98	27	96	0.01	0.0	5.595	0.014	8	2	3	23
PL.1931	PL.2383	A	6 A (CWC)	7.40Y	123.4	0.00	1.61	1.51	1	11	3	96	0.00	0.0	5.616	0.020	2	1	1	3
PL.1932	PL.1931	A	#4 ACSR	7.40Y	123.4	0.00	1.61	1.20	1	9	2	98	0.00	0.0	5.644	0.029	8	2	1	2
PL.1933	PL.1932	A	#4 ACSR	7.40Y	123.4	0.00	1.61	0.11	0	1	0	100	0.00	0.0	5.664	0.020	1	0	1	1
PL.1930	PL.2383	A	#4 ACSR	7.40Y	123.4	0.01	1.63	11.14	9	79	22	96	0.01	0.0	5.627	0.032	14	4	1	17
PL.1938	PL.1930	A	#4 ACSR	7.40Y	123.4	0.01	1.64	9.14	7	65	18	96	0.01	0.0	5.659	0.032	0	0	0	16
PL.1939	PL.1938	A	#4 ACSR	7.40Y	123.3	0.02	1.66	9.05	7	65	18	96	0.01	0.0	5.713	0.054	0	0	0	15
PL.1941	PL.1939	A	#4 ACSR	7.40Y	123.3	0.02	1.68	9.05	7	65	18	96	0.01	0.0	5.766	0.053	14	4	3	15
PL.1942	PL.1941	A	6 A (CWC)	7.40Y	123.3	0.00	1.68	2.92	2	21	6	96	0.00	0.0	5.792	0.026	10	3	1	5
PL.1945	PL.1942	A	6 A (CWC)	7.40Y	123.3	0.00	1.69	1.55	1	11	3	96	0.00	0.0	5.843	0.051	11	3	4	4
PL.1943	PL.1941	A	#4 ACSR	7.40Y	123.3	0.01	1.69	2.91	2	21	6	96	0.00	0.0	5.829	0.063	7	2	5	6

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1946	PL.1943	A	#4 ACSR	7.40Y	123.3	0.00	1.69	1.99	2	14	4	96	0.00	0.0	5.876	0.047	14	4	1	1
PL.1944	PL.1941	A	6 A (CWC)	7.40Y	123.3	0.00	1.68	1.28	1	9	3	95	0.00	0.0	5.805	0.039	9	3	1	1
PL.1940	PL.1938	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	0.09	0	1	0	100	0.00	0.0	5.712	0.053	1	0	1	1
PL.2087	PL.2377	ABC	336 MCM AC	7.40Y	123.4	0.01	1.61	30.87	6	661	183	96	0.04	0.0	5.620	0.044	2	1	1	127
PL.2085	PL.2087	ABC	336 MCM AC	7.40Y	123.4	0.01	1.62	26.47	5	567	157	96	0.03	0.0	5.678	0.057	0	0	0	110
PL.2197	PL.2085	ABC	336 MCM AC	7.40Y	123.4	0.02	1.65	23.70	5	507	141	96	0.06	0.0	5.809	0.131	2	1	1	103
PL.2198	PL.2197	ABC	336 MCM AC	7.40Y	123.4	0.00	1.65	23.59	5	505	140	96	0.01	0.0	5.830	0.021	0	0	0	102
PL.2388	PL.2198	A	#2 ACSR	7.40Y	123.4	0.00	1.65	4.45	3	32	9	96	0.00	0.0	5.835	0.004	0	0	0	8
PD.265	PL.2388	A	15T	7.40Y	123.4	0.00	1.65	4.45	0	32	9	96	0.00	0.0	5.835	0.004	0	0	0	8
PL.2389	PD.265	A	#2 ACSR	7.40Y	123.3	0.00	1.65	4.45	3	32	9	96	0.00	0.0	5.844	0.009	4	1	3	8
PL.1954	PL.2389	A	#2 ACSR	7.40Y	123.3	0.00	1.65	3.93	2	28	8	96	0.00	0.0	5.863	0.019	0	0	0	5
PL.1955	PL.1954	A	#2 ACSR	7.40Y	123.3	0.01	1.66	3.93	2	28	8	96	0.00	0.0	5.918	0.054	2	1	2	5
PL.1956	PL.1955	A	#2 ACSR	7.40Y	123.3	0.01	1.67	3.58	2	26	7	97	0.00	0.0	5.965	0.047	0	0	0	3
PL.1957	PL.1956	A	#2 ACSR	7.40Y	123.3	0.01	1.67	3.58	2	26	7	97	0.00	0.0	6.034	0.070	18	5	2	3
PL.1958	PL.1957	A	#1/0 ACSR	7.40Y	123.3	0.00	1.67	1.08	0	8	2	97	0.00	0.0	6.123	0.089	0	0	0	1
PL.1959	PL.1958	A	#1/0 ACSR	7.40Y	123.3	0.00	1.67	1.08	0	8	2	97	0.00	0.0	6.156	0.033	8	2	1	1
PL.1953	PL.2198	ABC	336 MCM AC	7.40Y	123.3	0.01	1.65	22.10	4	473	131	96	0.01	0.0	5.862	0.032	0	0	0	94
PL.1962	PL.1953	C	#4 ACSR	7.40Y	123.3	0.00	1.66	1.14	1	8	2	97	0.00	0.0	5.887	0.025	8	2	1	1
PL.2570	PL.1953	ABC	336 MCM AC	7.40Y	123.3	0.01	1.66	21.72	4	465	129	96	0.02	0.0	5.915	0.052	0	0	0	93
PL.2571	PL.2570	ABC	336 MCM AC	7.40Y	123.3	0.01	1.67	21.72	4	465	129	96	0.01	0.0	5.949	0.035	7	2	1	93
PL.2202	PL.2571	ABC	336 MCM AC	7.40Y	123.3	0.00	1.67	21.41	4	458	127	96	0.00	0.0	5.960	0.011	14	4	4	92
PL.10163	PL.2202	C	#4 ACSR	7.40Y	123.3	0.00	1.67	0.00	0	0	0	100	0.00	0.0	5.962	0.002	0	0	0	0
PL.2203	PL.2202	ABC	336 MCM AC	7.40Y	123.3	0.01	1.68	20.76	4	444	123	96	0.02	0.0	6.010	0.050	0	0	1	88
PL.2392	PL.2203	ABC	336 MCM AC	7.40Y	123.3	0.01	1.69	20.76	4	444	123	96	0.02	0.0	6.071	0.061	0	0	0	87
PL.2393	PL.2392	ABC	336 MCM AC	7.40Y	123.3	0.00	1.69	20.76	4	444	123	96	0.00	0.0	6.076	0.004	0	0	0	87
PL.2390	PL.2393	C	#4 ACSR	7.40Y	123.3	0.00	1.69	2.30	2	16	5	95	0.00	0.0	6.080	0.005	0	0	0	2
PD.266	PL.2390	C	20T	7.40Y	123.3	0.00	1.69	2.30	0	16	5	95	0.00	0.0	6.080	0.005	0	0	0	2
PL.2391	PD.266	C	#4 ACSR	7.40Y	123.3	0.00	1.69	2.30	2	16	5	95	0.00	0.0	6.122	0.042	16	5	2	2
PL.2530	PL.2393	A	#4 ACSR	7.40Y	123.3	0.00	1.69	3.49	3	25	7	96	0.00	0.0	6.080	0.005	0	0	0	3
PD.336	PL.2530	A	20QA	7.40Y	123.3	0.00	1.69	3.49	17	25	7	96	0.00	0.0	6.080	0.005	0	0	0	3
PL.2531	PD.336	A	#4 ACSR	7.40Y	123.3	0.00	1.69	3.49	3	25	7	96	0.00	0.0	6.095	0.015	8	2	1	3

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2204	PL.2531	A	#2 ACSR	7.40Y	123.3	0.00	1.69	2.36	1	17	5	96	0.00	0.0	6.112	0.016	9	2	1	2
PL.2205	PL.2204	A	#2 ACSR	7.40Y	123.3	0.00	1.69	1.16	1	8	2	97	0.00	0.0	6.146	0.034	8	2	1	1
PL.2083	PL.2393	ABC	336 MCM AC	7.40Y	123.3	0.01	1.69	18.83	4	403	112	96	0.01	0.0	6.117	0.042	8	2	2	82
PL.2532	PL.2083	C	#4 ACSR	7.40Y	123.3	0.00	1.69	2.22	2	16	4	97	0.00	0.0	6.122	0.005	0	0	0	3
PD.337	PL.2532	C	20QA	7.40Y	123.3	0.00	1.69	2.22	11	16	4	97	0.00	0.0	6.122	0.005	0	0	0	3
PL.2533	PD.337	C	#4 ACSR	7.40Y	123.3	0.00	1.70	2.22	2	16	4	97	0.00	0.0	6.157	0.034	16	4	3	3
PL.2084	PL.2083	ABC	336 MCM AC	7.40Y	123.3	0.01	1.70	17.70	3	379	105	96	0.01	0.0	6.158	0.041	5	1	2	77
PL.2082	PL.2084	ABC	336 MCM AC	7.40Y	123.3	0.01	1.71	17.43	3	373	103	96	0.01	0.0	6.208	0.049	10	3	2	73
PL.1965	PL.2082	B	#4 ACSR	7.39Y	123.2	0.05	1.75	20.27	16	145	40	96	0.05	0.0	6.258	0.050	0	0	0	25
PL.2206	PL.1965	B	#4 ACSR	7.39Y	123.2	0.00	1.76	5.89	5	42	12	96	0.00	0.0	6.286	0.028	31	9	5	6
PL.2207	PL.2206	B	#4 ACSR	7.39Y	123.2	0.00	1.76	1.49	1	11	3	96	0.00	0.0	6.307	0.021	11	3	1	1
PL.1966	PL.1965	B	#4 ACSR	7.39Y	123.2	0.02	1.78	14.38	11	102	28	96	0.02	0.0	6.296	0.038	0	0	1	19
PL.2560	PL.1966	B	6 A (CWC)	7.39Y	123.2	0.00	1.78	14.38	10	102	28	96	0.00	0.0	6.299	0.003	0	0	0	18
PD.353	PL.2560	B	35H	7.39Y	123.2	0.00	1.78	14.38	41	102	28	96	0.00	0.0	6.299	0.003	0	0	0	18
PL.2561	PD.353	B	6 A (CWC)	7.39Y	123.2	0.04	1.82	14.38	10	102	28	96	0.03	0.0	6.363	0.064	13	4	2	18
PL.2208	PL.2561	B	6 A (CWC)	7.39Y	123.1	0.04	1.85	12.56	9	89	25	96	0.02	0.0	6.430	0.066	12	3	2	16
PL.2081	PL.2208	B	6 A (CWC)	7.39Y	123.1	0.04	1.89	10.83	8	77	21	96	0.02	0.0	6.516	0.086	2	1	1	14
PL.1967	PL.2081	B	#4 ACSR	7.39Y	123.1	0.00	1.90	0.45	0	3	1	95	0.00	0.0	6.594	0.079	3	1	1	1
PL.2209	PL.2081	B	6 A (CWC)	7.38Y	123.1	0.03	1.93	10.12	7	72	20	96	0.02	0.0	6.595	0.079	11	3	2	12
PL.2210	PL.2209	B	6 A (CWC)	7.38Y	123.0	0.03	1.96	8.61	6	61	17	96	0.01	0.0	6.668	0.073	2	0	1	10
PL.2211	PL.2210	B	6 A (CWC)	7.38Y	123.0	0.02	1.98	8.36	6	59	16	97	0.01	0.0	6.739	0.071	10	3	1	9
PL.1968	PL.2211	B	6 A (CWC)	7.38Y	123.0	0.00	1.98	1.84	1	13	4	96	0.00	0.0	6.777	0.039	13	4	2	2
PL.2078	PL.2211	B	6 A (CWC)	7.38Y	123.0	0.05	2.03	5.06	4	36	10	96	0.01	0.0	6.965	0.227	10	3	1	6
PL.2215	PL.2078	B	6 A (CWC)	7.38Y	122.9	0.03	2.06	3.69	3	26	7	97	0.01	0.0	7.143	0.178	0	0	0	5
PL.2216	PL.2215	B	6 A (CWC)	7.37Y	122.9	0.03	2.09	3.69	3	26	7	97	0.01	0.0	7.340	0.197	0	0	0	5
PL.1969	PL.2216	B	6 A (CWC)	7.37Y	122.9	0.01	2.10	2.62	2	19	5	97	0.00	0.0	7.397	0.057	7	2	1	3
PL.1971	PL.1969	B	#4 ACSR	7.37Y	122.9	0.00	2.10	1.59	1	11	3	96	0.00	0.0	7.420	0.023	11	3	2	2
PL.1970	PL.2216	B	6 A (CWC)	7.37Y	122.9	0.00	2.09	1.07	1	8	2	97	0.00	0.0	7.377	0.036	8	2	2	2
PL.1964	PL.2082	ABC	336 MCM AC	7.40Y	123.3	0.01	1.71	10.19	2	218	60	96	0.01	0.0	6.292	0.084	14	4	2	46
PL.2080	PL.1964	ABC	336 MCM AC	7.40Y	123.3	0.01	1.72	9.53	2	204	56	96	0.01	0.0	6.374	0.082	0	0	0	44
PL.2534	PL.2080	C	#4 ACSR	7.40Y	123.3	0.00	1.72	1.02	1	7	2	96	0.00	0.0	6.379	0.005	0	0	0	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.338	PL.2534	C	40QA	7.40Y	123.3	0.00	1.72	1.02	3	7	2	96	0.00	0.0	6.379	0.005	0	0	0	1
PL.2535	PD.338	C	#4 ACSR	7.40Y	123.3	0.00	1.72	1.02	1	7	2	96	0.00	0.0	6.384	0.005	7	2	1	1
PL.2077	PL.2080	ABC	336 MCM AC	7.40Y	123.3	0.00	1.72	8.91	2	190	53	96	0.00	0.0	6.431	0.057	0	0	0	41
PL.2076	PL.2077	ABC	336 MCM AC	7.40Y	123.3	0.00	1.72	8.15	2	174	48	96	0.00	0.0	6.477	0.047	2	1	1	39
PL.2075	PL.2076	ABC	336 MCM AC	7.40Y	123.3	0.00	1.73	7.09	1	152	42	96	0.00	0.0	6.568	0.091	13	4	3	32
PL.2470	PL.2075	A	#4 ACSR	7.40Y	123.3	0.00	1.73	3.54	3	25	7	96	0.00	0.0	6.573	0.005	0	0	0	5
PD.306	PL.2470	A	20QA	7.40Y	123.3	0.00	1.73	3.54	18	25	7	96	0.00	0.0	6.573	0.005	0	0	0	5
PL.2471	PD.306	A	#4 ACSR	7.40Y	123.3	0.00	1.73	3.54	3	25	7	96	0.00	0.0	6.597	0.024	25	7	5	5
PL.2212	PL.2075	ABC	336 MCM AC	7.40Y	123.3	0.00	1.73	5.30	1	113	31	96	0.00	0.0	6.626	0.058	0	0	0	24
PL.2213	PL.2212	ABC	336 MCM AC	7.40Y	123.3	0.00	1.73	5.30	1	113	31	96	0.00	0.0	6.676	0.050	15	4	4	24
PL.2548	PL.2213	ABC	336 MCM AC	7.40Y	123.3	0.00	1.73	4.61	1	99	27	96	0.00	0.0	6.703	0.027	0	0	0	20
PD.345-A	PL.2548	ABC	Closed	7.40Y	123.3	0.00	1.73	4.61	0	99	27	96	0.00	0.0	6.703	0.027	0	0	0	20
PD.345-B	PD.345-A	ABC	Closed	7.40Y	123.3	0.00	1.73	4.61	0	99	27	96	0.00	0.0	6.703	0.027	0	0	0	20
PL.4873	PD.345-B	ABC	336 MCM AC	7.40Y	123.3	0.01	1.74	4.61	1	99	27	96	0.01	0.0	7.014	0.310	0	0	0	20
PL.4874	PL.4873	ABC	336 MCM AC	7.39Y	123.2	0.01	1.76	4.61	1	99	27	96	0.01	0.0	7.373	0.359	0	0	0	20
PL.4872	PL.4874	ABC	336 MCM AC	7.39Y	123.2	0.01	1.77	4.61	1	99	27	96	0.01	0.0	7.778	0.404	0	0	0	20
PD.346-A	PL.4872	ABC	Closed	7.39Y	123.2	0.00	1.77	4.61	0	99	27	96	0.00	0.0	7.778	0.404	0	0	0	20
PD.346-B	PD.346-A	ABC	Closed	7.39Y	123.2	0.00	1.77	4.61	0	99	27	96	0.00	0.0	7.778	0.404	0	0	0	20
PL.2551	PD.346-B	ABC	336 MCM AC	7.39Y	123.2	0.00	1.77	4.61	1	99	27	96	0.00	0.0	7.896	0.119	0	0	0	20
PL.1974	PL.2551	C	#2 ACSR	7.39Y	123.2	0.00	1.77	0.72	0	5	1	98	0.00	0.0	7.915	0.019	5	1	1	1
PL.2068	PL.2551	ABC	336 MCM AC	7.39Y	123.2	0.00	1.78	4.37	1	93	26	96	0.00	0.0	7.947	0.050	6	2	2	19
PL.2400	PL.2068	C	#4 ACSR	7.39Y	123.2	0.00	1.78	2.55	2	18	5	96	0.00	0.0	7.951	0.005	0	0	0	2
PD.270	PL.2400	C	20QA	7.39Y	123.2	0.00	1.78	2.55	13	18	5	96	0.00	0.0	7.951	0.005	0	0	0	2
PL.2401	PD.270	C	#4 ACSR	7.39Y	123.2	0.00	1.78	2.55	2	18	5	96	0.00	0.0	8.015	0.064	18	5	2	2
PL.2066	PL.2068	ABC	336 MCM AC	7.39Y	123.2	0.00	1.78	3.22	1	69	19	96	0.00	0.0	8.154	0.208	4	1	1	15
PL.2217	PL.2066	ABC	336 MCM AC	7.39Y	123.2	0.00	1.78	3.02	1	65	18	96	0.00	0.0	8.200	0.046	3	1	1	14
PL.2218	PL.2217	ABC	336 MCM AC	7.39Y	123.2	0.00	1.78	2.89	1	62	17	96	0.00	0.0	8.230	0.031	0	0	0	13
PL.2402	PL.2218	C	#4 ACSR	7.39Y	123.2	0.00	1.78	0.95	1	7	2	96	0.00	0.0	8.235	0.005	0	0	0	4
PD.271	PL.2402	C	20QA	7.39Y	123.2	0.00	1.78	0.95	5	7	2	96	0.00	0.0	8.235	0.005	0	0	0	4
PL.2403	PD.271	C	#4 ACSR	7.39Y	123.2	0.00	1.78	0.95	1	7	2	96	0.00	0.0	8.314	0.079	7	2	4	4
PL.2062	PL.2218	ABC	336 MCM AC	7.39Y	123.2	0.00	1.78	2.57	0	55	15	96	0.00	0.0	8.283	0.052	0	0	0	9

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2404	PL.2062	A	#4 ACSR	7.39Y	123.2	0.00	1.78	1.85	1	13	4	96	0.00	0.0	8.288	0.005	0	0	0	4
PD.272	PL.2404	A	20QA	7.39Y	123.2	0.00	1.78	1.85	9	13	4	96	0.00	0.0	8.288	0.005	0	0	0	4
PL.2405	PD.272	A	#4 ACSR	7.39Y	123.2	0.00	1.78	1.85	1	13	4	96	0.00	0.0	8.302	0.014	4	1	1	4
PL.2219	PL.2405	A	#4 ACSR	7.39Y	123.2	0.00	1.79	1.28	1	9	3	95	0.00	0.0	8.325	0.023	9	3	3	3
PL.2061	PL.2062	ABC	336 MCM AC	7.39Y	123.2	0.00	1.78	1.95	0	42	12	96	0.00	0.0	8.365	0.082	0	0	0	5
PL.2060	PL.2061	ABC	336 MCM AC	7.39Y	123.2	0.00	1.79	0.44	0	9	3	95	0.00	0.0	8.519	0.155	0	0	0	1
PL.2059	PL.2060	ABC	336 MCM AC	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	9.062	0.543	0	0	0	0
PL.4865	PL.2059	ABC	336 MCM AC	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	9.449	0.387	0	0	0	0
PL.4867	PL.4865	ABC	336 MCM AC	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	9.999	0.551	0	0	0	0
PL.4866	PL.4867	ABC	336 MCM AC	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	10.393	0.394	0	0	0	0
PL.7126	PL.4866	ABC	336 MCM AC	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	10.396	0.003	0	0	0	0
PD.1506-B	PL.7126	ABC	Open	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	10.396	0.003	0	0	0	0
PL.1980	PL.4866	ABC	#2 ACSR	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	10.410	0.017	0	0	0	0
PL.64959	PL.1980	ABC	#2 ACSR	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	10.410	0.000	0	0	0	0
PD.9573-A	PL.64959	ABC	Open	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	10.410	0.000	0	0	0	0
PL.4868	PL.2060	A	#2 ACSR	7.39Y	123.2	0.00	1.79	1.31	1	9	3	95	0.00	0.0	8.523	0.003	0	0	0	1
PD.898	PL.4868	A	20QA	7.39Y	123.2	0.00	1.79	1.31	7	9	3	95	0.00	0.0	8.523	0.003	0	0	0	1
PL.4869	PD.898	A	#2 ACSR	7.39Y	123.2	0.00	1.79	1.31	1	9	3	95	0.00	0.0	8.548	0.025	9	3	1	1
PL.4870	PL.2061	A	#4 ACSR	7.39Y	123.2	0.00	1.79	4.56	4	32	9	96	0.00	0.0	8.368	0.003	0	0	0	4
PD.899	PL.4870	A	20QA	7.39Y	123.2	0.00	1.79	4.56	23	32	9	96	0.00	0.0	8.368	0.003	0	0	0	4
PL.4871	PD.899	A	#4 ACSR	7.39Y	123.2	0.00	1.79	4.56	4	32	9	96	0.00	0.0	8.400	0.032	32	9	4	4
PL.1975	PL.4871	A	#4 ACSR	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	8.407	0.006	0	0	0	0
PL.2472	PL.2066	A	#4 ACSR	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	8.159	0.005	0	0	0	0
PD.307	PL.2472	A	20QA	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	8.159	0.005	0	0	0	0
PL.2473	PD.307	A	#4 ACSR	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	8.213	0.054	0	0	0	0
PL.2398	PL.2076	A	#4 ACSR	7.40Y	123.3	0.00	1.72	2.90	2	21	6	96	0.00	0.0	6.482	0.005	0	0	0	6
PD.269	PL.2398	A	20QA	7.40Y	123.3	0.00	1.72	2.90	14	21	6	96	0.00	0.0	6.482	0.005	0	0	0	6
PL.2399	PD.269	A	#4 ACSR	7.40Y	123.3	0.00	1.73	2.90	2	21	6	96	0.00	0.0	6.538	0.056	21	6	6	6
PL.2540	PL.2077	C	#2 ACSR	7.40Y	123.3	0.00	1.72	2.26	1	16	4	97	0.00	0.0	6.435	0.005	0	0	0	2
PD.340	PL.2540	C	20QA	7.40Y	123.3	0.00	1.72	2.26	11	16	4	97	0.00	0.0	6.435	0.005	0	0	0	2
PL.2541	PD.340	C	#2 ACSR	7.40Y	123.3	0.00	1.72	2.26	1	16	4	97	0.00	0.0	6.461	0.026	6	2	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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1972	PL.2541	C	#2 ACSR	7.40Y	123.3	0.00	1.72	1.45	1	10	3	96	0.00	0.0	6.477	0.015	10	3	1	1
PL.2396	PL.2077	A	#2 ACSR	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	6.435	0.005	0	0	0	0
PD.268	PL.2396	A	20QA	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	6.435	0.005	0	0	0	0
PL.2397	PD.268	A	#2 ACSR	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	6.454	0.019	0	0	0	0
PL.2538	PL.2080	A	#4 ACSR	7.40Y	123.3	0.00	1.72	0.87	1	6	2	95	0.00	0.0	6.379	0.005	0	0	0	2
PD.339	PL.2538	A	40QA	7.40Y	123.3	0.00	1.72	0.87	2	6	2	95	0.00	0.0	6.379	0.005	0	0	0	2
PL.2539	PD.339	A	#4 ACSR	7.40Y	123.3	0.00	1.72	0.87	1	6	2	95	0.00	0.0	6.394	0.015	6	2	2	2
PL.2394	PL.2084	A	#4 ACSR	7.40Y	123.3	0.00	1.70	0.09	0	1	0	100	0.00	0.0	6.163	0.005	0	0	0	2
PD.267	PL.2394	A	20QA	7.40Y	123.3	0.00	1.70	0.09	0	1	0	100	0.00	0.0	6.163	0.005	0	0	0	2
PL.2395	PD.267	A	#4 ACSR	7.40Y	123.3	0.00	1.70	0.09	0	1	0	100	0.00	0.0	6.198	0.035	1	0	2	2
CP.5	PL.2570	ABC	Cap (300)	7.40Y	123.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	5.915	0.035	0	0	0	0
PL.1947	PL.2085	B	#2 ACSR	7.40Y	123.4	0.01	1.63	8.30	5	59	16	97	0.00	0.0	5.704	0.026	0	0	0	7
PL.2386	PL.1947	B	#2 ACSR	7.40Y	123.4	0.00	1.63	8.30	5	59	16	97	0.00	0.0	5.709	0.005	0	0	0	7
PD.264	PL.2386	B	15T	7.40Y	123.4	0.00	1.63	8.30	0	59	16	97	0.00	0.0	5.709	0.005	0	0	0	7
PL.2387	PD.264	B	#2 ACSR	7.40Y	123.4	0.01	1.64	8.30	5	59	16	97	0.01	0.0	5.758	0.049	0	0	0	7
PL.1948	PL.2387	B	#2 ACSR	7.40Y	123.3	0.01	1.66	8.30	5	59	16	97	0.01	0.0	5.804	0.047	0	0	0	7
PL.1949	PL.1948	B	#4 ACSR	7.40Y	123.3	0.01	1.67	8.30	6	59	16	97	0.01	0.0	5.847	0.042	12	3	2	7
PL.1950	PL.1949	B	#4 ACSR	7.40Y	123.3	0.02	1.69	6.57	5	47	13	96	0.01	0.0	5.904	0.057	5	1	1	5
PL.1951	PL.1950	B	#4 ACSR	7.40Y	123.3	0.00	1.69	5.87	5	42	12	96	0.00	0.0	5.932	0.028	33	9	3	4
PL.1952	PL.1951	B	#2 ACSR	7.40Y	123.3	0.00	1.69	1.22	1	9	2	98	0.00	0.0	5.973	0.041	9	2	1	1
PL.2528	PL.2087	A	#4 ACSR	7.40Y	123.4	0.00	1.61	12.60	10	90	25	96	0.00	0.0	5.625	0.005	0	0	0	15
PD.335	PL.2528	A	30T	7.40Y	123.4	0.00	1.61	12.60	0	90	25	96	0.00	0.0	5.625	0.005	0	0	0	15
PL.2529	PD.335	A	#4 ACSR	7.40Y	123.4	0.02	1.63	12.60	10	90	25	96	0.01	0.0	5.659	0.034	0	0	0	15
PL.1934	PL.2529	A	#4 ACSR	7.40Y	123.3	0.04	1.67	12.07	9	86	24	96	0.02	0.0	5.726	0.066	0	0	0	12
PL.1937	PL.1934	A	#4 ACSR	7.40Y	123.3	0.00	1.67	0.39	0	3	1	95	0.00	0.0	5.765	0.039	3	1	1	1
PL.1935	PL.1934	A	#4 ACSR	7.40Y	123.3	0.03	1.70	10.35	8	74	20	97	0.02	0.0	5.796	0.071	12	3	1	9
PL.2199	PL.1935	A	#4 ACSR	7.40Y	123.3	0.01	1.71	8.64	7	62	17	96	0.00	0.0	5.827	0.030	15	4	2	8
PL.2200	PL.2199	A	#4 ACSR	7.40Y	123.3	0.01	1.72	6.51	5	46	13	96	0.00	0.0	5.855	0.029	8	2	1	6
PL.2201	PL.2200	A	#4 ACSR	7.40Y	123.3	0.00	1.72	5.32	4	38	10	97	0.00	0.0	5.883	0.028	27	7	3	5
PL.1961	PL.2201	A	#4 ACSR	7.40Y	123.3	0.00	1.72	1.52	1	11	3	96	0.00	0.0	5.931	0.048	0	0	0	2
PL.1963	PL.1961	A	#4 ACSR	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	5.954	0.023	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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2195	PL.1961	A	#4 ACSR	7.40Y	123.3	0.00	1.73	1.52	1	11	3	96	0.00	0.0	5.958	0.027	4	1	1	2
PL.2196	PL.2195	A	#4 ACSR	7.40Y	123.3	0.00	1.73	0.91	1	6	2	95	0.00	0.0	5.975	0.016	6	2	1	1
PL.10162	PL.2201	A	#4 ACSR	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	5.931	0.048	0	0	0	0
PL.1936	PL.1934	A	#4 ACSR	7.40Y	123.3	0.00	1.67	1.33	1	10	3	96	0.00	0.0	5.795	0.069	10	3	2	2
PL.2193	PL.2529	A	#4 ACSR	7.40Y	123.4	0.00	1.63	0.52	0	4	1	97	0.00	0.0	5.686	0.026	3	1	1	3
PL.2194	PL.2193	A	#4 ACSR	7.40Y	123.4	0.00	1.63	0.14	0	1	0	100	0.00	0.0	5.716	0.030	1	0	2	2
PL.2384	PL.2087	A	#4 ACSR	7.40Y	123.4	0.00	1.61	0.28	0	2	1	89	0.00	0.0	5.625	0.005	0	0	0	1
PD.263	PL.2384	A	40QA	7.40Y	123.4	0.00	1.61	0.28	1	2	1	89	0.00	0.0	5.625	0.005	0	0	0	1
PL.2385	PD.263	A	#4 ACSR	7.40Y	123.4	0.00	1.61	0.28	0	2	1	89	0.00	0.0	5.658	0.033	0	0	0	1
PL.1929	PL.2385	A	#4 ACSR	7.40Y	123.4	0.00	1.61	0.28	0	2	1	89	0.00	0.0	5.691	0.033	2	1	1	1
PL.2370	PL.2372	C	#4 ACSR	7.41Y	123.4	0.00	1.55	1.66	1	12	3	97	0.00	0.0	5.403	0.005	0	0	0	2
PD.258	PL.2370	C	40QA	7.41Y	123.4	0.00	1.55	1.66	4	12	3	97	0.00	0.0	5.403	0.005	0	0	0	2
PL.2371	PD.258	C	#4 ACSR	7.41Y	123.4	0.00	1.55	1.66	1	12	3	97	0.00	0.0	5.414	0.011	12	3	2	2
PL.2358	PL.2092	C	#4 ACSR	7.41Y	123.5	0.00	1.51	2.82	2	20	6	96	0.00	0.0	5.239	0.005	0	0	0	3
PD.252	PL.2358	C	40QA	7.41Y	123.5	0.00	1.51	2.82	7	20	6	96	0.00	0.0	5.239	0.005	0	0	0	3
PL.2359	PD.252	C	#4 ACSR	7.41Y	123.5	0.00	1.51	2.82	2	20	6	96	0.00	0.0	5.265	0.026	20	6	3	3
PL.2366	PL.2093	A	#4 ACSR	7.41Y	123.5	0.00	1.50	2.28	2	16	4	97	0.00	0.0	5.207	0.005	0	0	0	5
PD.256	PL.2366	A	40QA	7.41Y	123.5	0.00	1.50	2.28	6	16	4	97	0.00	0.0	5.207	0.005	0	0	0	5
PL.2367	PD.256	A	#4 ACSR	7.41Y	123.5	0.00	1.50	2.28	2	16	4	97	0.00	0.0	5.233	0.027	9	3	4	5
PL.1925	PL.2367	A	#2 ACSR	7.41Y	123.5	0.00	1.50	0.98	1	7	2	96	0.00	0.0	5.245	0.012	0	0	0	1
PL.1926	PL.1925	A	#2 ACSR	7.41Y	123.5	0.00	1.50	0.98	1	7	2	96	0.00	0.0	5.258	0.012	0	0	0	1
PL.1927	PL.1926	A	#2 ACSR	7.41Y	123.5	0.00	1.50	0.98	1	7	2	96	0.00	0.0	5.301	0.043	7	2	1	1
PL.1850	PL.2188	ABC	#1/0 ACSR	7.41Y	123.5	0.04	1.48	47.74	21	1022	288	96	0.25	0.0	5.067	0.043	46	13	10	215
PL.1851	PL.1850	ABC	#1/0 ACSR	7.41Y	123.5	0.04	1.52	45.61	20	976	275	96	0.25	0.0	5.113	0.046	11	3	3	205
PL.1854	PL.1851	ABC	#1/0 ACSR	7.41Y	123.4	0.05	1.56	45.08	20	964	272	96	0.31	0.0	5.170	0.057	0	0	0	202
PL.1855	PL.1854	ABC	8 A (CWC)	7.40Y	123.4	0.03	1.59	25.47	25	544	155	96	0.14	0.0	5.190	0.020	0	0	0	99
PL.1857	PL.1855	ABC	8 A (CWC)	7.40Y	123.3	0.08	1.68	25.47	25	544	155	96	0.37	0.1	5.245	0.055	7	2	1	99
PL.1861	PL.1857	ABC	8 A (CWC)	7.40Y	123.3	0.06	1.74	25.16	25	537	153	96	0.25	0.0	5.283	0.038	14	4	1	98
PL.2356	PL.1861	C	#2 ACSR	7.40Y	123.3	0.00	1.74	5.84	3	42	12	96	0.00	0.0	5.288	0.004	0	0	0	7
PD.251	PL.2356	C	40QA	7.40Y	123.3	0.00	1.74	5.84	15	42	12	96	0.00	0.0	5.288	0.004	0	0	0	7
PL.2357	PD.251	C	#2 ACSR	7.40Y	123.3	0.00	1.74	5.84	3	42	12	96	0.00	0.0	5.312	0.024	5	1	1	7

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2186	PL.2357	C	#2 ACSR	7.40Y	123.3	0.01	1.75	5.08	3	36	10	96	0.00	0.0	5.365	0.053	0	0	0	6
PL.4512	PL.2186	C	#4 ACSR	7.39Y	123.2	0.00	1.75	2.29	2	16	5	95	0.00	0.0	5.380	0.015	6	2	1	2
PL.4513	PL.4512	C	#4 ACSR	7.39Y	123.2	0.00	1.75	1.40	1	10	3	96	0.00	0.0	5.403	0.022	10	3	1	1
PL.2090	PL.2186	C	#2 ACSR	7.39Y	123.2	0.00	1.75	2.79	2	20	5	97	0.00	0.0	5.401	0.035	0	0	0	4
PL.1864	PL.2090	C	#4 ACSR	7.39Y	123.2	0.00	1.76	2.79	2	20	5	97	0.00	0.0	5.448	0.047	20	5	4	4
PL.1862	PL.1861	ABC	#2 ACSR	7.39Y	123.2	0.04	1.77	22.57	13	481	138	96	0.14	0.0	5.352	0.069	5	1	2	90
PL.1889	PL.1862	ABC	#2 ACSR	7.39Y	123.2	0.03	1.81	22.33	13	476	137	96	0.12	0.0	5.413	0.061	24	12	1	88
PL.1890	PL.1889	ABC	#2 ACSR	7.39Y	123.2	0.02	1.83	21.16	12	452	125	96	0.08	0.0	5.458	0.045	1	0	2	87
PL.1892	PL.1890	A	#2 ACSR	7.39Y	123.2	0.00	1.83	3.79	2	27	7	97	0.00	0.0	5.463	0.005	0	0	0	5
PD.333	PL.1892	A	40QA	7.39Y	123.2	0.00	1.83	3.79	9	27	7	97	0.00	0.0	5.463	0.005	0	0	0	5
PL.2006	PD.333	A	#2 ACSR	7.39Y	123.2	0.01	1.84	3.79	2	27	7	97	0.00	0.0	5.514	0.051	7	2	3	5
PL.1893	PL.2006	A	#4 ACSR	7.39Y	123.2	0.00	1.84	2.74	2	19	5	97	0.00	0.0	5.563	0.050	8	2	1	2
PL.1894	PL.1893	A	#4 ACSR	7.39Y	123.2	0.00	1.85	1.60	1	11	3	96	0.00	0.0	5.630	0.067	11	3	1	1
PL.2368	PL.1890	C	6 A (CWC)	7.39Y	123.2	0.00	1.84	13.30	9	95	26	96	0.00	0.0	5.463	0.005	0	0	0	16
PD.257	PL.2368	C	40QA	7.39Y	123.2	0.00	1.84	13.30	33	95	26	96	0.00	0.0	5.463	0.005	0	0	0	16
PL.2369	PD.257	C	6 A (CWC)	7.39Y	123.1	0.03	1.86	13.30	9	95	26	96	0.02	0.0	5.506	0.043	5	1	1	16
PL.1895	PL.2369	C	6 A (CWC)	7.39Y	123.1	0.05	1.91	12.60	9	90	25	96	0.03	0.0	5.589	0.083	0	0	0	15
PL.1896	PL.1895	C	#4 ACSR	7.38Y	123.1	0.01	1.92	7.62	6	54	15	96	0.00	0.0	5.623	0.034	7	2	1	9
PL.1902	PL.1896	C	#4 ACSR	7.38Y	123.1	0.01	1.93	6.62	5	47	13	96	0.00	0.0	5.662	0.039	9	2	2	8
PL.1903	PL.1902	C	#2 ACSR	7.38Y	123.1	0.00	1.93	1.20	1	9	2	98	0.00	0.0	5.736	0.074	9	2	2	2
PL.1904	PL.1902	C	#4 ACSR	7.38Y	123.1	0.01	1.94	4.18	3	30	8	97	0.00	0.0	5.704	0.041	8	2	1	4
PL.1905	PL.1904	C	#2 ACSR	7.38Y	123.1	0.00	1.94	2.32	1	17	5	96	0.00	0.0	5.768	0.065	9	2	1	2
PL.1907	PL.1905	C	#2 ACSR	7.38Y	123.1	0.00	1.94	1.08	1	8	2	97	0.00	0.0	5.829	0.061	8	2	1	1
PL.1906	PL.1904	C	#2 ACSR	7.38Y	123.1	0.00	1.94	0.69	0	5	1	98	0.00	0.0	5.810	0.107	5	1	1	1
PL.1897	PL.1895	C	#2 ACSR	7.39Y	123.1	0.00	1.91	4.98	3	35	10	96	0.00	0.0	5.622	0.033	13	3	2	6
PL.1898	PL.1897	C	#2 ACSR	7.39Y	123.1	0.00	1.92	3.21	2	23	6	97	0.00	0.0	5.647	0.025	0	0	1	4
PL.1899	PL.1898	C	#2 ACSR	7.38Y	123.1	0.01	1.93	3.21	2	23	6	97	0.00	0.0	5.742	0.096	0	0	0	3
PL.1901	PL.1899	C	#2 ACSR	7.38Y	123.1	0.00	1.93	1.50	1	11	3	96	0.00	0.0	5.765	0.023	11	3	1	1
PL.1900	PL.1899	C	#2 ACSR	7.38Y	123.1	0.00	1.93	1.71	1	12	3	97	0.00	0.0	5.779	0.037	12	3	2	2
PL.1891	PL.1890	ABC	#2 ACSR	7.39Y	123.1	0.02	1.85	15.42	9	330	91	96	0.05	0.0	5.512	0.054	12	3	2	64
PL.1908	PL.1891	ABC	#2 ACSR	7.39Y	123.1	0.02	1.87	9.70	6	207	57	96	0.03	0.0	5.600	0.088	26	7	5	44

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2380	PL.1908	A	6 A (CWC)	7.39Y	123.1	0.00	1.87	1.22	1	9	2	98	0.00	0.0	5.605	0.005	0	0	0	2
PD.261	PL.2380	A	10T	7.39Y	123.1	0.00	1.87	1.22	0	9	2	98	0.00	0.0	5.605	0.005	0	0	0	2
PL.2381	PD.261	A	6 A (CWC)	7.39Y	123.1	0.00	1.88	1.22	1	9	2	98	0.00	0.0	5.703	0.098	9	2	2	2
PL.1913	PL.1908	ABC	#2 ACSR	7.39Y	123.1	0.01	1.89	8.07	5	172	48	96	0.02	0.0	5.668	0.068	9	3	4	37
PL.1914	PL.1913	ABC	#2 ACSR	7.39Y	123.1	0.00	1.89	7.63	4	163	45	96	0.01	0.0	5.696	0.028	34	9	6	33
PL.1915	PL.1914	ABC	#2 ACSR	7.39Y	123.1	0.01	1.90	6.04	3	129	36	96	0.01	0.0	5.769	0.072	28	8	5	27
PL.1916	PL.1915	ABC	#2 ACSR	7.39Y	123.1	0.01	1.91	4.73	3	101	28	96	0.00	0.0	5.820	0.051	14	4	2	22
PL.1917	PL.1916	ABC	#2 ACSR	7.39Y	123.1	0.00	1.91	4.06	2	87	24	96	0.00	0.0	5.873	0.053	24	7	5	20
PL.2526	PL.1917	C	#2 ACSR	7.39Y	123.1	0.00	1.91	8.85	5	63	17	97	0.00	0.0	5.878	0.005	0	0	0	15
PD.334	PL.2526	C	40QA	7.39Y	123.1	0.00	1.91	8.85	22	63	17	97	0.00	0.0	5.878	0.005	0	0	0	15
PL.2527	PD.334	C	#2 ACSR	7.38Y	123.1	0.01	1.93	8.85	5	63	17	97	0.01	0.0	5.936	0.058	20	6	4	15
PL.1918	PL.2527	C	#2 ACSR	7.38Y	123.1	0.01	1.93	4.26	2	30	8	97	0.00	0.0	6.013	0.077	14	4	5	9
PL.1922	PL.1918	C	#4 ACSR	7.38Y	123.1	0.00	1.94	0.27	0	2	1	89	0.00	0.0	6.078	0.065	2	1	1	1
PL.1923	PL.1918	C	#1/0 ACSR	7.38Y	123.1	0.00	1.94	2.06	1	15	4	97	0.00	0.0	6.083	0.069	15	4	3	3
PL.1919	PL.2527	C	#2 ACSR	7.38Y	123.1	0.00	1.93	1.72	1	12	3	97	0.00	0.0	5.951	0.015	9	3	1	2
PL.1920	PL.1919	C	#2 ACSR	7.38Y	123.1	0.00	1.93	0.44	0	3	1	95	0.00	0.0	5.982	0.031	0	0	0	1
PL.1921	PL.1920	C	#2 ACSR	7.38Y	123.1	0.00	1.93	0.44	0	3	1	95	0.00	0.0	6.003	0.021	3	1	1	1
PL.2378	PL.1891	C	#4 ACSR	7.39Y	123.1	0.00	1.85	8.57	7	61	17	96	0.00	0.0	5.516	0.005	0	0	0	9
PD.260	PL.2378	C	40QA	7.39Y	123.1	0.00	1.85	8.57	21	61	17	96	0.00	0.0	5.516	0.005	0	0	0	9
PL.2379	PD.260	C	#4 ACSR	7.39Y	123.1	0.01	1.87	8.57	7	61	17	96	0.01	0.0	5.548	0.032	0	0	0	9
PL.1911	PL.2379	C	6 A (CWC)	7.39Y	123.1	0.00	1.87	3.09	2	22	6	96	0.00	0.0	5.603	0.055	22	6	4	4
PL.1910	PL.2379	C	#4 ACSR	7.39Y	123.1	0.00	1.87	5.48	4	39	11	96	0.00	0.0	5.564	0.016	32	9	4	5
PL.1912	PL.1910	C	#4 ACSR	7.39Y	123.1	0.00	1.87	0.98	1	7	2	96	0.00	0.0	5.579	0.015	7	2	1	1
PL.1909	PL.1891	C	#4 ACSR	7.39Y	123.1	0.01	1.86	6.90	5	49	14	96	0.00	0.0	5.554	0.043	49	14	9	9
PL.2274	PL.1861	C	#4 ACSR	7.40Y	123.3	0.00	1.74	0.00	0	0	0	100	0.00	0.0	5.288	0.005	0	0	0	0
PL.1856	PL.1854	ABC	#2 ACSR	7.41Y	123.4	0.01	1.57	19.61	11	420	116	96	0.02	0.0	5.185	0.015	6	2	3	103
PL.1858	PL.1856	ABC	#2 ACSR	7.40Y	123.4	0.01	1.59	19.34	11	414	115	96	0.04	0.0	5.214	0.029	5	1	1	100
PL.1859	PL.1858	ABC	#2 ACSR	7.40Y	123.4	0.01	1.59	19.10	11	409	113	96	0.02	0.0	5.228	0.014	0	0	0	99
PL.1860	PL.1859	ABC	#2 ACSR	7.40Y	123.4	0.06	1.65	19.10	11	409	113	96	0.17	0.0	5.347	0.119	10	3	1	99
PL.1866	PL.1860	ABC	#2 ACSR	7.40Y	123.3	0.01	1.66	18.64	11	399	110	96	0.03	0.0	5.371	0.024	0	0	0	98
PL.1867	PL.1866	ABC	#2 ACSR	7.40Y	123.3	0.00	1.66	18.64	11	399	110	96	0.00	0.0	5.373	0.003	45	12	13	98

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1868	PL.1867	ABC	#2 ACSR	7.40Y	123.3	0.01	1.67	16.56	9	354	98	96	0.03	0.0	5.403	0.029	0	0	0	85
PL.1869	PL.1868	ABC	#2 ACSR	7.40Y	123.3	0.01	1.68	15.84	9	339	94	96	0.03	0.0	5.432	0.029	9	2	7	79
PL.1871	PL.1869	ABC	#2 ACSR	7.40Y	123.3	0.02	1.71	15.41	9	330	91	96	0.06	0.0	5.498	0.067	30	8	6	72
PL.2558	PL.1871	A	6 A (CWC)	7.40Y	123.3	0.00	1.71	25.01	18	178	49	96	0.00	0.0	5.501	0.003	0	0	0	31
PD.352	PL.2558	A	70L	7.40Y	123.3	0.00	1.71	25.01	36	178	49	96	0.00	0.0	5.501	0.003	0	0	0	31
PL.2559	PD.352	A	6 A (CWC)	7.39Y	123.2	0.09	1.80	25.01	18	178	49	96	0.12	0.1	5.582	0.081	5	1	1	31
PL.1872	PL.2559	A	8 A (CWC)	7.39Y	123.1	0.08	1.89	24.37	24	174	48	96	0.11	0.1	5.637	0.055	19	5	4	30
PL.1989	PL.1872	A	6 A (CWC)	7.38Y	123.1	0.05	1.94	6.49	5	46	13	96	0.02	0.0	5.807	0.170	0	0	0	6
PL.1990	PL.1989	A	6 A (CWC)	7.38Y	123.0	0.04	1.98	6.49	5	46	13	96	0.02	0.0	5.954	0.148	0	0	0	6
PL.1992	PL.1990	A	6 A (CWC)	7.38Y	123.0	0.01	2.00	2.27	2	16	4	97	0.00	0.0	6.073	0.118	0	0	0	2
PL.1998	PL.1992	A	6 A (CWC)	7.38Y	123.0	0.01	2.00	2.27	2	16	4	97	0.00	0.0	6.149	0.077	0	0	0	2
PL.2000	PL.1998	A	6 A (CWC)	7.38Y	123.0	0.01	2.01	2.27	2	16	4	97	0.00	0.0	6.270	0.121	16	4	2	2
PL.2271	PL.2000	A	6 A (CWC)	7.38Y	123.0	0.00	2.01	0.00	0	0	0	100	0.00	0.0	6.275	0.005	0	0	0	0
PL.1993	PL.1990	A	6 A (CWC)	7.38Y	123.0	0.02	2.00	4.22	3	30	8	97	0.00	0.0	6.069	0.115	9	2	1	4
PL.1995	PL.1993	A	6 A (CWC)	7.38Y	123.0	0.00	2.00	2.99	2	21	6	96	0.00	0.0	6.089	0.020	0	0	0	3
PL.2262	PL.1995	A	6 A (CWC)	7.38Y	123.0	0.01	2.01	2.99	2	21	6	96	0.00	0.0	6.184	0.095	21	6	3	3
PL.2263	PL.2262	A	6 A (CWC)	7.38Y	123.0	0.00	2.01	0.00	0	0	0	100	0.00	0.0	6.214	0.030	0	0	0	0
PL.1873	PL.1872	A	8 A (CWC)	7.38Y	123.1	0.03	1.92	15.23	15	108	30	96	0.03	0.0	5.672	0.035	7	2	1	20
PL.1875	PL.1873	A	8 A (CWC)	7.38Y	123.1	0.02	1.95	8.58	9	61	17	96	0.01	0.0	5.713	0.041	6	2	2	11
PL.1586	PL.1875	A	8 A (CWC)	7.38Y	123.0	0.01	1.96	7.74	8	55	15	96	0.00	0.0	5.734	0.020	8	2	2	9
PL.1587	PL.1586	A	8 A (CWC)	7.38Y	123.0	0.02	1.97	6.59	7	47	13	96	0.00	0.0	5.783	0.050	29	8	4	7
PL.1877	PL.1587	A	6 A (CWC)	7.38Y	123.0	0.00	1.97	2.49	2	18	5	96	0.00	0.0	5.839	0.056	12	3	2	3
PL.1878	PL.1877	A	#2 ACSR	7.38Y	123.0	0.00	1.97	0.77	0	6	2	95	0.00	0.0	5.866	0.027	6	2	1	1
PL.1876	PL.1873	A	6 A (CWC)	7.38Y	123.1	0.01	1.93	5.65	4	40	11	96	0.00	0.0	5.723	0.051	40	11	8	8
PL.2552	PL.1871	C	6 A (CWC)	7.40Y	123.3	0.00	1.71	16.96	12	121	33	96	0.00	0.0	5.501	0.003	0	0	0	35
PD.348	PL.2552	C	35H	7.40Y	123.3	0.00	1.71	16.96	48	121	33	96	0.00	0.0	5.501	0.003	0	0	0	35
PL.2553	PD.348	C	6 A (CWC)	7.40Y	123.3	0.03	1.74	16.96	12	121	33	96	0.03	0.0	5.544	0.044	19	5	4	35
PL.1879	PL.2553	C	6 A (CWC)	7.39Y	123.2	0.03	1.77	14.31	10	102	28	96	0.02	0.0	5.586	0.041	3	1	4	31
PL.1880	PL.1879	C	6 A (CWC)	7.39Y	123.2	0.01	1.78	13.88	10	99	27	96	0.01	0.0	5.607	0.022	0	0	0	27
PL.1881	PL.1880	C	6 A (CWC)	7.39Y	123.2	0.04	1.82	13.88	10	99	27	96	0.03	0.0	5.663	0.056	2	1	1	27
PL.1883	PL.1881	C	6 A (CWC)	7.39Y	123.2	0.00	1.82	2.84	2	20	6	96	0.00	0.0	5.694	0.031	0	0	1	13

