

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
Greenbriar		ABC	SRC-Greenb	7.50Y	125.0	0.00	0.00	500.06	0	10721	3415	95	0.00	0.0	0.000	0.000	0	0	0	1628
PL.4927	Greenbriar	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	134.46	26	2926	770	97	0.12	0.0	0.008	0.008	0	0	0	636
PL.7530	PL.4927	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	134.46	26	2926	770	97	0.03	0.0	0.010	0.002	0	0	0	636
----- Feeder No. 4 (Fox Hollow F4) Beginning with Device PD.1909 -----																				
PD.1909	PL.7530	ABC	480VWE	7.50Y	125.0	0.00	0.01	134.46	0	2926	769	97	0.00	0.0	0.010	0.002	0	0	0	636
PL.7531	PD.1909	ABC	336 MCM AC	7.49Y	124.9	0.08	0.09	134.46	26	2926	769	97	1.31	0.0	0.095	0.086	0	0	1	636
PL.4908	PL.7531	ABC	336 MCM AC	7.49Y	124.9	0.01	0.10	134.44	26	2924	766	97	0.11	0.0	0.103	0.007	0	0	0	635
PL.4897	PL.4908	ABC	336 MCM AC	7.49Y	124.8	0.11	0.21	134.44	26	2924	766	97	1.69	0.1	0.214	0.111	0	0	0	635
PL.4896	PL.4897	ABC	336 MCM AC	7.48Y	124.7	0.12	0.33	134.44	26	2922	762	97	1.82	0.1	0.333	0.119	0	0	0	635
PL.4882	PL.4896	A	#4 ACSR	7.48Y	124.7	0.00	0.33	0.67	1	5	1	98	0.00	0.0	0.465	0.132	5	1	1	1
PL.4911	PL.4896	ABC	336 MCM AC	7.48Y	124.6	0.04	0.36	134.22	26	2915	757	97	0.56	0.0	0.370	0.037	7	2	1	634
PL.4912	PL.4911	ABC	336 MCM AC	7.48Y	124.6	0.05	0.41	133.88	26	2907	754	97	0.81	0.0	0.424	0.054	0	0	0	633
PL.4890	PL.4912	ABC	336 MCM AC	7.47Y	124.5	0.07	0.49	133.59	26	2900	751	97	1.09	0.0	0.496	0.073	0	0	0	631
PL.4482	PL.4890	C	#2 ACSR	7.47Y	124.5	0.00	0.49	9.98	6	73	15	98	0.00	0.0	0.500	0.003	0	0	0	15
PD.912	PL.4482	C	65T	7.47Y	124.5	0.00	0.49	9.98	0	73	15	98	0.00	0.0	0.500	0.003	0	0	0	15
PL.4483	PD.912	C	#2 ACSR	7.47Y	124.5	0.02	0.50	9.98	6	73	15	98	0.01	0.0	0.558	0.058	4	1	2	15
PL.4910	PL.4483	C	#2 ACSR	7.47Y	124.5	0.01	0.51	9.50	5	69	15	98	0.01	0.0	0.595	0.037	4	1	2	13
PL.4909	PL.4910	C	#2 ACSR	7.47Y	124.5	0.02	0.54	8.96	5	65	14	98	0.01	0.0	0.675	0.080	6	1	2	11
PL.4884	PL.4909	C	#4 ACSR	7.47Y	124.5	0.01	0.54	3.18	2	23	5	98	0.00	0.0	0.712	0.036	0	0	0	4
PL.4885	PL.4884	C	#4 ACSR	7.47Y	124.5	0.00	0.54	0.00	0	0	0	100	0.00	0.0	0.724	0.012	0	0	0	0
PL.4891	PL.4884	C	#4 ACSR	7.47Y	124.5	0.00	0.54	3.18	2	23	5	98	0.00	0.0	0.722	0.011	23	5	4	4
PL.4883	PL.4909	C	#2 ACSR	7.47Y	124.5	0.00	0.54	5.02	3	37	8	98	0.00	0.0	0.697	0.022	0	0	0	5
PL.4484	PL.4883	C	1/0 AL URD	7.47Y	124.5	0.00	0.54	3.27	2	24	5	98	0.00	0.0	0.700	0.004	0	0	0	4
PD.913	PL.4484	C	65T	7.47Y	124.5	0.00	0.54	3.27	0	24	5	98	0.00	0.0	0.700	0.004	0	0	0	4
PL.4485	PD.913	C	1/0 AL URD	7.47Y	124.5	0.00	0.54	3.27	2	24	5	98	0.00	0.0	0.713	0.013	13	3	2	4
PL.4889	PL.4485	C	1/0 AL URD	7.47Y	124.5	0.00	0.54	0.00	0	0	0	100	0.00	0.0	0.743	0.030	0	0	0	0
PL.4892	PL.4485	C	1/0 AL URD	7.47Y	124.5	0.00	0.54	1.47	1	11	2	98	0.00	0.0	0.742	0.028	11	2	2	2
PL.4486	PL.4883	C	1/0 AL URD	7.47Y	124.5	0.00	0.54	1.75	1	13	3	97	0.00	0.0	0.700	0.003	0	0	0	1
PD.914	PL.4486	C	65T	7.47Y	124.5	0.00	0.54	1.75	0	13	3	97	0.00	0.0	0.700	0.003	0	0	0	1
PL.4487	PD.914	C	1/0 AL URD	7.47Y	124.5	0.00	0.54	1.75	1	13	3	97	0.00	0.0	0.739	0.039	13	3	1	1

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PL.4901	PL.4890	ABC	336 MCM AC	7.46Y	124.4	0.11	0.60	130.26	25	2826	733	97	1.73	0.1	0.618	0.121	0	0	0	616
PL.4902	PL.4901	ABC	336 MCM AC	7.46Y	124.3	0.08	0.68	130.21	25	2823	728	97	1.25	0.0	0.705	0.088	0	0	0	615
PL.4893	PL.4902	ABC	336 MCM AC	7.45Y	124.2	0.14	0.83	124.31	24	2701	666	97	2.10	0.1	0.866	0.161	0	0	0	613
PL.4895	PL.4893	ABC	336 MCM AC	7.45Y	124.2	0.02	0.85	122.62	24	2662	654	97	0.35	0.0	0.894	0.027	0	0	0	612
PL.4906	PL.4895	ABC	336 MCM AC	7.44Y	124.0	0.12	0.97	122.62	24	2661	653	97	1.81	0.1	1.036	0.143	4	1	2	612
PL.4907	PL.4906	ABC	336 MCM AC	7.44Y	124.0	0.03	1.01	122.43	24	2655	648	97	0.44	0.0	1.071	0.035	0	0	0	610
PL.4904	PL.4907	B	#4 ACSR	7.44Y	124.0	0.01	1.01	3.84	3	28	6	98	0.00	0.0	1.110	0.039	13	3	1	4
PL.4905	PL.4904	B	#4 ACSR	7.44Y	124.0	0.00	1.01	2.11	2	15	3	98	0.00	0.0	1.151	0.041	7	1	1	3
PL.4903	PL.4905	B	#4 ACSR	7.44Y	124.0	0.00	1.01	1.17	1	9	2	98	0.00	0.0	1.181	0.030	9	2	2	2
PL.4888	PL.4907	ABC	336 MCM AC	7.44Y	124.0	0.03	1.03	121.15	23	2627	641	97	0.41	0.0	1.104	0.033	16	3	2	606
OH4	PL.4888	ABC	336 MCM AC	7.43Y	123.9	0.10	1.13	120.42	23	2611	637	97	1.41	0.1	1.219	0.115	0	0	0	604
OH6	OH4	ABC	336 MCM AC	7.43Y	123.8	0.03	1.16	119.74	23	2594	630	97	0.43	0.0	1.255	0.035	1	0	1	599
PL.5362	OH6	ABC	336 MCM AC	7.43Y	123.8	0.07	1.23	119.12	23	2580	626	97	1.00	0.0	1.339	0.084	15	3	3	594
PL.5360	PL.5362	ABC	336 MCM AC	7.42Y	123.7	0.06	1.29	118.44	23	2564	621	97	0.81	0.0	1.408	0.069	14	3	3	591
OHDC7	PL.5360	ABC	336 MCM AC	7.42Y	123.6	0.09	1.38	117.79	23	2550	616	97	1.23	0.0	1.513	0.105	0	0	0	588
OHDC8	OHDC7	ABC	336 MCM AC	7.41Y	123.5	0.12	1.50	117.79	23	2548	613	97	1.71	0.1	1.659	0.146	0	0	0	588
OHDC9	OHDC8	ABC	336 MCM AC	7.41Y	123.5	0.04	1.55	117.79	23	2547	609	97	0.62	0.0	1.712	0.053	0	0	0	588
PL.5371	OHDC9	ABC	#4/0 ACSR	7.40Y	123.4	0.05	1.60	117.79	35	2546	608	97	0.82	0.0	1.757	0.044	0	0	0	588
PL.6243	PL.5371	ABC	#4/0 ACSR	7.40Y	123.3	0.08	1.68	115.09	34	2486	594	97	1.24	0.0	1.827	0.071	15	3	3	578
PL.6244	PL.6243	ABC	#4/0 ACSR	7.40Y	123.3	0.06	1.74	114.39	34	2470	588	97	0.92	0.0	1.880	0.053	1	0	1	575
PL.6245	PL.6244	ABC	#4/0 ACSR	7.39Y	123.2	0.08	1.82	114.33	34	2468	587	97	1.18	0.0	1.947	0.068	11	2	3	574
PL.6240	PL.6245	ABC	#4/0 ACSR	7.39Y	123.1	0.04	1.87	113.83	33	2456	582	97	0.65	0.0	1.985	0.038	0	0	0	571
PL.5766	PL.6240	ABC	#4/0 ACSR	7.38Y	123.1	0.06	1.92	113.58	33	2450	580	97	0.85	0.0	2.035	0.050	0	0	0	570
PL.6599	PL.5766	C	6 A (CWC)	7.38Y	123.1	0.00	1.92	4.25	3	31	6	98	0.00	0.0	2.039	0.005	0	0	0	7
PD.1330	PL.6599	C	65T	7.38Y	123.1	0.00	1.92	4.25	0	31	6	98	0.00	0.0	2.039	0.005	0	0	0	7
PL.6600	PD.1330	C	6 A (CWC)	7.38Y	123.1	0.01	1.93	4.25	3	31	6	98	0.00	0.0	2.086	0.046	6	1	3	7
PL.5474	PL.6600	C	6 A (CWC)	7.38Y	123.1	0.00	1.93	3.41	2	25	5	98	0.00	0.0	2.098	0.013	0	0	0	4
PL.6241	PL.5474	C	6 A (CWC)	7.38Y	123.1	0.00	1.94	2.66	2	19	4	98	0.00	0.0	2.139	0.040	8	2	1	3
PL.6242	PL.6241	C	6 A (CWC)	7.38Y	123.1	0.00	1.94	1.53	1	11	2	98	0.00	0.0	2.157	0.019	11	2	2	2
PL.5475	PL.5474	C	6 A (CWC)	7.38Y	123.1	0.00	1.94	0.75	1	5	1	98	0.00	0.0	2.154	0.056	5	1	1	1
PL.5767	PL.5766	ABC	#4/0 ACSR	7.38Y	123.0	0.06	1.98	112.16	33	2418	572	97	0.88	0.0	2.087	0.053	4	1	1	563

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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6021	PL.5767	ABC	#4/0 ACSR	7.38Y	123.0	0.02	2.00	111.88	33	2411	569	97	0.24	0.0	2.102	0.015	19	4	1	561
PL.6430	PL.6021	ABC	#1/0 ACSR	7.38Y	123.0	0.03	2.03	16.95	7	367	78	98	0.08	0.0	2.203	0.101	1	0	1	96
PL.6431	PL.6430	ABC	#1/0 ACSR	7.38Y	123.0	0.01	2.04	16.89	7	366	78	98	0.02	0.0	2.230	0.027	0	0	1	95
PL.6832	PL.6431	ABC	#1/0 ACSR	7.38Y	123.0	0.01	2.05	16.89	7	366	78	98	0.03	0.0	2.268	0.037	0	0	0	94
PL.7203	PL.6832	ABC	#1/0 ACSR	7.38Y	122.9	0.00	2.05	16.89	7	366	78	98	0.00	0.0	2.269	0.002	0	0	0	94
PD.1546	PL.7203	ABC	50L	7.38Y	122.9	0.00	2.05	16.89	34	366	78	98	0.00	0.0	2.269	0.002	0	0	0	94
PL.7204	PD.1546	ABC	#1/0 ACSR	7.38Y	122.9	0.01	2.06	16.89	7	366	78	98	0.03	0.0	2.315	0.045	4	1	1	94
PL.6428	PL.7204	ABC	#1/0 ACSR	7.37Y	122.9	0.03	2.09	16.31	7	353	75	98	0.07	0.0	2.418	0.103	9	2	1	90
PL.6429	PL.6428	ABC	#1/0 ACSR	7.37Y	122.9	0.01	2.10	15.91	7	344	73	98	0.03	0.0	2.457	0.039	10	2	2	89
PL.6427	PL.6429	ABC	#1/0 ACSR	7.37Y	122.9	0.01	2.12	15.44	7	334	71	98	0.03	0.0	2.506	0.049	0	0	1	87
PL.6426	PL.6427	ABC	#1/0 ACSR	7.37Y	122.8	0.04	2.16	15.44	7	334	71	98	0.10	0.0	2.663	0.158	6	1	2	86
PL.6425	PL.6426	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.17	15.18	7	328	70	98	0.03	0.0	2.719	0.056	1	0	1	84
PL.6424	PL.6425	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.19	15.15	7	328	70	98	0.04	0.0	2.790	0.071	0	0	0	83
PL.6038	PL.6424	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.21	14.66	6	317	67	98	0.05	0.0	2.881	0.091	9	2	1	82
PL.6703	PL.6038	B	#2 ACSR	7.37Y	122.8	0.00	2.21	0.87	0	6	1	99	0.00	0.0	2.886	0.005	0	0	0	1
PD.1385	PL.6703	B	20T	7.37Y	122.8	0.00	2.21	0.87	0	6	1	99	0.00	0.0	2.886	0.005	0	0	0	1
PL.6704	PD.1385	B	#2 ACSR	7.37Y	122.8	0.00	2.22	0.87	0	6	1	99	0.00	0.0	2.910	0.024	6	1	1	1
PL.6039	PL.6038	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.23	13.96	6	302	64	98	0.04	0.0	2.955	0.074	0	0	0	80
PL.6421	PL.6039	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.25	12.78	6	276	59	98	0.03	0.0	3.035	0.079	1	0	1	75
PL.6422	PL.6421	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.26	12.75	6	276	58	98	0.02	0.0	3.076	0.041	11	2	2	74
PL.6420	PL.6422	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.27	12.26	5	265	56	98	0.03	0.0	3.147	0.071	17	4	2	72
PL.6051	PL.6420	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.29	10.91	5	236	50	98	0.02	0.0	3.211	0.064	10	2	2	66
PL.6417	PL.6051	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.29	9.71	4	210	44	98	0.01	0.0	3.236	0.025	8	2	1	61
PL.6418	PL.6417	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.30	9.34	4	202	43	98	0.01	0.0	3.286	0.051	7	1	2	60
PL.6416	PL.6418	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.30	9.03	4	195	41	98	0.01	0.0	3.320	0.034	1	0	1	58
PL.6415	PL.6416	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.31	8.97	4	194	41	98	0.01	0.0	3.382	0.062	2	0	1	57
PL.6414	PL.6415	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.32	8.89	4	192	41	98	0.02	0.0	3.455	0.073	0	0	1	56
PL.5516	PL.6414	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.34	8.53	4	184	39	98	0.02	0.0	3.544	0.089	11	2	7	54
PL.6070	PL.5516	ABC	#1/0 ACSR	7.36Y	122.6	0.02	2.35	7.11	3	154	33	98	0.02	0.0	3.689	0.145	8	2	6	45
PL.6695	PL.6070	C	6 A (CWC)	7.36Y	122.6	0.00	2.36	8.25	6	59	13	98	0.00	0.0	3.694	0.005	0	0	0	18
PD.1381	PL.6695	C	20T	7.36Y	122.6	0.00	2.36	8.25	0	59	13	98	0.00	0.0	3.694	0.005	0	0	0	18

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6696	PD.1381	C	6 A (CWC)	7.36Y	122.6	0.04	2.40	8.25	6	59	13	98	0.02	0.0	3.810	0.116	8	2	2	18
PL.6083	PL.6696	C	#2 ACSR	7.36Y	122.6	0.01	2.41	7.14	4	51	11	98	0.00	0.0	3.852	0.043	2	0	2	16
PL.6408	PL.6083	C	#4 ACSR	7.35Y	122.6	0.01	2.42	5.40	4	39	8	98	0.00	0.0	3.904	0.052	1	0	1	10
PL.6409	PL.6408	C	#4 ACSR	7.35Y	122.6	0.01	2.42	5.25	4	38	8	98	0.00	0.0	3.933	0.028	7	1	1	9
PL.6407	PL.6409	C	#4 ACSR	7.35Y	122.6	0.01	2.43	4.29	3	31	7	98	0.00	0.0	3.971	0.038	0	0	0	8
PL.5770	PL.6407	C	#4 ACSR	7.35Y	122.6	0.00	2.43	3.17	2	23	5	98	0.00	0.0	3.997	0.025	13	3	3	5
PL.5486	PL.5770	C	6 A (CWC)	7.35Y	122.6	0.00	2.44	1.41	1	10	2	98	0.00	0.0	4.073	0.076	0	0	1	2
PL.5488	PL.5486	C	#2 ACSR	7.35Y	122.6	0.00	2.44	1.41	1	10	2	98	0.00	0.0	4.124	0.052	10	2	1	1
PL.6405	PL.6407	C	#4 ACSR	7.35Y	122.6	0.00	2.43	1.12	1	8	2	97	0.00	0.0	3.998	0.027	1	0	2	3
PL.6406	PL.6405	C	#4 ACSR	7.35Y	122.6	0.00	2.43	1.02	1	7	2	96	0.00	0.0	4.025	0.027	0	0	0	1
PL.5487	PL.6406	C	6 A (CWC)	7.35Y	122.6	0.00	2.43	1.02	1	7	2	96	0.00	0.0	4.051	0.026	7	2	1	1
PL.6403	PL.6083	C	#2 ACSR	7.36Y	122.6	0.00	2.41	1.46	1	11	2	98	0.00	0.0	3.914	0.061	6	1	2	4
PL.6404	PL.6403	C	#2 ACSR	7.36Y	122.6	0.00	2.41	0.65	0	5	1	98	0.00	0.0	3.994	0.080	5	1	2	2
PL.6402	PL.6404	C	#2 ACSR	7.36Y	122.6	0.00	2.41	0.00	0	0	0	100	0.00	0.0	4.018	0.024	0	0	0	0
PL.6769	PL.6070	A	6 A (CWC)	7.36Y	122.6	0.00	2.36	12.01	9	86	18	98	0.00	0.0	3.694	0.005	0	0	0	21
PD.1422	PL.6769	A	20T	7.36Y	122.6	0.00	2.36	12.01	0	86	18	98	0.00	0.0	3.694	0.005	0	0	0	21
PL.6770	PD.1422	A	6 A (CWC)	7.36Y	122.6	0.02	2.38	12.01	9	86	18	98	0.01	0.0	3.735	0.041	7	1	1	21
PL.6412	PL.6770	A	#4 ACSR	7.36Y	122.6	0.01	2.39	2.50	2	18	4	98	0.00	0.0	3.812	0.078	4	1	1	2
PL.6413	PL.6412	A	#4 ACSR	7.36Y	122.6	0.00	2.39	1.97	2	14	3	98	0.00	0.0	3.919	0.107	14	3	1	1
PL.5508	PL.6770	A	6 A (CWC)	7.36Y	122.6	0.03	2.41	8.53	6	61	13	98	0.02	0.0	3.828	0.093	6	1	2	18
PL.5492	PL.5508	A	#4 ACSR	7.36Y	122.6	0.00	2.41	0.00	0	0	0	100	0.00	0.0	3.870	0.042	0	0	0	0
PL.5484	PL.5508	A	6 A (CWC)	7.36Y	122.6	0.00	2.41	0.55	0	4	1	97	0.00	0.0	3.885	0.057	4	1	1	1
PL.5509	PL.5508	A	6 A (CWC)	7.35Y	122.6	0.03	2.44	7.13	5	51	11	98	0.01	0.0	3.924	0.096	6	1	2	15
PL.5482	PL.5509	A	#1/0 ACSR	7.35Y	122.6	0.00	2.44	2.44	1	18	4	98	0.00	0.0	3.949	0.025	18	4	5	5
PL.5485	PL.5509	A	6 A (CWC)	7.35Y	122.6	0.01	2.45	1.39	1	10	2	98	0.00	0.0	4.050	0.127	3	1	1	6
PL.5494	PL.5485	A	#4 ACSR	7.35Y	122.5	0.01	2.45	0.99	1	7	2	96	0.00	0.0	4.207	0.156	0	0	0	5
PL.5483	PL.5494	A	6 A (CWC)	7.35Y	122.5	0.00	2.45	0.00	0	0	0	100	0.00	0.0	4.274	0.067	0	0	0	0
PL.5769	PL.5494	A	#4 ACSR	7.35Y	122.5	0.00	2.46	0.99	1	7	2	96	0.00	0.0	4.268	0.062	7	2	5	5
PL.5493	PL.5509	A	#4 ACSR	7.35Y	122.6	0.00	2.44	2.42	2	17	4	97	0.00	0.0	3.970	0.047	9	2	1	2
PL.6410	PL.5493	A	6 A (CWC)	7.35Y	122.6	0.00	2.45	1.17	1	8	2	97	0.00	0.0	4.000	0.029	8	2	1	1
PL.6411	PL.6410	A	6 A (CWC)	7.35Y	122.6	0.00	2.45	0.00	0	0	0	100	0.00	0.0	4.038	0.038	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6697	PL.5516	C	#2 ACSR	7.36Y	122.7	0.00	2.34	2.75	2	20	4	98	0.00	0.0	3.549	0.005	0	0	0	2
PD.1382	PL.6697	C	20T	7.36Y	122.7	0.00	2.34	2.75	0	20	4	98	0.00	0.0	3.549	0.005	0	0	0	2
PL.6698	PD.1382	C	#2 ACSR	7.36Y	122.7	0.00	2.34	2.75	2	20	4	98	0.00	0.0	3.589	0.040	0	0	0	2
PL.5768	PL.6698	C	#2 ACSR	7.36Y	122.7	0.00	2.34	0.61	0	4	1	97	0.00	0.0	3.625	0.036	4	1	1	1
PL.5481	PL.6698	C	#1/0 ACSR	7.36Y	122.7	0.00	2.34	2.14	1	15	3	98	0.00	0.0	3.649	0.060	15	3	1	1
PL.6699	PL.6414	A	#4 ACSR	7.36Y	122.7	0.00	2.32	1.08	1	8	2	97	0.00	0.0	3.460	0.005	0	0	0	1
PD.1383	PL.6699	A	20T	7.36Y	122.7	0.00	2.32	1.08	0	8	2	97	0.00	0.0	3.460	0.005	0	0	0	1
PL.6700	PD.1383	A	#4 ACSR	7.36Y	122.7	0.00	2.33	1.08	1	8	2	97	0.00	0.0	3.529	0.069	8	2	1	1
PL.6767	PL.6051	A	#4 ACSR	7.36Y	122.7	0.00	2.29	2.20	2	16	3	98	0.00	0.0	3.216	0.005	0	0	0	3
PD.1421	PL.6767	A	20T	7.36Y	122.7	0.00	2.29	2.20	0	16	3	98	0.00	0.0	3.216	0.005	0	0	0	3
PL.6768	PD.1421	A	#4 ACSR	7.36Y	122.7	0.00	2.29	2.20	2	16	3	98	0.00	0.0	3.279	0.063	6	1	1	3
PL.6054	PL.6768	A	#4 ACSR	7.36Y	122.7	0.00	2.29	0.56	0	4	1	97	0.00	0.0	3.328	0.049	4	1	1	1
PL.5478	PL.6768	A	#4 ACSR	7.36Y	122.7	0.00	2.29	0.84	1	6	1	99	0.00	0.0	3.320	0.041	6	1	1	1
PL.6765	PL.6420	C	#4 ACSR	7.36Y	122.7	0.00	2.27	1.74	1	13	3	97	0.00	0.0	3.152	0.005	0	0	0	4
PD.1420	PL.6765	C	20T	7.36Y	122.7	0.00	2.27	1.74	0	13	3	97	0.00	0.0	3.152	0.005	0	0	0	4
PL.6766	PD.1420	C	#4 ACSR	7.36Y	122.7	0.01	2.28	1.74	1	13	3	97	0.00	0.0	3.272	0.120	6	1	2	4
PL.6419	PL.6766	C	#4 ACSR	7.36Y	122.7	0.00	2.28	0.94	1	7	1	99	0.00	0.0	3.305	0.033	7	1	2	2
PL.6763	PL.6039	A	6 A (CWC)	7.37Y	122.8	0.00	2.23	1.60	1	12	2	99	0.00	0.0	2.960	0.005	0	0	0	3
PD.1419	PL.6763	A	20T	7.37Y	122.8	0.00	2.23	1.60	0	12	2	99	0.00	0.0	2.960	0.005	0	0	0	3
PL.6764	PD.1419	A	6 A (CWC)	7.37Y	122.8	0.00	2.24	1.60	1	12	2	99	0.00	0.0	3.054	0.094	12	2	2	3
PL.6423	PL.6764	A	6 A (CWC)	7.37Y	122.8	0.00	2.24	0.00	0	0	0	100	0.00	0.0	3.086	0.032	0	0	0	1
PL.5477	PL.6423	A	#4 ACSR	7.37Y	122.8	0.00	2.24	0.00	0	0	0	100	0.00	0.0	3.141	0.055	0	0	1	1
PL.6701	PL.6039	C	6 A (CWC)	7.37Y	122.8	0.00	2.23	1.94	1	14	3	98	0.00	0.0	2.960	0.005	0	0	0	2
PD.1384	PL.6701	C	20T	7.37Y	122.8	0.00	2.23	1.94	0	14	3	98	0.00	0.0	2.960	0.005	0	0	0	2
PL.6702	PD.1384	C	6 A (CWC)	7.37Y	122.8	0.00	2.23	1.94	1	14	3	98	0.00	0.0	2.984	0.024	14	3	2	2
PL.6705	PL.6424	C	#2 ACSR	7.37Y	122.8	0.00	2.19	1.48	1	11	2	98	0.00	0.0	2.795	0.005	0	0	0	1
PD.1386	PL.6705	C	20T	7.37Y	122.8	0.00	2.19	1.48	0	11	2	98	0.00	0.0	2.795	0.005	0	0	0	1
PL.6706	PD.1386	C	#2 ACSR	7.37Y	122.8	0.00	2.19	1.48	1	11	2	98	0.00	0.0	2.831	0.036	11	2	1	1
PL.6707	PL.7204	A	#4 ACSR	7.38Y	122.9	0.00	2.06	1.22	1	9	2	98	0.00	0.0	2.319	0.005	0	0	0	3
PD.1387	PL.6707	A	20T	7.38Y	122.9	0.00	2.06	1.22	0	9	2	98	0.00	0.0	2.319	0.005	0	0	0	3
PL.6708	PD.1387	A	#4 ACSR	7.38Y	122.9	0.00	2.07	1.22	1	9	2	98	0.00	0.0	2.371	0.052	9	2	3	3