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1884	PL.1883	C	6 A (CWC)	7.39Y	123.2	0.00	1.82	0.09	0	1	0	100	0.00	0.0	5.784	0.090	1	0	3	3
PL.1885	PL.1883	C	6 A (CWC)	7.39Y	123.2	0.00	1.82	2.72	2	19	5	97	0.00	0.0	5.713	0.018	0	0	0	9
PL.1886	PL.1885	C	#4 ACSR	7.39Y	123.2	0.00	1.83	2.72	2	19	5	97	0.00	0.0	5.737	0.024	19	5	9	9
PL.1882	PL.1881	C	6 A (CWC)	7.39Y	123.2	0.01	1.83	10.71	8	76	21	96	0.00	0.0	5.685	0.021	35	10	5	13
PL.1887	PL.1882	C	#4 ACSR	7.39Y	123.2	0.01	1.83	5.84	4	42	11	97	0.00	0.0	5.714	0.029	0	0	0	8
PL.1888	PL.1887	C	#4 ACSR	7.39Y	123.2	0.00	1.84	5.84	4	42	11	97	0.00	0.0	5.740	0.026	42	11	8	8
PL.1870	PL.1868	C	8 A (CWC)	7.40Y	123.3	0.00	1.68	2.16	2	15	4	97	0.00	0.0	5.452	0.050	15	4	6	6
PL.2280	PL.2110	C	#4 ACSR	7.42Y	123.7	0.00	1.26	8.64	7	62	17	96	0.00	0.0	4.761	0.005	0	0	0	15
PD.212	PL.2280	C	40QA	7.42Y	123.7	0.00	1.26	8.64	22	62	17	96	0.00	0.0	4.761	0.005	0	0	0	15
PL.2281	PD.212	C	#4 ACSR	7.42Y	123.7	0.01	1.27	8.64	7	62	17	96	0.00	0.0	4.784	0.023	25	7	6	15
PL.1803	PL.2281	C	#4 ACSR	7.42Y	123.7	0.02	1.29	5.10	4	37	10	97	0.01	0.0	4.876	0.092	0	0	0	9
PL.2097	PL.1803	C	#4 ACSR	7.42Y	123.7	0.01	1.30	3.58	3	26	7	97	0.00	0.0	4.925	0.048	0	0	0	8
PL.2098	PL.2097	C	#4 ACSR	7.42Y	123.7	0.01	1.31	3.58	3	26	7	97	0.00	0.0	4.984	0.059	0	0	0	8
PL.1841	PL.2098	C	#4 ACSR	7.42Y	123.7	0.00	1.31	1.49	1	11	3	96	0.00	0.0	5.047	0.063	11	3	1	1
PL.1840	PL.2098	C	#4 ACSR	7.42Y	123.7	0.00	1.31	2.09	2	15	4	97	0.00	0.0	5.026	0.043	0	0	0	7
PL.1842	PL.1840	C	#4 ACSR	7.42Y	123.7	0.01	1.32	2.09	2	15	4	97	0.00	0.0	5.082	0.056	0	0	0	7
PL.1590	PL.1842	C	#2 ACSR	7.42Y	123.7	0.00	1.32	2.09	1	15	4	97	0.00	0.0	5.129	0.047	7	2	1	7
PL.1591	PL.1590	C	#2 ACSR	7.42Y	123.7	0.00	1.32	1.04	1	7	2	96	0.00	0.0	5.209	0.080	0	0	0	6
PL.2026	PL.1591	C	#2 ACSR	7.42Y	123.7	0.00	1.33	1.04	1	7	2	96	0.00	0.0	5.331	0.121	0	0	0	6
PL.2027	PL.2026	C	#2 ACSR	7.42Y	123.7	0.00	1.33	1.04	1	7	2	96	0.00	0.0	5.380	0.049	0	0	0	6
PL.1843	PL.2027	C	#2 ACSR	7.42Y	123.7	0.00	1.33	1.04	1	7	2	96	0.00	0.0	5.418	0.038	0	0	0	6
PL.1844	PL.1843	C	#2 ACSR	7.42Y	123.7	0.00	1.33	1.04	1	7	2	96	0.00	0.0	5.444	0.026	0	0	0	6
PL.1845	PL.1844	C	#4 ACSR	7.42Y	123.7	0.00	1.33	0.32	0	2	1	89	0.00	0.0	5.475	0.030	2	1	5	5
PL.1847	PL.1845	C	#4 ACSR	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	5.503	0.028	0	0	0	0
PL.1846	PL.1844	C	#4 ACSR	7.42Y	123.7	0.00	1.33	0.72	1	5	1	98	0.00	0.0	5.477	0.033	5	1	1	1
PL.1848	PL.1846	C	#4 ACSR	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	5.544	0.067	0	0	0	0
PL.1838	PL.2097	C	#2 ACSR	7.42Y	123.7	0.00	1.30	0.00	0	0	0	100	0.00	0.0	4.947	0.023	0	0	0	0
PL.2284	PL.1803	C	#4 ACSR	7.42Y	123.7	0.00	1.29	1.53	1	11	3	96	0.00	0.0	4.881	0.005	0	0	0	1
PD.215	PL.2284	C	40QA	7.42Y	123.7	0.00	1.29	1.53	4	11	3	96	0.00	0.0	4.881	0.005	0	0	0	1
PL.2285	PD.215	C	#4 ACSR	7.42Y	123.7	0.00	1.29	1.53	1	11	3	96	0.00	0.0	4.897	0.016	0	0	0	1
PL.1839	PL.2285	C	#4 ACSR	7.42Y	123.7	0.00	1.30	1.53	1	11	3	96	0.00	0.0	4.927	0.030	11	3	1	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2310	PL.2120	C	#2 ACSR	7.45Y	124.2	0.00	0.83	1.04	1	7	2	96	0.00	0.0	4.169	0.005	0	0	0	1
PD.228	PL.2310	C	40QA	7.45Y	124.2	0.00	0.83	1.04	3	7	2	96	0.00	0.0	4.169	0.005	0	0	0	1
PL.2311	PD.228	C	#1/0 ACSR	7.45Y	124.2	0.00	0.83	1.04	0	7	2	96	0.00	0.0	4.206	0.037	7	2	1	1
PL.2306	PL.2174	C	#4 ACSR	7.47Y	124.4	0.00	0.58	3.05	2	22	6	96	0.00	0.0	3.862	0.005	0	0	0	3
PD.226	PL.2306	C	40QA	7.47Y	124.4	0.00	0.58	3.05	8	22	6	96	0.00	0.0	3.862	0.005	0	0	0	3
PL.2307	PD.226	C	#4 ACSR	7.47Y	124.4	0.00	0.58	3.05	2	22	6	96	0.00	0.0	3.875	0.012	22	6	3	3
PL.2314	PL.2125	A	#2 ACSR	7.47Y	124.5	0.00	0.49	1.90	1	14	4	96	0.00	0.0	3.750	0.005	0	0	0	2
PD.230	PL.2314	A	40QA	7.47Y	124.5	0.00	0.49	1.90	5	14	4	96	0.00	0.0	3.750	0.005	0	0	0	2
PL.2315	PD.230	A	#2 ACSR	7.47Y	124.5	0.00	0.49	1.90	1	14	4	96	0.00	0.0	3.775	0.025	14	4	2	2
PL.1791	PL.2178	ABC	#2 ACSR	7.47Y	124.5	0.00	0.46	0.24	0	5	2	93	0.00	0.0	3.720	0.004	5	2	1	1
PL.1788	PL.2128	ABC	#1/0 ACSR	7.48Y	124.6	0.02	0.42	28.70	12	620	173	96	0.08	0.0	3.675	0.039	0	0	0	124
PL.2566	PL.1788	ABC	#1/0 ACSR	7.47Y	124.6	0.00	0.42	28.70	12	620	173	96	0.01	0.0	3.677	0.003	0	0	0	124
PD.356	PL.2566	ABC	50L	7.47Y	124.6	0.00	0.42	28.70	57	620	173	96	0.00	0.0	3.677	0.003	0	0	0	124
PL.2567	PD.356	ABC	#1/0 ACSR	7.47Y	124.5	0.03	0.45	28.70	12	620	173	96	0.14	0.0	3.741	0.064	0	0	0	124
PL.1789	PL.2567	ABC	#1/0 ACSR	7.47Y	124.5	0.04	0.49	28.70	12	620	173	96	0.18	0.0	3.824	0.083	0	0	0	124
PL.2025	PL.1789	ABC	#1/0 ACSR	7.47Y	124.4	0.06	0.55	28.70	12	620	173	96	0.25	0.0	3.937	0.113	7	2	1	124
PL.1790	PL.2025	ABC	#1/0 ACSR	7.47Y	124.4	0.01	0.56	28.39	12	613	171	96	0.03	0.0	3.951	0.014	0	0	0	123
PL.2304	PL.1790	C	#2 ACSR	7.47Y	124.4	0.00	0.56	0.30	0	2	1	89	0.00	0.0	3.955	0.004	0	0	0	2
PD.225	PL.2304	C	40QA	7.47Y	124.4	0.00	0.56	0.30	1	2	1	89	0.00	0.0	3.955	0.004	0	0	0	2
PL.2305	PD.225	C	#2 ACSR	7.47Y	124.4	0.00	0.56	0.30	0	2	1	89	0.00	0.0	4.046	0.091	2	1	2	2
PL.2168	PL.1790	ABC	#1/0 ACSR	7.47Y	124.4	0.02	0.58	28.29	12	610	170	96	0.08	0.0	3.989	0.038	0	0	0	121
PL.2169	PL.2168	ABC	#1/0 ACSR	7.46Y	124.4	0.04	0.61	28.29	12	610	170	96	0.15	0.0	4.058	0.069	0	0	0	121
PL.2024	PL.2169	ABC	#1/0 ACSR	7.46Y	124.3	0.05	0.67	28.29	12	610	170	96	0.22	0.0	4.162	0.104	0	0	0	121
PL.2023	PL.2024	ABC	#1/0 ACSR	7.46Y	124.3	0.03	0.70	28.29	12	610	170	96	0.13	0.0	4.221	0.060	0	0	0	121
PL.66256	PL.2023	ABC	#1/0 ACSR	7.46Y	124.3	0.05	0.75	28.29	12	610	169	96	0.20	0.0	4.317	0.096	0	0	0	121
PL.66257	PL.66256	ABC	#1/0 ACSR	7.45Y	124.2	0.02	0.77	28.29	12	610	169	96	0.10	0.0	4.365	0.048	0	0	0	121
PL.2021	PL.66257	ABC	#1/0 ACSR	7.45Y	124.2	0.06	0.83	28.29	12	610	169	96	0.23	0.0	4.473	0.109	0	0	0	121
PL.2158	PL.2021	ABC	#1/0 ACSR	7.45Y	124.1	0.04	0.86	28.29	12	609	169	96	0.15	0.0	4.546	0.073	16	4	2	121
PL.2159	PL.2158	ABC	#1/0 ACSR	7.45Y	124.1	0.02	0.89	27.55	12	593	164	96	0.10	0.0	4.597	0.050	10	3	2	119
PL.2296	PL.2159	C	#2 ACSR	7.45Y	124.1	0.00	0.89	2.21	1	16	4	97	0.00	0.0	4.601	0.004	0	0	0	2
PD.221	PL.2296	C	40QA	7.45Y	124.1	0.00	0.89	2.21	6	16	4	97	0.00	0.0	4.601	0.004	0	0	0	2

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2297	PD.221	C	#2 ACSR	7.45Y	124.1	0.00	0.89	2.21	1	16	4	97	0.00	0.0	4.603	0.002	16	4	2	2
PL.2136	PL.2159	ABC	#1/0 ACSR	7.44Y	124.1	0.03	0.92	26.33	11	567	157	96	0.12	0.0	4.667	0.070	24	7	7	115
PL.2524	PL.2136	A	8 A (CWC)	7.44Y	124.1	0.01	0.93	21.64	22	155	43	96	0.01	0.0	4.671	0.005	0	0	0	30
PD.332	PL.2524	A	15T	7.44Y	124.1	0.00	0.93	21.64	0	155	43	96	0.00	0.0	4.671	0.005	0	0	0	30
PL.2525	PD.332	A	8 A (CWC)	7.44Y	124.0	0.11	1.03	21.64	22	155	43	96	0.13	0.1	4.744	0.073	0	0	0	30
PL.1807	PL.2525	A	8 A (CWC)	7.43Y	123.8	0.18	1.21	21.64	22	155	43	96	0.22	0.1	4.868	0.123	0	0	0	30
PL.2134	PL.1807	A	8 A (CWC)	7.42Y	123.7	0.11	1.32	21.64	22	155	43	96	0.13	0.1	4.945	0.077	11	3	2	30
PL.1808	PL.2134	A	#4 ACSR	7.42Y	123.7	0.00	1.32	1.81	1	13	4	96	0.00	0.0	4.963	0.018	13	4	1	1
PL.2160	PL.2134	A	8 A (CWC)	7.42Y	123.6	0.07	1.39	18.35	18	131	36	96	0.07	0.1	5.007	0.062	11	3	2	27
PL.2161	PL.2160	A	8 A (CWC)	7.41Y	123.6	0.05	1.44	16.83	17	120	33	96	0.04	0.0	5.049	0.042	0	0	0	25
PL.2162	PL.2161	A	8 A (CWC)	7.41Y	123.5	0.02	1.46	16.83	17	120	33	96	0.02	0.0	5.071	0.022	3	1	1	25
PL.2163	PL.2162	A	8 A (CWC)	7.41Y	123.4	0.10	1.56	16.44	16	117	32	96	0.09	0.1	5.169	0.098	11	3	3	24
PL.1809	PL.2163	A	8 A (CWC)	7.40Y	123.4	0.03	1.60	10.19	10	73	20	96	0.02	0.0	5.218	0.049	7	2	1	12
PL.2166	PL.1809	A	#4 ACSR	7.40Y	123.4	0.00	1.60	3.57	3	25	7	96	0.00	0.0	5.249	0.030	11	3	1	2
PL.2167	PL.2166	A	#4 ACSR	7.40Y	123.4	0.00	1.60	1.98	2	14	4	96	0.00	0.0	5.273	0.025	14	4	1	1
PL.1811	PL.1809	A	8 A (CWC)	7.40Y	123.4	0.01	1.61	2.25	2	16	4	97	0.00	0.0	5.287	0.069	4	1	1	4
PL.1813	PL.1811	A	#2 ACSR	7.40Y	123.4	0.00	1.61	1.72	1	12	3	97	0.00	0.0	5.338	0.051	12	3	3	3
PL.65779	PL.1811	A	#1/0 ACSR	7.40Y	123.4	0.00	1.61	0.00	0	0	0	100	0.00	0.0	5.358	0.071	0	0	0	0
PL.1812	PL.1809	A	#4 ACSR	7.40Y	123.4	0.00	1.60	3.45	3	25	7	96	0.00	0.0	5.248	0.030	0	0	0	5
PL.1836	PL.1812	A	8 A (CWC)	7.40Y	123.4	0.03	1.64	3.45	3	25	7	96	0.01	0.0	5.398	0.150	0	0	0	5
PL.1814	PL.1836	A	8 A (CWC)	7.40Y	123.3	0.02	1.66	3.45	3	25	7	96	0.00	0.0	5.499	0.101	0	0	0	5
PL.1815	PL.1814	A	8 A (CWC)	7.40Y	123.3	0.01	1.66	1.94	2	14	4	96	0.00	0.0	5.538	0.039	0	0	0	3
PL.1818	PL.1815	A	#4 ACSR	7.40Y	123.3	0.00	1.66	0.97	1	7	2	96	0.00	0.0	5.559	0.021	7	2	1	1
PL.1817	PL.1815	A	#4 ACSR	7.40Y	123.3	0.00	1.67	0.97	1	7	2	96	0.00	0.0	5.587	0.049	7	2	1	2
PL.1819	PL.1817	A	#4 ACSR	7.40Y	123.3	0.00	1.67	0.01	0	0	0	100	0.00	0.0	5.623	0.036	0	0	0	1
PL.1820	PL.1819	A	#4 ACSR	7.40Y	123.3	0.00	1.67	0.01	0	0	0	100	0.00	0.0	5.675	0.052	0	0	1	1
PL.1816	PL.1814	A	#4 ACSR	7.40Y	123.3	0.00	1.66	1.50	1	11	3	96	0.00	0.0	5.535	0.036	11	3	2	2
PL.2135	PL.2163	A	#4 ACSR	7.41Y	123.4	0.00	1.57	4.66	4	33	9	96	0.00	0.0	5.189	0.020	20	5	4	9
PL.1810	PL.2135	A	#1/0 ACSR	7.41Y	123.4	0.00	1.57	1.49	1	11	3	96	0.00	0.0	5.231	0.042	11	3	1	1
PL.2164	PL.2135	A	#4 ACSR	7.41Y	123.4	0.00	1.57	0.41	0	3	1	95	0.00	0.0	5.235	0.045	1	0	3	4
PL.2165	PL.2164	A	#4 ACSR	7.41Y	123.4	0.00	1.57	0.21	0	2	0	100	0.00	0.0	5.285	0.051	2	0	1	1

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1806	PL.2136	ABC	#1/0 ACSR	7.44Y	124.1	0.02	0.94	16.60	7	357	99	96	0.05	0.0	4.740	0.073	13	4	3	73
PL.2300	PL.1806	BC	#1/0 ACSR	7.44Y	124.0	0.02	0.96	19.80	9	284	79	96	0.04	0.0	4.786	0.047	0	0	0	56
PD.223	PL.2300	BC	25T	7.44Y	124.0	0.00	0.96	19.80	0	284	79	96	0.00	0.0	4.786	0.047	0	0	0	56
PL.2301	PD.223	BC	#1/0 ACSR	7.44Y	124.0	0.01	0.97	19.80	9	284	79	96	0.02	0.0	4.821	0.034	26	7	4	56
PL.2150	PL.2301	BC	#1/0 ACSR	7.44Y	124.0	0.03	1.00	17.96	8	258	71	96	0.05	0.0	4.900	0.079	17	5	7	52
PL.2137	PL.2150	C	#1/0 ACSR	7.44Y	124.0	0.00	1.01	8.67	4	62	17	96	0.00	0.0	4.919	0.019	0	0	1	11
PL.1826	PL.2137	C	#1/0 ACSR	7.44Y	124.0	0.01	1.02	8.67	4	62	17	96	0.00	0.0	4.968	0.049	22	6	3	10
PL.2143	PL.1826	C	#1/0 ACSR	7.44Y	124.0	0.01	1.02	5.61	2	40	11	96	0.00	0.0	5.054	0.086	21	6	3	7
PL.2144	PL.2143	C	#1/0 ACSR	7.44Y	124.0	0.00	1.03	2.71	1	19	5	97	0.00	0.0	5.090	0.036	0	0	0	4
PL.1592	PL.2144	C	#1/0 ACSR	7.44Y	124.0	0.00	1.03	2.71	1	19	5	97	0.00	0.0	5.133	0.044	7	2	2	4
PL.1834	PL.1592	C	#1/0 ACSR	7.44Y	124.0	0.00	1.03	1.67	1	12	3	97	0.00	0.0	5.151	0.017	0	0	0	2
PL.1835	PL.1834	C	#1/0 ACSR	7.44Y	124.0	0.00	1.03	1.67	1	12	3	97	0.00	0.0	5.192	0.041	12	3	2	2
PL.1825	PL.2150	B	#1/0 ACSR	7.44Y	124.0	0.02	1.03	24.84	11	178	49	96	0.03	0.0	4.940	0.040	15	4	2	34
PL.2148	PL.1825	B	#1/0 ACSR	7.44Y	124.0	0.02	1.04	22.76	10	163	45	96	0.02	0.0	4.975	0.036	33	9	7	32
PL.2149	PL.2148	B	#1/0 ACSR	7.44Y	123.9	0.02	1.06	18.11	8	130	36	96	0.02	0.0	5.021	0.046	9	2	1	25
PL.2145	PL.2149	B	#1/0 ACSR	7.44Y	123.9	0.01	1.08	16.91	7	121	33	96	0.01	0.0	5.058	0.036	15	4	2	24
PL.1827	PL.2145	B	#1/0 ACSR	7.43Y	123.9	0.01	1.09	5.99	3	43	12	96	0.00	0.0	5.160	0.102	18	5	4	11
PL.1830	PL.1827	B	#1/0 ACSR	7.43Y	123.9	0.00	1.09	3.05	1	22	6	96	0.00	0.0	5.211	0.051	10	3	2	6
PL.1832	PL.1830	B	#1/0 ACSR	7.43Y	123.9	0.00	1.09	1.70	1	12	3	97	0.00	0.0	5.250	0.040	7	2	1	3
PL.1833	PL.1832	B	8 A (CWC)	7.43Y	123.9	0.00	1.09	0.74	1	5	1	98	0.00	0.0	5.296	0.046	5	1	2	2
PL.21313	PL.1830	B	#1/0 ACSR	7.43Y	123.9	0.00	1.09	0.01	0	0	0	100	0.00	0.0	5.232	0.022	0	0	0	1
PL.21314	PL.21313	B	#1/0 ACSR	7.43Y	123.9	0.00	1.09	0.01	0	0	0	100	0.00	0.0	5.302	0.070	0	0	1	1
PL.1831	PL.1827	B	#4 ACSR	7.43Y	123.9	0.00	1.09	0.48	0	3	1	95	0.00	0.0	5.230	0.071	3	1	1	1
PL.1829	PL.2145	B	#4 ACSR	7.44Y	123.9	0.00	1.08	5.33	4	38	11	96	0.00	0.0	5.084	0.027	38	11	6	6
PL.2146	PL.2145	B	#2 ACSR	7.44Y	123.9	0.00	1.08	3.06	2	22	6	96	0.00	0.0	5.088	0.030	20	5	3	4
PL.2147	PL.2146	B	#2 ACSR	7.44Y	123.9	0.00	1.08	0.33	0	2	1	89	0.00	0.0	5.117	0.029	2	1	1	1
PL.1828	PL.2145	B	#2 ACSR	7.44Y	123.9	0.00	1.08	0.51	0	4	1	97	0.00	0.0	5.074	0.016	4	1	1	1
PL.28010	PL.2145	B	#1/0 ACSR	7.44Y	123.9	0.00	1.08	0.00	0	0	0	100	0.00	0.0	5.087	0.029	0	0	0	0
PL.2151	PL.1806	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	1.54	1	11	3	96	0.00	0.0	4.763	0.024	4	1	3	4
PL.2152	PL.2151	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	1.01	0	7	2	96	0.00	0.0	4.799	0.036	7	2	1	1
PL.2298	PL.1806	C	8 A (CWC)	7.44Y	124.1	0.00	0.94	6.82	7	49	14	96	0.00	0.0	4.744	0.005	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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.222	PL.2298	C	40QA	7.44Y	124.1	0.00	0.94	6.82	17	49	14	96	0.00	0.0	4.744	0.005	0	0	0	10
PL.2299	PD.222	C	8 A (CWC)	7.44Y	124.0	0.02	0.96	6.82	7	49	14	96	0.01	0.0	4.796	0.052	24	7	3	10
PL.1821	PL.2299	C	8 A (CWC)	7.44Y	124.0	0.02	0.98	3.45	3	25	7	96	0.00	0.0	4.878	0.082	5	1	1	7
PL.1822	PL.1821	C	8 A (CWC)	7.44Y	124.0	0.01	0.99	2.76	3	20	5	97	0.00	0.0	4.924	0.046	3	1	1	6
PL.1823	PL.1822	C	8 A (CWC)	7.44Y	124.0	0.01	1.00	2.30	2	17	5	96	0.00	0.0	5.023	0.100	8	2	2	5
PL.2153	PL.1823	C	8 A (CWC)	7.44Y	124.0	0.00	1.00	0.66	1	5	1	98	0.00	0.0	5.067	0.043	2	1	1	2
PL.2154	PL.2153	C	8 A (CWC)	7.44Y	124.0	0.00	1.00	0.39	0	3	1	95	0.00	0.0	5.118	0.051	0	0	0	1
PL.1837	PL.2154	C	6 A (CWC)	7.44Y	124.0	0.00	1.00	0.39	0	3	1	95	0.00	0.0	5.169	0.051	3	1	1	1
PL.1824	PL.1823	C	8 A (CWC)	7.44Y	124.0	0.00	1.00	0.50	0	4	1	97	0.00	0.0	5.071	0.048	4	1	1	1
PL.2302	PL.2136	A	#4 ACSR	7.44Y	124.1	0.00	0.92	4.25	3	30	8	97	0.00	0.0	4.671	0.005	0	0	0	5
PD.224	PL.2302	A	40QA	7.44Y	124.1	0.00	0.92	4.25	11	30	8	97	0.00	0.0	4.671	0.005	0	0	0	5
PL.2303	PD.224	A	#4 ACSR	7.44Y	124.1	0.01	0.93	4.25	3	30	8	97	0.00	0.0	4.705	0.034	0	0	0	5
PL.2155	PL.2303	A	#4 ACSR	7.44Y	124.1	0.01	0.93	4.25	3	30	8	97	0.00	0.0	4.757	0.052	18	5	2	5
PL.2156	PL.2155	A	#4 ACSR	7.44Y	124.1	0.00	0.94	1.77	1	13	4	96	0.00	0.0	4.814	0.057	4	1	2	3
PL.2157	PL.2156	A	#4 ACSR	7.44Y	124.1	0.00	0.94	1.29	1	9	3	95	0.00	0.0	4.833	0.018	9	3	1	1
PL.1776	PL.2182	C	#2 ACSR	7.12Y	118.6	0.01	6.41	11.07	6	76	21	96	0.01	0.0	3.464	0.049	32	9	5	16
PL.2522	PL.1776	C	8 A (CWC)	7.12Y	118.6	0.00	6.42	6.46	6	44	12	96	0.00	0.0	3.469	0.005	0	0	0	11
PD.331	PL.2522	C	40QA	7.12Y	118.6	0.00	6.42	6.46	16	44	12	96	0.00	0.0	3.469	0.005	0	0	0	11
PL.2523	PD.331	C	8 A (CWC)	7.11Y	118.6	0.02	6.44	6.46	6	44	12	96	0.01	0.0	3.533	0.064	13	4	2	11
PL.1777	PL.2523	C	8 A (CWC)	7.11Y	118.5	0.03	6.47	4.61	5	32	9	96	0.01	0.0	3.640	0.107	0	0	0	9
PL.2183	PL.1777	C	8 A (CWC)	7.11Y	118.5	0.02	6.49	4.61	5	32	9	96	0.00	0.0	3.710	0.070	5	1	2	9
PL.2184	PL.2183	C	8 A (CWC)	7.11Y	118.5	0.02	6.52	3.92	4	27	7	97	0.01	0.0	3.811	0.100	4	1	1	7
PL.1779	PL.2184	C	8 A (CWC)	7.11Y	118.5	0.02	6.54	3.34	3	23	6	97	0.00	0.0	3.911	0.100	0	0	0	6
PL.1781	PL.1779	C	6 A (CWC)	7.11Y	118.4	0.01	6.55	3.34	2	23	6	97	0.00	0.0	3.990	0.080	0	0	0	6
PL.1783	PL.1781	C	6 A (CWC)	7.11Y	118.4	0.01	6.56	3.34	2	23	6	97	0.00	0.0	4.069	0.079	0	0	1	6
PL.1784	PL.1783	C	8 A (CWC)	7.11Y	118.4	0.00	6.56	0.43	0	3	1	95	0.00	0.0	4.124	0.055	2	1	1	2
PL.1787	PL.1784	C	#2 ACSR	7.11Y	118.4	0.00	6.56	0.16	0	1	0	100	0.00	0.0	4.156	0.032	0	0	0	1
PL.1981	PL.1787	C	#2 ACSR	7.11Y	118.4	0.00	6.56	0.16	0	1	0	100	0.00	0.0	4.250	0.094	1	0	1	1
PL.1785	PL.1783	C	#4 ACSR	7.11Y	118.4	0.00	6.57	2.87	2	20	5	97	0.00	0.0	4.104	0.035	11	3	2	3
PL.1786	PL.1785	C	#4 ACSR	7.11Y	118.4	0.00	6.57	1.21	1	8	2	97	0.00	0.0	4.145	0.041	8	2	1	1
PL.1602	PL.2132	ABC	336 MCM AC	7.12Y	118.7	0.05	6.26	74.08	14	1522	438	96	0.45	0.0	3.346	0.098	0	0	0	375

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.4468	PL.1602	ABC	336 MCM AC	7.12Y	118.7	0.00	6.27	74.08	14	1522	437	96	0.02	0.0	3.350	0.003	0	0	0	375
PD.901	PL.4468	ABC	100L	7.12Y	118.7	0.00	6.27	74.08	74	1522	437	96	0.00	0.0	3.350	0.003	0	0	0	375
PL.4469	PD.901	ABC	336 MCM AC	7.12Y	118.7	0.01	6.28	74.08	14	1522	437	96	0.12	0.0	3.376	0.026	0	0	0	375
PL.2127	PL.4469	ABC	336 MCM AC	7.12Y	118.7	0.03	6.31	73.90	14	1518	436	96	0.25	0.0	3.429	0.053	0	0	0	374
PL.2126	PL.2127	ABC	336 MCM AC	7.12Y	118.6	0.08	6.39	73.28	14	1505	432	96	0.69	0.0	3.582	0.154	0	0	0	372
PL.2124	PL.2126	ABC	336 MCM AC	7.11Y	118.5	0.08	6.48	72.39	14	1486	425	96	0.67	0.0	3.734	0.152	0	0	0	369
PL.2123	PL.2124	ABC	336 MCM AC	7.11Y	118.5	0.01	6.49	72.29	14	1483	423	96	0.12	0.0	3.762	0.027	0	0	0	368
PL.2121	PL.2123	ABC	336 MCM AC	7.11Y	118.4	0.08	6.57	71.65	14	1470	419	96	0.63	0.0	3.908	0.146	0	0	0	365
PL.2013	PL.2121	ABC	336 MCM AC	7.10Y	118.4	0.06	6.63	71.65	14	1469	417	96	0.50	0.0	4.024	0.116	0	0	0	365
PL.2352	PL.2013	C	#4 ACSR	7.10Y	118.4	0.00	6.63	1.21	1	8	2	97	0.00	0.0	4.028	0.005	0	0	0	5
PD.249	PL.2352	C	40QA	7.10Y	118.4	0.00	6.63	1.21	3	8	2	97	0.00	0.0	4.028	0.005	0	0	0	5
PL.2353	PD.249	C	#4 ACSR	7.10Y	118.4	0.00	6.63	1.21	1	8	2	97	0.00	0.0	4.048	0.020	8	2	5	5
PL.2116	PL.2013	ABC	336 MCM AC	7.10Y	118.3	0.02	6.65	71.25	14	1461	414	96	0.16	0.0	4.061	0.038	0	0	0	360
PL.2354	PL.2116	A	#2 ACSR	7.10Y	118.3	0.00	6.65	5.96	3	41	11	97	0.00	0.0	4.066	0.005	0	0	0	6
PD.250	PL.2354	A	40QA	7.10Y	118.3	0.00	6.65	5.96	15	41	11	97	0.00	0.0	4.066	0.005	0	0	0	6
PL.2355	PD.250	A	#2 ACSR	7.10Y	118.3	0.00	6.66	5.96	3	41	11	97	0.00	0.0	4.085	0.019	6	2	2	6
PL.1607	PL.2355	A	8 A (CWC)	7.10Y	118.3	0.01	6.67	5.13	5	35	10	96	0.00	0.0	4.137	0.052	21	6	2	4
PL.1609	PL.1607	A	#4 ACSR	7.10Y	118.3	0.00	6.67	2.13	2	15	4	97	0.00	0.0	4.196	0.059	15	4	2	2
PL.2258	PL.2116	ABC	336 MCM AC	7.10Y	118.3	0.03	6.68	69.26	13	1420	402	96	0.21	0.0	4.112	0.051	0	0	0	354
REG54	PL.2258	ABC	114.3 KVA	7.52Y	125.4	-7.05	-0.37	69.26	46	1419	402	96	percent Boost= 5.62		Tap= 9.0					354
PL.2259	REG54	ABC	336 MCM AC	7.52Y	125.3	0.05	-0.33	65.37	13	1419	402	96	0.34	0.0	4.207	0.095	6	2	1	354
PL.2256	PL.2259	ABC	336 MCM AC	7.52Y	125.3	0.02	-0.31	51.03	10	1107	315	96	0.12	0.0	4.262	0.055	2	0	1	290
PL.2257	PL.2256	ABC	336 MCM AC	7.52Y	125.3	0.02	-0.29	50.95	10	1106	314	96	0.11	0.0	4.311	0.049	9	3	1	289
PL.2117	PL.2257	ABC	336 MCM AC	7.51Y	125.2	0.07	-0.22	50.46	10	1095	311	96	0.38	0.0	4.492	0.180	6	2	1	287
PL.2114	PL.2117	ABC	336 MCM AC	7.51Y	125.2	0.02	-0.20	49.83	10	1081	306	96	0.11	0.0	4.544	0.052	0	0	0	283
PL.2111	PL.2114	ABC	336 MCM AC	7.51Y	125.2	0.04	-0.16	49.52	10	1074	304	96	0.23	0.0	4.654	0.110	0	0	0	280
PL.2498	PL.2111	C	#2 ACSR	7.51Y	125.2	0.00	-0.16	0.98	1	7	2	96	0.00	0.0	4.659	0.005	0	0	0	3
PD.320	PL.2498	C	40QA	7.51Y	125.2	0.00	-0.16	0.98	2	7	2	96	0.00	0.0	4.659	0.005	0	0	0	3
PL.2499	PD.320	C	#2 ACSR	7.51Y	125.2	0.00	-0.16	0.98	1	7	2	96	0.00	0.0	4.678	0.020	0	0	0	3
PL.2108	PL.2499	C	#2 ACSR	7.51Y	125.2	0.00	-0.16	0.15	0	1	0	100	0.00	0.0	4.704	0.026	1	0	1	1
PL.1651	PL.2499	C	#2 ACSR	7.51Y	125.2	0.00	-0.16	0.82	0	6	2	95	0.00	0.0	4.705	0.027	6	2	2	2

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2456	PL.2111	A	#2 ACSR	7.51Y	125.2	0.00	-0.16	0.65	0	5	1	98	0.00	0.0	4.659	0.005	0	0	0	1
PD.298	PL.2456	A	40QA	7.51Y	125.2	0.00	-0.16	0.65	2	5	1	98	0.00	0.0	4.659	0.005	0	0	0	1
PL.2457	PD.298	A	#2 ACSR	7.51Y	125.2	0.00	-0.16	0.65	0	5	1	98	0.00	0.0	4.678	0.020	5	1	1	1
PL.2105	PL.2111	ABC	336 MCM AC	7.51Y	125.1	0.07	-0.09	48.98	9	1062	300	96	0.37	0.0	4.835	0.181	0	0	0	276
PL.2254	PL.2105	ABC	336 MCM AC	7.50Y	125.1	0.04	-0.05	48.62	9	1054	297	96	0.23	0.0	4.948	0.113	0	0	0	269
PL.2255	PL.2254	ABC	336 MCM AC	7.50Y	125.0	0.02	-0.03	48.62	9	1054	297	96	0.11	0.0	5.005	0.057	0	0	0	269
PL.2106	PL.2255	ABC	336 MCM AC	7.50Y	125.0	0.03	-0.00	48.13	9	1043	293	96	0.17	0.0	5.089	0.085	1	0	1	266
PL.2466	PL.2106	A	#4 ACSR	7.50Y	125.0	0.00	-0.00	1.13	1	8	2	97	0.00	0.0	5.094	0.005	0	0	0	3
PD.304	PL.2466	A	40QA	7.50Y	125.0	0.00	-0.00	1.13	3	8	2	97	0.00	0.0	5.094	0.005	0	0	0	3
PL.2467	PD.304	A	#4 ACSR	7.50Y	125.0	0.00	-0.00	1.13	1	8	2	97	0.00	0.0	5.117	0.023	8	2	3	3
PL.2107	PL.2106	ABC	336 MCM AC	7.50Y	125.0	0.04	0.03	47.71	9	1033	290	96	0.19	0.0	5.189	0.099	0	0	0	262
PL.2104	PL.2107	ABC	336 MCM AC	7.50Y	124.9	0.02	0.05	38.12	7	825	232	96	0.08	0.0	5.250	0.061	0	0	0	205
PL.2414	PL.2104	A	#4 ACSR	7.50Y	124.9	0.00	0.05	2.91	2	21	6	96	0.00	0.0	5.255	0.005	0	0	0	2
PD.277	PL.2414	A	40QA	7.50Y	124.9	0.00	0.05	2.91	7	21	6	96	0.00	0.0	5.255	0.005	0	0	0	2
PL.2415	PD.277	A	#4 ACSR	7.50Y	124.9	0.00	0.05	2.91	2	21	6	96	0.00	0.0	5.268	0.013	21	6	2	2
PL.2103	PL.2104	ABC	336 MCM AC	7.50Y	124.9	0.02	0.07	36.00	7	779	220	96	0.07	0.0	5.314	0.064	0	0	0	200
PL.2502	PL.2103	C	#4 ACSR	7.50Y	124.9	0.00	0.07	1.16	1	8	2	97	0.00	0.0	5.318	0.005	0	0	0	2
PD.322	PL.2502	C	40QA	7.50Y	124.9	0.00	0.07	1.16	3	8	2	97	0.00	0.0	5.318	0.005	0	0	0	2
PL.2503	PD.322	C	#4 ACSR	7.50Y	124.9	0.00	0.07	1.16	1	8	2	97	0.00	0.0	5.338	0.020	8	2	2	2
PL.2102	PL.2103	ABC	336 MCM AC	7.50Y	124.9	0.01	0.08	35.16	7	761	214	96	0.06	0.0	5.369	0.056	2	1	1	196
PL.2504	PL.2102	C	#4 ACSR	7.50Y	124.9	0.00	0.08	0.66	1	5	1	98	0.00	0.0	5.374	0.004	0	0	0	1
PD.323	PL.2504	C	40QA	7.50Y	124.9	0.00	0.08	0.66	2	5	1	98	0.00	0.0	5.374	0.004	0	0	0	1
PL.2505	PD.323	C	#4 ACSR	7.50Y	124.9	0.00	0.08	0.66	1	5	1	98	0.00	0.0	5.377	0.004	5	1	1	1
PL.2267	PL.2102	ABC	336 MCM AC	7.49Y	124.9	0.02	0.10	34.86	7	754	212	96	0.06	0.0	5.433	0.064	27	10	6	194
PL.2268	PL.2267	ABC	336 MCM AC	7.49Y	124.9	0.01	0.11	33.57	6	727	202	96	0.03	0.0	5.467	0.033	11	3	3	188
PL.2225	PL.2268	ABC	336 MCM AC	7.49Y	124.9	0.01	0.11	33.05	6	716	199	96	0.02	0.0	5.491	0.024	3	1	2	185
PL.2226	PL.2225	ABC	336 MCM AC	7.49Y	124.9	0.02	0.13	32.90	6	712	198	96	0.08	0.0	5.573	0.083	7	2	3	183
PL.2420	PL.2226	C	#4 ACSR	7.49Y	124.9	0.00	0.14	14.68	11	106	29	96	0.00	0.0	5.578	0.004	0	0	0	24
PD.280	PL.2420	C	40QA	7.49Y	124.9	0.00	0.14	14.68	37	106	29	96	0.00	0.0	5.578	0.004	0	0	0	24
PL.2421	PD.280	C	#4 ACSR	7.49Y	124.8	0.04	0.18	14.68	11	106	29	96	0.03	0.0	5.641	0.064	12	3	2	24
PL.1688	PL.2421	C	8 A (CWC)	7.49Y	124.8	0.05	0.22	13.05	13	94	26	96	0.03	0.0	5.704	0.062	28	8	9	22

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1689	PL.1688	C	8 A (CWC)	7.49Y	124.8	0.03	0.25	9.15	9	66	18	96	0.01	0.0	5.754	0.050	16	4	3	13
PL.1690	PL.1689	C	8 A (CWC)	7.48Y	124.7	0.02	0.27	6.01	6	43	12	96	0.01	0.0	5.842	0.088	26	7	5	9
PL.1692	PL.1690	C	8 A (CWC)	7.48Y	124.7	0.01	0.28	2.32	2	17	5	96	0.00	0.0	5.923	0.080	4	1	1	3
PL.1693	PL.1692	C	#2 ACSR	7.48Y	124.7	0.00	0.29	0.87	0	6	2	95	0.00	0.0	5.997	0.075	6	2	1	1
PL.1694	PL.1692	C	#4 ACSR	7.48Y	124.7	0.00	0.28	0.87	1	6	2	95	0.00	0.0	5.928	0.006	6	2	1	1
PL.65819	PL.1690	C	#1/0 ACSR	7.48Y	124.7	0.00	0.27	0.12	0	1	0	100	0.00	0.0	5.861	0.019	1	0	1	1
PL.1691	PL.1689	C	#4 ACSR	7.49Y	124.8	0.00	0.25	0.89	1	6	2	95	0.00	0.0	5.774	0.020	6	2	1	1
PL.2508	PL.2226	ABC	336 MCM AC	7.49Y	124.9	0.00	0.13	25.31	5	548	153	96	0.00	0.0	5.578	0.004	0	0	0	141
PL.2509	PL.2508	ABC	336 MCM AC	7.49Y	124.9	0.01	0.14	25.31	5	548	153	96	0.02	0.0	5.609	0.031	21	6	3	141
PL.2229	PL.2509	ABC	336 MCM AC	7.49Y	124.9	0.01	0.15	24.32	5	527	147	96	0.02	0.0	5.655	0.046	6	2	2	138
PL.2418	PL.2229	A	#4 ACSR	7.49Y	124.9	0.00	0.15	1.15	1	8	2	97	0.00	0.0	5.659	0.005	0	0	0	5
PD.279	PL.2418	A	40QA	7.49Y	124.9	0.00	0.15	1.15	3	8	2	97	0.00	0.0	5.659	0.005	0	0	0	5
PL.2419	PD.279	A	#4 ACSR	7.49Y	124.9	0.00	0.15	1.15	1	8	2	97	0.00	0.0	5.665	0.006	8	2	5	5
PL.2232	PL.2229	ABC	336 MCM AC	7.49Y	124.8	0.01	0.16	23.68	5	513	143	96	0.02	0.0	5.700	0.045	1	0	2	131
PL.2233	PL.2232	ABC	336 MCM AC	7.49Y	124.8	0.02	0.18	23.62	5	511	142	96	0.06	0.0	5.824	0.124	0	0	0	129
PL.2014	PL.2233	ABC	336 MCM AC	7.49Y	124.8	0.03	0.21	23.62	5	511	142	96	0.08	0.0	5.988	0.164	0	0	0	129
PL.2422	PL.2014	A	#4 ACSR	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	5.993	0.005	0	0	0	0
PD.281	PL.2422	A	40QA	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	5.993	0.005	0	0	0	0
PL.2423	PD.281	A	#1/0 ACSR	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	6.034	0.041	0	0	0	0
PL.2089	PL.2014	ABC	336 MCM AC	7.49Y	124.8	0.02	0.23	23.62	5	511	142	96	0.06	0.0	6.122	0.134	0	0	0	129
PL.2424	PL.2089	A	#4 ACSR	7.49Y	124.8	0.00	0.23	1.14	1	8	2	97	0.00	0.0	6.127	0.005	0	0	0	3
PD.282	PL.2424	A	40QA	7.49Y	124.8	0.00	0.23	1.14	3	8	2	97	0.00	0.0	6.127	0.005	0	0	0	3
PL.2425	PD.282	A	#4 ACSR	7.49Y	124.8	0.00	0.23	1.14	1	8	2	97	0.00	0.0	6.153	0.026	0	0	1	3
PL.1699	PL.2425	A	#4 ACSR	7.49Y	124.8	0.01	0.24	1.12	1	8	2	97	0.00	0.0	6.313	0.161	0	0	0	2
PL.1701	PL.1699	A	#4 ACSR	7.49Y	124.8	0.01	0.25	1.12	1	8	2	97	0.00	0.0	6.417	0.103	0	0	0	2
PL.1702	PL.1701	A	#4 ACSR	7.49Y	124.8	0.00	0.25	1.12	1	8	2	97	0.00	0.0	6.478	0.061	0	0	0	2
PL.1703	PL.1702	A	#4 ACSR	7.49Y	124.8	0.00	0.25	0.01	0	0	0	100	0.00	0.0	6.528	0.050	0	0	0	1
PL.1705	PL.1703	A	#2 ACSR	7.49Y	124.8	0.00	0.25	0.01	0	0	0	100	0.00	0.0	6.547	0.019	0	0	0	1
PL.1706	PL.1705	A	#4 ACSR	7.49Y	124.8	0.00	0.25	0.01	0	0	0	100	0.00	0.0	6.600	0.053	0	0	1	1
PL.1704	PL.1702	A	#4 ACSR	7.49Y	124.8	0.00	0.25	1.11	1	8	2	97	0.00	0.0	6.538	0.060	8	2	1	1
PL.2086	PL.2089	ABC	336 MCM AC	7.49Y	124.8	0.01	0.25	23.24	4	503	140	96	0.04	0.0	6.207	0.085	0	0	0	126

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2234	PL.2086	ABC	336 MCM AC	7.49Y	124.8	0.00	0.25	22.27	4	482	134	96	0.01	0.0	6.234	0.027	0	0	0	122
PL.2235	PL.2234	ABC	336 MCM AC	7.48Y	124.7	0.01	0.26	22.27	4	482	134	96	0.02	0.0	6.281	0.046	6	2	2	122
PL.65772	PL.2235	ABC	336 MCM AC	7.48Y	124.7	0.01	0.26	22.00	4	476	132	96	0.01	0.0	6.316	0.035	0	0	0	120
PL.65773	PL.65772	ABC	336 MCM AC	7.48Y	124.7	0.00	0.27	22.00	4	476	132	96	0.01	0.0	6.332	0.016	8	2	1	120
PL.2238	PL.65773	ABC	336 MCM AC	7.48Y	124.7	0.01	0.28	21.64	4	468	130	96	0.02	0.0	6.394	0.062	4	1	3	119
PL.2236	PL.2238	ABC	336 MCM AC	7.48Y	124.7	0.02	0.29	21.44	4	464	129	96	0.04	0.0	6.504	0.110	0	0	0	116
PL.2239	PL.2236	ABC	336 MCM AC	7.48Y	124.7	0.01	0.30	21.27	4	460	128	96	0.02	0.0	6.560	0.056	16	4	3	114
PL.2240	PL.2239	ABC	336 MCM AC	7.48Y	124.7	0.01	0.31	20.53	4	444	123	96	0.01	0.0	6.601	0.041	9	3	5	111
PL.2241	PL.2240	ABC	336 MCM AC	7.48Y	124.7	0.02	0.32	20.10	4	435	121	96	0.04	0.0	6.706	0.105	3	1	1	106
PL.2074	PL.2241	ABC	336 MCM AC	7.48Y	124.7	0.00	0.33	19.01	4	411	114	96	0.01	0.0	6.741	0.034	0	0	0	102
PL.2564	PL.2074	ABC	336 MCM AC	7.48Y	124.7	0.00	0.33	19.01	4	411	114	96	0.01	0.0	6.770	0.029	0	0	0	102
PD.355	PL.2564	ABC	50L	7.48Y	124.7	0.00	0.33	19.01	38	411	114	96	0.00	0.0	6.770	0.029	0	0	0	102
PL.2565	PD.355	ABC	336 MCM AC	7.48Y	124.7	0.00	0.34	19.01	4	411	114	96	0.01	0.0	6.800	0.030	0	0	0	102
PL.2512	PL.2565	C	#4 ACSR	7.48Y	124.7	0.00	0.34	11.18	9	81	22	97	0.00	0.0	6.805	0.004	0	0	0	17
PD.326	PL.2512	C	25T	7.48Y	124.7	0.00	0.34	11.18	0	81	22	97	0.00	0.0	6.805	0.004	0	0	0	17
PL.2513	PD.326	C	#4 ACSR	7.48Y	124.6	0.02	0.36	11.18	9	81	22	97	0.01	0.0	6.849	0.044	20	5	3	17
PL.1710	PL.2513	C	#4 ACSR	7.48Y	124.6	0.06	0.42	8.43	6	61	17	96	0.03	0.0	7.001	0.152	0	0	0	14
PL.1715	PL.1710	C	#4 ACSR	7.47Y	124.5	0.06	0.47	8.43	6	61	17	96	0.02	0.0	7.159	0.158	7	2	2	14
PL.1718	PL.1715	C	8 A (CWC)	7.47Y	124.5	0.05	0.52	7.48	7	54	15	96	0.02	0.0	7.259	0.100	8	2	3	12
PL.1721	PL.1718	C	#4 ACSR	7.47Y	124.5	0.02	0.54	6.38	5	46	13	96	0.01	0.0	7.324	0.065	0	0	0	9
PL.1720	PL.1721	C	#4 ACSR	7.47Y	124.4	0.02	0.55	6.38	5	46	13	96	0.00	0.0	7.388	0.063	14	4	3	9
PL.1723	PL.1720	C	#4 ACSR	7.47Y	124.4	0.01	0.56	4.49	3	32	9	96	0.00	0.0	7.422	0.034	6	2	1	6
PL.1724	PL.1723	C	#4 ACSR	7.47Y	124.4	0.01	0.56	3.71	3	27	7	97	0.00	0.0	7.455	0.033	0	0	0	5
PL.1725	PL.1724	C	#4 ACSR	7.47Y	124.4	0.00	0.57	3.71	3	27	7	97	0.00	0.0	7.476	0.022	0	0	0	5
PL.2514	PL.1725	C	#4 ACSR	7.47Y	124.4	0.00	0.57	2.29	2	16	5	95	0.00	0.0	7.481	0.005	0	0	0	3
PD.327	PL.2514	C	15T	7.47Y	124.4	0.00	0.57	2.29	0	16	5	95	0.00	0.0	7.481	0.005	0	0	0	3
PL.2515	PD.327	C	#4 ACSR	7.47Y	124.4	0.01	0.58	2.29	2	16	5	95	0.00	0.0	7.556	0.075	0	0	0	3
PL.1727	PL.2515	C	#4 ACSR	7.47Y	124.4	0.00	0.58	0.52	0	4	1	97	0.00	0.0	7.573	0.017	4	1	1	1
PL.1728	PL.2515	C	#4 ACSR	7.46Y	124.4	0.01	0.58	1.77	1	13	4	96	0.00	0.0	7.672	0.116	0	0	0	2
PL.1730	PL.1728	C	#4 ACSR	7.46Y	124.4	0.00	0.58	0.00	0	0	0	100	0.00	0.0	7.706	0.034	0	0	0	0
PL.1731	PL.1728	C	#4 ACSR	7.46Y	124.4	0.01	0.59	1.77	1	13	4	96	0.00	0.0	7.795	0.123	0	0	0	2

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1732	PL.1731	C	#4 ACSR	7.46Y	124.4	0.01	0.61	1.77	1	13	4	96	0.00	0.0	7.935	0.140	0	0	0	2
PL.1734	PL.1732	C	#4 ACSR	7.46Y	124.4	0.00	0.61	1.33	1	10	3	96	0.00	0.0	7.989	0.054	10	3	1	1
PL.1736	PL.1732	C	#2 ACSR	7.46Y	124.4	0.00	0.61	0.44	0	3	1	95	0.00	0.0	8.038	0.103	0	0	0	1
PL.1737	PL.1736	C	#2 ACSR	7.46Y	124.4	0.00	0.61	0.44	0	3	1	95	0.00	0.0	8.181	0.143	0	0	0	1
PL.1738	PL.1737	C	#1/0 ACSR	7.46Y	124.4	0.00	0.61	0.44	0	3	1	95	0.00	0.0	8.267	0.086	3	1	1	1
PL.1726	PL.1725	C	#4 ACSR	7.47Y	124.4	0.00	0.57	1.42	1	10	3	96	0.00	0.0	7.492	0.016	10	3	2	2
PL.2073	PL.2565	ABC	336 MCM AC	7.48Y	124.7	0.01	0.34	15.28	3	330	92	96	0.01	0.0	6.863	0.063	0	0	0	85
PL.2072	PL.2073	ABC	336 MCM AC	7.48Y	124.6	0.02	0.36	14.68	3	318	88	96	0.03	0.0	7.018	0.155	0	0	0	82
PL.65775	PL.2072	ABC	336 MCM AC	7.48Y	124.6	0.01	0.37	14.68	3	318	88	96	0.01	0.0	7.091	0.072	0	0	0	82
PL.65777	PL.65775	C	#1/0 ACSR	7.48Y	124.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	7.136	0.046	0	0	0	0
PD.9594	PL.65777	C	15T	7.48Y	124.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	7.136	0.046	0	0	0	0
PL.65778	PD.9594	C	#1/0 ACSR	7.48Y	124.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	7.274	0.138	0	0	0	0
PL.65776	PL.65775	ABC	336 MCM AC	7.48Y	124.6	0.01	0.37	14.68	3	318	88	96	0.01	0.0	7.147	0.056	0	0	0	82
PL.2435	PL.65776	ABC	336 MCM AC	7.48Y	124.6	0.00	0.38	14.68	3	317	88	96	0.00	0.0	7.151	0.004	0	0	0	82
PL.2242	PL.2435	ABC	336 MCM AC	7.48Y	124.6	0.01	0.38	14.34	3	310	86	96	0.01	0.0	7.214	0.064	2	1	1	79
PL.2243	PL.2242	ABC	336 MCM AC	7.48Y	124.6	0.00	0.39	14.23	3	308	85	96	0.01	0.0	7.261	0.046	0	0	2	78
PL.1740	PL.2243	ABC	336 MCM AC	7.48Y	124.6	0.01	0.39	14.23	3	308	85	96	0.01	0.0	7.318	0.057	0	0	1	76
PL.2070	PL.1740	ABC	336 MCM AC	7.48Y	124.6	0.00	0.40	14.23	3	308	85	96	0.01	0.0	7.362	0.044	22	6	6	75
PL.2071	PL.2070	ABC	336 MCM AC	7.48Y	124.6	0.01	0.40	9.43	2	204	56	96	0.01	0.0	7.440	0.078	34	9	5	54
PL.2440	PL.2071	A	8 A (CWC)	7.48Y	124.6	0.00	0.40	5.79	6	42	12	96	0.00	0.0	7.445	0.005	0	0	0	10
PD.289	PL.2440	A	25T	7.48Y	124.6	0.00	0.40	5.79	0	42	12	96	0.00	0.0	7.445	0.005	0	0	0	10
PL.2441	PD.289	A	8 A (CWC)	7.48Y	124.6	0.00	0.41	5.79	6	42	12	96	0.00	0.0	7.453	0.009	0	0	0	10
PL.1754	PL.2441	A	8 A (CWC)	7.48Y	124.6	0.01	0.41	5.79	6	42	12	96	0.00	0.0	7.473	0.019	15	4	5	10
PL.1755	PL.1754	A	8 A (CWC)	7.47Y	124.6	0.01	0.42	3.71	4	27	7	97	0.00	0.0	7.499	0.027	10	3	2	5
PL.1756	PL.1755	A	#2 ACSR	7.47Y	124.6	0.00	0.42	2.27	1	16	5	95	0.00	0.0	7.529	0.030	16	5	3	3
PL.2069	PL.2071	ABC	336 MCM AC	7.48Y	124.6	0.00	0.41	5.93	1	128	35	96	0.00	0.0	7.523	0.083	0	0	0	39
PL.2244	PL.2069	ABC	336 MCM AC	7.48Y	124.6	0.00	0.41	5.24	1	113	31	96	0.00	0.0	7.568	0.045	1	0	1	34
PL.2245	PL.2244	ABC	336 MCM AC	7.48Y	124.6	0.00	0.41	5.18	1	112	31	96	0.00	0.0	7.612	0.044	5	1	2	33
PL.2516	PL.2245	C	#4 ACSR	7.48Y	124.6	0.00	0.41	0.31	0	2	1	89	0.00	0.0	7.617	0.004	0	0	0	1
PD.328	PL.2516	C	25T	7.48Y	124.6	0.00	0.41	0.31	0	2	1	89	0.00	0.0	7.617	0.004	0	0	0	1
PL.2517	PD.328	C	#4 ACSR	7.48Y	124.6	0.00	0.41	0.31	0	2	1	89	0.00	0.0	7.654	0.038	2	1	1	1

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1757	PL.2245	ABC	336 MCM AC	7.48Y	124.6	0.00	0.41	4.84	1	105	29	96	0.00	0.0	7.682	0.070	4	1	3	30
PL.1758	PL.1757	ABC	336 MCM AC	7.48Y	124.6	0.00	0.41	4.65	1	101	28	96	0.00	0.0	7.733	0.051	0	0	0	27
PL.1759	PL.1758	ABC	336 MCM AC	7.48Y	124.6	0.00	0.42	4.65	1	100	28	96	0.00	0.0	7.795	0.062	0	0	0	27
PL.2520	PL.1759	C	#4 ACSR	7.48Y	124.6	0.00	0.42	0.36	0	3	1	95	0.00	0.0	7.799	0.005	0	0	0	1
PD.330	PL.2520	C	25T	7.48Y	124.6	0.00	0.42	0.36	0	3	1	95	0.00	0.0	7.799	0.005	0	0	0	1
PL.2521	PD.330	C	#4 ACSR	7.48Y	124.6	0.00	0.42	0.36	0	3	1	95	0.00	0.0	7.845	0.045	3	1	1	1
PL.1761	PL.1759	ABC	336 MCM AC	7.47Y	124.6	0.00	0.42	4.53	1	98	27	96	0.00	0.0	7.870	0.075	0	0	0	26
PL.1762	PL.1761	ABC	336 MCM AC	7.47Y	124.6	0.00	0.42	4.53	1	98	27	96	0.00	0.0	7.967	0.097	0	0	0	26
PL.1764	PL.1762	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	4.53	1	98	27	96	0.00	0.0	8.072	0.105	0	0	1	26
PL.1768	PL.1764	ABC	336 MCM AC	7.47Y	124.6	0.01	0.43	4.53	1	98	27	96	0.00	0.0	8.244	0.172	0	0	0	25
PL.1769	PL.1768	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	4.29	1	93	26	96	0.00	0.0	8.293	0.049	0	0	0	23
PL.1770	PL.1769	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	2.16	0	47	13	96	0.00	0.0	8.367	0.074	0	0	0	13
PL.2064	PL.1770	ABC	336 MCM AC	7.47Y	124.6	0.00	0.43	1.59	0	34	9	97	0.00	0.0	8.420	0.053	0	0	0	10
PL.2065	PL.2064	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	1.08	0	23	6	97	0.00	0.0	8.529	0.110	0	0	0	6
PL.2016	PL.2065	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	1.08	0	23	6	97	0.00	0.0	8.628	0.099	0	0	0	6
PL.2017	PL.2016	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	1.08	0	23	6	97	0.00	0.0	8.725	0.097	0	0	0	6
PL.2018	PL.2017	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	1.08	0	23	6	97	0.00	0.0	8.827	0.102	0	0	0	6
PL.2019	PL.2018	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	1.08	0	23	6	97	0.00	0.0	8.909	0.082	0	0	0	6
PL.2020	PL.2019	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	1.08	0	23	6	97	0.00	0.0	9.022	0.112	0	0	0	6
PL.2249	PL.2020	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	1.08	0	23	6	97	0.00	0.0	9.147	0.126	5	1	1	6
PL.2250	PL.2249	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	0.84	0	18	5	96	0.00	0.0	9.218	0.071	0	0	0	5
PL.2058	PL.2250	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	0.35	0	8	2	97	0.00	0.0	9.274	0.057	0	0	0	4
PL.2251	PL.2058	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	0.27	0	6	2	95	0.00	0.0	9.338	0.063	0	0	0	2
PL.2252	PL.2251	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	0.27	0	6	2	95	0.00	0.0	9.520	0.182	2	1	1	2
PL.2253	PL.2252	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	0.18	0	4	1	97	0.00	0.0	9.626	0.106	0	0	0	1
PL.2264	PL.2253	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	0.18	0	4	1	97	0.00	0.0	9.740	0.114	4	1	1	1
PL.2265	PL.2264	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	9.800	0.061	0	0	0	0
PD.205-A	PL.2265	ABC	Open	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	9.800	0.061	0	0	0	0
PL.2452	PL.2058	C	#4 ACSR	7.47Y	124.6	0.00	0.44	0.26	0	2	1	89	0.00	0.0	9.279	0.005	0	0	0	2
PD.295	PL.2452	C	20T	7.47Y	124.6	0.00	0.44	0.26	0	2	1	89	0.00	0.0	9.279	0.005	0	0	0	2
PL.2453	PD.295	C	#4 ACSR	7.47Y	124.6	0.00	0.44	0.26	0	2	1	89	0.00	0.0	9.299	0.020	2	1	2	2

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2450	PL.2250	A	#2 ACSR	7.47Y	124.6	0.00	0.44	1.47	1	11	3	96	0.00	0.0	9.222	0.005	0	0	0	1
PD.294	PL.2450	A	20T	7.47Y	124.6	0.00	0.44	1.47	0	11	3	96	0.00	0.0	9.222	0.005	0	0	0	1
PL.2451	PD.294	A	#2 ACSR	7.47Y	124.6	0.00	0.44	1.47	1	11	3	96	0.00	0.0	9.242	0.020	11	3	1	1
PL.2448	PL.2064	C	#2 ACSR	7.47Y	124.6	0.00	0.43	1.54	1	11	3	96	0.00	0.0	8.425	0.005	0	0	0	4
PD.293	PL.2448	C	20T	7.47Y	124.6	0.00	0.43	1.54	0	11	3	96	0.00	0.0	8.425	0.005	0	0	0	4
PL.2449	PD.293	C	#2 ACSR	7.47Y	124.6	0.00	0.44	1.54	1	11	3	96	0.00	0.0	8.443	0.018	11	3	4	4
PL.2446	PL.1770	A	#2 ACSR	7.47Y	124.6	0.00	0.43	1.72	1	12	3	97	0.00	0.0	8.371	0.004	0	0	0	3
PD.292	PL.2446	A	20T	7.47Y	124.6	0.00	0.43	1.72	0	12	3	97	0.00	0.0	8.371	0.004	0	0	0	3
PL.2447	PD.292	A	#2 ACSR	7.47Y	124.6	0.00	0.43	1.72	1	12	3	97	0.00	0.0	8.384	0.013	2	1	1	3
PL.4519	PL.2447	A	#1/0 ACSR	7.47Y	124.6	0.00	0.44	1.41	1	10	3	96	0.00	0.0	8.408	0.024	10	3	2	2
PL.2444	PL.1769	A	#2 ACSR	7.47Y	124.6	0.00	0.43	6.38	4	46	13	96	0.00	0.0	8.298	0.005	0	0	0	10
PD.291	PL.2444	A	20T	7.47Y	124.6	0.00	0.43	6.38	0	46	13	96	0.00	0.0	8.298	0.005	0	0	0	10
PL.2445	PD.291	A	#2 ACSR	7.47Y	124.6	0.00	0.44	6.38	4	46	13	96	0.00	0.0	8.320	0.023	15	4	3	10
PL.2246	PL.2445	A	#2 ACSR	7.47Y	124.6	0.00	0.44	4.24	2	31	8	97	0.00	0.0	8.354	0.034	3	1	1	7
PL.2247	PL.2246	A	8 A (CWC)	7.47Y	124.6	0.00	0.45	3.86	4	28	8	96	0.00	0.0	8.373	0.018	2	0	1	6
PL.2248	PL.2247	A	8 A (CWC)	7.47Y	124.5	0.01	0.45	3.63	4	26	7	97	0.00	0.0	8.410	0.038	6	2	1	5
PL.1772	PL.2248	A	#4 ACSR	7.47Y	124.5	0.00	0.46	1.41	1	10	3	96	0.00	0.0	8.466	0.055	10	3	1	1
PL.1771	PL.2248	A	8 A (CWC)	7.47Y	124.5	0.01	0.46	1.43	1	10	3	96	0.00	0.0	8.516	0.106	0	0	0	3
PL.1774	PL.1771	A	8 A (CWC)	7.47Y	124.5	0.00	0.47	1.43	1	10	3	96	0.00	0.0	8.549	0.033	10	3	3	3
PL.2442	PL.1768	A	#2 ACSR	7.47Y	124.6	0.00	0.43	0.72	0	5	1	98	0.00	0.0	8.249	0.005	0	0	0	2
PD.290	PL.2442	A	25T	7.47Y	124.6	0.00	0.43	0.72	0	5	1	98	0.00	0.0	8.249	0.005	0	0	0	2
PL.2443	PD.290	A	#2 ACSR	7.47Y	124.6	0.00	0.43	0.72	0	5	1	98	0.00	0.0	8.275	0.026	5	1	2	2
PL.2438	PL.2069	A	#2 ACSR	7.48Y	124.6	0.00	0.41	2.07	1	15	4	97	0.00	0.0	7.527	0.005	0	0	0	5
PD.288	PL.2438	A	25T	7.48Y	124.6	0.00	0.41	2.07	0	15	4	97	0.00	0.0	7.527	0.005	0	0	0	5
PL.2439	PD.288	A	#2 ACSR	7.48Y	124.6	0.00	0.41	2.07	1	15	4	97	0.00	0.0	7.534	0.007	15	4	5	5
PL.2436	PL.2070	A	#4 ACSR	7.48Y	124.6	0.00	0.40	11.41	9	82	23	96	0.00	0.0	7.366	0.005	0	0	0	15
PD.287	PL.2436	A	25T	7.48Y	124.6	0.00	0.40	11.41	0	82	23	96	0.00	0.0	7.366	0.005	0	0	0	15
PL.2437	PD.287	A	#4 ACSR	7.47Y	124.6	0.02	0.42	11.41	9	82	23	96	0.01	0.0	7.412	0.046	25	7	5	15
PL.1741	PL.2437	A	#4 ACSR	7.47Y	124.6	0.02	0.44	7.88	6	57	16	96	0.01	0.0	7.476	0.064	13	3	2	10
PL.1742	PL.1741	A	#4 ACSR	7.47Y	124.5	0.02	0.46	6.14	5	44	12	96	0.01	0.0	7.567	0.091	4	1	1	8
PL.1743	PL.1742	A	#4 ACSR	7.47Y	124.5	0.02	0.48	5.53	4	40	11	96	0.01	0.0	7.661	0.094	5	1	2	7

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1744	PL.1743	A	#4 ACSR	7.47Y	124.5	0.01	0.50	4.80	4	35	10	96	0.00	0.0	7.726	0.065	8	2	1	5
PL.1746	PL.1744	A	#4 ACSR	7.47Y	124.5	0.01	0.50	3.66	3	26	7	97	0.00	0.0	7.758	0.033	2	1	1	4
PL.1747	PL.1746	A	#4 ACSR	7.47Y	124.5	0.01	0.51	2.92	2	21	6	96	0.00	0.0	7.833	0.075	0	0	0	2
PL.1751	PL.1747	A	#4 ACSR	7.47Y	124.5	0.01	0.52	1.33	1	10	3	96	0.00	0.0	7.930	0.097	0	0	0	1
PL.1752	PL.1751	A	#4 ACSR	7.47Y	124.5	0.00	0.52	1.33	1	10	3	96	0.00	0.0	7.989	0.059	10	3	1	1
PL.1750	PL.1747	A	#4 ACSR	7.47Y	124.5	0.00	0.51	1.60	1	11	3	96	0.00	0.0	7.873	0.039	11	3	1	1
PL.1748	PL.1746	A	#4 ACSR	7.47Y	124.5	0.00	0.50	0.40	0	3	1	95	0.00	0.0	7.819	0.061	3	1	1	1
PL.2432	PL.2435	C	#4 ACSR	7.48Y	124.6	0.00	0.38	1.04	1	7	2	96	0.00	0.0	7.155	0.005	0	0	0	3
PD.286	PL.2432	C	25T	7.48Y	124.6	0.00	0.38	1.04	0	7	2	96	0.00	0.0	7.155	0.005	0	0	0	3
PL.2433	PD.286	C	#4 ACSR	7.48Y	124.6	0.00	0.38	1.04	1	7	2	96	0.00	0.0	7.211	0.056	7	2	3	3
PL.2430	PL.2073	C	#4 ACSR	7.48Y	124.7	0.00	0.34	1.79	1	13	4	96	0.00	0.0	6.868	0.004	0	0	0	3
PD.285	PL.2430	C	25T	7.48Y	124.7	0.00	0.34	1.79	0	13	4	96	0.00	0.0	6.868	0.004	0	0	0	3
PL.2431	PD.285	C	#4 ACSR	7.48Y	124.7	0.00	0.35	1.79	1	13	4	96	0.00	0.0	6.899	0.031	4	1	2	3
PL.1711	PL.2431	C	#4 ACSR	7.48Y	124.7	0.00	0.35	1.30	1	9	3	95	0.00	0.0	6.947	0.048	9	3	1	1
PL.2510	PL.2241	C	#4 ACSR	7.48Y	124.7	0.00	0.32	2.91	2	21	6	96	0.00	0.0	6.711	0.005	0	0	0	3
PD.325	PL.2510	C	40QA	7.48Y	124.7	0.00	0.32	2.91	7	21	6	96	0.00	0.0	6.711	0.005	0	0	0	3
PL.2511	PD.325	C	#4 ACSR	7.48Y	124.7	0.00	0.33	2.91	2	21	6	96	0.00	0.0	6.732	0.021	0	0	0	3
PL.1708	PL.2511	C	#4 ACSR	7.48Y	124.7	0.00	0.33	2.91	2	21	6	96	0.00	0.0	6.773	0.040	21	6	3	3
PL.1709	PL.1708	C	#4 ACSR	7.48Y	124.7	0.00	0.33	0.00	0	0	0	100	0.00	0.0	6.811	0.038	0	0	0	0
PL.2428	PL.2236	C	#4 ACSR	7.48Y	124.7	0.00	0.29	0.53	0	4	1	97	0.00	0.0	6.508	0.005	0	0	0	2
PD.284	PL.2428	C	40QA	7.48Y	124.7	0.00	0.29	0.53	1	4	1	97	0.00	0.0	6.508	0.005	0	0	0	2
PL.2429	PD.284	C	#4 ACSR	7.48Y	124.7	0.00	0.29	0.53	0	4	1	97	0.00	0.0	6.529	0.021	4	1	2	2
PL.1707	PL.2086	C	#4 ACSR	7.49Y	124.8	0.00	0.25	2.89	2	21	6	96	0.00	0.0	6.231	0.024	0	0	0	4
PD.283	PL.1707	C	15T	7.49Y	124.8	0.00	0.25	2.89	0	21	6	96	0.00	0.0	6.231	0.024	0	0	0	4
PL.2426	PD.283	C	8 A (CWC)	7.49Y	124.8	0.00	0.25	2.89	3	21	6	96	0.00	0.0	6.233	0.003	9	3	2	4
PL.2427	PL.2426	C	8 A (CWC)	7.48Y	124.7	0.00	0.25	1.62	2	12	3	97	0.00	0.0	6.278	0.044	12	3	2	2
PL.2506	PL.2226	A	#4 ACSR	7.49Y	124.9	0.00	0.13	7.15	5	52	14	97	0.00	0.0	5.578	0.005	0	0	0	15
PD.324	PL.2506	A	40QA	7.49Y	124.9	0.00	0.13	7.15	18	52	14	97	0.00	0.0	5.578	0.005	0	0	0	15
PL.2507	PD.324	A	#4 ACSR	7.49Y	124.9	0.00	0.14	7.15	5	52	14	97	0.00	0.0	5.594	0.016	14	4	3	15
PL.2230	PL.2507	A	8 A (CWC)	7.49Y	124.8	0.01	0.15	5.25	5	38	10	97	0.00	0.0	5.638	0.044	15	4	5	12
PL.2231	PL.2230	A	8 A (CWC)	7.49Y	124.8	0.01	0.16	3.13	3	23	6	97	0.00	0.0	5.672	0.034	6	2	2	7

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1695	PL.2231	A	8 A (CWC)	7.49Y	124.8	0.00	0.16	2.36	2	17	5	96	0.00	0.0	5.703	0.031	5	1	2	5
PL.1696	PL.1695	A	8 A (CWC)	7.49Y	124.8	0.00	0.16	1.70	2	12	3	97	0.00	0.0	5.731	0.028	8	2	1	3
PL.1697	PL.1696	A	8 A (CWC)	7.49Y	124.8	0.00	0.17	0.54	1	4	1	97	0.00	0.0	5.769	0.037	0	0	0	2
PL.1698	PL.1697	A	8 A (CWC)	7.49Y	124.8	0.00	0.17	0.54	1	4	1	97	0.00	0.0	5.810	0.042	4	1	2	2
PL.2416	PL.2103	A	#4 ACSR	7.50Y	124.9	0.00	0.07	1.35	1	10	3	96	0.00	0.0	5.318	0.005	0	0	0	2
PD.278	PL.2416	A	40QA	7.50Y	124.9	0.00	0.07	1.35	3	10	3	96	0.00	0.0	5.318	0.005	0	0	0	2
PL.2417	PD.278	A	#4 ACSR	7.50Y	124.9	0.00	0.07	1.35	1	10	3	96	0.00	0.0	5.339	0.021	10	3	2	2
PL.2500	PL.2104	C	#4 ACSR	7.50Y	124.9	0.00	0.05	3.46	3	25	7	96	0.00	0.0	5.255	0.005	0	0	0	3
PD.321	PL.2500	C	40QA	7.50Y	124.9	0.00	0.05	3.46	9	25	7	96	0.00	0.0	5.255	0.005	0	0	0	3
PL.2501	PD.321	C	#4 ACSR	7.50Y	124.9	0.00	0.05	3.46	3	25	7	96	0.00	0.0	5.274	0.020	25	7	3	3
PL.2464	PL.2107	A	#4 ACSR	7.50Y	125.0	0.00	0.03	0.00	0	0	0	100	0.00	0.0	5.193	0.005	0	0	0	0
PD.303	PL.2464	A	40QA	7.50Y	125.0	0.00	0.03	0.00	0	0	0	100	0.00	0.0	5.193	0.005	0	0	0	0
PL.2465	PD.303	A	#4 ACSR	7.50Y	125.0	0.00	0.03	0.00	0	0	0	100	0.00	0.0	5.204	0.011	0	0	0	0
PL.1655	PL.2107	B	8 A (CWC)	7.49Y	124.9	0.11	0.14	28.76	29	208	58	96	0.17	0.1	5.246	0.057	10	3	4	57
PL.2556	PL.1655	B	8 A (CWC)	7.49Y	124.9	0.00	0.15	27.33	27	197	55	96	0.01	0.0	5.249	0.003	0	0	0	53
PD.351	PL.2556	B	50L	7.49Y	124.9	0.00	0.15	27.33	55	197	55	96	0.00	0.0	5.249	0.003	0	0	0	53
PL.2557	PD.351	B	8 A (CWC)	7.48Y	124.7	0.13	0.28	27.33	27	197	55	96	0.20	0.1	5.323	0.075	11	3	3	53
PL.1657	PL.2557	B	#4 ACSR	7.48Y	124.7	0.00	0.28	1.82	1	13	4	96	0.00	0.0	5.343	0.020	13	4	2	2
PL.1656	PL.2557	B	8 A (CWC)	7.48Y	124.6	0.13	0.41	23.96	24	173	48	96	0.17	0.1	5.412	0.088	21	6	5	48
PL.1658	PL.1656	B	8 A (CWC)	7.46Y	124.4	0.22	0.63	21.04	21	152	42	96	0.26	0.2	5.569	0.158	5	1	1	43
PL.1660	PL.1658	B	8 A (CWC)	7.46Y	124.3	0.11	0.74	20.39	20	147	41	96	0.13	0.1	5.654	0.085	8	2	3	42
PL.2260	PL.1660	B	8 A (CWC)	7.45Y	124.2	0.08	0.83	19.24	19	138	38	96	0.09	0.1	5.720	0.066	0	0	1	39
PL.2261	PL.2260	B	8 A (CWC)	7.45Y	124.1	0.06	0.88	19.24	19	138	38	96	0.06	0.0	5.766	0.046	10	3	4	38
PL.1661	PL.2261	B	8 A (CWC)	7.44Y	124.1	0.05	0.94	17.81	18	128	35	96	0.05	0.0	5.811	0.045	4	1	2	34
PL.1663	PL.1661	B	8 A (CWC)	7.44Y	124.0	0.04	0.98	15.86	16	114	31	96	0.04	0.0	5.850	0.039	0	0	1	30
PL.1664	PL.1663	B	8 A (CWC)	7.44Y	124.0	0.02	0.99	15.86	16	114	31	96	0.01	0.0	5.867	0.017	13	3	3	29
PL.1665	PL.1664	B	#4 ACSR	7.44Y	124.0	0.04	1.04	14.11	11	101	28	96	0.03	0.0	5.942	0.075	13	4	3	26
PL.1667	PL.1665	B	#4 ACSR	7.44Y	123.9	0.02	1.06	12.11	9	87	24	96	0.01	0.0	5.976	0.035	0	0	1	21
PL.1669	PL.1667	B	#4 ACSR	7.44Y	123.9	0.02	1.08	12.10	9	87	24	96	0.01	0.0	6.010	0.034	1	0	1	20
PL.1670	PL.1669	B	#4 ACSR	7.43Y	123.9	0.02	1.09	11.96	9	86	24	96	0.01	0.0	6.040	0.030	7	2	2	19
PL.1671	PL.1670	B	8 A (CWC)	7.43Y	123.8	0.09	1.18	11.05	11	79	22	96	0.06	0.1	6.164	0.124	0	0	1	17

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1673	PL.1671	B	#4 ACSR	7.43Y	123.8	0.00	1.18	0.43	0	3	1	95	0.00	0.0	6.211	0.047	3	1	1	1
PL.1674	PL.1671	B	8 A (CWC)	7.43Y	123.8	0.05	1.23	10.62	11	76	21	96	0.03	0.0	6.233	0.069	0	0	0	15
PL.1675	PL.1674	B	8 A (CWC)	7.42Y	123.7	0.04	1.27	10.62	11	76	21	96	0.03	0.0	6.294	0.061	0	0	0	15
PL.1676	PL.1675	B	8 A (CWC)	7.42Y	123.7	0.06	1.34	10.62	11	76	21	96	0.03	0.0	6.391	0.097	15	4	3	15
PL.1677	PL.1676	B	8 A (CWC)	7.42Y	123.6	0.04	1.38	8.51	9	61	17	96	0.02	0.0	6.468	0.076	13	4	2	12
PL.1678	PL.1677	B	8 A (CWC)	7.42Y	123.6	0.03	1.40	6.67	7	48	13	97	0.01	0.0	6.528	0.060	5	1	1	10
PL.1679	PL.1678	B	8 A (CWC)	7.41Y	123.6	0.03	1.43	6.04	6	43	12	96	0.01	0.0	6.611	0.083	3	1	1	9
PL.1680	PL.1679	B	#4 ACSR	7.41Y	123.6	0.00	1.44	2.71	2	19	5	97	0.00	0.0	6.644	0.033	11	3	2	3
PL.1681	PL.1680	B	#2 ACSR	7.41Y	123.6	0.00	1.44	1.13	1	8	2	97	0.00	0.0	6.670	0.026	0	0	0	1
PL.1682	PL.1681	B	#2 ACSR	7.41Y	123.6	0.00	1.44	1.13	1	8	2	97	0.00	0.0	6.734	0.064	8	2	1	1
PL.1683	PL.1679	B	#2 ACSR	7.41Y	123.6	0.00	1.43	0.00	0	0	0	100	0.00	0.0	6.675	0.064	0	0	0	1
PL.1685	PL.1683	B	#2 ACSR	7.41Y	123.6	0.00	1.43	0.00	0	0	0	100	0.00	0.0	6.730	0.055	0	0	1	1
PL.1684	PL.1679	B	8 A (CWC)	7.41Y	123.5	0.02	1.45	2.96	3	21	6	96	0.00	0.0	6.705	0.095	0	0	0	4
PL.2133	PL.1684	B	8 A (CWC)	7.41Y	123.5	0.01	1.46	2.96	3	21	6	96	0.00	0.0	6.731	0.026	0	0	0	4
PL.1687	PL.2133	B	#4 ACSR	7.41Y	123.5	0.00	1.46	0.71	1	5	1	98	0.00	0.0	6.759	0.028	0	0	0	1
PL.1686	PL.1687	B	#4 ACSR	7.41Y	123.5	0.00	1.46	0.71	1	5	1	98	0.00	0.0	6.801	0.042	5	1	1	1
PL.2227	PL.2133	B	8 A (CWC)	7.41Y	123.5	0.01	1.46	2.24	2	16	4	97	0.00	0.0	6.819	0.088	16	4	3	3
PL.2228	PL.2227	B	#2 ACSR	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	6.869	0.050	0	0	0	0
PL.1668	PL.1665	B	#4 ACSR	7.44Y	124.0	0.00	1.04	0.19	0	1	0	100	0.00	0.0	5.974	0.032	1	0	2	2
PL.1662	PL.1661	B	#4 ACSR	7.44Y	124.1	0.00	0.94	1.46	1	10	3	96	0.00	0.0	5.825	0.014	10	3	2	2
PL.2454	PL.2255	C	#2 ACSR	7.50Y	125.0	0.00	-0.03	1.48	1	11	3	96	0.00	0.0	5.009	0.005	0	0	0	3
PD.296	PL.2454	C	40QA	7.50Y	125.0	0.00	-0.03	1.48	4	11	3	96	0.00	0.0	5.009	0.005	0	0	0	3
PL.2455	PD.296	C	#2 ACSR	7.50Y	125.0	0.00	-0.03	1.48	1	11	3	96	0.00	0.0	5.045	0.036	11	3	3	3
PL.65771	PL.2254	C	#1/0 ACSR	7.50Y	125.1	0.00	-0.05	0.00	0	0	0	100	0.00	0.0	4.978	0.030	0	0	0	0
PL.1646	PL.2105	C	#4 ACSR	7.51Y	125.1	0.00	-0.09	1.07	1	8	2	97	0.00	0.0	4.839	0.005	0	0	0	7
PD.297	PL.1646	C	20T	7.51Y	125.1	0.00	-0.09	1.07	0	8	2	97	0.00	0.0	4.839	0.005	0	0	0	7
PL.10178	PD.297	C	#4 ACSR	7.51Y	125.1	0.00	-0.09	0.07	0	1	0	100	0.00	0.0	4.850	0.010	0	0	0	3
PL.21698	PL.10178	C	#4 ACSR	7.51Y	125.1	0.00	-0.09	0.07	0	1	0	100	0.00	0.0	4.862	0.013	0	0	0	3
PL.21699	PL.21698	C	#4 ACSR	7.51Y	125.1	0.00	-0.09	0.07	0	1	0	100	0.00	0.0	4.952	0.089	0	0	1	3
PL.1650	PL.21699	C	#2 ACSR	7.51Y	125.1	0.00	-0.09	0.03	0	0	0	100	0.00	0.0	4.989	0.038	0	0	1	2
PL.1654	PL.1650	C	#2 ACSR	7.51Y	125.1	0.00	-0.09	0.03	0	0	0	100	0.00	0.0	5.089	0.100	0	0	1	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2100	PD.297	C	#2 ACSR	7.51Y	125.1	0.00	-0.09	1.00	1	7	2	96	0.00	0.0	4.853	0.013	0	0	0	4
PL.1653	PL.2100	C	#2 ACSR	7.51Y	125.1	0.00	-0.09	1.00	1	7	2	96	0.00	0.0	4.862	0.009	1	0	1	4
PL.1652	PL.1653	C	#2 ACSR	7.51Y	125.1	0.00	-0.09	0.83	0	6	2	95	0.00	0.0	4.908	0.046	6	2	3	3
PL.2458	PL.2114	C	#4 ACSR	7.51Y	125.2	0.00	-0.20	0.92	1	7	2	96	0.00	0.0	4.548	0.005	0	0	0	3
PD.299	PL.2458	C	40QA	7.51Y	125.2	0.00	-0.20	0.92	2	7	2	96	0.00	0.0	4.548	0.005	0	0	0	3
PL.2459	PD.299	C	#4 ACSR	7.51Y	125.2	0.00	-0.20	0.92	1	7	2	96	0.00	0.0	4.588	0.039	7	2	3	3
PL.2460	PL.2117	C	#4 ACSR	7.51Y	125.2	0.00	-0.22	1.03	1	7	2	96	0.00	0.0	4.496	0.004	0	0	0	3
PD.300	PL.2460	C	15T	7.51Y	125.2	0.00	-0.22	1.03	0	7	2	96	0.00	0.0	4.496	0.004	0	0	0	3
PL.2461	PD.300	C	#4 ACSR	7.51Y	125.2	0.00	-0.22	1.03	1	7	2	96	0.00	0.0	4.519	0.023	7	2	3	3
PL.2462	PL.2257	C	#4 ACSR	7.52Y	125.3	0.00	-0.29	0.24	0	2	0	100	0.00	0.0	4.316	0.004	0	0	0	1
PD.301	PL.2462	C	40QA	7.52Y	125.3	0.00	-0.29	0.24	1	2	0	100	0.00	0.0	4.316	0.004	0	0	0	1
PL.2463	PD.301	C	#4 ACSR	7.52Y	125.3	0.00	-0.29	0.24	0	2	0	100	0.00	0.0	4.324	0.008	2	0	1	1
PL.1611	PL.2259	A	#4 ACSR	7.52Y	125.3	0.03	-0.30	42.16	32	306	85	96	0.06	0.0	4.222	0.014	7	2	1	63
PL.1613	PL.1611	A	#4 ACSR	7.52Y	125.3	0.01	-0.29	41.21	32	299	83	96	0.02	0.0	4.226	0.005	0	0	0	62
PD.302	PL.1613	A	30T	7.52Y	125.3	0.00	-0.29	41.21	0	299	83	96	0.00	0.0	4.226	0.005	0	0	0	62
PL.2005	PD.302	A	#4 ACSR	7.51Y	125.2	0.12	-0.17	39.80	31	288	80	96	0.25	0.1	4.295	0.069	20	6	3	58
PL.1616	PL.2005	A	#4 ACSR	7.51Y	125.1	0.09	-0.09	32.21	25	233	65	96	0.15	0.1	4.357	0.062	1	0	1	51
PL.1620	PL.1616	A	#2 ACSR	7.51Y	125.1	0.00	-0.09	2.59	1	19	5	97	0.00	0.0	4.370	0.013	19	5	2	2
PL.1612	PL.1616	A	#4 ACSR	7.51Y	125.1	0.00	-0.08	1.10	1	8	2	97	0.00	0.0	4.406	0.049	8	2	3	3
PL.1621	PL.1616	A	#4 ACSR	7.50Y	125.1	0.03	-0.06	28.31	22	205	57	96	0.05	0.0	4.382	0.025	5	1	1	45
PL.1622	PL.1621	A	#4 ACSR	7.50Y	125.0	0.04	-0.02	27.67	21	200	55	96	0.06	0.0	4.414	0.033	4	1	1	44
PL.1623	PL.1622	A	#4 ACSR	7.50Y	125.0	0.05	0.04	27.18	21	197	54	96	0.08	0.0	4.460	0.046	10	3	3	43
PL.1624	PL.1623	A	#4 ACSR	7.50Y	125.0	0.01	0.05	5.67	4	41	11	97	0.00	0.0	4.504	0.043	12	3	4	12
PL.1644	PL.1624	A	#4 ACSR	7.50Y	124.9	0.01	0.05	3.97	3	29	8	96	0.00	0.0	4.547	0.044	11	3	4	8
PL.1645	PL.1644	A	#4 ACSR	7.50Y	124.9	0.00	0.06	2.46	2	18	5	96	0.00	0.0	4.568	0.021	18	5	4	4
PL.1625	PL.1623	A	#4 ACSR	7.50Y	125.0	0.00	0.04	2.59	2	19	5	97	0.00	0.0	4.518	0.058	19	5	3	3
PL.1626	PL.1623	A	#4 ACSR	7.49Y	124.9	0.06	0.10	17.59	14	127	35	96	0.06	0.0	4.535	0.075	0	0	0	25
PL.1628	PL.1626	A	#4 ACSR	7.49Y	124.9	0.00	0.10	0.59	0	4	1	97	0.00	0.0	4.570	0.034	4	1	2	2
PL.1627	PL.1626	A	#4 ACSR	7.49Y	124.9	0.01	0.11	17.01	13	123	34	96	0.01	0.0	4.552	0.017	0	0	0	23
PL.1629	PL.1627	A	#4 ACSR	7.49Y	124.9	0.03	0.14	17.01	13	123	34	96	0.02	0.0	4.589	0.037	11	3	3	23
PL.1630	PL.1629	A	#4 ACSR	7.49Y	124.8	0.03	0.17	14.92	11	108	30	96	0.02	0.0	4.635	0.046	0	0	0	19

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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1632	PL.1630	A	#4 ACSR	7.49Y	124.8	0.02	0.19	14.92	11	108	30	96	0.02	0.0	4.670	0.036	8	2	2	19
PL.1633	PL.1632	A	#4 ACSR	7.49Y	124.8	0.03	0.22	13.86	11	100	28	96	0.02	0.0	4.720	0.050	3	1	1	17
PL.1634	PL.1633	A	#4 ACSR	7.49Y	124.8	0.02	0.24	13.39	10	97	27	96	0.01	0.0	4.757	0.037	5	1	4	16
PL.1635	PL.1634	A	#4 ACSR	7.48Y	124.7	0.03	0.27	12.66	10	91	25	96	0.02	0.0	4.808	0.051	11	3	1	12
PL.1636	PL.1635	A	#4 ACSR	7.48Y	124.7	0.01	0.28	11.14	9	80	22	96	0.01	0.0	4.836	0.028	26	7	3	11
PL.1637	PL.1636	A	#4 ACSR	7.48Y	124.7	0.02	0.30	7.52	6	54	15	96	0.01	0.0	4.887	0.051	9	2	2	8
PL.1638	PL.1637	A	#4 ACSR	7.48Y	124.7	0.02	0.31	6.31	5	45	13	96	0.01	0.0	4.944	0.057	0	0	0	6
PL.1639	PL.1638	A	#4 ACSR	7.48Y	124.7	0.00	0.32	4.31	3	31	9	96	0.00	0.0	4.978	0.034	20	5	2	4
PL.1641	PL.1639	A	#4 ACSR	7.48Y	124.7	0.00	0.32	1.59	1	12	3	97	0.00	0.0	5.029	0.052	9	3	1	2
PL.1642	PL.1641	A	#4 ACSR	7.48Y	124.7	0.00	0.32	0.28	0	2	1	89	0.00	0.0	5.064	0.034	2	1	1	1
PL.1643	PL.1642	A	#4 ACSR	7.48Y	124.7	0.00	0.32	0.00	0	0	0	100	0.00	0.0	5.121	0.057	0	0	0	0
PL.1640	PL.1638	A	#4 ACSR	7.48Y	124.7	0.00	0.31	2.00	2	14	4	96	0.00	0.0	4.989	0.046	14	4	2	2
PL.1631	PL.1629	A	#4 ACSR	7.49Y	124.9	0.00	0.14	0.55	0	4	1	97	0.00	0.0	4.667	0.078	4	1	1	1
PL.1617	PL.2005	A	#4 ACSR	7.51Y	125.2	0.01	-0.16	4.79	4	35	10	96	0.00	0.0	4.375	0.080	16	4	2	4
PL.1619	PL.1617	A	#4 ACSR	7.51Y	125.2	0.00	-0.16	1.39	1	10	3	96	0.00	0.0	4.416	0.041	10	3	1	1
PL.1618	PL.1617	A	#4 ACSR	7.51Y	125.2	0.00	-0.16	1.19	1	9	2	98	0.00	0.0	4.394	0.019	9	2	1	1
PL.2118	PD.302	A	#4 ACSR	7.52Y	125.3	0.00	-0.29	1.42	1	10	3	96	0.00	0.0	4.232	0.006	0	0	0	4
PL.1614	PL.2118	A	#4 ACSR	7.52Y	125.3	0.00	-0.29	1.42	1	10	3	96	0.00	0.0	4.260	0.028	7	2	3	4
PL.1615	PL.1614	A	#4 ACSR	7.52Y	125.3	0.00	-0.29	0.38	0	3	1	95	0.00	0.0	4.287	0.027	3	1	1	1
PL.2350	PL.2123	C	#4 ACSR	7.11Y	118.5	0.00	6.49	1.92	1	13	4	96	0.00	0.0	3.766	0.005	0	0	0	3
PD.248	PL.2350	C	40QA	7.11Y	118.5	0.00	6.49	1.92	5	13	4	96	0.00	0.0	3.766	0.005	0	0	0	3
PL.2351	PD.248	C	#4 ACSR	7.11Y	118.5	0.00	6.49	1.92	1	13	4	96	0.00	0.0	3.807	0.041	13	4	3	3
PL.2348	PL.2124	A	#2 ACSR	7.11Y	118.5	0.00	6.48	0.30	0	2	1	89	0.00	0.0	3.739	0.005	0	0	0	1
PD.247	PL.2348	A	40QA	7.11Y	118.5	0.00	6.48	0.30	1	2	1	89	0.00	0.0	3.739	0.005	0	0	0	1
PL.2349	PD.247	A	#2 ACSR	7.11Y	118.5	0.00	6.48	0.30	0	2	1	89	0.00	0.0	3.752	0.013	2	1	1	1
PL.2496	PL.2126	C	#2 ACSR	7.12Y	118.6	0.00	6.39	1.81	1	12	3	97	0.00	0.0	3.587	0.005	0	0	0	1
PD.319	PL.2496	C	40QA	7.12Y	118.6	0.00	6.39	1.81	5	12	3	97	0.00	0.0	3.587	0.005	0	0	0	1
PL.2497	PD.319	C	#2 ACSR	7.12Y	118.6	0.01	6.40	1.81	1	12	3	97	0.00	0.0	3.683	0.096	0	0	0	1
PL.1608	PL.2497	C	#2 ACSR	7.12Y	118.6	0.00	6.40	1.81	1	12	3	97	0.00	0.0	3.740	0.057	12	3	1	1
PL.2346	PL.2126	A	#2 ACSR	7.12Y	118.6	0.00	6.39	0.86	0	6	2	95	0.00	0.0	3.587	0.005	0	0	0	2
PD.246	PL.2346	A	40QA	7.12Y	118.6	0.00	6.39	0.86	2	6	2	95	0.00	0.0	3.587	0.005	0	0	0	2

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2347	PD.246	A	#2 ACSR	7.12Y	118.6	0.00	6.39	0.86	0	6	2	95	0.00	0.0	3.598	0.011	6	2	2	2
PL.1606	PL.2127	A	#4 ACSR	7.12Y	118.7	0.00	6.31	1.87	1	13	4	96	0.00	0.0	3.433	0.005	0	0	0	2
PD.245	PL.1606	A	40QA	7.12Y	118.7	0.00	6.31	1.87	5	13	4	96	0.00	0.0	3.433	0.005	0	0	0	2
PL.2010	PD.245	A	#4 ACSR	7.12Y	118.7	0.00	6.31	1.87	1	13	4	96	0.00	0.0	3.442	0.008	13	4	2	2
PL.2344	PL.4469	C	#4 ACSR	7.12Y	118.7	0.00	6.28	0.53	0	4	1	97	0.00	0.0	3.380	0.005	0	0	0	1
PD.244	PL.2344	C	40QA	7.12Y	118.7	0.00	6.28	0.53	1	4	1	97	0.00	0.0	3.380	0.005	0	0	0	1
PL.2345	PD.244	C	#4 ACSR	7.12Y	118.7	0.00	6.28	0.53	0	4	1	97	0.00	0.0	3.404	0.024	4	1	1	1
PL.2342	PL.2131	C	#2 ACSR	7.14Y	118.9	0.00	6.08	1.66	1	11	3	96	0.00	0.0	3.177	0.005	0	0	0	2
PD.243	PL.2342	C	40QA	7.14Y	118.9	0.00	6.08	1.66	4	11	3	96	0.00	0.0	3.177	0.005	0	0	0	2
PL.2343	PD.243	C	#2 ACSR	7.14Y	118.9	0.00	6.08	1.66	1	11	3	96	0.00	0.0	3.213	0.035	6	2	1	2
PL.1605	PL.2343	C	#2 ACSR	7.14Y	118.9	0.00	6.08	0.72	0	5	1	98	0.00	0.0	3.258	0.045	5	1	1	1
PL.2494	PL.2131	A	#4 ACSR	7.14Y	118.9	0.00	6.08	2.89	2	20	5	97	0.00	0.0	3.177	0.004	0	0	0	5
PD.318	PL.2494	A	15T	7.14Y	118.9	0.00	6.08	2.89	0	20	5	97	0.00	0.0	3.177	0.004	0	0	0	5
PL.2495	PD.318	A	#4 ACSR	7.14Y	118.9	0.00	6.08	2.89	2	20	5	97	0.00	0.0	3.196	0.019	20	5	5	5
PL.2340	PL.1579	B	#1/0 ACSR	7.16Y	119.3	0.00	5.70	1.61	1	11	3	96	0.00	0.0	2.956	0.004	0	0	0	1
PD.242	PL.2340	B	40QA	7.16Y	119.3	0.00	5.70	1.61	4	11	3	96	0.00	0.0	2.956	0.004	0	0	0	1
PL.2341	PD.242	B	#1/0 ACSR	7.16Y	119.3	0.00	5.70	1.61	1	11	3	96	0.00	0.0	2.968	0.012	0	0	0	1
PL.2185	PL.2341	B	#1/0 ACSR	7.16Y	119.3	0.00	5.70	1.61	1	11	3	96	0.00	0.0	2.993	0.025	11	3	1	1
PL.2324	PL.1564	C	#1/0 ACSR	7.20Y	120.0	0.00	4.98	1.61	1	11	3	96	0.00	0.0	2.551	0.005	0	0	0	3
PD.234	PL.2324	C	40QA	7.20Y	120.0	0.00	4.98	1.61	4	11	3	96	0.00	0.0	2.551	0.005	0	0	0	3
PL.2325	PD.234	C	#1/0 ACSR	7.20Y	120.0	0.00	4.98	1.61	1	11	3	96	0.00	0.0	2.592	0.041	2	1	1	3
PL.1569	PL.2325	C	#1/0 ACSR	7.20Y	120.0	0.00	4.99	1.33	1	9	3	95	0.00	0.0	2.615	0.024	9	3	2	2
PL.2336	PL.1550	C	#1/0 ACSR	7.23Y	120.5	0.00	4.51	11.77	5	82	23	96	0.00	0.0	2.284	0.005	0	0	0	11
PD.240	PL.2336	C	40QA	7.23Y	120.5	0.00	4.51	11.77	29	82	23	96	0.00	0.0	2.284	0.005	0	0	0	11
PL.2337	PD.240	C	#1/0 ACSR	7.23Y	120.5	0.01	4.52	11.77	5	82	23	96	0.01	0.0	2.330	0.047	12	3	1	11
PL.1553	PL.2337	C	#1/0 ACSR	7.23Y	120.5	0.01	4.53	10.09	4	70	19	97	0.00	0.0	2.358	0.028	2	1	1	10
PL.1554	PL.1553	C	#1/0 ACSR	7.23Y	120.5	0.01	4.54	5.68	2	40	11	96	0.00	0.0	2.465	0.107	30	8	2	3
PL.1558	PL.1554	C	6 A (CWC)	7.23Y	120.5	0.00	4.54	1.35	1	9	3	95	0.00	0.0	2.548	0.083	9	3	1	1
PL.1555	PL.1553	C	#4 ACSR	7.23Y	120.5	0.00	4.53	4.09	3	28	8	96	0.00	0.0	2.385	0.027	5	1	3	6
PL.1559	PL.1555	C	#1/0 ACSR	7.23Y	120.5	0.00	4.54	3.43	1	24	7	96	0.00	0.0	2.443	0.058	0	0	0	3
PL.1560	PL.1559	C	#1/0 ACSR	7.23Y	120.5	0.00	4.54	3.43	1	24	7	96	0.00	0.0	2.527	0.084	18	5	2	3

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1561	PL.1560	C	#1/0 ACSR	7.23Y	120.5	0.00	4.54	0.87	0	6	2	95	0.00	0.0	2.570	0.043	6	2	1	1
PL.2332	PL.1547	A	#1/0 ACSR	7.24Y	120.7	0.00	4.25	1.78	1	12	3	97	0.00	0.0	2.140	0.005	0	0	0	2
PD.238	PL.2332	A	40QA	7.24Y	120.7	0.00	4.25	1.78	4	12	3	97	0.00	0.0	2.140	0.005	0	0	0	2
PL.2333	PD.238	A	#1/0 ACSR	7.24Y	120.7	0.00	4.25	1.78	1	12	3	97	0.00	0.0	2.149	0.008	12	3	2	2
PL.2330	PL.1541	A	#1/0 ACSR	7.27Y	121.1	0.00	3.85	1.39	1	10	3	96	0.00	0.0	1.922	0.004	0	0	0	1
PD.237	PL.2330	A	40QA	7.27Y	121.1	0.00	3.85	1.39	3	10	3	96	0.00	0.0	1.922	0.004	0	0	0	1
PL.2331	PD.237	A	#1/0 ACSR	7.27Y	121.1	0.00	3.85	1.39	1	10	3	96	0.00	0.0	1.956	0.034	10	3	1	1
PL.4466	PL.1529	A	#1/0 ACSR	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	1.786	0.004	0	0	0	0
PD.1295	PL.4466	A	40QA	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	1.786	0.004	0	0	0	0
PL.4467	PD.1295	A	#1/0 ACSR	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	1.809	0.023	0	0	0	0
PL.4464	PL.1529	C	#1/0 ACSR	7.28Y	121.4	0.00	3.60	1.47	1	10	3	96	0.00	0.0	1.786	0.003	0	0	0	2
PD.1294	PL.4464	C	40QA	7.28Y	121.4	0.00	3.60	1.47	4	10	3	96	0.00	0.0	1.786	0.003	0	0	0	2
PL.4465	PD.1294	C	#1/0 ACSR	7.28Y	121.4	0.00	3.60	1.47	1	10	3	96	0.00	0.0	1.820	0.034	10	3	2	2
PL.2484	PL.1522	C	6 A (CWC)	7.29Y	121.5	0.00	3.45	2.95	2	21	6	96	0.00	0.0	1.706	0.005	0	0	0	5
PD.313	PL.2484	C	40QA	7.29Y	121.5	0.00	3.45	2.95	7	21	6	96	0.00	0.0	1.706	0.005	0	0	0	5
PL.2485	PD.313	C	6 A (CWC)	7.29Y	121.5	0.02	3.47	2.95	2	21	6	96	0.00	0.0	1.819	0.113	0	0	0	5
PL.2011	PL.2485	C	6 A (CWC)	7.29Y	121.5	0.01	3.48	2.95	2	21	6	96	0.00	0.0	1.935	0.115	2	1	1	5
PL.1537	PL.2011	C	6 A (CWC)	7.29Y	121.5	0.01	3.49	2.68	2	19	5	97	0.00	0.0	2.030	0.095	6	2	1	4
PL.1538	PL.1537	C	6 A (CWC)	7.29Y	121.5	0.00	3.50	1.77	1	12	3	97	0.00	0.0	2.118	0.088	12	3	3	3
PL.2290	PL.1511	A	#1/0 ACSR	7.30Y	121.7	0.00	3.26	2.56	1	18	5	96	0.00	0.0	1.604	0.005	0	0	0	2
PD.218	PL.2290	A	40QA	7.30Y	121.7	0.00	3.26	2.56	6	18	5	96	0.00	0.0	1.604	0.005	0	0	0	2
PL.2291	PD.218	A	#1/0 ACSR	7.30Y	121.7	0.00	3.26	2.56	1	18	5	96	0.00	0.0	1.626	0.022	10	3	1	2
PL.1521	PL.2291	A	#4 ACSR	7.30Y	121.7	0.00	3.26	1.21	1	8	2	97	0.00	0.0	1.676	0.050	8	2	1	1
PL.2544	PL.1510	ABC	#1/0 ACSR	7.31Y	121.8	0.00	3.19	5.78	3	118	46	93	0.00	0.0	1.567	0.005	0	0	0	9
PD.343	PL.2544	ABC	25T	7.31Y	121.8	0.00	3.19	5.78	0	118	46	93	0.00	0.0	1.567	0.005	0	0	0	9
PL.2545	PD.343	ABC	#1/0 ACSR	7.31Y	121.8	0.00	3.20	5.78	3	118	46	93	0.00	0.0	1.596	0.028	0	0	0	9
PL.1523	PL.2545	C	#4 ACSR	7.31Y	121.8	0.00	3.20	3.22	2	23	6	97	0.00	0.0	1.629	0.034	23	6	3	3
PL.1525	PL.2545	ABC	8 A (CWC)	7.31Y	121.8	0.01	3.20	4.71	5	95	40	92	0.01	0.0	1.624	0.029	18	5	2	6
PL.1524	PL.1525	ABC	8 A (CWC)	7.31Y	121.8	0.02	3.22	3.85	4	77	35	91	0.01	0.0	1.702	0.078	8	2	1	4
PL.1530	PL.1524	ABC	8 A (CWC)	7.31Y	121.8	0.00	3.22	3.49	3	69	33	90	0.00	0.0	1.721	0.019	0	0	0	3
PL.1531	PL.1530	ABC	8 A (CWC)	7.31Y	121.8	0.00	3.23	3.35	3	66	32	90	0.00	0.0	1.741	0.020	0	0	0	2

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1533	PL.1531	ABC	8 A (CWC)	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	1.765	0.023	0	0	0	0
PL.1534	PL.1531	ABC	#1/0 ACSR	7.31Y	121.8	0.00	3.23	3.35	1	66	32	90	0.00	0.0	1.788	0.047	2	0	1	2
PL.1535	PL.1534	ABC	#1/0 ACSR	7.31Y	121.8	0.00	3.23	3.27	1	65	31	90	0.00	0.0	1.817	0.029	0	0	0	1
PL.1536	PL.1535	ABC	#1/0 ACSR	7.31Y	121.8	0.00	3.23	3.27	1	65	31	90	0.00	0.0	1.841	0.024	65	31	1	1
PL.2294	PL.1530	C	#1/0 ACSR	7.31Y	121.8	0.00	3.22	0.43	0	3	1	95	0.00	0.0	1.726	0.005	0	0	0	1
PD.220	PL.2294	C	40QA	7.31Y	121.8	0.00	3.22	0.43	1	3	1	95	0.00	0.0	1.726	0.005	0	0	0	1
PL.2295	PD.220	C	#1/0 ACSR	7.31Y	121.8	0.00	3.22	0.43	0	3	1	95	0.00	0.0	1.752	0.027	0	0	0	1
PL.1532	PL.2295	C	#1/0 ACSR	7.31Y	121.8	0.00	3.23	0.43	0	3	1	95	0.00	0.0	1.782	0.029	3	1	1	1
PL.2482	PL.1510	A	#1/0 ACSR	7.31Y	121.8	0.00	3.19	4.29	2	30	8	97	0.00	0.0	1.567	0.005	0	0	0	7
PD.312	PL.2482	A	25T	7.31Y	121.8	0.00	3.19	4.29	0	30	8	97	0.00	0.0	1.567	0.005	0	0	0	7
PL.2483	PD.312	A	#1/0 ACSR	7.31Y	121.8	0.00	3.20	4.29	2	30	8	97	0.00	0.0	1.606	0.039	0	0	0	7
PL.1512	PL.2483	A	8 A (CWC)	7.31Y	121.8	0.03	3.23	4.29	4	30	8	97	0.01	0.0	1.704	0.098	0	0	0	7
PL.1513	PL.1512	A	8 A (CWC)	7.30Y	121.7	0.03	3.25	4.29	4	30	8	97	0.01	0.0	1.797	0.092	0	0	1	7
PL.1514	PL.1513	A	#4 ACSR	7.30Y	121.7	0.01	3.26	4.25	3	30	8	97	0.00	0.0	1.838	0.042	15	4	1	6
PL.1515	PL.1514	A	#4 ACSR	7.30Y	121.7	0.00	3.26	2.16	2	15	4	97	0.00	0.0	1.874	0.036	0	0	0	5
PL.1516	PL.1515	A	#2 ACSR	7.30Y	121.7	0.00	3.26	0.82	0	6	2	95	0.00	0.0	1.911	0.036	0	0	0	1
PL.1517	PL.1516	A	#2 ACSR	7.30Y	121.7	0.00	3.26	0.82	0	6	2	95	0.00	0.0	1.978	0.068	6	2	1	1
PL.1518	PL.1515	A	#4 ACSR	7.30Y	121.7	0.00	3.26	1.34	1	9	3	95	0.00	0.0	1.911	0.036	3	1	2	4
PL.1519	PL.1518	A	#2 ACSR	7.30Y	121.7	0.00	3.27	0.95	1	7	2	96	0.00	0.0	1.981	0.071	0	0	0	2
PL.1520	PL.1519	A	#2 ACSR	7.30Y	121.7	0.00	3.27	0.95	1	7	2	96	0.00	0.0	2.011	0.030	7	2	2	2
PL.2288	PL.2141	C	#1/0 ACSR	7.32Y	122.0	0.00	2.95	3.12	1	22	6	96	0.00	0.0	1.444	0.005	0	0	0	7
PD.217	PL.2288	C	40QA	7.32Y	122.0	0.00	2.95	3.12	8	22	6	96	0.00	0.0	1.444	0.005	0	0	0	7
PL.2289	PD.217	C	#1/0 ACSR	7.32Y	122.0	0.00	2.95	3.12	1	22	6	96	0.00	0.0	1.458	0.014	6	2	3	7
PL.2142	PL.2289	C	#1/0 ACSR	7.32Y	122.0	0.00	2.95	2.33	1	16	5	95	0.00	0.0	1.464	0.006	0	0	0	4
PL.1508	PL.2142	C	8 A (CWC)	7.32Y	122.0	0.00	2.96	2.33	2	16	5	95	0.00	0.0	1.509	0.045	16	5	4	4
PL.2286	PL.1581	A	#4 ACSR	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	1.131	0.005	0	0	0	0
PD.216	PL.2286	A	50QA	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	1.131	0.005	0	0	0	0
PL.2287	PD.216	A	#4 ACSR	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	1.163	0.032	0	0	0	0
PL.2488	PL.1580	C	#1/0 ACSR	7.37Y	122.8	0.00	2.15	1.94	1	14	4	96	0.00	0.0	1.036	0.005	0	0	0	2
PD.315	PL.2488	C	40QA	7.37Y	122.8	0.00	2.15	1.94	5	14	4	96	0.00	0.0	1.036	0.005	0	0	0	2
PL.2489	PD.315	C	#1/0 ACSR	7.37Y	122.8	0.00	2.15	1.94	1	14	4	96	0.00	0.0	1.068	0.031	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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1467	PL.1466	ABC	#1/0 ACSR	7.41Y	123.5	0.00	1.47	4.77	2	102	28	96	0.00	0.0	0.693	0.005	0	0	0	28
PD.341	PL.1467	ABC	50QA	7.41Y	123.5	0.00	1.47	4.77	10	102	28	96	0.00	0.0	0.693	0.005	0	0	0	28
PL.2003	PD.341	ABC	#1/0 ACSR	7.41Y	123.5	0.00	1.47	4.77	2	102	28	96	0.00	0.0	0.703	0.010	1	0	1	28
PL.1469	PL.2003	A	#1/0 ACSR	7.41Y	123.5	0.02	1.49	14.16	6	101	28	96	0.01	0.0	0.757	0.053	0	0	0	27
PL.1471	PL.1469	A	#4 ACSR	7.41Y	123.5	0.00	1.49	1.69	1	12	3	97	0.00	0.0	0.777	0.021	12	3	2	2
PL.1474	PL.1469	A	#1/0 ACSR	7.41Y	123.5	0.04	1.53	12.47	5	89	25	96	0.02	0.0	0.895	0.138	12	3	5	25
PL.1475	PL.1474	A	#1/0 ACSR	7.41Y	123.5	0.01	1.54	10.80	5	77	21	96	0.00	0.0	0.933	0.038	0	0	0	20
PL.1476	PL.1475	A	#1/0 ACSR	7.41Y	123.4	0.01	1.55	10.80	5	77	21	96	0.01	0.0	0.983	0.050	4	1	1	20
PL.1477	PL.1476	A	#1/0 ACSR	7.40Y	123.4	0.04	1.59	10.19	4	73	20	96	0.02	0.0	1.138	0.154	1	0	1	19
PL.1479	PL.1477	A	#1/0 ACSR	7.40Y	123.4	0.01	1.60	10.01	4	71	20	96	0.01	0.0	1.184	0.046	0	0	0	18
PL.1480	PL.1479	A	#1/0 ACSR	7.40Y	123.4	0.01	1.62	10.01	4	71	20	96	0.01	0.0	1.239	0.055	0	0	0	18
PL.1482	PL.1480	A	8 A (CWC)	7.40Y	123.4	0.00	1.62	10.01	10	71	20	96	0.00	0.0	1.241	0.002	0	0	0	18
PL.1483	PL.1482	A	6 A (CWC)	7.40Y	123.3	0.05	1.66	10.01	7	71	20	96	0.02	0.0	1.345	0.103	4	1	2	18
PL.1484	PL.1483	A	6 A (CWC)	7.40Y	123.3	0.03	1.69	9.42	7	67	19	96	0.01	0.0	1.422	0.077	13	4	3	16
PL.1485	PL.1484	A	6 A (CWC)	7.40Y	123.3	0.03	1.73	7.56	5	54	15	96	0.01	0.0	1.525	0.104	3	1	1	13
PL.1486	PL.1485	A	6 A (CWC)	7.39Y	123.2	0.03	1.76	7.16	5	51	14	96	0.01	0.0	1.628	0.103	0	0	0	12
PL.1487	PL.1486	A	6 A (CWC)	7.39Y	123.2	0.04	1.80	7.16	5	51	14	96	0.02	0.0	1.766	0.139	7	2	1	12
PL.1489	PL.1487	A	8 A (CWC)	7.39Y	123.2	0.02	1.83	5.21	5	37	10	97	0.01	0.0	1.843	0.077	10	3	3	10
PL.1490	PL.1489	A	8 A (CWC)	7.39Y	123.1	0.03	1.86	3.80	4	27	7	97	0.01	0.0	1.955	0.112	0	0	0	7
PL.1493	PL.1490	A	8 A (CWC)	7.39Y	123.1	0.00	1.86	2.54	3	18	5	96	0.00	0.0	2.006	0.051	18	5	3	3
PL.1492	PL.1490	A	#4 ACSR	7.39Y	123.1	0.00	1.86	1.26	1	9	2	98	0.00	0.0	2.003	0.048	9	2	4	4
PL.10156	PL.1487	A	#1/0 ACSR	7.39Y	123.2	0.00	1.80	0.94	0	7	2	96	0.00	0.0	1.794	0.028	7	2	1	1
PL.1481	PL.1480	A	#4 ACSR	7.40Y	123.4	0.00	1.62	0.00	0	0	0	100	0.00	0.0	1.281	0.042	0	0	0	0
PL.2478	PL.1465	B	#1/0 ACSR	7.42Y	123.6	0.00	1.41	0.18	0	1	0	100	0.00	0.0	0.662	0.005	0	0	0	1
PD.310	PL.2478	B	40QA	7.42Y	123.6	0.00	1.41	0.18	0	1	0	100	0.00	0.0	0.662	0.005	0	0	0	1
PL.2479	PD.310	B	#1/0 ACSR	7.42Y	123.6	0.00	1.41	0.18	0	1	0	100	0.00	0.0	0.675	0.012	1	0	1	1
PL.2410	PL.1399	C	#2 ACSR	7.43Y	123.8	0.00	1.20	2.89	2	21	6	96	0.00	0.0	0.557	0.005	0	0	0	3
PD.275	PL.2410	C	30T	7.43Y	123.8	0.00	1.20	2.89	0	21	6	96	0.00	0.0	0.557	0.005	0	0	0	3
PL.2411	PD.275	C	#2 ACSR	7.43Y	123.8	0.00	1.20	2.89	2	21	6	96	0.00	0.0	0.573	0.017	10	3	2	3
PL.1460	PL.2411	C	#2 ACSR	7.43Y	123.8	0.00	1.20	1.44	1	10	3	96	0.00	0.0	0.617	0.044	0	0	0	1
PL.1461	PL.1460	C	#4 ACSR	7.43Y	123.8	0.00	1.20	1.44	1	10	3	96	0.00	0.0	0.664	0.047	10	3	1	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1583	PL.1393	ABC	336 MCM AC	7.45Y	124.1	0.00	0.86	16.44	3	354	98	96	0.00	0.0	0.405	0.015	0	0	0	92
PL.2554	PL.1583	ABC	#1/0 ACSR	7.45Y	124.1	0.00	0.86	16.44	7	354	98	96	0.00	0.0	0.407	0.003	0	0	0	92
PD.350	PL.2554	ABC	70L	7.45Y	124.1	0.00	0.86	16.44	23	354	98	96	0.00	0.0	0.407	0.003	0	0	0	92
PL.2555	PD.350	ABC	#1/0 ACSR	7.45Y	124.1	0.01	0.88	16.44	7	354	98	96	0.03	0.0	0.453	0.046	18	5	5	92
PL.1421	PL.2555	ABC	#1/0 ACSR	7.45Y	124.1	0.01	0.89	14.83	6	319	88	96	0.03	0.0	0.507	0.054	0	0	1	84
PL.1425	PL.1421	ABC	#1/0 ACSR	7.45Y	124.1	0.01	0.90	14.81	6	319	88	96	0.02	0.0	0.546	0.039	37	10	5	83
PL.1426	PL.1425	ABC	#1/0 ACSR	7.45Y	124.1	0.01	0.91	13.07	6	281	78	96	0.02	0.0	0.599	0.052	6	2	3	78
PL.1429	PL.1426	B	8 A (CWC)	7.45Y	124.1	0.00	0.91	0.86	1	6	2	95	0.00	0.0	0.641	0.042	4	1	1	2
PL.1433	PL.1429	B	8 A (CWC)	7.45Y	124.1	0.00	0.91	0.29	0	2	1	89	0.00	0.0	0.676	0.035	2	1	1	1
PL.1434	PL.1433	B	8 A (CWC)	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	0.741	0.065	0	0	0	0
PL.1428	PL.1426	B	8 A (CWC)	7.45Y	124.1	0.00	0.91	1.35	1	10	3	96	0.00	0.0	0.647	0.048	10	3	1	1
PL.1432	PL.1428	B	8 A (CWC)	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	0.649	0.002	0	0	0	0
PL.1427	PL.1426	ABC	#1/0 ACSR	7.44Y	124.1	0.01	0.92	12.04	5	259	72	96	0.01	0.0	0.624	0.025	4	1	3	72
PL.1430	PL.1427	ABC	#1/0 ACSR	7.44Y	124.1	0.01	0.93	11.84	5	255	70	96	0.03	0.0	0.694	0.071	14	4	6	69
PL.1438	PL.1430	ABC	#1/0 ACSR	7.44Y	124.1	0.01	0.94	10.41	5	224	62	96	0.02	0.0	0.754	0.060	2	0	1	60
PL.1439	PL.1438	ABC	#1/0 ACSR	7.44Y	124.0	0.01	0.95	10.33	4	222	62	96	0.02	0.0	0.814	0.060	30	8	6	59
PL.1440	PL.1439	ABC	#1/0 ACSR	7.44Y	124.0	0.01	0.96	8.54	4	184	51	96	0.01	0.0	0.884	0.070	11	3	3	52
PL.4514	PL.1440	B	8 A (CWC)	7.44Y	124.0	0.01	0.97	4.13	4	30	8	97	0.00	0.0	0.915	0.031	11	3	1	12
PL.4515	PL.4514	B	8 A (CWC)	7.44Y	124.0	0.02	0.99	2.59	3	19	5	97	0.00	0.0	1.045	0.130	0	0	0	11
PL.1445	PL.4515	B	8 A (CWC)	7.44Y	124.0	0.00	1.00	0.73	1	5	1	98	0.00	0.0	1.139	0.094	0	0	0	2
PL.1448	PL.1445	B	8 A (CWC)	7.44Y	124.0	0.00	1.00	0.73	1	5	1	98	0.00	0.0	1.192	0.053	5	1	2	2
PL.1446	PL.4515	B	#4 ACSR	7.44Y	124.0	0.00	1.00	1.86	1	13	4	96	0.00	0.0	1.089	0.044	8	2	7	9
PL.1447	PL.1446	B	#4 ACSR	7.44Y	124.0	0.00	1.00	0.71	1	5	1	98	0.00	0.0	1.142	0.053	5	1	2	2
PL.1449	PL.1447	B	#4 ACSR	7.44Y	124.0	0.00	1.00	0.00	0	0	0	100	0.00	0.0	1.217	0.076	0	0	0	0
PL.1443	PL.1440	B	#1/0 ACSR	7.44Y	124.0	0.01	0.98	19.97	9	143	40	96	0.01	0.0	0.913	0.028	8	2	1	37
PL.2220	PL.1443	B	#1/0 ACSR	7.44Y	124.0	0.01	0.99	18.87	8	135	37	96	0.01	0.0	0.945	0.032	9	3	2	36
PL.2221	PL.2220	B	#1/0 ACSR	7.44Y	124.0	0.02	1.01	17.57	8	126	35	96	0.02	0.0	0.990	0.045	5	1	1	34
PL.1451	PL.2221	B	#1/0 ACSR	7.44Y	124.0	0.01	1.02	16.94	7	121	34	96	0.01	0.0	1.013	0.022	28	8	4	33
PL.1452	PL.1451	B	#2 ACSR	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	1.064	0.051	0	0	1	1
PL.1453	PL.1451	B	#1/0 ACSR	7.44Y	124.0	0.01	1.03	12.97	6	93	26	96	0.01	0.0	1.058	0.045	41	11	12	28
PL.1454	PL.1453	B	#1/0 ACSR	7.44Y	124.0	0.01	1.04	7.31	3	52	14	97	0.00	0.0	1.119	0.061	27	7	7	16