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5476	PL.6021	ABC	6 A (CWC)	7.38Y	123.0	0.00	2.00	0.80	1	17	4	97	0.00	0.0	2.156	0.054	17	4	5	5
PL.6022	PL.6021	ABC	#4/0 ACSR	7.38Y	123.0	0.02	2.02	93.28	27	2008	483	97	0.27	0.0	2.125	0.023	7	2	1	459
PL.6237	PL.6022	ABC	#4/0 ACSR	7.37Y	122.9	0.07	2.10	92.94	27	2000	481	97	0.89	0.0	2.202	0.077	10	2	2	458
PL.6238	PL.6237	ABC	#4/0 ACSR	7.37Y	122.8	0.10	2.20	92.50	27	1990	477	97	1.24	0.1	2.311	0.108	0	0	0	456
PL.6235	PL.6238	ABC	#4/0 ACSR	7.36Y	122.7	0.09	2.29	92.19	27	1982	473	97	1.06	0.1	2.404	0.093	1	0	1	454
PL.6236	PL.6235	ABC	#4/0 ACSR	7.36Y	122.6	0.10	2.39	92.13	27	1980	471	97	1.20	0.1	2.510	0.106	17	4	3	453
PL.7206	PL.6236	A	#2 ACSR	7.36Y	122.6	0.00	2.39	0.00	0	0	0	100	0.00	0.0	2.515	0.005	0	0	0	0
PL.6591	PL.6236	C	#4 ACSR	7.36Y	122.6	0.00	2.39	1.59	1	11	2	98	0.00	0.0	2.515	0.005	0	0	0	2
PD.1326	PL.6591	C	65T	7.36Y	122.6	0.00	2.39	1.59	0	11	2	98	0.00	0.0	2.515	0.005	0	0	0	2
PL.6592	PD.1326	C	#4 ACSR	7.36Y	122.6	0.00	2.39	1.59	1	11	2	98	0.00	0.0	2.543	0.028	11	2	2	2
PL.6028	PL.6236	ABC	#4/0 ACSR	7.35Y	122.6	0.05	2.43	90.80	27	1950	463	97	0.58	0.0	2.563	0.052	0	0	0	448
PL.6593	PL.6028	C	#2 ACSR	7.35Y	122.6	0.00	2.44	2.74	2	20	4	98	0.00	0.0	2.567	0.004	0	0	0	4
PD.1327	PL.6593	C	65T	7.35Y	122.6	0.00	2.44	2.74	0	20	4	98	0.00	0.0	2.567	0.004	0	0	0	4
PL.6594	PD.1327	C	#2 ACSR	7.35Y	122.6	0.00	2.44	2.74	2	20	4	98	0.00	0.0	2.593	0.026	9	2	2	4
PL.6218	PL.6594	C	#2 ACSR	7.35Y	122.6	0.00	2.44	1.51	1	11	2	98	0.00	0.0	2.626	0.033	11	2	2	2
PL.5771	PL.6028	ABC	#4/0 ACSR	7.35Y	122.5	0.09	2.53	89.88	26	1929	458	97	1.09	0.1	2.664	0.101	0	0	0	444
PL.6771	PL.5771	A	6 A (CWC)	7.35Y	122.5	0.00	2.53	1.61	1	12	2	99	0.00	0.0	2.669	0.005	0	0	0	2
PD.1423	PL.6771	A	65T	7.35Y	122.5	0.00	2.53	1.61	0	12	2	99	0.00	0.0	2.669	0.005	0	0	0	2
PL.6772	PD.1423	A	6 A (CWC)	7.35Y	122.5	0.00	2.53	1.61	1	12	2	99	0.00	0.0	2.717	0.048	12	2	2	2
PL.6589	PL.5771	C	6 A (CWC)	7.35Y	122.5	0.00	2.53	0.58	0	4	1	97	0.00	0.0	2.669	0.005	0	0	0	1
PD.1325	PL.6589	C	65T	7.35Y	122.5	0.00	2.53	0.58	0	4	1	97	0.00	0.0	2.669	0.005	0	0	0	1
PL.6590	PD.1325	C	6 A (CWC)	7.35Y	122.5	0.00	2.53	0.58	0	4	1	97	0.00	0.0	2.692	0.023	4	1	1	1
PL.6032	PL.5771	ABC	#4/0 ACSR	7.34Y	122.4	0.07	2.60	89.15	26	1913	453	97	0.79	0.0	2.739	0.074	3	1	1	441
PL.6587	PL.6032	C	#4 ACSR	7.34Y	122.4	0.00	2.60	3.01	2	22	5	98	0.00	0.0	2.743	0.005	0	0	0	4
PD.1324	PL.6587	C	65T	7.34Y	122.4	0.00	2.60	3.01	0	22	5	98	0.00	0.0	2.743	0.005	0	0	0	4
PL.6588	PD.1324	C	#4 ACSR	7.34Y	122.4	0.00	2.60	3.01	2	22	5	98	0.00	0.0	2.772	0.028	22	5	4	4
PL.6033	PL.6032	ABC	#4/0 ACSR	7.34Y	122.4	0.00	2.60	88.01	26	1887	446	97	0.03	0.0	2.741	0.003	0	0	0	436
PL.5489	PL.6033	ABC	#4/0 ACSR	7.34Y	122.3	0.08	2.68	88.01	26	1887	446	97	0.94	0.0	2.832	0.090	0	0	0	436
PL.6585	PL.5489	A	#4 ACSR	7.34Y	122.3	0.00	2.68	0.07	0	1	0	100	0.00	0.0	2.836	0.005	0	0	0	1
PD.1323	PL.6585	A	65T	7.34Y	122.3	0.00	2.68	0.07	0	1	0	100	0.00	0.0	2.836	0.005	0	0	0	1
PL.6586	PD.1323	A	#4 ACSR	7.34Y	122.3	0.00	2.68	0.07	0	1	0	100	0.00	0.0	2.877	0.041	1	0	1	1

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6217	PL.6586	A	#4 ACSR	7.34Y	122.3	0.00	2.68	0.00	0	0	0	100	0.00	0.0	2.940	0.063	0	0	0	0
PL.5772	PL.5489	ABC	#4/0 ACSR	7.33Y	122.2	0.08	2.76	87.99	26	1886	444	97	0.91	0.0	2.920	0.088	7	1	1	435
PL.5497	PL.5772	A	6 A (CWC)	7.33Y	122.2	0.00	2.76	23.68	17	170	36	98	0.00	0.0	2.923	0.003	0	0	0	38
PD.1452	PL.5497	A	50L	7.33Y	122.2	0.00	2.76	23.68	47	170	36	98	0.00	0.0	2.923	0.003	0	0	0	38
PL.6034	PD.1452	A	6 A (CWC)	7.33Y	122.2	0.00	2.76	0.04	0	0	0	100	0.00	0.0	2.927	0.004	0	0	0	1
PL.5491	PL.6034	A	6 A (CWC)	7.33Y	122.2	0.00	2.76	0.04	0	0	0	100	0.00	0.0	3.012	0.085	0	0	1	1
PL.6192	PD.1452	A	6 A (CWC)	7.33Y	122.2	0.09	2.85	23.64	17	170	36	98	0.11	0.1	3.008	0.085	11	2	2	37
PL.6193	PL.6192	A	6 A (CWC)	7.33Y	122.1	0.05	2.90	22.13	16	159	34	98	0.06	0.0	3.058	0.051	0	0	0	35
PL.6188	PL.6193	A	6 A (CWC)	7.32Y	122.0	0.06	2.96	22.13	16	159	34	98	0.07	0.0	3.118	0.059	7	1	2	35
PL.5499	PL.6188	A	#2 ACSR	7.32Y	122.0	0.00	2.96	0.50	0	4	1	97	0.00	0.0	3.177	0.059	4	1	1	1
PL.6189	PL.6188	A	6 A (CWC)	7.32Y	122.0	0.02	2.97	10.24	7	73	16	98	0.01	0.0	3.153	0.036	4	1	1	18
PL.6190	PL.6189	A	6 A (CWC)	7.32Y	122.0	0.02	2.99	9.74	7	70	15	98	0.01	0.0	3.204	0.050	3	1	1	17
PL.6191	PL.6190	A	6 A (CWC)	7.32Y	122.0	0.01	3.01	9.36	7	67	14	98	0.01	0.0	3.232	0.029	0	0	0	16
PL.6179	PL.6191	A	6 A (CWC)	7.32Y	122.0	0.01	3.02	7.64	5	55	12	98	0.01	0.0	3.278	0.046	10	2	2	10
PL.6180	PL.6179	A	6 A (CWC)	7.32Y	122.0	0.02	3.04	6.19	4	44	9	98	0.01	0.0	3.368	0.090	0	0	1	8
PL.6181	PL.6180	A	6 A (CWC)	7.32Y	121.9	0.02	3.06	6.15	4	44	9	98	0.01	0.0	3.444	0.076	13	3	2	7
PL.6182	PL.6181	A	#1/0 ACSR	7.32Y	121.9	0.00	3.06	2.86	1	20	4	98	0.00	0.0	3.485	0.041	11	2	2	3
PL.6183	PL.6182	A	#1/0 ACSR	7.32Y	121.9	0.00	3.06	1.35	1	10	2	98	0.00	0.0	3.522	0.037	10	2	1	1
PL.6050	PL.6181	A	6 A (CWC)	7.32Y	121.9	0.00	3.06	1.53	1	11	2	98	0.00	0.0	3.511	0.068	11	2	2	2
PL.5501	PL.6191	A	6 A (CWC)	7.32Y	122.0	0.00	3.01	1.72	1	12	3	97	0.00	0.0	3.322	0.089	12	3	4	6
PL.5502	PL.5501	A	#4 ACSR	7.32Y	122.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	3.359	0.037	0	0	2	2
PL.6186	PL.6188	A	6 A (CWC)	7.32Y	122.0	0.05	3.01	10.44	7	75	16	98	0.03	0.0	3.230	0.113	0	0	0	14
PL.6187	PL.6186	A	6 A (CWC)	7.32Y	122.0	0.02	3.03	10.44	7	75	16	98	0.01	0.0	3.274	0.044	0	0	0	14
PL.5500	PL.6187	A	#2 ACSR	7.32Y	122.0	0.00	3.03	0.61	0	4	1	97	0.00	0.0	3.311	0.036	4	1	1	1
PL.6184	PL.6187	A	6 A (CWC)	7.31Y	121.9	0.06	3.09	9.84	7	70	15	98	0.03	0.0	3.420	0.146	7	1	2	13
PL.6185	PL.6184	A	6 A (CWC)	7.31Y	121.9	0.03	3.12	8.89	6	64	13	98	0.01	0.0	3.490	0.070	7	1	2	11
PL.6176	PL.6185	A	6 A (CWC)	7.31Y	121.8	0.05	3.16	7.97	6	57	12	98	0.02	0.0	3.622	0.131	0	0	0	9
PL.6177	PL.6176	A	6 A (CWC)	7.31Y	121.8	0.02	3.19	7.97	6	57	12	98	0.01	0.0	3.691	0.069	11	2	1	9
PL.6178	PL.6177	A	6 A (CWC)	7.31Y	121.8	0.02	3.20	6.47	5	46	10	98	0.01	0.0	3.745	0.054	0	0	0	8
PL.5503	PL.6178	A	#4 ACSR	7.31Y	121.8	0.00	3.20	0.13	0	1	0	100	0.00	0.0	3.852	0.107	0	0	0	1
PL.5844	PL.5503	A	#4 ACSR	7.31Y	121.8	0.00	3.20	0.13	0	1	0	100	0.00	0.0	3.970	0.118	1	0	1	1

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PL.5773	PL.6178	A	6 A (CWC)	7.31Y	121.8	0.03	3.23	6.34	5	45	10	98	0.01	0.0	3.844	0.099	0	0	0	7
PL.5845	PL.5773	A	6 A (CWC)	7.30Y	121.7	0.03	3.26	6.34	5	45	10	98	0.01	0.0	3.946	0.102	0	0	0	7
PL.6027	PL.5845	A	6 A (CWC)	7.30Y	121.7	0.02	3.28	6.34	5	45	10	98	0.01	0.0	4.018	0.072	0	0	0	7
PL.6029	PL.6027	A	6 A (CWC)	7.30Y	121.7	0.01	3.29	5.60	4	40	8	98	0.00	0.0	4.078	0.060	3	1	1	6
PL.6164	PL.6029	A	6 A (CWC)	7.30Y	121.7	0.01	3.31	4.24	3	30	6	98	0.00	0.0	4.152	0.073	9	2	1	3
PL.6165	PL.6164	A	6 A (CWC)	7.30Y	121.7	0.01	3.31	3.03	2	22	5	98	0.00	0.0	4.211	0.059	0	0	0	2
PL.5273	PL.6165	A	#1/0 ACSR	7.30Y	121.7	0.00	3.32	1.67	1	12	3	97	0.00	0.0	4.276	0.065	12	3	1	1
PL.6030	PL.6165	A	6 A (CWC)	7.30Y	121.7	0.00	3.31	1.36	1	10	2	98	0.00	0.0	4.240	0.029	10	2	1	1
PL.5272	PL.6029	A	#2 ACSR	7.30Y	121.7	0.00	3.29	0.96	1	7	1	99	0.00	0.0	4.128	0.049	7	1	2	2
PL.5270	PL.6027	A	#4 ACSR	7.30Y	121.7	0.00	3.28	0.74	1	5	1	98	0.00	0.0	4.043	0.025	5	1	1	1
PL.5271	PL.5845	A	#4 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	3.982	0.036	0	0	0	0
PL.5498	PL.5772	ABC	#4/0 ACSR	7.32Y	122.0	0.28	3.04	79.77	23	1708	405	97	2.94	0.2	3.266	0.346	0	0	0	396
PL.6575	PL.5498	A	#4 ACSR	7.32Y	122.0	0.00	3.04	1.07	1	8	2	97	0.00	0.0	3.271	0.005	0	0	0	1
PD.1318	PL.6575	A	65T	7.32Y	122.0	0.00	3.04	1.07	0	8	2	97	0.00	0.0	3.271	0.005	0	0	0	1
PL.6576	PD.1318	A	#4 ACSR	7.32Y	122.0	0.00	3.04	1.07	1	8	2	97	0.00	0.0	3.329	0.058	8	2	1	1
PL.5774	PL.5498	ABC	#4/0 ACSR	7.31Y	121.9	0.08	3.12	79.42	23	1697	398	97	0.80	0.0	3.362	0.095	0	0	0	395
PL.6577	PL.5774	C	#4 ACSR	7.31Y	121.9	0.00	3.12	1.21	1	9	2	98	0.00	0.0	3.366	0.005	0	0	0	2
PD.1319	PL.6577	C	65T	7.31Y	121.9	0.00	3.12	1.21	0	9	2	98	0.00	0.0	3.366	0.005	0	0	0	2
PL.6578	PD.1319	C	#4 ACSR	7.31Y	121.9	0.00	3.12	1.21	1	9	2	98	0.00	0.0	3.423	0.057	9	2	2	2
PL.5775	PL.5774	ABC	#4/0 ACSR	7.30Y	121.7	0.15	3.26	79.02	23	1688	395	97	1.54	0.1	3.547	0.185	0	0	1	393
PL.6201	PL.5775	ABC	#4/0 ACSR	7.30Y	121.7	0.08	3.35	79.01	23	1686	392	97	0.84	0.0	3.647	0.101	0	0	0	392
PL.5274	PL.6201	ABC	#4/0 ACSR	7.30Y	121.6	0.06	3.41	70.36	21	1500	352	97	0.58	0.0	3.736	0.089	6	1	2	353
PL.6811	PL.5274	A	#4 ACSR	7.30Y	121.6	0.01	3.42	55.84	43	398	87	98	0.02	0.0	3.739	0.003	0	0	0	63
PD.1445	PL.6811	A	100L	7.30Y	121.6	0.00	3.42	55.84	56	398	87	98	0.00	0.0	3.739	0.003	0	0	0	63
PL.6812	PD.1445	A	#4 ACSR	7.26Y	121.1	0.50	3.92	55.84	43	398	87	98	1.53	0.4	3.943	0.205	0	0	0	63
PL.5275	PL.6812	A	#1/0 ACSR	7.26Y	121.1	0.00	3.92	1.59	1	11	2	98	0.00	0.0	3.971	0.027	11	2	1	1
PL.6202	PL.6812	A	6 A (CWC)	7.26Y	121.1	0.01	3.92	1.19	1	8	2	97	0.00	0.0	4.040	0.096	0	0	0	2
PL.6203	PL.6202	A	6 A (CWC)	7.26Y	121.1	0.00	3.92	1.19	1	8	2	97	0.00	0.0	4.088	0.048	8	2	2	2
PL.5276	PL.6812	A	#4 ACSR	7.19Y	119.9	1.23	5.15	53.07	41	377	82	98	3.56	0.9	4.472	0.528	0	0	0	60
PL.5278	PL.5276	A	6 A (CWC)	7.19Y	119.8	0.01	5.15	1.25	1	9	2	98	0.00	0.0	4.583	0.111	0	0	0	2
PL.5280	PL.5278	A	6 A (CWC)	7.19Y	119.8	0.00	5.15	0.56	0	4	1	97	0.00	0.0	4.671	0.089	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5281	PL.5280	A	#1/0 ACSR	7.19Y	119.8	0.00	5.16	0.56	0	4	1	97	0.00	0.0	4.708	0.037	4	1	1	1
PL.6094	PL.5278	A	6 A (CWC)	7.19Y	119.8	0.00	5.15	0.69	0	5	1	98	0.00	0.0	4.656	0.073	5	1	1	1
PL.6095	PL.5276	A	#4 ACSR	7.17Y	119.5	0.32	5.47	51.82	40	364	78	98	0.90	0.2	4.613	0.142	4	1	3	58
PL.5277	PL.6095	A	6 A (CWC)	7.17Y	119.5	0.00	5.47	0.00	0	0	0	100	0.00	0.0	4.749	0.136	0	0	0	0
PL.6096	PL.6095	A	#4 ACSR	7.16Y	119.3	0.20	5.67	51.27	39	360	77	98	0.57	0.2	4.705	0.091	0	0	0	55
PL.5279	PL.6096	A	#4 ACSR	7.16Y	119.3	0.00	5.67	3.66	3	26	5	98	0.00	0.0	4.715	0.010	0	0	0	2
PL.6573	PL.5279	A	1/0 AL URD	7.16Y	119.3	0.00	5.67	3.66	2	26	5	98	0.00	0.0	4.719	0.005	0	0	0	2
PD.1317	PL.6573	A	20T	7.16Y	119.3	0.00	5.67	3.66	0	26	5	98	0.00	0.0	4.719	0.005	0	0	0	2
PL.6574	PD.1317	A	1/0 AL URD	7.16Y	119.3	0.00	5.68	3.66	2	26	5	98	0.00	0.0	4.763	0.043	26	5	2	2
PL.6092	PL.6096	A	#4 ACSR	7.14Y	119.0	0.30	5.97	47.61	37	333	71	98	0.77	0.2	4.847	0.142	2	0	1	53
PL.6227	PL.6092	A	#1/0 ACSR	7.14Y	119.0	0.03	5.99	13.96	6	98	21	98	0.02	0.0	4.932	0.085	4	1	1	21
PL.6228	PL.6227	A	#1/0 ACSR	7.14Y	119.0	0.01	6.00	13.38	6	93	20	98	0.01	0.0	4.965	0.033	0	0	0	20
PL.5283	PL.6228	A	#4 ACSR	7.14Y	119.0	0.02	6.02	11.67	9	82	17	98	0.01	0.0	5.001	0.036	3	1	2	19
PL.5287	PL.5283	A	#1/0 ACSR	7.14Y	119.0	0.01	6.03	11.22	5	78	17	98	0.01	0.0	5.043	0.042	0	0	0	17
PL.6209	PL.5287	A	#2 ACSR	7.14Y	119.0	0.00	6.03	2.48	1	17	4	97	0.00	0.0	5.076	0.033	4	1	1	4
PL.6210	PL.6209	A	#2 ACSR	7.14Y	119.0	0.00	6.04	1.90	1	13	3	97	0.00	0.0	5.118	0.042	0	0	0	3
PL.5288	PL.6210	A	#2 ACSR	7.14Y	119.0	0.00	6.04	0.77	0	5	1	98	0.00	0.0	5.244	0.127	5	1	1	1
PL.6207	PL.6210	A	#1/0 ACSR	7.14Y	119.0	0.00	6.04	1.13	0	8	2	97	0.00	0.0	5.157	0.040	3	1	1	2
PL.6208	PL.6207	A	#1/0 ACSR	7.14Y	119.0	0.00	6.04	0.70	0	5	1	98	0.00	0.0	5.213	0.056	5	1	1	1
PL.5284	PL.5287	A	#4 ACSR	7.14Y	118.9	0.02	6.05	8.74	7	61	13	98	0.01	0.0	5.102	0.059	15	3	3	13
PL.5915	PL.5284	A	#4 ACSR	7.14Y	118.9	0.01	6.06	6.62	5	46	10	98	0.00	0.0	5.126	0.025	0	0	0	10
PL.5285	PL.5915	A	#2 ACSR	7.14Y	118.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	5.151	0.025	0	0	3	3
PL.6211	PL.5915	A	#1/0 ACSR	7.14Y	118.9	0.00	6.06	6.62	3	46	10	98	0.00	0.0	5.155	0.028	6	1	1	7
PL.6212	PL.6211	A	#1/0 ACSR	7.14Y	118.9	0.01	6.07	5.79	3	40	9	98	0.00	0.0	5.255	0.100	4	1	1	6
PL.5286	PL.6212	A	#2 ACSR	7.14Y	118.9	0.00	6.08	1.66	1	12	2	99	0.00	0.0	5.354	0.099	3	1	1	2
PL.5289	PL.5286	A	#2 ACSR	7.14Y	118.9	0.00	6.08	1.26	1	9	2	98	0.00	0.0	5.446	0.092	0	0	0	1
PL.5290	PL.5289	A	#1/0 ACSR	7.13Y	118.9	0.00	6.08	1.26	1	9	2	98	0.00	0.0	5.607	0.161	9	2	1	1
PL.6213	PL.6212	A	#1/0 ACSR	7.14Y	118.9	0.00	6.08	3.53	2	25	5	98	0.00	0.0	5.288	0.033	20	4	2	3
PL.6214	PL.6213	A	#1/0 ACSR	7.14Y	118.9	0.00	6.08	0.62	0	4	1	97	0.00	0.0	5.316	0.028	4	1	1	1
PL.5777	PL.6228	A	#1/0 ACSR	7.14Y	119.0	0.00	6.00	1.71	1	12	3	97	0.00	0.0	4.994	0.029	12	3	1	1
PL.6091	PL.6092	A	#4 ACSR	7.14Y	119.0	0.04	6.01	33.34	26	233	49	98	0.08	0.0	4.876	0.029	7	1	1	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6089	PL.6091	A	#4 ACSR	7.13Y	118.9	0.10	6.11	32.40	25	226	48	98	0.17	0.1	4.946	0.070	14	3	2	30
PL.6090	PL.6089	A	#4 ACSR	7.13Y	118.9	0.04	6.14	23.20	18	162	34	98	0.05	0.0	4.983	0.036	0	0	0	21
PL.5291	PL.6090	A	#1/0 ACSR	7.13Y	118.9	0.00	6.14	1.69	1	12	2	99	0.00	0.0	4.996	0.013	12	2	1	1
PL.6229	PL.6090	A	#4 ACSR	7.13Y	118.8	0.05	6.19	21.51	17	150	32	98	0.06	0.0	5.036	0.053	6	1	2	20
PL.6230	PL.6229	A	#4 ACSR	7.13Y	118.8	0.03	6.22	20.60	16	144	30	98	0.03	0.0	5.066	0.031	4	1	1	18
PL.5292	PL.6230	A	#4 ACSR	7.13Y	118.8	0.00	6.22	3.96	3	28	6	98	0.00	0.0	5.088	0.021	0	0	0	2
PL.6597	PL.5292	A	1/0 AL URD	7.13Y	118.8	0.00	6.22	2.54	1	18	4	98	0.00	0.0	5.092	0.005	0	0	0	1
PD.1329	PL.6597	A	20T	7.13Y	118.8	0.00	6.22	2.54	0	18	4	98	0.00	0.0	5.092	0.005	0	0	0	1
PL.6598	PD.1329	A	1/0 AL URD	7.13Y	118.8	0.00	6.22	2.54	1	18	4	98	0.00	0.0	5.119	0.027	18	4	1	1
PL.5300	PL.5292	A	#4 ACSR	7.13Y	118.8	0.00	6.22	1.42	1	10	2	98	0.00	0.0	5.134	0.047	10	2	1	1
PL.5293	PL.6230	A	#4 ACSR	7.13Y	118.8	0.03	6.25	16.01	12	112	24	98	0.03	0.0	5.108	0.042	0	0	0	15
PL.6087	PL.5293	A	#4 ACSR	7.12Y	118.7	0.02	6.27	13.78	11	96	20	98	0.02	0.0	5.150	0.042	13	3	1	14
PL.5294	PL.6087	A	#2 ACSR	7.12Y	118.7	0.00	6.27	1.25	1	9	2	98	0.00	0.0	5.223	0.073	9	2	1	1
PL.6088	PL.6087	A	#4 ACSR	7.12Y	118.7	0.03	6.30	10.61	8	74	16	98	0.02	0.0	5.220	0.070	8	2	1	12
PL.5295	PL.6088	A	#4 ACSR	7.12Y	118.7	0.02	6.32	9.43	7	66	14	98	0.01	0.0	5.264	0.043	0	0	0	11
PL.5296	PL.5295	A	#2 ACSR	7.12Y	118.7	0.00	6.32	0.52	0	4	1	97	0.00	0.0	5.301	0.037	4	1	2	2
PL.5297	PL.5295	A	#4 ACSR	7.12Y	118.7	0.01	6.33	8.91	7	62	13	98	0.01	0.0	5.297	0.033	0	0	0	9
PL.6084	PL.5297	A	#4 ACSR	7.12Y	118.7	0.01	6.35	6.69	5	47	10	98	0.01	0.0	5.345	0.048	0	0	0	7
PL.5298	PL.6084	A	#4 ACSR	7.12Y	118.7	0.00	6.35	2.08	2	14	3	98	0.00	0.0	5.367	0.022	14	3	1	1
PL.6233	PL.6084	A	#4 ACSR	7.12Y	118.6	0.01	6.35	4.61	4	32	7	98	0.00	0.0	5.378	0.033	7	1	2	6
PL.6234	PL.6233	A	#4 ACSR	7.12Y	118.6	0.01	6.36	3.63	3	25	5	98	0.00	0.0	5.419	0.040	0	0	0	4
PL.6221	PL.6234	A	#4 ACSR	7.12Y	118.6	0.00	6.36	1.13	1	8	2	97	0.00	0.0	5.439	0.020	8	2	2	2
PL.6222	PL.6221	A	#4 ACSR	7.12Y	118.6	0.00	6.36	0.00	0	0	0	100	0.00	0.0	5.484	0.046	0	0	0	0
PL.5299	PL.6234	A	#4 ACSR	7.12Y	118.6	0.00	6.36	2.50	2	17	4	97	0.00	0.0	5.446	0.027	17	4	2	2
PL.6231	PL.5297	A	#4 ACSR	7.12Y	118.7	0.01	6.34	2.22	2	15	3	98	0.00	0.0	5.411	0.114	9	2	1	2
PL.6232	PL.6231	A	#4 ACSR	7.12Y	118.7	0.00	6.34	0.95	1	7	1	99	0.00	0.0	5.441	0.030	7	1	1	1
PL.6595	PL.5293	A	1/0 AL URD	7.13Y	118.8	0.00	6.25	2.23	1	16	3	98	0.00	0.0	5.113	0.005	0	0	0	1
PD.1328	PL.6595	A	20T	7.13Y	118.8	0.00	6.25	2.23	0	16	3	98	0.00	0.0	5.113	0.005	0	0	0	1
PL.6596	PD.1328	A	1/0 AL URD	7.12Y	118.7	0.00	6.25	2.23	1	16	3	98	0.00	0.0	5.183	0.071	16	3	1	1
PL.6223	PL.6089	A	6 A (CWC)	7.13Y	118.9	0.01	6.12	7.26	5	51	11	98	0.01	0.0	4.991	0.045	8	2	2	7
PL.6224	PL.6223	A	6 A (CWC)	7.13Y	118.9	0.01	6.13	6.14	4	43	9	98	0.00	0.0	5.027	0.036	0	0	0	5