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1455	PL.1454	B	#1/0 ACSR	7.44Y	124.0	0.00	1.04	2.02	1	14	4	96	0.00	0.0	1.147	0.028	8	2	3	7
PL.2222	PL.1455	B	#2 ACSR 6/	7.44Y	124.0	0.00	1.04	0.86	0	6	2	95	0.00	0.0	1.208	0.062	0	0	1	4
PL.2223	PL.2222	B	#1/0 ACSR	7.44Y	124.0	0.00	1.04	0.86	0	6	2	95	0.00	0.0	1.293	0.084	6	2	2	3
PL.2224	PL.2223	B	#1/0 ACSR	7.44Y	124.0	0.00	1.04	0.02	0	0	0	100	0.00	0.0	1.379	0.086	0	0	0	1
PL.1458	PL.2224	B	#1/0 ACSR	7.44Y	124.0	0.00	1.04	0.02	0	0	0	100	0.00	0.0	1.491	0.112	0	0	1	1
PL.1456	PL.1454	B	#4 ACSR	7.44Y	124.0	0.00	1.04	1.55	1	11	3	96	0.00	0.0	1.140	0.021	11	3	2	2
PL.1457	PL.1456	B	#4 ACSR	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	1.185	0.045	0	0	0	0
PL.1441	PL.1439	B	8 A (CWC)	7.44Y	124.0	0.00	0.96	1.16	1	8	2	97	0.00	0.0	0.857	0.043	8	2	1	1
PL.1436	PL.1430	B	#4 ACSR	7.44Y	124.1	0.00	0.93	2.35	2	17	5	96	0.00	0.0	0.722	0.027	0	0	0	3
PL.1435	PL.1436	B	#4 ACSR	7.44Y	124.1	0.00	0.94	2.35	2	17	5	96	0.00	0.0	0.750	0.028	4	1	1	3
PL.1437	PL.1435	B	#4 ACSR	7.44Y	124.1	0.00	0.94	1.79	1	13	4	96	0.00	0.0	0.816	0.066	13	4	2	2
PL.1420	PL.2555	B	#4 ACSR	7.45Y	124.1	0.00	0.88	2.35	2	17	5	96	0.00	0.0	0.466	0.013	0	0	0	3
PL.1422	PL.1420	B	#4 ACSR	7.45Y	124.1	0.01	0.88	2.35	2	17	5	96	0.00	0.0	0.539	0.073	0	0	1	3
PL.1423	PL.1422	B	#1/0 ACSR	7.45Y	124.1	0.00	0.89	1.04	0	7	2	96	0.00	0.0	0.594	0.055	7	2	1	1
PL.1424	PL.1422	B	#2 ACSR	7.45Y	124.1	0.00	0.89	1.30	1	9	3	95	0.00	0.0	0.570	0.031	9	3	1	1
PL.3087	Goose Rock	ABC	#4/0 ACSR	7.50Y	125.0	0.00	0.00	85.03	25	1820	591	95	0.05	0.0	0.005	0.005	0	0	0	387
PL.7161	PL.3087	ABC	#4/0 ACSR	7.50Y	125.0	0.00	0.01	85.03	25	1820	591	95	0.01	0.0	0.006	0.001	0	0	0	387
---------- Feeder No. 4 (Schoolhouse F4) Beginning with Device PD.1529 ----------																				
PD.1529	PL.7161	ABC	480VWE	7.50Y	125.0	0.00	0.01	85.03	0	1820	591	95	0.00	0.0	0.006	0.001	0	0	0	387
PL.7162	PD.1529	ABC	#4/0 ACSR	7.50Y	125.0	0.00	0.01	85.03	25	1820	591	95	0.05	0.0	0.011	0.005	0	0	0	387
PL.3992	PL.7162	ABC	#4/0 ACSR	7.49Y	124.9	0.09	0.10	85.03	25	1820	591	95	0.95	0.1	0.110	0.099	0	0	0	387
PL.3490	PL.3992	C	6 A (CWC)	7.49Y	124.9	0.00	0.10	0.41	0	3	1	95	0.00	0.0	0.115	0.005	0	0	0	1
PD.460	PL.3490	C	40QA	7.49Y	124.9	0.00	0.10	0.41	1	3	1	95	0.00	0.0	0.115	0.005	0	0	0	1
PL.3491	PD.460	C	6 A (CWC)	7.49Y	124.9	0.00	0.10	0.41	0	3	1	95	0.00	0.0	0.151	0.037	3	1	1	1
PL.3780	PL.3992	ABC	#4/0 ACSR	7.49Y	124.8	0.07	0.18	84.90	25	1816	588	95	0.75	0.0	0.189	0.078	0	0	0	386
PL.3781	PL.3780	ABC	#4/0 ACSR	7.48Y	124.7	0.08	0.26	84.67	25	1810	586	95	0.83	0.0	0.275	0.087	0	0	0	383
PL.3617	PL.3781	ABC	#4/0 ACSR	7.48Y	124.7	0.09	0.34	74.87	22	1609	487	96	0.80	0.0	0.383	0.107	10	3	1	382
PL.3619	PL.3617	ABC	#4/0 ACSR	7.47Y	124.6	0.08	0.43	74.41	22	1598	483	96	0.76	0.0	0.486	0.103	0	0	0	381
PL.2958	PL.3619	A	#1/0 ACSR	7.47Y	124.6	0.00	0.43	3.51	2	25	7	96	0.00	0.0	0.491	0.005	0	0	0	2

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.458	PL.2958	A	40QA	7.47Y	124.6	0.00	0.43	3.51	9	25	7	96	0.00	0.0	0.491	0.005	0	0	0	2
PL.2959	PD.458	A	#1/0 ACSR	7.47Y	124.6	0.00	0.43	3.51	2	25	7	96	0.00	0.0	0.520	0.029	25	7	2	2
PL.3620	PL.3619	ABC	#4/0 ACSR	7.47Y	124.5	0.05	0.48	73.24	22	1572	475	96	0.49	0.0	0.555	0.069	9	2	4	379
PL.3621	PL.3620	ABC	#4/0 ACSR	7.47Y	124.5	0.02	0.50	72.60	21	1558	470	96	0.18	0.0	0.580	0.026	0	0	1	374
PL.3622	PL.3621	ABC	#4/0 ACSR	7.46Y	124.4	0.13	0.64	72.58	21	1557	470	96	1.19	0.1	0.750	0.169	0	0	0	373
PL.3537	PL.3622	ABC	#4/0 ACSR	7.45Y	124.2	0.14	0.78	72.58	21	1556	467	96	1.27	0.1	0.931	0.181	3	1	1	373
PL.3928	PL.3537	ABC	#4/0 ACSR	7.45Y	124.1	0.13	0.91	72.42	21	1551	464	96	1.21	0.1	1.103	0.172	0	0	0	372
PL.2954	PL.3928	C	#4 ACSR	7.45Y	124.1	0.00	0.91	1.19	1	9	2	98	0.00	0.0	1.108	0.005	0	0	0	1
PD.456	PL.2954	C	40QA	7.45Y	124.1	0.00	0.91	1.19	3	9	2	98	0.00	0.0	1.108	0.005	0	0	0	1
PL.32693	PD.456	C	#2 ACSR	7.45Y	124.1	0.00	0.91	1.19	1	9	2	98	0.00	0.0	1.168	0.060	9	2	1	1
PL.3514	PL.3928	ABC	#4/0 ACSR	7.44Y	124.0	0.14	1.05	72.03	21	1542	460	96	1.22	0.1	1.279	0.176	0	0	0	371
PL.3538	PL.3514	ABC	#4/0 ACSR	7.43Y	123.9	0.04	1.09	72.03	21	1540	458	96	0.36	0.0	1.331	0.052	7	2	1	371
PL.3624	PL.3538	ABC	#4/0 ACSR	7.43Y	123.9	0.05	1.14	70.76	21	1513	450	96	0.47	0.0	1.402	0.071	11	3	1	366
PL.3925	PL.3624	ABC	#4/0 ACSR	7.43Y	123.8	0.06	1.20	70.25	21	1501	446	96	0.48	0.0	1.475	0.073	3	1	1	365
PL.3926	PL.3925	ABC	#4/0 ACSR	7.42Y	123.7	0.08	1.28	70.09	21	1497	444	96	0.74	0.0	1.588	0.112	4	1	1	364
PL.3924	PL.3926	ABC	#4/0 ACSR	7.42Y	123.7	0.06	1.34	69.92	21	1493	442	96	0.51	0.0	1.666	0.079	9	3	1	363
PL.3919	PL.3924	ABC	#4/0 ACSR	7.42Y	123.6	0.07	1.41	69.48	20	1483	438	96	0.57	0.0	1.755	0.089	8	2	2	362
PL.3628	PL.3919	ABC	#4/0 ACSR	7.41Y	123.5	0.12	1.53	68.72	20	1466	433	96	1.04	0.1	1.920	0.165	1	0	1	359
PL.3923	PL.3628	ABC	#4/0 ACSR	7.41Y	123.4	0.05	1.58	68.68	20	1464	431	96	0.41	0.0	1.985	0.065	0	0	0	358
PL.3920	PL.3923	ABC	#4/0 ACSR	7.40Y	123.4	0.04	1.62	68.20	20	1454	427	96	0.30	0.0	2.033	0.048	5	1	1	356
PL.3921	PL.3920	ABC	#4/0 ACSR	7.40Y	123.3	0.04	1.65	67.96	20	1448	425	96	0.33	0.0	2.087	0.054	6	2	1	355
PL.3918	PL.3921	ABC	#4/0 ACSR	7.40Y	123.3	0.05	1.70	67.68	20	1442	423	96	0.42	0.0	2.156	0.069	0	0	0	354
PL.3630	PL.3918	ABC	#1/0 ACSR	7.39Y	123.2	0.10	1.80	67.48	29	1437	421	96	0.99	0.1	2.238	0.082	17	5	2	353
PL.3916	PL.3630	ABC	#1/0 ACSR	7.39Y	123.1	0.08	1.89	66.70	29	1419	415	96	0.82	0.1	2.308	0.070	15	4	3	351
PL.3917	PL.3916	ABC	#4/0 ACSR	7.38Y	123.0	0.06	1.95	66.00	19	1404	410	96	0.53	0.0	2.398	0.090	0	0	0	348
PL.4011	PL.3917	C	#4 ACSR	7.38Y	123.0	0.00	1.95	0.73	1	5	1	98	0.00	0.0	2.403	0.005	0	0	0	3
PD.451	PL.4011	C	40QA	7.38Y	123.0	0.00	1.95	0.73	2	5	1	98	0.00	0.0	2.403	0.005	0	0	0	3
PL.4012	PD.451	C	#4 ACSR	7.38Y	123.0	0.00	1.96	0.73	1	5	1	98	0.00	0.0	2.481	0.078	1	0	1	3
PL.3631	PL.4012	C	#4 ACSR	7.38Y	123.0	0.00	1.96	0.62	0	4	1	97	0.00	0.0	2.558	0.077	4	1	2	2
PL.3515	PL.3917	ABC	#4/0 ACSR	7.38Y	123.0	0.08	2.03	65.76	19	1398	408	96	0.63	0.0	2.508	0.110	5	1	1	345
PL.3915	PL.3515	ABC	#4/0 ACSR	7.37Y	122.9	0.11	2.14	65.52	19	1392	406	96	0.93	0.1	2.670	0.162	0	0	0	344

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.4009	PL.3915	A	#4 ACSR	7.37Y	122.9	0.00	2.14	0.92	1	7	2	96	0.00	0.0	2.674	0.004	0	0	0	1
PD.450	PL.4009	A	40QA	7.37Y	122.9	0.00	2.14	0.92	2	7	2	96	0.00	0.0	2.674	0.004	0	0	0	1
PL.4010	PD.450	A	#4 ACSR	7.37Y	122.9	0.00	2.15	0.92	1	7	2	96	0.00	0.0	2.714	0.040	7	2	1	1
PL.3885	PL.3915	ABC	#4/0 ACSR	7.37Y	122.8	0.07	2.21	65.22	19	1385	402	96	0.54	0.0	2.765	0.095	8	2	1	343
PL.3886	PL.3885	ABC	#4/0 ACSR	7.36Y	122.7	0.04	2.25	64.82	19	1376	399	96	0.33	0.0	2.824	0.059	0	0	0	342
PL.3887	PL.3886	ABC	#4/0 ACSR	7.36Y	122.7	0.03	2.28	64.82	19	1376	398	96	0.23	0.0	2.866	0.042	23	6	3	342
PL.3888	PL.3887	ABC	#4/0 ACSR	7.36Y	122.7	0.06	2.34	63.74	19	1352	392	96	0.45	0.0	2.950	0.083	9	3	2	339
PL.3889	PL.3888	ABC	#4/0 ACSR	7.36Y	122.6	0.07	2.40	63.30	19	1343	388	96	0.51	0.0	3.046	0.096	0	0	0	337
PL.3999	PL.3889	A	#2 ACSR	7.36Y	122.6	0.00	2.40	1.10	1	8	2	97	0.00	0.0	3.050	0.005	0	0	0	2
PD.445	PL.3999	A	40QA	7.36Y	122.6	0.00	2.40	1.10	3	8	2	97	0.00	0.0	3.050	0.005	0	0	0	2
PL.4000	PD.445	A	#2 ACSR	7.36Y	122.6	0.00	2.40	1.10	1	8	2	97	0.00	0.0	3.066	0.016	8	2	2	2
PL.3854	PL.3889	ABC	#4/0 ACSR	7.35Y	122.5	0.05	2.46	62.93	19	1334	385	96	0.43	0.0	3.128	0.082	16	4	5	335
PL.3997	PL.3854	A	#4 ACSR	7.35Y	122.5	0.00	2.46	2.71	2	19	5	97	0.00	0.0	3.132	0.005	0	0	0	4
PD.444	PL.3997	A	40QA	7.35Y	122.5	0.00	2.46	2.71	7	19	5	97	0.00	0.0	3.132	0.005	0	0	0	4
PL.3998	PD.444	A	#4 ACSR	7.35Y	122.5	0.00	2.46	2.71	2	19	5	97	0.00	0.0	3.195	0.063	19	5	4	4
PL.3880	PL.3854	ABC	#4/0 ACSR	7.35Y	122.5	0.05	2.51	61.29	18	1299	375	96	0.40	0.0	3.206	0.079	0	0	0	326
PL.3882	PL.3880	ABC	#4/0 ACSR	7.35Y	122.5	0.03	2.54	61.29	18	1299	374	96	0.24	0.0	3.256	0.049	12	3	2	326
PL.3883	PL.3882	ABC	#4/0 ACSR	7.35Y	122.4	0.03	2.57	60.74	18	1287	370	96	0.22	0.0	3.299	0.044	8	2	1	324
PL.3884	PL.3883	ABC	#4/0 ACSR	7.34Y	122.4	0.04	2.61	60.36	18	1278	368	96	0.28	0.0	3.356	0.057	0	0	0	323
PL.3881	PL.3884	ABC	#4/0 ACSR	7.34Y	122.4	0.03	2.63	60.36	18	1278	367	96	0.21	0.0	3.398	0.042	2	1	2	323
PL.3633	PL.3881	ABC	#4/0 ACSR	7.34Y	122.3	0.04	2.67	60.27	18	1276	366	96	0.31	0.0	3.461	0.063	0	0	0	321
PL.3993	PL.3633	B	#1/0 ACSR	7.34Y	122.3	0.00	2.67	5.61	2	40	11	96	0.00	0.0	3.466	0.005	0	0	0	12
PD.441	PL.3993	B	40QA	7.34Y	122.3	0.00	2.67	5.61	14	40	11	96	0.00	0.0	3.466	0.005	0	0	0	12
PL.3994	PD.441	B	#1/0 ACSR	7.34Y	122.3	0.00	2.68	5.61	2	40	11	96	0.00	0.0	3.490	0.024	8	2	2	12
PL.3909	PL.3994	B	#1/0 ACSR	7.34Y	122.3	0.01	2.69	4.45	2	31	9	96	0.00	0.0	3.590	0.100	0	0	0	10
PL.3634	PL.3909	B	#2 ACSR	7.34Y	122.3	0.00	2.69	1.17	1	8	2	97	0.00	0.0	3.647	0.057	0	0	0	1
PL.3827	PL.3634	B	#2 ACSR	7.34Y	122.3	0.00	2.69	1.17	1	8	2	97	0.00	0.0	3.774	0.126	8	2	1	1
PL.3516	PL.3909	B	#1/0 ACSR	7.34Y	122.3	0.01	2.69	3.28	1	23	6	97	0.00	0.0	3.674	0.084	0	0	0	9
PL.3910	PL.3516	B	#1/0 ACSR	7.34Y	122.3	0.01	2.70	3.28	1	23	6	97	0.00	0.0	3.802	0.127	16	5	5	9
PL.3911	PL.3910	B	#1/0 ACSR	7.34Y	122.3	0.00	2.70	0.96	0	7	2	96	0.00	0.0	3.853	0.051	7	2	4	4
PL.3912	PL.3911	B	#1/0 ACSR	7.34Y	122.3	0.00	2.70	0.00	0	0	0	100	0.00	0.0	3.932	0.080	0	0	0	0

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3913	PL.3912	B	#1/0 ACSR	7.34Y	122.3	0.00	2.70	0.00	0	0	0	100	0.00	0.0	4.093	0.161	0	0	0	0
PL.3850	PL.3633	ABC	#4/0 ACSR	7.34Y	122.3	0.05	2.72	58.40	17	1236	355	96	0.33	0.0	3.535	0.073	4	1	4	309
PL.3995	PL.3850	C	#2 ACSR	7.34Y	122.3	0.00	2.72	0.52	0	4	1	97	0.00	0.0	3.539	0.005	0	0	0	1
PD.442	PL.3995	C	40QA	7.34Y	122.3	0.00	2.72	0.52	1	4	1	97	0.00	0.0	3.539	0.005	0	0	0	1
PL.3996	PD.442	C	#2 ACSR	7.34Y	122.3	0.00	2.72	0.52	0	4	1	97	0.00	0.0	3.555	0.016	4	1	1	1
PL.3907	PL.3850	ABC	#4/0 ACSR	7.34Y	122.3	0.03	2.75	58.02	17	1228	352	96	0.18	0.0	3.576	0.041	10	3	4	304
PL.3908	PL.3907	ABC	#4/0 ACSR	7.33Y	122.2	0.02	2.77	57.56	17	1218	349	96	0.17	0.0	3.615	0.039	0	0	0	300
PL.3824	PL.3908	ABC	#4/0 ACSR	7.33Y	122.2	0.00	2.77	57.56	17	1217	349	96	0.01	0.0	3.617	0.001	0	0	0	300
RG.5	PL.3824	ABC	114.3 KVA	7.47Y	124.6	-2.34	0.44	57.56	38	1217	349	96	percent Boost= 1.88 Tap= 3.0							300
PL.3825	RG.5	ABC	#4/0 ACSR	7.47Y	124.6	0.00	0.44	56.48	17	1217	349	96	0.01	0.0	3.618	0.001	0	0	0	300
PL.3849	PL.3825	ABC	#4/0 ACSR	7.47Y	124.5	0.02	0.46	56.48	17	1217	349	96	0.16	0.0	3.657	0.039	24	7	3	300
PL.4028	PL.3849	C	#2 ACSR	7.47Y	124.5	0.00	0.46	2.25	1	16	4	97	0.00	0.0	3.661	0.005	0	0	0	7
PD.482	PL.4028	C	40QA	7.47Y	124.5	0.00	0.46	2.25	6	16	4	97	0.00	0.0	3.661	0.005	0	0	0	7
PL.4029	PD.482	C	#2 ACSR	7.47Y	124.5	0.00	0.46	2.25	1	16	4	97	0.00	0.0	3.720	0.058	16	4	7	7
PL.4007	PL.3849	A	#4 ACSR	7.47Y	124.5	0.00	0.46	2.19	2	16	4	97	0.00	0.0	3.661	0.005	0	0	0	3
PD.449	PL.4007	A	40QA	7.47Y	124.5	0.00	0.46	2.19	5	16	4	97	0.00	0.0	3.661	0.005	0	0	0	3
PL.4008	PD.449	A	#4 ACSR	7.47Y	124.5	0.00	0.46	2.19	2	16	4	97	0.00	0.0	3.698	0.037	16	4	3	3
PL.4048	PL.3849	ABC	#4/0 ACSR	7.47Y	124.5	0.02	0.48	53.89	16	1161	333	96	0.15	0.0	3.694	0.038	0	0	0	287
PD.492	PL.4048	ABC	100L	7.47Y	124.5	0.00	0.48	53.89	54	1161	333	96	0.00	0.0	3.694	0.038	0	0	0	287
PL.4049	PD.492	ABC	#4/0 ACSR	7.47Y	124.5	0.02	0.51	53.89	16	1161	333	96	0.17	0.0	3.738	0.043	10	3	2	287
PL.4005	PL.4049	A	#2 ACSR	7.47Y	124.5	0.00	0.51	0.32	0	2	1	89	0.00	0.0	3.742	0.005	0	0	0	1
PD.448	PL.4005	A	40QA	7.47Y	124.5	0.00	0.51	0.32	1	2	1	89	0.00	0.0	3.742	0.005	0	0	0	1
PL.4006	PD.448	A	#2 ACSR	7.47Y	124.5	0.00	0.51	0.32	0	2	1	89	0.00	0.0	3.798	0.056	2	1	1	1
PL.4026	PL.4049	ABC	#4/0 ACSR	7.47Y	124.4	0.06	0.56	53.30	16	1148	329	96	0.38	0.0	3.838	0.101	0	0	0	284
PL.4027	PL.4026	ABC	#4/0 ACSR	7.47Y	124.4	0.00	0.57	53.30	16	1148	328	96	0.02	0.0	3.843	0.004	14	4	4	284
PL.4042	PL.4027	C	#1/0 ACSR	7.47Y	124.4	0.00	0.57	27.64	12	199	56	96	0.00	0.0	3.845	0.003	0	0	0	51
PD.489	PL.4042	C	50L	7.47Y	124.4	0.00	0.57	27.64	55	199	56	96	0.00	0.0	3.845	0.003	0	0	0	51
PL.4043	PD.489	C	#1/0 ACSR	7.46Y	124.4	0.03	0.59	27.64	12	199	56	96	0.03	0.0	3.887	0.042	0	0	0	51
PL.3517	PL.4043	C	#1/0 ACSR	7.46Y	124.3	0.06	0.66	26.68	12	192	54	96	0.08	0.0	3.987	0.100	0	0	0	49
PL.3539	PL.3517	C	#1/0 ACSR	7.46Y	124.3	0.09	0.75	26.68	12	192	54	96	0.11	0.1	4.131	0.144	0	0	0	49
PL.3637	PL.3539	C	#2 ACSR	7.46Y	124.3	0.00	0.75	0.40	0	3	1	95	0.00	0.0	4.165	0.034	3	1	1	1

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3636	PL.3539	C	#1/0 ACSR	7.45Y	124.2	0.05	0.79	26.28	11	189	53	96	0.06	0.0	4.206	0.075	3	1	2	48
PL.3640	PL.3636	C	#1/0 ACSR	7.45Y	124.2	0.04	0.83	25.44	11	183	51	96	0.05	0.0	4.280	0.074	4	1	1	43
PL.3641	PL.3640	C	#1/0 ACSR	7.45Y	124.1	0.04	0.87	24.84	11	178	50	96	0.04	0.0	4.345	0.065	0	0	0	42
PL.3878	PL.3641	C	#1/0 ACSR	7.45Y	124.1	0.01	0.88	8.30	4	60	16	97	0.00	0.0	4.415	0.071	15	4	3	10
PL.3879	PL.3878	C	#1/0 ACSR	7.45Y	124.1	0.01	0.89	6.20	3	44	12	96	0.00	0.0	4.487	0.071	6	2	1	7
PL.4517	PL.3879	C	#2 ACSR	7.45Y	124.1	0.01	0.90	5.39	3	39	11	96	0.00	0.0	4.551	0.064	0	0	0	6
PL.4518	PL.4517	C	#2 ACSR	7.45Y	124.1	0.01	0.91	4.31	2	31	9	96	0.00	0.0	4.639	0.088	15	4	2	5
PL.3865	PL.4518	C	#2 ACSR	7.45Y	124.1	0.00	0.92	2.20	1	16	4	97	0.00	0.0	4.692	0.053	9	2	2	3
PL.3863	PL.3865	C	#2 ACSR	7.45Y	124.1	0.00	0.92	0.95	1	7	2	96	0.00	0.0	4.740	0.048	7	2	1	1
PL.4516	PL.4517	C	#1/0 ACSR	7.45Y	124.1	0.00	0.91	1.08	0	8	2	97	0.00	0.0	4.879	0.328	8	2	1	1
PL.3642	PL.3641	C	#1/0 ACSR	7.44Y	124.1	0.06	0.93	16.54	7	119	33	96	0.04	0.0	4.491	0.147	0	0	0	32
PL.3541	PL.3642	C	#1/0 ACSR	7.44Y	124.0	0.04	0.97	16.54	7	119	33	96	0.03	0.0	4.604	0.113	0	0	0	32
PL.3542	PL.3541	C	#1/0 ACSR	7.44Y	124.0	0.05	1.02	16.54	7	119	33	96	0.04	0.0	4.740	0.136	0	0	0	32
PL.3644	PL.3542	C	#2 ACSR	7.44Y	124.0	0.00	1.02	0.12	0	1	0	100	0.00	0.0	4.840	0.101	0	0	0	2
PL.3661	PL.3644	C	#2 ACSR	7.44Y	124.0	0.00	1.02	0.11	0	1	0	100	0.00	0.0	4.958	0.117	0	0	0	1
PL.3544	PL.3661	C	#2 ACSR	7.44Y	124.0	0.00	1.02	0.11	0	1	0	100	0.00	0.0	5.102	0.144	0	0	0	1
PL.3545	PL.3544	C	#2 ACSR	7.44Y	124.0	0.00	1.02	0.11	0	1	0	100	0.00	0.0	5.188	0.086	0	0	0	1
PL.3830	PL.3545	C	#2 ACSR	7.44Y	124.0	0.00	1.03	0.11	0	1	0	100	0.00	0.0	5.358	0.170	0	0	0	1
PL.4521	PL.3830	C	#2 ACSR	7.44Y	124.0	0.00	1.03	0.11	0	1	0	100	0.00	0.0	5.504	0.146	0	0	0	1
PL.4522	PL.4521	C	#2 ACSR	7.44Y	124.0	0.00	1.03	0.00	0	0	0	100	0.00	0.0	5.522	0.019	0	0	0	0
PL.4520	PL.4521	C	#1/0 ACSR	7.44Y	124.0	0.00	1.03	0.11	0	1	0	100	0.00	0.0	5.600	0.096	1	0	1	1
PL.3662	PL.3644	C	#1/0 ACSR	7.44Y	124.0	0.00	1.02	0.01	0	0	0	100	0.00	0.0	4.892	0.052	0	0	1	1
PL.3871	PL.3542	C	#1/0 ACSR	7.44Y	124.0	0.02	1.04	16.36	7	117	33	96	0.01	0.0	4.782	0.043	1	0	1	29
PL.3872	PL.3871	C	#1/0 ACSR	7.44Y	123.9	0.04	1.08	16.17	7	116	32	96	0.03	0.0	4.885	0.103	0	0	0	28
PL.3548	PL.3872	C	#1/0 ACSR	7.43Y	123.9	0.05	1.12	16.17	7	116	32	96	0.04	0.0	5.012	0.127	0	0	0	28
PL.3549	PL.3548	C	#1/0 ACSR	7.43Y	123.8	0.04	1.17	16.17	7	116	32	96	0.03	0.0	5.128	0.116	0	0	0	28
PL.3550	PL.3549	C	#1/0 ACSR	7.43Y	123.8	0.05	1.22	16.17	7	116	32	96	0.04	0.0	5.258	0.130	0	0	0	28
PL.3873	PL.3550	C	#1/0 ACSR	7.43Y	123.8	0.02	1.24	16.17	7	116	32	96	0.02	0.0	5.327	0.069	10	3	1	28
PL.3874	PL.3873	C	#1/0 ACSR	7.42Y	123.7	0.01	1.25	14.81	6	106	29	96	0.01	0.0	5.360	0.032	1	0	1	27
PL.3875	PL.3874	C	#1/0 ACSR	7.42Y	123.7	0.05	1.31	14.72	6	105	29	96	0.04	0.0	5.514	0.155	2	1	1	26
PL.3876	PL.3875	C	#1/0 ACSR	7.42Y	123.7	0.01	1.31	14.44	6	103	29	96	0.01	0.0	5.541	0.026	0	0	0	25

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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3877	PL.3876	C	#1/0 ACSR	7.42Y	123.7	0.03	1.35	14.44	6	103	29	96	0.02	0.0	5.640	0.099	2	1	1	25
PL.3855	PL.3877	C	#1/0 ACSR	7.42Y	123.6	0.03	1.38	14.13	6	101	28	96	0.02	0.0	5.737	0.097	0	0	0	23
PL.3782	PL.3855	C	#1/0 ACSR	7.41Y	123.6	0.04	1.42	14.13	6	101	28	96	0.03	0.0	5.859	0.122	0	0	0	23
PL.3783	PL.3782	C	#1/0 ACSR	7.41Y	123.5	0.05	1.46	14.13	6	101	28	96	0.03	0.0	6.003	0.144	8	2	2	23
PL.3647	PL.3783	C	#1/0 ACSR	7.41Y	123.5	0.03	1.49	12.00	5	86	24	96	0.02	0.0	6.112	0.109	0	0	0	20
PL.3649	PL.3647	C	#4 ACSR	7.41Y	123.5	0.00	1.50	2.24	2	16	4	97	0.00	0.0	6.140	0.028	5	2	3	8
PL.3650	PL.3649	C	#4 ACSR	7.41Y	123.5	0.00	1.50	1.48	1	11	3	96	0.00	0.0	6.181	0.041	2	0	1	5
PL.3858	PL.3650	C	#4 ACSR	7.41Y	123.5	0.00	1.50	1.24	1	9	2	98	0.00	0.0	6.271	0.090	0	0	0	4
PL.3859	PL.3858	C	#4 ACSR	7.41Y	123.5	0.00	1.50	1.24	1	9	2	98	0.00	0.0	6.276	0.005	4	1	1	4
PL.3658	PL.3859	C	#1/0 ACSR	7.41Y	123.5	0.00	1.50	0.61	0	4	1	97	0.00	0.0	6.281	0.005	0	0	0	3
PD.443	PL.3658	C	40QA	7.41Y	123.5	0.00	1.50	0.61	2	4	1	97	0.00	0.0	6.281	0.005	0	0	0	3
PL.3518	PD.443	C	#1/0 ACSR	7.41Y	123.5	0.00	1.50	0.00	0	0	0	100	0.00	0.0	6.326	0.046	0	0	0	0
PL.3860	PD.443	C	#4 ACSR	7.41Y	123.5	0.00	1.51	0.61	0	4	1	97	0.00	0.0	6.290	0.010	0	0	0	3
PL.3657	PL.3860	C	#4 ACSR	7.41Y	123.5	0.00	1.51	0.61	0	4	1	97	0.00	0.0	6.370	0.080	0	0	0	3
PL.3655	PL.3657	C	#4 ACSR	7.41Y	123.5	0.00	1.51	0.61	0	4	1	97	0.00	0.0	6.511	0.140	0	0	0	3
PL.3784	PL.3655	C	#4 ACSR	7.41Y	123.5	0.00	1.51	0.61	0	4	1	97	0.00	0.0	6.574	0.064	0	0	0	3
PL.3666	PL.3784	C	#4 ACSR	7.41Y	123.5	0.00	1.51	0.00	0	0	0	100	0.00	0.0	6.616	0.041	0	0	1	1
PL.3519	PL.3784	C	#4 ACSR	7.41Y	123.5	0.00	1.52	0.61	0	4	1	97	0.00	0.0	6.731	0.157	0	0	0	2
PL.3785	PL.3519	C	#4 ACSR	7.41Y	123.5	0.00	1.52	0.61	0	4	1	97	0.00	0.0	6.835	0.104	0	0	0	2
PL.3828	PL.3785	C	#4 ACSR	7.41Y	123.5	0.00	1.52	0.61	0	4	1	97	0.00	0.0	6.941	0.106	0	0	0	2
PL.3786	PL.3828	C	#4 ACSR	7.41Y	123.5	0.00	1.52	0.61	0	4	1	97	0.00	0.0	7.026	0.086	3	1	1	2
PL.3656	PL.3786	C	#4 ACSR	7.41Y	123.5	0.00	1.53	0.18	0	1	0	100	0.00	0.0	7.179	0.153	0	0	0	1
PL.3659	PL.3656	C	#4 ACSR	7.41Y	123.5	0.00	1.53	0.18	0	1	0	100	0.00	0.0	7.243	0.064	1	0	1	1
PL.3929	PL.3647	C	#1/0 ACSR	7.41Y	123.5	0.01	1.51	9.76	4	70	19	97	0.01	0.0	6.174	0.062	0	0	0	12
PL.3930	PL.3929	C	#1/0 ACSR	7.41Y	123.5	0.01	1.52	9.76	4	70	19	97	0.01	0.0	6.222	0.049	0	0	0	12
PL.3651	PL.3930	C	#4 ACSR	7.41Y	123.5	0.00	1.52	0.35	0	2	1	89	0.00	0.0	6.261	0.038	2	1	1	1
PL.3867	PL.3930	C	#1/0 ACSR	7.41Y	123.5	0.02	1.54	9.41	4	67	19	96	0.01	0.0	6.300	0.078	9	2	2	11
PL.3868	PL.3867	C	#1/0 ACSR	7.41Y	123.5	0.01	1.54	8.17	4	58	16	96	0.00	0.0	6.334	0.034	10	3	2	9
PL.3866	PL.3868	C	#1/0 ACSR	7.41Y	123.4	0.01	1.55	6.71	3	48	13	97	0.00	0.0	6.405	0.071	0	0	0	7
PL.3869	PL.3866	C	#1/0 ACSR	7.41Y	123.4	0.01	1.56	5.65	2	40	11	96	0.00	0.0	6.461	0.056	19	5	2	6
PL.3870	PL.3869	C	#1/0 ACSR	7.41Y	123.4	0.00	1.56	3.02	1	22	6	96	0.00	0.0	6.550	0.089	10	3	2	4

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3653	PL.3870	C	#4 ACSR	7.41Y	123.4	0.00	1.56	1.03	1	7	2	96	0.00	0.0	6.577	0.027	7	2	1	1
PL.3667	PL.3870	C	#4 ACSR	7.41Y	123.4	0.00	1.56	0.60	0	4	1	97	0.00	0.0	6.650	0.100	4	1	1	1
PL.3652	PL.3866	C	#1/0 ACSR	7.41Y	123.4	0.00	1.55	1.06	0	8	2	97	0.00	0.0	6.433	0.028	8	2	1	1
PL.3648	PL.3783	C	#2 ACSR	7.41Y	123.5	0.00	1.47	0.95	1	7	2	96	0.00	0.0	6.071	0.068	7	2	1	1
PL.3645	PL.3877	C	#4 ACSR	7.42Y	123.7	0.00	1.35	0.01	0	0	0	100	0.00	0.0	5.699	0.059	0	0	1	1
PL.3643	PL.3542	C	#2 ACSR	7.44Y	124.0	0.00	1.02	0.06	0	0	0	100	0.00	0.0	4.800	0.060	0	0	1	1
PL.3638	PL.3636	C	#2 ACSR	7.45Y	124.2	0.00	0.79	0.20	0	1	0	100	0.00	0.0	4.255	0.049	1	0	1	1
PL.3639	PL.3636	C	#2 ACSR	7.45Y	124.2	0.00	0.79	0.18	0	1	0	100	0.00	0.0	4.255	0.049	1	0	2	2
PL.28283	PL.4043	C	#1/0 ACSR	7.46Y	124.4	0.00	0.59	0.95	0	7	2	96	0.00	0.0	3.909	0.022	0	0	1	2
PL.28284	PL.28283	C	#1/0 ACSR	7.46Y	124.4	0.00	0.60	0.90	0	6	2	95	0.00	0.0	3.969	0.060	6	2	1	1
PL.4024	PL.4027	C	#1/0 ACSR	7.47Y	124.4	0.00	0.57	0.59	0	4	1	97	0.00	0.0	3.847	0.005	0	0	0	1
PD.481	PL.4024	C	50H	7.47Y	124.4	0.00	0.57	0.59	1	4	1	97	0.00	0.0	3.847	0.005	0	0	0	1
PL.4025	PD.481	C	#1/0 ACSR	7.47Y	124.4	0.00	0.57	0.59	0	4	1	97	0.00	0.0	3.864	0.016	4	1	1	1
PL.3905	PL.4027	ABC	#4/0 ACSR	7.46Y	124.4	0.03	0.60	43.25	13	931	268	96	0.16	0.0	3.907	0.064	3	1	1	228
PL.3906	PL.3905	ABC	#3/0 ACSR	7.46Y	124.3	0.08	0.68	43.13	14	928	267	96	0.47	0.1	4.057	0.150	0	0	0	227
PL.3832	PL.3906	ABC	#4/0 ACSR	7.46Y	124.3	0.05	0.72	43.13	13	928	266	96	0.26	0.0	4.160	0.103	0	0	0	227
PL.3788	PL.3832	ABC	#4/0 ACSR	7.45Y	124.2	0.08	0.81	43.13	13	928	265	96	0.44	0.0	4.337	0.177	0	0	0	227
PL.3790	PL.3788	ABC	#4/0 ACSR	7.45Y	124.1	0.08	0.88	43.13	13	927	265	96	0.42	0.0	4.505	0.168	0	0	0	227
PL.3833	PL.3790	ABC	#4/0 ACSR	7.44Y	124.1	0.05	0.94	43.13	13	927	264	96	0.29	0.0	4.623	0.118	0	0	0	227
PL.3520	PL.3833	ABC	#4/0 ACSR	7.44Y	124.0	0.08	1.02	42.96	13	923	262	96	0.44	0.0	4.800	0.177	0	0	0	225
PL.3791	PL.3520	ABC	#4/0 ACSR	7.43Y	123.9	0.09	1.10	42.96	13	922	262	96	0.46	0.0	4.987	0.187	0	0	0	225
PL.3779	PL.3791	ABC	#4/0 ACSR	7.43Y	123.8	0.10	1.21	42.96	13	922	261	96	0.55	0.1	5.212	0.225	0	0	0	225
PL.4003	PL.3779	C	#2 ACSR	7.43Y	123.8	0.00	1.21	0.34	0	2	1	89	0.00	0.0	5.216	0.005	0	0	0	2
PD.447	PL.4003	C	40QA	7.43Y	123.8	0.00	1.21	0.34	1	2	1	89	0.00	0.0	5.216	0.005	0	0	0	2
PL.4004	PD.447	C	#2 ACSR	7.43Y	123.8	0.00	1.21	0.34	0	2	1	89	0.00	0.0	5.239	0.022	2	1	2	2
PL.4040	PL.3779	B	6 A (CWC)	7.42Y	123.6	0.16	1.37	32.59	23	233	65	96	0.28	0.1	5.321	0.110	0	0	0	62
PD.488	PL.4040	B	70L	7.42Y	123.6	0.00	1.37	32.59	47	233	65	96	0.00	0.0	5.321	0.110	0	0	0	62
PL.4041	PD.488	B	6 A (CWC)	7.40Y	123.4	0.24	1.61	32.59	23	233	65	96	0.42	0.2	5.483	0.162	0	0	0	62
PL.3890	PL.4041	B	6 A (CWC)	7.40Y	123.3	0.06	1.67	32.59	23	232	65	96	0.10	0.0	5.522	0.040	3	1	1	62
PL.3891	PL.3890	B	6 A (CWC)	7.39Y	123.2	0.11	1.78	32.14	23	229	64	96	0.18	0.1	5.594	0.072	0	0	0	61
PL.3892	PL.3891	B	6 A (CWC)	7.39Y	123.2	0.03	1.80	32.14	23	229	64	96	0.04	0.0	5.612	0.018	7	2	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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3664	PL.3892	B	6 A (CWC)	7.39Y	123.2	0.00	1.80	1.79	1	13	4	96	0.00	0.0	5.664	0.052	13	4	2	2
PL.3665	PL.3892	B	6 A (CWC)	7.38Y	123.0	0.22	2.02	29.37	21	209	58	96	0.34	0.2	5.772	0.160	0	0	0	57
PL.3893	PL.3665	B	6 A (CWC)	7.38Y	123.0	0.01	2.03	4.92	4	35	10	96	0.00	0.0	5.815	0.043	6	2	1	9
PL.3894	PL.3893	B	6 A (CWC)	7.38Y	123.0	0.02	2.04	4.04	3	29	8	96	0.00	0.0	5.910	0.096	0	0	0	8
PL.3671	PL.3894	B	6 A (CWC)	7.38Y	122.9	0.01	2.05	3.64	3	26	7	97	0.00	0.0	5.976	0.066	19	5	5	7
PL.3673	PL.3671	B	#1/0 ACSR	7.38Y	122.9	0.00	2.05	0.93	0	7	2	96	0.00	0.0	6.002	0.026	7	2	2	2
PL.3672	PL.3894	B	6 A (CWC)	7.38Y	123.0	0.00	2.04	0.40	0	3	1	95	0.00	0.0	5.981	0.070	3	1	1	1
PL.3670	PL.3665	B	6 A (CWC)	7.37Y	122.8	0.15	2.17	24.45	17	174	48	96	0.20	0.1	5.907	0.135	0	0	0	48
PL.3674	PL.3670	B	6 A (CWC)	7.37Y	122.8	0.02	2.19	4.50	3	32	9	96	0.00	0.0	5.994	0.087	5	1	1	9
PL.3675	PL.3674	B	6 A (CWC)	7.37Y	122.8	0.00	2.19	0.52	0	4	1	97	0.00	0.0	6.002	0.008	0	0	0	1
PL.3677	PL.3675	B	6 A (CWC)	7.37Y	122.8	0.00	2.19	0.52	0	4	1	97	0.00	0.0	6.064	0.062	4	1	1	1
PL.3676	PL.3674	B	#2 ACSR	7.37Y	122.8	0.00	2.19	3.27	2	23	6	97	0.00	0.0	6.019	0.024	17	5	5	7
PL.3678	PL.3676	B	#1/0 ACSR	7.37Y	122.8	0.00	2.19	0.91	0	6	2	95	0.00	0.0	6.068	0.049	6	2	2	2
PL.3679	PL.3670	B	6 A (CWC)	7.36Y	122.7	0.10	2.27	19.95	14	142	39	96	0.11	0.1	6.022	0.115	0	0	0	39
PL.3901	PL.3679	B	6 A (CWC)	7.36Y	122.6	0.11	2.38	19.95	14	142	39	96	0.11	0.1	6.142	0.120	2	1	1	39
PL.3902	PL.3901	B	6 A (CWC)	7.36Y	122.6	0.02	2.40	19.65	14	139	39	96	0.02	0.0	6.167	0.024	1	0	1	38
PL.3680	PL.3902	B	6 A (CWC)	7.35Y	122.6	0.03	2.43	6.51	5	46	13	96	0.01	0.0	6.283	0.116	20	5	4	14
PL.3704	PL.3680	B	#2 ACSR	7.35Y	122.6	0.00	2.43	0.86	0	6	2	95	0.00	0.0	6.306	0.022	6	2	4	4
PL.3705	PL.3680	B	#4 ACSR	7.35Y	122.6	0.00	2.43	1.08	1	8	2	97	0.00	0.0	6.360	0.077	8	2	3	3
PL.3706	PL.3705	B	#4 ACSR	7.35Y	122.6	0.00	2.43	0.00	0	0	0	100	0.00	0.0	6.396	0.037	0	0	0	0
PL.3903	PL.3680	B	6 A (CWC)	7.35Y	122.6	0.00	2.44	1.77	1	13	3	97	0.00	0.0	6.343	0.060	5	1	1	3
PL.3904	PL.3903	B	6 A (CWC)	7.35Y	122.6	0.00	2.44	1.02	1	7	2	96	0.00	0.0	6.378	0.035	0	0	0	2
PL.3707	PL.3904	B	6 A (CWC)	7.35Y	122.6	0.00	2.44	0.68	0	5	1	98	0.00	0.0	6.516	0.138	5	1	1	1
PL.3708	PL.3904	B	#2 ACSR	7.35Y	122.6	0.00	2.44	0.34	0	2	1	89	0.00	0.0	6.407	0.029	2	1	1	1
PL.3846	PL.3902	B	6 A (CWC)	7.35Y	122.6	0.04	2.44	12.97	9	92	25	97	0.03	0.0	6.235	0.068	5	1	2	23
PL.3682	PL.3846	B	#4 ACSR	7.35Y	122.6	0.00	2.45	1.05	1	7	2	96	0.00	0.0	6.289	0.054	2	1	2	3
PL.3683	PL.3682	B	#4 ACSR	7.35Y	122.6	0.00	2.45	0.70	1	5	1	98	0.00	0.0	6.332	0.043	5	1	1	1
PL.3681	PL.3846	B	6 A (CWC)	7.35Y	122.5	0.04	2.49	11.21	8	79	22	96	0.02	0.0	6.324	0.089	9	3	3	18
PL.3685	PL.3681	B	6 A (CWC)	7.35Y	122.5	0.04	2.53	9.89	7	70	19	97	0.02	0.0	6.410	0.085	0	0	0	15
PL.3686	PL.3685	B	6 A (CWC)	7.35Y	122.5	0.01	2.53	9.89	7	70	19	97	0.00	0.0	6.429	0.019	0	0	0	15
PL.3899	PL.3686	B	6 A (CWC)	7.35Y	122.5	0.00	2.54	2.27	2	16	4	97	0.00	0.0	6.468	0.039	0	0	1	5