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5778	PL.6224	A	6 A (CWC)	7.13Y	118.9	0.00	6.13	2.55	2	18	4	98	0.00	0.0	5.057	0.030	18	4	3	3
PL.6225	PL.6224	A	#4 ACSR	7.13Y	118.9	0.01	6.14	3.59	3	25	5	98	0.00	0.0	5.141	0.114	12	3	1	2
PL.6226	PL.6225	A	#4 ACSR	7.13Y	118.9	0.00	6.15	1.83	1	13	3	97	0.00	0.0	5.202	0.061	13	3	1	1
PL.5602	PL.5274	ABC	#4/0 ACSR	7.29Y	121.5	0.12	3.53	51.49	15	1096	263	97	0.81	0.1	3.965	0.229	0	0	0	288
PL.5601	PL.5602	ABC	336 MCM AC	7.29Y	121.4	0.04	3.57	51.49	10	1095	261	97	0.28	0.0	4.088	0.123	0	0	0	288
PL.5588	PL.5601	ABC	336 MCM AC	7.28Y	121.4	0.07	3.65	46.92	9	997	240	97	0.40	0.0	4.307	0.219	6	1	3	272
PL.6098	PL.5588	ABC	336 MCM AC	7.28Y	121.3	0.05	3.69	46.51	9	988	237	97	0.25	0.0	4.445	0.138	0	0	0	268
PL.5603	PL.6098	ABC	336 MCM AC	7.28Y	121.3	0.00	3.69	14.96	3	315	86	96	0.00	0.0	4.455	0.010	0	0	0	64
PL.5604	PL.5603	ABC	#1/0 ACSR	7.28Y	121.3	0.00	3.70	4.14	2	82	37	91	0.00	0.0	4.508	0.053	0	0	0	5
PL.6793	PL.5604	ABC	6 A (CWC)	7.28Y	121.3	0.02	3.72	4.14	3	82	37	91	0.01	0.0	4.620	0.112	0	0	0	5
PD.1435	PL.6793	ABC	65T	7.28Y	121.3	0.00	3.72	4.14	0	82	37	91	0.00	0.0	4.620	0.112	0	0	0	5
PL.6794	PD.1435	ABC	6 A (CWC)	7.28Y	121.3	0.01	3.73	4.14	3	82	37	91	0.01	0.0	4.691	0.070	11	2	3	5
PL.6172	PL.6794	ABC	6 A (CWC)	7.28Y	121.3	0.00	3.73	3.66	3	72	35	90	0.00	0.0	4.714	0.023	0	0	0	2
PL.5783	PL.6172	ABC	6 A (CWC)	7.28Y	121.3	0.00	3.73	0.00	0	0	0	100	0.00	0.0	4.775	0.061	0	0	0	0
PL.5605	PL.6172	ABC	6 A (CWC)	7.28Y	121.3	0.00	3.73	3.66	3	72	35	90	0.00	0.0	4.735	0.021	72	35	2	2
PL.5718	PL.5605	ABC	6 A (CWC)	7.28Y	121.3	0.00	3.73	0.00	0	0	0	100	0.00	0.0	4.738	0.003	0	0	0	0
PL.5782	PL.5603	ABC	336 MCM AC	7.28Y	121.3	0.02	3.72	10.89	2	233	49	98	0.03	0.0	4.778	0.323	6	1	1	59
PL.5519	PL.5782	ABC	336 MCM AC	7.28Y	121.3	0.00	3.72	10.61	2	227	48	98	0.01	0.0	4.843	0.065	0	0	0	58
PL.6169	PL.5519	ABC	336 MCM AC	7.28Y	121.3	0.00	3.73	10.61	2	227	48	98	0.00	0.0	4.883	0.040	0	0	0	58
PL.6775	PL.6169	C	#4 ACSR	7.28Y	121.3	0.00	3.73	0.93	1	7	1	99	0.00	0.0	4.888	0.005	0	0	0	1
PD.1425	PL.6775	C	65T	7.28Y	121.3	0.00	3.73	0.93	0	7	1	99	0.00	0.0	4.888	0.005	0	0	0	1
PL.6776	PD.1425	C	#4 ACSR	7.28Y	121.3	0.00	3.73	0.93	1	7	1	99	0.00	0.0	4.944	0.056	7	1	1	1
PL.6167	PL.6169	ABC	336 MCM AC	7.28Y	121.3	0.00	3.73	10.30	2	220	47	98	0.00	0.0	4.921	0.038	6	1	1	57
PL.6168	PL.6167	ABC	336 MCM AC	7.28Y	121.3	0.00	3.73	10.04	2	214	45	98	0.00	0.0	4.971	0.050	0	0	1	56
PL.6166	PL.6168	ABC	336 MCM AC	7.28Y	121.3	0.01	3.74	10.04	2	214	45	98	0.01	0.0	5.051	0.080	0	0	0	55
PL.6561	PL.6166	C	#1/0 ACSR	7.28Y	121.3	0.00	3.74	0.49	0	4	1	97	0.00	0.0	5.056	0.005	0	0	0	1
PD.1310	PL.6561	C	65T	7.28Y	121.3	0.00	3.74	0.49	0	4	1	97	0.00	0.0	5.056	0.005	0	0	0	1
PL.6562	PD.1310	C	#1/0 ACSR	7.28Y	121.3	0.00	3.74	0.49	0	4	1	97	0.00	0.0	5.101	0.045	4	1	1	1
PL.6836	PL.6166	ABC	336 MCM AC	7.28Y	121.3	0.00	3.74	9.87	2	211	45	98	0.00	0.0	5.110	0.059	0	0	0	54
PL.7218	PL.6836	ABC	336 MCM AC	7.28Y	121.3	0.00	3.74	9.87	2	211	45	98	0.00	0.0	5.112	0.002	0	0	0	54
PD.1557	PL.7218	ABC	70L	7.28Y	121.3	0.00	3.74	9.87	14	211	45	98	0.00	0.0	5.112	0.002	0	0	0	54

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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.7219	PD.1557	ABC	336 MCM AC	7.28Y	121.3	0.01	3.75	9.87	2	211	45	98	0.01	0.0	5.224	0.113	0	0	0	54
PL.6844	PL.7219	ABC	336 MCM AC	7.28Y	121.3	0.00	3.75	9.54	2	204	43	98	0.00	0.0	5.244	0.019	0	0	0	52
PL.7222	PL.6844	ABC	336 MCM AC	7.28Y	121.3	0.00	3.75	9.54	2	204	43	98	0.00	0.0	5.245	0.002	0	0	0	52
RG.10	PL.7222	ABC	76.2 KVA	7.46Y	124.4	-3.11	0.64	9.54	10	204	43	98	percent Boost= 2.50		Tap= 4.0					52
PL.7223	RG.10	ABC	336 MCM AC	7.46Y	124.4	0.00	0.64	9.30	2	204	43	98	0.00	0.0	5.301	0.056	0	0	0	52
PL.6557	PL.7223	C	#1/0 ACSR	7.46Y	124.4	0.00	0.64	0.42	0	3	1	95	0.00	0.0	5.306	0.005	0	0	0	1
PD.1308	PL.6557	C	30T	7.46Y	124.4	0.00	0.64	0.42	0	3	1	95	0.00	0.0	5.306	0.005	0	0	0	1
PL.6558	PD.1308	C	#1/0 ACSR	7.46Y	124.4	0.00	0.64	0.42	0	3	1	95	0.00	0.0	5.318	0.011	3	1	1	1
PL.6099	PL.7223	ABC	336 MCM AC	7.46Y	124.4	0.00	0.65	9.16	2	201	43	98	0.00	0.0	5.348	0.046	8	2	2	51
PL.6162	PL.6099	ABC	336 MCM AC	7.46Y	124.3	0.01	0.65	7.89	2	173	37	98	0.01	0.0	5.449	0.101	2	0	1	42
PL.6163	PL.6162	ABC	336 MCM AC	7.46Y	124.3	0.00	0.65	7.79	2	171	36	98	0.00	0.0	5.490	0.040	4	1	2	41
PL.6148	PL.6163	ABC	336 MCM AC	7.46Y	124.3	0.01	0.66	7.60	1	166	35	98	0.01	0.0	5.598	0.108	3	1	2	39
PL.6147	PL.6148	ABC	336 MCM AC	7.46Y	124.3	0.00	0.66	7.48	1	164	35	98	0.00	0.0	5.669	0.071	0	0	0	37
PL.5785	PL.6147	ABC	336 MCM AC	7.46Y	124.3	0.00	0.67	7.40	1	162	34	98	0.00	0.0	5.705	0.037	0	0	0	36
PL.6543	PL.5785	A	#2 ACSR	7.46Y	124.3	0.00	0.67	1.49	1	11	2	98	0.00	0.0	5.710	0.005	0	0	0	2
PD.1301	PL.6543	A	30T	7.46Y	124.3	0.00	0.67	1.49	0	11	2	98	0.00	0.0	5.710	0.005	0	0	0	2
PL.6544	PD.1301	A	#1/0 ACSR	7.46Y	124.3	0.00	0.67	1.49	1	11	2	98	0.00	0.0	5.757	0.047	3	1	1	2
PL.6142	PL.6544	A	#1/0 ACSR	7.46Y	124.3	0.00	0.67	1.07	0	8	2	97	0.00	0.0	5.802	0.045	8	2	1	1
PL.5786	PL.5785	ABC	336 MCM AC	7.46Y	124.3	0.00	0.67	6.90	1	151	32	98	0.00	0.0	5.766	0.060	0	0	0	34
PL.6143	PL.5786	ABC	336 MCM AC	7.46Y	124.3	0.01	0.67	6.11	1	134	28	98	0.00	0.0	5.890	0.124	1	0	1	30
PL.6144	PL.6143	ABC	336 MCM AC	7.46Y	124.3	0.01	0.68	6.04	1	132	28	98	0.00	0.0	6.048	0.158	4	1	1	29
PL.6114	PL.6144	ABC	336 MCM AC	7.46Y	124.3	0.01	0.69	5.86	1	128	27	98	0.00	0.0	6.197	0.149	0	0	0	28
PL.5614	PL.6114	ABC	6 A (CWC)	7.46Y	124.3	0.04	0.73	5.86	4	128	27	98	0.04	0.0	6.388	0.191	0	0	0	28
PL.6141	PL.5614	ABC	6 A (CWC)	7.45Y	124.2	0.04	0.77	5.86	4	128	27	98	0.04	0.0	6.551	0.163	5	1	3	28
PL.6116	PL.6141	ABC	6 A (CWC)	7.45Y	124.2	0.04	0.80	4.96	4	109	23	98	0.03	0.0	6.767	0.216	16	3	3	23
PL.6139	PL.6116	ABC	6 A (CWC)	7.45Y	124.2	0.03	0.84	4.21	3	92	19	98	0.02	0.0	6.965	0.197	0	0	0	20
PL.5617	PL.6139	ABC	6 A (CWC)	7.45Y	124.1	0.01	0.85	2.76	2	60	13	98	0.01	0.0	7.091	0.126	0	0	0	16
PL.5788	PL.5617	ABC	6 A (CWC)	7.45Y	124.1	0.03	0.89	2.76	2	60	13	98	0.02	0.0	7.431	0.340	6	1	1	16
PL.6131	PL.5788	ABC	6 A (CWC)	7.45Y	124.1	0.02	0.90	2.47	2	54	11	98	0.01	0.0	7.603	0.172	7	1	5	15
PL.6129	PL.6131	ABC	6 A (CWC)	7.44Y	124.0	0.05	0.95	2.15	2	47	10	98	0.02	0.0	8.229	0.626	0	0	0	10
PL.5620	PL.6129	ABC	6 A (CWC)	7.44Y	124.0	0.00	0.96	2.15	2	47	10	98	0.00	0.0	8.266	0.037	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6120	PL.5620	ABC	6 A (CWC)	7.44Y	124.0	0.00	0.96	0.56	0	12	3	97	0.00	0.0	8.377	0.111	5	1	1	3
PL.6121	PL.6120	ABC	6 A (CWC)	7.44Y	124.0	0.00	0.96	0.34	0	8	2	97	0.00	0.0	8.399	0.022	7	1	1	2
PL.6132	PL.6121	ABC	6 A (CWC)	7.44Y	124.0	0.00	0.96	0.04	0	1	0	100	0.00	0.0	8.436	0.037	1	0	1	1
PL.6133	PL.6132	ABC	6 A (CWC)	7.44Y	124.0	0.00	0.96	0.00	0	0	0	100	0.00	0.0	8.511	0.075	0	0	0	0
PL.6801	PL.6133	ABC	6 A (CWC)	7.44Y	124.0	0.00	0.96	0.00	0	0	0	100	0.00	0.0	8.626	0.116	0	0	0	0
PD.9537-A	PL.6801	ABC	Open	7.44Y	124.0	0.00	0.96	0.00	0	0	0	100	0.00	0.0	8.626	0.116	0	0	0	0
PL.6535	PL.5620	B	6 A (CWC)	7.44Y	124.0	0.01	0.96	4.77	3	35	7	98	0.00	0.0	8.300	0.035	0	0	0	7
PD.1297	PL.6535	B	30T	7.44Y	124.0	0.00	0.96	4.77	0	35	7	98	0.00	0.0	8.300	0.035	0	0	0	7
PL.6536	PD.1297	B	6 A (CWC)	7.44Y	124.0	0.00	0.97	4.77	3	35	7	98	0.00	0.0	8.322	0.021	9	2	2	7
PL.6134	PL.6536	B	6 A (CWC)	7.44Y	124.0	0.01	0.98	3.57	3	26	6	97	0.00	0.0	8.408	0.086	0	0	0	5
PL.5621	PL.6134	B	#4 ACSR	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	8.504	0.096	0	0	0	0
PL.6135	PL.6134	B	6 A (CWC)	7.44Y	124.0	0.02	1.00	3.57	3	26	5	98	0.00	0.0	8.528	0.120	8	2	1	5
PL.6136	PL.6135	B	6 A (CWC)	7.44Y	124.0	0.01	1.01	2.44	2	18	4	98	0.00	0.0	8.670	0.141	13	3	2	4
PL.6137	PL.6136	B	6 A (CWC)	7.44Y	124.0	0.00	1.01	0.72	1	5	1	98	0.00	0.0	8.783	0.113	5	1	2	2
PL.6537	PL.5617	C	#2 ACSR	7.45Y	124.1	0.00	0.85	0.00	0	0	0	100	0.00	0.0	7.096	0.005	0	0	0	0
PD.1298	PL.6537	C	30T	7.45Y	124.1	0.00	0.85	0.00	0	0	0	100	0.00	0.0	7.096	0.005	0	0	0	0
PL.6538	PD.1298	C	#2 ACSR	7.45Y	124.1	0.00	0.85	0.00	0	0	0	100	0.00	0.0	7.130	0.034	0	0	0	0
PL.7224	PL.6139	C	#4 ACSR	7.45Y	124.2	0.00	0.84	1.81	1	13	3	97	0.00	0.0	6.967	0.003	0	0	0	2
PD.1558	PL.7224	C	30T	7.45Y	124.2	0.00	0.84	1.81	0	13	3	97	0.00	0.0	6.967	0.003	0	0	0	2
PL.7225	PD.1558	C	#4 ACSR	7.45Y	124.2	0.00	0.84	1.81	1	13	3	97	0.00	0.0	6.969	0.002	0	0	0	2
PL.5787	PL.7225	C	#4 ACSR	7.45Y	124.2	0.00	0.84	0.65	1	5	1	98	0.00	0.0	7.007	0.037	5	1	1	1
PL.6117	PL.7225	C	#4 ACSR	7.45Y	124.2	0.00	0.84	1.16	1	8	2	97	0.00	0.0	6.974	0.004	0	0	0	1
PL.5618	PL.6117	C	#4 ACSR	7.45Y	124.2	0.00	0.84	1.16	1	8	2	97	0.00	0.0	7.023	0.049	8	2	1	1
PL.6779	PL.6139	A	#4 ACSR	7.45Y	124.2	0.00	0.84	2.53	2	18	4	98	0.00	0.0	6.969	0.005	0	0	0	2
PD.1427	PL.6779	A	30T	7.45Y	124.2	0.00	0.84	2.53	0	18	4	98	0.00	0.0	6.969	0.005	0	0	0	2
PL.6780	PD.1427	A	#4 ACSR	7.45Y	124.1	0.03	0.86	2.53	2	18	4	98	0.00	0.0	7.435	0.466	18	4	2	2
PL.5615	PL.6141	C	6 A (CWC)	7.45Y	124.2	0.01	0.77	1.97	1	14	3	98	0.00	0.0	6.656	0.104	7	1	1	2
PL.6777	PL.5615	C	6 A (CWC)	7.45Y	124.2	0.00	0.77	1.03	1	8	2	97	0.00	0.0	6.660	0.005	0	0	0	1
PD.1426	PL.6777	C	30T	7.45Y	124.2	0.00	0.77	1.03	0	8	2	97	0.00	0.0	6.660	0.005	0	0	0	1
PL.6778	PD.1426	C	6 A (CWC)	7.45Y	124.2	0.00	0.78	1.03	1	8	2	97	0.00	0.0	6.721	0.060	0	0	0	1
PL.5616	PL.6778	C	#4 ACSR	7.45Y	124.2	0.00	0.78	1.03	1	8	2	97	0.00	0.0	6.801	0.081	8	2	1	1

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6539	PL.6144	A	#1/0 ACSR	7.46Y	124.3	0.00	0.68	0.00	0	0	0	100	0.00	0.0	6.052	0.005	0	0	0	0
PD.1299	PL.6539	A	30T	7.46Y	124.3	0.00	0.68	0.00	0	0	0	100	0.00	0.0	6.052	0.005	0	0	0	0
PL.6540	PD.1299	A	#1/0 ACSR	7.46Y	124.3	0.00	0.68	0.00	0	0	0	100	0.00	0.0	6.111	0.059	0	0	0	0
PL.6545	PL.5786	C	#1/0 ACSR	7.46Y	124.3	0.00	0.67	2.38	1	17	4	97	0.00	0.0	5.771	0.005	0	0	0	4
PD.1302	PL.6545	C	30T	7.46Y	124.3	0.00	0.67	2.38	0	17	4	97	0.00	0.0	5.771	0.005	0	0	0	4
PL.6546	PD.1302	C	#1/0 ACSR	7.46Y	124.3	0.00	0.67	2.38	1	17	4	97	0.00	0.0	5.789	0.019	4	1	2	4
PL.6145	PL.6546	C	#1/0 ACSR	7.46Y	124.3	0.00	0.67	1.78	1	13	3	97	0.00	0.0	5.829	0.040	7	2	1	2
PL.6146	PL.6145	C	#1/0 ACSR	7.46Y	124.3	0.00	0.67	0.77	0	6	1	99	0.00	0.0	5.990	0.160	6	1	1	1
PL.6541	PL.6147	C	#1/0 ACSR	7.46Y	124.3	0.00	0.66	0.26	0	2	0	100	0.00	0.0	5.673	0.005	0	0	0	1
PD.1300	PL.6541	C	30T	7.46Y	124.3	0.00	0.66	0.26	0	2	0	100	0.00	0.0	5.673	0.005	0	0	0	1
PL.6542	PD.1300	C	#1/0 ACSR	7.46Y	124.3	0.00	0.66	0.26	0	2	0	100	0.00	0.0	5.705	0.031	2	0	1	1
PL.6555	PL.6099	A	6 A (CWC)	7.46Y	124.4	0.00	0.65	2.75	2	20	4	98	0.00	0.0	5.352	0.005	0	0	0	7
PD.1307	PL.6555	A	20T	7.46Y	124.4	0.00	0.65	2.75	0	20	4	98	0.00	0.0	5.352	0.005	0	0	0	7
PL.6556	PD.1307	A	6 A (CWC)	7.46Y	124.3	0.01	0.65	2.75	2	20	4	98	0.00	0.0	5.405	0.052	0	0	0	7
PL.5609	PL.6556	A	#1/0 ACSR	7.46Y	124.3	0.00	0.66	1.22	1	9	2	98	0.00	0.0	5.439	0.034	0	0	0	2
PL.5612	PL.5609	A	#1/0 ACSR	7.46Y	124.3	0.00	0.66	0.86	0	6	1	99	0.00	0.0	5.471	0.033	6	1	1	1
PL.5613	PL.5609	A	#1/0 ACSR	7.46Y	124.3	0.00	0.66	0.36	0	3	1	95	0.00	0.0	5.469	0.030	3	1	1	1
PL.5610	PL.6556	A	6 A (CWC)	7.46Y	124.3	0.02	0.67	1.33	1	10	2	98	0.00	0.0	5.703	0.299	0	0	0	2
PL.5784	PL.5610	A	6 A (CWC)	7.46Y	124.3	0.00	0.67	0.28	0	2	0	100	0.00	0.0	5.738	0.034	2	0	1	1
PL.5709	PL.5610	A	#1/0 ACSR	7.46Y	124.3	0.00	0.67	1.05	0	8	2	97	0.00	0.0	5.745	0.041	8	2	1	1
PL.5608	PL.6556	A	#4 ACSR	7.46Y	124.3	0.00	0.65	0.21	0	1	0	100	0.00	0.0	5.441	0.037	1	0	3	3
PL.6715	PL.7219	B	#4 ACSR	7.28Y	121.3	0.00	3.75	1.00	1	7	1	99	0.00	0.0	5.229	0.005	0	0	0	2
PD.1393	PL.6715	B	30T	7.28Y	121.3	0.00	3.75	1.00	0	7	1	99	0.00	0.0	5.229	0.005	0	0	0	2
PL.6716	PD.1393	B	#4 ACSR	7.27Y	121.2	0.01	3.75	1.00	1	7	1	99	0.00	0.0	5.358	0.129	0	0	0	2
PL.5606	PL.6716	B	#4 ACSR	7.27Y	121.2	0.00	3.76	0.53	0	4	1	97	0.00	0.0	5.438	0.080	4	1	1	1
PL.5607	PL.6716	B	#4 ACSR	7.27Y	121.2	0.00	3.75	0.47	0	3	1	95	0.00	0.0	5.435	0.078	3	1	1	1
PL.5781	PL.6098	ABC	336 MCM AC	7.28Y	121.3	0.01	3.70	31.57	6	673	150	98	0.04	0.0	4.494	0.049	0	0	0	204
PL.7226	PL.5781	ABC	336 MCM AC	7.28Y	121.3	0.00	3.70	31.57	6	673	150	98	0.00	0.0	4.497	0.003	0	0	0	204
PD.1559	PL.7226	ABC	100L	7.28Y	121.3	0.00	3.70	31.57	32	673	150	98	0.00	0.0	4.497	0.003	0	0	0	204
PL.7227	PD.1559	ABC	336 MCM AC	7.28Y	121.3	0.01	3.71	31.57	6	673	150	98	0.04	0.0	4.543	0.046	0	0	0	204
PL.5789	PL.7227	ABC	336 MCM AC	7.27Y	121.2	0.06	3.77	29.94	6	638	142	98	0.21	0.0	4.816	0.273	0	0	0	197

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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6565	PL.5789	B	6 A (CWC)	7.27Y	121.2	0.00	3.77	0.23	0	2	0	100	0.00	0.0	4.821	0.005	0	0	0	2
PD.1312	PL.6565	B	40T	7.27Y	121.2	0.00	3.77	0.23	0	2	0	100	0.00	0.0	4.821	0.005	0	0	0	2
PL.6566	PD.1312	B	6 A (CWC)	7.27Y	121.2	0.00	3.77	0.23	0	2	0	100	0.00	0.0	4.856	0.035	2	0	1	2
PL.5626	PL.6566	B	#4 ACSR	7.27Y	121.2	0.00	3.77	0.01	0	0	0	100	0.00	0.0	4.985	0.129	0	0	1	1
PL.5790	PL.5789	ABC	336 MCM AC	7.27Y	121.2	0.05	3.82	29.86	6	636	142	98	0.17	0.0	5.049	0.232	0	0	0	195
PL.6563	PL.5790	A	#4 ACSR	7.27Y	121.2	0.00	3.82	0.25	0	2	0	100	0.00	0.0	5.053	0.005	0	0	0	1
PD.1311	PL.6563	A	40T	7.27Y	121.2	0.00	3.82	0.25	0	2	0	100	0.00	0.0	5.053	0.005	0	0	0	1
PL.6564	PD.1311	A	#4 ACSR	7.27Y	121.2	0.00	3.82	0.25	0	2	0	100	0.00	0.0	5.075	0.022	2	0	1	1
PL.5791	PL.5790	ABC	336 MCM AC	7.27Y	121.1	0.08	3.90	29.78	6	634	141	98	0.28	0.0	5.426	0.378	0	0	0	194
PL.6559	PL.5791	C	#2 ACSR	7.27Y	121.1	0.00	3.90	2.13	1	15	3	98	0.00	0.0	5.431	0.004	0	0	0	4
PD.1309	PL.6559	C	40T	7.27Y	121.1	0.00	3.90	2.13	0	15	3	98	0.00	0.0	5.431	0.004	0	0	0	4
PL.6560	PD.1309	C	#2 ACSR	7.27Y	121.1	0.01	3.91	2.13	1	15	3	98	0.00	0.0	5.583	0.152	5	1	1	4
PL.5627	PL.6560	C	#2 ACSR	7.27Y	121.1	0.00	3.91	0.33	0	2	0	100	0.00	0.0	5.630	0.047	2	0	1	1
PL.6174	PL.6560	C	#2 ACSR	7.27Y	121.1	0.00	3.91	1.13	1	8	2	97	0.00	0.0	5.651	0.069	8	2	1	2
PL.6175	PL.6174	C	#2 ACSR	7.27Y	121.1	0.00	3.91	0.00	0	0	0	100	0.00	0.0	5.721	0.070	0	0	1	1
PL.5792	PL.5791	ABC	336 MCM AC	7.27Y	121.1	0.01	3.91	29.07	6	619	137	98	0.04	0.0	5.489	0.063	0	0	1	190
PL.6551	PL.5792	B	#1/0 ACSR	7.27Y	121.1	0.00	3.91	1.17	1	8	2	97	0.00	0.0	5.493	0.005	0	0	0	2
PD.1305	PL.6551	B	40T	7.27Y	121.1	0.00	3.91	1.17	0	8	2	97	0.00	0.0	5.493	0.005	0	0	0	2
PL.6552	PD.1305	B	#1/0 ACSR	7.27Y	121.1	0.00	3.91	1.17	1	8	2	97	0.00	0.0	5.520	0.027	8	2	2	2
PL.5628	PL.5792	ABC	336 MCM AC	7.26Y	121.0	0.05	3.96	28.68	6	610	135	98	0.17	0.0	5.736	0.248	0	0	0	187
PL.7228	PL.5628	ABC	336 MCM AC	7.26Y	121.0	0.00	3.96	28.68	6	610	135	98	0.00	0.0	5.737	0.000	0	0	0	187
RG.11	PL.7228	ABC	76.2 KVA	7.45Y	124.1	-3.10	0.86	28.68	29	610	135	98	percent Boost= 2.50 Tap= 4.0						187	
PL.7229	RG.11	ABC	336 MCM AC	7.45Y	124.1	0.03	0.88	27.96	5	610	135	98	0.09	0.0	5.869	0.133	0	0	0	187
PL.5793	PL.7229	ABC	336 MCM AC	7.44Y	124.1	0.04	0.92	21.18	4	462	103	98	0.10	0.0	6.132	0.262	2	0	1	128
PL.6161	PL.5793	ABC	336 MCM AC	7.44Y	124.1	0.02	0.94	21.07	4	459	102	98	0.04	0.0	6.244	0.112	1	0	1	127
PL.6159	PL.6161	ABC	336 MCM AC	7.44Y	124.0	0.02	0.95	21.03	4	459	102	98	0.04	0.0	6.361	0.116	0	0	0	126
PL.5801	PL.6159	ABC	336 MCM AC	7.44Y	124.0	0.03	0.98	20.42	4	445	99	98	0.07	0.0	6.556	0.196	5	1	2	119
PL.6156	PL.5801	ABC	336 MCM AC	7.44Y	124.0	0.01	0.99	20.20	4	440	98	98	0.02	0.0	6.604	0.048	0	0	0	117
PL.6157	PL.6156	ABC	336 MCM AC	7.44Y	124.0	0.03	1.02	20.20	4	440	98	98	0.08	0.0	6.828	0.224	0	0	0	117
PL.6840	PL.6157	ABC	336 MCM AC	7.44Y	124.0	0.01	1.02	18.85	4	411	91	98	0.01	0.0	6.871	0.043	0	0	0	110
PL.7232	PL.6840	ABC	336 MCM AC	7.44Y	124.0	0.00	1.02	18.85	4	411	91	98	0.00	0.0	6.874	0.003	0	0	0	110