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3900	PL.3899	B	6 A (CWC)	7.35Y	122.4	0.01	2.55	2.20	2	16	4	97	0.00	0.0	6.606	0.138	0	0	0	4
PL.3898	PL.3900	B	6 A (CWC)	7.35Y	122.4	0.01	2.56	2.20	2	16	4	97	0.00	0.0	6.709	0.103	7	2	2	4
PL.3897	PL.3898	B	6 A (CWC)	7.35Y	122.4	0.00	2.56	1.26	1	9	2	98	0.00	0.0	6.810	0.101	7	2	1	2
PL.3710	PL.3897	B	#4 ACSR	7.35Y	122.4	0.00	2.56	0.29	0	2	1	89	0.00	0.0	6.864	0.054	2	1	1	1
PL.3687	PL.3686	B	#2 ACSR	7.35Y	122.4	0.03	2.56	7.62	4	54	15	96	0.01	0.0	6.535	0.106	0	0	0	10
PL.3709	PL.3687	B	6 A (CWC)	7.34Y	122.4	0.06	2.62	7.62	5	54	15	96	0.02	0.0	6.695	0.161	0	0	0	10
PL.3689	PL.3709	B	6 A (CWC)	7.34Y	122.4	0.01	2.63	2.54	2	18	5	96	0.00	0.0	6.786	0.090	0	0	0	4
PL.3694	PL.3689	B	6 A (CWC)	7.34Y	122.4	0.02	2.64	2.54	2	18	5	96	0.00	0.0	6.936	0.150	0	0	0	4
PL.3793	PL.3694	B	6 A (CWC)	7.34Y	122.3	0.01	2.65	2.54	2	18	5	96	0.00	0.0	7.007	0.071	0	0	0	4
PL.3695	PL.3793	B	6 A (CWC)	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	7.048	0.042	0	0	0	0
PL.2273	PL.3695	B	6 A (CWC)	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	7.053	0.005	0	0	0	0
PL.3703	PL.3793	B	6 A (CWC)	7.34Y	122.3	0.01	2.67	2.54	2	18	5	96	0.00	0.0	7.120	0.114	0	0	0	4
PL.3701	PL.3703	B	6 A (CWC)	7.34Y	122.3	0.00	2.67	1.99	1	14	4	96	0.00	0.0	7.174	0.054	11	3	1	3
PL.3699	PL.3701	B	6 A (CWC)	7.34Y	122.3	0.00	2.67	0.49	0	3	1	95	0.00	0.0	7.206	0.033	0	0	0	2
PL.3697	PL.3699	B	6 A (CWC)	7.34Y	122.3	0.00	2.67	0.19	0	1	0	100	0.00	0.0	7.259	0.052	1	0	1	1
PL.3700	PL.3699	B	#4 ACSR	7.34Y	122.3	0.00	2.67	0.30	0	2	1	89	0.00	0.0	7.219	0.013	0	0	0	1
PL.3698	PL.3700	B	6 A (CWC)	7.34Y	122.3	0.00	2.67	0.30	0	2	1	89	0.00	0.0	7.253	0.034	2	1	1	1
PL.3702	PL.3703	B	#4 ACSR	7.34Y	122.3	0.00	2.67	0.56	0	4	1	97	0.00	0.0	7.188	0.067	4	1	1	1
PL.3690	PL.3709	B	#1/0 ACSR	7.34Y	122.4	0.01	2.62	5.07	2	36	10	96	0.00	0.0	6.766	0.070	0	0	0	6
PL.3522	PL.3690	B	#1/0 ACSR	7.34Y	122.4	0.00	2.63	2.72	1	19	5	97	0.00	0.0	6.835	0.069	10	3	1	3
PL.3711	PL.3522	B	#4 ACSR	7.34Y	122.4	0.00	2.63	1.30	1	9	3	95	0.00	0.0	6.872	0.037	3	1	1	2
PL.3693	PL.3711	B	#4 ACSR	7.34Y	122.4	0.00	2.63	0.83	1	6	2	95	0.00	0.0	6.884	0.012	6	2	1	1
PL.3691	PL.3690	B	#4 ACSR	7.34Y	122.4	0.00	2.63	2.35	2	17	5	96	0.00	0.0	6.830	0.064	17	5	3	3
PL.3684	PL.3681	B	6 A (CWC)	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	6.441	0.117	0	0	0	0
PL.3835	PL.3684	B	6 A (CWC)	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	6.501	0.059	0	0	0	0
PL.3669	PL.3779	ABC	#4/0 ACSR	7.43Y	123.8	0.02	1.22	31.98	9	686	194	96	0.06	0.0	5.256	0.045	16	4	4	161
PL.3713	PL.3669	A	6 A (CWC)	7.43Y	123.8	0.00	1.22	0.46	0	3	1	95	0.00	0.0	5.309	0.053	0	0	0	2
PL.4020	PL.3713	A	6 A (CWC)	7.43Y	123.8	0.00	1.22	0.46	0	3	1	95	0.00	0.0	5.314	0.005	0	0	0	2
PD.479	PL.4020	A	40QA	7.43Y	123.8	0.00	1.22	0.46	1	3	1	95	0.00	0.0	5.314	0.005	0	0	0	2
PL.4021	PD.479	A	6 A (CWC)	7.43Y	123.8	0.00	1.22	0.46	0	3	1	95	0.00	0.0	5.356	0.042	3	1	2	2
PL.4022	PL.3669	A	6 A (CWC)	7.43Y	123.8	0.00	1.22	2.66	2	19	5	97	0.00	0.0	5.261	0.005	0	0	0	2

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.480	PL.4022	A	40QA	7.43Y	123.8	0.00	1.22	2.66	7	19	5	97	0.00	0.0	5.261	0.005	0	0	0	2
PL.4023	PD.480	A	6 A (CWC)	7.43Y	123.8	0.00	1.23	2.66	2	19	5	97	0.00	0.0	5.289	0.028	19	5	2	2
PL.3714	PL.3669	ABC	#4/0 ACSR	7.42Y	123.7	0.03	1.26	30.20	9	647	184	96	0.12	0.0	5.358	0.101	13	4	2	153
PL.3847	PL.3714	ABC	#4/0 ACSR	7.42Y	123.7	0.04	1.29	29.57	9	634	180	96	0.13	0.0	5.472	0.115	10	3	1	151
PL.3848	PL.3847	ABC	#4/0 ACSR	7.42Y	123.7	0.03	1.32	28.89	8	619	175	96	0.09	0.0	5.556	0.083	0	0	0	149
PL.3523	PL.3848	ABC	#4/0 ACSR	7.42Y	123.6	0.06	1.38	27.28	8	584	166	96	0.20	0.0	5.757	0.201	0	0	0	143
PL.3794	PL.3523	ABC	#4/0 ACSR	7.42Y	123.6	0.04	1.42	27.28	8	584	165	96	0.14	0.0	5.899	0.142	0	0	0	143
PL.3721	PL.3794	ABC	#4/0 ACSR	7.41Y	123.5	0.05	1.47	27.27	8	584	165	96	0.17	0.0	6.068	0.169	0	0	0	142
PL.4014	PL.3721	A	6 A (CWC)	7.41Y	123.5	0.00	1.47	0.20	0	1	0	100	0.00	0.0	6.073	0.005	0	0	0	1
PD.476	PL.4014	A	40QA	7.41Y	123.5	0.00	1.47	0.20	0	1	0	100	0.00	0.0	6.073	0.005	0	0	0	1
PL.4015	PD.476	A	6 A (CWC)	7.41Y	123.5	0.00	1.47	0.20	0	1	0	100	0.00	0.0	6.110	0.037	1	0	1	1
PL.3722	PL.3721	ABC	#4/0 ACSR	7.41Y	123.5	0.06	1.53	27.20	8	582	164	96	0.21	0.0	6.278	0.210	0	0	0	141
PL.3723	PL.3722	ABC	#4/0 ACSR	7.40Y	123.4	0.07	1.59	26.99	8	577	163	96	0.23	0.0	6.516	0.238	0	0	0	140
PL.3726	PL.3723	ABC	#4/0 ACSR	7.40Y	123.4	0.04	1.63	24.84	7	531	150	96	0.12	0.0	6.668	0.151	0	0	0	129
PL.4047	PL.3726	ABC	#4/0 ACSR	7.40Y	123.4	0.01	1.64	24.84	7	531	149	96	0.02	0.0	6.697	0.030	8	2	2	129
PL.3851	PL.4047	ABC	#4/0 ACSR	7.40Y	123.3	0.03	1.67	24.49	7	523	147	96	0.09	0.0	6.816	0.119	8	2	1	127
PL.3852	PL.3851	ABC	#4/0 ACSR	7.40Y	123.3	0.03	1.70	23.91	7	511	144	96	0.08	0.0	6.923	0.107	3	1	1	122
PL.3796	PL.3852	ABC	#1/0 ACSR	7.39Y	123.2	0.11	1.81	23.78	10	508	143	96	0.40	0.1	7.187	0.264	0	0	0	121
PL.3510	PL.3796	C	6 A (CWC)	7.39Y	123.2	0.00	1.81	0.49	0	3	1	95	0.00	0.0	7.192	0.005	0	0	0	3
PD.471	PL.3510	C	40QA	7.39Y	123.2	0.00	1.81	0.49	1	3	1	95	0.00	0.0	7.192	0.005	0	0	0	3
PL.3511	PD.471	C	6 A (CWC)	7.39Y	123.2	0.00	1.82	0.49	0	3	1	95	0.00	0.0	7.282	0.091	3	1	3	3
PL.10580	PL.3796	ABC	#1/0 ACSR	7.39Y	123.1	0.05	1.86	23.62	10	504	141	96	0.16	0.0	7.294	0.107	0	0	0	118
PD.1910	PL.10580	ABC	70L	7.39Y	123.1	0.00	1.86	23.62	34	504	141	96	0.00	0.0	7.294	0.107	0	0	0	118
PL.10581	PD.1910	ABC	#1/0 ACSR	7.39Y	123.1	0.00	1.86	23.62	10	504	141	96	0.00	0.0	7.296	0.002	0	0	0	118
PL.4032	PL.10581	B	6 A (CWC)	7.39Y	123.1	0.00	1.86	0.78	1	6	2	95	0.00	0.0	7.300	0.004	0	0	0	1
PD.484	PL.4032	B	40QA	7.39Y	123.1	0.00	1.86	0.78	2	6	2	95	0.00	0.0	7.300	0.004	0	0	0	1
PL.4033	PD.484	B	6 A (CWC)	7.39Y	123.1	0.00	1.86	0.78	1	6	2	95	0.00	0.0	7.342	0.042	6	2	1	1
PL.3733	PL.4033	B	#4/0 ACSR	7.39Y	123.1	0.00	1.86	0.00	0	0	0	100	0.00	0.0	7.424	0.082	0	0	0	0
PL.4034	PL.10581	B	6 A (CWC)	7.39Y	123.1	0.00	1.86	0.63	0	5	1	98	0.00	0.0	7.300	0.005	0	0	0	3
PD.485	PL.4034	B	15T	7.39Y	123.1	0.00	1.86	0.63	0	5	1	98	0.00	0.0	7.300	0.005	0	0	0	3
PL.4035	PD.485	B	6 A (CWC)	7.39Y	123.1	0.00	1.86	0.63	0	5	1	98	0.00	0.0	7.405	0.105	5	1	3	3

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3732	PL.10581	ABC	#1/0 ACSR	7.39Y	123.1	0.05	1.91	23.15	10	494	138	96	0.16	0.0	7.405	0.110	0	0	0	114
PL.3525	PL.3732	ABC	#1/0 ACSR	7.38Y	123.1	0.04	1.95	21.72	9	463	130	96	0.13	0.0	7.512	0.106	1	0	1	107
PL.3735	PL.3525	ABC	#1/0 ACSR	7.38Y	123.0	0.07	2.02	21.65	9	462	129	96	0.23	0.1	7.699	0.188	0	0	0	106
PL.3983	PL.3735	ABC	#1/0 ACSR	7.38Y	122.9	0.05	2.08	21.65	9	462	129	96	0.17	0.0	7.837	0.138	3	1	5	106
PL.3985	PL.3983	ABC	#1/0 ACSR	7.37Y	122.9	0.03	2.10	21.53	9	459	128	96	0.08	0.0	7.905	0.068	2	0	1	101
PL.3986	PL.3985	ABC	#1/0 ACSR	7.37Y	122.9	0.03	2.13	21.46	9	457	128	96	0.10	0.0	7.989	0.085	8	2	2	100
PL.3984	PL.3986	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.16	21.08	9	449	125	96	0.07	0.0	8.046	0.057	0	0	0	98
PL.3506	PL.3984	A	#2 ACSR	7.37Y	122.8	0.00	2.16	0.90	1	6	2	95	0.00	0.0	8.051	0.004	0	0	0	1
PD.469	PL.3506	A	15T	7.37Y	122.8	0.00	2.16	0.90	0	6	2	95	0.00	0.0	8.051	0.004	0	0	0	1
PL.3507	PD.469	A	#2 ACSR	7.37Y	122.8	0.00	2.16	0.90	1	6	2	95	0.00	0.0	8.078	0.027	6	2	1	1
PL.3526	PL.3984	ABC	#1/0 ACSR	7.37Y	122.8	0.07	2.23	20.78	9	443	124	96	0.22	0.0	8.237	0.191	9	3	1	97
PL.3980	PL.3526	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.25	20.34	9	433	121	96	0.07	0.0	8.299	0.062	0	0	0	96
PL.3981	PL.3980	ABC	#1/0 ACSR	7.36Y	122.7	0.03	2.28	20.08	9	427	119	96	0.09	0.0	8.388	0.089	10	3	3	95
PL.3982	PL.3981	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.30	19.59	9	417	116	96	0.06	0.0	8.450	0.062	10	3	2	92
PL.4050	PL.3982	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.32	19.14	8	407	113	96	0.04	0.0	8.486	0.036	0	0	0	90
PL.4051	PL.4050	ABC	#1/0 ACSR	7.36Y	122.7	0.03	2.35	19.14	8	407	113	96	0.09	0.0	8.577	0.091	0	0	0	90
PL.3502	PL.4051	C	#2 ACSR	7.36Y	122.7	0.00	2.35	6.53	4	46	13	96	0.00	0.0	8.581	0.004	0	0	0	9
PD.467	PL.3502	C	40QA	7.36Y	122.7	0.00	2.35	6.53	16	46	13	96	0.00	0.0	8.581	0.004	0	0	0	9
PL.3503	PD.467	C	#2 ACSR	7.36Y	122.6	0.00	2.35	6.53	4	46	13	96	0.00	0.0	8.594	0.013	0	0	0	9
PL.3736	PL.3503	C	#2 ACSR	7.36Y	122.6	0.00	2.35	6.53	4	46	13	96	0.00	0.0	8.630	0.036	46	13	9	9
PL.3527	PL.4051	ABC	#1/0 ACSR	7.36Y	122.6	0.04	2.38	16.96	7	361	101	96	0.09	0.0	8.700	0.123	0	0	0	81
PL.3528	PL.3527	ABC	#1/0 ACSR	7.36Y	122.6	0.01	2.40	9.58	4	204	56	96	0.02	0.0	8.785	0.085	0	0	0	42
PL.3533	PL.3528	ABC	#1/0 ACSR	7.35Y	122.6	0.03	2.43	8.44	4	179	50	96	0.04	0.0	8.980	0.195	0	0	0	38
PL.3816	PL.3533	ABC	#1/0 ACSR	7.35Y	122.5	0.02	2.45	8.44	4	179	50	96	0.03	0.0	9.133	0.153	0	0	0	38
PL.3754	PL.3816	ABC	#1/0 ACSR	7.35Y	122.5	0.04	2.49	8.44	4	179	50	96	0.04	0.0	9.363	0.230	0	0	0	38
PL.3534	PL.3754	ABC	#1/0 ACSR	7.35Y	122.5	0.02	2.51	8.20	4	174	48	96	0.02	0.0	9.490	0.127	0	0	0	36
PL.3949	PL.3534	ABC	#3/0 ACSR	7.35Y	122.5	0.00	2.51	2.59	1	55	15	96	0.00	0.0	9.569	0.079	0	0	0	16
PL.3950	PL.3949	ABC	#3/0 ACSR	7.35Y	122.5	0.01	2.51	2.59	1	55	15	96	0.00	0.0	9.751	0.182	0	0	0	16
PL.3845	PL.3950	ABC	#1/0 ACSR	7.35Y	122.5	0.01	2.52	2.59	1	55	15	96	0.00	0.0	9.890	0.140	0	0	0	16
PL.3823	PL.3845	ABC	#1/0 ACSR	7.35Y	122.5	0.01	2.53	2.59	1	55	15	96	0.00	0.0	10.023	0.133	0	0	0	16
PL.3494	PL.3823	B	6 A (CWC)	7.35Y	122.4	0.03	2.56	7.78	6	55	15	96	0.01	0.0	10.120	0.096	0	0	0	16

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.463	PL.3494	B	40QA	7.35Y	122.4	0.00	2.56	7.78	19	55	15	96	0.00	0.0	10.120	0.096	0	0	0	16
PL.3495	PD.463	B	6 A (CWC)	7.34Y	122.4	0.06	2.62	7.78	6	55	15	96	0.03	0.0	10.297	0.177	0	0	0	16
PL.3757	PL.3495	B	6 A (CWC)	7.34Y	122.4	0.00	2.63	2.06	1	15	4	97	0.00	0.0	10.360	0.063	7	2	2	3
PL.3760	PL.3757	B	6 A (CWC)	7.34Y	122.4	0.00	2.63	1.03	1	7	2	96	0.00	0.0	10.458	0.098	7	2	1	1
PL.32697	PL.3495	B	6 A (CWC)	7.34Y	122.4	0.02	2.65	5.71	4	40	11	96	0.01	0.0	10.394	0.097	3	1	1	13
PL.32696	PL.32697	B	6 A (CWC)	7.34Y	122.3	0.01	2.65	5.24	4	37	10	97	0.00	0.0	10.415	0.022	2	0	1	12
PL.3938	PL.32696	B	6 A (CWC)	7.34Y	122.3	0.02	2.68	5.03	4	36	10	96	0.01	0.0	10.518	0.102	4	1	4	11
PL.3936	PL.3938	B	6 A (CWC)	7.34Y	122.3	0.01	2.69	4.51	3	32	9	96	0.00	0.0	10.573	0.055	3	1	2	7
PL.3935	PL.3936	B	6 A (CWC)	7.34Y	122.3	0.01	2.70	4.08	3	29	8	96	0.00	0.0	10.631	0.058	0	0	0	5
PL.3933	PL.3935	B	6 A (CWC)	7.34Y	122.3	0.01	2.70	3.49	2	25	7	96	0.00	0.0	10.680	0.049	6	2	1	4
PL.3934	PL.3933	B	6 A (CWC)	7.34Y	122.3	0.01	2.71	2.62	2	19	5	97	0.00	0.0	10.795	0.115	11	3	1	3
PL.3932	PL.3934	B	6 A (CWC)	7.34Y	122.3	0.00	2.72	1.05	1	7	2	96	0.00	0.0	10.882	0.087	1	0	1	2
PL.3775	PL.3932	B	6 A (CWC)	7.34Y	122.3	0.00	2.72	0.00	0	0	0	100	0.00	0.0	10.944	0.062	0	0	0	0
PL.3774	PL.3932	B	#2 ACSR	7.34Y	122.3	0.00	2.72	0.85	0	6	2	95	0.00	0.0	10.973	0.091	0	0	0	1
PL.3536	PL.3774	B	#2 ACSR	7.34Y	122.3	0.00	2.72	0.00	0	0	0	100	0.00	0.0	11.095	0.122	0	0	0	0
PL.3776	PL.3774	B	#4 ACSR	7.34Y	122.3	0.00	2.72	0.85	1	6	2	95	0.00	0.0	10.993	0.020	6	2	1	1
PL.3773	PL.3935	B	6 A (CWC)	7.34Y	122.3	0.00	2.70	0.59	0	4	1	97	0.00	0.0	10.701	0.070	4	1	1	1
PL.3764	PL.3534	B	6 A (CWC)	7.35Y	122.5	0.04	2.54	16.83	12	119	33	96	0.03	0.0	9.539	0.049	14	4	3	20
PL.3766	PL.3764	B	6 A (CWC)	7.35Y	122.5	0.00	2.54	14.89	11	105	29	96	0.00	0.0	9.544	0.005	0	0	0	17
PD.462	PL.3766	B	20T	7.35Y	122.5	0.00	2.54	14.89	0	105	29	96	0.00	0.0	9.544	0.005	0	0	0	17
PL.3856	PD.462	B	6 A (CWC)	7.35Y	122.5	0.00	2.55	0.97	1	7	2	96	0.00	0.0	9.559	0.015	0	0	0	1
PL.3765	PL.3856	B	6 A (CWC)	7.35Y	122.5	0.00	2.55	0.97	1	7	2	96	0.00	0.0	9.570	0.010	7	2	1	1
PL.3535	PD.462	B	6 A (CWC)	7.35Y	122.4	0.03	2.58	13.92	10	99	27	96	0.02	0.0	9.597	0.053	8	2	1	16
PL.3767	PL.3535	B	6 A (CWC)	7.34Y	122.4	0.02	2.60	12.79	9	91	25	96	0.02	0.0	9.643	0.046	16	4	2	15
PL.3941	PL.3767	B	6 A (CWC)	7.34Y	122.4	0.03	2.64	9.40	7	67	18	97	0.02	0.0	9.722	0.079	0	0	1	12
PL.3947	PL.3941	B	6 A (CWC)	7.34Y	122.4	0.01	2.65	9.36	7	66	18	96	0.01	0.0	9.750	0.028	9	3	1	11
PL.3948	PL.3947	B	6 A (CWC)	7.34Y	122.3	0.01	2.66	8.03	6	57	16	96	0.00	0.0	9.790	0.040	19	5	2	10
PL.3770	PL.3948	B	6 A (CWC)	7.34Y	122.3	0.02	2.68	4.48	3	32	9	96	0.01	0.0	9.902	0.112	0	0	0	6
PL.3771	PL.3770	B	#4 ACSR	7.34Y	122.3	0.00	2.68	0.68	1	5	1	98	0.00	0.0	9.937	0.035	5	1	1	1
PL.3944	PL.3770	B	6 A (CWC)	7.34Y	122.3	0.01	2.69	3.80	3	27	7	97	0.00	0.0	9.967	0.064	3	1	1	5
PL.3945	PL.3944	B	6 A (CWC)	7.34Y	122.3	0.00	2.70	3.35	2	24	7	96	0.00	0.0	10.008	0.041	12	3	1	4

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3946	PL.3945	B	6 A (CWC)	7.34Y	122.3	0.00	2.70	1.71	1	12	3	97	0.00	0.0	10.085	0.077	6	2	1	3
PL.3942	PL.3946	B	6 A (CWC)	7.34Y	122.3	0.00	2.71	0.93	1	7	2	96	0.00	0.0	10.171	0.086	2	0	1	2
PL.3943	PL.3942	B	6 A (CWC)	7.34Y	122.3	0.00	2.71	0.69	0	5	1	98	0.00	0.0	10.319	0.148	0	0	0	1
PL.3821	PL.3943	B	6 A (CWC)	7.34Y	122.3	0.00	2.71	0.69	0	5	1	98	0.00	0.0	10.442	0.123	5	1	1	1
PL.3769	PL.3948	B	#2 ACSR	7.34Y	122.3	0.00	2.66	0.85	0	6	2	95	0.00	0.0	9.830	0.039	1	0	1	2
PL.3772	PL.3769	B	#1/0 ACSR	7.34Y	122.3	0.00	2.66	0.70	0	5	1	98	0.00	0.0	9.976	0.147	0	0	0	1
PL.3818	PL.3772	B	#1/0 ACSR	7.34Y	122.3	0.00	2.66	0.70	0	5	1	98	0.00	0.0	10.095	0.119	0	0	0	1
PL.3819	PL.3818	B	#1/0 ACSR	7.34Y	122.3	0.00	2.66	0.70	0	5	1	98	0.00	0.0	10.180	0.084	5	1	1	1
PL.3768	PL.3767	B	#4 ACSR	7.34Y	122.4	0.00	2.60	1.10	1	8	2	97	0.00	0.0	9.684	0.041	8	2	1	1
PL.3496	PL.3754	A	#2 ACSR	7.35Y	122.5	0.00	2.49	0.70	0	5	1	98	0.00	0.0	9.368	0.005	0	0	0	2
PD.464	PL.3496	A	40QA	7.35Y	122.5	0.00	2.49	0.70	2	5	1	98	0.00	0.0	9.368	0.005	0	0	0	2
PL.3497	PD.464	A	#2 ACSR	7.35Y	122.5	0.00	2.49	0.70	0	5	1	98	0.00	0.0	9.408	0.040	5	1	2	2
PL.3500	PL.3528	C	6 A (CWC)	7.36Y	122.6	0.00	2.40	3.43	2	24	7	96	0.00	0.0	8.790	0.005	0	0	0	4
PD.466	PL.3500	C	40QA	7.36Y	122.6	0.00	2.40	3.43	9	24	7	96	0.00	0.0	8.790	0.005	0	0	0	4
PL.3501	PD.466	C	6 A (CWC)	7.36Y	122.6	0.01	2.40	3.43	2	24	7	96	0.00	0.0	8.858	0.069	24	7	4	4
PL.4044	PL.3527	A	#1/0 ACSR	7.36Y	122.6	0.00	2.39	22.15	10	157	44	96	0.00	0.0	8.702	0.003	0	0	0	39
PL.10582	PL.4044	A	#1/0 ACSR	7.36Y	122.6	0.01	2.40	22.15	10	157	44	96	0.01	0.0	8.721	0.019	0	0	0	39
PD.1911	PL.10582	A	100CodeSMo	7.36Y	122.6	0.00	2.40	22.15	0	157	44	96	0.00	0.0	8.721	0.019	0	0	0	39
PL.10583	PD.1911	A	#1/0 ACSR	7.35Y	122.5	0.10	2.49	22.15	10	157	44	96	0.10	0.1	8.910	0.189	0	0	0	39
PL.3953	PL.10583	A	#1/0 ACSR	7.35Y	122.4	0.06	2.55	22.15	10	157	44	96	0.06	0.0	9.031	0.121	4	1	2	39
PL.3738	PL.3953	A	#1/0 ACSR	7.34Y	122.3	0.11	2.67	21.55	9	152	43	96	0.11	0.1	9.257	0.226	0	0	0	37
PL.3803	PL.3738	A	#1/0 ACSR	7.33Y	122.2	0.11	2.77	21.55	9	152	42	96	0.11	0.1	9.469	0.212	0	0	0	37
PL.3971	PL.3803	A	#1/0 ACSR	7.33Y	122.2	0.04	2.81	21.55	9	152	42	96	0.04	0.0	9.553	0.084	4	1	1	37
PL.3972	PL.3971	A	#1/0 ACSR	7.33Y	122.1	0.04	2.86	20.99	9	148	41	96	0.04	0.0	9.640	0.087	0	0	0	36
PL.3966	PL.3972	A	#1/0 ACSR	7.33Y	122.1	0.01	2.87	5.65	2	40	11	96	0.00	0.0	9.726	0.086	3	1	1	8
PL.3967	PL.3966	A	#1/0 ACSR	7.33Y	122.1	0.01	2.88	5.21	2	37	10	97	0.00	0.0	9.820	0.094	0	0	0	7
PL.3965	PL.3967	A	#1/0 ACSR	7.33Y	122.1	0.01	2.89	5.21	2	37	10	97	0.00	0.0	9.928	0.108	2	1	1	7
PL.3964	PL.3965	A	#1/0 ACSR	7.33Y	122.1	0.01	2.90	4.91	2	35	10	96	0.00	0.0	10.019	0.090	2	0	1	6
PL.3739	PL.3964	A	#4 ACSR	7.33Y	122.1	0.00	2.90	0.31	0	2	1	89	0.00	0.0	10.073	0.054	2	1	1	1
PL.3962	PL.3964	A	#1/0 ACSR	7.33Y	122.1	0.01	2.91	4.36	2	31	9	96	0.00	0.0	10.114	0.096	0	0	0	4
PL.3963	PL.3962	A	#1/0 ACSR	7.33Y	122.1	0.01	2.92	4.36	2	31	9	96	0.00	0.0	10.164	0.050	0	0	0	4

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3741	PL.3963	A	6 A (CWC)	7.33Y	122.1	0.00	2.92	0.18	0	1	0	100	0.00	0.0	10.197	0.033	0	0	0	2
PL.3742	PL.3741	A	6 A (CWC)	7.33Y	122.1	0.00	2.92	0.18	0	1	0	100	0.00	0.0	10.234	0.037	1	0	2	2
PL.3740	PL.3963	A	#1/0 ACSR	7.32Y	122.1	0.01	2.93	4.17	2	29	8	96	0.00	0.0	10.315	0.151	0	0	0	2
PL.3498	PL.3740	A	#1/0 ACSR	7.32Y	122.1	0.00	2.93	3.90	2	28	8	96	0.00	0.0	10.320	0.005	0	0	0	1
PD.465	PL.3498	A	40QA	7.32Y	122.1	0.00	2.93	3.90	10	28	8	96	0.00	0.0	10.320	0.005	0	0	0	1
PL.3743	PD.465	A	#1/0 ACSR	7.32Y	122.1	0.02	2.95	3.90	2	28	8	96	0.00	0.0	10.502	0.182	0	0	0	1
PL.3805	PL.3743	A	#1/0 ACSR	7.32Y	122.0	0.01	2.96	3.90	2	28	8	96	0.00	0.0	10.621	0.119	0	0	0	1
PL.3806	PL.3805	A	#1/0 ACSR	7.32Y	122.0	0.01	2.97	3.90	2	28	8	96	0.00	0.0	10.743	0.122	0	0	0	1
PL.3807	PL.3806	A	#1/0 ACSR	7.32Y	122.0	0.01	2.97	3.90	2	28	8	96	0.00	0.0	10.865	0.122	28	8	1	1
PL.3529	PL.3740	A	#1/0 ACSR	7.32Y	122.1	0.00	2.93	0.27	0	2	1	89	0.00	0.0	10.480	0.165	2	1	1	1
PL.3968	PL.3972	A	#1/0 ACSR	7.33Y	122.1	0.02	2.87	15.34	7	108	30	96	0.01	0.0	9.688	0.048	4	1	3	28
PL.3969	PL.3968	A	#1/0 ACSR	7.33Y	122.1	0.02	2.90	14.75	6	104	29	96	0.02	0.0	9.757	0.069	5	1	2	25
PL.3960	PL.3969	A	#1/0 ACSR	7.32Y	122.0	0.06	2.96	14.05	6	99	28	96	0.04	0.0	9.946	0.190	0	0	0	23
PL.3961	PL.3960	A	#1/0 ACSR	7.32Y	122.0	0.05	3.01	14.05	6	99	28	96	0.03	0.0	10.097	0.151	0	0	0	23
PL.3744	PL.3961	A	#4 ACSR	7.32Y	122.0	0.00	3.01	1.38	1	10	3	96	0.00	0.0	10.137	0.039	10	3	1	1
PL.3530	PL.3961	A	#1/0 ACSR	7.32Y	122.0	0.04	3.04	12.67	6	89	25	96	0.02	0.0	10.227	0.130	4	1	2	22
PL.3745	PL.3530	A	#1/0 ACSR	7.32Y	121.9	0.03	3.07	12.10	5	85	24	96	0.01	0.0	10.318	0.091	0	0	0	20
PL.3492	PL.3745	A	6 A (CWC)	7.32Y	121.9	0.00	3.07	9.42	7	66	18	96	0.00	0.0	10.323	0.004	0	0	0	15
PD.461	PL.3492	A	25T	7.32Y	121.9	0.00	3.07	9.42	0	66	18	96	0.00	0.0	10.323	0.004	0	0	0	15
PL.3493	PD.461	A	6 A (CWC)	7.31Y	121.9	0.03	3.10	9.42	7	66	18	96	0.02	0.0	10.397	0.074	0	0	0	15
PL.3748	PL.3493	A	6 A (CWC)	7.31Y	121.8	0.07	3.18	9.42	7	66	18	96	0.04	0.1	10.584	0.188	10	3	3	15
PL.3749	PL.3748	A	#4 ACSR	7.31Y	121.8	0.00	3.18	0.44	0	3	1	95	0.00	0.0	10.661	0.077	3	1	1	1
PL.3750	PL.3748	A	#4 ACSR	7.31Y	121.8	0.05	3.23	7.53	6	53	15	96	0.02	0.0	10.738	0.154	0	0	0	11
PL.3808	PL.3750	A	#4 ACSR	7.30Y	121.7	0.05	3.28	7.53	6	53	15	96	0.02	0.0	10.895	0.157	0	0	0	11
PL.3809	PL.3808	A	#4 ACSR	7.30Y	121.7	0.05	3.33	7.53	6	53	15	96	0.02	0.0	11.034	0.139	0	0	0	11
PL.3958	PL.3809	A	#4 ACSR	7.30Y	121.6	0.05	3.38	7.53	6	53	15	96	0.02	0.0	11.195	0.160	3	1	1	11
PL.3959	PL.3958	A	#4 ACSR	7.29Y	121.6	0.06	3.44	7.08	5	50	14	96	0.02	0.0	11.388	0.193	0	0	0	10
PL.3751	PL.3959	A	#4 ACSR	7.29Y	121.6	0.00	3.44	0.30	0	2	1	89	0.00	0.0	11.427	0.039	2	1	1	1
PL.3531	PL.3959	A	#4 ACSR	7.29Y	121.5	0.04	3.48	6.78	5	48	13	97	0.01	0.0	11.508	0.120	0	0	0	9
PL.3954	PL.3531	A	#4 ACSR	7.29Y	121.5	0.03	3.51	6.78	5	48	13	97	0.01	0.0	11.610	0.102	4	1	2	9
PL.3955	PL.3954	A	#4 ACSR	7.29Y	121.5	0.03	3.54	6.17	5	43	12	96	0.01	0.0	11.752	0.142	13	4	1	7

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3956	PL.3955	A	#4 ACSR	7.29Y	121.4	0.01	3.55	4.31	3	30	8	97	0.00	0.0	11.816	0.063	12	3	4	6
PL.3957	PL.3956	A	#4 ACSR	7.29Y	121.4	0.01	3.56	2.62	2	18	5	96	0.00	0.0	11.866	0.050	0	0	0	2
PL.3753	PL.3957	A	#4 ACSR	7.29Y	121.4	0.00	3.56	1.60	1	11	3	96	0.00	0.0	12.005	0.139	11	3	1	1
PL.3532	PL.3957	A	#4 ACSR	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	11.897	0.031	0	0	0	0
PL.3752	PL.3957	A	#4 ACSR	7.29Y	121.4	0.00	3.56	1.02	1	7	2	96	0.00	0.0	11.919	0.053	7	2	1	1
PL.4036	PL.3745	A	6 A (CWC)	7.32Y	121.9	0.00	3.07	2.68	2	19	5	97	0.00	0.0	10.323	0.005	0	0	0	5
PD.486	PL.4036	A	15T	7.32Y	121.9	0.00	3.07	2.68	0	19	5	97	0.00	0.0	10.323	0.005	0	0	0	5
PL.4037	PD.486	A	6 A (CWC)	7.32Y	121.9	0.01	3.08	2.68	2	19	5	97	0.00	0.0	10.416	0.093	7	2	1	5
PL.3940	PL.4037	A	6 A (CWC)	7.31Y	121.9	0.01	3.09	1.76	1	12	3	97	0.00	0.0	10.533	0.117	8	2	1	4
PL.3939	PL.3940	A	6 A (CWC)	7.31Y	121.9	0.01	3.09	0.65	0	5	1	98	0.00	0.0	10.713	0.180	0	0	0	3
PL.3842	PL.3939	A	6 A (CWC)	7.31Y	121.9	0.01	3.10	0.65	0	5	1	98	0.00	0.0	10.896	0.183	0	0	0	3
PL.3812	PL.3842	A	6 A (CWC)	7.31Y	121.9	0.00	3.10	0.65	0	5	1	98	0.00	0.0	11.008	0.112	0	0	0	3
PL.3843	PL.3812	A	6 A (CWC)	7.31Y	121.9	0.00	3.10	0.65	0	5	1	98	0.00	0.0	11.116	0.107	0	0	0	3
PL.3813	PL.3843	A	6 A (CWC)	7.31Y	121.9	0.00	3.11	0.65	0	5	1	98	0.00	0.0	11.235	0.119	2	1	1	3
PL.3746	PL.3813	A	#4 ACSR	7.31Y	121.9	0.00	3.11	0.35	0	2	1	89	0.00	0.0	11.353	0.118	0	0	0	2
PL.3814	PL.3746	A	#4 ACSR	7.31Y	121.9	0.00	3.11	0.35	0	2	1	89	0.00	0.0	11.515	0.162	0	0	1	2
PL.3747	PL.3814	A	#2 ACSR	7.31Y	121.9	0.00	3.11	0.35	0	2	1	89	0.00	0.0	11.683	0.168	2	1	1	1
CP.8	PL.4050	ABC	Cap (300)	7.36Y	122.7	0.00	2.32	0.00	0	0	0	100	0.00	0.0	8.486	0.168	0	0	0	0
PL.3504	PL.3980	A	6 A (CWC)	7.37Y	122.8	0.00	2.25	0.77	1	5	2	93	0.00	0.0	8.304	0.005	0	0	0	1
PD.468	PL.3504	A	40QA	7.37Y	122.8	0.00	2.25	0.77	2	5	2	93	0.00	0.0	8.304	0.005	0	0	0	1
PL.3505	PD.468	A	6 A (CWC)	7.36Y	122.7	0.00	2.25	0.77	1	5	2	93	0.00	0.0	8.358	0.054	5	2	1	1
PL.3734	PL.3732	C	6 A (CWC)	7.38Y	123.1	0.01	1.92	4.27	3	30	8	97	0.00	0.0	7.462	0.057	1	0	1	7
PL.3508	PL.3734	C	6 A (CWC)	7.38Y	123.1	0.00	1.92	4.13	3	29	8	96	0.00	0.0	7.466	0.005	0	0	0	6
PD.470	PL.3508	C	20T	7.38Y	123.1	0.00	1.92	4.13	0	29	8	96	0.00	0.0	7.466	0.005	0	0	0	6
PL.3509	PD.470	C	6 A (CWC)	7.38Y	123.1	0.02	1.93	4.13	3	29	8	96	0.00	0.0	7.553	0.087	0	0	0	6
PL.3987	PL.3509	C	#4 ACSR	7.38Y	123.0	0.02	1.95	4.13	3	29	8	96	0.00	0.0	7.664	0.110	0	0	0	6
PL.3988	PL.3987	C	#4 ACSR	7.38Y	123.0	0.03	1.98	4.13	3	29	8	96	0.01	0.0	7.815	0.151	0	0	0	6
PL.3797	PL.3988	C	#4 ACSR	7.38Y	123.0	0.03	2.01	4.13	3	29	8	96	0.01	0.0	7.965	0.150	0	0	0	6
PL.3836	PL.3797	C	#4 ACSR	7.38Y	123.0	0.03	2.04	4.13	3	29	8	96	0.01	0.0	8.144	0.178	0	0	0	6
PL.3799	PL.3836	C	#4 ACSR	7.38Y	122.9	0.03	2.07	4.13	3	29	8	96	0.01	0.0	8.284	0.141	0	0	0	6
PL.3975	PL.3799	C	6 A (CWC)	7.37Y	122.9	0.02	2.08	4.13	3	29	8	96	0.00	0.0	8.388	0.103	12	3	2	6

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3976	PL.3975	C	6 A (CWC)	7.37Y	122.9	0.01	2.10	2.38	2	17	5	96	0.00	0.0	8.487	0.099	0	0	0	4
PL.3837	PL.3976	C	6 A (CWC)	7.37Y	122.9	0.01	2.11	2.38	2	17	5	96	0.00	0.0	8.674	0.187	16	4	3	4
PL.10578	PL.3837	C	6 A (CWC)	7.37Y	122.9	0.00	2.11	0.16	0	1	0	100	0.00	0.0	8.722	0.048	0	0	0	1
PL.10579	PL.10578	C	6 A (CWC)	7.37Y	122.9	0.00	2.11	0.16	0	1	0	100	0.00	0.0	8.771	0.049	0	0	0	1
PL.3838	PL.10579	C	6 A (CWC)	7.37Y	122.9	0.00	2.11	0.16	0	1	0	100	0.00	0.0	8.881	0.110	0	0	0	1
PL.3800	PL.3838	C	6 A (CWC)	7.37Y	122.9	0.00	2.11	0.16	0	1	0	100	0.00	0.0	9.022	0.140	0	0	0	1
PL.3801	PL.3800	C	6 A (CWC)	7.37Y	122.9	0.00	2.11	0.16	0	1	0	100	0.00	0.0	9.150	0.129	0	0	0	1
PL.3802	PL.3801	C	6 A (CWC)	7.37Y	122.9	0.00	2.11	0.16	0	1	0	100	0.00	0.0	9.294	0.143	0	0	0	1
PL.3977	PL.3802	C	6 A (CWC)	7.37Y	122.9	0.00	2.11	0.16	0	1	0	100	0.00	0.0	9.387	0.093	1	0	1	1
PL.3978	PL.3977	C	6 A (CWC)	7.37Y	122.9	0.00	2.11	0.00	0	0	0	100	0.00	0.0	9.439	0.052	0	0	0	0
PL.3512	PL.3851	C	#4 ACSR	7.40Y	123.3	0.00	1.67	0.64	0	5	1	98	0.00	0.0	6.821	0.005	0	0	0	4
PD.472	PL.3512	C	40QA	7.40Y	123.3	0.00	1.67	0.64	2	5	1	98	0.00	0.0	6.821	0.005	0	0	0	4
PL.3513	PD.472	C	#4 ACSR	7.40Y	123.3	0.00	1.67	0.64	0	5	1	98	0.00	0.0	6.846	0.026	5	1	2	4
PL.3730	PL.3513	C	#4 ACSR	7.40Y	123.3	0.00	1.67	0.00	0	0	0	100	0.00	0.0	6.907	0.060	0	0	2	2
PL.3728	PL.3723	A	6 A (CWC)	7.40Y	123.4	0.01	1.60	2.13	2	15	4	97	0.00	0.0	6.570	0.054	0	0	0	5
PL.3551	PL.3728	A	6 A (CWC)	7.40Y	123.4	0.00	1.60	2.13	2	15	4	97	0.00	0.0	6.575	0.004	0	0	0	5
PD.473	PL.3551	A	40QA	7.40Y	123.4	0.00	1.60	2.13	5	15	4	97	0.00	0.0	6.575	0.004	0	0	0	5
PL.3552	PD.473	A	6 A (CWC)	7.40Y	123.4	0.00	1.60	2.13	2	15	4	97	0.00	0.0	6.589	0.014	1	0	2	5
PL.3991	PL.3552	A	6 A (CWC)	7.40Y	123.4	0.01	1.61	1.97	1	14	4	96	0.00	0.0	6.725	0.137	4	1	1	3
PL.3989	PL.3991	A	6 A (CWC)	7.40Y	123.4	0.00	1.61	1.38	1	10	3	96	0.00	0.0	6.754	0.029	0	0	0	2
PL.3990	PL.3989	A	6 A (CWC)	7.40Y	123.4	0.00	1.62	1.38	1	10	3	96	0.00	0.0	6.828	0.074	10	3	2	2
PL.3727	PL.3723	A	#4 ACSR	7.40Y	123.4	0.01	1.60	4.31	3	31	9	96	0.00	0.0	6.594	0.078	24	7	5	6
PL.3553	PL.3727	A	#4 ACSR	7.40Y	123.4	0.00	1.60	0.94	1	7	2	96	0.00	0.0	6.598	0.005	0	0	0	1
PD.474	PL.3553	A	40QA	7.40Y	123.4	0.00	1.60	0.94	2	7	2	96	0.00	0.0	6.598	0.005	0	0	0	1
PL.3554	PD.474	A	#4 ACSR	7.40Y	123.4	0.00	1.61	0.94	1	7	2	96	0.00	0.0	6.644	0.045	7	2	1	1
PL.3555	PL.3722	A	6 A (CWC)	7.41Y	123.5	0.00	1.53	0.63	0	5	1	98	0.00	0.0	6.283	0.004	0	0	0	1
PD.475	PL.3555	A	40QA	7.41Y	123.5	0.00	1.53	0.63	2	5	1	98	0.00	0.0	6.283	0.004	0	0	0	1
PL.3729	PD.475	A	6 A (CWC)	7.41Y	123.5	0.00	1.53	0.63	0	5	1	98	0.00	0.0	6.384	0.101	5	1	1	1
PL.4030	PL.3794	C	#4 ACSR	7.42Y	123.6	0.00	1.42	0.03	0	0	0	100	0.00	0.0	5.904	0.005	0	0	0	1
PD.483	PL.4030	C	15T	7.42Y	123.6	0.00	1.42	0.03	0	0	0	100	0.00	0.0	5.904	0.005	0	0	0	1
PL.4031	PD.483	C	#4 ACSR	7.42Y	123.6	0.00	1.42	0.03	0	0	0	100	0.00	0.0	5.964	0.060	0	0	1	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.4016	PL.3848	C	#4 ACSR	7.42Y	123.7	0.00	1.32	4.84	4	35	10	96	0.00	0.0	5.560	0.005	0	0	0	6
PD.477	PL.4016	C	40QA	7.42Y	123.7	0.00	1.32	4.84	12	35	10	96	0.00	0.0	5.560	0.005	0	0	0	6
PL.4017	PD.477	C	#4 ACSR	7.42Y	123.7	0.01	1.33	4.84	4	35	10	96	0.00	0.0	5.612	0.052	6	2	1	6
PL.3715	PL.4017	C	#4 ACSR	7.42Y	123.7	0.01	1.33	3.96	3	28	8	96	0.00	0.0	5.651	0.039	0	0	0	5
PL.3717	PL.3715	C	#2 ACSR	7.42Y	123.7	0.00	1.34	1.47	1	11	3	96	0.00	0.0	5.708	0.057	0	0	0	1
PL.3718	PL.3717	C	#2 ACSR	7.42Y	123.7	0.00	1.34	1.47	1	11	3	96	0.00	0.0	5.745	0.037	11	3	1	1
PL.3716	PL.3715	C	#4 ACSR	7.42Y	123.7	0.00	1.34	2.49	2	18	5	96	0.00	0.0	5.719	0.068	18	5	4	4
PL.4018	PL.3847	C	6 A (CWC)	7.42Y	123.7	0.00	1.29	0.68	0	5	1	98	0.00	0.0	5.477	0.005	0	0	0	1
PD.478	PL.4018	C	40QA	7.42Y	123.7	0.00	1.29	0.68	2	5	1	98	0.00	0.0	5.477	0.005	0	0	0	1
PL.4019	PD.478	C	6 A (CWC)	7.42Y	123.7	0.00	1.29	0.68	0	5	1	98	0.00	0.0	5.510	0.033	5	1	1	1
PL.4001	PL.3833	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.51	0	4	1	97	0.00	0.0	4.627	0.005	0	0	0	2
PD.446	PL.4001	C	40QA	7.44Y	124.1	0.00	0.94	0.51	1	4	1	97	0.00	0.0	4.627	0.005	0	0	0	2
PL.3712	PD.446	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.51	0	4	1	97	0.00	0.0	4.761	0.134	4	1	2	2
PL.2946	PL.3918	C	#4 ACSR	7.40Y	123.3	0.00	1.70	0.62	0	4	1	97	0.00	0.0	2.161	0.005	0	0	0	1
PD.452	PL.2946	C	40QA	7.40Y	123.3	0.00	1.70	0.62	2	4	1	97	0.00	0.0	2.161	0.005	0	0	0	1
PL.2947	PD.452	C	#4 ACSR	7.40Y	123.3	0.00	1.71	0.62	0	4	1	97	0.00	0.0	2.207	0.047	4	1	1	1
PL.2948	PL.3923	A	#4 ACSR	7.41Y	123.4	0.00	1.58	1.44	1	10	3	96	0.00	0.0	1.990	0.005	0	0	0	2
PD.453	PL.2948	A	40QA	7.41Y	123.4	0.00	1.58	1.44	4	10	3	96	0.00	0.0	1.990	0.005	0	0	0	2
PL.2949	PD.453	A	#4 ACSR	7.41Y	123.4	0.00	1.58	1.44	1	10	3	96	0.00	0.0	2.063	0.073	10	3	2	2
PL.2950	PL.3919	C	#4 ACSR	7.42Y	123.6	0.00	1.41	1.18	1	8	2	97	0.00	0.0	1.760	0.005	0	0	0	1
PD.454	PL.2950	C	40QA	7.42Y	123.6	0.00	1.41	1.18	3	8	2	97	0.00	0.0	1.760	0.005	0	0	0	1
PL.2951	PD.454	C	#4 ACSR	7.42Y	123.6	0.00	1.41	1.18	1	8	2	97	0.00	0.0	1.807	0.048	0	0	0	1
PL.3629	PL.2951	C	#4 ACSR	7.42Y	123.6	0.00	1.41	1.18	1	8	2	97	0.00	0.0	1.837	0.030	8	2	1	1
PL.2952	PL.3538	C	6 A (CWC)	7.43Y	123.9	0.00	1.09	2.86	2	21	6	96	0.00	0.0	1.335	0.005	0	0	0	4
PD.455	PL.2952	C	40QA	7.43Y	123.9	0.00	1.09	2.86	7	21	6	96	0.00	0.0	1.335	0.005	0	0	0	4
PL.2953	PD.455	C	6 A (CWC)	7.43Y	123.9	0.00	1.09	2.86	2	21	6	96	0.00	0.0	1.355	0.020	4	1	1	4
PL.3625	PL.2953	C	6 A (CWC)	7.43Y	123.9	0.00	1.10	2.36	2	17	5	96	0.00	0.0	1.402	0.047	7	2	2	3
PL.3626	PL.3625	C	#2 ACSR	7.43Y	123.9	0.00	1.10	1.43	1	10	3	96	0.00	0.0	1.423	0.021	10	3	1	1
PL.3488	PL.3620	C	#1/0 ACSR	7.47Y	124.5	0.00	0.48	0.72	0	5	1	98	0.00	0.0	0.572	0.017	0	0	0	1
PD.459	PL.3488	C	40QA	7.47Y	124.5	0.00	0.48	0.72	2	5	1	98	0.00	0.0	0.572	0.017	0	0	0	1
PL.3489	PD.459	C	#1/0 ACSR	7.47Y	124.5	0.00	0.48	0.72	0	5	1	98	0.00	0.0	0.622	0.050	5	1	1	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3618	PL.3781	ABC	#1/0 ACSR	7.48Y	124.7	0.01	0.27	9.91	4	200	97	90	0.01	0.0	0.332	0.056	0	0	0	1
PL.4038	PL.3618	ABC	4/0 AL URD	7.48Y	124.7	0.00	0.27	9.91	4	200	97	90	0.00	0.0	0.336	0.005	0	0	0	1
PD.487	PL.4038	ABC	65T	7.48Y	124.7	0.00	0.27	9.91	0	200	97	90	0.00	0.0	0.336	0.005	0	0	0	1
PL.4039	PD.487	ABC	4/0 AL URD	7.48Y	124.7	0.00	0.27	9.91	4	200	97	90	0.00	0.0	0.379	0.043	200	97	1	1
PL.2956	PL.3780	C	6 A (CWC)	7.49Y	124.8	0.00	0.18	0.67	0	5	1	98	0.00	0.0	0.193	0.004	0	0	0	3
PD.457	PL.2956	C	40QA	7.49Y	124.8	0.00	0.18	0.67	2	5	1	98	0.00	0.0	0.193	0.004	0	0	0	3
PL.2957	PD.457	C	6 A (CWC)	7.49Y	124.8	0.00	0.18	0.67	0	5	1	98	0.00	0.0	0.242	0.048	5	1	3	3
PL.4053	Goose Rock	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	119.12	23	2564	779	96	0.06	0.0	0.005	0.005	0	0	0	666
PL.7159	PL.4053	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	119.12	23	2564	779	96	0.01	0.0	0.006	0.001	0	0	0	666
---------- Feeder No. 3 (Brightshade F3) Beginning with Device PD.1528 ----------																				
PD.1528	PL.7159	ABC	480VWE	7.50Y	125.0	0.00	0.01	119.12	0	2564	779	96	0.00	0.0	0.006	0.001	0	0	0	666
PL.7160	PD.1528	ABC	336 MCM AC	7.50Y	125.0	0.03	0.03	119.12	23	2564	779	96	0.34	0.0	0.034	0.028	0	0	0	666
PL.2860	PL.7160	ABC	336 MCM AC	7.49Y	124.9	0.10	0.13	119.12	23	2564	778	96	1.34	0.1	0.147	0.112	0	0	0	666
PL.2861	PL.2860	ABC	336 MCM AC	7.49Y	124.8	0.09	0.23	119.12	23	2563	775	96	1.21	0.0	0.248	0.101	0	0	0	666
PL.2862	PL.2861	ABC	336 MCM AC	7.48Y	124.7	0.06	0.29	119.12	23	2561	772	96	0.85	0.0	0.319	0.071	0	0	0	666
PL.2863	PL.2862	ABC	336 MCM AC	7.48Y	124.6	0.09	0.38	119.12	23	2561	770	96	1.21	0.0	0.420	0.101	0	0	0	666
PL.2575	PL.2863	C	#2 ACSR	7.48Y	124.6	0.00	0.38	2.96	2	21	6	96	0.00	0.0	0.443	0.023	0	0	1	4
PL.3420	PL.2575	C	#2 ACSR	7.48Y	124.6	0.00	0.38	2.96	2	21	6	96	0.00	0.0	0.447	0.005	0	0	0	3
PD.373	PL.3420	C	40QA	7.48Y	124.6	0.00	0.38	2.96	7	21	6	96	0.00	0.0	0.447	0.005	0	0	0	3
PL.3421	PD.373	C	#2 ACSR	7.48Y	124.6	0.01	0.39	2.96	2	21	6	96	0.00	0.0	0.601	0.154	21	6	3	3
PL.65760	PL.3421	C	#1/0 ACSR	7.48Y	124.6	0.00	0.39	0.00	0	0	0	100	0.00	0.0	0.709	0.108	0	0	0	0
PL.2579	PL.2863	ABC	336 MCM AC	7.47Y	124.5	0.16	0.54	116.72	22	2508	753	96	2.08	0.1	0.601	0.181	0	0	0	658
PL.2581	PL.2579	ABC	336 MCM AC	7.46Y	124.4	0.05	0.59	116.72	22	2505	748	96	0.63	0.0	0.656	0.054	0	0	0	658
PL.3169	PL.2581	ABC	336 MCM AC	7.46Y	124.3	0.10	0.69	115.94	22	2488	742	96	1.22	0.0	0.764	0.108	1	0	2	655
PL.3170	PL.3169	ABC	336 MCM AC	7.45Y	124.2	0.09	0.77	115.88	22	2486	739	96	1.13	0.0	0.864	0.100	0	0	0	653
PL.2864	PL.3170	ABC	336 MCM AC	7.45Y	124.1	0.08	0.86	115.88	22	2484	736	96	1.08	0.0	0.959	0.095	0	0	0	653
PL.2865	PL.2864	ABC	336 MCM AC	7.44Y	124.0	0.11	0.97	115.88	22	2483	734	96	1.41	0.1	1.084	0.124	0	0	0	653
PL.3590	PL.2865	ABC	336 MCM AC	7.44Y	124.0	0.03	0.99	99.01	19	2119	629	96	0.28	0.0	1.118	0.034	0	0	0	564
PD.429-A	PL.3590	ABC	Closed	7.44Y	124.0	0.00	0.99	99.01	0	2119	629	96	0.00	0.0	1.118	0.034	0	0	0	564

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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.429-B	PD.429-A	ABC	Closed	7.44Y	124.0	0.00	0.99	99.01	0	2119	629	96	0.00	0.0	1.118	0.034	0	0	0	564
PL.3591	PD.429-B	ABC	336 MCM AC	7.44Y	123.9	0.06	1.05	99.01	19	2119	629	96	0.62	0.0	1.193	0.076	0	0	0	564
PL.3424	PL.3591	C	#4 ACSR	7.44Y	123.9	0.00	1.05	0.37	0	3	1	95	0.00	0.0	1.198	0.005	0	0	0	1
PD.375	PL.3424	C	40QA	7.44Y	123.9	0.00	1.05	0.37	1	3	1	95	0.00	0.0	1.198	0.005	0	0	0	1
PL.3425	PD.375	C	#4 ACSR	7.44Y	123.9	0.00	1.05	0.37	0	3	1	95	0.00	0.0	1.223	0.025	3	1	1	1
PL.3091	PL.3591	ABC	336 MCM AC	7.43Y	123.9	0.08	1.13	98.89	19	2116	626	96	0.84	0.0	1.296	0.103	5	1	1	563
PL.3092	PL.3091	ABC	336 MCM AC	7.43Y	123.9	0.02	1.15	96.05	19	2054	608	96	0.19	0.0	1.321	0.025	0	0	0	552
PL.2585	PL.3092	ABC	336 MCM AC	7.43Y	123.8	0.03	1.17	96.05	19	2053	607	96	0.30	0.0	1.360	0.039	4	1	1	552
PL.3408	PL.2585	C	#4 ACSR	7.43Y	123.8	0.00	1.17	1.22	1	9	2	98	0.00	0.0	1.364	0.005	0	0	0	1
PD.368	PL.3408	C	15T	7.43Y	123.8	0.00	1.17	1.22	0	9	2	98	0.00	0.0	1.364	0.005	0	0	0	1
PL.3409	PD.368	C	#4 ACSR	7.43Y	123.8	0.00	1.17	1.22	1	9	2	98	0.00	0.0	1.380	0.016	9	2	1	1
PL.3411	PL.2585	ABC	336 MCM AC	7.43Y	123.8	0.07	1.24	95.47	18	2041	603	96	0.71	0.0	1.453	0.093	9	3	2	550
PL.3564	PL.3411	A	#2 ACSR	7.43Y	123.8	0.00	1.24	0.80	0	6	2	95	0.00	0.0	1.457	0.004	0	0	0	2
PD.417	PL.3564	A	40QA	7.43Y	123.8	0.00	1.24	0.80	2	6	2	95	0.00	0.0	1.457	0.004	0	0	0	2
PL.3565	PD.417	A	#2 ACSR	7.43Y	123.8	0.00	1.24	0.80	0	6	2	95	0.00	0.0	1.478	0.020	6	2	2	2
PL.2594	PL.3411	ABC	336 MCM AC	7.42Y	123.7	0.05	1.29	94.77	18	2025	597	96	0.51	0.0	1.521	0.068	24	7	4	546
PL.2595	PL.2594	ABC	336 MCM AC	7.42Y	123.7	0.04	1.33	93.64	18	2000	589	96	0.45	0.0	1.582	0.061	0	0	0	542
PL.3094	PL.2595	ABC	336 MCM AC	7.42Y	123.6	0.07	1.40	93.33	18	1993	586	96	0.69	0.0	1.676	0.094	1	0	1	541
PL.3404	PL.3094	A	#2 ACSR	7.42Y	123.6	0.00	1.40	9.96	6	71	20	96	0.00	0.0	1.680	0.005	0	0	0	16
PD.366	PL.3404	A	40QA	7.42Y	123.6	0.00	1.40	9.96	25	71	20	96	0.00	0.0	1.680	0.005	0	0	0	16
PL.3405	PD.366	A	#2 ACSR	7.42Y	123.6	0.01	1.41	9.96	6	71	20	96	0.01	0.0	1.714	0.033	0	0	0	16
PL.2596	PL.3405	A	#2 ACSR	7.41Y	123.6	0.02	1.43	9.96	6	71	20	96	0.01	0.0	1.770	0.056	0	0	0	16
PL.2597	PL.2596	A	6 A (CWC)	7.41Y	123.5	0.03	1.46	9.96	7	71	20	96	0.01	0.0	1.830	0.060	0	0	0	16
PL.2598	PL.2597	A	6 A (CWC)	7.41Y	123.5	0.05	1.50	9.96	7	71	20	96	0.03	0.0	1.935	0.106	0	0	0	16
PL.2599	PL.2598	A	#4 ACSR	7.41Y	123.5	0.01	1.51	6.15	5	44	12	96	0.00	0.0	1.968	0.033	3	1	1	10
PL.2604	PL.2599	A	#4 ACSR	7.41Y	123.5	0.01	1.52	5.78	4	41	11	97	0.00	0.0	2.006	0.038	9	2	1	9
PL.2605	PL.2604	A	#4 ACSR	7.41Y	123.5	0.01	1.53	4.55	3	32	9	96	0.00	0.0	2.068	0.062	5	1	1	8
PL.2606	PL.2605	A	#4 ACSR	7.41Y	123.5	0.00	1.53	1.02	1	7	2	96	0.00	0.0	2.121	0.052	7	2	1	1
PL.2607	PL.2605	A	#4 ACSR	7.41Y	123.5	0.01	1.54	2.80	2	20	6	96	0.00	0.0	2.148	0.080	0	0	1	6
PL.2608	PL.2607	A	#4 ACSR	7.41Y	123.4	0.01	1.55	2.80	2	20	6	96	0.00	0.0	2.229	0.081	7	2	1	5
PL.2609	PL.2608	A	#4 ACSR	7.41Y	123.4	0.00	1.55	0.00	0	0	0	100	0.00	0.0	2.287	0.058	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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2610	PL.2608	A	#2 ACSR	7.41Y	123.4	0.00	1.55	1.78	1	13	4	96	0.00	0.0	2.245	0.016	0	0	0	4
PL.2611	PL.2610	A	#2 ACSR	7.41Y	123.4	0.00	1.55	0.00	0	0	0	100	0.00	0.0	2.316	0.070	0	0	1	1
PL.3402	PL.2610	A	#2 ACSR	7.41Y	123.4	0.00	1.55	1.78	1	13	4	96	0.00	0.0	2.250	0.005	0	0	0	3
PD.365	PL.3402	A	40QA	7.41Y	123.4	0.00	1.55	1.78	4	13	4	96	0.00	0.0	2.250	0.005	0	0	0	3
PL.3403	PD.365	A	#2 ACSR	7.41Y	123.4	0.00	1.55	1.78	1	13	4	96	0.00	0.0	2.263	0.013	13	4	3	3
PL.2600	PL.2598	A	#4 ACSR	7.41Y	123.5	0.01	1.51	3.81	3	27	8	96	0.00	0.0	1.996	0.061	5	1	2	6
PL.2601	PL.2600	A	#4 ACSR	7.41Y	123.5	0.00	1.52	3.08	2	22	6	96	0.00	0.0	2.030	0.034	0	0	0	4
PL.2603	PL.2601	A	#4 ACSR	7.41Y	123.5	0.00	1.52	2.06	2	15	4	97	0.00	0.0	2.072	0.042	15	4	2	2
PL.2602	PL.2601	A	#4 ACSR	7.41Y	123.5	0.00	1.52	1.03	1	7	2	96	0.00	0.0	2.082	0.052	7	2	2	2
PL.3095	PL.3094	ABC	336 MCM AC	7.41Y	123.5	0.06	1.46	89.97	17	1920	565	96	0.64	0.0	1.769	0.094	0	0	0	524
PL.3050	PL.3095	ABC	336 MCM AC	7.41Y	123.5	0.06	1.52	89.97	17	1920	563	96	0.61	0.0	1.859	0.090	0	0	0	524
PL.3166	PL.3050	ABC	336 MCM AC	7.41Y	123.4	0.04	1.56	89.71	17	1914	560	96	0.38	0.0	1.916	0.057	6	2	1	523
PL.3167	PL.3166	ABC	336 MCM AC	7.40Y	123.4	0.06	1.62	89.45	17	1908	558	96	0.61	0.0	2.006	0.090	0	0	0	522
PL.3416	PL.3167	C	#1/0 ACSR	7.40Y	123.4	0.00	1.62	1.03	0	7	2	96	0.00	0.0	2.010	0.005	0	0	0	3
PD.371	PL.3416	C	40QA	7.40Y	123.4	0.00	1.62	1.03	3	7	2	96	0.00	0.0	2.010	0.005	0	0	0	3
PL.3417	PD.371	C	#1/0 ACSR	7.40Y	123.4	0.00	1.62	1.03	0	7	2	96	0.00	0.0	2.034	0.023	0	0	0	3
PL.2612	PL.3417	C	#2 ACSR	7.40Y	123.4	0.00	1.62	1.03	1	7	2	96	0.00	0.0	2.087	0.053	7	2	3	3
PL.2871	PL.3167	ABC	336 MCM AC	7.40Y	123.3	0.12	1.74	89.11	17	1900	555	96	1.18	0.1	2.182	0.176	0	0	0	519
PL.3162	PL.2871	ABC	336 MCM AC	7.39Y	123.2	0.07	1.81	89.11	17	1898	552	96	0.71	0.0	2.289	0.106	3	1	2	519
PL.3163	PL.3162	ABC	336 MCM AC	7.39Y	123.1	0.08	1.89	88.97	17	1895	549	96	0.80	0.0	2.408	0.120	0	0	0	517
PL.3158	PL.3163	ABC	336 MCM AC	7.38Y	123.0	0.06	1.95	88.97	17	1894	547	96	0.61	0.0	2.500	0.091	0	0	0	517
PL.3159	PL.3158	ABC	336 MCM AC	7.38Y	123.0	0.02	1.97	88.97	17	1893	546	96	0.17	0.0	2.526	0.026	0	0	0	517
PL.3412	PL.3159	A	#2 ACSR	7.38Y	123.0	0.00	1.97	0.42	0	3	1	95	0.00	0.0	2.530	0.005	0	0	0	1
PD.369	PL.3412	A	40QA	7.38Y	123.0	0.00	1.97	0.42	1	3	1	95	0.00	0.0	2.530	0.005	0	0	0	1
PL.3413	PD.369	A	#2 ACSR	7.38Y	123.0	0.00	1.97	0.42	0	3	1	95	0.00	0.0	2.548	0.018	3	1	1	1
PL.3160	PL.3159	ABC	336 MCM AC	7.38Y	123.0	0.03	2.01	88.82	17	1890	545	96	0.35	0.0	2.578	0.052	0	0	0	516
PL.3161	PL.3160	ABC	336 MCM AC	7.38Y	122.9	0.07	2.08	88.82	17	1890	544	96	0.71	0.0	2.685	0.107	0	0	0	516
PL.2872	PL.3161	ABC	336 MCM AC	7.37Y	122.8	0.11	2.19	88.82	17	1889	542	96	1.08	0.1	2.848	0.163	14	4	4	516
PL.3592	PL.2872	B	#2 ACSR	7.37Y	122.8	0.00	2.19	46.40	27	329	93	96	0.01	0.0	2.851	0.003	0	0	0	97
PD.430	PL.3592	B	70L	7.37Y	122.8	0.00	2.19	46.40	66	329	93	96	0.00	0.0	2.851	0.003	0	0	0	97
PL.3593	PD.430	B	#2 ACSR	7.36Y	122.6	0.21	2.40	46.40	27	329	93	96	0.50	0.2	2.994	0.143	0	0	0	97

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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2615	PL.3593	B	#2 ACSR	7.35Y	122.4	0.16	2.56	45.07	26	319	90	96	0.37	0.1	3.107	0.113	4	1	1	95
PL.2617	PL.2615	B	#2 ACSR	7.34Y	122.3	0.11	2.67	44.52	25	315	89	96	0.25	0.1	3.184	0.077	0	0	0	94
PL.2618	PL.2617	B	#2 ACSR	7.34Y	122.3	0.05	2.72	44.52	25	315	88	96	0.11	0.0	3.220	0.036	0	0	0	94
PL.3156	PL.2618	B	#2 ACSR	7.33Y	122.2	0.04	2.76	44.52	25	314	88	96	0.10	0.0	3.251	0.031	0	0	0	94
PL.3157	PL.3156	B	#2 ACSR	7.33Y	122.1	0.10	2.87	44.52	25	314	88	96	0.23	0.1	3.324	0.073	0	0	0	94
PL.3155	PL.3157	B	#2 ACSR	7.32Y	122.0	0.09	2.95	44.52	25	314	88	96	0.20	0.1	3.386	0.062	0	0	0	94
PL.3153	PL.3155	B	#2 ACSR	7.31Y	121.9	0.16	3.11	44.52	25	314	88	96	0.36	0.1	3.499	0.113	4	1	2	94
PL.3154	PL.3153	B	#2 ACSR	7.31Y	121.8	0.05	3.16	43.91	25	309	86	96	0.12	0.0	3.538	0.039	7	2	2	92
PL.2621	PL.3154	B	#4 ACSR	7.31Y	121.8	0.00	3.17	1.01	1	7	2	96	0.00	0.0	3.603	0.064	2	1	1	3
PL.2622	PL.2621	B	#2 ACSR	7.31Y	121.8	0.00	3.17	0.67	0	5	1	98	0.00	0.0	3.628	0.025	5	1	2	2
PL.3119	PL.3154	B	#2 ACSR	7.31Y	121.8	0.06	3.23	41.85	24	295	82	96	0.14	0.0	3.587	0.049	5	1	2	87
PL.3120	PL.3119	B	#2 ACSR	7.30Y	121.7	0.10	3.32	40.12	23	282	79	96	0.20	0.1	3.664	0.077	2	1	1	84
PL.2624	PL.3120	B	#4 ACSR	7.30Y	121.7	0.01	3.34	4.16	3	29	8	96	0.00	0.0	3.749	0.085	16	5	2	3
PL.2623	PL.2624	B	#2 ACSR	7.30Y	121.7	0.00	3.34	1.83	1	13	4	96	0.00	0.0	3.793	0.044	13	4	1	1
PL.3121	PL.3120	B	#2 ACSR	7.29Y	121.5	0.15	3.48	35.63	20	251	70	96	0.28	0.1	3.801	0.137	0	0	0	80
PL.2874	PL.3121	B	#2 ACSR	7.28Y	121.4	0.15	3.63	35.63	20	250	70	96	0.27	0.1	3.937	0.135	5	1	2	80
PL.3152	PL.2874	B	#2 ACSR	7.28Y	121.3	0.08	3.71	34.91	20	245	68	96	0.15	0.1	4.014	0.077	12	3	2	78
PL.3122	PL.3152	B	#2 ACSR	7.27Y	121.2	0.06	3.77	30.74	18	216	60	96	0.09	0.0	4.074	0.060	3	1	2	69
PL.2626	PL.3122	B	#2 ACSR	7.27Y	121.2	0.07	3.84	30.25	17	212	59	96	0.11	0.1	4.148	0.074	4	1	4	67
PL.2630	PL.2626	B	#4 ACSR	7.27Y	121.2	0.00	3.84	1.73	1	12	3	97	0.00	0.0	4.173	0.026	12	3	1	1
PL.2632	PL.2626	B	#2 ACSR	7.26Y	121.0	0.15	3.99	27.93	16	196	54	96	0.21	0.1	4.319	0.171	8	2	4	62
PL.2634	PL.2632	B	#2 ACSR	7.26Y	120.9	0.07	4.06	26.84	15	188	52	96	0.10	0.1	4.406	0.087	1	0	1	58
PL.2635	PL.2634	B	#2 ACSR	7.26Y	120.9	0.02	4.08	26.75	15	187	52	96	0.02	0.0	4.425	0.019	9	2	1	57
PL.2636	PL.2635	B	#2 ACSR	7.26Y	120.9	0.01	4.08	25.51	15	178	49	96	0.01	0.0	4.432	0.007	0	0	1	56
PL.2637	PL.2636	B	#2 ACSR	7.25Y	120.9	0.03	4.11	23.62	13	165	46	96	0.04	0.0	4.472	0.040	1	0	2	54
PL.2639	PL.2637	B	#2 ACSR	7.25Y	120.8	0.04	4.16	18.75	11	131	36	96	0.04	0.0	4.551	0.079	11	3	4	46
PL.2642	PL.2639	B	#2 ACSR	7.25Y	120.8	0.00	4.16	0.49	0	3	1	95	0.00	0.0	4.634	0.084	3	1	2	2
PL.2645	PL.2642	B	#4 ACSR	7.25Y	120.8	0.00	4.16	0.00	0	0	0	100	0.00	0.0	4.741	0.107	0	0	0	0
PL.2646	PL.2645	B	#4 ACSR	7.25Y	120.8	0.00	4.16	0.00	0	0	0	100	0.00	0.0	4.806	0.065	0	0	0	0
PL.2643	PL.2639	B	#2 ACSR	7.25Y	120.8	0.07	4.23	16.76	10	117	32	96	0.06	0.1	4.708	0.157	24	7	4	40
PL.2648	PL.2643	B	#2 ACSR	7.24Y	120.7	0.08	4.31	13.27	8	93	26	96	0.05	0.1	4.893	0.185	3	1	3	36

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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3394	PL.2648	B	#4 ACSR	7.24Y	120.7	0.00	4.31	2.81	2	20	5	97	0.00	0.0	4.897	0.005	0	0	0	8
PD.360	PL.3394	B	20T	7.24Y	120.7	0.00	4.31	2.81	0	20	5	97	0.00	0.0	4.897	0.005	0	0	0	8
PL.3395	PD.360	B	#4 ACSR	7.24Y	120.7	0.02	4.32	2.81	2	20	5	97	0.00	0.0	5.022	0.124	0	0	0	8
PL.2878	PL.3395	B	#4 ACSR	7.24Y	120.7	0.01	4.34	2.81	2	20	5	97	0.00	0.0	5.134	0.113	0	0	0	8
PL.2651	PL.2878	B	#4 ACSR	7.24Y	120.6	0.02	4.35	2.81	2	20	5	97	0.00	0.0	5.291	0.157	3	1	1	8
PL.2652	PL.2651	B	#4 ACSR	7.24Y	120.6	0.01	4.37	2.38	2	17	5	96	0.00	0.0	5.407	0.116	0	0	0	7
PL.2653	PL.2652	B	#4 ACSR	7.24Y	120.6	0.01	4.38	2.38	2	17	5	96	0.00	0.0	5.519	0.113	5	1	1	7
PL.2654	PL.2653	B	#4 ACSR	7.24Y	120.6	0.01	4.39	1.65	1	12	3	97	0.00	0.0	5.679	0.160	0	0	0	6
PL.2879	PL.2654	B	#4 ACSR	7.24Y	120.6	0.01	4.40	1.65	1	12	3	97	0.00	0.0	5.773	0.093	0	0	0	6
PL.3052	PL.2879	B	#4 ACSR	7.24Y	120.6	0.01	4.40	1.65	1	12	3	97	0.00	0.0	5.880	0.107	0	0	0	6
PL.2880	PL.3052	B	#4 ACSR	7.24Y	120.6	0.01	4.41	1.65	1	12	3	97	0.00	0.0	5.992	0.112	0	0	0	6
PL.3053	PL.2880	B	#4 ACSR	7.23Y	120.6	0.01	4.42	1.65	1	12	3	97	0.00	0.0	6.080	0.088	0	0	0	6
PL.2881	PL.3053	B	#4 ACSR	7.23Y	120.6	0.01	4.43	1.65	1	12	3	97	0.00	0.0	6.176	0.097	0	0	0	6
PL.3054	PL.2881	B	#4 ACSR	7.23Y	120.6	0.01	4.43	1.65	1	12	3	97	0.00	0.0	6.255	0.079	0	0	0	6
PL.2882	PL.3054	B	#4 ACSR	7.23Y	120.6	0.01	4.44	1.65	1	12	3	97	0.00	0.0	6.352	0.097	0	0	0	6
PL.3055	PL.2882	B	#4 ACSR	7.23Y	120.6	0.01	4.45	1.65	1	12	3	97	0.00	0.0	6.457	0.105	0	0	0	6
PL.2883	PL.3055	B	#4 ACSR	7.23Y	120.5	0.01	4.45	1.65	1	12	3	97	0.00	0.0	6.532	0.075	0	0	0	6
PL.3056	PL.2883	B	#4 ACSR	7.23Y	120.5	0.01	4.46	1.65	1	12	3	97	0.00	0.0	6.632	0.100	0	0	0	6
PL.2655	PL.3056	B	#4 ACSR	7.23Y	120.5	0.00	4.46	1.65	1	12	3	97	0.00	0.0	6.679	0.047	0	0	0	6
PL.2656	PL.2655	B	#4 ACSR	7.23Y	120.5	0.01	4.47	1.44	1	10	3	96	0.00	0.0	6.847	0.169	0	0	0	3
PL.2696	PL.2656	B	#4 ACSR	7.23Y	120.5	0.01	4.48	1.44	1	10	3	96	0.00	0.0	6.927	0.080	0	0	0	3
PL.2698	PL.2696	B	#4 ACSR	7.23Y	120.5	0.00	4.48	0.67	1	5	1	98	0.00	0.0	6.996	0.069	5	1	1	1
PL.3386	PL.2696	B	#4 ACSR	7.23Y	120.5	0.00	4.48	0.77	1	5	1	98	0.00	0.0	7.096	0.169	3	1	1	2
PL.3387	PL.3386	B	#4 ACSR	7.23Y	120.5	0.00	4.48	0.32	0	2	1	89	0.00	0.0	7.259	0.163	0	0	0	1
PL.3135	PL.3387	B	#4 ACSR	7.23Y	120.5	0.00	4.49	0.32	0	2	1	89	0.00	0.0	7.332	0.072	0	0	0	1
PL.3136	PL.3135	B	#4 ACSR	7.23Y	120.5	0.00	4.49	0.32	0	2	1	89	0.00	0.0	7.351	0.019	2	1	1	1
PL.2825	PL.2655	B	#4 ACSR	7.23Y	120.5	0.00	4.46	0.21	0	1	0	100	0.00	0.0	6.758	0.080	0	0	0	3
PL.2658	PL.2825	B	#4 ACSR	7.23Y	120.5	0.00	4.46	0.21	0	1	0	100	0.00	0.0	6.922	0.164	0	0	0	3
PL.2657	PL.2658	B	#4 ACSR	7.23Y	120.5	0.00	4.47	0.21	0	1	0	100	0.00	0.0	7.007	0.085	0	0	0	3
PL.3171	PL.2657	B	#4 ACSR	7.23Y	120.5	0.00	4.47	0.21	0	1	0	100	0.00	0.0	7.090	0.083	1	0	1	3
PL.3172	PL.3171	B	#4 ACSR	7.23Y	120.5	0.00	4.47	0.05	0	0	0	100	0.00	0.0	7.188	0.098	0	0	0	2

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2660	PL.3172	B	#4 ACSR	7.23Y	120.5	0.00	4.47	0.05	0	0	0	100	0.00	0.0	7.277	0.089	0	0	0	2
PL.3143	PL.2660	B	#4 ACSR	7.23Y	120.5	0.00	4.47	0.05	0	0	0	100	0.00	0.0	7.334	0.057	0	0	1	2
PL.3144	PL.3143	B	#4 ACSR	7.23Y	120.5	0.00	4.47	0.05	0	0	0	100	0.00	0.0	7.363	0.029	0	0	1	1
PL.2659	PL.2825	B	#2 ACSR	7.23Y	120.5	0.00	4.46	0.00	0	0	0	100	0.00	0.0	6.791	0.032	0	0	0	0
PL.10154	PL.2648	B	#2 ACSR	7.24Y	120.7	0.00	4.31	10.00	6	70	19	97	0.00	0.0	4.896	0.003	0	0	0	25
PD.1878	PL.10154	B	20T	7.24Y	120.7	0.00	4.31	10.00	0	70	19	97	0.00	0.0	4.896	0.003	0	0	0	25
PL.10155	PD.1878	B	#2 ACSR	7.24Y	120.7	0.04	4.35	10.00	6	70	19	97	0.02	0.0	5.032	0.136	0	0	0	25
PL.2875	PL.10155	B	#2 ACSR	7.24Y	120.6	0.03	4.38	10.00	6	70	19	97	0.02	0.0	5.140	0.107	0	0	0	25
PL.2661	PL.2875	B	#2 ACSR	7.24Y	120.6	0.02	4.40	10.00	6	70	19	97	0.01	0.0	5.199	0.060	0	0	0	25
PL.3127	PL.2661	B	#2 ACSR	7.24Y	120.6	0.01	4.42	8.92	5	62	17	96	0.01	0.0	5.247	0.047	0	0	0	23
PL.2663	PL.3127	B	#4 ACSR	7.24Y	120.6	0.00	4.42	0.58	0	4	1	97	0.00	0.0	5.278	0.032	4	1	1	1
PL.2664	PL.3127	B	#4 ACSR	7.24Y	120.6	0.00	4.42	0.57	0	4	1	97	0.00	0.0	5.315	0.069	4	1	3	3
PL.3128	PL.3127	B	#2 ACSR	7.23Y	120.5	0.04	4.45	7.77	4	54	15	96	0.01	0.0	5.393	0.146	0	0	0	19
PL.3149	PL.3128	B	#2 ACSR	7.23Y	120.5	0.02	4.47	7.77	4	54	15	96	0.01	0.0	5.462	0.069	3	1	1	19
PL.3150	PL.3149	B	#2 ACSR	7.23Y	120.5	0.01	4.48	7.38	4	51	14	96	0.00	0.0	5.517	0.055	7	2	1	18
PL.3129	PL.3150	B	#2 ACSR	7.23Y	120.5	0.01	4.49	6.34	4	44	12	96	0.00	0.0	5.581	0.064	0	0	0	16
PL.2824	PL.3129	B	#2 ACSR	7.23Y	120.5	0.00	4.49	0.76	0	5	1	98	0.00	0.0	5.651	0.071	0	0	0	1
PL.2667	PL.2824	B	#4 ACSR	7.23Y	120.5	0.00	4.49	0.76	1	5	1	98	0.00	0.0	5.667	0.015	5	1	1	1
PL.2666	PL.3129	B	#2 ACSR	7.23Y	120.5	0.01	4.50	5.58	3	39	11	96	0.00	0.0	5.641	0.061	28	8	7	15
PL.2668	PL.2666	B	#2 ACSR	7.23Y	120.5	0.00	4.50	1.60	1	11	3	96	0.00	0.0	5.699	0.057	3	1	1	8
PL.2669	PL.2668	B	#2 ACSR	7.23Y	120.5	0.00	4.50	1.22	1	9	2	98	0.00	0.0	5.750	0.052	2	1	3	7
PL.3147	PL.2669	B	#2 ACSR	7.23Y	120.5	0.00	4.51	0.90	1	6	2	95	0.00	0.0	5.873	0.123	0	0	1	4
PL.3148	PL.3147	B	#2 ACSR	7.23Y	120.5	0.00	4.51	0.85	0	6	2	95	0.00	0.0	5.995	0.122	0	0	0	3
PL.2876	PL.3148	B	#2 ACSR	7.23Y	120.5	0.00	4.51	0.85	0	6	2	95	0.00	0.0	6.105	0.109	0	0	0	3
PL.3051	PL.2876	B	#2 ACSR	7.23Y	120.5	0.00	4.52	0.85	0	6	2	95	0.00	0.0	6.245	0.141	2	1	1	3
PL.3146	PL.3051	B	#2 ACSR	7.23Y	120.5	0.00	4.52	0.51	0	4	1	97	0.00	0.0	6.344	0.099	4	1	2	2
PL.2665	PL.3150	B	#2 ACSR	7.23Y	120.5	0.00	4.48	0.05	0	0	0	100	0.00	0.0	5.551	0.034	0	0	1	1
PL.2662	PL.2661	B	#2 ACSR	7.24Y	120.6	0.00	4.40	1.08	1	8	2	97	0.00	0.0	5.230	0.030	8	2	2	2
PL.2640	PL.2637	B	#2 ACSR	7.25Y	120.9	0.00	4.11	4.28	2	30	8	97	0.00	0.0	4.508	0.036	30	8	4	4
PL.2641	PL.2637	B	#4 ACSR	7.25Y	120.9	0.00	4.11	0.43	0	3	1	95	0.00	0.0	4.517	0.045	3	1	2	2
PL.2638	PL.2636	B	#4 ACSR	7.25Y	120.9	0.00	4.08	1.85	1	13	4	96	0.00	0.0	4.498	0.066	13	4	1	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2631	PL.2626	B	#4 ACSR	7.27Y	121.2	0.00	3.84	0.00	0	0	0	100	0.00	0.0	4.201	0.054	0	0	0	0
PL.2625	PL.3152	B	#4 ACSR	7.28Y	121.3	0.01	3.72	2.51	2	18	5	96	0.00	0.0	4.108	0.095	5	1	2	7
PL.2627	PL.2625	B	#4 ACSR	7.28Y	121.3	0.00	3.72	1.86	1	13	4	96	0.00	0.0	4.136	0.028	7	2	2	5
PL.2628	PL.2627	B	#4 ACSR	7.28Y	121.3	0.00	3.72	0.80	1	6	2	95	0.00	0.0	4.199	0.063	1	0	1	3
PL.2629	PL.2628	B	#2 ACSR	7.28Y	121.3	0.00	3.72	0.68	0	5	1	98	0.00	0.0	4.233	0.034	5	1	2	2
PL.2620	PL.3119	B	#4 ACSR	7.31Y	121.8	0.00	3.23	1.07	1	8	2	97	0.00	0.0	3.613	0.026	8	2	1	1
PL.2616	PL.3593	B	#4 ACSR	7.36Y	122.6	0.00	2.40	1.33	1	9	3	95	0.00	0.0	3.078	0.084	9	3	2	2
PL.2614	PL.2872	ABC	#2 ACSR	7.36Y	122.7	0.08	2.27	72.70	42	1545	443	96	0.94	0.1	2.891	0.044	1	0	1	415
PL.2670	PL.2614	ABC	#2 ACSR	7.35Y	122.5	0.19	2.45	72.67	42	1543	442	96	2.20	0.1	2.994	0.102	11	3	1	414
PL.3164	PL.2670	ABC	#2 ACSR	7.35Y	122.5	0.05	2.50	72.17	41	1531	438	96	0.55	0.0	3.019	0.026	6	2	1	413
PL.3165	PL.3164	ABC	#2 ACSR	7.34Y	122.4	0.11	2.61	71.91	41	1524	436	96	1.25	0.1	3.079	0.059	21	6	4	412
PL.2671	PL.3165	ABC	#2 ACSR	7.34Y	122.3	0.07	2.68	70.90	41	1502	430	96	0.76	0.1	3.116	0.037	0	0	0	408
PL.3426	PL.2671	A	#4 ACSR	7.34Y	122.3	0.00	2.68	0.57	0	4	1	97	0.00	0.0	3.120	0.005	0	0	0	1
PD.376	PL.3426	A	40QA	7.34Y	122.3	0.00	2.68	0.57	1	4	1	97	0.00	0.0	3.120	0.005	0	0	0	1
PL.3427	PD.376	A	#4 ACSR	7.34Y	122.3	0.00	2.68	0.57	0	4	1	97	0.00	0.0	3.208	0.087	4	1	1	1
PL.2826	PL.2671	ABC	#2 ACSR	7.33Y	122.2	0.13	2.80	70.70	40	1497	428	96	1.46	0.1	3.188	0.072	13	4	1	407
PL.3428	PL.2826	A	#1/0 ACSR	7.33Y	122.2	0.00	2.80	4.82	2	34	9	97	0.00	0.0	3.192	0.005	0	0	0	14
PD.377	PL.3428	A	15T	7.33Y	122.2	0.00	2.80	4.82	0	34	9	97	0.00	0.0	3.192	0.005	0	0	0	14
PL.3429	PD.377	A	#1/0 ACSR	7.33Y	122.2	0.01	2.81	4.82	2	34	9	97	0.00	0.0	3.253	0.061	14	4	4	14
PL.2674	PL.3429	A	#4 ACSR	7.33Y	122.2	0.01	2.81	2.87	2	20	6	96	0.00	0.0	3.304	0.050	7	2	7	10
PL.2675	PL.2674	A	#4 ACSR	7.33Y	122.2	0.01	2.82	1.90	1	13	4	96	0.00	0.0	3.366	0.063	0	0	0	3
PL.2676	PL.2675	A	#4 ACSR	7.33Y	122.2	0.00	2.82	1.01	1	7	2	96	0.00	0.0	3.432	0.066	7	2	1	1
PL.2677	PL.2675	A	#4 ACSR	7.33Y	122.2	0.00	2.82	0.89	1	6	2	95	0.00	0.0	3.408	0.042	6	2	2	2
PL.2672	PL.2826	ABC	#2 ACSR	7.33Y	122.1	0.09	2.89	68.50	39	1449	414	96	1.02	0.1	3.241	0.053	0	0	0	392
PL.2673	PL.2672	ABC	#2 ACSR	7.33Y	122.1	0.00	2.90	68.50	39	1448	414	96	0.02	0.0	3.242	0.001	0	0	0	392
RG.4	PL.2673	ABC	114.3 KVA	7.47Y	124.4	-2.33	0.56	68.50	46	1448	414	96	percent Boost= 1.88 Tap= 3.0							392
PL.3046	RG.4	ABC	#2 ACSR	7.47Y	124.4	0.00	0.57	67.22	38	1448	414	96	0.02	0.0	3.243	0.001	0	0	0	392
PL.3047	PL.3046	ABC	#2 ACSR	7.46Y	124.3	0.10	0.66	67.22	38	1448	414	96	1.04	0.1	3.299	0.056	0	0	0	392
PL.3430	PL.3047	C	#1/0 ACSR	7.46Y	124.3	0.00	0.66	0.00	0	0	0	100	0.00	0.0	3.304	0.005	0	0	0	0
PD.378	PL.3430	C	40QA	7.46Y	124.3	0.00	0.66	0.00	0	0	0	100	0.00	0.0	3.304	0.005	0	0	0	0
PL.3431	PD.378	C	#1/0 ACSR	7.46Y	124.3	0.00	0.66	0.00	0	0	0	100	0.00	0.0	3.350	0.047	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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3432	PL.3047	ABC	#2 ACSR	7.46Y	124.3	0.01	0.67	67.22	38	1446	413	96	0.08	0.0	3.304	0.004	0	0	0	392
PL.3433	PL.3432	ABC	#2 ACSR	7.45Y	124.1	0.19	0.85	67.22	38	1446	413	96	2.02	0.1	3.413	0.109	0	0	0	392
PL.2679	PL.3433	ABC	#2 ACSR	7.44Y	124.0	0.18	1.03	67.22	38	1444	412	96	1.91	0.1	3.516	0.103	0	0	0	392
PL.2885	PL.2679	ABC	#2 ACSR	7.43Y	123.8	0.19	1.22	67.22	38	1442	411	96	2.09	0.1	3.629	0.113	0	0	0	392
PL.3396	PL.2885	C	6 A (CWC)	7.43Y	123.8	0.00	1.22	1.50	1	11	3	96	0.00	0.0	3.634	0.005	0	0	0	3
PD.361	PL.3396	C	40QA	7.43Y	123.8	0.00	1.22	1.50	4	11	3	96	0.00	0.0	3.634	0.005	0	0	0	3
PL.3397	PD.361	C	6 A (CWC)	7.43Y	123.8	0.00	1.23	1.50	1	11	3	96	0.00	0.0	3.726	0.092	11	3	3	3
PL.2827	PL.2885	ABC	#2 ACSR	7.42Y	123.6	0.13	1.35	66.72	38	1430	407	96	1.39	0.1	3.705	0.076	0	0	0	389
PL.3613	PL.2827	ABC	#2 ACSR	7.41Y	123.5	0.12	1.47	66.72	38	1428	406	96	1.33	0.1	3.778	0.073	0	0	0	389
PL.3614	PL.3613	ABC	#2 ACSR	7.41Y	123.4	0.09	1.56	66.72	38	1427	405	96	0.92	0.1	3.829	0.051	0	0	0	389
PL.2682	PL.3614	ABC	#2 ACSR	7.40Y	123.3	0.12	1.68	66.12	38	1413	401	96	1.27	0.1	3.900	0.071	9	2	2	384
PL.2683	PL.2682	ABC	#2 ACSR	7.39Y	123.2	0.08	1.76	65.72	38	1403	398	96	0.85	0.1	3.948	0.048	0	0	0	382
PL.2685	PL.2683	ABC	#2 ACSR	7.39Y	123.2	0.08	1.84	46.86	27	1000	285	96	0.62	0.1	4.018	0.069	0	0	0	255
PL.2686	PL.2685	ABC	#2 ACSR	7.38Y	123.0	0.11	1.95	46.86	27	999	285	96	0.85	0.1	4.113	0.095	0	0	0	255
PL.2843	PL.2686	ABC	#2 ACSR	7.38Y	122.9	0.10	2.06	46.57	27	992	283	96	0.78	0.1	4.200	0.087	0	0	0	254
PL.3605	PL.2843	ABC	#2 ACSR	7.37Y	122.8	0.10	2.16	46.57	27	991	282	96	0.75	0.1	4.285	0.085	0	0	0	254
PD.437	PL.3605	ABC	70L	7.37Y	122.8	0.00	2.16	46.57	67	991	282	96	0.00	0.0	4.285	0.085	0	0	0	254
PL.3606	PD.437	ABC	#2 ACSR	7.37Y	122.8	0.01	2.17	46.57	27	991	282	96	0.11	0.0	4.297	0.012	6	2	2	254
PL.3213	PL.3606	ABC	#2 ACSR	7.36Y	122.7	0.11	2.28	46.28	26	984	280	96	0.83	0.1	4.392	0.095	9	3	2	252
PL.3189	PL.3213	ABC	#2 ACSR	7.36Y	122.6	0.11	2.39	45.84	26	974	277	96	0.81	0.1	4.486	0.094	0	0	0	250
PL.3191	PL.3189	ABC	#2 ACSR	7.35Y	122.6	0.04	2.43	45.84	26	973	277	96	0.30	0.0	4.520	0.035	0	0	0	250
PL.3192	PL.3191	ABC	#2 ACSR	7.35Y	122.5	0.09	2.52	45.84	26	973	276	96	0.64	0.1	4.595	0.074	4	1	2	250
PL.3190	PL.3192	ABC	#2 ACSR	7.34Y	122.4	0.10	2.62	45.63	26	968	275	96	0.76	0.1	4.683	0.089	0	0	0	248
PL.2844	PL.3190	ABC	#2 ACSR	7.34Y	122.3	0.09	2.71	45.00	26	954	271	96	0.63	0.1	4.760	0.076	0	0	0	244
PL.3458	PL.2844	A	6 A (CWC)	7.34Y	122.3	0.00	2.71	9.35	7	66	18	96	0.00	0.0	4.764	0.005	0	0	0	10
PD.391	PL.3458	A	40QA	7.34Y	122.3	0.00	2.71	9.35	23	66	18	96	0.00	0.0	4.764	0.005	0	0	0	10
PL.3459	PD.391	A	6 A (CWC)	7.34Y	122.3	0.02	2.73	9.35	7	66	18	96	0.01	0.0	4.816	0.052	0	0	0	10
PL.3193	PL.3459	A	6 A (CWC)	7.34Y	122.3	0.01	2.74	9.35	7	66	18	96	0.01	0.0	4.850	0.034	16	4	1	10
PL.3194	PL.3193	A	6 A (CWC)	7.33Y	122.2	0.01	2.76	7.09	5	50	14	96	0.00	0.0	4.892	0.041	11	3	1	9
PL.3195	PL.3194	A	6 A (CWC)	7.33Y	122.2	0.01	2.77	5.50	4	39	11	96	0.00	0.0	4.942	0.050	0	0	0	8
PL.3196	PL.3195	A	6 A (CWC)	7.33Y	122.2	0.00	2.77	5.50	4	39	11	96	0.00	0.0	4.959	0.017	6	2	1	8

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3197	PL.3196	A	6 A (CWC)	7.33Y	122.2	0.01	2.78	4.67	3	33	9	96	0.00	0.0	5.027	0.068	21	6	4	7
PL.3198	PL.3197	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	1.74	1	12	3	97	0.00	0.0	5.045	0.019	0	0	0	3
PL.2687	PL.3198	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.95	1	7	2	96	0.00	0.0	5.077	0.032	7	2	1	1
PL.3199	PL.3198	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.80	1	6	2	95	0.00	0.0	5.090	0.044	0	0	0	2
PL.3200	PL.3199	A	6 A (CWC)	7.33Y	122.2	0.00	2.79	0.80	1	6	2	95	0.00	0.0	5.158	0.068	6	2	2	2
PL.2845	PL.2844	ABC	#2 ACSR	7.33Y	122.2	0.11	2.81	41.89	24	887	252	96	0.74	0.1	4.862	0.103	0	0	0	234
PL.2688	PL.2845	ABC	#2 ACSR	7.33Y	122.1	0.08	2.90	41.89	24	886	252	96	0.57	0.1	4.941	0.079	1	0	3	234
PL.2689	PL.2688	C	#4 ACSR	7.33Y	122.1	0.00	2.90	2.55	2	18	5	96	0.00	0.0	4.985	0.044	12	3	3	4
PL.2690	PL.2689	C	#4 ACSR	7.33Y	122.1	0.00	2.90	0.88	1	6	2	95	0.00	0.0	5.019	0.034	6	2	1	1
PL.3214	PL.2688	ABC	#2 ACSR	7.32Y	122.0	0.09	2.99	40.98	23	866	246	96	0.59	0.1	5.027	0.086	1	0	1	227
PL.3215	PL.3214	ABC	#2 ACSR	7.32Y	121.9	0.06	3.05	40.94	23	865	246	96	0.43	0.0	5.090	0.062	0	0	0	226
PL.3470	PL.3215	A	#4 ACSR	7.32Y	121.9	0.00	3.05	0.90	1	6	2	95	0.00	0.0	5.094	0.005	0	0	0	1
PD.398	PL.3470	A	40QA	7.32Y	121.9	0.00	3.05	0.90	2	6	2	95	0.00	0.0	5.094	0.005	0	0	0	1
PL.3471	PD.398	A	#4 ACSR	7.32Y	121.9	0.00	3.05	0.90	1	6	2	95	0.00	0.0	5.130	0.036	6	2	1	1
PL.3216	PL.3215	ABC	#2 ACSR	7.31Y	121.8	0.13	3.18	40.64	23	858	244	96	0.85	0.1	5.216	0.126	8	2	1	225
PL.3217	PL.3216	ABC	#2 ACSR	7.30Y	121.7	0.10	3.28	40.24	23	849	241	96	0.62	0.1	5.309	0.094	0	0	0	224
PL.2996	PL.3217	ABC	#2 ACSR	7.30Y	121.6	0.07	3.35	40.24	23	848	240	96	0.48	0.1	5.381	0.072	0	0	0	224
PL.3067	PL.2996	ABC	#2 ACSR	7.29Y	121.5	0.14	3.49	40.24	23	848	240	96	0.88	0.1	5.515	0.133	0	0	0	224
PL.2997	PL.3067	ABC	#2 ACSR	7.28Y	121.4	0.16	3.65	40.24	23	847	240	96	1.07	0.1	5.676	0.161	0	0	0	224
PL.2998	PL.2997	ABC	#2 ACSR	7.27Y	121.2	0.11	3.76	40.24	23	846	239	96	0.74	0.1	5.787	0.111	0	0	0	224
PL.2712	PL.2998	ABC	#2 ACSR	7.27Y	121.1	0.11	3.88	40.24	23	845	239	96	0.74	0.1	5.899	0.111	0	0	0	224
PL.3570	PL.2712	C	6 A (CWC)	7.27Y	121.1	0.00	3.88	1.96	1	14	4	96	0.00	0.0	5.903	0.005	0	0	0	2
PD.420	PL.3570	C	40QA	7.27Y	121.1	0.00	3.88	1.96	5	14	4	96	0.00	0.0	5.903	0.005	0	0	0	2
PL.3571	PD.420	C	6 A (CWC)	7.27Y	121.1	0.00	3.88	1.96	1	14	4	96	0.00	0.0	5.961	0.058	14	4	2	2
PL.2919	PL.2712	ABC	#2 ACSR	7.27Y	121.1	0.04	3.91	39.59	23	831	234	96	0.24	0.0	5.936	0.038	0	0	2	222
PL.3611	PL.2919	ABC	#2 ACSR	7.26Y	121.0	0.07	3.99	39.59	23	830	234	96	0.48	0.1	6.010	0.074	0	0	0	220
PL.3612	PL.3611	ABC	#2 ACSR	7.25Y	120.9	0.10	4.09	39.59	23	830	234	96	0.66	0.1	6.113	0.103	0	0	0	220
PL.3130	PL.3612	ABC	#2 ACSR	7.25Y	120.8	0.09	4.18	39.42	23	826	233	96	0.58	0.1	6.205	0.092	9	2	2	217
PL.3572	PL.3130	C	6 A (CWC)	7.25Y	120.8	0.00	4.18	4.83	3	34	9	97	0.00	0.0	6.210	0.005	0	0	0	5
PD.421	PL.3572	C	40QA	7.25Y	120.8	0.00	4.18	4.83	12	34	9	97	0.00	0.0	6.210	0.005	0	0	0	5
PL.3573	PD.421	C	6 A (CWC)	7.25Y	120.8	0.01	4.19	4.83	3	34	9	97	0.00	0.0	6.268	0.058	34	9	5	5

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3444	PL.3130	B	6 A (CWC)	7.25Y	120.8	0.01	4.19	12.00	9	84	23	96	0.01	0.0	6.224	0.019	0	0	0	27
PD.384	PL.3444	B	25T	7.25Y	120.8	0.00	4.19	12.00	0	84	23	96	0.00	0.0	6.224	0.019	0	0	0	27
PL.3445	PD.384	B	6 A (CWC)	7.25Y	120.8	0.03	4.22	12.00	9	84	23	96	0.02	0.0	6.277	0.053	3	1	2	27
PL.2925	PL.3445	B	6 A (CWC)	7.25Y	120.8	0.01	4.23	11.63	8	81	22	97	0.00	0.0	6.289	0.012	9	2	2	25
PL.2924	PL.2925	B	6 A (CWC)	7.24Y	120.7	0.05	4.28	10.42	7	73	20	96	0.03	0.0	6.406	0.117	9	2	1	23
PL.2714	PL.2924	B	6 A (CWC)	7.24Y	120.7	0.04	4.32	9.15	7	64	18	96	0.02	0.0	6.493	0.087	0	0	0	22
PL.2715	PL.2714	B	#4 ACSR	7.24Y	120.7	0.00	4.32	0.32	0	2	1	89	0.00	0.0	6.539	0.046	2	1	1	1
PL.2926	PL.2714	B	6 A (CWC)	7.24Y	120.6	0.04	4.35	8.83	6	62	17	96	0.02	0.0	6.589	0.096	10	3	2	21
PL.2927	PL.2926	B	6 A (CWC)	7.24Y	120.6	0.02	4.37	7.35	5	51	14	96	0.01	0.0	6.648	0.059	8	2	1	19
PL.2928	PL.2927	B	6 A (CWC)	7.24Y	120.6	0.01	4.38	6.26	4	44	12	96	0.00	0.0	6.690	0.043	10	3	3	18
PL.2922	PL.2928	B	#4 ACSR	7.24Y	120.6	0.01	4.39	4.85	4	34	9	97	0.00	0.0	6.727	0.036	12	3	1	15
PL.2923	PL.2922	B	#4 ACSR	7.24Y	120.6	0.01	4.40	3.13	2	22	6	96	0.00	0.0	6.831	0.104	2	1	1	14
PL.2911	PL.2923	B	#4 ACSR	7.24Y	120.6	0.01	4.41	2.82	2	20	5	97	0.00	0.0	6.904	0.073	0	0	0	13
PL.2912	PL.2911	B	#4 ACSR	7.23Y	120.6	0.02	4.43	2.82	2	20	5	97	0.00	0.0	7.024	0.120	0	0	0	13
PL.2913	PL.2912	B	#4 ACSR	7.23Y	120.6	0.01	4.44	2.82	2	20	5	97	0.00	0.0	7.100	0.076	0	0	0	13
PL.2914	PL.2913	B	#4 ACSR	7.23Y	120.5	0.02	4.45	2.82	2	20	5	97	0.00	0.0	7.240	0.141	0	0	0	13
PL.2846	PL.2914	B	#4 ACSR	7.23Y	120.5	0.01	4.46	1.75	1	12	3	97	0.00	0.0	7.317	0.076	0	0	0	7
PL.2716	PL.2846	B	#4 ACSR	7.23Y	120.5	0.01	4.47	1.75	1	12	3	97	0.00	0.0	7.448	0.131	0	0	0	7
PL.3068	PL.2716	B	#4 ACSR	7.23Y	120.5	0.01	4.48	1.75	1	12	3	97	0.00	0.0	7.535	0.087	0	0	0	7
PL.3002	PL.3068	B	#4 ACSR	7.23Y	120.5	0.01	4.49	1.75	1	12	3	97	0.00	0.0	7.672	0.137	0	0	0	7
PL.3140	PL.3002	B	#4 ACSR	7.23Y	120.5	0.01	4.50	1.75	1	12	3	97	0.00	0.0	7.783	0.111	0	0	0	7
PL.2718	PL.3140	B	#4 ACSR	7.23Y	120.5	0.00	4.50	1.00	1	7	2	96	0.00	0.0	7.860	0.077	0	0	0	4
PL.2717	PL.2718	B	#4 ACSR	7.23Y	120.5	0.00	4.50	1.00	1	7	2	96	0.00	0.0	7.953	0.093	0	0	0	4
PL.3069	PL.2717	B	#4 ACSR	7.23Y	120.5	0.01	4.51	1.00	1	7	2	96	0.00	0.0	8.068	0.115	0	0	0	4
PL.3003	PL.3069	B	#4 ACSR	7.23Y	120.5	0.01	4.51	1.00	1	7	2	96	0.00	0.0	8.197	0.130	0	0	0	4
PL.3070	PL.3003	B	#4 ACSR	7.23Y	120.5	0.00	4.52	1.00	1	7	2	96	0.00	0.0	8.301	0.104	0	0	0	4
PL.3004	PL.3070	B	#4 ACSR	7.23Y	120.5	0.01	4.53	1.00	1	7	2	96	0.00	0.0	8.450	0.149	0	0	0	4
PL.3005	PL.3004	B	#4 ACSR	7.23Y	120.5	0.00	4.53	1.00	1	7	2	96	0.00	0.0	8.527	0.077	0	0	0	4
PL.3071	PL.3005	B	#4 ACSR	7.23Y	120.5	0.00	4.53	1.00	1	7	2	96	0.00	0.0	8.625	0.098	0	0	0	4
PL.3006	PL.3071	B	#4 ACSR	7.23Y	120.5	0.00	4.54	1.00	1	7	2	96	0.00	0.0	8.732	0.107	0	0	0	4
PL.3177	PL.3006	B	#4 ACSR	7.23Y	120.5	0.01	4.55	1.00	1	7	2	96	0.00	0.0	8.901	0.169	0	0	0	4

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3178	PL.3177	B	#4 ACSR	7.23Y	120.5	0.00	4.55	1.00	1	7	2	96	0.00	0.0	8.996	0.095	0	0	0	4
PL.3072	PL.3178	B	#4 ACSR	7.23Y	120.4	0.00	4.55	1.00	1	7	2	96	0.00	0.0	9.086	0.091	0	0	0	4
PL.2719	PL.3072	B	#4 ACSR	7.23Y	120.4	0.01	4.56	1.00	1	7	2	96	0.00	0.0	9.245	0.158	0	0	0	4
PL.3007	PL.2719	B	#4 ACSR	7.23Y	120.4	0.01	4.57	1.00	1	7	2	96	0.00	0.0	9.361	0.116	0	0	0	4
PL.3175	PL.3007	B	#4 ACSR	7.23Y	120.4	0.00	4.57	1.00	1	7	2	96	0.00	0.0	9.415	0.054	4	1	1	4
PL.3176	PL.3175	B	#4 ACSR	7.23Y	120.4	0.00	4.57	0.40	0	3	1	95	0.00	0.0	9.505	0.090	0	0	0	3
PL.3073	PL.3176	B	#4 ACSR	7.23Y	120.4	0.00	4.57	0.40	0	3	1	95	0.00	0.0	9.593	0.089	0	0	0	3
PL.3008	PL.3073	B	#4 ACSR	7.23Y	120.4	0.00	4.57	0.40	0	3	1	95	0.00	0.0	9.754	0.160	0	0	0	3
PL.3173	PL.3008	B	#4 ACSR	7.23Y	120.4	0.00	4.58	0.34	0	2	1	89	0.00	0.0	9.889	0.135	2	0	1	2
PL.3174	PL.3173	B	#4 ACSR	7.23Y	120.4	0.00	4.58	0.12	0	1	0	100	0.00	0.0	10.018	0.129	0	0	0	1
PL.3009	PL.3174	B	#4 ACSR	7.23Y	120.4	0.00	4.58	0.12	0	1	0	100	0.00	0.0	10.171	0.153	1	0	1	1
PL.2720	PL.3008	B	#4 ACSR	7.23Y	120.4	0.00	4.57	0.06	0	0	0	100	0.00	0.0	9.805	0.051	0	0	1	1
PL.3141	PL.3140	B	#4 ACSR	7.23Y	120.5	0.00	4.50	0.74	1	5	1	98	0.00	0.0	7.810	0.027	5	1	3	3
PL.3440	PL.2914	B	#4 ACSR	7.23Y	120.5	0.00	4.45	1.07	1	7	2	96	0.00	0.0	7.245	0.005	0	0	0	6
PD.382	PL.3440	B	10T	7.23Y	120.5	0.00	4.45	1.07	0	7	2	96	0.00	0.0	7.245	0.005	0	0	0	6
PL.3441	PD.382	B	#4 ACSR	7.23Y	120.5	0.01	4.46	1.07	1	7	2	96	0.00	0.0	7.359	0.114	0	0	0	6
PL.2999	PL.3441	B	#4 ACSR	7.23Y	120.5	0.01	4.47	1.07	1	7	2	96	0.00	0.0	7.496	0.137	0	0	0	6
PL.3000	PL.2999	B	#4 ACSR	7.23Y	120.5	0.01	4.47	1.07	1	7	2	96	0.00	0.0	7.609	0.113	0	0	0	6
PL.3001	PL.3000	B	#4 ACSR	7.23Y	120.5	0.00	4.48	1.07	1	7	2	96	0.00	0.0	7.714	0.105	0	0	0	6
PL.2915	PL.3001	B	#4 ACSR	7.23Y	120.5	0.00	4.48	1.07	1	7	2	96	0.00	0.0	7.797	0.083	2	1	2	6
PL.2917	PL.2915	B	#4 ACSR	7.23Y	120.5	0.00	4.48	0.74	1	5	1	98	0.00	0.0	7.928	0.132	3	1	2	4
PL.2918	PL.2917	B	#4 ACSR	7.23Y	120.5	0.00	4.48	0.27	0	2	1	89	0.00	0.0	8.006	0.078	0	0	0	2
PL.2916	PL.2918	B	#4 ACSR	7.23Y	120.5	0.00	4.48	0.27	0	2	1	89	0.00	0.0	8.095	0.089	2	1	2	2
PL.3131	PL.3130	ABC	#2 ACSR	7.24Y	120.7	0.09	4.27	33.39	19	699	197	96	0.49	0.1	6.312	0.107	0	0	0	183
PL.3442	PL.3131	B	#2 ACSR	7.24Y	120.7	0.00	4.27	4.60	3	32	9	96	0.00	0.0	6.317	0.005	0	0	0	6
PD.383	PL.3442	B	40QA	7.24Y	120.7	0.00	4.27	4.60	11	32	9	96	0.00	0.0	6.317	0.005	0	0	0	6
PL.3443	PD.383	B	#2 ACSR	7.24Y	120.7	0.01	4.28	4.60	3	32	9	96	0.00	0.0	6.361	0.044	0	0	0	6
PL.2920	PL.3443	B	#2 ACSR	7.24Y	120.7	0.00	4.28	4.60	3	32	9	96	0.00	0.0	6.394	0.033	3	1	2	6
PL.2921	PL.2920	B	#2 ACSR	7.24Y	120.7	0.01	4.29	4.15	2	29	8	96	0.00	0.0	6.485	0.091	11	3	1	4
PL.2725	PL.2921	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.525	0.039	0	0	1	1
PL.33079	PL.2725	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.583	0.058	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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33080	PL.33079	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.656	0.073	0	0	0	0
PL.33081	PL.33080	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.704	0.048	0	0	0	0
PL.33083	PL.33081	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.706	0.001	0	0	0	0
PD.4894	PL.33083	B	10T	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.706	0.001	0	0	0	0
PL.33084	PD.4894	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.751	0.046	0	0	0	0
PL.33085	PL.33084	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.803	0.052	0	0	0	0
PL.33086	PL.33085	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.854	0.050	0	0	0	0
PL.33087	PL.33086	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.896	0.042	0	0	0	0
PL.33088	PL.33087	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.935	0.039	0	0	0	0
PL.33089	PL.33088	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	6.978	0.043	0	0	0	0
PL.33090	PL.33089	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.044	0.067	0	0	0	0
PL.33091	PL.33090	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.099	0.055	0	0	0	0
PL.33092	PL.33091	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.138	0.039	0	0	0	0
PL.33093	PL.33092	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.194	0.056	0	0	0	0
PL.33094	PL.33093	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.254	0.060	0	0	0	0
PL.33095	PL.33094	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.335	0.080	0	0	0	0
PL.33096	PL.33095	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.379	0.045	0	0	0	0
PL.33097	PL.33096	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.426	0.047	0	0	0	0
PL.33098	PL.33097	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.469	0.042	0	0	0	0
PL.33099	PL.33098	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.492	0.023	0	0	0	0
PL.33100	PL.33099	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.522	0.030	0	0	0	0
PL.33101	PL.33100	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.582	0.060	0	0	0	0
PL.33102	PL.33101	B	#1/0 ACSR	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.627	0.045	0	0	0	0
PL.33103	PL.33102	B	1/0 AL URD	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	7.672	0.045	0	0	0	0
PL.2724	PL.2921	B	#2 ACSR	7.24Y	120.7	0.00	4.30	2.55	1	18	5	96	0.00	0.0	6.511	0.026	18	5	2	2
PL.2847	PL.3131	ABC	#2 ACSR	7.24Y	120.7	0.07	4.34	31.86	18	666	188	96	0.34	0.1	6.396	0.084	7	2	1	177
PL.2721	PL.2847	ABC	#2 ACSR	7.23Y	120.6	0.08	4.42	31.41	18	656	186	96	0.42	0.1	6.501	0.105	0	0	0	175
PL.3010	PL.2721	ABC	#2 ACSR	7.23Y	120.5	0.08	4.51	31.41	18	656	185	96	0.42	0.1	6.606	0.105	0	0	0	175
PL.2723	PL.3010	C	6 A (CWC)	7.23Y	120.5	0.01	4.52	4.04	3	28	8	96	0.00	0.0	6.724	0.118	28	8	4	4
PL.3448	PL.2723	C	#4 ACSR	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	6.728	0.005	0	0	0	0
PD.386	PL.3448	C	40QA	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	6.728	0.005	0	0	0	0