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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.7233	PL.7232	ABC	336 MCM AC	7.44Y	124.0	0.02	1.05	18.85	4	411	91	98	0.05	0.0	7.037	0.163	0	0	0	110
PL.5803	PL.7233	ABC	336 MCM AC	7.44Y	123.9	0.03	1.07	18.71	4	407	91	98	0.06	0.0	7.232	0.195	1	0	1	109
PL.6154	PL.5803	ABC	336 MCM AC	7.43Y	123.9	0.02	1.09	18.68	4	407	90	98	0.04	0.0	7.358	0.126	0	0	0	108
PL.6547	PL.6154	B	#1/0 ACSR	7.43Y	123.9	0.00	1.09	0.22	0	2	0	100	0.00	0.0	7.382	0.023	0	0	0	2
PD.1303	PL.6547	B	40T	7.43Y	123.9	0.00	1.09	0.22	0	2	0	100	0.00	0.0	7.382	0.023	0	0	0	2
PL.6548	PD.1303	B	#1/0 ACSR	7.43Y	123.9	0.00	1.09	0.22	0	2	0	100	0.00	0.0	7.407	0.025	2	0	2	2
PL.6102	PL.6154	ABC	336 MCM AC	7.43Y	123.9	0.02	1.10	18.61	4	405	90	98	0.04	0.0	7.492	0.134	0	0	0	106
PL.6103	PL.6102	ABC	336 MCM AC	7.43Y	123.9	0.00	1.11	18.61	4	405	90	98	0.00	0.0	7.495	0.003	0	0	0	106
PL.5659	PL.6103	B	6 A (CWC)	7.43Y	123.9	0.00	1.11	2.04	1	15	3	98	0.00	0.0	7.497	0.002	0	0	0	4
PD.1449	PL.5659	B	35L	7.43Y	123.9	0.00	1.11	2.04	6	15	3	98	0.00	0.0	7.497	0.002	0	0	0	4
PL.5820	PD.1449	B	6 A (CWC)	7.43Y	123.9	0.00	1.11	1.10	1	8	2	97	0.00	0.0	7.500	0.002	0	0	0	3
PL.5804	PL.5820	B	6 A (CWC)	7.43Y	123.9	0.01	1.11	1.10	1	8	2	97	0.00	0.0	7.678	0.178	2	0	1	3
PL.6152	PL.5804	B	6 A (CWC)	7.43Y	123.9	0.01	1.13	0.88	1	6	1	99	0.00	0.0	8.056	0.378	0	0	0	2
PL.5805	PL.6152	B	6 A (CWC)	7.43Y	123.9	0.00	1.13	0.35	0	3	1	95	0.00	0.0	8.312	0.256	0	0	0	1
PL.5664	PL.5805	B	#2 ACSR	7.43Y	123.9	0.00	1.13	0.35	0	3	1	95	0.00	0.0	8.364	0.052	3	1	1	1
PL.5662	PL.6152	B	#1/0 ACSR	7.43Y	123.9	0.00	1.13	0.53	0	4	1	97	0.00	0.0	8.154	0.098	4	1	1	1
PL.6100	PD.1449	B	6 A (CWC)	7.43Y	123.9	0.00	1.11	0.95	1	7	1	99	0.00	0.0	7.500	0.002	0	0	0	1
PL.5660	PL.6100	B	6 A (CWC)	7.43Y	123.9	0.00	1.11	0.95	1	7	1	99	0.00	0.0	7.561	0.061	7	1	1	1
PL.6104	PL.6103	ABC	336 MCM AC	7.43Y	123.9	0.01	1.12	17.93	3	390	87	98	0.02	0.0	7.586	0.091	1	0	1	102
PL.6783	PL.6104	C	6 A (CWC)	7.43Y	123.9	0.00	1.12	0.39	0	3	1	95	0.00	0.0	7.590	0.005	0	0	0	1
PD.1429	PL.6783	C	40T	7.43Y	123.9	0.00	1.12	0.39	0	3	1	95	0.00	0.0	7.590	0.005	0	0	0	1
PL.6784	PD.1429	C	6 A (CWC)	7.43Y	123.9	0.00	1.12	0.39	0	3	1	95	0.00	0.0	7.637	0.046	3	1	1	1
PL.6105	PL.6104	ABC	336 MCM AC	7.43Y	123.9	0.01	1.12	17.74	3	386	86	98	0.01	0.0	7.634	0.049	0	0	0	100
PL.6807	PL.6105	A	#1/0 ACSR	7.43Y	123.9	0.01	1.13	8.15	4	59	13	98	0.00	0.0	7.689	0.054	0	0	0	28
PL.7238	PL.6807	A	#1/0 ACSR	7.43Y	123.9	0.00	1.13	8.15	4	59	13	98	0.00	0.0	7.692	0.003	0	0	0	28
PD.1562	PL.7238	A	70L	7.43Y	123.9	0.00	1.13	8.15	12	59	13	98	0.00	0.0	7.692	0.003	0	0	0	28
PL.7239	PD.1562	A	#1/0 ACSR	7.43Y	123.8	0.03	1.16	8.15	4	59	13	98	0.01	0.0	7.861	0.169	2	0	1	28
PL.65717	PL.7239	A	#4 ACSR	7.43Y	123.8	0.00	1.17	0.59	0	4	1	97	0.00	0.0	7.948	0.088	0	0	0	2
PL.65718	PL.65717	A	#4 ACSR	7.43Y	123.8	0.00	1.17	0.59	0	4	1	97	0.00	0.0	8.110	0.162	3	1	1	2
PL.5667	PL.65718	A	#1/0 ACSR	7.43Y	123.8	0.00	1.17	0.11	0	1	0	100	0.00	0.0	8.202	0.091	1	0	1	1
PL.5665	PL.7239	A	#1/0 ACSR	7.43Y	123.8	0.00	1.16	7.29	3	53	11	98	0.00	0.0	7.869	0.008	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6126	PL.5665	A	#4 ACSR	7.43Y	123.8	0.02	1.18	7.29	6	53	11	98	0.01	0.0	7.927	0.058	2	0	1	25
PL.6127	PL.6126	A	#4 ACSR	7.43Y	123.8	0.02	1.20	7.00	5	51	11	98	0.01	0.0	8.001	0.075	3	1	2	24
PL.6125	PL.6127	A	#4 ACSR	7.42Y	123.7	0.06	1.27	6.61	5	48	10	98	0.02	0.0	8.220	0.219	0	0	0	22
PL.6123	PL.6125	A	#4 ACSR	7.42Y	123.7	0.02	1.29	6.61	5	48	10	98	0.01	0.0	8.298	0.078	1	0	2	22
PL.6124	PL.6123	A	#4 ACSR	7.42Y	123.6	0.06	1.35	6.43	5	47	10	98	0.02	0.0	8.521	0.223	0	0	0	20
PL.5806	PL.6124	A	#4 ACSR	7.42Y	123.6	0.04	1.39	5.62	4	41	9	98	0.01	0.0	8.674	0.153	0	0	0	18
PL.5807	PL.5806	A	#4 ACSR	7.42Y	123.6	0.02	1.41	5.61	4	41	9	98	0.01	0.0	8.764	0.090	0	0	0	17
PL.5808	PL.5807	A	#4 ACSR	7.41Y	123.4	0.15	1.57	5.61	4	41	9	98	0.05	0.1	9.393	0.629	0	0	0	17
PL.5809	PL.5808	A	#4 ACSR	7.40Y	123.4	0.05	1.62	5.61	4	41	9	98	0.02	0.0	9.607	0.215	3	1	1	17
PL.6503	PL.5809	A	#4 ACSR	7.40Y	123.4	0.01	1.63	5.22	4	38	8	98	0.00	0.0	9.663	0.056	0	0	0	16
PL.6119	PL.6503	A	#4 ACSR	7.40Y	123.3	0.03	1.66	4.81	4	35	7	98	0.01	0.0	9.810	0.147	6	1	2	14
PL.5671	PL.6119	A	#1/0 ACSR	7.40Y	123.3	0.00	1.66	1.80	1	13	3	97	0.00	0.0	9.935	0.125	13	3	2	2
PL.6500	PL.6119	A	#4 ACSR	7.40Y	123.3	0.00	1.66	2.20	2	16	3	98	0.00	0.0	9.842	0.032	9	2	2	10
PL.6501	PL.6500	A	#4 ACSR	7.40Y	123.3	0.00	1.66	0.90	1	7	1	99	0.00	0.0	9.927	0.084	2	1	2	8
PL.6499	PL.6501	A	#4 ACSR	7.40Y	123.3	0.01	1.67	0.57	0	4	1	97	0.00	0.0	10.324	0.397	0	0	1	6
PL.6498	PL.6499	A	#4 ACSR	7.40Y	123.3	0.00	1.68	0.57	0	4	1	97	0.00	0.0	10.438	0.114	1	0	1	5
PL.6496	PL.6498	A	#4 ACSR	7.40Y	123.3	0.00	1.68	0.38	0	3	1	95	0.00	0.0	10.584	0.146	0	0	0	4
PL.5672	PL.6496	A	#4 ACSR	7.40Y	123.3	0.00	1.68	0.11	0	1	0	100	0.00	0.0	10.636	0.052	1	0	1	1
PL.5673	PL.6496	A	#4 ACSR	7.40Y	123.3	0.00	1.68	0.15	0	1	0	100	0.00	0.0	10.656	0.072	0	0	1	2
PL.5674	PL.5673	A	#4 ACSR	7.40Y	123.3	0.00	1.68	0.08	0	1	0	100	0.00	0.0	10.795	0.139	0	0	0	1
PL.5675	PL.5674	A	#1/0 ACSR	7.40Y	123.3	0.00	1.68	0.08	0	1	0	100	0.00	0.0	10.845	0.049	1	0	1	1
PL.6494	PL.6496	A	#4 ACSR	7.40Y	123.3	0.00	1.68	0.12	0	1	0	100	0.00	0.0	10.658	0.073	0	0	0	1
PL.6495	PL.6494	A	#4 ACSR	7.40Y	123.3	0.00	1.68	0.12	0	1	0	100	0.00	0.0	10.951	0.294	1	0	1	1
PL.6504	PL.6503	A	#4 ACSR	7.40Y	123.4	0.00	1.63	0.41	0	3	1	95	0.00	0.0	9.676	0.013	2	0	1	2
PL.6505	PL.6504	A	#4 ACSR	7.40Y	123.4	0.00	1.63	0.17	0	1	0	100	0.00	0.0	10.374	0.698	1	0	1	1
PL.5669	PL.5807	A	#4 ACSR	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	8.826	0.062	0	0	0	0
PL.5668	PL.5806	A	#4 ACSR	7.42Y	123.6	0.00	1.39	0.01	0	0	0	100	0.00	0.0	8.725	0.051	0	0	1	1
PL.6507	PL.6124	A	#2 ACSR	7.42Y	123.6	0.00	1.35	0.81	0	6	1	99	0.00	0.0	8.556	0.035	0	0	0	2
PL.6508	PL.6507	A	#2 ACSR	7.42Y	123.6	0.00	1.35	0.81	0	6	1	99	0.00	0.0	8.576	0.019	2	0	1	2
PL.6506	PL.6508	A	#2 ACSR	7.42Y	123.6	0.00	1.35	0.53	0	4	1	97	0.00	0.0	8.634	0.058	4	1	1	1
PL.5661	PL.6105	B	#1/0 ACSR	7.43Y	123.9	0.01	1.13	45.08	20	327	73	98	0.02	0.0	7.644	0.010	0	0	0	72

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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.7234	PL.5661	B	#1/0 ACSR	7.43Y	123.9	0.00	1.14	45.08	20	327	73	98	0.01	0.0	7.647	0.003	0	0	0	72
PD.1561	PL.7234	B	70L	7.43Y	123.9	0.00	1.14	45.08	64	327	73	98	0.00	0.0	7.647	0.003	0	0	0	72
PL.7235	PD.1561	B	#1/0 ACSR	7.43Y	123.8	0.07	1.20	45.08	20	327	73	98	0.15	0.0	7.715	0.068	0	0	0	72
PL.7236	PL.7235	B	#1/0 ACSR	7.43Y	123.8	0.00	1.21	45.08	20	327	73	98	0.01	0.0	7.718	0.003	0	0	0	72
RG.12	PL.7236	B	76.2 KVA	7.47Y	124.6	-0.78	0.43	45.08	45	327	73	98	percent Boost= 0.00 Tap= 0.0						72	
PL.7237	RG.12	B	#1/0 ACSR	7.47Y	124.5	0.06	0.48	44.80	19	327	73	98	0.12	0.0	7.774	0.056	0	0	0	72
PL.5676	PL.7237	B	6 A (CWC)	7.44Y	124.1	0.45	0.93	44.80	32	327	73	98	1.07	0.3	7.999	0.225	12	3	1	72
PL.6493	PL.5676	B	6 A (CWC)	7.44Y	124.0	0.09	1.02	43.12	31	313	70	98	0.21	0.1	8.046	0.046	5	1	1	71
PL.6491	PL.6493	B	6 A (CWC)	7.43Y	123.9	0.07	1.09	42.49	30	309	68	98	0.17	0.1	8.085	0.039	7	1	3	70
PL.6490	PL.6491	B	6 A (CWC)	7.42Y	123.7	0.22	1.32	41.54	30	302	67	98	0.50	0.2	8.205	0.119	2	0	4	67
PL.6489	PL.6490	B	6 A (CWC)	7.41Y	123.4	0.26	1.58	41.30	30	299	66	98	0.59	0.2	8.346	0.142	0	0	0	63
PL.5677	PL.6489	B	#4 ACSR	7.41Y	123.4	0.00	1.58	0.28	0	2	0	100	0.00	0.0	8.363	0.017	2	0	1	1
PL.5810	PL.6489	B	6 A (CWC)	7.39Y	123.1	0.28	1.86	41.02	29	297	65	98	0.62	0.2	8.497	0.151	0	0	0	62
PL.5811	PL.5810	B	6 A (CWC)	7.37Y	122.8	0.39	2.24	38.57	28	278	61	98	0.80	0.3	8.720	0.223	0	0	0	58
PL.5680	PL.5811	B	6 A (CWC)	7.37Y	122.8	0.00	2.24	0.00	0	0	0	100	0.00	0.0	8.784	0.064	0	0	0	0
PL.6486	PL.5811	B	6 A (CWC)	7.35Y	122.6	0.19	2.43	38.57	28	277	61	98	0.38	0.1	8.828	0.108	7	1	1	58
PL.6487	PL.6486	B	6 A (CWC)	7.35Y	122.4	0.15	2.58	37.62	27	270	59	98	0.30	0.1	8.918	0.090	8	2	1	57
PL.6485	PL.6487	B	6 A (CWC)	7.33Y	122.1	0.34	2.91	36.56	26	262	57	98	0.66	0.3	9.122	0.204	0	0	0	56
PL.10176	PL.6485	B	6 A (CWC)	7.31Y	121.9	0.23	3.15	35.67	25	255	55	98	0.44	0.2	9.267	0.145	4	1	1	55
PL.10177	PL.10176	B	6 A (CWC)	7.31Y	121.8	0.06	3.21	35.12	25	251	54	98	0.11	0.0	9.307	0.040	12	3	2	54
PL.10174	PL.10177	B	6 A (CWC)	7.31Y	121.8	0.01	3.21	1.14	1	8	2	97	0.00	0.0	9.465	0.158	6	1	1	2
PL.10175	PL.10174	B	6 A (CWC)	7.31Y	121.8	0.00	3.21	0.36	0	3	1	95	0.00	0.0	9.530	0.065	3	1	1	1
PL.6109	PL.10177	B	6 A (CWC)	7.29Y	121.6	0.23	3.43	32.30	23	231	50	98	0.39	0.2	9.464	0.156	2	0	1	50
PL.6111	PL.6109	B	6 A (CWC)	7.28Y	121.4	0.17	3.61	31.32	22	223	48	98	0.30	0.1	9.588	0.124	0	0	0	48
PL.5684	PL.6111	B	6 A (CWC)	7.28Y	121.4	0.00	3.61	1.51	1	11	2	98	0.00	0.0	9.662	0.074	3	1	1	4
PL.5685	PL.5684	B	#4 ACSR	7.28Y	121.4	0.01	3.62	1.13	1	8	2	97	0.00	0.0	9.913	0.251	0	0	0	3
PL.5686	PL.5685	B	#1/0 ACSR	7.28Y	121.4	0.00	3.62	0.45	0	3	1	95	0.00	0.0	9.961	0.049	3	1	1	1
PL.6479	PL.5685	B	#4 ACSR	7.28Y	121.4	0.00	3.63	0.68	1	5	1	98	0.00	0.0	9.951	0.038	1	0	1	2
PL.6480	PL.6479	B	#4 ACSR	7.28Y	121.4	0.00	3.63	0.58	0	4	1	97	0.00	0.0	10.075	0.124	4	1	1	1
PL.5814	PL.6111	B	6 A (CWC)	7.28Y	121.3	0.13	3.73	29.82	21	212	46	98	0.20	0.1	9.682	0.094	0	0	0	44
PL.5815	PL.5814	B	6 A (CWC)	7.26Y	121.0	0.27	4.01	29.05	21	207	45	98	0.42	0.2	9.898	0.215	11	2	1	42

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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6478	PL.5815	B	6 A (CWC)	7.24Y	120.7	0.34	4.34	27.56	20	196	42	98	0.49	0.2	10.179	0.282	15	3	2	41
PL.6785	PL.6478	B	6 A (CWC)	7.24Y	120.7	0.01	4.35	25.28	18	179	38	98	0.01	0.0	10.184	0.005	0	0	0	38
PD.1430	PL.6785	B	30T	7.24Y	120.7	0.00	4.35	25.28	0	179	38	98	0.00	0.0	10.184	0.005	0	0	0	38
PL.6786	PD.1430	B	6 A (CWC)	7.24Y	120.6	0.07	4.41	25.28	18	179	38	98	0.09	0.0	10.242	0.058	4	1	2	38
PL.6476	PL.6786	B	6 A (CWC)	7.23Y	120.5	0.13	4.54	24.72	18	175	37	98	0.17	0.1	10.359	0.117	0	0	0	36
PL.6475	PL.6476	B	6 A (CWC)	7.22Y	120.4	0.04	4.59	24.72	18	175	37	98	0.05	0.0	10.399	0.040	15	3	2	36
PL.6474	PL.6475	B	6 A (CWC)	7.22Y	120.3	0.08	4.66	22.67	16	160	34	98	0.10	0.1	10.479	0.080	9	2	2	34
PL.6473	PL.6474	B	6 A (CWC)	7.22Y	120.3	0.04	4.70	21.39	15	151	32	98	0.04	0.0	10.518	0.040	0	0	1	32
PL.6472	PL.6473	B	6 A (CWC)	7.21Y	120.1	0.19	4.89	21.39	15	151	32	98	0.22	0.1	10.724	0.206	9	2	2	31
PL.6113	PL.6472	B	6 A (CWC)	7.20Y	120.0	0.07	4.97	19.33	14	136	29	98	0.08	0.1	10.809	0.085	0	0	0	26
PL.5972	PL.6113	B	6 A (CWC)	7.19Y	119.8	0.24	5.21	19.33	14	136	29	98	0.25	0.2	11.100	0.290	8	2	2	26
PL.6471	PL.5972	B	6 A (CWC)	7.18Y	119.7	0.07	5.28	18.12	13	127	27	98	0.07	0.1	11.188	0.088	0	0	0	24
PL.6815	PL.6471	B	6 A (CWC)	7.18Y	119.7	0.00	5.29	11.75	8	83	18	98	0.00	0.0	11.191	0.003	0	0	0	17
PD.1447	PL.6815	B	25H	7.18Y	119.7	0.00	5.29	11.75	47	83	18	98	0.00	0.0	11.191	0.003	0	0	0	17
PL.6816	PD.1447	B	6 A (CWC)	7.18Y	119.6	0.13	5.41	11.75	8	83	18	98	0.08	0.1	11.436	0.245	0	0	0	17
PL.6469	PL.6816	B	6 A (CWC)	7.17Y	119.5	0.05	5.47	11.75	8	83	18	98	0.03	0.0	11.544	0.108	12	2	2	17
PL.5692	PL.6469	B	#1/0 ACSR	7.17Y	119.5	0.00	5.47	0.84	0	6	1	99	0.00	0.0	11.604	0.060	6	1	1	1
PL.6115	PL.6469	B	6 A (CWC)	7.17Y	119.4	0.09	5.55	9.25	7	65	14	98	0.04	0.1	11.757	0.213	4	1	1	14
PL.6467	PL.6115	B	6 A (CWC)	7.16Y	119.4	0.03	5.59	8.69	6	61	13	98	0.02	0.0	11.846	0.089	5	1	2	13
PL.6465	PL.6467	B	6 A (CWC)	7.16Y	119.4	0.04	5.63	7.97	6	56	12	98	0.02	0.0	11.970	0.124	0	0	0	11
PL.6464	PL.6465	B	6 A (CWC)	7.16Y	119.3	0.02	5.65	7.97	6	56	12	98	0.01	0.0	12.037	0.067	0	0	0	11
PL.5818	PL.6464	B	6 A (CWC)	7.16Y	119.3	0.05	5.70	6.51	5	46	10	98	0.02	0.0	12.197	0.160	0	0	0	9
PL.5819	PL.5818	B	6 A (CWC)	7.15Y	119.2	0.08	5.78	4.93	4	35	7	98	0.02	0.1	12.561	0.364	0	0	1	6
PL.5699	PL.5819	B	6 A (CWC)	7.15Y	119.2	0.00	5.78	0.80	1	6	1	99	0.00	0.0	12.694	0.132	6	1	1	1
PL.28281	PL.5699	B	#1/0 ACSR	7.15Y	119.2	0.00	5.78	0.00	0	0	0	100	0.00	0.0	12.732	0.038	0	0	0	0
PL.5697	PL.5819	B	6 A (CWC)	7.15Y	119.2	0.04	5.82	4.06	3	28	6	98	0.01	0.0	12.792	0.231	0	0	0	4
PL.5707	PL.5697	B	#4 ACSR	7.15Y	119.1	0.03	5.85	4.06	3	28	6	98	0.01	0.0	12.960	0.168	0	0	0	4
PL.6460	PL.5707	B	#4 ACSR	7.15Y	119.1	0.01	5.87	2.73	2	19	4	98	0.00	0.0	13.059	0.099	0	0	0	3
PL.6461	PL.6460	B	#4 ACSR	7.15Y	119.1	0.01	5.87	2.73	2	19	4	98	0.00	0.0	13.148	0.088	10	2	1	3
PL.6459	PL.6461	B	#4 ACSR	7.15Y	119.1	0.01	5.89	1.32	1	9	2	98	0.00	0.0	13.370	0.222	0	0	1	2
PL.5698	PL.6459	B	#4 ACSR	7.15Y	119.1	0.00	5.89	1.31	1	9	2	98	0.00	0.0	13.534	0.164	9	2	1	1

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5706	PL.5707	B	#4 ACSR	7.15Y	119.1	0.00	5.86	1.33	1	9	2	98	0.00	0.0	13.032	0.071	9	2	1	1
PL.5694	PL.5818	B	6 A (CWC)	7.16Y	119.3	0.01	5.71	1.58	1	11	2	98	0.00	0.0	12.281	0.084	3	1	2	3
PL.5695	PL.5694	B	#4 ACSR	7.16Y	119.3	0.00	5.71	1.10	1	8	2	97	0.00	0.0	12.356	0.075	8	2	1	1
PL.5693	PL.6464	B	#2 ACSR	7.16Y	119.3	0.00	5.66	1.46	1	10	2	98	0.00	0.0	12.064	0.027	10	2	2	2
PL.6511	PL.6471	B	6 A (CWC)	7.18Y	119.7	0.03	5.31	6.37	5	45	9	98	0.01	0.0	11.279	0.091	1	0	1	7
PL.6512	PL.6511	B	6 A (CWC)	7.18Y	119.7	0.01	5.32	6.17	4	43	9	98	0.00	0.0	11.321	0.042	21	4	2	6
PL.6510	PL.6512	B	6 A (CWC)	7.18Y	119.7	0.01	5.33	3.24	2	23	5	98	0.00	0.0	11.411	0.090	0	0	0	4
PL.6509	PL.6510	B	6 A (CWC)	7.18Y	119.7	0.01	5.34	3.24	2	23	5	98	0.00	0.0	11.485	0.073	0	0	0	4
PL.5700	PL.6509	B	#4 ACSR	7.18Y	119.6	0.01	5.35	0.76	1	5	1	98	0.00	0.0	11.741	0.256	0	0	0	1
PL.5701	PL.5700	B	6 A (CWC)	7.18Y	119.6	0.01	5.36	0.76	1	5	1	98	0.00	0.0	11.973	0.233	0	0	0	1
PL.5702	PL.5701	B	#4 ACSR	7.18Y	119.6	0.00	5.36	0.76	1	5	1	98	0.00	0.0	12.005	0.032	0	0	0	1
PL.64872	PL.5702	B	#4 ACSR	7.18Y	119.6	0.00	5.36	0.00	0	0	0	100	0.00	0.0	12.008	0.003	0	0	0	0
PL.5703	PL.5702	B	6 A (CWC)	7.18Y	119.6	0.00	5.36	0.76	1	5	1	98	0.00	0.0	12.154	0.149	5	1	1	1
PL.5817	PL.6509	B	6 A (CWC)	7.18Y	119.7	0.01	5.35	2.47	2	17	4	97	0.00	0.0	11.550	0.065	8	2	1	3
PL.5705	PL.5817	B	#1/0 ACSR	7.18Y	119.7	0.00	5.35	1.40	1	10	2	98	0.00	0.0	11.679	0.129	10	2	2	2
PL.6711	PL.6472	B	6 A (CWC)	7.21Y	120.1	0.00	4.89	0.73	1	5	1	98	0.00	0.0	10.729	0.005	0	0	0	3
PD.1391	PL.6711	B	30T	7.21Y	120.1	0.00	4.89	0.73	0	5	1	98	0.00	0.0	10.729	0.005	0	0	0	3
PL.6712	PD.1391	B	6 A (CWC)	7.21Y	120.1	0.01	4.91	0.73	1	5	1	98	0.00	0.0	11.178	0.449	0	0	0	3
PL.5690	PL.6712	B	#4 ACSR	7.21Y	120.1	0.00	4.91	0.32	0	2	0	100	0.00	0.0	11.228	0.049	2	0	1	1
PL.5691	PL.6712	B	#4 ACSR	7.21Y	120.1	0.01	4.91	0.42	0	3	1	95	0.00	0.0	11.613	0.435	2	0	1	2
PL.6463	PL.5691	B	#4 ACSR	7.21Y	120.1	0.00	4.92	0.17	0	1	0	100	0.00	0.0	11.674	0.061	1	0	1	1
PL.5689	PL.6712	B	6 A (CWC)	7.21Y	120.1	0.00	4.91	0.00	0	0	0	100	0.00	0.0	11.696	0.517	0	0	0	0
PL.33057	PL.6478	B	6 A (CWC)	7.24Y	120.7	0.00	4.34	0.17	0	1	0	100	0.00	0.0	10.213	0.033	0	0	0	1
PL.33058	PL.33057	B	6 A (CWC)	7.24Y	120.7	0.00	4.35	0.17	0	1	0	100	0.00	0.0	10.534	0.321	0	0	0	1
PL.5816	PL.33058	B	6 A (CWC)	7.24Y	120.7	0.00	4.35	0.00	0	0	0	100	0.00	0.0	10.563	0.029	0	0	0	0
PL.5688	PL.33058	B	#2 ACSR	7.24Y	120.7	0.00	4.35	0.17	0	1	0	100	0.00	0.0	10.607	0.073	1	0	1	1
PL.6483	PL.5814	B	6 A (CWC)	7.28Y	121.3	0.00	3.73	0.77	1	5	1	98	0.00	0.0	9.701	0.019	0	0	0	2
PL.6484	PL.6483	B	6 A (CWC)	7.28Y	121.3	0.00	3.74	0.77	1	5	1	98	0.00	0.0	9.891	0.190	4	1	1	2
PL.6482	PL.6484	B	6 A (CWC)	7.28Y	121.3	0.00	3.74	0.18	0	1	0	100	0.00	0.0	9.945	0.054	1	0	1	1
PL.5683	PL.6109	B	#4 ACSR	7.29Y	121.6	0.00	3.43	0.68	1	5	1	98	0.00	0.0	9.523	0.059	5	1	1	1
PL.5681	PL.6485	B	#4 ACSR	7.33Y	122.1	0.00	2.92	0.90	1	6	1	99	0.00	0.0	9.177	0.055	6	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6488	PL.5810	B	#1/0 ACSR	7.39Y	123.1	0.00	1.86	2.45	1	18	4	98	0.00	0.0	8.534	0.037	2	0	1	4
PL.6713	PL.6488	B	#1/0 ACSR	7.39Y	123.1	0.00	1.86	2.17	1	16	3	98	0.00	0.0	8.538	0.004	0	0	0	3
PD.1392	PL.6713	B	30T	7.39Y	123.1	0.00	1.86	2.17	0	16	3	98	0.00	0.0	8.538	0.004	0	0	0	3
PL.6714	PD.1392	B	#1/0 ACSR	7.39Y	123.1	0.02	1.88	2.17	1	16	3	98	0.00	0.0	8.875	0.337	0	0	0	3
PL.5812	PL.6714	B	#1/0 ACSR	7.39Y	123.1	0.00	1.88	1.14	0	8	2	97	0.00	0.0	8.900	0.024	8	2	2	2
PL.5679	PL.6714	B	#1/0 ACSR	7.39Y	123.1	0.00	1.88	1.03	0	7	2	96	0.00	0.0	9.085	0.210	7	2	1	1
PL.6549	PL.7233	A	#1/0 ACSR	7.44Y	124.0	0.00	1.05	0.43	0	3	1	95	0.00	0.0	7.042	0.005	0	0	0	1
PD.1304	PL.6549	A	40T	7.44Y	124.0	0.00	1.05	0.43	0	3	1	95	0.00	0.0	7.042	0.005	0	0	0	1
PL.6550	PD.1304	A	#1/0 ACSR	7.44Y	124.0	0.00	1.05	0.43	0	3	1	95	0.00	0.0	7.113	0.071	3	1	1	1
CP.12	PL.7232	ABC	Cap (300)	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	6.874	0.071	0	0	0	0
PL.5656	PL.6157	B	#1/0 ACSR	7.44Y	124.0	0.00	1.02	4.06	2	30	6	98	0.00	0.0	6.853	0.026	0	0	0	7
PL.6818	PL.5656	B	6 A (CWC)	7.44Y	124.0	0.00	1.02	4.06	3	30	6	98	0.00	0.0	6.856	0.003	0	0	0	7
PD.1450	PL.6818	B	35L	7.44Y	124.0	0.00	1.02	4.06	12	30	6	98	0.00	0.0	6.856	0.003	0	0	0	7
PL.6819	PD.1450	B	6 A (CWC)	7.44Y	124.0	0.01	1.03	4.06	3	30	6	98	0.00	0.0	6.884	0.027	0	0	0	7
PL.10183	PL.6819	B	6 A (CWC)	7.44Y	124.0	0.01	1.04	3.01	2	22	5	98	0.00	0.0	6.994	0.111	3	1	1	5
PL.10184	PL.10183	B	6 A (CWC)	7.44Y	123.9	0.01	1.05	2.60	2	19	4	98	0.00	0.0	7.121	0.127	0	0	0	4
PL.6457	PL.10184	B	6 A (CWC)	7.44Y	123.9	0.01	1.06	2.60	2	19	4	98	0.00	0.0	7.174	0.053	5	1	1	4
PL.6455	PL.6457	B	6 A (CWC)	7.44Y	123.9	0.00	1.06	1.92	1	14	3	98	0.00	0.0	7.233	0.059	2	1	1	3
PL.5657	PL.6455	B	#4 ACSR	7.44Y	123.9	0.02	1.08	1.60	1	12	2	99	0.00	0.0	7.629	0.397	8	2	1	2
PL.5658	PL.5657	B	#2 ACSR	7.44Y	123.9	0.00	1.08	0.49	0	4	1	97	0.00	0.0	7.669	0.040	4	1	1	1
PL.7251	PL.6819	B	#1/0 ACSR	7.44Y	124.0	0.00	1.03	1.05	0	8	2	97	0.00	0.0	6.952	0.068	8	2	2	2
PL.6553	PL.6159	C	#4 ACSR	7.44Y	124.0	0.00	0.95	0.93	1	7	1	99	0.00	0.0	6.365	0.005	0	0	0	3
PD.1306	PL.6553	C	40T	7.44Y	124.0	0.00	0.95	0.93	0	7	1	99	0.00	0.0	6.365	0.005	0	0	0	3
PL.6554	PD.1306	C	#4 ACSR	7.44Y	124.0	0.00	0.95	0.93	1	7	1	99	0.00	0.0	6.394	0.029	7	1	2	3
PL.5655	PL.6554	C	#4 ACSR	7.44Y	124.0	0.00	0.95	0.03	0	0	0	100	0.00	0.0	6.623	0.229	0	0	1	1
PL.6781	PL.6159	A	#2 ACSR	7.44Y	124.0	0.00	0.95	0.93	1	7	1	99	0.00	0.0	6.365	0.005	0	0	0	4
PD.1428	PL.6781	A	40T	7.44Y	124.0	0.00	0.95	0.93	0	7	1	99	0.00	0.0	6.365	0.005	0	0	0	4
PL.6782	PD.1428	A	#2 ACSR	7.44Y	124.0	0.00	0.95	0.93	1	7	1	99	0.00	0.0	6.412	0.047	3	1	2	4
PL.6158	PL.6782	A	#2 ACSR	7.44Y	124.0	0.00	0.96	0.54	0	4	1	97	0.00	0.0	6.610	0.198	0	0	0	2
PL.5802	PL.6158	A	#2 ACSR	7.44Y	124.0	0.00	0.96	0.18	0	1	0	100	0.00	0.0	6.651	0.041	1	0	1	1
PL.5654	PL.6158	A	#1/0 ACSR	7.44Y	124.0	0.00	0.96	0.35	0	3	1	95	0.00	0.0	6.784	0.174	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5629	PL.7229	B	6 A (CWC)	7.44Y	124.0	0.08	0.96	20.35	15	148	32	98	0.09	0.1	5.954	0.085	0	0	0	59
PL.7230	PL.5629	B	6 A (CWC)	7.44Y	124.0	0.00	0.96	20.35	15	148	31	98	0.00	0.0	5.958	0.003	0	0	0	59
PD.1560	PL.7230	B	35L	7.44Y	124.0	0.00	0.96	20.35	58	148	31	98	0.00	0.0	5.958	0.003	0	0	0	59
PL.7231	PD.1560	B	6 A (CWC)	7.43Y	123.8	0.19	1.15	20.35	15	148	31	98	0.21	0.1	6.165	0.207	0	0	0	59
PL.6709	PL.7231	B	6 A (CWC)	7.43Y	123.8	0.00	1.15	6.42	5	47	10	98	0.00	0.0	6.170	0.005	0	0	0	15
PD.1389	PL.6709	B	40T	7.43Y	123.8	0.00	1.15	6.42	0	47	10	98	0.00	0.0	6.170	0.005	0	0	0	15
PL.6710	PD.1389	B	6 A (CWC)	7.43Y	123.8	0.01	1.17	6.42	5	47	10	98	0.01	0.0	6.222	0.052	2	0	2	15
PL.6445	PL.6710	B	6 A (CWC)	7.43Y	123.8	0.01	1.18	6.10	4	44	9	98	0.00	0.0	6.272	0.050	3	1	2	13
PL.6446	PL.6445	B	6 A (CWC)	7.43Y	123.8	0.06	1.24	5.74	4	42	9	98	0.02	0.0	6.525	0.253	1	0	1	11
PL.6444	PL.6446	B	6 A (CWC)	7.42Y	123.7	0.02	1.26	5.62	4	41	9	98	0.00	0.0	6.591	0.065	4	1	2	10
PL.6442	PL.6444	B	6 A (CWC)	7.42Y	123.7	0.00	1.27	5.10	4	37	8	98	0.00	0.0	6.612	0.022	0	0	0	8
PL.5638	PL.6442	B	6 A (CWC)	7.42Y	123.7	0.01	1.28	5.10	4	37	8	98	0.00	0.0	6.658	0.046	0	0	0	8
PL.5640	PL.5638	B	#1/0 ACSR	7.42Y	123.7	0.00	1.28	1.07	0	8	2	97	0.00	0.0	6.775	0.116	8	2	2	2
PL.6440	PL.5638	B	#1/0 ACSR	7.42Y	123.7	0.00	1.28	4.04	2	29	6	98	0.00	0.0	6.695	0.036	8	2	1	6
PL.6441	PL.6440	B	#1/0 ACSR	7.42Y	123.7	0.01	1.29	2.89	1	21	4	98	0.00	0.0	6.872	0.177	10	2	3	5
PL.5639	PL.6441	B	#2 ACSR	7.42Y	123.7	0.00	1.29	0.83	0	6	1	99	0.00	0.0	6.928	0.056	6	1	1	1
PL.6026	PL.6441	B	#1/0 ACSR	7.42Y	123.7	0.00	1.29	0.69	0	5	1	98	0.00	0.0	6.919	0.047	5	1	1	1
PL.5631	PL.7231	B	6 A (CWC)	7.43Y	123.8	0.04	1.19	13.94	10	101	21	98	0.03	0.0	6.230	0.065	0	0	0	44
PL.5632	PL.5631	B	6 A (CWC)	7.43Y	123.8	0.00	1.19	0.39	0	3	1	95	0.00	0.0	6.288	0.059	3	1	2	2
PL.5633	PL.5631	B	6 A (CWC)	7.43Y	123.8	0.02	1.21	13.55	10	98	21	98	0.01	0.0	6.254	0.025	0	0	0	42
PL.5635	PL.5633	B	#4 ACSR	7.42Y	123.7	0.07	1.27	11.45	9	83	18	98	0.04	0.1	6.390	0.135	0	0	0	30
PL.5636	PL.5635	B	#1/0 ACSR	7.42Y	123.7	0.00	1.27	0.03	0	0	0	100	0.00	0.0	6.433	0.044	0	0	1	1
PL.5796	PL.5635	B	#4 ACSR	7.42Y	123.7	0.06	1.33	11.42	9	83	18	98	0.04	0.0	6.507	0.117	3	1	1	29
PL.6438	PL.5796	B	6 A (CWC)	7.42Y	123.6	0.03	1.36	11.00	8	80	17	98	0.02	0.0	6.569	0.062	8	2	2	28
PL.6439	PL.6438	B	6 A (CWC)	7.42Y	123.6	0.01	1.37	9.89	7	72	15	98	0.00	0.0	6.593	0.024	17	4	3	26
PL.6437	PL.6439	B	6 A (CWC)	7.42Y	123.6	0.01	1.38	7.51	5	54	12	98	0.01	0.0	6.634	0.041	6	1	1	23
PL.6436	PL.6437	B	6 A (CWC)	7.42Y	123.6	0.02	1.40	6.73	5	49	10	98	0.01	0.0	6.697	0.063	0	0	0	22
PL.5641	PL.6436	B	#1/0 ACSR	7.42Y	123.6	0.00	1.40	2.13	1	15	3	98	0.00	0.0	6.720	0.023	7	1	1	2
PL.5642	PL.5641	B	#1/0 ACSR	7.42Y	123.6	0.00	1.40	1.16	1	8	2	97	0.00	0.0	6.822	0.102	8	2	1	1
PL.6031	PL.6436	B	6 A (CWC)	7.41Y	123.6	0.04	1.45	4.59	3	33	7	98	0.01	0.0	6.912	0.215	0	0	0	20
PL.5797	PL.6031	B	6 A (CWC)	7.41Y	123.5	0.01	1.45	1.23	1	9	2	98	0.00	0.0	7.026	0.115	0	0	0	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5647	PL.5797	B	6 A (CWC)	7.41Y	123.5	0.00	1.46	1.04	1	8	2	97	0.00	0.0	7.094	0.068	0	0	0	6
PL.5649	PL.5647	B	#2 ACSR	7.41Y	123.5	0.00	1.46	0.32	0	2	0	100	0.00	0.0	7.137	0.043	2	0	1	1
PL.5798	PL.5647	B	6 A (CWC)	7.41Y	123.5	0.00	1.46	0.72	1	5	1	98	0.00	0.0	7.191	0.097	0	0	0	5
PL.5799	PL.5798	B	6 A (CWC)	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	7.488	0.297	0	0	0	0
PD.1442-B	PL.5799	B	Open	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	7.488	0.297	0	0	0	0
PL.7252	PL.5798	B	#1/0 ACSR	7.41Y	123.5	0.00	1.46	0.42	0	3	1	95	0.00	0.0	7.254	0.063	3	1	1	1
PL.5650	PL.5798	B	6 A (CWC)	7.41Y	123.5	0.00	1.46	0.31	0	2	0	100	0.00	0.0	7.304	0.113	1	0	1	4
PL.6432	PL.5650	B	#2 ACSR	7.41Y	123.5	0.00	1.46	0.18	0	1	0	100	0.00	0.0	7.372	0.068	0	0	0	3
PL.6433	PL.6432	B	#2 ACSR	7.41Y	123.5	0.00	1.46	0.18	0	1	0	100	0.00	0.0	7.431	0.059	0	0	0	3
PL.5652	PL.6433	B	#1/0 ACSR	7.41Y	123.5	0.00	1.46	0.14	0	1	0	100	0.00	0.0	7.600	0.169	1	0	1	1
PL.5800	PL.6433	B	#2 ACSR	7.41Y	123.5	0.00	1.46	0.04	0	0	0	100	0.00	0.0	7.489	0.058	0	0	2	2
PL.5651	PL.5650	B	#2 ACSR	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	7.346	0.042	0	0	0	0
PL.5648	PL.5797	B	6 A (CWC)	7.41Y	123.5	0.00	1.45	0.19	0	1	0	100	0.00	0.0	7.110	0.084	1	0	1	1
PL.5643	PL.6031	B	6 A (CWC)	7.41Y	123.5	0.01	1.45	3.37	2	24	5	98	0.00	0.0	6.948	0.037	1	0	2	13
PL.6434	PL.5643	B	6 A (CWC)	7.41Y	123.5	0.01	1.46	3.22	2	23	5	98	0.00	0.0	7.009	0.061	5	1	1	11
PL.6435	PL.6434	B	6 A (CWC)	7.41Y	123.5	0.01	1.47	2.55	2	19	4	98	0.00	0.0	7.121	0.112	3	1	4	10
PL.5645	PL.6435	B	#4 ACSR	7.41Y	123.5	0.00	1.47	2.11	2	15	3	98	0.00	0.0	7.136	0.015	0	0	0	6
PL.5644	PL.5645	B	6 A (CWC)	7.41Y	123.5	0.01	1.48	2.11	2	15	3	98	0.00	0.0	7.211	0.075	2	0	2	6
PL.5646	PL.5644	B	#4 ACSR	7.41Y	123.5	0.00	1.48	1.89	1	14	3	98	0.00	0.0	7.285	0.074	6	1	1	4
PL.5710	PL.5646	B	#4 ACSR	7.41Y	123.5	0.00	1.48	0.06	0	0	0	100	0.00	0.0	7.320	0.035	0	0	1	1
PL.6517	PL.5646	B	#2 ACSR	7.41Y	123.5	0.00	1.49	0.99	1	7	2	96	0.00	0.0	7.330	0.046	0	0	1	2
PL.6518	PL.6517	B	#2 ACSR	7.41Y	123.5	0.00	1.49	0.97	1	7	1	99	0.00	0.0	7.429	0.099	7	1	1	1
PL.5634	PL.5633	B	6 A (CWC)	7.43Y	123.8	0.00	1.21	1.26	1	9	2	98	0.00	0.0	6.273	0.019	0	0	0	10
PL.5795	PL.5634	B	6 A (CWC)	7.43Y	123.8	0.00	1.21	0.82	1	6	1	99	0.00	0.0	6.283	0.010	6	1	2	2
PL.6453	PL.5634	B	6 A (CWC)	7.43Y	123.8	0.00	1.21	0.44	0	3	1	95	0.00	0.0	6.336	0.063	0	0	1	8
PL.6454	PL.6453	B	6 A (CWC)	7.43Y	123.8	0.00	1.21	0.44	0	3	1	95	0.00	0.0	6.406	0.069	0	0	0	7
PL.5637	PL.6454	B	6 A (CWC)	7.43Y	123.8	0.00	1.21	0.44	0	3	1	95	0.00	0.0	6.498	0.092	3	1	1	1
PL.6451	PL.6454	B	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	6.455	0.049	0	0	2	6
PL.6452	PL.6451	B	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	6.514	0.059	0	0	0	4
PL.6449	PL.6452	B	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	6.605	0.091	0	0	1	2
PL.6450	PL.6449	B	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	6.686	0.081	0	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6447	PL.6452	B	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	6.570	0.056	0	0	1	2
PL.6448	PL.6447	B	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	6.624	0.053	0	0	1	1
PL.5794	PL.5633	B	6 A (CWC)	7.43Y	123.8	0.00	1.21	0.84	1	6	1	99	0.00	0.0	6.275	0.020	6	1	2	2
PL.5630	PL.5629	B	6 A (CWC)	7.44Y	124.0	0.00	0.96	0.00	0	0	0	100	0.00	0.0	6.009	0.055	0	0	0	0
PL.6569	PL.7227	B	#4 ACSR	7.28Y	121.3	0.00	3.72	4.88	4	35	7	98	0.00	0.0	4.548	0.005	0	0	0	7
PD.1314	PL.6569	B	40T	7.28Y	121.3	0.00	3.72	4.88	0	35	7	98	0.00	0.0	4.548	0.005	0	0	0	7
PL.6570	PD.1314	B	#4 ACSR	7.28Y	121.3	0.00	3.72	4.88	4	35	7	98	0.00	0.0	4.557	0.009	6	1	1	7
PL.6173	PL.6570	B	#4 ACSR	7.28Y	121.3	0.01	3.73	4.02	3	29	6	98	0.00	0.0	4.620	0.063	4	1	2	6
PL.5623	PL.6173	B	#2 ACSR	7.28Y	121.3	0.00	3.73	2.76	2	20	4	98	0.00	0.0	4.673	0.053	20	4	2	2
PL.5624	PL.6173	B	#2 ACSR	7.28Y	121.3	0.00	3.73	0.77	0	5	1	98	0.00	0.0	4.666	0.046	5	1	1	2
PL.5625	PL.5624	B	#2 ACSR	7.28Y	121.3	0.00	3.73	0.08	0	1	0	100	0.00	0.0	4.714	0.048	1	0	1	1
PL.6567	PL.5588	C	6 A (CWC)	7.28Y	121.4	0.00	3.65	0.34	0	2	1	89	0.00	0.0	4.312	0.005	0	0	0	1
PD.1313	PL.6567	C	65T	7.28Y	121.4	0.00	3.65	0.34	0	2	1	89	0.00	0.0	4.312	0.005	0	0	0	1
PL.6568	PD.1313	C	6 A (CWC)	7.28Y	121.4	0.00	3.65	0.34	0	2	1	89	0.00	0.0	4.500	0.188	2	1	1	1
PL.6171	PL.6568	C	6 A (CWC)	7.28Y	121.4	0.00	3.65	0.00	0	0	0	100	0.00	0.0	4.536	0.036	0	0	0	0
PL.5589	PL.5601	B	#1/0 ACSR	7.28Y	121.4	0.04	3.61	13.69	6	98	21	98	0.03	0.0	4.215	0.127	0	0	0	16
PL.6809	PL.5589	B	6 A (CWC)	7.28Y	121.4	0.03	3.65	12.90	9	92	20	98	0.02	0.0	4.274	0.059	0	0	0	14
PD.1444	PL.6809	B	50L	7.28Y	121.4	0.00	3.65	12.90	26	92	20	98	0.00	0.0	4.274	0.059	0	0	0	14
PL.6810	PD.1444	B	6 A (CWC)	7.28Y	121.3	0.03	3.68	12.90	9	92	20	98	0.02	0.0	4.334	0.060	0	0	0	14
PL.5779	PL.6810	B	6 A (CWC)	7.28Y	121.3	0.04	3.72	12.90	9	92	20	98	0.03	0.0	4.397	0.063	0	0	0	14
PL.6198	PL.5779	B	6 A (CWC)	7.28Y	121.3	0.02	3.74	12.90	9	92	20	98	0.02	0.0	4.437	0.040	0	0	0	14
PL.6199	PL.6198	B	6 A (CWC)	7.27Y	121.2	0.05	3.79	12.90	9	92	20	98	0.03	0.0	4.522	0.085	12	2	1	14
PL.6196	PL.6199	B	6 A (CWC)	7.27Y	121.2	0.01	3.80	11.24	8	80	17	98	0.01	0.0	4.540	0.018	8	2	1	13
PL.6197	PL.6196	B	6 A (CWC)	7.27Y	121.1	0.06	3.86	10.11	7	72	15	98	0.04	0.0	4.684	0.144	1	0	1	12
PL.6195	PL.6197	B	6 A (CWC)	7.26Y	121.0	0.15	4.01	9.94	7	71	15	98	0.08	0.1	5.020	0.336	0	0	0	11
PL.5592	PL.6195	B	6 A (CWC)	7.25Y	120.8	0.23	4.24	9.94	7	71	15	98	0.12	0.2	5.524	0.504	0	0	0	11
PL.5594	PL.5592	B	6 A (CWC)	7.24Y	120.7	0.07	4.31	6.61	5	47	10	98	0.02	0.1	5.782	0.258	8	2	2	7
PL.5599	PL.5594	B	#4 ACSR	7.24Y	120.7	0.00	4.31	2.65	2	19	4	98	0.00	0.0	5.842	0.061	19	4	3	3
PL.5600	PL.5594	B	#4 ACSR	7.24Y	120.7	0.00	4.31	2.79	2	20	4	98	0.00	0.0	5.853	0.072	20	4	2	2
PL.5593	PL.5592	B	6 A (CWC)	7.24Y	120.7	0.04	4.27	3.33	2	24	5	98	0.01	0.0	5.761	0.238	0	0	0	4
PL.6149	PL.5593	B	6 A (CWC)	7.24Y	120.7	0.00	4.27	0.19	0	1	0	100	0.00	0.0	5.825	0.063	1	0	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PL.6150	PL.6149	B	6 A (CWC)	7.24Y	120.7	0.00	4.27	0.07	0	0	0	100	0.00	0.0	5.918	0.093	0	0	1	1
PL.5596	PL.5593	B	#1/0 ACSR	7.24Y	120.7	0.00	4.27	3.14	1	22	5	98	0.00	0.0	5.806	0.044	0	0	0	2
PL.5597	PL.5596	B	#1/0 ACSR	7.24Y	120.7	0.00	4.28	1.72	1	12	3	97	0.00	0.0	5.916	0.110	12	3	1	1
PL.5780	PL.5596	B	#1/0 ACSR	7.24Y	120.7	0.00	4.28	1.43	1	10	2	98	0.00	0.0	5.900	0.094	10	2	1	1
PL.5591	PL.6810	B	#4 ACSR	7.28Y	121.3	0.00	3.68	0.00	0	0	0	100	0.00	0.0	4.497	0.163	0	0	0	0
PL.5590	PL.5589	B	#4 ACSR	7.28Y	121.4	0.00	3.61	0.80	1	6	1	99	0.00	0.0	4.234	0.019	6	1	2	2
PL.6791	PL.6201	ABC	#1/0 ACSR	7.30Y	121.7	0.00	3.35	8.65	4	185	39	98	0.00	0.0	3.652	0.005	0	0	0	39
PD.1434	PL.6791	ABC	65T	7.30Y	121.7	0.00	3.35	8.65	0	185	39	98	0.00	0.0	3.652	0.005	0	0	0	39
PL.6792	PD.1434	ABC	#1/0 ACSR	7.30Y	121.6	0.01	3.36	8.65	4	185	39	98	0.02	0.0	3.742	0.090	0	0	1	39
PL.6204	PL.6792	ABC	#1/0 ACSR	7.30Y	121.6	0.01	3.37	8.03	3	172	36	98	0.01	0.0	3.812	0.070	0	0	0	36
PL.6205	PL.6204	ABC	#1/0 ACSR	7.30Y	121.6	0.00	3.37	8.03	3	172	36	98	0.01	0.0	3.848	0.036	7	1	1	36
PL.6206	PL.6205	ABC	#1/0 ACSR	7.30Y	121.6	0.00	3.38	7.72	3	165	35	98	0.01	0.0	3.880	0.032	0	0	0	35
PL.6080	PL.6206	ABC	#1/0 ACSR	7.30Y	121.6	0.01	3.38	7.72	3	165	35	98	0.01	0.0	3.924	0.044	2	1	1	35
PL.6571	PL.6080	C	#1/0 ACSR	7.30Y	121.6	0.00	3.38	0.99	0	7	1	99	0.00	0.0	3.928	0.004	0	0	0	1
PD.1315	PL.6571	C	40T	7.30Y	121.6	0.00	3.38	0.99	0	7	1	99	0.00	0.0	3.928	0.004	0	0	0	1
PL.6572	PD.1315	C	#1/0 ACSR	7.30Y	121.6	0.00	3.39	0.99	0	7	1	99	0.00	0.0	3.971	0.043	7	1	1	1
PL.6773	PL.6080	A	#1/0 ACSR	7.30Y	121.6	0.00	3.38	0.81	0	6	1	99	0.00	0.0	3.929	0.005	0	0	0	2
PD.1424	PL.6773	A	40T	7.30Y	121.6	0.00	3.38	0.81	0	6	1	99	0.00	0.0	3.929	0.005	0	0	0	2
PL.6774	PD.1424	A	#1/0 ACSR	7.30Y	121.6	0.00	3.39	0.81	0	6	1	99	0.00	0.0	3.954	0.025	6	1	2	2
PL.6215	PL.6080	ABC	#1/0 ACSR	7.30Y	121.6	0.00	3.39	7.01	3	150	32	98	0.00	0.0	3.959	0.035	17	4	2	31
PL.6216	PL.6215	ABC	#1/0 ACSR	7.30Y	121.6	0.00	3.39	6.19	3	133	28	98	0.00	0.0	3.986	0.027	0	0	0	29
PL.6581	PL.6216	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	11.77	7	84	18	98	0.00	0.0	3.991	0.005	0	0	0	21
PD.1321	PL.6581	C	40T	7.30Y	121.6	0.00	3.39	11.77	0	84	18	98	0.00	0.0	3.991	0.005	0	0	0	21
PL.6582	PD.1321	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	11.77	7	84	18	98	0.00	0.0	3.995	0.004	0	0	0	21
PL.6075	PL.6582	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	11.77	7	84	18	98	0.00	0.0	3.997	0.002	0	0	0	21
PL.5719	PL.6075	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	11.77	7	84	18	98	0.00	0.0	4.002	0.006	0	0	0	21
PL.6073	PL.5719	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	11.77	7	84	18	98	0.00	0.0	4.011	0.008	0	0	0	21
PL.5720	PL.6073	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	11.77	7	84	18	98	0.00	0.0	4.020	0.010	0	0	0	21
PL.5514	PL.5720	C	1/0 AL URD	7.30Y	121.6	0.01	3.41	11.77	7	84	18	98	0.00	0.0	4.034	0.014	0	0	0	21
PL.5721	PL.5514	C	1/0 AL URD	7.30Y	121.6	0.00	3.41	11.77	7	84	18	98	0.00	0.0	4.037	0.003	0	0	0	21
PL.5510	PL.5721	C	1/0 AL URD	7.30Y	121.6	0.00	3.41	11.77	7	84	18	98	0.00	0.0	4.041	0.003	0	0	0	21

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5722	PL.5510	C	1/0 AL URD	7.30Y	121.6	0.00	3.41	11.77	7	84	18	98	0.00	0.0	4.042	0.002	6	1	1	21
PL.5579	PL.5722	C	1/0 AL URD	7.30Y	121.6	0.00	3.41	10.87	6	78	16	98	0.00	0.0	4.047	0.005	0	0	0	20
PL.5580	PL.5579	C	1/0 AL URD	7.30Y	121.6	0.00	3.42	10.87	6	78	16	98	0.00	0.0	4.055	0.008	0	0	0	20
PL.5581	PL.5580	C	1/0 AL URD	7.29Y	121.6	0.00	3.42	10.87	6	78	16	98	0.00	0.0	4.057	0.002	0	0	0	20
PL.6068	PL.5581	C	1/0 AL URD	7.29Y	121.6	0.00	3.42	10.87	6	78	16	98	0.00	0.0	4.066	0.009	0	0	0	20
PL.6065	PL.6068	C	1/0 AL URD	7.29Y	121.6	0.01	3.43	10.87	6	78	16	98	0.00	0.0	4.081	0.015	0	0	0	20
PL.6066	PL.6065	C	1/0 AL URD	7.29Y	121.6	0.00	3.43	0.49	0	3	1	95	0.00	0.0	4.085	0.004	0	0	0	1
PL.6579	PL.6066	C	#1/0 ACSR	7.29Y	121.6	0.00	3.43	0.49	0	3	1	95	0.00	0.0	4.090	0.005	0	0	0	1
PD.1320	PL.6579	C	25T	7.29Y	121.6	0.00	3.43	0.49	0	3	1	95	0.00	0.0	4.090	0.005	0	0	0	1
PL.6580	PD.1320	C	#1/0 ACSR	7.29Y	121.6	0.00	3.43	0.49	0	3	1	95	0.00	0.0	4.134	0.044	3	1	1	1
PL.5305	PL.6065	C	1/0 AL URD	7.29Y	121.6	0.01	3.44	10.38	6	74	16	98	0.01	0.0	4.123	0.042	0	0	0	19
PL.6063	PL.5305	C	1/0 AL URD	7.29Y	121.6	0.00	3.44	10.38	6	74	16	98	0.00	0.0	4.133	0.009	0	0	0	19
PL.6064	PL.6063	C	1/0 AL URD	7.29Y	121.6	0.00	3.44	10.38	6	74	16	98	0.00	0.0	4.134	0.001	0	0	0	19
PL.6521	PL.6064	C	1/0 AL URD	7.29Y	121.6	0.00	3.44	10.38	6	74	16	98	0.00	0.0	4.140	0.007	22	5	5	19
PL.6522	PL.6521	C	1/0 AL URD	7.29Y	121.6	0.00	3.45	7.26	4	52	11	98	0.00	0.0	4.144	0.004	0	0	0	14
PL.6061	PL.6522	C	1/0 AL URD	7.29Y	121.6	0.00	3.45	7.26	4	52	11	98	0.00	0.0	4.150	0.006	0	0	0	14
PL.5306	PL.6061	C	1/0 AL URD	7.29Y	121.6	0.00	3.45	7.26	4	52	11	98	0.00	0.0	4.157	0.007	0	0	0	14
PL.5307	PL.5306	C	1/0 AL URD	7.29Y	121.5	0.00	3.45	7.26	4	52	11	98	0.00	0.0	4.169	0.012	0	0	0	14
PL.5308	PL.5307	C	1/0 AL URD	7.29Y	121.5	0.00	3.45	7.26	4	52	11	98	0.00	0.0	4.174	0.005	0	0	0	14
PL.6057	PL.5308	C	1/0 AL URD	7.29Y	121.5	0.00	3.45	7.26	4	52	11	98	0.00	0.0	4.181	0.007	0	0	0	14
PL.6058	PL.6057	C	1/0 AL URD	7.29Y	121.5	0.00	3.45	7.26	4	52	11	98	0.00	0.0	4.182	0.001	0	0	0	14
PL.6523	PL.6058	C	1/0 AL URD	7.29Y	121.5	0.00	3.45	7.26	4	52	11	98	0.00	0.0	4.186	0.004	11	2	4	14
PL.6524	PL.6523	C	1/0 AL URD	7.29Y	121.5	0.00	3.46	5.65	3	40	9	98	0.00	0.0	4.192	0.006	0	0	0	10
PL.6055	PL.6524	C	1/0 AL URD	7.29Y	121.5	0.00	3.46	5.65	3	40	9	98	0.00	0.0	4.204	0.012	0	0	0	10
PL.6056	PL.6055	C	1/0 AL URD	7.29Y	121.5	0.00	3.46	5.65	3	40	9	98	0.00	0.0	4.205	0.001	0	0	0	10
PL.6525	PL.6056	C	1/0 AL URD	7.29Y	121.5	0.00	3.46	5.65	3	40	9	98	0.00	0.0	4.211	0.005	14	3	4	10
PL.6526	PL.6525	C	1/0 AL URD	7.29Y	121.5	0.00	3.46	3.64	2	26	5	98	0.00	0.0	4.219	0.008	0	0	0	6
PL.6052	PL.6526	C	1/0 AL URD	7.29Y	121.5	0.00	3.46	3.64	2	26	5	98	0.00	0.0	4.256	0.037	0	0	0	6
PL.6053	PL.6052	C	1/0 AL URD	7.29Y	121.5	0.00	3.46	3.64	2	26	5	98	0.00	0.0	4.257	0.001	0	0	0	6
PL.6527	PL.6053	C	1/0 AL URD	7.29Y	121.5	0.00	3.47	3.64	2	26	5	98	0.00	0.0	4.277	0.020	8	2	1	6
PL.6528	PL.6527	C	1/0 AL URD	7.29Y	121.5	0.00	3.47	2.46	1	18	4	98	0.00	0.0	4.285	0.008	0	0	0	5