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3449	PD.386	C	#4 ACSR	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	6.763	0.035	0	0	0	0
PL.2931	PL.3010	ABC	#2 ACSR	7.23Y	120.4	0.06	4.56	30.06	17	627	177	96	0.27	0.0	6.679	0.073	5	1	1	171
PL.2932	PL.2931	ABC	#2 ACSR	7.22Y	120.4	0.07	4.63	29.81	17	622	176	96	0.32	0.1	6.767	0.088	0	0	0	170
PL.3074	PL.2932	ABC	#2 ACSR	7.22Y	120.3	0.08	4.71	29.81	17	622	176	96	0.40	0.1	6.876	0.109	0	0	0	170
PL.2929	PL.3074	ABC	#2 ACSR	7.21Y	120.2	0.08	4.79	29.81	17	621	175	96	0.37	0.1	6.978	0.101	0	0	0	170
PL.2930	PL.2929	ABC	#2 ACSR	7.21Y	120.1	0.08	4.86	29.81	17	621	175	96	0.36	0.1	7.078	0.100	0	0	0	170
PL.3075	PL.2930	ABC	#2 ACSR	7.20Y	120.1	0.06	4.92	29.81	17	621	175	96	0.29	0.0	7.156	0.079	0	0	0	170
PL.3011	PL.3075	ABC	#2 ACSR	7.20Y	120.0	0.07	4.99	29.81	17	620	175	96	0.33	0.1	7.248	0.091	0	0	0	170
PL.3012	PL.3011	ABC	#2 ACSR	7.20Y	120.0	0.06	5.05	29.81	17	620	175	96	0.28	0.0	7.324	0.076	3	1	2	170
PL.3187	PL.3012	ABC	#2 ACSR	7.19Y	119.9	0.05	5.10	29.67	17	617	174	96	0.23	0.0	7.389	0.065	2	1	1	168
PL.3188	PL.3187	ABC	#2 ACSR	7.19Y	119.8	0.07	5.17	29.58	17	615	173	96	0.35	0.1	7.485	0.097	0	0	0	167
PL.3133	PL.3188	ABC	#2 ACSR	7.19Y	119.8	0.07	5.24	29.58	17	614	173	96	0.35	0.1	7.583	0.097	0	0	1	167
PL.3390	PL.3133	C	6 A (CWC)	7.19Y	119.8	0.00	5.24	0.00	0	0	0	100	0.00	0.0	7.587	0.005	0	0	0	0
PL.3134	PL.3133	ABC	#2 ACSR	7.18Y	119.7	0.08	5.33	29.57	17	614	173	96	0.40	0.1	7.694	0.112	0	0	0	166
PL.2726	PL.3134	ABC	#1/0 ACSR	7.18Y	119.6	0.06	5.38	29.57	13	613	172	96	0.25	0.0	7.803	0.109	0	0	0	166
PL.2727	PL.2726	C	6 A (CWC)	7.17Y	119.5	0.12	5.50	33.52	24	232	65	96	0.21	0.1	7.881	0.078	10	3	2	59
PL.3615	PL.2727	C	6 A (CWC)	7.16Y	119.4	0.11	5.61	32.05	23	221	62	96	0.19	0.1	7.957	0.076	0	0	0	57
RG.3	PL.3615	C	76.2 KVA	7.44Y	124.0	-4.65	0.96	32.05	32	221	62	96	percent Boost= 0.00 Tap= 0.0							57
PL.3616	RG.3	C	6 A (CWC)	7.44Y	124.0	0.09	1.05	30.85	22	221	62	96	0.14	0.1	8.019	0.063	0	0	0	57
PD.431	PL.3616	C	50L	7.44Y	124.0	0.00	1.05	30.85	62	221	62	96	0.00	0.0	8.019	0.063	0	0	0	57
PL.3594	PD.431	C	6 A (CWC)	7.42Y	123.7	0.24	1.28	30.85	22	221	62	96	0.39	0.2	8.186	0.167	0	0	0	57
PL.2729	PL.3594	C	#4 ACSR	7.42Y	123.7	0.00	1.29	0.35	0	3	1	95	0.00	0.0	8.267	0.081	3	1	2	2
PL.3138	PL.3594	C	6 A (CWC)	7.41Y	123.5	0.19	1.47	30.49	22	218	61	96	0.31	0.1	8.322	0.136	0	0	0	55
PL.3139	PL.3138	C	6 A (CWC)	7.41Y	123.5	0.06	1.53	30.12	22	215	60	96	0.09	0.0	8.363	0.041	0	0	0	54
PL.3182	PL.3139	C	6 A (CWC)	7.40Y	123.3	0.18	1.71	30.12	22	215	60	96	0.29	0.1	8.496	0.133	4	1	1	54
PL.3183	PL.3182	C	6 A (CWC)	7.39Y	123.2	0.13	1.85	29.60	21	211	59	96	0.21	0.1	8.595	0.100	0	0	0	53
PL.3306	PL.3183	C	6 A (CWC)	7.38Y	123.0	0.12	1.96	29.60	21	211	59	96	0.18	0.1	8.681	0.085	0	0	1	53
PL.3307	PL.3306	C	6 A (CWC)	7.38Y	123.0	0.08	2.04	29.60	21	210	59	96	0.12	0.1	8.740	0.059	8	2	1	52
PL.3305	PL.3307	C	6 A (CWC)	7.37Y	122.8	0.12	2.16	28.43	20	202	57	96	0.18	0.1	8.832	0.091	0	0	0	51
PL.3013	PL.3305	C	6 A (CWC)	7.36Y	122.7	0.13	2.29	28.43	20	202	56	96	0.20	0.1	8.931	0.099	0	0	0	51
PL.3132	PL.3013	C	6 A (CWC)	7.35Y	122.5	0.19	2.48	27.96	20	198	55	96	0.28	0.1	9.088	0.157	18	5	6	49

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3319	PL.3132	C	6 A (CWC)	7.35Y	122.4	0.10	2.58	24.09	17	171	48	96	0.12	0.1	9.180	0.093	10	3	3	41
PL.3320	PL.3319	C	6 A (CWC)	7.34Y	122.4	0.05	2.63	22.70	16	161	45	96	0.06	0.0	9.232	0.052	6	2	2	38
PL.3321	PL.3320	C	6 A (CWC)	7.34Y	122.3	0.03	2.67	21.90	16	155	43	96	0.04	0.0	9.265	0.033	7	2	1	36
PL.3318	PL.3321	C	6 A (CWC)	7.34Y	122.3	0.06	2.73	20.92	15	148	41	96	0.07	0.0	9.333	0.068	0	0	0	35
PL.3324	PL.3318	C	6 A (CWC)	7.33Y	122.2	0.07	2.80	20.92	15	148	41	96	0.07	0.1	9.405	0.071	4	1	1	35
PL.3325	PL.3324	C	6 A (CWC)	7.33Y	122.2	0.05	2.85	20.33	15	144	40	96	0.05	0.0	9.459	0.054	0	0	0	34
PL.3326	PL.3325	C	6 A (CWC)	7.33Y	122.1	0.05	2.90	20.33	15	144	40	96	0.05	0.0	9.515	0.057	6	2	1	34
PL.3323	PL.3326	C	6 A (CWC)	7.32Y	122.0	0.08	2.98	19.45	14	137	38	96	0.08	0.1	9.606	0.091	8	2	2	33
PL.3322	PL.3323	C	6 A (CWC)	7.32Y	121.9	0.07	3.05	18.29	13	129	36	96	0.07	0.1	9.693	0.087	0	0	0	31
PL.3076	PL.3322	C	6 A (CWC)	7.31Y	121.8	0.10	3.16	18.29	13	129	36	96	0.10	0.1	9.815	0.123	0	0	0	31
PL.3014	PL.3076	C	6 A (CWC)	7.31Y	121.8	0.08	3.23	18.29	13	129	36	96	0.08	0.1	9.910	0.095	0	0	0	31
PL.3336	PL.3014	C	6 A (CWC)	7.30Y	121.7	0.07	3.30	18.29	13	129	36	96	0.07	0.1	9.994	0.084	2	1	1	31
PL.3337	PL.3336	C	6 A (CWC)	7.30Y	121.6	0.05	3.36	18.00	13	127	35	96	0.05	0.0	10.058	0.064	0	0	0	30
PL.3334	PL.3337	C	6 A (CWC)	7.29Y	121.6	0.09	3.45	18.00	13	127	35	96	0.08	0.1	10.168	0.109	5	2	1	30
PL.3335	PL.3334	C	6 A (CWC)	7.29Y	121.5	0.07	3.52	17.23	12	121	34	96	0.07	0.1	10.260	0.092	0	0	0	29
PL.3137	PL.3335	C	6 A (CWC)	7.29Y	121.4	0.04	3.55	17.23	12	121	34	96	0.03	0.0	10.306	0.047	4	1	1	29
PL.2747	PL.3137	C	6 A (CWC)	7.29Y	121.4	0.00	3.56	0.93	1	7	2	96	0.00	0.0	10.409	0.103	0	0	0	1
PL.3015	PL.2747	C	6 A (CWC)	7.29Y	121.4	0.01	3.56	0.93	1	7	2	96	0.00	0.0	10.529	0.120	0	0	0	1
PL.3016	PL.3015	C	6 A (CWC)	7.29Y	121.4	0.00	3.57	0.93	1	7	2	96	0.00	0.0	10.644	0.115	7	2	1	1
PL.3328	PL.3137	C	6 A (CWC)	7.28Y	121.4	0.05	3.60	15.69	11	110	31	96	0.04	0.0	10.374	0.067	9	2	1	27
PL.3329	PL.3328	C	6 A (CWC)	7.28Y	121.4	0.04	3.64	14.44	10	101	28	96	0.03	0.0	10.445	0.072	14	4	3	26
PL.3327	PL.3329	C	6 A (CWC)	7.28Y	121.3	0.04	3.68	12.46	9	87	24	96	0.02	0.0	10.511	0.066	11	3	1	23
PL.3330	PL.3327	C	6 A (CWC)	7.28Y	121.3	0.02	3.70	10.89	8	76	21	96	0.01	0.0	10.562	0.051	8	2	4	22
PL.3331	PL.3330	C	6 A (CWC)	7.27Y	121.2	0.05	3.75	9.69	7	68	19	96	0.03	0.0	10.674	0.112	0	0	0	18
PL.2748	PL.3331	C	6 A (CWC)	7.27Y	121.2	0.00	3.75	0.00	0	0	0	100	0.00	0.0	10.741	0.067	0	0	1	1
PL.2749	PL.3331	C	6 A (CWC)	7.27Y	121.2	0.04	3.80	9.68	7	68	19	96	0.02	0.0	10.774	0.101	0	0	0	17
PL.2750	PL.2749	C	6 A (CWC)	7.27Y	121.2	0.00	3.80	0.82	1	6	2	95	0.00	0.0	10.833	0.059	2	1	1	2
PL.2938	PL.2750	C	#1/0 ACSR	7.27Y	121.2	0.00	3.80	0.54	0	4	1	97	0.00	0.0	10.838	0.005	0	0	0	1
PD.408	PL.2938	C	40QA	7.27Y	121.2	0.00	3.80	0.54	1	4	1	97	0.00	0.0	10.838	0.005	0	0	0	1
PL.2939	PD.408	C	#1/0 ACSR	7.27Y	121.2	0.00	3.80	0.54	0	4	1	97	0.00	0.0	11.000	0.163	0	0	0	1
PL.3017	PL.2939	C	#1/0 ACSR	7.27Y	121.2	0.00	3.80	0.54	0	4	1	97	0.00	0.0	11.159	0.159	0	0	0	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3018	PL.3017	C	#1/0 ACSR	7.27Y	121.2	0.00	3.81	0.54	0	4	1	97	0.00	0.0	11.314	0.156	0	0	0	1
PL.3077	PL.3018	C	#1/0 ACSR	7.27Y	121.2	0.00	3.81	0.54	0	4	1	97	0.00	0.0	11.396	0.082	0	0	0	1
PL.3019	PL.3077	C	#1/0 ACSR	7.27Y	121.2	0.00	3.81	0.54	0	4	1	97	0.00	0.0	11.500	0.104	4	1	1	1
PL.2848	PL.2749	C	6 A (CWC)	7.27Y	121.2	0.05	3.84	8.87	6	62	17	96	0.02	0.0	10.887	0.113	0	0	0	15
PL.3332	PL.2848	C	#4 ACSR	7.27Y	121.2	0.00	3.85	1.56	1	11	3	96	0.00	0.0	10.967	0.080	8	2	2	3
PL.3333	PL.3332	C	#4 ACSR	7.27Y	121.2	0.00	3.85	0.36	0	3	1	95	0.00	0.0	11.013	0.046	0	0	0	1
PL.2752	PL.3333	C	#4 ACSR	7.27Y	121.2	0.00	3.85	0.36	0	3	1	95	0.00	0.0	11.054	0.041	3	1	1	1
PL.2751	PL.2848	C	#1/0 ACSR	7.27Y	121.1	0.02	3.86	7.31	3	51	14	96	0.01	0.0	10.976	0.089	0	0	0	12
PL.3020	PL.2751	C	#1/0 ACSR	7.27Y	121.1	0.02	3.88	7.31	3	51	14	96	0.01	0.0	11.098	0.122	0	0	0	12
PL.3021	PL.3020	C	#1/0 ACSR	7.27Y	121.1	0.02	3.90	7.31	3	51	14	96	0.01	0.0	11.229	0.131	0	0	0	12
PL.3022	PL.3021	C	#1/0 ACSR	7.26Y	121.1	0.03	3.93	7.31	3	51	14	96	0.01	0.0	11.378	0.149	0	0	0	12
PL.3023	PL.3022	C	#1/0 ACSR	7.26Y	121.1	0.02	3.95	7.31	3	51	14	96	0.01	0.0	11.491	0.113	0	0	0	12
PL.3024	PL.3023	C	#1/0 ACSR	7.26Y	121.0	0.03	3.97	7.31	3	51	14	96	0.01	0.0	11.643	0.152	0	0	0	12
PL.3025	PL.3024	C	#1/0 ACSR	7.26Y	121.0	0.02	3.99	7.31	3	51	14	96	0.01	0.0	11.775	0.133	0	0	0	12
PL.3026	PL.3025	C	#1/0 ACSR	7.26Y	121.0	0.02	4.02	7.31	3	51	14	96	0.01	0.0	11.918	0.143	0	0	0	12
PL.3027	PL.3026	C	#1/0 ACSR	7.26Y	121.0	0.01	4.03	7.31	3	51	14	96	0.00	0.0	12.004	0.086	8	2	2	12
PL.2753	PL.3027	C	#4 ACSR	7.26Y	121.0	0.02	4.05	6.22	5	43	12	96	0.01	0.0	12.065	0.061	0	0	0	10
PL.2849	PL.2753	C	#4 ACSR	7.26Y	120.9	0.02	4.07	4.07	3	28	8	96	0.00	0.0	12.158	0.093	0	0	0	7
PL.3338	PL.2849	C	#4 ACSR	7.26Y	120.9	0.01	4.08	4.07	3	28	8	96	0.00	0.0	12.239	0.080	4	1	1	7
PL.3339	PL.3338	C	#4 ACSR	7.25Y	120.9	0.01	4.09	3.45	3	24	7	96	0.00	0.0	12.373	0.134	22	6	3	6
PL.3340	PL.3339	C	#4 ACSR	7.25Y	120.9	0.00	4.09	0.34	0	2	1	89	0.00	0.0	12.480	0.107	0	0	0	3
PL.2755	PL.3340	C	#4 ACSR	7.25Y	120.9	0.00	4.09	0.34	0	2	1	89	0.00	0.0	12.637	0.157	0	0	0	3
PL.3028	PL.2755	C	#4 ACSR	7.25Y	120.9	0.00	4.10	0.34	0	2	1	89	0.00	0.0	12.693	0.057	0	0	0	3
PL.2756	PL.3028	C	#4 ACSR	7.25Y	120.9	0.00	4.10	0.34	0	2	1	89	0.00	0.0	12.732	0.039	0	0	0	3
PL.2757	PL.2756	C	#2 ACSR	7.25Y	120.9	0.00	4.10	0.34	0	2	1	89	0.00	0.0	12.817	0.084	0	0	0	3
PL.3029	PL.2757	C	#2 ACSR	7.25Y	120.9	0.00	4.10	0.34	0	2	1	89	0.00	0.0	12.900	0.084	0	0	0	3
PL.3341	PL.3029	C	#2 ACSR	7.25Y	120.9	0.00	4.10	0.34	0	2	1	89	0.00	0.0	12.942	0.042	0	0	1	3
PL.3342	PL.3341	C	#2 ACSR	7.25Y	120.9	0.00	4.10	0.34	0	2	1	89	0.00	0.0	12.992	0.050	0	0	1	2
PL.2758	PL.3342	C	#2 ACSR	7.25Y	120.9	0.00	4.10	0.34	0	2	1	89	0.00	0.0	13.033	0.041	2	1	1	1
PL.2754	PL.2753	C	#2 ACSR	7.26Y	120.9	0.00	4.05	2.15	1	15	4	97	0.00	0.0	12.099	0.034	15	4	3	3
PL.2746	PL.3132	C	6 A (CWC)	7.35Y	122.5	0.00	2.48	1.34	1	9	3	95	0.00	0.0	9.168	0.080	9	3	2	2

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2745	PL.3013	C	#2 ACSR	7.36Y	122.7	0.00	2.29	0.46	0	3	1	95	0.00	0.0	8.975	0.044	3	1	2	2
PL.2744	PL.3138	C	#2 ACSR	7.41Y	123.5	0.00	1.48	0.37	0	3	1	95	0.00	0.0	8.352	0.030	3	1	1	1
PL.3609	PL.2726	ABC	#1/0 ACSR	7.18Y	119.6	0.03	5.41	18.40	8	382	107	96	0.07	0.0	7.881	0.077	0	0	0	107
PD.439	PL.3609	ABC	35L	7.18Y	119.6	0.00	5.41	18.40	53	381	107	96	0.00	0.0	7.881	0.077	0	0	0	107
PL.3610	PD.439	ABC	#1/0 ACSR	7.17Y	119.5	0.05	5.46	18.40	8	381	107	96	0.14	0.0	8.035	0.155	0	0	1	107
PL.2933	PL.3610	ABC	#1/0 ACSR	7.17Y	119.5	0.02	5.48	18.40	8	381	106	96	0.05	0.0	8.089	0.053	0	0	0	106
PL.2850	PL.2933	ABC	#1/0 ACSR	7.17Y	119.5	0.03	5.51	18.40	8	381	106	96	0.09	0.0	8.189	0.100	0	0	0	104
PL.3452	PL.2850	C	#4 ACSR	7.17Y	119.5	0.00	5.51	0.00	0	0	0	100	0.00	0.0	8.194	0.005	0	0	0	0
PD.388	PL.3452	C	40QA	7.17Y	119.5	0.00	5.51	0.00	0	0	0	100	0.00	0.0	8.194	0.005	0	0	0	0
PL.3453	PD.388	C	#4 ACSR	7.17Y	119.5	0.00	5.51	0.00	0	0	0	100	0.00	0.0	8.236	0.042	0	0	0	0
PL.3180	PL.2850	ABC	#1/0 ACSR	7.17Y	119.5	0.03	5.55	18.40	8	381	106	96	0.09	0.0	8.293	0.104	17	5	2	104
PL.3181	PL.3180	ABC	#1/0 ACSR	7.17Y	119.4	0.02	5.56	17.57	8	364	101	96	0.05	0.0	8.349	0.056	0	0	0	102
PL.3454	PL.3181	C	#4 ACSR	7.17Y	119.4	0.00	5.56	0.89	1	6	2	95	0.00	0.0	8.354	0.005	0	0	0	1
PD.389	PL.3454	C	40QA	7.17Y	119.4	0.00	5.56	0.89	2	6	2	95	0.00	0.0	8.354	0.005	0	0	0	1
PL.3455	PD.389	C	#4 ACSR	7.17Y	119.4	0.00	5.56	0.89	1	6	2	95	0.00	0.0	8.372	0.018	6	2	1	1
PL.2851	PL.3181	ABC	#1/0 ACSR	7.16Y	119.4	0.03	5.59	17.27	8	358	100	96	0.07	0.0	8.436	0.087	0	0	0	101
PL.3030	PL.2851	ABC	#1/0 ACSR	7.16Y	119.4	0.03	5.63	17.27	8	358	100	96	0.09	0.0	8.547	0.111	0	0	0	101
PL.3031	PL.3030	ABC	#1/0 ACSR	7.16Y	119.3	0.03	5.66	17.27	8	357	100	96	0.09	0.0	8.658	0.111	0	0	0	101
PL.3032	PL.3031	ABC	#1/0 ACSR	7.16Y	119.3	0.03	5.69	17.27	8	357	99	96	0.08	0.0	8.763	0.105	0	0	0	101
PL.3574	PL.3032	C	#4 ACSR	7.16Y	119.3	0.00	5.69	6.93	5	48	13	97	0.00	0.0	8.767	0.004	0	0	0	22
PD.422	PL.3574	C	40QA	7.16Y	119.3	0.00	5.69	6.93	17	48	13	97	0.00	0.0	8.767	0.004	0	0	0	22
PL.3575	PD.422	C	#4 ACSR	7.16Y	119.3	0.00	5.70	6.93	5	48	13	97	0.00	0.0	8.780	0.013	1	0	1	22
PL.2728	PL.3575	C	#4 ACSR	7.16Y	119.3	0.01	5.71	6.83	5	47	13	96	0.00	0.0	8.809	0.029	6	2	1	21
PL.2730	PL.2728	C	#4 ACSR	7.16Y	119.3	0.01	5.71	5.90	5	41	11	97	0.00	0.0	8.830	0.021	0	0	0	20
PL.3184	PL.2730	C	#4 ACSR	7.16Y	119.3	0.00	5.72	5.90	5	41	11	97	0.00	0.0	8.845	0.015	0	0	1	20
PL.3185	PL.3184	C	#4 ACSR	7.16Y	119.3	0.01	5.73	5.90	5	41	11	97	0.00	0.0	8.894	0.050	1	0	2	19
PL.3186	PL.3185	C	#4 ACSR	7.15Y	119.2	0.03	5.76	5.69	4	39	11	96	0.01	0.0	9.023	0.129	0	0	0	17
PL.3078	PL.3186	C	#4 ACSR	7.15Y	119.2	0.02	5.78	5.69	4	39	11	96	0.01	0.0	9.096	0.073	0	0	0	17
PL.3033	PL.3078	C	#4 ACSR	7.15Y	119.2	0.02	5.80	5.69	4	39	11	96	0.01	0.0	9.190	0.094	0	0	0	17
PL.3314	PL.3033	C	#4 ACSR	7.15Y	119.2	0.02	5.83	5.69	4	39	11	96	0.01	0.0	9.293	0.103	3	1	1	17
PL.3315	PL.3314	C	#4 ACSR	7.15Y	119.2	0.01	5.84	5.19	4	36	10	96	0.00	0.0	9.351	0.058	3	1	1	16

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3313	PL.3315	C	#4 ACSR	7.15Y	119.1	0.03	5.88	4.82	4	33	9	96	0.01	0.0	9.521	0.170	5	1	1	15
PL.3311	PL.3313	C	#4 ACSR	7.15Y	119.1	0.01	5.88	3.59	3	25	7	96	0.00	0.0	9.577	0.056	0	0	1	10
PL.3312	PL.3311	C	#4 ACSR	7.15Y	119.1	0.01	5.90	3.59	3	25	7	96	0.00	0.0	9.653	0.076	3	1	1	9
PL.3308	PL.3312	C	#4 ACSR	7.15Y	119.1	0.00	5.90	3.21	2	22	6	96	0.00	0.0	9.668	0.015	2	1	2	8
PL.3309	PL.3308	C	#4 ACSR	7.15Y	119.1	0.00	5.90	2.92	2	20	6	96	0.00	0.0	9.717	0.049	13	4	5	6
PL.3310	PL.3309	C	#4 ACSR	7.15Y	119.1	0.00	5.90	1.00	1	7	2	96	0.00	0.0	9.758	0.041	7	2	1	1
PL.2731	PL.3313	C	#4 ACSR	7.15Y	119.1	0.00	5.88	0.27	0	2	1	89	0.00	0.0	9.593	0.072	2	1	2	2
PL.3316	PL.3313	C	#4 ACSR	7.15Y	119.1	0.00	5.88	0.29	0	2	1	89	0.00	0.0	9.563	0.042	2	1	1	2
PL.3317	PL.3316	C	#4 ACSR	7.15Y	119.1	0.00	5.88	0.03	0	0	0	100	0.00	0.0	9.596	0.033	0	0	1	1
PL.2852	PL.3032	ABC	#1/0 ACSR	7.16Y	119.3	0.02	5.72	14.96	7	309	86	96	0.05	0.0	8.851	0.088	0	0	0	79
PL.3034	PL.2852	ABC	#1/0 ACSR	7.15Y	119.2	0.04	5.75	14.96	7	309	86	96	0.08	0.0	8.990	0.139	0	0	0	79
PL.2853	PL.3034	ABC	#1/0 ACSR	7.15Y	119.2	0.02	5.78	14.80	6	306	85	96	0.05	0.0	9.069	0.079	0	0	0	78
PL.2900	PL.2853	C	#2 ACSR 6/	7.15Y	119.2	0.00	5.78	2.07	1	14	4	96	0.00	0.0	9.079	0.010	8	2	1	2
PL.2901	PL.2900	C	#2 ACSR 6/	7.15Y	119.2	0.00	5.78	0.95	1	7	2	96	0.00	0.0	9.114	0.035	7	2	1	1
PL.3434	PL.2853	A	#4 ACSR	7.15Y	119.2	0.00	5.78	6.15	5	42	12	96	0.00	0.0	9.074	0.005	0	0	0	8
PD.379	PL.3434	A	40QA	7.15Y	119.2	0.00	5.78	6.15	15	42	12	96	0.00	0.0	9.074	0.005	0	0	0	8
PL.3435	PD.379	A	#4 ACSR	7.15Y	119.2	0.01	5.79	6.15	5	42	12	96	0.00	0.0	9.112	0.038	0	0	0	8
PL.2904	PL.3435	A	#4 ACSR	7.15Y	119.2	0.01	5.79	3.08	2	21	6	96	0.00	0.0	9.172	0.061	1	0	1	4
PL.2909	PL.2904	A	#4 ACSR	7.15Y	119.2	0.00	5.80	2.93	2	20	6	96	0.00	0.0	9.246	0.073	20	6	3	3
PL.2910	PL.2909	A	#4 ACSR	7.15Y	119.2	0.00	5.80	0.00	0	0	0	100	0.00	0.0	9.291	0.045	0	0	0	0
PL.2734	PL.3435	A	#4 ACSR	7.15Y	119.2	0.01	5.79	3.06	2	21	6	96	0.00	0.0	9.160	0.048	2	0	1	4
PL.2733	PL.2734	A	#4 ACSR	7.15Y	119.2	0.00	5.79	1.09	1	8	2	97	0.00	0.0	9.174	0.014	8	2	1	1
PL.2732	PL.2734	A	#4 ACSR	7.15Y	119.2	0.00	5.80	1.74	1	12	3	97	0.00	0.0	9.209	0.049	12	3	2	2
PL.2902	PL.2853	ABC	#1/0 ACSR	7.15Y	119.2	0.02	5.79	12.06	5	249	69	96	0.03	0.0	9.139	0.070	2	1	1	68
PL.2903	PL.2902	ABC	#1/0 ACSR	7.15Y	119.2	0.01	5.80	11.94	5	247	69	96	0.03	0.0	9.206	0.067	0	0	0	67
PL.3035	PL.2903	ABC	#1/0 ACSR	7.15Y	119.2	0.01	5.82	11.94	5	247	69	96	0.02	0.0	9.272	0.066	0	0	0	67
PL.2907	PL.3035	ABC	#1/0 ACSR	7.15Y	119.2	0.03	5.85	11.94	5	247	69	96	0.05	0.0	9.412	0.140	0	0	0	67
PL.2908	PL.2907	ABC	#1/0 ACSR	7.15Y	119.1	0.01	5.86	11.94	5	247	69	96	0.02	0.0	9.469	0.057	5	1	3	67
PL.2906	PL.2908	ABC	#1/0 ACSR	7.15Y	119.1	0.02	5.88	11.73	5	242	67	96	0.03	0.0	9.546	0.077	6	2	1	64
PL.2905	PL.2906	ABC	#1/0 ACSR	7.15Y	119.1	0.02	5.90	11.46	5	237	66	96	0.03	0.0	9.645	0.099	0	0	0	63
PL.3036	PL.2905	ABC	#1/0 ACSR	7.15Y	119.1	0.02	5.92	11.46	5	237	66	96	0.03	0.0	9.729	0.084	0	0	0	63

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3037	PL.3036	ABC	#1/0 ACSR	7.14Y	119.1	0.02	5.94	11.46	5	237	66	96	0.04	0.0	9.833	0.104	0	0	0	63
PL.3038	PL.3037	ABC	#1/0 ACSR	7.14Y	119.1	0.01	5.94	11.46	5	237	66	96	0.01	0.0	9.859	0.026	0	0	0	63
PL.2854	PL.3038	ABC	#1/0 ACSR	7.14Y	119.0	0.02	5.96	11.12	5	230	64	96	0.03	0.0	9.960	0.101	0	0	0	59
PL.2735	PL.2854	A	#1/0 ACSR	7.14Y	119.0	0.00	5.96	1.23	1	8	2	97	0.00	0.0	9.997	0.037	8	2	1	1
PL.2855	PL.2854	ABC	#1/0 ACSR	7.14Y	119.0	0.02	5.98	10.71	5	221	61	96	0.03	0.0	10.058	0.098	0	0	0	58
PL.3039	PL.2855	ABC	#1/0 ACSR	7.14Y	119.0	0.02	6.00	10.71	5	221	61	96	0.03	0.0	10.142	0.084	0	0	0	58
PL.3040	PL.3039	ABC	#1/0 ACSR	7.14Y	119.0	0.02	6.02	10.71	5	221	61	96	0.03	0.0	10.233	0.090	0	0	0	58
PL.3142	PL.3040	ABC	#1/0 ACSR	7.14Y	119.0	0.02	6.03	10.71	5	221	61	96	0.03	0.0	10.326	0.093	4	1	1	58
PL.3295	PL.3142	ABC	#1/0 ACSR	7.14Y	118.9	0.02	6.05	10.00	4	206	57	96	0.03	0.0	10.439	0.113	2	1	1	52
PL.3296	PL.3295	ABC	#1/0 ACSR	7.14Y	118.9	0.01	6.06	9.89	4	204	57	96	0.01	0.0	10.489	0.049	0	0	0	51
PL.2936	PL.3296	C	#2 ACSR	7.14Y	118.9	0.00	6.06	1.18	1	8	2	97	0.00	0.0	10.493	0.005	0	0	0	1
PD.407	PL.2936	C	40QA	7.14Y	118.9	0.00	6.06	1.18	3	8	2	97	0.00	0.0	10.493	0.005	0	0	0	1
PL.2937	PD.407	C	#2 ACSR	7.14Y	118.9	0.00	6.06	1.18	1	8	2	97	0.00	0.0	10.534	0.041	8	2	1	1
PL.2856	PL.3296	ABC	#1/0 ACSR	7.14Y	118.9	0.01	6.07	9.50	4	196	54	96	0.02	0.0	10.552	0.063	0	0	0	50
PL.3486	PL.2856	A	#1/0 ACSR	7.14Y	118.9	0.00	6.07	8.10	4	56	15	97	0.00	0.0	10.556	0.005	0	0	0	16
PD.405	PL.3486	A	40QA	7.14Y	118.9	0.00	6.07	8.10	20	56	15	97	0.00	0.0	10.556	0.005	0	0	0	16
PL.3487	PD.405	A	#1/0 ACSR	7.14Y	118.9	0.00	6.08	8.10	4	56	15	97	0.00	0.0	10.575	0.019	0	0	0	16
PL.3297	PL.3487	A	#1/0 ACSR	7.13Y	118.9	0.01	6.09	8.10	4	56	15	97	0.00	0.0	10.633	0.057	0	0	0	16
PL.3280	PL.3297	A	#1/0 ACSR	7.13Y	118.9	0.02	6.11	8.10	4	56	15	97	0.01	0.0	10.747	0.115	0	0	0	16
PL.3281	PL.3280	A	#1/0 ACSR	7.13Y	118.9	0.01	6.12	8.10	4	56	15	97	0.00	0.0	10.833	0.086	16	4	3	16
PL.3282	PL.3281	A	#1/0 ACSR	7.13Y	118.9	0.02	6.14	5.82	3	40	11	96	0.00	0.0	10.946	0.113	0	0	2	13
PL.2896	PL.3282	A	#1/0 ACSR	7.13Y	118.9	0.01	6.15	5.75	2	40	11	96	0.00	0.0	11.025	0.078	18	5	6	11
PL.2897	PL.2896	A	#1/0 ACSR	7.13Y	118.8	0.00	6.15	3.20	1	22	6	96	0.00	0.0	11.083	0.058	0	0	1	5
PL.2898	PL.2897	A	#1/0 ACSR	7.13Y	118.8	0.01	6.16	2.02	1	14	4	96	0.00	0.0	11.233	0.151	2	1	1	3
PL.2899	PL.2898	A	#1/0 ACSR	7.13Y	118.8	0.00	6.16	1.75	1	12	3	97	0.00	0.0	11.257	0.024	0	0	0	2
PL.2858	PL.2899	A	#1/0 ACSR	7.13Y	118.8	0.00	6.16	0.88	0	6	2	95	0.00	0.0	11.290	0.033	6	2	1	1
PL.2736	PL.2899	A	#4 ACSR	7.13Y	118.8	0.00	6.16	0.87	1	6	2	95	0.00	0.0	11.285	0.028	6	2	1	1
PL.2737	PL.2897	A	#2 ACSR	7.13Y	118.8	0.00	6.15	1.12	1	8	2	97	0.00	0.0	11.114	0.032	8	2	1	1
PL.2857	PL.2856	ABC	#1/0 ACSR	7.14Y	118.9	0.01	6.08	6.80	3	140	39	96	0.01	0.0	10.595	0.043	0	0	0	34
PL.2934	PL.2857	A	#2 ACSR	7.14Y	118.9	0.00	6.08	1.51	1	10	3	96	0.00	0.0	10.599	0.005	0	0	0	2
PD.406	PL.2934	A	40QA	7.14Y	118.9	0.00	6.08	1.51	4	10	3	96	0.00	0.0	10.599	0.005	0	0	0	2

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2935	PD.406	A	#2 ACSR	7.14Y	118.9	0.00	6.08	1.51	1	10	3	96	0.00	0.0	10.621	0.022	10	3	2	2
PL.2859	PL.2857	ABC	#1/0 ACSR	7.14Y	118.9	0.00	6.08	6.29	3	130	36	96	0.00	0.0	10.638	0.044	0	0	0	32
PL.3484	PL.2859	A	#4 ACSR	7.13Y	118.9	0.00	6.09	18.88	15	130	36	96	0.00	0.0	10.643	0.005	0	0	0	32
PD.404	PL.3484	A	25T	7.13Y	118.9	0.00	6.09	18.88	0	130	36	96	0.00	0.0	10.643	0.005	0	0	0	32
PL.3485	PD.404	A	#4 ACSR	7.13Y	118.9	0.04	6.13	18.88	15	130	36	96	0.04	0.0	10.691	0.048	11	3	3	32
PL.3279	PL.3485	A	#4 ACSR	7.13Y	118.8	0.12	6.25	17.30	13	119	33	96	0.11	0.1	10.853	0.162	7	2	2	29
PL.3278	PL.3279	A	#4 ACSR	7.12Y	118.7	0.04	6.28	16.31	13	112	31	96	0.03	0.0	10.904	0.052	4	1	2	27
PL.3277	PL.3278	A	#4 ACSR	7.12Y	118.6	0.11	6.39	15.71	12	108	30	96	0.09	0.1	11.059	0.155	0	0	0	25
PL.3293	PL.3277	A	#4 ACSR	7.11Y	118.5	0.06	6.45	15.71	12	108	30	96	0.05	0.0	11.144	0.084	5	1	1	25
PL.3294	PL.3293	A	#4 ACSR	7.11Y	118.5	0.07	6.52	15.00	12	103	28	96	0.06	0.1	11.254	0.110	0	0	0	24
PL.2738	PL.3294	A	#4 ACSR	7.10Y	118.4	0.06	6.58	15.00	12	103	28	96	0.05	0.0	11.345	0.091	0	0	0	24
PL.3290	PL.2738	A	#4 ACSR	7.10Y	118.4	0.06	6.65	15.00	12	103	28	96	0.05	0.0	11.446	0.102	11	3	1	24
PL.3291	PL.3290	A	#4 ACSR	7.10Y	118.3	0.03	6.68	13.38	10	92	25	97	0.02	0.0	11.492	0.046	4	1	2	23
PL.3292	PL.3291	A	#4 ACSR	7.10Y	118.3	0.06	6.74	12.77	10	87	24	96	0.04	0.0	11.597	0.104	0	0	0	21
PL.3041	PL.3292	A	#4 ACSR	7.09Y	118.2	0.06	6.79	12.77	10	87	24	96	0.04	0.0	11.699	0.102	0	0	0	21
PL.2740	PL.3041	A	#2 ACSR	7.09Y	118.2	0.00	6.80	2.12	1	14	4	96	0.00	0.0	11.765	0.066	14	4	2	2
PL.2739	PL.3041	A	#4 ACSR	7.09Y	118.2	0.05	6.84	10.65	8	73	20	96	0.03	0.0	11.804	0.105	11	3	2	19
PL.3288	PL.2739	A	#4 ACSR	7.09Y	118.2	0.00	6.84	1.80	1	12	3	97	0.00	0.0	11.879	0.075	11	3	2	3
PL.3289	PL.3288	A	#4 ACSR	7.09Y	118.2	0.00	6.84	0.26	0	2	0	100	0.00	0.0	11.949	0.071	2	0	1	1
PL.3285	PL.3289	A	#4 ACSR	7.09Y	118.2	0.00	6.84	0.00	0	0	0	100	0.00	0.0	12.100	0.150	0	0	0	0
PL.3042	PL.3285	A	#4 ACSR	7.09Y	118.2	0.00	6.84	0.00	0	0	0	100	0.00	0.0	12.206	0.106	0	0	0	0
PL.3079	PL.3042	A	#4 ACSR	7.09Y	118.2	0.00	6.84	0.00	0	0	0	100	0.00	0.0	12.286	0.080	0	0	0	0
PL.3043	PL.3079	A	#4 ACSR	7.09Y	118.2	0.00	6.84	0.00	0	0	0	100	0.00	0.0	12.345	0.059	0	0	0	0
PL.3286	PL.2739	A	#4 ACSR	7.09Y	118.1	0.02	6.86	7.31	6	50	14	96	0.01	0.0	11.862	0.058	1	0	2	14
PL.3287	PL.3286	A	#4 ACSR	7.09Y	118.1	0.01	6.87	7.12	5	49	13	97	0.01	0.0	11.917	0.055	14	4	1	12
PL.3283	PL.3287	A	#4 ACSR	7.09Y	118.1	0.01	6.88	5.03	4	34	9	97	0.00	0.0	11.967	0.050	9	3	3	11
PL.3284	PL.3283	A	#4 ACSR	7.09Y	118.1	0.01	6.89	3.70	3	25	7	96	0.00	0.0	12.006	0.039	6	2	1	8
PL.3301	PL.3284	A	#4 ACSR	7.09Y	118.1	0.02	6.91	2.83	2	19	5	97	0.00	0.0	12.147	0.141	0	0	0	7
PL.3302	PL.3301	A	#4 ACSR	7.08Y	118.1	0.02	6.92	2.83	2	19	5	97	0.00	0.0	12.281	0.134	0	0	0	7
PL.3044	PL.3302	A	#4 ACSR	7.08Y	118.1	0.01	6.93	2.83	2	19	5	97	0.00	0.0	12.355	0.074	0	0	0	7
PL.2741	PL.3044	A	#4 ACSR	7.08Y	118.1	0.00	6.94	1.40	1	10	3	96	0.00	0.0	12.422	0.067	0	0	0	5

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3298	PL.2741	A	#4 ACSR	7.08Y	118.1	0.01	6.94	1.40	1	10	3	96	0.00	0.0	12.537	0.115	1	0	2	5
PL.3299	PL.3298	A	#4 ACSR	7.08Y	118.1	0.00	6.95	1.30	1	9	2	98	0.00	0.0	12.613	0.076	0	0	0	3
PL.3300	PL.3299	A	#4 ACSR	7.08Y	118.0	0.01	6.96	1.30	1	9	2	98	0.00	0.0	12.744	0.130	0	0	0	3
PL.3303	PL.3300	A	#4 ACSR	7.08Y	118.0	0.00	6.96	1.30	1	9	2	98	0.00	0.0	12.891	0.147	9	2	3	3
PL.3304	PL.3303	A	#4 ACSR	7.08Y	118.0	0.00	6.96	0.00	0	0	0	100	0.00	0.0	13.019	0.128	0	0	0	0
PL.2743	PL.3304	A	#4 ACSR	7.08Y	118.0	0.00	6.96	0.00	0	0	0	100	0.00	0.0	13.077	0.058	0	0	0	0
PL.2742	PL.3044	A	#4 ACSR	7.08Y	118.1	0.00	6.93	1.43	1	10	3	96	0.00	0.0	12.405	0.050	10	3	2	2
PL.3482	PL.3142	A	#2 ACSR	7.14Y	119.0	0.00	6.03	1.56	1	11	3	96	0.00	0.0	10.330	0.005	0	0	0	5
PD.403	PL.3482	A	40QA	7.14Y	119.0	0.00	6.03	1.56	4	11	3	96	0.00	0.0	10.330	0.005	0	0	0	5
PL.3483	PD.403	A	#2 ACSR	7.14Y	119.0	0.00	6.03	1.56	1	11	3	96	0.00	0.0	10.358	0.028	11	3	5	5
PL.3438	PL.3038	A	#4 ACSR	7.14Y	119.1	0.00	5.94	1.01	1	7	2	96	0.00	0.0	9.864	0.005	0	0	0	4
PD.381	PL.3438	A	40QA	7.14Y	119.1	0.00	5.94	1.01	3	7	2	96	0.00	0.0	9.864	0.005	0	0	0	4
PL.3439	PD.381	A	#4 ACSR	7.14Y	119.1	0.00	5.94	1.01	1	7	2	96	0.00	0.0	9.918	0.054	7	2	4	4
PL.3436	PL.3034	C	#2 ACSR	7.15Y	119.2	0.00	5.75	0.47	0	3	1	95	0.00	0.0	8.994	0.005	0	0	0	1
PD.380	PL.3436	C	40QA	7.15Y	119.2	0.00	5.75	0.47	1	3	1	95	0.00	0.0	8.994	0.005	0	0	0	1
PL.3437	PD.380	C	#2 ACSR	7.15Y	119.2	0.00	5.75	0.47	0	3	1	95	0.00	0.0	9.011	0.016	3	1	1	1
PL.3450	PL.2933	C	#4 ACSR	7.17Y	119.5	0.00	5.48	0.00	0	0	0	100	0.00	0.0	8.094	0.005	0	0	0	2
PD.387	PL.3450	C	40QA	7.17Y	119.5	0.00	5.48	0.00	0	0	0	100	0.00	0.0	8.094	0.005	0	0	0	2
PL.3451	PD.387	C	#4 ACSR	7.17Y	119.5	0.00	5.48	0.00	0	0	0	100	0.00	0.0	8.105	0.012	0	0	1	2
PL.3179	PL.3451	C	#4 ACSR	7.17Y	119.5	0.00	5.48	0.00	0	0	0	100	0.00	0.0	8.177	0.072	0	0	1	1
PL.2722	PL.2847	A	#1/0 ACSR	7.24Y	120.7	0.00	4.34	0.34	0	2	1	89	0.00	0.0	6.430	0.035	2	1	1	1
PL.3446	PL.3612	A	6 A (CWC)	7.25Y	120.9	0.00	4.09	0.50	0	3	1	95	0.00	0.0	6.118	0.005	0	0	0	3
PD.385	PL.3446	A	15T	7.25Y	120.9	0.00	4.09	0.50	0	3	1	95	0.00	0.0	6.118	0.005	0	0	0	3
PL.3447	PD.385	A	6 A (CWC)	7.25Y	120.9	0.00	4.09	0.50	0	3	1	95	0.00	0.0	6.210	0.092	1	0	1	3
PL.2709	PL.3447	A	#4 ACSR	7.25Y	120.9	0.00	4.09	0.36	0	3	1	95	0.00	0.0	6.250	0.040	3	1	2	2
PL.2710	PL.3447	A	6 A (CWC)	7.25Y	120.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	6.247	0.037	0	0	0	0
CP.6	PL.3611	ABC	Cap (300)	7.26Y	121.0	0.00	3.99	0.00	0	0	0	100	0.00	0.0	6.010	0.037	0	0	0	0
PL.3456	PL.3190	A	#4 ACSR	7.34Y	122.4	0.00	2.62	1.88	1	13	4	96	0.00	0.0	4.688	0.005	0	0	0	4
PD.390	PL.3456	A	10T	7.34Y	122.4	0.00	2.62	1.88	0	13	4	96	0.00	0.0	4.688	0.005	0	0	0	4
PL.3457	PD.390	A	#4 ACSR	7.34Y	122.4	0.00	2.62	1.88	1	13	4	96	0.00	0.0	4.738	0.050	13	4	4	4
PL.3468	PL.2686	A	6 A (CWC)	7.38Y	123.0	0.00	1.95	0.84	1	6	2	95	0.00	0.0	4.117	0.005	0	0	0	1

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.397	PL.3468	A	40QA	7.38Y	123.0	0.00	1.95	0.84	2	6	2	95	0.00	0.0	4.117	0.005	0	0	0	1
PL.3469	PD.397	A	6 A (CWC)	7.38Y	123.0	0.00	1.96	0.84	1	6	2	95	0.00	0.0	4.175	0.058	6	2	1	1
PL.2684	PL.2683	ABC	#1/0 ACSR	7.39Y	123.2	0.03	1.79	18.86	8	403	113	96	0.08	0.0	4.037	0.089	1	0	3	127
PL.3218	PL.2684	ABC	#1/0 ACSR	7.39Y	123.2	0.03	1.81	18.81	8	402	112	96	0.07	0.0	4.112	0.075	0	0	1	124
PL.3601	PL.3218	ABC	#1/0 ACSR	7.39Y	123.2	0.00	1.82	18.79	8	401	112	96	0.00	0.0	4.117	0.005	0	0	0	123
PD.435	PL.3601	ABC	70L	7.39Y	123.2	0.00	1.82	18.79	27	401	112	96	0.00	0.0	4.117	0.005	0	0	0	123
PL.3602	PD.435	ABC	#1/0 ACSR	7.39Y	123.2	0.03	1.84	18.79	8	401	112	96	0.08	0.0	4.201	0.084	3	1	1	123
PL.3219	PL.3602	ABC	#1/0 ACSR	7.39Y	123.1	0.03	1.87	18.64	8	398	111	96	0.08	0.0	4.290	0.088	2	0	1	122
PL.3220	PL.3219	ABC	#1/0 ACSR	7.39Y	123.1	0.03	1.90	18.56	8	396	111	96	0.07	0.0	4.371	0.082	18	5	4	121
PL.3221	PL.3220	ABC	#1/0 ACSR	7.38Y	123.1	0.02	1.92	17.71	8	378	106	96	0.05	0.0	4.435	0.064	8	2	4	117
PL.3225	PL.3221	ABC	#1/0 ACSR	7.38Y	123.1	0.01	1.93	17.32	8	370	103	96	0.03	0.0	4.468	0.032	6	2	1	113
PL.3226	PL.3225	ABC	#1/0 ACSR	7.38Y	123.1	0.02	1.95	17.06	7	364	102	96	0.04	0.0	4.517	0.049	0	0	1	112
PL.3227	PL.3226	ABC	#1/0 ACSR	7.38Y	123.0	0.03	1.97	17.06	7	364	102	96	0.07	0.0	4.603	0.086	0	0	0	111
PL.3223	PL.3227	ABC	#1/0 ACSR	7.38Y	123.0	0.03	2.00	17.06	7	364	102	96	0.07	0.0	4.690	0.088	6	2	1	111
PL.3224	PL.3223	ABC	#1/0 ACSR	7.38Y	123.0	0.03	2.03	16.79	7	358	100	96	0.07	0.0	4.779	0.089	3	1	1	110
PL.3222	PL.3224	ABC	#1/0 ACSR	7.38Y	122.9	0.02	2.05	16.63	7	355	99	96	0.06	0.0	4.861	0.082	4	1	2	109
PL.3474	PL.3222	ABC	#1/0 ACSR	7.38Y	122.9	0.00	2.05	16.30	7	347	97	96	0.00	0.0	4.865	0.005	0	0	0	105
PL.3475	PL.3474	ABC	#1/0 ACSR	7.38Y	122.9	0.03	2.08	16.30	7	347	97	96	0.06	0.0	4.955	0.090	2	0	1	105
PL.3237	PL.3475	ABC	#1/0 ACSR	7.37Y	122.9	0.03	2.11	16.22	7	346	96	96	0.08	0.0	5.065	0.110	2	1	1	104
PL.3238	PL.3237	ABC	#1/0 ACSR	7.37Y	122.9	0.03	2.14	16.12	7	343	96	96	0.08	0.0	5.176	0.111	8	2	2	103
PL.3236	PL.3238	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.16	15.75	7	336	93	96	0.04	0.0	5.236	0.060	11	3	2	101
PL.3234	PL.3236	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.18	15.25	7	325	90	96	0.05	0.0	5.317	0.081	2	1	1	99
PL.3235	PL.3234	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.20	15.14	7	322	90	96	0.05	0.0	5.397	0.080	5	1	1	98
PL.3233	PL.3235	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.22	14.90	6	317	88	96	0.04	0.0	5.471	0.074	2	1	1	97
PL.3480	PL.3233	A	#2 ACSR	7.37Y	122.8	0.00	2.22	0.55	0	4	1	97	0.00	0.0	5.476	0.005	0	0	0	1
PD.402	PL.3480	A	40QA	7.37Y	122.8	0.00	2.22	0.55	1	4	1	97	0.00	0.0	5.476	0.005	0	0	0	1
PL.3481	PD.402	A	#2 ACSR	7.37Y	122.8	0.00	2.22	0.55	0	4	1	97	0.00	0.0	5.492	0.016	4	1	1	1
PL.3117	PL.3233	ABC	#1/0 ACSR	7.36Y	122.7	0.04	2.26	14.62	6	311	87	96	0.08	0.0	5.618	0.147	0	0	0	95
PL.2829	PL.3117	ABC	#1/0 ACSR	7.36Y	122.7	0.03	2.29	14.50	6	309	86	96	0.06	0.0	5.722	0.104	0	0	0	94
PL.3058	PL.2829	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.31	14.50	6	309	86	96	0.04	0.0	5.793	0.071	0	0	0	94
PL.2888	PL.3058	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.33	14.50	6	309	86	96	0.05	0.0	5.881	0.089	0	0	0	94