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5566	PL.6528	C	1/0 AL URD	7.29Y	121.5	0.00	3.47	2.46	1	18	4	98	0.00	0.0	4.295	0.010	0	0	0	5
PL.5567	PL.5566	C	1/0 AL URD	7.29Y	121.5	0.00	3.47	2.46	1	18	4	98	0.00	0.0	4.320	0.026	0	0	0	5
PL.6046	PL.5567	C	1/0 AL URD	7.29Y	121.5	0.00	3.47	2.46	1	18	4	98	0.00	0.0	4.363	0.042	0	0	0	5
PL.6047	PL.6046	C	1/0 AL URD	7.29Y	121.5	0.00	3.47	2.46	1	18	4	98	0.00	0.0	4.364	0.001	0	0	0	5
PL.6042	PL.6047	C	1/0 AL URD	7.29Y	121.5	0.00	3.47	2.46	1	18	4	98	0.00	0.0	4.371	0.007	0	0	0	5
PL.6043	PL.6042	C	1/0 AL URD	7.29Y	121.5	0.00	3.47	2.46	1	18	4	98	0.00	0.0	4.375	0.005	0	0	0	5
PL.5723	PL.6043	C	1/0 AL URD	7.29Y	121.5	0.00	3.47	0.38	0	3	1	95	0.00	0.0	4.379	0.004	3	1	1	1
PL.5568	PL.6043	C	1/0 AL URD	7.29Y	121.5	0.01	3.48	2.08	1	15	3	98	0.00	0.0	4.505	0.130	0	0	0	4
PL.5573	PL.5568	C	1/0 AL URD	7.29Y	121.5	0.00	3.48	0.06	0	0	0	100	0.00	0.0	4.507	0.002	0	0	1	1
PL.5574	PL.5568	C	1/0 AL URD	7.29Y	121.5	0.00	3.48	2.02	1	14	3	98	0.00	0.0	4.515	0.010	0	0	0	3
PL.5575	PL.5574	C	1/0 AL URD	7.29Y	121.5	0.00	3.48	2.02	1	14	3	98	0.00	0.0	4.549	0.034	0	0	0	3
PL.6036	PL.5575	C	1/0 AL URD	7.29Y	121.5	0.00	3.49	2.02	1	14	3	98	0.00	0.0	4.590	0.041	0	0	0	3
PL.6037	PL.6036	C	1/0 AL URD	7.29Y	121.5	0.00	3.49	2.02	1	14	3	98	0.00	0.0	4.591	0.001	0	0	0	3
PL.5576	PL.6037	C	1/0 AL URD	7.29Y	121.5	0.00	3.49	2.02	1	14	3	98	0.00	0.0	4.601	0.010	11	2	2	3
PL.5577	PL.5576	C	1/0 AL URD	7.29Y	121.5	0.00	3.49	0.43	0	3	1	95	0.00	0.0	4.612	0.011	0	0	0	1
PL.6040	PL.5577	C	1/0 AL URD	7.29Y	121.5	0.00	3.49	0.43	0	3	1	95	0.00	0.0	4.644	0.032	0	0	0	1
PL.6041	PL.6040	C	1/0 AL URD	7.29Y	121.5	0.00	3.49	0.43	0	3	1	95	0.00	0.0	4.645	0.002	0	0	0	1
PL.5578	PL.6041	C	1/0 AL URD	7.29Y	121.5	0.00	3.49	0.43	0	3	1	95	0.00	0.0	4.652	0.007	3	1	1	1
PL.6077	PL.6216	ABC	#1/0 ACSR	7.30Y	121.6	0.00	3.39	2.27	1	49	10	98	0.00	0.0	4.013	0.027	11	2	1	8
PL.6078	PL.6077	ABC	#1/0 ACSR	7.30Y	121.6	0.00	3.39	1.48	1	32	7	98	0.00	0.0	4.090	0.077	0	0	0	6
PL.5583	PL.6078	ABC	#3/0 ACSR	7.30Y	121.6	0.00	3.39	1.08	0	23	5	98	0.00	0.0	4.097	0.006	0	0	0	4
PL.6799	PL.5583	ABC	1/0 AL URD	7.30Y	121.6	0.00	3.39	1.08	1	23	5	98	0.00	0.0	4.101	0.005	0	0	0	4
PD.1438	PL.6799	ABC	40T	7.30Y	121.6	0.00	3.39	1.08	0	23	5	98	0.00	0.0	4.101	0.005	0	0	0	4
PL.6800	PD.1438	ABC	1/0 AL URD	7.30Y	121.6	0.00	3.40	1.08	1	23	5	98	0.00	0.0	4.162	0.061	0	0	0	4
PL.5584	PL.6800	A	1/0 AL URD	7.30Y	121.6	0.00	3.40	1.29	1	9	2	98	0.00	0.0	4.187	0.025	9	2	2	2
PL.6085	PL.6800	ABC	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.65	0	14	3	98	0.00	0.0	4.299	0.137	0	0	0	2
PL.5587	PL.6085	ABC	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.50	0	11	2	98	0.00	0.0	4.411	0.112	0	0	0	1
PL.5585	PL.5587	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	1.49	1	11	2	98	0.00	0.0	4.512	0.101	11	2	1	1
PL.6086	PL.6085	ABC	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.16	0	3	1	95	0.00	0.0	4.365	0.066	0	0	0	1
PL.5586	PL.6086	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.47	0	3	1	95	0.00	0.0	4.392	0.027	3	1	1	1
PL.5582	PL.6078	C	#2/0 ACSR	7.30Y	121.6	0.00	3.39	1.20	0	9	2	98	0.00	0.0	4.095	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PD.1316	PL.5582	C	40T	7.30Y	121.6	0.00	3.39	1.20	0	9	2	98	0.00	0.0	4.095	0.005	0	0	0	2
PL.5822	PD.1316	C	#2/0 ACSR	7.30Y	121.6	0.00	3.40	1.20	0	9	2	98	0.00	0.0	4.162	0.067	8	2	1	2
PL.6220	PL.5822	C	#1/0 ACSR	7.30Y	121.6	0.00	3.40	0.10	0	1	0	100	0.00	0.0	4.293	0.131	1	0	1	1
PL.28280	PL.6220	C	#1/0 ACSR	7.30Y	121.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	4.366	0.073	0	0	0	0
PL.6583	PL.6077	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	0.88	1	6	1	99	0.00	0.0	4.018	0.005	0	0	0	1
PD.1322	PL.6583	C	40T	7.30Y	121.6	0.00	3.39	0.88	0	6	1	99	0.00	0.0	4.018	0.005	0	0	0	1
PL.6584	PD.1322	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	0.88	1	6	1	99	0.00	0.0	4.028	0.011	0	0	0	1
PL.6071	PL.6584	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	0.88	1	6	1	99	0.00	0.0	4.041	0.013	0	0	0	1
PL.6072	PL.6071	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	0.88	1	6	1	99	0.00	0.0	4.042	0.001	0	0	0	1
PL.5303	PL.6072	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	0.88	1	6	1	99	0.00	0.0	4.059	0.017	0	0	0	1
PL.5512	PL.5303	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	0.88	1	6	1	99	0.00	0.0	4.067	0.009	0	0	0	1
PL.5513	PL.5512	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	0.88	1	6	1	99	0.00	0.0	4.072	0.005	0	0	0	1
PL.5507	PL.5513	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	0.88	1	6	1	99	0.00	0.0	4.082	0.009	0	0	0	1
PL.5504	PL.5507	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	0.88	1	6	1	99	0.00	0.0	4.092	0.010	0	0	0	1
PL.6067	PL.5504	C	1/0 AL URD	7.30Y	121.6	0.00	3.39	0.88	1	6	1	99	0.00	0.0	4.093	0.001	0	0	0	1
PL.5304	PL.6067	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.100	0.007	0	0	0	1
PL.5714	PL.5304	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.105	0.005	0	0	0	1
PL.5715	PL.5714	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.155	0.050	0	0	0	1
PL.5716	PL.5715	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.191	0.036	0	0	0	1
PL.6059	PL.5716	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.208	0.017	0	0	0	1
PL.6060	PL.6059	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.210	0.002	0	0	0	1
PL.5717	PL.6060	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.244	0.034	0	0	0	1
PL.5569	PL.5717	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.265	0.021	0	0	0	1
PL.5570	PL.5569	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.308	0.043	0	0	0	1
PL.6048	PL.5570	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.344	0.037	0	0	0	1
PL.6049	PL.6048	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.346	0.001	0	0	0	1
PL.6044	PL.6049	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.369	0.023	0	0	0	1
PL.6045	PL.6044	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.370	0.001	0	0	0	1
PL.5571	PL.6045	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.442	0.072	0	0	0	1
PL.5572	PL.5571	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.88	1	6	1	99	0.00	0.0	4.446	0.004	6	1	1	1
PL.5724	PL.5572	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	4.469	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5725	PL.5724	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	4.518	0.049	0	0	0	0
PL.5726	PL.5725	C	1/0 AL URD	7.30Y	121.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	4.525	0.008	0	0	0	0
PL.5301	PL.6792	A	#4 ACSR	7.30Y	121.6	0.00	3.36	1.79	1	13	3	97	0.00	0.0	3.747	0.005	0	0	0	2
PD.1388	PL.5301	A	40T	7.30Y	121.6	0.00	3.36	1.79	0	13	3	97	0.00	0.0	3.747	0.005	0	0	0	2
PL.5776	PD.1388	A	#4 ACSR	7.30Y	121.6	0.00	3.36	0.69	1	5	1	98	0.00	0.0	3.779	0.033	5	1	1	1
PL.6081	PD.1388	A	#4 ACSR	7.30Y	121.6	0.00	3.36	1.10	1	8	2	97	0.00	0.0	3.757	0.011	0	0	0	1
PL.5302	PL.6081	A	#4 ACSR	7.30Y	121.6	0.00	3.36	1.10	1	8	2	97	0.00	0.0	3.842	0.085	8	2	1	1
PL.6519	PL.6238	ABC	#4 ACSR	7.37Y	122.8	0.00	2.20	0.31	0	7	2	96	0.00	0.0	2.357	0.047	2	1	1	2
PL.6520	PL.6519	ABC	#4 ACSR	7.37Y	122.8	0.00	2.20	0.24	0	5	1	98	0.00	0.0	2.417	0.060	5	1	1	1
PL.5495	PL.6520	C	#4 ACSR	7.37Y	122.8	0.00	2.20	0.00	0	0	0	100	0.00	0.0	2.439	0.021	0	0	0	0
PL.5496	PL.5495	C	#4 ACSR	7.37Y	122.8	0.00	2.20	0.00	0	0	0	100	0.00	0.0	2.496	0.057	0	0	0	0
PL.6601	PL.5767	C	6 A (CWC)	7.38Y	123.0	0.00	1.98	0.32	0	2	0	100	0.00	0.0	2.092	0.005	0	0	0	1
PD.1331	PL.6601	C	65T	7.38Y	123.0	0.00	1.98	0.32	0	2	0	100	0.00	0.0	2.092	0.005	0	0	0	1
PL.6602	PD.1331	C	6 A (CWC)	7.38Y	123.0	0.00	1.98	0.32	0	2	0	100	0.00	0.0	2.121	0.029	2	0	1	1
PL.6603	PL.6240	A	#1/0 ACSR	7.39Y	123.1	0.00	1.87	0.77	0	6	1	99	0.00	0.0	1.990	0.005	0	0	0	1
PD.1332	PL.6603	A	65T	7.39Y	123.1	0.00	1.87	0.77	0	6	1	99	0.00	0.0	1.990	0.005	0	0	0	1
PL.6604	PD.1332	A	#1/0 ACSR	7.39Y	123.1	0.00	1.87	0.77	0	6	1	99	0.00	0.0	2.026	0.036	6	1	1	1
PL.6605	PL.5371	C	#4 ACSR	7.40Y	123.4	0.00	1.60	8.10	6	59	12	98	0.00	0.0	1.761	0.005	0	0	0	10
PD.1333	PL.6605	C	65T	7.40Y	123.4	0.00	1.60	8.10	0	59	12	98	0.00	0.0	1.761	0.005	0	0	0	10
PL.6606	PD.1333	C	#4 ACSR	7.40Y	123.4	0.01	1.62	8.10	6	59	12	98	0.01	0.0	1.805	0.044	9	2	1	10
PL.5473	PL.6606	C	6 A (CWC)	7.40Y	123.4	0.00	1.62	3.22	2	23	5	98	0.00	0.0	1.844	0.039	23	5	4	4
PL.6246	PL.6606	C	6 A (CWC)	7.40Y	123.4	0.00	1.62	0.36	0	3	1	95	0.00	0.0	1.852	0.048	0	0	1	2
PL.6247	PL.6246	C	6 A (CWC)	7.40Y	123.4	0.00	1.62	0.36	0	3	1	95	0.00	0.0	1.873	0.020	3	1	1	1
PL.6013	PL.6606	C	#4 ACSR	7.40Y	123.4	0.00	1.62	1.89	1	14	3	98	0.00	0.0	1.855	0.050	0	0	0	2
PL.5480	PL.6013	C	#1/0 ACSR	7.40Y	123.4	0.00	1.62	1.89	1	14	3	98	0.00	0.0	1.871	0.016	14	3	2	2
PL.5369	PL.6606	C	#4 ACSR	7.40Y	123.4	0.00	1.62	1.36	1	10	2	98	0.00	0.0	1.847	0.043	10	2	1	1
PL.5363	OH6	C	#4 ACSR	7.43Y	123.8	0.00	1.16	0.77	1	6	1	99	0.00	0.0	1.314	0.059	6	1	3	3
PL.5364	OH6	C	6 A (CWC)	7.43Y	123.8	0.00	1.16	0.95	1	7	1	99	0.00	0.0	1.298	0.043	7	1	1	1
PL.6254	OH4	C	#2 ACSR	7.43Y	123.9	0.00	1.13	2.03	1	15	3	98	0.00	0.0	1.250	0.030	1	0	1	5
PL.6255	PL.6254	C	#2 ACSR	7.43Y	123.9	0.00	1.14	1.91	1	14	3	98	0.00	0.0	1.294	0.044	4	1	2	4
PL.6253	PL.6255	C	#2 ACSR	7.43Y	123.9	0.00	1.14	1.30	1	9	2	98	0.00	0.0	1.348	0.054	9	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.4913	PL.4893	C	#4 ACSR	7.45Y	124.2	0.01	0.83	5.05	4	37	8	98	0.00	0.0	0.890	0.024	0	0	0	1
PL.4490	PL.4913	C	#4 ACSR	7.45Y	124.2	0.00	0.83	5.05	4	37	8	98	0.00	0.0	0.893	0.004	0	0	0	1
PD.916	PL.4490	C	65T	7.45Y	124.2	0.00	0.83	5.05	0	37	8	98	0.00	0.0	0.893	0.004	0	0	0	1
PL.4491	PD.916	C	#4 ACSR	7.45Y	124.1	0.02	0.85	5.05	4	37	8	98	0.01	0.0	0.984	0.090	0	0	0	1
PL.4898	PL.4491	C	#4 ACSR	7.45Y	124.1	0.02	0.87	5.05	4	37	8	98	0.01	0.0	1.073	0.090	0	0	0	1
PL.4899	PL.4898	C	#4 ACSR	7.45Y	124.1	0.01	0.88	5.05	4	37	8	98	0.00	0.0	1.179	0.106	37	8	1	1
PL.4887	PL.4902	ABC	#4/0 ACSR	7.46Y	124.3	0.01	0.69	6.02	2	121	59	90	0.01	0.0	0.823	0.118	0	0	0	2
PL.4488	PL.4887	C	#2 ACSR	7.46Y	124.3	0.00	0.69	0.01	0	0	0	100	0.00	0.0	0.826	0.004	0	0	0	1
PD.915	PL.4488	C	65T	7.46Y	124.3	0.00	0.69	0.01	0	0	0	100	0.00	0.0	0.826	0.004	0	0	0	1
PL.4489	PD.915	C	#2 ACSR	7.46Y	124.3	0.00	0.69	0.01	0	0	0	100	0.00	0.0	0.958	0.132	0	0	1	1
PL.4894	PL.4887	ABC	#4/0 ACSR	7.46Y	124.3	0.00	0.69	6.02	2	121	59	90	0.00	0.0	0.893	0.071	121	59	1	1
PL.4886	PL.4901	ABC	#2 ACSR	7.46Y	124.4	0.00	0.60	0.06	0	1	1	71	0.00	0.0	0.635	0.017	1	1	1	1
PL.4480	PL.4912	ABC	#2 ACSR	7.48Y	124.6	0.00	0.41	0.29	0	6	1	99	0.00	0.0	0.427	0.003	0	0	0	2
PD.911	PL.4480	ABC	65T	7.48Y	124.6	0.00	0.41	0.29	0	6	1	99	0.00	0.0	0.427	0.003	0	0	0	2
PL.4481	PD.911	ABC	#2 ACSR	7.48Y	124.6	0.00	0.41	0.29	0	6	1	99	0.00	0.0	0.461	0.034	0	0	1	2
PL.4900	PL.4481	ABC	#2 ACSR	7.48Y	124.6	0.00	0.42	0.27	0	6	1	99	0.00	0.0	0.463	0.002	6	1	1	1
PL.4925	Greenbriar	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	98.85	19	1999	974	90	0.06	0.0	0.008	0.008	0	0	0	2
PL.7524	PL.4925	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	98.85	19	1999	974	90	0.01	0.0	0.009	0.002	0	0	0	2

----- Feeder No. 1 (Fed Prison F1) Beginning with Device PD.1906 -----

PD.1906	PL.7524	ABC	480VWE	7.50Y	125.0	0.00	0.01	98.85	0	1999	974	90	0.00	0.0	0.009	0.002	0	0	0	2
PL.7525	PD.1906	ABC	336 MCM AC	7.50Y	125.0	0.01	0.02	98.85	19	1999	974	90	0.06	0.0	0.017	0.008	0	0	0	2
PL.4881	PL.7525	ABC	336 MCM AC	7.50Y	125.0	0.01	0.03	98.85	19	1999	974	90	0.11	0.0	0.031	0.014	0	0	0	2
PL.4878	PL.4881	ABC	336 MCM AC	7.49Y	124.8	0.13	0.16	98.85	19	1999	974	90	1.20	0.1	0.177	0.146	0	0	0	2
PL.4876	PL.4878	ABC	336 MCM AC	7.49Y	124.8	0.07	0.23	98.85	19	1998	971	90	0.63	0.0	0.254	0.077	0	0	0	2
PL.4879	PL.4876	ABC	336 MCM AC	7.48Y	124.7	0.11	0.33	98.85	19	1997	969	90	1.01	0.1	0.377	0.123	0	0	0	2
PL.4478	PL.4879	ABC	350 MCM AL	7.48Y	124.7	0.00	0.33	0.54	0	11	5	91	0.00	0.0	0.377	0.001	0	0	0	1
PD.910	PL.4478	ABC	65T	7.48Y	124.7	0.00	0.33	0.54	0	11	5	91	0.00	0.0	0.377	0.001	0	0	0	1
PL.4479	PD.910	ABC	350 MCM AL	7.48Y	124.7	0.00	0.33	0.54	0	11	5	91	0.00	0.0	0.379	0.002	11	5	1	1
PL.4880	PL.4879	ABC	336 MCM AC	7.48Y	124.7	0.01	0.34	98.31	19	1985	962	90	0.05	0.0	0.383	0.006	0	0	0	1

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PL.72522	PL.4880	ABC	336 MCM AC	7.48Y	124.7	0.00	0.34	98.31	19	1985	962	90	0.00	0.0	0.385	0.002	1985	962	1	1
CP.112	PL.4880	ABC	Cap (300)	7.48Y	124.7	0.00	0.34	0.00	0	0	0	100	0.00	0.0	0.383	0.002	0	0	0	0
PL.7120	Greenbriar	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	166.64	32	3618	985	96	0.23	0.0	0.010	0.010	0	0	0	616
PL.7526	PL.7120	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	166.64	32	3618	984	96	0.05	0.0	0.012	0.002	0	0	0	616
----- Feeder No. 2 (Island Creek F2) Beginning with Device PD.1907 -----																				
PD.1907	PL.7526	ABC	480VWE	7.50Y	125.0	0.00	0.01	166.64	0	3618	984	96	0.00	0.0	0.012	0.002	0	0	0	616
PL.7527	PD.1907	ABC	336 MCM AC	7.49Y	124.8	0.22	0.24	166.64	32	3618	984	96	4.23	0.1	0.193	0.181	1	0	1	616
PL.7184	PL.7527	C	#1/0 ACSR	7.49Y	124.8	0.00	0.24	0.97	0	7	2	96	0.00	0.0	0.194	0.001	0	0	0	1
PD.1538	PL.7184	C	65T	7.49Y	124.8	0.00	0.24	0.97	0	7	2	96	0.00	0.0	0.194	0.001	0	0	0	1
PL.7185	PD.1538	C	#1/0 ACSR	7.49Y	124.8	0.00	0.24	0.97	0	7	2	96	0.00	0.0	0.215	0.022	7	2	1	1
PL.6024	PL.7527	ABC	336 MCM AC	7.48Y	124.7	0.09	0.32	166.28	32	3605	973	97	1.66	0.0	0.264	0.071	0	0	0	614
PL.7182	PL.6024	ABC	#4 ACSR	7.48Y	124.7	0.00	0.32	2.82	2	57	28	90	0.00	0.0	0.264	0.000	0	0	0	1
PD.1537	PL.7182	ABC	65T	7.48Y	124.7	0.00	0.32	2.82	0	57	28	90	0.00	0.0	0.264	0.000	0	0	0	1
PL.7183	PD.1537	ABC	#4 ACSR	7.48Y	124.7	0.00	0.32	2.82	2	57	28	90	0.00	0.0	0.266	0.002	57	28	1	1
PL.21315	PL.7183	ABC	#4 ACSR	7.48Y	124.7	0.00	0.32	0.00	0	0	0	100	0.00	0.0	0.269	0.003	0	0	0	0
PL.21316	PL.21315	ABC	#4 ACSR	7.48Y	124.7	0.00	0.32	0.00	0	0	0	100	0.00	0.0	0.408	0.139	0	0	0	0
PL.21317	PL.21316	ABC	#4 ACSR	7.48Y	124.7	0.00	0.32	0.00	0	0	0	100	0.00	0.0	0.456	0.049	0	0	0	0
PL.21318	PL.21315	ABC	#4 ACSR	7.48Y	124.7	0.00	0.32	0.00	0	0	0	100	0.00	0.0	0.296	0.028	0	0	0	0
PL.21319	PL.21318	ABC	#4 ACSR	7.48Y	124.7	0.00	0.32	0.00	0	0	0	100	0.00	0.0	0.357	0.061	0	0	0	0
PL.6277	PL.6024	ABC	336 MCM AC	7.48Y	124.6	0.06	0.38	163.51	32	3547	941	97	1.14	0.0	0.315	0.051	0	0	1	613
PL.6278	PL.6277	ABC	336 MCM AC	7.47Y	124.6	0.05	0.44	163.51	32	3546	938	97	0.95	0.0	0.357	0.042	0	0	0	612
PL.6282	PL.6278	ABC	336 MCM AC	7.47Y	124.5	0.04	0.48	163.51	32	3545	936	97	0.84	0.0	0.394	0.037	2	0	2	612
PL.6283	PL.6282	ABC	336 MCM AC	7.47Y	124.5	0.04	0.52	163.42	31	3542	934	97	0.71	0.0	0.426	0.032	0	0	0	610
PL.6019	PL.6283	ABC	336 MCM AC	7.47Y	124.4	0.05	0.56	140.94	27	3077	712	97	0.78	0.0	0.473	0.047	4	1	4	603
PL.6629	PL.6019	A	#2 ACSR	7.47Y	124.4	0.00	0.56	3.42	2	25	5	98	0.00	0.0	0.477	0.005	0	0	0	4
PD.1345	PL.6629	A	65T	7.47Y	124.4	0.00	0.56	3.42	0	25	5	98	0.00	0.0	0.477	0.005	0	0	0	4
PL.6630	PD.1345	A	#2 ACSR	7.47Y	124.4	0.00	0.57	3.42	2	25	5	98	0.00	0.0	0.544	0.066	19	4	2	4
PL.5312	PL.6630	A	#2 ACSR	7.47Y	124.4	0.00	0.57	0.84	0	6	1	99	0.00	0.0	0.573	0.030	5	1	1	2
PL.5313	PL.5312	A	#1/0 ACSR	7.47Y	124.4	0.00	0.57	0.17	0	1	0	100	0.00	0.0	0.634	0.060	1	0	1	1

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6020	PL.6019	ABC	336 MCM AC	7.46Y	124.4	0.08	0.64	139.61	27	3047	704	97	1.33	0.0	0.554	0.081	4	1	2	595
PL.6621	PL.6020	A	6 A (CWC)	7.46Y	124.4	0.00	0.64	3.26	2	24	5	98	0.00	0.0	0.559	0.005	0	0	0	8
PD.1342	PL.6621	A	65T	7.46Y	124.4	0.00	0.64	3.26	0	24	5	98	0.00	0.0	0.559	0.005	0	0	0	8
PL.6622	PD.1342	A	6 A (CWC)	7.46Y	124.4	0.00	0.65	3.26	2	24	5	98	0.00	0.0	0.596	0.038	14	3	5	8
PL.6281	PL.6622	A	6 A (CWC)	7.46Y	124.4	0.00	0.65	1.33	1	10	2	98	0.00	0.0	0.654	0.057	10	2	3	3
PL.6838	PL.6020	ABC	336 MCM AC	7.46Y	124.3	0.01	0.66	138.35	27	3018	695	97	0.21	0.0	0.567	0.013	0	0	0	585
PL.7176	PL.6838	ABC	336 MCM AC	7.46Y	124.3	0.00	0.66	138.35	27	3018	695	97	0.06	0.0	0.571	0.004	0	0	0	585
PL.7177	PL.7176	ABC	336 MCM AC	7.46Y	124.3	0.05	0.70	138.35	27	3018	694	97	0.75	0.0	0.617	0.047	0	0	0	585
PL.6017	PL.7177	ABC	336 MCM AC	7.45Y	124.2	0.14	0.85	138.02	27	3010	691	97	2.39	0.1	0.766	0.149	0	0	0	581
PL.6018	PL.6017	ABC	336 MCM AC	7.45Y	124.1	0.01	0.85	138.02	27	3007	686	97	0.09	0.0	0.772	0.006	11	2	3	581
PL.6014	PL.6018	ABC	336 MCM AC	7.45Y	124.1	0.02	0.87	136.44	26	2972	678	97	0.30	0.0	0.791	0.019	0	0	0	574
PL.6824	PL.6014	C	6 A (CWC)	7.45Y	124.1	0.00	0.88	32.14	23	234	50	98	0.01	0.0	0.793	0.003	0	0	0	33
PD.1454	PL.6824	C	70L	7.45Y	124.1	0.00	0.88	32.14	46	234	50	98	0.00	0.0	0.793	0.003	0	0	0	33
PL.6825	PD.1454	C	6 A (CWC)	7.44Y	124.1	0.06	0.94	32.14	23	234	50	98	0.11	0.0	0.838	0.045	11	2	5	33
PL.6284	PL.6825	C	6 A (CWC)	7.44Y	123.9	0.12	1.06	30.57	22	223	48	98	0.20	0.1	0.929	0.091	10	2	2	28
PL.6285	PL.6284	C	6 A (CWC)	7.42Y	123.7	0.19	1.25	29.18	21	212	45	98	0.30	0.1	1.074	0.145	0	0	0	26
PL.5325	PL.6285	C	#2 ACSR	7.42Y	123.7	0.00	1.25	1.42	1	10	2	98	0.00	0.0	1.095	0.021	10	2	1	1
PL.5732	PL.6285	C	6 A (CWC)	7.41Y	123.5	0.22	1.47	27.76	20	202	43	98	0.33	0.2	1.257	0.183	12	3	1	25
PL.6287	PL.5732	C	6 A (CWC)	7.41Y	123.5	0.07	1.54	26.06	19	189	40	98	0.09	0.0	1.327	0.069	47	10	2	24
PL.6288	PL.6287	C	6 A (CWC)	7.40Y	123.4	0.08	1.62	19.63	14	142	30	98	0.08	0.1	1.412	0.086	1	0	1	22
PL.6289	PL.6288	C	6 A (CWC)	7.40Y	123.3	0.06	1.68	19.52	14	141	30	98	0.07	0.0	1.487	0.075	7	1	3	21
PL.6290	PL.6289	C	6 A (CWC)	7.40Y	123.3	0.02	1.70	18.62	13	135	29	98	0.02	0.0	1.511	0.023	13	3	2	18
PL.5326	PL.6290	C	6 A (CWC)	7.40Y	123.3	0.00	1.70	1.54	1	11	2	98	0.00	0.0	1.594	0.084	11	2	2	2
PL.6631	PL.6290	C	6 A (CWC)	7.40Y	123.3	0.00	1.70	15.22	11	110	23	98	0.00	0.0	1.515	0.005	0	0	0	14
PD.1346	PL.6631	C	30T	7.40Y	123.3	0.00	1.70	15.22	0	110	23	98	0.00	0.0	1.515	0.005	0	0	0	14
PL.6632	PD.1346	C	6 A (CWC)	7.39Y	123.2	0.05	1.75	15.22	11	110	23	98	0.04	0.0	1.590	0.075	5	1	2	14
PL.6291	PL.6632	C	6 A (CWC)	7.39Y	123.2	0.04	1.80	14.53	10	105	22	98	0.03	0.0	1.656	0.066	0	0	0	12
PL.5327	PL.6291	C	#2 ACSR	7.39Y	123.2	0.02	1.82	14.53	8	105	22	98	0.02	0.0	1.701	0.045	0	0	0	12
PL.5730	PL.5327	C	#2 ACSR	7.39Y	123.1	0.03	1.85	6.71	4	48	10	98	0.01	0.0	1.866	0.165	0	0	0	9
PL.5731	PL.5730	C	#2 ACSR	7.39Y	123.1	0.01	1.86	5.29	3	38	8	98	0.00	0.0	1.933	0.067	0	0	0	7
PL.6294	PL.5731	C	#2 ACSR	7.39Y	123.1	0.00	1.87	4.23	2	31	6	98	0.00	0.0	1.972	0.039	11	2	1	5