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3229	PL.2888	ABC	#1/0 ACSR	7.36Y	122.6	0.04	2.37	14.50	6	309	86	96	0.07	0.0	6.016	0.135	6	2	1	94
PL.3230	PL.3229	ABC	#1/0 ACSR	7.36Y	122.6	0.02	2.39	14.24	6	303	84	96	0.05	0.0	6.105	0.089	0	0	0	93
PL.3346	PL.3230	ABC	#1/0 ACSR	7.36Y	122.6	0.02	2.41	14.02	6	298	83	96	0.03	0.0	6.172	0.067	4	1	1	91
PL.3347	PL.3346	ABC	#1/0 ACSR	7.35Y	122.6	0.02	2.43	13.84	6	294	82	96	0.05	0.0	6.269	0.097	4	1	3	90
PL.3597	PL.3347	A	#4 ACSR	7.35Y	122.6	0.00	2.43	6.51	5	46	13	96	0.00	0.0	6.272	0.003	0	0	0	15
PD.433	PL.3597	A	35H	7.35Y	122.6	0.00	2.43	6.51	19	46	13	96	0.00	0.0	6.272	0.003	0	0	0	15
PL.3598	PD.433	A	#4 ACSR	7.35Y	122.6	0.02	2.45	6.51	5	46	13	96	0.01	0.0	6.338	0.066	4	1	1	15
PL.3345	PL.3598	A	#4 ACSR	7.35Y	122.5	0.02	2.47	6.00	5	43	12	96	0.01	0.0	6.416	0.078	0	0	0	14
PL.2764	PL.3345	A	6 A (CWC)	7.35Y	122.5	0.00	2.47	0.00	0	0	0	100	0.00	0.0	6.541	0.125	0	0	0	0
PL.3343	PL.3345	A	#4 ACSR	7.35Y	122.5	0.01	2.48	6.00	5	43	12	96	0.00	0.0	6.471	0.055	0	0	0	14
PL.3344	PL.3343	A	#4 ACSR	7.35Y	122.5	0.04	2.53	6.00	5	43	12	96	0.01	0.0	6.634	0.163	0	0	0	14
PL.2759	PL.3344	A	#4 ACSR	7.35Y	122.4	0.03	2.56	6.00	5	43	12	96	0.01	0.0	6.753	0.120	0	0	0	14
PL.3065	PL.2759	A	#4 ACSR	7.35Y	122.4	0.02	2.58	6.00	5	43	12	96	0.01	0.0	6.824	0.070	0	0	0	14
PL.2889	PL.3065	A	#4 ACSR	7.34Y	122.4	0.04	2.62	6.00	5	43	12	96	0.01	0.0	6.991	0.167	0	0	0	14
PL.2890	PL.2889	A	#4 ACSR	7.34Y	122.3	0.04	2.66	6.00	5	42	12	96	0.01	0.0	7.125	0.135	0	0	0	14
PL.2891	PL.2890	A	#4 ACSR	7.34Y	122.3	0.03	2.69	6.00	5	42	12	96	0.01	0.0	7.225	0.100	0	0	0	14
PL.3348	PL.2891	A	#4 ACSR	7.34Y	122.3	0.01	2.69	6.00	5	42	12	96	0.00	0.0	7.256	0.031	7	2	2	14
PL.3349	PL.3348	A	#4 ACSR	7.34Y	122.3	0.03	2.73	5.06	4	36	10	96	0.01	0.0	7.393	0.137	0	0	0	12
PL.2892	PL.3349	A	#4 ACSR	7.33Y	122.2	0.03	2.76	5.06	4	36	10	96	0.01	0.0	7.535	0.142	0	0	0	12
PL.3123	PL.2892	A	#4 ACSR	7.33Y	122.2	0.03	2.79	5.06	4	36	10	96	0.01	0.0	7.660	0.125	0	0	0	12
PL.3124	PL.3123	A	#4 ACSR	7.33Y	122.2	0.03	2.82	5.06	4	36	10	96	0.01	0.0	7.845	0.185	11	3	3	12
PL.3125	PL.3124	A	#4 ACSR	7.33Y	122.2	0.01	2.83	3.04	2	22	6	96	0.00	0.0	7.952	0.107	4	1	1	8
PL.2767	PL.3125	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.80	1	6	2	95	0.00	0.0	8.079	0.128	0	0	0	4
PL.2830	PL.2767	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.31	0	2	1	89	0.00	0.0	8.139	0.060	0	0	0	3
PL.2831	PL.2830	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.00	0	0	0	100	0.00	0.0	8.174	0.035	0	0	0	0
PL.2769	PL.2830	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.31	0	2	1	89	0.00	0.0	8.226	0.086	0	0	0	3
PL.3350	PL.2769	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.31	0	2	1	89	0.00	0.0	8.320	0.095	1	0	1	3
PL.3351	PL.3350	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.15	0	1	0	100	0.00	0.0	8.481	0.161	0	0	0	2
PL.2893	PL.3351	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.15	0	1	0	100	0.00	0.0	8.586	0.105	0	0	0	2
PL.3066	PL.2893	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.15	0	1	0	100	0.00	0.0	8.656	0.070	0	0	0	2
PL.2894	PL.3066	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.15	0	1	0	100	0.00	0.0	8.729	0.073	1	0	2	2

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2768	PL.2767	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.49	0	3	1	95	0.00	0.0	8.124	0.045	3	1	1	1
PL.3126	PL.3125	A	#4 ACSR	7.33Y	122.2	0.00	2.84	0.98	1	7	2	96	0.00	0.0	8.045	0.093	7	2	2	2
PL.4492	PL.3125	A	#1/0 ACSR	7.33Y	122.2	0.00	2.84	0.69	0	5	1	98	0.00	0.0	8.181	0.229	0	0	0	1
PL.4494	PL.4492	A	#1/0 ACSR	7.33Y	122.2	0.00	2.84	0.69	0	5	1	98	0.00	0.0	8.350	0.169	5	1	1	1
PL.4493	PL.4492	A	#1/0 ACSR	7.33Y	122.2	0.00	2.84	0.00	0	0	0	100	0.00	0.0	8.245	0.063	0	0	0	0
PL.2766	PL.3124	A	#4 ACSR	7.33Y	122.2	0.00	2.82	0.39	0	3	1	95	0.00	0.0	7.949	0.104	3	1	1	1
PL.3118	PL.3347	ABC	#1/0 ACSR	7.35Y	122.6	0.01	2.44	11.31	5	241	67	96	0.01	0.0	6.307	0.038	0	0	0	71
PL.3114	PL.3118	ABC	#1/0 ACSR	7.35Y	122.6	0.00	2.44	2.25	1	48	13	97	0.00	0.0	6.383	0.076	10	3	2	10
PL.3115	PL.3114	ABC	#1/0 ACSR	7.35Y	122.6	0.00	2.44	1.61	1	34	9	97	0.00	0.0	6.425	0.042	0	0	0	7
PL.2834	PL.3115	ABC	#1/0 ACSR	7.35Y	122.6	0.00	2.44	0.89	0	19	5	97	0.00	0.0	6.536	0.111	0	0	0	3
PL.2835	PL.2834	ABC	#1/0 ACSR	7.35Y	122.6	0.00	2.44	0.40	0	9	2	98	0.00	0.0	6.579	0.043	0	0	0	1
PL.3106	PL.2835	ABC	#1/0 ACSR	7.35Y	122.6	0.00	2.44	0.40	0	9	2	98	0.00	0.0	6.594	0.015	0	0	0	1
PL.3107	PL.3106	ABC	#1/0 ACSR	7.35Y	122.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	6.746	0.151	0	0	0	0
PL.2967	PL.3107	ABC	#1/0 ACSR	7.35Y	122.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	6.870	0.125	0	0	0	0
PL.3607	PL.2967	ABC	#1/0 ACSR	7.35Y	122.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	6.952	0.082	0	0	0	0
PD.438-A	PL.3607	ABC	Open	7.35Y	122.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	6.952	0.082	0	0	0	0
PL.3578	PL.3106	C	#2 ACSR	7.35Y	122.6	0.00	2.44	1.21	1	9	2	98	0.00	0.0	6.599	0.005	0	0	0	1
PD.424	PL.3578	C	40QA	7.35Y	122.6	0.00	2.44	1.21	3	9	2	98	0.00	0.0	6.599	0.005	0	0	0	1
PL.3579	PD.424	C	#2 ACSR	7.35Y	122.6	0.00	2.44	1.21	1	9	2	98	0.00	0.0	6.645	0.046	9	2	1	1
PL.2940	PL.2834	A	6 A (CWC)	7.35Y	122.6	0.00	2.44	1.46	1	10	3	96	0.00	0.0	6.541	0.005	0	0	0	2
PD.410	PL.2940	A	15T	7.35Y	122.6	0.00	2.44	1.46	0	10	3	96	0.00	0.0	6.541	0.005	0	0	0	2
PL.2941	PD.410	A	6 A (CWC)	7.35Y	122.6	0.01	2.45	1.46	1	10	3	96	0.00	0.0	6.659	0.118	5	1	1	2
PL.3352	PL.2941	A	6 A (CWC)	7.35Y	122.5	0.00	2.45	0.72	1	5	1	98	0.00	0.0	6.746	0.087	5	1	1	1
PL.2762	PL.3115	C	#4 ACSR	7.35Y	122.6	0.00	2.44	2.16	2	15	4	97	0.00	0.0	6.430	0.005	0	0	0	4
PD.409	PL.2762	C	40QA	7.35Y	122.6	0.00	2.44	2.16	5	15	4	97	0.00	0.0	6.430	0.005	0	0	0	4
PL.3110	PD.409	C	#4 ACSR	7.35Y	122.6	0.00	2.44	0.76	1	5	1	98	0.00	0.0	6.445	0.015	0	0	0	1
PL.2763	PL.3110	C	#4 ACSR	7.35Y	122.6	0.00	2.44	0.76	1	5	1	98	0.00	0.0	6.492	0.047	5	1	1	1
PL.3353	PD.409	C	#4 ACSR	7.35Y	122.6	0.00	2.45	1.39	1	10	3	96	0.00	0.0	6.510	0.080	5	2	1	3
PL.3354	PL.3353	C	#4 ACSR	7.35Y	122.6	0.00	2.45	0.63	0	4	1	97	0.00	0.0	6.523	0.013	4	1	2	2
PL.2761	PL.3114	A	#2 ACSR	7.35Y	122.6	0.00	2.44	0.51	0	4	1	97	0.00	0.0	6.441	0.057	4	1	1	1
PL.2942	PL.3118	A	6 A (CWC)	7.35Y	122.6	0.01	2.44	27.20	19	193	54	96	0.01	0.0	6.312	0.005	0	0	0	61

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.411	PL.2942	A	30T	7.35Y	122.6	0.00	2.44	27.20	0	193	54	96	0.00	0.0	6.312	0.005	0	0	0	61
PL.2943	PD.411	A	6 A (CWC)	7.35Y	122.5	0.05	2.50	27.20	19	193	54	96	0.07	0.0	6.353	0.042	2	1	4	61
PL.2760	PL.2943	A	#4 ACSR	7.35Y	122.5	0.00	2.50	0.00	0	0	0	100	0.00	0.0	6.409	0.056	0	0	1	1
PL.3116	PL.2943	A	6 A (CWC)	7.35Y	122.4	0.06	2.56	26.94	19	191	53	96	0.09	0.0	6.405	0.052	6	2	3	56
PL.2794	PL.3116	A	6 A (CWC)	7.34Y	122.4	0.08	2.64	26.08	19	185	51	96	0.11	0.1	6.472	0.066	0	0	0	53
PL.2795	PL.2794	A	6 A (CWC)	7.34Y	122.4	0.00	2.64	2.31	2	16	5	95	0.00	0.0	6.515	0.043	6	2	1	4
PL.2796	PL.2795	A	#4 ACSR	7.34Y	122.4	0.00	2.64	1.42	1	10	3	96	0.00	0.0	6.531	0.016	10	3	3	3
PL.3108	PL.2794	A	6 A (CWC)	7.34Y	122.3	0.07	2.71	23.76	17	168	47	96	0.09	0.1	6.536	0.064	0	0	1	49
PL.3109	PL.3108	A	6 A (CWC)	7.33Y	122.2	0.09	2.80	22.41	16	158	44	96	0.11	0.1	6.628	0.092	3	1	1	46
PL.3105	PL.3109	A	#4 ACSR	7.33Y	122.2	0.00	2.80	2.03	2	14	4	96	0.00	0.0	6.657	0.029	2	1	1	4
PL.2799	PL.3105	A	#4 ACSR	7.33Y	122.2	0.00	2.80	0.37	0	3	1	95	0.00	0.0	6.693	0.037	3	1	1	1
PL.3355	PL.3105	A	#4 ACSR	7.33Y	122.2	0.00	2.80	1.32	1	9	3	95	0.00	0.0	6.695	0.039	9	3	2	2
PL.3356	PL.3355	A	#4 ACSR	7.33Y	122.2	0.00	2.80	0.00	0	0	0	100	0.00	0.0	6.759	0.063	0	0	0	0
PL.3241	PL.3109	A	6 A (CWC)	7.33Y	122.1	0.08	2.88	19.95	14	141	39	96	0.09	0.1	6.718	0.091	3	1	1	41
PL.3242	PL.3241	A	6 A (CWC)	7.32Y	122.1	0.04	2.92	19.57	14	138	38	96	0.04	0.0	6.766	0.048	5	1	1	40
PL.2800	PL.3242	A	6 A (CWC)	7.32Y	122.1	0.00	2.93	2.35	2	17	5	96	0.00	0.0	6.820	0.054	17	5	5	5
PL.3104	PL.3242	A	6 A (CWC)	7.32Y	122.0	0.06	2.99	16.49	12	116	32	96	0.05	0.0	6.861	0.095	33	9	3	34
PL.3102	PL.3104	A	#4 ACSR	7.32Y	122.0	0.03	3.01	11.82	9	83	23	96	0.02	0.0	6.910	0.049	3	1	1	31
PL.3100	PL.3102	A	#4 ACSR	7.32Y	121.9	0.04	3.05	11.31	9	80	22	96	0.02	0.0	6.994	0.083	4	1	1	29
PL.3101	PL.3100	A	#4 ACSR	7.32Y	121.9	0.02	3.07	10.01	8	71	20	96	0.01	0.0	7.035	0.041	0	0	0	24
PL.2802	PL.3101	A	#4 ACSR	7.31Y	121.9	0.05	3.12	9.77	8	69	19	96	0.03	0.0	7.148	0.113	0	0	0	23
PL.10180	PL.2802	A	#4 ACSR	7.31Y	121.8	0.04	3.16	9.77	8	69	19	96	0.02	0.0	7.235	0.087	6	2	1	23
PL.10181	PL.10180	A	#4 ACSR	7.31Y	121.8	0.01	3.17	8.85	7	62	17	96	0.01	0.0	7.263	0.028	2	1	1	22
PL.2806	PL.10181	A	#4 ACSR	7.31Y	121.8	0.01	3.18	8.50	7	60	17	96	0.01	0.0	7.298	0.035	0	0	0	21
PL.3098	PL.2806	A	6 A (CWC)	7.31Y	121.8	0.02	3.20	3.65	3	26	7	97	0.00	0.0	7.407	0.109	8	2	4	7
PL.3099	PL.3098	A	6 A (CWC)	7.31Y	121.8	0.00	3.20	1.16	1	8	2	97	0.00	0.0	7.504	0.097	8	2	1	1
PL.2966	PL.3099	A	6 A (CWC)	7.31Y	121.8	0.00	3.20	0.00	0	0	0	100	0.00	0.0	7.635	0.131	0	0	0	0
PL.3392	PL.2966	A	6 A (CWC)	7.31Y	121.8	0.00	3.20	0.00	0	0	0	100	0.00	0.0	7.682	0.047	0	0	0	0
PD.359-A	PL.3392	A	Open	7.31Y	121.8	0.00	3.20	0.00	0	0	0	100	0.00	0.0	7.682	0.047	0	0	0	0
PL.2809	PL.3098	A	#2 ACSR	7.31Y	121.8	0.00	3.20	0.00	0	0	0	100	0.00	0.0	7.465	0.058	0	0	1	1
PL.2808	PL.3098	A	#4 ACSR	7.31Y	121.8	0.00	3.20	1.29	1	9	3	95	0.00	0.0	7.460	0.053	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: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2807	PL.2806	A	6 A (CWC)	7.31Y	121.8	0.01	3.19	4.85	3	34	9	97	0.00	0.0	7.347	0.049	0	0	0	14
PL.2961	PL.2807	A	6 A (CWC)	7.31Y	121.8	0.02	3.21	4.85	3	34	9	97	0.01	0.0	7.438	0.091	0	0	0	14
PL.2962	PL.2961	A	6 A (CWC)	7.31Y	121.8	0.02	3.23	4.85	3	34	9	97	0.00	0.0	7.511	0.074	0	0	0	14
PL.2963	PL.2962	A	6 A (CWC)	7.30Y	121.7	0.03	3.25	4.85	3	34	9	97	0.01	0.0	7.629	0.117	0	0	0	14
PL.3096	PL.2963	A	6 A (CWC)	7.30Y	121.7	0.01	3.26	3.82	3	27	7	97	0.00	0.0	7.689	0.060	10	3	5	11
PL.2811	PL.3096	A	#4 ACSR	7.30Y	121.7	0.00	3.26	1.03	1	7	2	96	0.00	0.0	7.759	0.070	7	2	1	1
PL.3097	PL.3096	A	6 A (CWC)	7.30Y	121.7	0.00	3.27	1.38	1	10	3	96	0.00	0.0	7.807	0.118	7	2	3	5
PL.3239	PL.3097	A	6 A (CWC)	7.30Y	121.7	0.00	3.27	0.41	0	3	1	95	0.00	0.0	7.945	0.138	2	1	1	2
PL.3240	PL.3239	A	6 A (CWC)	7.30Y	121.7	0.00	3.27	0.06	0	0	0	100	0.00	0.0	8.081	0.136	0	0	0	1
PL.2813	PL.3240	A	#1/0 ACSR	7.30Y	121.7	0.00	3.27	0.06	0	0	0	100	0.00	0.0	8.173	0.092	0	0	1	1
PL.10199	PL.3240	A	6 A (CWC)	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	8.129	0.048	0	0	0	0
PL.3275	PL.10199	A	6 A (CWC)	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	8.230	0.101	0	0	0	0
PL.3276	PL.3275	A	6 A (CWC)	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	8.362	0.132	0	0	0	0
PL.2964	PL.3276	A	6 A (CWC)	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	8.499	0.137	0	0	0	0
PL.2965	PL.2964	A	6 A (CWC)	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	8.553	0.055	0	0	0	0
PL.4477	PL.2965	A	6 A (CWC)	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	8.650	0.096	0	0	0	0
PL.2810	PL.2963	A	#4 ACSR	7.30Y	121.7	0.00	3.25	1.03	1	7	2	96	0.00	0.0	7.681	0.052	7	2	3	3
PL.2833	PL.3101	A	#4 ACSR	7.32Y	121.9	0.00	3.07	0.24	0	2	0	100	0.00	0.0	7.062	0.027	0	0	0	1
PL.2803	PL.2833	A	#4 ACSR	7.32Y	121.9	0.00	3.07	0.24	0	2	0	100	0.00	0.0	7.099	0.037	2	0	1	1
PL.2801	PL.3100	A	#4 ACSR	7.32Y	121.9	0.01	3.06	0.76	1	5	1	98	0.00	0.0	7.148	0.154	0	0	0	4
PL.2804	PL.2801	A	#1/0 ACSR	7.32Y	121.9	0.00	3.06	0.00	0	0	0	100	0.00	0.0	7.246	0.098	0	0	1	1
PL.2832	PL.2801	A	#4 ACSR	7.32Y	121.9	0.00	3.06	0.76	1	5	1	98	0.00	0.0	7.202	0.054	0	0	0	3
PL.2805	PL.2832	A	#4 ACSR	7.32Y	121.9	0.00	3.06	0.00	0	0	0	100	0.00	0.0	7.221	0.019	0	0	0	0
PL.3244	PL.2832	A	#4 ACSR	7.32Y	121.9	0.00	3.06	0.76	1	5	1	98	0.00	0.0	7.316	0.114	1	0	1	3
PL.3245	PL.3244	A	#4 ACSR	7.32Y	121.9	0.00	3.06	0.60	0	4	1	97	0.00	0.0	7.344	0.028	4	1	1	2
PL.3243	PL.3245	A	#4 ACSR	7.32Y	121.9	0.00	3.06	0.00	0	0	0	100	0.00	0.0	7.394	0.050	0	0	1	1
PL.3246	PL.3243	A	#4 ACSR	7.32Y	121.9	0.00	3.06	0.00	0	0	0	100	0.00	0.0	7.452	0.058	0	0	0	0
PL.3247	PL.3246	A	#4 ACSR	7.32Y	121.9	0.00	3.06	0.00	0	0	0	100	0.00	0.0	7.572	0.120	0	0	0	0
PL.2895	PL.3247	A	#4 ACSR	7.32Y	121.9	0.00	3.06	0.00	0	0	0	100	0.00	0.0	7.645	0.074	0	0	0	0
PL.3103	PL.3102	A	#4 ACSR	7.32Y	122.0	0.00	3.01	0.03	0	0	0	100	0.00	0.0	6.948	0.038	0	0	1	1
PL.2797	PL.3108	A	#4 ACSR	7.34Y	122.3	0.00	2.71	1.35	1	10	3	96	0.00	0.0	6.551	0.016	10	3	2	2

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2798	PL.2797	A	#2 ACSR	7.34Y	122.3	0.00	2.71	0.00	0	0	0	100	0.00	0.0	6.589	0.037	0	0	0	0
PL.3576	PL.3347	C	#4 ACSR	7.35Y	122.6	0.00	2.43	0.53	0	4	1	97	0.00	0.0	6.274	0.005	0	0	0	1
PD.423	PL.3576	C	40QA	7.35Y	122.6	0.00	2.43	0.53	1	4	1	97	0.00	0.0	6.274	0.005	0	0	0	1
PL.3577	PD.423	C	#4 ACSR	7.35Y	122.6	0.00	2.43	0.53	0	4	1	97	0.00	0.0	6.302	0.028	4	1	1	1
PL.3476	PL.3230	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.68	1	5	1	98	0.00	0.0	6.110	0.005	0	0	0	2
PD.400	PL.3476	C	40QA	7.36Y	122.6	0.00	2.39	0.68	2	5	1	98	0.00	0.0	6.110	0.005	0	0	0	2
PL.3477	PD.400	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.68	1	5	1	98	0.00	0.0	6.123	0.014	0	0	1	2
PL.3228	PL.3477	C	#4 ACSR	7.36Y	122.6	0.00	2.39	0.65	1	5	1	98	0.00	0.0	6.168	0.045	5	1	1	1
PL.3478	PL.3117	C	#1/0 ACSR	7.36Y	122.7	0.00	2.26	0.34	0	2	1	89	0.00	0.0	5.623	0.005	0	0	0	1
PD.401	PL.3478	C	40QA	7.36Y	122.7	0.00	2.26	0.34	1	2	1	89	0.00	0.0	5.623	0.005	0	0	0	1
PL.3479	PD.401	C	#1/0 ACSR	7.36Y	122.7	0.00	2.26	0.34	0	2	1	89	0.00	0.0	5.704	0.081	0	0	0	1
PL.3057	PL.3479	C	#1/0 ACSR	7.36Y	122.7	0.00	2.26	0.34	0	2	1	89	0.00	0.0	5.798	0.094	0	0	0	1
PL.2886	PL.3057	C	#1/0 ACSR	7.36Y	122.7	0.00	2.26	0.34	0	2	1	89	0.00	0.0	5.942	0.144	0	0	0	1
PL.2887	PL.2886	C	#1/0 ACSR	7.36Y	122.7	0.00	2.27	0.34	0	2	1	89	0.00	0.0	6.015	0.073	0	0	0	1
PL.25703	PL.2887	C	6 A (CWC)	7.36Y	122.7	0.00	2.27	0.34	0	2	1	89	0.00	0.0	6.084	0.069	0	0	0	1
PD.3629	PL.25703	C	25T	7.36Y	122.7	0.00	2.27	0.34	0	2	1	89	0.00	0.0	6.084	0.069	0	0	0	1
PL.25704	PD.3629	C	6 A (CWC)	7.36Y	122.7	0.00	2.27	0.34	0	2	1	89	0.00	0.0	6.176	0.092	2	1	1	1
PL.3232	PL.25704	C	6 A (CWC)	7.36Y	122.7	0.00	2.27	0.00	0	0	0	100	0.00	0.0	6.202	0.026	0	0	0	0
PL.3472	PL.3222	C	#1/0 ACSR	7.38Y	122.9	0.00	2.05	0.51	0	4	1	97	0.00	0.0	4.865	0.005	0	0	0	2
PD.399	PL.3472	C	40QA	7.38Y	122.9	0.00	2.05	0.51	1	4	1	97	0.00	0.0	4.865	0.005	0	0	0	2
PL.3473	PD.399	C	#1/0 ACSR	7.38Y	122.9	0.00	2.05	0.51	0	4	1	97	0.00	0.0	4.915	0.049	4	1	2	2
PL.4862	PL.3614	C	#4 ACSR	7.41Y	123.4	0.00	1.56	1.52	1	11	3	96	0.00	0.0	3.832	0.003	0	0	0	4
PD.893	PL.4862	C	50QA	7.41Y	123.4	0.00	1.56	1.52	3	11	3	96	0.00	0.0	3.832	0.003	0	0	0	4
PL.4863	PD.893	C	#4 ACSR	7.41Y	123.4	0.00	1.56	1.52	1	11	3	96	0.00	0.0	3.933	0.101	11	3	4	4
PL.2828	PL.3614	B	#4 ACSR	7.41Y	123.4	0.00	1.56	0.27	0	2	1	89	0.00	0.0	3.861	0.033	2	1	1	1
CP.7	PL.3613	ABC	Cap (297)	7.41Y	123.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	3.778	0.033	0	0	0	0
PL.3414	PL.2670	A	#4 ACSR	7.35Y	122.5	0.00	2.45	0.00	0	0	0	100	0.00	0.0	2.998	0.005	0	0	0	0
PD.370	PL.3414	A	40QA	7.35Y	122.5	0.00	2.45	0.00	0	0	0	100	0.00	0.0	2.998	0.005	0	0	0	0
PL.3415	PD.370	A	#4 ACSR	7.35Y	122.5	0.00	2.45	0.00	0	0	0	100	0.00	0.0	3.073	0.074	0	0	0	0
PL.3400	PL.3050	C	#4 ACSR	7.41Y	123.5	0.00	1.52	0.77	1	6	2	95	0.00	0.0	1.864	0.005	0	0	0	1
PD.364	PL.3400	C	40QA	7.41Y	123.5	0.00	1.52	0.77	2	6	2	95	0.00	0.0	1.864	0.005	0	0	0	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3401	PD.364	C	#4 ACSR	7.41Y	123.5	0.00	1.52	0.77	1	6	2	95	0.00	0.0	1.897	0.033	6	2	1	1
PL.3566	PL.2595	C	#4 ACSR	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	1.587	0.005	0	0	0	0
PD.418	PL.3566	C	40QA	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	1.587	0.005	0	0	0	0
PL.3567	PD.418	C	#4 ACSR	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	1.683	0.096	0	0	0	0
PL.3406	PL.2595	C	#4 ACSR	7.42Y	123.7	0.00	1.33	0.92	1	7	2	96	0.00	0.0	1.587	0.005	0	0	0	1
PD.367	PL.3406	C	40QA	7.42Y	123.7	0.00	1.33	0.92	2	7	2	96	0.00	0.0	1.587	0.005	0	0	0	1
PL.3407	PD.367	C	#4 ACSR	7.42Y	123.7	0.00	1.33	0.92	1	7	2	96	0.00	0.0	1.660	0.073	7	2	1	1
PL.3398	PL.3091	A	#2 ACSR	7.43Y	123.9	0.00	1.13	7.85	4	56	16	96	0.00	0.0	1.301	0.005	0	0	0	10
PD.363	PL.3398	A	20T	7.43Y	123.9	0.00	1.13	7.85	0	56	16	96	0.00	0.0	1.301	0.005	0	0	0	10
PL.3399	PD.363	A	#2 ACSR	7.43Y	123.9	0.00	1.13	7.85	4	56	16	96	0.00	0.0	1.320	0.019	15	4	3	10
PL.2584	PL.3399	A	#2 ACSR	7.43Y	123.9	0.01	1.14	5.74	3	41	11	97	0.00	0.0	1.383	0.064	18	5	2	7
PL.2586	PL.2584	A	#2 ACSR	7.43Y	123.9	0.00	1.15	3.26	2	23	6	97	0.00	0.0	1.430	0.047	0	0	0	5
PL.2587	PL.2586	A	#2 ACSR	7.43Y	123.9	0.00	1.15	2.45	1	18	5	96	0.00	0.0	1.462	0.032	18	5	4	4
PL.2588	PL.2586	A	#4 ACSR	7.43Y	123.9	0.00	1.15	0.80	1	6	2	95	0.00	0.0	1.526	0.096	0	0	0	1
PL.2590	PL.2588	A	#4 ACSR	7.43Y	123.8	0.00	1.15	0.80	1	6	2	95	0.00	0.0	1.551	0.024	0	0	0	1
PL.2591	PL.2590	A	#4 ACSR	7.43Y	123.8	0.00	1.15	0.80	1	6	2	95	0.00	0.0	1.592	0.041	6	2	1	1
PL.2593	PL.2591	A	#2 ACSR	7.43Y	123.8	0.00	1.15	0.00	0	0	0	100	0.00	0.0	1.744	0.152	0	0	0	0
PL.2582	PL.2865	ABC	336 MCM AC	7.44Y	124.0	0.00	0.97	16.87	3	363	101	96	0.01	0.0	1.114	0.031	11	3	1	89
PL.2691	PL.2582	ABC	#4/0 ACSR	7.44Y	124.0	0.01	0.98	16.34	5	351	98	96	0.02	0.0	1.180	0.066	0	0	0	88
PL.3603	PL.2691	ABC	336 MCM AC	7.44Y	124.0	0.01	0.99	16.34	3	351	98	96	0.01	0.0	1.226	0.046	0	0	0	88
PD.436	PL.3603	ABC	70L	7.44Y	124.0	0.00	0.99	16.34	23	351	98	96	0.00	0.0	1.226	0.046	0	0	0	88
PL.3604	PD.436	ABC	336 MCM AC	7.44Y	124.0	0.01	1.00	16.34	3	351	98	96	0.01	0.0	1.285	0.059	0	0	0	88
PL.3202	PL.3604	ABC	336 MCM AC	7.44Y	124.0	0.01	1.01	15.74	3	338	94	96	0.02	0.0	1.401	0.117	11	3	3	85
PL.3203	PL.3202	ABC	336 MCM AC	7.44Y	124.0	0.00	1.01	15.25	3	328	91	96	0.01	0.0	1.443	0.042	2	1	2	82
PL.3201	PL.3203	ABC	336 MCM AC	7.44Y	124.0	0.01	1.03	15.16	3	326	91	96	0.02	0.0	1.571	0.128	0	0	0	80
PL.3086	PL.3201	ABC	336 MCM AC	7.44Y	124.0	0.01	1.04	15.16	3	326	91	96	0.02	0.0	1.656	0.085	4	1	1	80
PL.3088	PL.3086	ABC	336 MCM AC	7.44Y	124.0	0.01	1.05	14.86	3	319	89	96	0.02	0.0	1.759	0.103	0	0	0	78
PL.2692	PL.3088	B	#2 ACSR	7.44Y	123.9	0.01	1.05	1.67	1	12	3	97	0.00	0.0	1.861	0.102	0	0	0	2
PL.2693	PL.2692	B	#1/0 ACSR	7.44Y	123.9	0.00	1.05	1.67	1	12	3	97	0.00	0.0	1.865	0.005	0	0	0	2
PD.394	PL.2693	B	40QA	7.44Y	123.9	0.00	1.05	1.67	4	12	3	97	0.00	0.0	1.865	0.005	0	0	0	2
PL.3089	PD.394	B	#2 ACSR	7.44Y	123.9	0.00	1.06	1.07	1	8	2	97	0.00	0.0	1.871	0.006	0	0	0	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2700	PL.3089	B	#2 ACSR	7.44Y	123.9	0.00	1.06	1.07	1	8	2	97	0.00	0.0	1.892	0.021	8	2	1	1
PL.2818	PD.394	B	#1/0 ACSR	7.44Y	123.9	0.00	1.06	0.60	0	4	1	97	0.00	0.0	1.945	0.080	4	1	1	1
PL.2817	PL.3088	ABC	336 MCM AC	7.44Y	123.9	0.01	1.06	14.30	3	307	86	96	0.01	0.0	1.824	0.065	0	0	0	76
PL.3460	PL.2817	A	#4 ACSR	7.44Y	123.9	0.00	1.06	0.00	0	0	0	100	0.00	0.0	1.828	0.004	0	0	0	0
PD.392	PL.3460	A	40QA	7.44Y	123.9	0.00	1.06	0.00	0	0	0	100	0.00	0.0	1.828	0.004	0	0	0	0
PL.3461	PD.392	A	#4 ACSR	7.44Y	123.9	0.00	1.06	0.00	0	0	0	100	0.00	0.0	1.842	0.014	0	0	0	0
PL.2819	PL.2817	ABC	336 MCM AC	7.44Y	123.9	0.01	1.07	14.30	3	307	85	96	0.02	0.0	1.932	0.109	0	0	0	76
PL.2820	PL.2819	ABC	336 MCM AC	7.44Y	123.9	0.01	1.08	14.27	3	307	85	96	0.02	0.0	2.056	0.124	0	0	0	75
PL.2867	PL.2820	ABC	336 MCM AC	7.43Y	123.9	0.01	1.09	14.27	3	307	85	96	0.02	0.0	2.158	0.102	0	0	0	75
PL.2868	PL.2867	ABC	336 MCM AC	7.43Y	123.9	0.01	1.11	14.27	3	307	85	96	0.02	0.0	2.288	0.130	0	0	0	75
PL.3595	PL.2868	A	#4 ACSR	7.43Y	123.9	0.00	1.11	27.30	21	195	54	96	0.00	0.0	2.291	0.003	0	0	0	55
PD.432	PL.3595	A	50H	7.43Y	123.9	0.00	1.11	27.30	55	195	54	96	0.00	0.0	2.291	0.003	0	0	0	55
PL.3596	PD.432	A	#4 ACSR	7.43Y	123.8	0.04	1.15	27.30	21	195	54	96	0.06	0.0	2.327	0.036	9	3	2	55
PL.2694	PL.3596	A	#2 ACSR	7.43Y	123.8	0.04	1.19	26.02	15	186	52	96	0.05	0.0	2.377	0.050	0	0	1	53
PL.3080	PL.2694	A	#2 ACSR	7.42Y	123.7	0.07	1.26	25.96	15	186	52	96	0.09	0.0	2.460	0.083	0	0	1	52
PL.3258	PL.3080	A	#2 ACSR	7.42Y	123.7	0.00	1.26	1.69	1	12	3	97	0.00	0.0	2.486	0.027	11	3	1	2
PL.3259	PL.3258	A	#2 ACSR	7.42Y	123.7	0.00	1.26	0.18	0	1	0	100	0.00	0.0	2.506	0.020	1	0	1	1
PL.3081	PL.3080	A	#2 ACSR	7.42Y	123.7	0.05	1.31	24.27	14	174	48	96	0.06	0.0	2.532	0.073	15	4	2	49
PL.3256	PL.3081	A	#2 ACSR	7.42Y	123.7	0.00	1.32	2.59	1	19	5	97	0.00	0.0	2.569	0.037	14	4	3	4
PL.3257	PL.3256	A	#2 ACSR	7.42Y	123.7	0.00	1.32	0.66	0	5	1	98	0.00	0.0	2.665	0.096	5	1	1	1
PL.25726	PL.3081	A	#1/0 ACSR	7.42Y	123.7	0.02	1.33	19.63	9	140	39	96	0.02	0.0	2.569	0.037	0	0	0	43
PL.25727	PL.25726	A	#1/0 ACSR	7.42Y	123.6	0.03	1.36	19.03	8	136	38	96	0.02	0.0	2.632	0.062	0	0	0	42
PL.3083	PL.25727	A	#2 ACSR	7.42Y	123.6	0.05	1.41	19.03	11	136	38	96	0.05	0.0	2.715	0.083	4	1	1	42
PL.2702	PL.3083	A	#2 ACSR	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	2.771	0.056	0	0	0	0
PL.33104	PL.3083	A	#2 ACSR	7.41Y	123.5	0.05	1.45	18.49	11	132	37	96	0.04	0.0	2.793	0.078	0	0	0	41
PL.33105	PL.33104	A	#2 ACSR	7.41Y	123.5	0.02	1.47	18.49	11	132	37	96	0.02	0.0	2.826	0.033	0	0	2	41
PL.3255	PL.33105	A	#2 ACSR	7.41Y	123.5	0.05	1.52	18.47	11	132	37	96	0.04	0.0	2.906	0.080	0	0	0	39
PL.3260	PL.3255	A	#2 ACSR	7.40Y	123.4	0.07	1.59	16.64	10	119	33	96	0.06	0.0	3.044	0.139	8	2	1	33
PL.3261	PL.3260	A	#2 ACSR	7.40Y	123.4	0.04	1.63	15.56	9	111	31	96	0.03	0.0	3.128	0.084	0	0	0	32
PL.2821	PL.3261	A	#2 ACSR	7.40Y	123.3	0.06	1.69	14.69	8	105	29	96	0.05	0.0	3.258	0.130	0	0	0	31
PL.3084	PL.2821	A	#2 ACSR	7.40Y	123.3	0.03	1.72	14.69	8	105	29	96	0.02	0.0	3.325	0.067	6	2	3	31

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2705	PL.3084	A	#2 ACSR	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	3.368	0.043	0	0	2	2
PL.3085	PL.3084	A	#2 ACSR	7.40Y	123.3	0.02	1.74	13.80	8	98	27	96	0.02	0.0	3.385	0.060	17	5	3	26
PL.2708	PL.3085	A	6 A (CWC)	7.39Y	123.2	0.05	1.80	11.41	8	81	23	96	0.03	0.0	3.485	0.101	0	0	0	23
PL.2706	PL.2708	A	6 A (CWC)	7.39Y	123.2	0.00	1.80	0.09	0	1	0	100	0.00	0.0	3.514	0.029	1	0	1	1
PL.2822	PL.2708	A	6 A (CWC)	7.39Y	123.1	0.08	1.88	11.32	8	81	22	97	0.05	0.1	3.655	0.169	8	2	2	22
PL.3268	PL.2822	A	6 A (CWC)	7.39Y	123.1	0.00	1.88	3.37	2	24	7	96	0.00	0.0	3.695	0.040	24	7	4	5
PL.3269	PL.3268	A	6 A (CWC)	7.39Y	123.1	0.00	1.88	0.00	0	0	0	100	0.00	0.0	3.867	0.172	0	0	1	1
PL.3267	PL.2822	A	6 A (CWC)	7.39Y	123.1	0.03	1.91	6.89	5	49	14	96	0.01	0.0	3.744	0.089	1	0	1	15
PL.3270	PL.3267	A	6 A (CWC)	7.38Y	123.1	0.02	1.92	6.74	5	48	13	97	0.01	0.0	3.797	0.053	8	2	1	14
PL.3271	PL.3270	A	6 A (CWC)	7.38Y	123.1	0.01	1.93	5.68	4	40	11	96	0.00	0.0	3.849	0.053	11	3	3	13
PL.3266	PL.3271	A	6 A (CWC)	7.38Y	123.0	0.02	1.95	4.16	3	30	8	97	0.00	0.0	3.939	0.090	2	1	1	10
PL.3265	PL.3266	A	6 A (CWC)	7.38Y	123.0	0.01	1.96	3.89	3	28	8	96	0.00	0.0	3.978	0.039	0	0	1	9
PL.3262	PL.3265	A	6 A (CWC)	7.38Y	123.0	0.01	1.96	3.89	3	28	8	96	0.00	0.0	4.025	0.047	11	3	2	8
PL.3263	PL.3262	A	6 A (CWC)	7.38Y	123.0	0.00	1.97	2.36	2	17	5	96	0.00	0.0	4.055	0.030	1	0	2	6
PL.3264	PL.3263	A	6 A (CWC)	7.38Y	123.0	0.01	1.98	2.18	2	15	4	97	0.00	0.0	4.156	0.101	0	0	0	4
PL.2870	PL.3264	A	6 A (CWC)	7.38Y	123.0	0.01	1.99	2.18	2	15	4	97	0.00	0.0	4.288	0.132	0	0	0	4
PL.3272	PL.2870	A	6 A (CWC)	7.38Y	123.0	0.01	2.00	2.18	2	15	4	97	0.00	0.0	4.380	0.092	10	3	3	4
PL.3273	PL.3272	A	6 A (CWC)	7.38Y	123.0	0.00	2.00	0.76	1	5	2	93	0.00	0.0	4.435	0.055	5	2	1	1
PL.4476	PL.3273	A	6 A (CWC)	7.38Y	123.0	0.00	2.00	0.00	0	0	0	100	0.00	0.0	4.443	0.008	0	0	0	0
PL.2704	PL.3261	A	#4 ACSR	7.40Y	123.4	0.00	1.63	0.87	1	6	2	95	0.00	0.0	3.208	0.080	6	2	1	1
PL.10200	PL.3255	A	#2 ACSR	7.41Y	123.5	0.00	1.52	1.83	1	13	4	96	0.00	0.0	2.959	0.054	0	0	0	6
PL.3251	PL.10200	A	#2 ACSR	7.41Y	123.5	0.00	1.53	1.83	1	13	4	96	0.00	0.0	3.034	0.075	3	1	1	6
PL.3252	PL.3251	A	#2 ACSR	7.41Y	123.5	0.00	1.53	1.46	1	10	3	96	0.00	0.0	3.170	0.136	5	1	1	5
PL.3253	PL.3252	A	#2 ACSR	7.41Y	123.5	0.00	1.53	0.78	0	6	2	95	0.00	0.0	3.275	0.105	0	0	0	4
PL.3250	PL.3253	A	#2 ACSR	7.41Y	123.5	0.00	1.53	0.78	0	6	2	95	0.00	0.0	3.364	0.089	5	1	2	4
PL.3248	PL.3250	A	#4 ACSR	7.41Y	123.5	0.00	1.53	0.15	0	1	0	100	0.00	0.0	3.395	0.031	1	0	2	2
PL.3249	PL.3248	A	#4 ACSR	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	3.433	0.038	0	0	0	0
PL.25725	PL.25726	A	#1/0 ACSR	7.42Y	123.7	0.00	1.33	0.59	0	4	1	97	0.00	0.0	2.601	0.032	4	1	1	1
PL.3568	PL.2868	C	#2 ACSR	7.43Y	123.9	0.00	1.11	15.51	9	111	31	96	0.00	0.0	2.293	0.005	0	0	0	20
PD.419	PL.3568	C	20T	7.43Y	123.9	0.00	1.11	15.51	0	111	31	96	0.00	0.0	2.293	0.005	0	0	0	20
PL.3569	PD.419	C	#2 ACSR	7.43Y	123.9	0.01	1.12	15.51	9	111	31	96	0.01	0.0	2.316	0.023	9	2	1	20

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.2707	PL.3569	C	#4 ACSR	7.43Y	123.9	0.02	1.14	14.26	11	102	28	96	0.02	0.0	2.350	0.034	5	1	1	19
PL.3205	PL.2707	C	#4 ACSR	7.43Y	123.8	0.02	1.16	13.50	10	97	27	96	0.01	0.0	2.383	0.033	0	0	0	18
PL.3208	PL.3205	C	#4 ACSR	7.43Y	123.8	0.02	1.18	11.26	9	81	22	97	0.01	0.0	2.428	0.045	6	2	1	16
PL.3209	PL.3208	C	#4 ACSR	7.43Y	123.8	0.01	1.20	10.46	8	75	21	96	0.01	0.0	2.458	0.030	0	0	0	15
PL.3206	PL.3209	C	#4 ACSR	7.43Y	123.8	0.00	1.20	0.80	1	6	2	95	0.00	0.0	2.482	0.024	0	0	1	2
PL.3207	PL.3206	C	#4 ACSR	7.43Y	123.8	0.00	1.20	0.80	1	6	2	95	0.00	0.0	2.548	0.066	6	2	1	1
PL.3388	PL.3209	C	#4 ACSR	7.43Y	123.8	0.02	1.21	9.66	7	69	19	96	0.01	0.0	2.500	0.042	23	6	3	13
PL.3389	PL.3388	C	#4 ACSR	7.43Y	123.8	0.01	1.22	6.48	5	46	13	96	0.00	0.0	2.544	0.044	6	2	2	10
PL.3204	PL.3389	C	#4 ACSR	7.43Y	123.8	0.01	1.23	5.67	4	41	11	97	0.00	0.0	2.603	0.059	13	4	4	8
PL.3211	PL.3204	C	#4 ACSR	7.43Y	123.8	0.01	1.25	3.80	3	27	8	96	0.00	0.0	2.708	0.105	15	4	2	4
PL.3212	PL.3211	C	#4 ACSR	7.43Y	123.8	0.00	1.25	1.65	1	12	3	97	0.00	0.0	2.732	0.024	5	1	1	2
PL.3210	PL.3212	C	#4 ACSR	7.43Y	123.8	0.00	1.25	0.92	1	7	2	96	0.00	0.0	2.779	0.047	7	2	1	1
PL.10179	PL.3205	C	#1/0 ACSR	7.43Y	123.8	0.00	1.16	2.24	1	16	4	97	0.00	0.0	2.416	0.033	16	4	2	2
PL.3466	PL.2819	C	#2 ACSR	7.44Y	123.9	0.00	1.07	0.10	0	1	0	100	0.00	0.0	1.937	0.005	0	0	0	1
PD.396	PL.3466	C	40QA	7.44Y	123.9	0.00	1.07	0.10	0	1	0	100	0.00	0.0	1.937	0.005	0	0	0	1
PL.3467	PD.396	C	#2 ACSR	7.44Y	123.9	0.00	1.07	0.10	0	1	0	100	0.00	0.0	1.963	0.026	1	0	1	1
PL.3462	PL.3086	C	#4 ACSR	7.44Y	124.0	0.00	1.04	0.30	0	2	1	89	0.00	0.0	1.661	0.005	0	0	0	1
PD.393	PL.3462	C	40QA	7.44Y	124.0	0.00	1.04	0.30	1	2	1	89	0.00	0.0	1.661	0.005	0	0	0	1
PL.3463	PD.393	C	#4 ACSR	7.44Y	124.0	0.00	1.04	0.30	0	2	1	89	0.00	0.0	1.736	0.075	2	1	1	1
PL.3464	PL.3604	C	#2 ACSR	7.44Y	124.0	0.00	1.00	1.81	1	13	4	96	0.00	0.0	1.289	0.005	0	0	0	3
PD.395	PL.3464	C	40QA	7.44Y	124.0	0.00	1.00	1.81	5	13	4	96	0.00	0.0	1.289	0.005	0	0	0	3
PL.3465	PD.395	C	#2 ACSR	7.44Y	124.0	0.00	1.00	1.81	1	13	4	96	0.00	0.0	1.309	0.020	13	4	3	3
PL.3562	PL.2581	A	#2 ACSR	7.46Y	124.4	0.00	0.59	1.31	1	9	3	95	0.00	0.0	0.661	0.005	0	0	0	1
PD.416	PL.3562	A	40QA	7.46Y	124.4	0.00	0.59	1.31	3	9	3	95	0.00	0.0	0.661	0.005	0	0	0	1
PL.3563	PD.416	A	#2 ACSR	7.46Y	124.4	0.00	0.59	1.31	1	9	3	95	0.00	0.0	0.680	0.019	9	3	1	1
PL.3422	PL.2581	C	#2 ACSR	7.46Y	124.4	0.00	0.59	1.02	1	7	2	96	0.00	0.0	0.661	0.005	0	0	0	2
PD.374	PL.3422	C	40QA	7.46Y	124.4	0.00	0.59	1.02	3	7	2	96	0.00	0.0	0.661	0.005	0	0	0	2
PL.3423	PD.374	C	#2 ACSR	7.46Y	124.4	0.00	0.59	1.02	1	7	2	96	0.00	0.0	0.679	0.018	7	2	2	2
PL.2576	PL.2863	C	#2 ACSR	7.48Y	124.6	0.00	0.38	4.24	2	31	8	97	0.00	0.0	0.440	0.020	0	0	0	4
PL.3418	PL.2576	C	#2 ACSR	7.48Y	124.6	0.00	0.39	4.24	2	31	8	97	0.00	0.0	0.444	0.005	0	0	0	4
PD.372	PL.3418	C	40QA	7.48Y	124.6	0.00	0.39	4.24	11	31	8	97	0.00	0.0	0.444	0.005	0	0	0	4

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

Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.3419	PD.372	C	#2 ACSR	7.48Y	124.6	0.00	0.39	4.24	2	31	8	97	0.00	0.0	0.459	0.015	0	0	0	4
PL.2578	PL.3419	C	#4 ACSR	7.48Y	124.6	0.00	0.39	3.30	3	24	7	96	0.00	0.0	0.478	0.019	24	7	3	3
PL.2577	PL.3419	C	#2 ACSR	7.48Y	124.6	0.00	0.39	0.94	1	7	2	96	0.00	0.0	0.495	0.036	7	2	1	1
PL.1257	Goose Rock	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	2.94	1	62	24	93	0.00	0.0	0.007	0.007	0	0	0	4
PL.7163	PL.1257	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	2.94	1	62	24	93	0.00	0.0	0.009	0.002	0	0	0	4
---------- Feeder No. 5 (Clay Ind Park F5) Beginning with Device PD.1530 ----------																				
PD.1530	PL.7163	ABC	480VWE	7.50Y	125.0	0.00	0.00	2.94	0	62	24	93	0.00	0.0	0.009	0.002	0	0	0	4
PL.7164	PD.1530	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	2.94	1	62	24	93	0.00	0.0	0.020	0.011	0	0	0	4
PL.1299	PL.7164	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	2.94	1	62	24	93	0.00	0.0	0.281	0.261	0	0	0	4
PL.1290	PL.1299	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	2.94	1	62	24	93	0.00	0.0	0.473	0.192	0	0	0	4
PL.1291	PL.1290	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	2.94	1	62	24	93	0.00	0.0	0.640	0.167	0	0	0	4
PL.1231	PL.1291	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	2.94	1	62	24	93	0.00	0.0	0.834	0.194	0	0	0	4
PL.1230	PL.1231	ABC	397 SPACER	7.50Y	125.0	0.01	0.02	2.94	1	62	24	93	0.00	0.0	1.491	0.657	0	0	0	4
PL.1343	PL.1230	ABC	397 SPACER	7.50Y	125.0	0.00	0.02	2.94	1	62	24	93	0.00	0.0	1.858	0.367	0	0	0	4
PL.1344	PL.1343	ABC	397 SPACER	7.50Y	125.0	0.00	0.02	2.94	1	62	24	93	0.00	0.0	2.048	0.189	0	0	0	4
PL.1229	PL.1344	ABC	397 SPACER	7.50Y	125.0	0.00	0.03	2.94	1	62	24	93	0.00	0.0	2.369	0.321	0	0	0	4
PL.1245	PL.1229	ABC	336 MCM AC	7.50Y	125.0	0.00	0.03	2.49	0	52	22	92	0.00	0.0	2.577	0.208	0	0	0	3
PL.1240	PL.1245	ABC	336 MCM AC	7.50Y	125.0	0.00	0.04	2.49	0	52	22	92	0.00	0.0	2.756	0.179	0	0	0	3
PL.1227	PL.1240	ABC	336 MCM AC	7.50Y	125.0	0.00	0.04	1.75	0	35	17	90	0.00	0.0	2.802	0.046	0	0	0	2
PL.1347	PL.1227	ABC	350 MCM AL	7.50Y	125.0	0.00	0.04	1.75	1	35	17	90	0.00	0.0	2.805	0.003	0	0	0	2
PD.185-A	PL.1347	ABC	Closed	7.50Y	125.0	0.00	0.04	1.75	0	35	17	90	0.00	0.0	2.805	0.003	0	0	0	2
PD.185-B	PD.185-A	ABC	Closed	7.50Y	125.0	0.00	0.04	1.75	0	35	17	90	0.00	0.0	2.805	0.003	0	0	0	2
PL.1348	PD.185-B	ABC	350 MCM AL	7.50Y	125.0	0.01	0.04	1.75	1	35	17	90	0.00	0.0	3.330	0.524	0	0	0	2
PD.154-A	PL.1348	ABC	Closed	7.50Y	125.0	0.00	0.04	1.75	0	35	17	90	0.00	0.0	3.330	0.524	0	0	0	2
PD.154-B	PD.154-A	ABC	Closed	7.50Y	125.0	0.00	0.04	1.75	0	35	17	90	0.00	0.0	3.330	0.524	0	0	0	2
PL.1225	PD.154-B	ABC	350 MCM AL	7.50Y	125.0	0.00	0.04	1.65	1	33	16	90	0.00	0.0	3.481	0.152	0	0	0	1
PD.153-A	PL.1225	ABC	Closed	7.50Y	125.0	0.00	0.04	1.65	0	33	16	90	0.00	0.0	3.481	0.152	0	0	0	1
PD.153-B	PD.153-A	ABC	Closed	7.50Y	125.0	0.00	0.04	1.65	0	33	16	90	0.00	0.0	3.481	0.152	0	0	0	1
PL.1247	PD.153-B	ABC	350 MCM AL	7.50Y	125.0	0.00	0.04	1.65	1	33	16	90	0.00	0.0	3.565	0.084	0	0	0	1

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Balanced Voltage Drop Report
Source: Goose Rock

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.1248	PL.1247	ABC	350 MCM AL	7.50Y	125.0	0.00	0.04	1.65	1	33	16	90	0.00	0.0	3.586	0.021	33	16	1	1
PL.1226	PD.154-B	ABC	350 MCM AL	7.50Y	125.0	0.00	0.04	0.10	0	2	1	89	0.00	0.0	3.353	0.023	2	1	1	1
PL.1345	PL.1240	ABC	#2 ACSR	7.50Y	125.0	0.00	0.04	0.75	0	16	4	97	0.00	0.0	2.816	0.060	0	0	0	1
PD.184	PL.1345	ABC	100QA	7.50Y	125.0	0.00	0.04	0.75	1	16	4	97	0.00	0.0	2.816	0.060	0	0	0	1
PL.1346	PD.184	ABC	#2 ACSR	7.50Y	125.0	0.00	0.04	0.75	0	16	4	97	0.00	0.0	2.839	0.022	16	4	1	1
PL.63	PL.1229	B	8 A (CWC)	7.50Y	125.0	0.00	0.03	1.36	1	10	3	96	0.00	0.0	2.406	0.037	10	3	1	1

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	11274	0	0	0	0	0	321	0.00	11595
KVAR	3218	0	0	0	0	0	607		3825

Lowest Voltage = 118.04 on Element PL.3303
Max Accm VoltD = 6.96 on Element PL.3303
Max Elem VoltD = 0.42 on Element PL.1393