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6295	PL.6294	C	#2 ACSR	7.39Y	123.1	0.00	1.87	2.71	2	20	4	98	0.00	0.0	1.989	0.017	0	0	0	4
PL.6292	PL.6295	C	#1/0 ACSR	7.39Y	123.1	0.00	1.87	1.70	1	12	3	97	0.00	0.0	2.061	0.072	12	3	2	3
PL.6293	PL.6292	C	#1/0 ACSR	7.39Y	123.1	0.00	1.87	0.00	0	0	0	100	0.00	0.0	2.117	0.056	0	0	1	1
PL.5333	PL.6295	C	6 A (CWC)	7.39Y	123.1	0.00	1.87	1.01	1	7	2	96	0.00	0.0	2.081	0.093	7	2	1	1
PL.5331	PL.5731	C	#2 ACSR	7.39Y	123.1	0.00	1.86	1.06	1	8	2	97	0.00	0.0	1.979	0.046	1	0	1	2
PL.5332	PL.5331	C	#2 ACSR	7.39Y	123.1	0.00	1.86	0.98	1	7	1	99	0.00	0.0	2.015	0.036	7	1	1	1
PL.5330	PL.5730	C	#4 ACSR	7.39Y	123.1	0.00	1.85	1.42	1	10	2	98	0.00	0.0	1.899	0.033	10	2	2	2
PL.5328	PL.5327	C	#1/0 ACSR	7.39Y	123.2	0.00	1.82	1.53	1	11	2	98	0.00	0.0	1.742	0.041	11	2	1	1
PL.5329	PL.5327	C	#2 ACSR	7.39Y	123.2	0.01	1.83	6.30	4	46	10	98	0.00	0.0	1.779	0.078	15	3	1	2
PL.6717	PL.5329	C	1/0 AL URD	7.39Y	123.2	0.00	1.83	4.27	3	31	7	98	0.00	0.0	1.783	0.005	0	0	0	1
PD.1395	PL.6717	C	30T	7.39Y	123.2	0.00	1.83	4.27	0	31	7	98	0.00	0.0	1.783	0.005	0	0	0	1
PL.6718	PD.1395	C	1/0 AL URD	7.39Y	123.2	0.01	1.84	4.27	3	31	7	98	0.00	0.0	1.867	0.084	31	7	1	1
PL.5729	PL.6014	ABC	336 MCM AC	7.44Y	124.0	0.10	0.98	125.72	24	2738	627	97	1.56	0.1	0.908	0.117	14	3	3	541
PL.5336	PL.5729	ABC	336 MCM AC	7.44Y	124.0	0.06	1.03	125.10	24	2723	621	97	0.84	0.0	0.972	0.064	7	2	6	538
PL.6719	PL.5336	B	#2 ACSR	7.44Y	124.0	0.00	1.03	0.63	0	5	1	98	0.00	0.0	0.977	0.005	0	0	0	1
PD.1396	PL.6719	B	65T	7.44Y	124.0	0.00	1.03	0.63	0	5	1	98	0.00	0.0	0.977	0.005	0	0	0	1
PL.6720	PD.1396	B	#2 ACSR	7.44Y	124.0	0.00	1.03	0.63	0	5	1	98	0.00	0.0	1.007	0.030	5	1	1	1
PL.6006	PL.5336	ABC	336 MCM AC	7.43Y	123.9	0.05	1.09	120.92	23	2631	600	97	0.79	0.0	1.036	0.064	4	1	2	511
PL.5337	PL.6006	ABC	#4/0 ACSR	7.43Y	123.9	0.05	1.14	118.96	35	2587	589	98	0.82	0.0	1.080	0.043	3	1	1	503
PL.5338	PL.5337	ABC	#4/0 ACSR	7.43Y	123.8	0.10	1.23	118.81	35	2583	586	98	1.51	0.1	1.161	0.081	25	5	4	502
PL.6721	PL.5338	A	#4 ACSR	7.43Y	123.8	0.00	1.23	3.43	3	25	5	98	0.00	0.0	1.165	0.005	0	0	0	3
PD.1397	PL.6721	A	65T	7.43Y	123.8	0.00	1.23	3.43	0	25	5	98	0.00	0.0	1.165	0.005	0	0	0	3
PL.6722	PD.1397	A	#4 ACSR	7.43Y	123.8	0.01	1.25	3.43	3	25	5	98	0.00	0.0	1.239	0.073	0	0	0	3
PL.5345	PL.6722	A	#2 ACSR	7.43Y	123.8	0.00	1.25	2.68	2	19	4	98	0.00	0.0	1.254	0.015	19	4	2	2
PL.5346	PL.6722	A	#2 ACSR	7.43Y	123.8	0.00	1.25	0.75	0	5	1	98	0.00	0.0	1.274	0.036	5	1	1	1
PL.5347	PL.6722	A	#4 ACSR	7.43Y	123.8	0.00	1.25	0.00	0	0	0	100	0.00	0.0	1.277	0.038	0	0	0	0
PL.6266	PL.5338	ABC	#4/0 ACSR	7.42Y	123.7	0.08	1.31	113.82	33	2473	561	98	1.15	0.0	1.228	0.067	28	6	6	485
PL.6267	PL.6266	ABC	#4/0 ACSR	7.42Y	123.6	0.06	1.37	112.54	33	2444	553	98	0.92	0.0	1.282	0.055	15	3	3	479
PL.6617	PL.6267	C	#4 ACSR	7.42Y	123.6	0.00	1.37	1.33	1	10	2	98	0.00	0.0	1.287	0.005	0	0	0	3
PD.1340	PL.6617	C	65T	7.42Y	123.6	0.00	1.37	1.33	0	10	2	98	0.00	0.0	1.287	0.005	0	0	0	3
PL.6618	PD.1340	C	#4 ACSR	7.42Y	123.6	0.00	1.37	1.33	1	10	2	98	0.00	0.0	1.359	0.072	10	2	3	3

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																KW	KVAR	Cons On	Cons Thru	
PL.6275	PL.6267	ABC	#4/0 ACSR	7.42Y	123.6	0.03	1.40	111.39	33	2418	546	98	0.47	0.0	1.311	0.029	16	3	4	473
PL.6276	PL.6275	ABC	#4/0 ACSR	7.41Y	123.5	0.09	1.50	110.67	33	2402	542	98	1.37	0.1	1.395	0.084	0	0	0	469
PL.6615	PL.6276	C	6 A (CWC)	7.41Y	123.5	0.00	1.50	10.71	8	78	16	98	0.00	0.0	1.399	0.005	0	0	0	16
PD.1339	PL.6615	C	65T	7.41Y	123.5	0.00	1.50	10.71	0	78	16	98	0.00	0.0	1.399	0.005	0	0	0	16
PL.6616	PD.1339	C	6 A (CWC)	7.41Y	123.5	0.02	1.52	10.71	8	78	16	98	0.01	0.0	1.443	0.044	20	4	5	16
PL.6268	PL.6616	C	6 A (CWC)	7.41Y	123.5	0.01	1.53	7.91	6	57	12	98	0.00	0.0	1.471	0.028	6	1	2	11
PL.5349	PL.6268	C	#4 ACSR	7.41Y	123.5	0.00	1.53	1.27	1	9	2	98	0.00	0.0	1.510	0.039	9	2	2	2
PL.5350	PL.6268	C	6 A (CWC)	7.41Y	123.5	0.01	1.54	5.84	4	42	9	98	0.00	0.0	1.523	0.052	19	4	4	7
PL.6269	PL.5350	C	#2 ACSR	7.41Y	123.5	0.00	1.54	3.27	2	24	5	98	0.00	0.0	1.557	0.034	11	2	1	3
PL.6270	PL.6269	C	#2 ACSR	7.41Y	123.5	0.00	1.54	1.82	1	13	3	97	0.00	0.0	1.585	0.028	7	2	1	2
PL.6271	PL.6270	C	#2 ACSR	7.41Y	123.5	0.00	1.54	0.80	0	6	1	99	0.00	0.0	1.618	0.034	6	1	1	1
PL.6274	PL.6276	A	#4 ACSR	7.41Y	123.5	0.00	1.50	4.30	3	31	7	98	0.00	0.0	1.400	0.005	14	3	1	6
PL.6613	PL.6274	A	#4 ACSR	7.41Y	123.5	0.00	1.50	2.33	2	17	4	97	0.00	0.0	1.405	0.005	0	0	0	5
PD.1338	PL.6613	A	65T	7.41Y	123.5	0.00	1.50	2.33	0	17	4	97	0.00	0.0	1.405	0.005	0	0	0	5
PL.6614	PD.1338	A	#4 ACSR	7.41Y	123.5	0.01	1.50	2.33	2	17	4	97	0.00	0.0	1.462	0.057	2	0	2	5
PL.5348	PL.6614	A	#4 ACSR	7.41Y	123.5	0.00	1.51	2.06	2	15	3	98	0.00	0.0	1.497	0.036	15	3	3	3
PL.5734	PL.6276	ABC	#4/0 ACSR	7.41Y	123.5	0.02	1.52	105.67	31	2292	517	98	0.30	0.0	1.415	0.020	0	0	1	447
PL.6272	PL.5734	ABC	#4/0 ACSR	7.41Y	123.4	0.04	1.56	105.65	31	2291	516	98	0.61	0.0	1.456	0.041	8	2	1	446
PL.6273	PL.6272	ABC	#4/0 ACSR	7.41Y	123.4	0.01	1.57	105.28	31	2282	513	98	0.13	0.0	1.465	0.009	4	1	1	445
PL.5351	PL.6273	ABC	#4/0 ACSR	7.40Y	123.3	0.10	1.68	105.12	31	2278	512	98	1.46	0.1	1.564	0.099	2	0	1	444
PL.7189	PL.5351	C	#1/0 ACSR	7.40Y	123.3	0.00	1.68	1.42	1	10	2	98	0.00	0.0	1.567	0.003	0	0	0	2
PD.1540	PL.7189	C	65T	7.40Y	123.3	0.00	1.68	1.42	0	10	2	98	0.00	0.0	1.567	0.003	0	0	0	2
PL.7190	PD.1540	C	#1/0 ACSR	7.40Y	123.3	0.00	1.68	1.42	1	10	2	98	0.00	0.0	1.569	0.001	0	0	0	2
PL.5735	PL.7190	C	#1/0 ACSR	7.40Y	123.3	0.00	1.68	0.32	0	2	0	100	0.00	0.0	1.600	0.031	2	0	1	1
PL.6001	PL.7190	C	1/0 AL URD	7.40Y	123.3	0.00	1.68	1.10	1	8	2	97	0.00	0.0	1.576	0.008	0	0	0	1
PL.5353	PL.6001	C	1/0 AL URD	7.40Y	123.3	0.00	1.68	1.10	1	8	2	97	0.00	0.0	1.614	0.038	8	2	1	1
PL.5354	PL.5351	ABC	336 MCM AC	7.39Y	123.2	0.09	1.77	104.56	20	2265	507	98	1.12	0.0	1.686	0.122	3	1	1	441
PL.6609	PL.5354	C	#2 ACSR	7.39Y	123.2	0.00	1.77	25.69	15	186	39	98	0.00	0.0	1.691	0.005	0	0	0	23
PD.1335	PL.6609	C	65T	7.39Y	123.2	0.00	1.77	25.69	0	186	39	98	0.00	0.0	1.691	0.005	0	0	0	23
PL.6610	PD.1335	C	#2 ACSR	7.39Y	123.2	0.01	1.78	25.69	15	186	39	98	0.01	0.0	1.702	0.012	4	1	1	23
PL.6265	PL.6610	C	#2 ACSR	7.39Y	123.2	0.04	1.82	25.16	14	182	39	98	0.05	0.0	1.755	0.052	3	1	1	22

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5358	PL.6265	C	#2 ACSR	7.39Y	123.2	0.01	1.83	24.69	14	179	38	98	0.01	0.0	1.766	0.012	12	2	1	21
PL.5999	PL.5358	C	#1/0 ACSR	7.39Y	123.2	0.01	1.84	23.06	10	167	35	98	0.01	0.0	1.790	0.024	11	2	1	20
PL.6787	PL.5999	C	1/0 AL URD	7.39Y	123.2	0.00	1.84	1.79	1	13	3	97	0.00	0.0	1.795	0.005	0	0	0	1
PD.1431	PL.6787	C	40T	7.39Y	123.2	0.00	1.84	1.79	0	13	3	97	0.00	0.0	1.795	0.005	0	0	0	1
PL.6788	PD.1431	C	1/0 AL URD	7.39Y	123.2	0.00	1.84	1.79	1	13	3	97	0.00	0.0	1.808	0.013	13	3	1	1
PL.6000	PL.5999	C	#2 ACSR	7.39Y	123.1	0.04	1.88	19.77	11	143	30	98	0.04	0.0	1.868	0.078	18	4	3	18
PL.6250	PL.6000	C	#1/0 ACSR	7.39Y	123.1	0.01	1.89	9.22	4	67	14	98	0.00	0.0	1.911	0.044	8	2	1	8
PL.6251	PL.6250	C	#1/0 ACSR	7.39Y	123.1	0.01	1.90	8.17	4	59	12	98	0.00	0.0	1.959	0.047	17	4	2	7
PL.5993	PL.6251	C	#1/0 ACSR	7.39Y	123.1	0.01	1.90	4.47	2	32	7	98	0.00	0.0	2.013	0.054	0	0	0	4
PL.5736	PL.5993	C	#1/0 ACSR	7.39Y	123.1	0.00	1.91	2.38	1	17	4	97	0.00	0.0	2.059	0.046	0	0	0	3
PL.5737	PL.5736	C	#1/0 ACSR	7.39Y	123.1	0.00	1.91	1.60	1	12	2	99	0.00	0.0	2.077	0.019	11	2	1	2
PL.10157	PL.5737	C	#1/0 ACSR	7.39Y	123.1	0.00	1.91	0.08	0	1	0	100	0.00	0.0	2.163	0.086	1	0	1	1
PL.5356	PL.5736	C	#1/0 ACSR	7.39Y	123.1	0.00	1.91	0.78	0	6	1	99	0.00	0.0	2.137	0.079	6	1	1	1
PL.5357	PL.5993	C	#1/0 ACSR	7.39Y	123.1	0.00	1.91	2.09	1	15	3	98	0.00	0.0	2.067	0.054	15	3	1	1
PL.5355	PL.6251	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	1.28	1	9	2	98	0.00	0.0	2.000	0.041	9	2	1	1
PL.6258	PL.6000	C	#1/0 ACSR	7.39Y	123.1	0.01	1.89	8.05	4	58	12	98	0.00	0.0	1.930	0.063	25	5	3	7
PL.6259	PL.6258	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	4.66	2	34	7	98	0.00	0.0	1.986	0.056	17	4	2	4
PL.10196	PL.6259	C	#1/0 ACSR	7.39Y	123.1	0.01	1.90	2.26	1	16	3	98	0.00	0.0	2.104	0.118	0	0	0	2
PL.10195	PL.10196	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.76	0	6	1	99	0.00	0.0	2.145	0.041	0	0	0	1
PL.10198	PL.10195	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.76	0	6	1	99	0.00	0.0	2.185	0.040	6	1	1	1
PL.10197	PL.10196	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	1.49	1	11	2	98	0.00	0.0	2.143	0.040	11	2	1	1
PL.33047	PL.10197	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	2.177	0.034	0	0	0	0
PL.33048	PL.33047	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	2.210	0.033	0	0	0	0
PL.33049	PL.33048	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	2.246	0.036	0	0	0	0
PL.33051	PL.33049	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	2.276	0.030	0	0	0	0
PL.33052	PL.33051	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	2.276	0.000	0	0	0	0
PL.6607	PL.5354	ABC	336 MCM AC	7.39Y	123.2	0.00	1.77	93.63	18	2027	454	98	0.03	0.0	1.691	0.004	0	0	0	406
PL.6608	PL.6607	ABC	336 MCM AC	7.39Y	123.2	0.03	1.80	93.63	18	2027	454	98	0.34	0.0	1.737	0.046	0	0	0	406
PL.6256	PL.6608	ABC	#4/0 ACSR	7.39Y	123.1	0.05	1.85	93.45	27	2022	453	98	0.64	0.0	1.792	0.055	2	0	1	405
PL.6257	PL.6256	ABC	#4/0 ACSR	7.38Y	123.0	0.12	1.97	93.35	27	2019	451	98	1.47	0.1	1.919	0.127	15	3	3	404
PL.7191	PL.6257	C	6 A (CWC)	7.38Y	123.0	0.00	1.97	0.34	0	2	1	89	0.00	0.0	1.922	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PD.1541	PL.7191	C	65T	7.38Y	123.0	0.00	1.97	0.34	0	2	1	89	0.00	0.0	1.922	0.003	0	0	0	1
PL.7192	PD.1541	C	6 A (CWC)	7.38Y	123.0	0.00	1.97	0.34	0	2	1	89	0.00	0.0	1.923	0.002	0	0	0	1
PL.5738	PL.7192	C	6 A (CWC)	7.38Y	123.0	0.00	1.97	0.34	0	2	1	89	0.00	0.0	1.969	0.045	2	1	1	1
PL.6725	PL.6257	A	#2 ACSR	7.38Y	123.0	0.00	1.97	1.12	1	8	2	97	0.00	0.0	1.923	0.005	0	0	0	2
PD.1399	PL.6725	A	65T	7.38Y	123.0	0.00	1.97	1.12	0	8	2	97	0.00	0.0	1.923	0.005	0	0	0	2
PL.6726	PD.1399	A	#2 ACSR	7.38Y	123.0	0.00	1.97	1.12	1	8	2	97	0.00	0.0	1.970	0.047	8	2	2	2
PL.5361	PL.6257	ABC	#4/0 ACSR	7.38Y	122.9	0.10	2.07	92.16	27	1992	443	98	1.21	0.1	2.026	0.107	11	2	1	398
PL.6011	PL.5361	ABC	#4/0 ACSR	7.37Y	122.8	0.09	2.15	91.67	27	1980	439	98	1.05	0.1	2.119	0.094	5	1	1	397
PL.6248	PL.6011	ABC	#4/0 ACSR	7.37Y	122.8	0.05	2.20	90.95	27	1964	434	98	0.58	0.0	2.172	0.053	15	3	6	394
PL.6249	PL.6248	ABC	#4/0 ACSR	7.36Y	122.7	0.05	2.25	90.25	27	1948	429	98	0.59	0.0	2.227	0.055	0	0	0	388
PL.5370	PL.6249	ABC	#4/0 ACSR	7.36Y	122.7	0.08	2.33	90.25	27	1948	428	98	0.98	0.1	2.317	0.091	1	0	1	388
PL.6401	PL.5370	ABC	#4/0 ACSR	7.36Y	122.6	0.05	2.38	90.20	27	1945	426	98	0.57	0.0	2.370	0.052	0	0	0	387
PL.6727	PL.6401	A	#1/0 ACSR	7.36Y	122.6	0.00	2.38	13.27	6	96	20	98	0.00	0.0	2.374	0.005	0	0	0	17
PD.1400	PL.6727	A	65T	7.36Y	122.6	0.00	2.38	13.27	0	96	20	98	0.00	0.0	2.374	0.005	0	0	0	17
PL.6728	PD.1400	A	#1/0 ACSR	7.35Y	122.5	0.07	2.45	13.27	6	96	20	98	0.05	0.0	2.621	0.247	0	0	0	17
PL.5373	PL.6728	A	#1/0 ACSR	7.35Y	122.5	0.00	2.46	1.05	0	8	2	97	0.00	0.0	2.703	0.081	8	2	1	1
PL.5374	PL.6728	A	#1/0 ACSR	7.35Y	122.5	0.01	2.46	12.22	5	88	19	98	0.01	0.0	2.654	0.033	0	0	0	16
PL.5375	PL.5374	A	#1/0 ACSR	7.35Y	122.5	0.00	2.46	0.78	0	6	1	99	0.00	0.0	2.707	0.052	0	0	0	3
PL.5377	PL.5375	A	#1/0 ACSR	7.35Y	122.5	0.00	2.46	0.17	0	1	0	100	0.00	0.0	2.850	0.143	1	0	1	1
PL.5378	PL.5375	A	#4 ACSR	7.35Y	122.5	0.00	2.46	0.61	0	4	1	97	0.00	0.0	2.723	0.016	4	1	2	2
PL.5739	PL.5374	A	#1/0 ACSR	7.35Y	122.5	0.01	2.47	11.44	5	82	17	98	0.00	0.0	2.691	0.036	4	1	1	13
PL.5376	PL.5739	A	#1/0 ACSR	7.35Y	122.5	0.00	2.47	0.96	0	7	1	99	0.00	0.0	2.738	0.047	7	1	1	1
PL.6398	PL.5739	A	#1/0 ACSR	7.35Y	122.5	0.01	2.48	9.87	4	71	15	98	0.01	0.0	2.747	0.056	3	1	1	11
PL.6399	PL.6398	A	#1/0 ACSR	7.35Y	122.5	0.02	2.50	9.51	4	68	14	98	0.01	0.0	2.836	0.090	9	2	1	10
PL.6397	PL.6399	A	#1/0 ACSR	7.35Y	122.5	0.01	2.51	8.31	4	60	13	98	0.00	0.0	2.872	0.036	7	1	1	9
PL.6395	PL.6397	A	#1/0 ACSR	7.35Y	122.5	0.01	2.51	7.35	3	53	11	98	0.00	0.0	2.917	0.045	12	2	2	8
PL.6396	PL.6395	A	#1/0 ACSR	7.35Y	122.5	0.01	2.52	5.71	2	41	9	98	0.00	0.0	2.972	0.055	8	2	1	6
PL.6394	PL.6396	A	#1/0 ACSR	7.35Y	122.5	0.00	2.53	4.61	2	33	7	98	0.00	0.0	3.014	0.042	7	2	1	5
PL.6393	PL.6394	A	#1/0 ACSR	7.35Y	122.5	0.00	2.53	3.61	2	26	5	98	0.00	0.0	3.058	0.044	19	4	3	4
PL.6392	PL.6393	A	#1/0 ACSR	7.35Y	122.5	0.00	2.53	1.01	0	7	2	96	0.00	0.0	3.113	0.055	7	2	1	1
PL.6828	PL.6401	ABC	#4/0 ACSR	7.35Y	122.6	0.04	2.42	85.47	25	1843	404	98	0.48	0.0	2.418	0.049	0	0	0	368

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.7193	PL.6828	ABC	#4/0 ACSR	7.35Y	122.6	0.00	2.43	85.47	25	1842	403	98	0.03	0.0	2.422	0.003	0	0	0	368
PD.1542	PL.7193	ABC	140L	7.35Y	122.6	0.00	2.43	85.47	61	1842	403	98	0.00	0.0	2.422	0.003	0	0	0	368
PL.7194	PD.1542	ABC	#4/0 ACSR	7.35Y	122.5	0.08	2.51	85.47	25	1842	403	98	0.95	0.1	2.519	0.097	0	0	0	368
PL.5994	PL.7194	ABC	#1/0 ACSR	7.35Y	122.5	0.02	2.53	17.53	8	378	80	98	0.06	0.0	2.596	0.077	0	0	1	77
PL.6729	PL.5994	C	#4 ACSR	7.35Y	122.5	0.00	2.53	17.05	13	123	26	98	0.00	0.0	2.600	0.004	0	0	0	21
PD.1401	PL.6729	C	30T	7.35Y	122.5	0.00	2.53	17.05	0	123	26	98	0.00	0.0	2.600	0.004	0	0	0	21
PL.6730	PD.1401	C	#4 ACSR	7.34Y	122.4	0.05	2.59	17.05	13	123	26	98	0.05	0.0	2.671	0.071	12	2	1	21
PL.6389	PL.6730	C	#4 ACSR	7.34Y	122.4	0.03	2.62	15.45	12	111	23	98	0.03	0.0	2.717	0.046	6	1	2	20
PL.5379	PL.6389	C	#4 ACSR	7.34Y	122.4	0.02	2.64	13.50	10	97	20	98	0.02	0.0	2.763	0.046	17	4	5	17
PL.6384	PL.5379	C	#4 ACSR	7.34Y	122.3	0.02	2.66	11.08	9	80	17	98	0.01	0.0	2.804	0.041	9	2	1	12
PL.6385	PL.6384	C	#4 ACSR	7.34Y	122.3	0.01	2.67	9.76	8	70	15	98	0.00	0.0	2.819	0.015	10	2	1	11
PL.6386	PL.6385	C	#4 ACSR	7.34Y	122.3	0.00	2.67	4.39	3	32	7	98	0.00	0.0	2.859	0.040	22	5	3	4
PL.6387	PL.6386	C	#4 ACSR	7.34Y	122.3	0.00	2.67	1.33	1	10	2	98	0.00	0.0	2.880	0.021	10	2	1	1
PL.6388	PL.6387	C	#4 ACSR	7.34Y	122.3	0.00	2.67	0.00	0	0	0	100	0.00	0.0	2.900	0.020	0	0	0	0
PL.6382	PL.6385	C	#4 ACSR	7.34Y	122.3	0.01	2.67	4.01	3	29	6	98	0.00	0.0	2.865	0.046	11	2	2	6
PL.6383	PL.6382	C	#4 ACSR	7.34Y	122.3	0.00	2.67	2.52	2	18	4	98	0.00	0.0	2.892	0.027	15	3	3	4
PL.6381	PL.6383	C	#4 ACSR	7.34Y	122.3	0.00	2.67	0.45	0	3	1	95	0.00	0.0	2.912	0.020	3	1	1	1
PL.5987	PL.6389	C	#4 ACSR	7.34Y	122.4	0.00	2.62	1.14	1	8	2	97	0.00	0.0	2.779	0.061	8	2	1	1
PL.5995	PL.5994	ABC	#1/0 ACSR	7.35Y	122.5	0.02	2.55	11.84	5	255	54	98	0.03	0.0	2.678	0.082	0	0	0	55
PL.7195	PL.5995	ABC	#1/0 ACSR	7.35Y	122.5	0.00	2.55	11.84	5	255	54	98	0.00	0.0	2.682	0.003	0	0	0	55
PD.1543	PL.7195	ABC	35H	7.35Y	122.5	0.00	2.55	11.84	34	255	54	98	0.00	0.0	2.682	0.003	0	0	0	55
PL.7196	PD.1543	ABC	#1/0 ACSR	7.35Y	122.4	0.01	2.56	11.84	5	255	54	98	0.02	0.0	2.724	0.043	2	0	2	55
PL.5382	PL.7196	A	#2 ACSR	7.35Y	122.4	0.00	2.56	4.93	3	35	7	98	0.00	0.0	2.729	0.005	0	0	0	8
PD.1402	PL.5382	A	10T	7.35Y	122.4	0.00	2.56	4.93	0	35	7	98	0.00	0.0	2.729	0.005	0	0	0	8
PL.5991	PD.1402	A	6 A (CWC)	7.35Y	122.4	0.00	2.56	3.27	2	24	5	98	0.00	0.0	2.741	0.012	0	0	0	6
PL.5380	PL.5991	A	6 A (CWC)	7.35Y	122.4	0.00	2.56	3.27	2	24	5	98	0.00	0.0	2.765	0.024	0	0	0	6
PL.5381	PL.5380	A	#4 ACSR	7.35Y	122.4	0.00	2.57	2.25	2	16	3	98	0.00	0.0	2.815	0.050	5	1	2	5
PL.6691	PL.5381	A	#4 ACSR	7.35Y	122.4	0.00	2.57	1.57	1	11	2	98	0.00	0.0	2.819	0.005	0	0	0	3
PD.1379	PL.6691	A	10T	7.35Y	122.4	0.00	2.57	1.57	0	11	2	98	0.00	0.0	2.819	0.005	0	0	0	3
PL.6692	PD.1379	A	#4 ACSR	7.35Y	122.4	0.00	2.57	1.57	1	11	2	98	0.00	0.0	2.865	0.046	6	1	1	3
PL.6374	PL.6692	A	#4 ACSR	7.35Y	122.4	0.00	2.57	0.77	1	6	1	99	0.00	0.0	2.928	0.063	2	0	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5402	PL.6374	A	#4 ACSR	7.35Y	122.4	0.00	2.58	0.55	0	4	1	97	0.00	0.0	3.034	0.106	0	0	0	1
PL.5403	PL.5402	A	#4 ACSR	7.35Y	122.4	0.00	2.58	0.55	0	4	1	97	0.00	0.0	3.047	0.014	4	1	1	1
PL.5740	PL.5380	A	6 A (CWC)	7.35Y	122.4	0.00	2.57	1.02	1	7	2	96	0.00	0.0	2.798	0.033	7	2	1	1
PL.6390	PD.1402	A	#2 ACSR	7.35Y	122.4	0.00	2.56	1.66	1	12	3	97	0.00	0.0	2.789	0.059	3	1	1	2
PL.6391	PL.6390	A	#2 ACSR	7.35Y	122.4	0.00	2.56	1.26	1	9	2	98	0.00	0.0	2.809	0.020	9	2	1	1
PL.5985	PL.7196	ABC	#1/0 ACSR	7.35Y	122.4	0.01	2.57	10.12	4	218	46	98	0.02	0.0	2.807	0.083	14	3	3	45
PL.5986	PL.5985	ABC	#1/0 ACSR	7.34Y	122.4	0.02	2.59	9.35	4	202	43	98	0.02	0.0	2.904	0.097	0	0	0	41
PL.6687	PL.5986	C	#2 ACSR	7.34Y	122.4	0.00	2.59	1.36	1	10	2	98	0.00	0.0	2.909	0.005	0	0	0	2
PD.1377	PL.6687	C	10T	7.34Y	122.4	0.00	2.59	1.36	0	10	2	98	0.00	0.0	2.909	0.005	0	0	0	2
PL.6688	PD.1377	C	#2 ACSR	7.34Y	122.4	0.00	2.59	1.36	1	10	2	98	0.00	0.0	2.948	0.039	10	2	2	2
PL.5741	PL.5986	ABC	#1/0 ACSR	7.34Y	122.4	0.02	2.60	8.22	4	177	38	98	0.02	0.0	3.018	0.113	0	0	0	37
PL.5742	PL.5741	ABC	#1/0 ACSR	7.34Y	122.4	0.00	2.61	1.98	1	43	9	98	0.00	0.0	3.071	0.053	0	0	1	14
PL.6372	PL.5742	ABC	#1/0 ACSR	7.34Y	122.4	0.00	2.61	1.73	1	37	8	98	0.00	0.0	3.148	0.077	1	0	2	12
PL.6373	PL.6372	ABC	#1/0 ACSR	7.34Y	122.4	0.00	2.61	1.66	1	36	8	98	0.00	0.0	3.209	0.060	0	0	0	10
PL.6683	PL.6373	B	6 A (CWC)	7.34Y	122.4	0.00	2.61	4.99	4	36	8	98	0.00	0.0	3.213	0.005	0	0	0	10
PD.1375	PL.6683	B	10T	7.34Y	122.4	0.00	2.61	4.99	0	36	8	98	0.00	0.0	3.213	0.005	0	0	0	10
PL.6684	PD.1375	B	6 A (CWC)	7.34Y	122.3	0.08	2.69	4.99	4	36	8	98	0.02	0.1	3.554	0.341	0	0	0	10
PL.6370	PL.6684	B	#4 ACSR	7.34Y	122.3	0.01	2.70	2.99	2	21	5	97	0.00	0.0	3.669	0.115	1	0	1	6
PL.6371	PL.6370	B	#4 ACSR	7.34Y	122.3	0.01	2.71	2.81	2	20	4	98	0.00	0.0	3.754	0.085	0	0	0	5
PL.6369	PL.6371	B	#4 ACSR	7.34Y	122.3	0.01	2.72	2.81	2	20	4	98	0.00	0.0	3.832	0.078	1	0	1	5
PL.5392	PL.6369	B	#4 ACSR	7.34Y	122.3	0.01	2.73	2.66	2	19	4	98	0.00	0.0	3.892	0.060	0	0	0	4
PL.5396	PL.5392	B	#4 ACSR	7.34Y	122.3	0.01	2.73	1.95	1	14	3	98	0.00	0.0	3.964	0.072	4	1	1	2
PL.5397	PL.5396	B	#4 ACSR	7.34Y	122.3	0.00	2.74	1.36	1	10	2	98	0.00	0.0	4.050	0.086	10	2	1	1
PL.5394	PL.5392	B	#4 ACSR	7.34Y	122.3	0.00	2.73	0.00	0	0	0	100	0.00	0.0	3.908	0.016	0	0	0	0
PL.5395	PL.5392	B	#4 ACSR	7.34Y	122.3	0.00	2.73	0.71	1	5	1	98	0.00	0.0	3.914	0.022	5	1	2	2
PL.5393	PL.6369	B	#4 ACSR	7.34Y	122.3	0.00	2.72	0.00	0	0	0	100	0.00	0.0	3.877	0.045	0	0	0	0
PL.5391	PL.6684	B	6 A (CWC)	7.34Y	122.3	0.01	2.70	2.00	1	14	3	98	0.00	0.0	3.740	0.186	6	1	2	4
PL.5398	PL.5391	B	#1/0 ACSR	7.34Y	122.3	0.00	2.70	1.17	1	8	2	97	0.00	0.0	3.773	0.033	0	0	0	2
PL.6366	PL.5398	B	#1/0 ACSR	7.34Y	122.3	0.00	2.70	1.17	1	8	2	97	0.00	0.0	3.787	0.013	1	0	1	2
PL.6367	PL.6366	B	#1/0 ACSR	7.34Y	122.3	0.00	2.70	0.97	0	7	1	99	0.00	0.0	3.827	0.040	7	1	1	1
PL.6735	PL.6373	A	#4 ACSR	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	3.213	0.004	0	0	0	0

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PD.1405	PL.6735	A	10T	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	3.213	0.004	0	0	0	0
PL.6736	PD.1405	A	#4 ACSR	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	3.268	0.055	0	0	0	0
PL.33053	PL.6736	A	#1/0 ACSR	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	3.302	0.034	0	0	0	0
PL.33054	PL.33053	A	#1/0 ACSR	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	3.353	0.052	0	0	0	0
PL.33055	PL.33054	A	#1/0 ACSR	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	3.400	0.047	0	0	0	0
PL.33056	PL.33055	A	#1/0 ACSR	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	3.434	0.034	0	0	0	0
PL.6685	PL.5742	C	#4 ACSR	7.34Y	122.4	0.00	2.61	0.70	1	5	1	98	0.00	0.0	3.076	0.005	0	0	0	1
PD.1376	PL.6685	C	10T	7.34Y	122.4	0.00	2.61	0.70	0	5	1	98	0.00	0.0	3.076	0.005	0	0	0	1
PL.6686	PD.1376	C	#4 ACSR	7.34Y	122.4	0.00	2.61	0.70	1	5	1	98	0.00	0.0	3.117	0.041	5	1	1	1
PL.6733	PL.5741	C	6 A (CWC)	7.34Y	122.4	0.00	2.61	18.72	13	135	28	98	0.00	0.0	3.022	0.005	0	0	0	23
PD.1404	PL.6733	C	25T	7.34Y	122.4	0.00	2.61	18.72	0	135	28	98	0.00	0.0	3.022	0.005	0	0	0	23
PL.6734	PD.1404	C	6 A (CWC)	7.34Y	122.3	0.05	2.66	18.72	13	135	28	98	0.05	0.0	3.083	0.061	11	2	2	23
PL.6380	PL.6734	C	6 A (CWC)	7.34Y	122.3	0.01	2.67	17.25	12	124	26	98	0.01	0.0	3.101	0.018	6	1	1	21
PL.6379	PL.6380	C	6 A (CWC)	7.34Y	122.3	0.03	2.70	16.48	12	118	25	98	0.03	0.0	3.146	0.045	0	0	0	20
PL.6377	PL.6379	C	#1/0 ACSR	7.34Y	122.3	0.00	2.71	2.42	1	17	4	97	0.00	0.0	3.183	0.037	9	2	1	2
PL.6378	PL.6377	C	#1/0 ACSR	7.34Y	122.3	0.00	2.71	1.21	1	9	2	98	0.00	0.0	3.252	0.069	9	2	1	1
PL.5744	PL.6379	C	6 A (CWC)	7.33Y	122.2	0.06	2.76	14.06	10	101	21	98	0.04	0.0	3.241	0.095	8	2	1	18
PL.6375	PL.5744	C	6 A (CWC)	7.33Y	122.2	0.00	2.77	12.17	9	87	18	98	0.00	0.0	3.249	0.008	4	1	1	16
PL.6376	PL.6375	C	6 A (CWC)	7.33Y	122.2	0.03	2.80	11.64	8	83	18	98	0.02	0.0	3.317	0.068	18	4	2	15
PL.5384	PL.6376	C	6 A (CWC)	7.33Y	122.2	0.01	2.81	4.57	3	33	7	98	0.00	0.0	3.391	0.073	11	2	3	9
PL.5386	PL.5384	C	6 A (CWC)	7.33Y	122.2	0.01	2.82	3.02	2	22	5	98	0.00	0.0	3.463	0.072	11	2	3	6
PL.5388	PL.5386	C	#2 ACSR	7.33Y	122.2	0.00	2.82	0.80	0	6	1	99	0.00	0.0	3.498	0.036	6	1	2	2
PL.5387	PL.5386	C	#2 ACSR	7.33Y	122.2	0.00	2.82	0.66	0	5	1	98	0.00	0.0	3.492	0.029	5	1	1	1
PL.5385	PL.6376	C	#4 ACSR	7.33Y	122.2	0.01	2.81	4.51	3	32	7	98	0.00	0.0	3.377	0.060	8	2	1	4
PL.5983	PL.5385	C	#4 ACSR	7.33Y	122.2	0.01	2.82	3.42	3	25	5	98	0.00	0.0	3.443	0.066	6	1	1	3
PL.5389	PL.5983	C	#1/0 ACSR	7.33Y	122.2	0.00	2.82	1.43	1	10	2	98	0.00	0.0	3.537	0.093	10	2	1	1
PL.5984	PL.5983	C	#4 ACSR	7.33Y	122.2	0.00	2.82	1.19	1	9	2	98	0.00	0.0	3.516	0.072	0	0	0	1
PL.5390	PL.5984	C	#2 ACSR	7.33Y	122.2	0.00	2.82	1.19	1	9	2	98	0.00	0.0	3.565	0.049	9	2	1	1
PL.5743	PL.5744	C	6 A (CWC)	7.33Y	122.2	0.00	2.76	0.81	1	6	1	99	0.00	0.0	3.280	0.039	0	0	0	1
PL.5383	PL.5743	C	#4 ACSR	7.33Y	122.2	0.00	2.76	0.81	1	6	1	99	0.00	0.0	3.315	0.035	6	1	1	1
PL.6731	PL.5986	A	6 A (CWC)	7.34Y	122.4	0.00	2.59	2.03	1	15	3	98	0.00	0.0	2.909	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PD.1403	PL.6731	A	10T	7.34Y	122.4	0.00	2.59	2.03	0	15	3	98	0.00	0.0	2.909	0.005	0	0	0	2
PL.6732	PD.1403	A	6 A (CWC)	7.34Y	122.4	0.00	2.59	2.03	1	15	3	98	0.00	0.0	2.978	0.069	15	3	2	2
PL.6689	PL.5985	C	#4 ACSR	7.35Y	122.4	0.00	2.57	0.41	0	3	1	95	0.00	0.0	2.812	0.005	0	0	0	1
PD.1378	PL.6689	C	10T	7.35Y	122.4	0.00	2.57	0.41	0	3	1	95	0.00	0.0	2.812	0.005	0	0	0	1
PL.6690	PD.1378	C	#4 ACSR	7.35Y	122.4	0.00	2.57	0.41	0	3	1	95	0.00	0.0	2.852	0.041	3	1	1	1
PL.6364	PL.7194	ABC	#4/0 ACSR	7.35Y	122.4	0.05	2.56	67.94	20	1463	321	98	0.50	0.0	2.600	0.081	1	0	1	291
PL.6365	PL.6364	ABC	#4/0 ACSR	7.35Y	122.4	0.02	2.58	67.90	20	1462	320	98	0.18	0.0	2.629	0.029	28	6	6	290
PL.5553	PL.6365	ABC	#4/0 ACSR	7.34Y	122.4	0.05	2.63	66.13	19	1424	312	98	0.45	0.0	2.707	0.078	5	1	1	280
PL.6363	PL.5553	ABC	#4/0 ACSR	7.34Y	122.3	0.04	2.68	65.91	19	1418	310	98	0.39	0.0	2.773	0.067	8	2	1	279
PL.5551	PL.6363	ABC	#4/0 ACSR	7.34Y	122.3	0.02	2.70	64.18	19	1381	301	98	0.16	0.0	2.802	0.029	0	0	1	274
PL.5552	PL.5551	ABC	#4/0 ACSR	7.34Y	122.3	0.03	2.73	64.18	19	1381	301	98	0.25	0.0	2.847	0.045	2	0	1	273
PL.5549	PL.5552	ABC	#4/0 ACSR	7.33Y	122.2	0.04	2.77	63.61	19	1368	298	98	0.35	0.0	2.913	0.066	19	4	3	268
PL.5550	PL.5549	ABC	#4/0 ACSR	7.33Y	122.2	0.03	2.80	62.71	18	1348	293	98	0.29	0.0	2.969	0.056	18	4	3	265
PL.6005	PL.5550	ABC	#4/0 ACSR	7.33Y	122.1	0.05	2.85	61.02	18	1312	285	98	0.42	0.0	3.054	0.085	0	0	0	257
PL.5544	PL.6005	ABC	#4/0 ACSR	7.33Y	122.1	0.05	2.90	61.02	18	1311	284	98	0.41	0.0	3.136	0.082	7	1	2	257
PL.5545	PL.5544	ABC	#4/0 ACSR	7.32Y	122.1	0.03	2.93	60.71	18	1304	282	98	0.23	0.0	3.183	0.047	0	0	0	255
PL.5746	PL.5545	ABC	#4/0 ACSR	7.32Y	122.0	0.04	2.97	60.56	18	1301	281	98	0.35	0.0	3.253	0.071	0	0	0	254
PL.6673	PL.5746	A	6 A (CWC)	7.32Y	122.0	0.00	2.97	1.50	1	11	2	98	0.00	0.0	3.258	0.005	0	0	0	4
PD.1369	PL.6673	A	30T	7.32Y	122.0	0.00	2.97	1.50	0	11	2	98	0.00	0.0	3.258	0.005	0	0	0	4
PL.6674	PD.1369	A	6 A (CWC)	7.32Y	122.0	0.00	2.98	1.50	1	11	2	98	0.00	0.0	3.324	0.066	11	2	4	4
PL.5998	PL.5746	ABC	#4/0 ACSR	7.32Y	122.0	0.03	3.00	60.06	18	1289	278	98	0.22	0.0	3.298	0.045	12	2	1	250
PL.6513	PL.5998	ABC	#4/0 ACSR	7.32Y	122.0	0.02	3.02	59.03	17	1267	273	98	0.14	0.0	3.330	0.031	9	2	1	248
PL.6514	PL.6513	ABC	#4/0 ACSR	7.32Y	121.9	0.03	3.05	58.58	17	1257	271	98	0.26	0.0	3.386	0.056	0	0	0	247
PL.5748	PL.6514	ABC	#4/0 ACSR	7.31Y	121.9	0.03	3.09	56.70	17	1217	262	98	0.25	0.0	3.444	0.058	0	0	0	239
PL.7254	PL.5748	ABC	#4/0 ACSR	7.31Y	121.9	0.03	3.12	56.35	17	1209	260	98	0.23	0.0	3.498	0.053	0	0	0	238
PL.7253	PL.7254	C	#1/0 ACSR	7.31Y	121.9	0.00	3.12	0.61	0	4	1	97	0.00	0.0	3.545	0.047	4	1	1	1
PL.7255	PL.7253	ABC	#4/0 ACSR	7.31Y	121.9	0.03	3.15	56.15	17	1204	259	98	0.24	0.0	3.554	0.057	6	1	1	237
PL.5542	PL.7255	ABC	#4/0 ACSR	7.31Y	121.8	0.03	3.18	55.87	16	1198	257	98	0.26	0.0	3.617	0.063	1	0	2	236
PL.5543	PL.5542	ABC	#4/0 ACSR	7.31Y	121.8	0.01	3.19	55.82	16	1197	256	98	0.09	0.0	3.639	0.022	12	3	1	234
PL.5541	PL.5543	ABC	#4/0 ACSR	7.31Y	121.8	0.01	3.20	55.25	16	1185	253	98	0.06	0.0	3.653	0.014	0	0	0	233
PL.6669	PL.5541	B	#4 ACSR	7.31Y	121.8	0.00	3.20	8.71	7	62	13	98	0.00	0.0	3.658	0.005	0	0	0	12

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PD.1366	PL.6669	B	30T	7.31Y	121.8	0.00	3.20	8.71	0	62	13	98	0.00	0.0	3.658	0.005	0	0	0	12
PL.6670	PD.1366	B	#4 ACSR	7.31Y	121.8	0.02	3.22	8.71	7	62	13	98	0.01	0.0	3.713	0.055	0	0	0	12
PL.5410	PL.6670	B	#4 ACSR	7.31Y	121.8	0.00	3.23	0.46	0	3	1	95	0.00	0.0	3.727	0.015	3	1	1	1
PL.5537	PL.6670	B	#4 ACSR	7.31Y	121.8	0.00	3.23	2.25	2	16	3	98	0.00	0.0	3.769	0.056	4	1	1	3
PL.5538	PL.5537	B	#4 ACSR	7.31Y	121.8	0.00	3.23	1.67	1	12	3	97	0.00	0.0	3.798	0.029	7	2	1	2
PL.5535	PL.5538	B	#4 ACSR	7.31Y	121.8	0.00	3.23	0.68	1	5	1	98	0.00	0.0	3.828	0.030	5	1	1	1
PL.5539	PL.6670	B	#4 ACSR	7.31Y	121.8	0.01	3.23	6.01	5	43	9	98	0.00	0.0	3.744	0.031	9	2	3	8
PL.5540	PL.5539	B	#4 ACSR	7.31Y	121.8	0.01	3.24	4.71	4	34	7	98	0.00	0.0	3.804	0.060	6	1	1	5
PL.5536	PL.5540	B	#4 ACSR	7.30Y	121.7	0.01	3.25	3.82	3	27	6	98	0.00	0.0	3.870	0.066	7	2	1	4
PL.5534	PL.5536	B	#4 ACSR	7.30Y	121.7	0.00	3.26	2.78	2	20	4	98	0.00	0.0	3.900	0.029	7	1	1	3
PL.5533	PL.5534	B	#4 ACSR	7.30Y	121.7	0.00	3.26	1.85	1	13	3	97	0.00	0.0	3.935	0.036	0	0	0	2
PL.5531	PL.5533	B	#4 ACSR	7.30Y	121.7	0.00	3.26	1.85	1	13	3	97	0.00	0.0	3.962	0.027	10	2	1	2
PL.5532	PL.5531	B	#4 ACSR	7.30Y	121.7	0.00	3.26	0.50	0	4	1	97	0.00	0.0	4.039	0.077	4	1	1	1
PL.5988	PL.5541	ABC	#4/0 ACSR	7.31Y	121.8	0.02	3.22	52.35	15	1122	240	98	0.14	0.0	3.692	0.039	3	1	1	221
PL.6667	PL.5988	B	1/0 AL URD	7.31Y	121.8	0.00	3.22	13.10	8	94	20	98	0.00	0.0	3.697	0.005	0	0	0	14
PD.1365	PL.6667	B	30T	7.31Y	121.8	0.00	3.22	13.10	0	94	20	98	0.00	0.0	3.697	0.005	0	0	0	14
PL.6668	PD.1365	B	1/0 AL URD	7.31Y	121.8	0.01	3.23	13.10	8	94	20	98	0.00	0.0	3.710	0.013	7	1	1	14
PL.6532	PL.6668	B	1/0 AL URD	7.31Y	121.8	0.01	3.24	12.16	7	87	18	98	0.01	0.0	3.735	0.025	24	5	4	13
PL.6531	PL.6532	B	1/0 AL URD	7.31Y	121.8	0.01	3.25	8.86	5	63	13	98	0.00	0.0	3.764	0.029	0	0	0	9
PL.5411	PL.6531	B	1/0 AL URD	7.30Y	121.7	0.01	3.25	8.86	5	63	13	98	0.00	0.0	3.788	0.024	0	0	0	9
PL.5425	PL.5411	B	1/0 AL URD	7.30Y	121.7	0.01	3.26	8.86	5	63	13	98	0.00	0.0	3.823	0.034	14	3	2	9
PL.6529	PL.5425	B	1/0 AL URD	7.30Y	121.7	0.01	3.27	6.89	4	49	10	98	0.00	0.0	3.864	0.042	3	1	1	7
PL.6530	PL.6529	B	1/0 AL URD	7.30Y	121.7	0.01	3.28	6.48	4	46	10	98	0.00	0.0	3.927	0.062	0	0	0	6
PL.7200	PL.6530	B	1/0 AL URD	7.30Y	121.7	0.00	3.28	0.00	0	0	0	100	0.00	0.0	3.931	0.005	0	0	0	0
PL.6661	PL.6530	B	1/0 AL URD	7.30Y	121.7	0.00	3.28	6.48	4	46	10	98	0.00	0.0	3.931	0.005	0	0	0	6
PD.1361	PL.6661	B	20T	7.30Y	121.7	0.00	3.28	6.48	0	46	10	98	0.00	0.0	3.931	0.005	0	0	0	6
PL.6662	PD.1361	B	1/0 AL URD	7.30Y	121.7	0.00	3.28	6.48	4	46	10	98	0.00	0.0	3.936	0.005	0	0	0	6
PL.5413	PL.6662	B	#1/0 ACSR	7.30Y	121.7	0.00	3.29	6.48	3	46	10	98	0.00	0.0	3.970	0.034	0	0	0	6
PL.5423	PL.5413	B	#1/0 ACSR	7.30Y	121.7	0.00	3.29	6.48	3	46	10	98	0.00	0.0	4.008	0.038	10	2	1	6
PL.5422	PL.5423	B	#1/0 ACSR	7.30Y	121.7	0.00	3.30	4.11	2	29	6	98	0.00	0.0	4.048	0.040	5	1	1	4
PL.5415	PL.5422	B	#1/0 ACSR	7.30Y	121.7	0.00	3.30	3.35	1	24	5	98	0.00	0.0	4.081	0.032	7	1	1	3

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5416	PL.5415	B	#1/0 ACSR	7.30Y	121.7	0.00	3.30	1.06	0	8	2	97	0.00	0.0	4.110	0.030	8	2	1	1
PL.5417	PL.5415	B	#1/0 ACSR	7.30Y	121.7	0.00	3.30	1.31	1	9	2	98	0.00	0.0	4.113	0.032	9	2	1	1
PL.5418	PL.5415	B	#1/0 ACSR	7.30Y	121.7	0.00	3.30	0.00	0	0	0	100	0.00	0.0	4.118	0.037	0	0	0	0
PL.5414	PL.5423	B	#1/0 ACSR	7.30Y	121.7	0.00	3.29	1.01	0	7	2	96	0.00	0.0	4.040	0.032	7	2	1	1
PL.5529	PL.5988	ABC	#4/0 ACSR	7.31Y	121.8	0.02	3.24	47.82	14	1025	219	98	0.12	0.0	3.730	0.038	7	1	1	206
PL.5530	PL.5529	ABC	#4/0 ACSR	7.30Y	121.7	0.02	3.26	47.51	14	1018	218	98	0.11	0.0	3.767	0.037	0	0	0	205
PL.5527	PL.5530	ABC	#4/0 ACSR	7.30Y	121.7	0.02	3.28	47.10	14	1009	216	98	0.13	0.0	3.813	0.046	8	2	2	202
PL.5528	PL.5527	ABC	#4/0 ACSR	7.30Y	121.7	0.05	3.33	46.71	14	1001	214	98	0.30	0.0	3.917	0.104	10	2	5	200
PL.5524	PL.5528	ABC	#4/0 ACSR	7.30Y	121.7	0.01	3.34	46.24	14	990	211	98	0.07	0.0	3.941	0.024	0	0	0	195
PL.6344	PL.5524	ABC	#4/0 ACSR	7.30Y	121.7	0.01	3.34	17.82	5	382	81	98	0.01	0.0	3.976	0.035	16	3	2	68
PL.6345	PL.6344	ABC	#4/0 ACSR	7.30Y	121.6	0.01	3.35	17.08	5	366	78	98	0.02	0.0	4.026	0.050	9	2	2	66
PL.5420	PL.6345	ABC	#1/0 ACSR	7.30Y	121.6	0.02	3.37	16.64	7	356	76	98	0.05	0.0	4.094	0.068	0	0	0	64
PL.5750	PL.5420	ABC	#1/0 ACSR	7.30Y	121.6	0.04	3.41	14.14	6	303	65	98	0.09	0.0	4.264	0.171	0	0	0	58
PL.6657	PL.5750	A	#1/0 ACSR	7.30Y	121.6	0.00	3.41	0.52	0	4	1	97	0.00	0.0	4.269	0.005	0	0	0	1
PD.1359	PL.6657	A	30T	7.30Y	121.6	0.00	3.41	0.52	0	4	1	97	0.00	0.0	4.269	0.005	0	0	0	1
PL.6658	PD.1359	A	#1/0 ACSR	7.30Y	121.6	0.00	3.41	0.52	0	4	1	97	0.00	0.0	4.297	0.028	4	1	1	1
PL.7257	PL.5750	ABC	#1/0 ACSR	7.29Y	121.6	0.02	3.43	13.97	6	299	64	98	0.03	0.0	4.330	0.066	8	2	1	57
PL.7258	PL.7257	ABC	#1/0 ACSR	7.29Y	121.5	0.04	3.47	13.60	6	291	62	98	0.08	0.0	4.505	0.175	8	2	1	56
PL.5751	PL.7258	ABC	#1/0 ACSR	7.29Y	121.5	0.04	3.51	12.58	5	269	57	98	0.07	0.0	4.679	0.174	2	0	1	53
PL.6343	PL.5751	ABC	#1/0 ACSR	7.29Y	121.5	0.03	3.54	12.50	5	267	57	98	0.06	0.0	4.822	0.143	5	1	1	52
PL.6341	PL.6343	ABC	#1/0 ACSR	7.29Y	121.4	0.01	3.55	12.29	5	263	56	98	0.02	0.0	4.879	0.058	0	0	0	51
PL.6655	PL.6341	A	#1/0 ACSR	7.29Y	121.4	0.00	3.55	0.74	0	5	1	98	0.00	0.0	4.884	0.004	0	0	0	1
PD.1358	PL.6655	A	30T	7.29Y	121.4	0.00	3.55	0.74	0	5	1	98	0.00	0.0	4.884	0.004	0	0	0	1
PL.6656	PD.1358	A	#1/0 ACSR	7.29Y	121.4	0.00	3.55	0.74	0	5	1	98	0.00	0.0	4.936	0.052	5	1	1	1
PL.6339	PL.6341	ABC	#1/0 ACSR	7.29Y	121.4	0.01	3.56	12.04	5	257	55	98	0.02	0.0	4.920	0.041	5	1	2	50
PL.6340	PL.6339	ABC	#1/0 ACSR	7.28Y	121.4	0.03	3.59	11.79	5	252	54	98	0.05	0.0	5.061	0.141	0	0	0	48
PL.33045	PL.6340	ABC	#1/0 ACSR	7.28Y	121.4	0.02	3.61	11.79	5	252	53	98	0.03	0.0	5.152	0.091	6	1	3	48
PL.33046	PL.33045	ABC	#1/0 ACSR	7.28Y	121.4	0.01	3.62	11.53	5	246	52	98	0.02	0.0	5.206	0.054	0	0	0	45
PL.6759	PL.33046	B	6 A (CWC)	7.28Y	121.4	0.01	3.62	26.02	19	185	39	98	0.01	0.0	5.211	0.005	0	0	0	33
PD.1417	PL.6759	B	30T	7.28Y	121.4	0.00	3.62	26.02	0	185	39	98	0.00	0.0	5.211	0.005	0	0	0	33
PL.6760	PD.1417	B	6 A (CWC)	7.28Y	121.3	0.05	3.68	26.02	19	185	39	98	0.07	0.0	5.256	0.046	2	0	2	33

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6332	PL.6760	B	6 A (CWC)	7.27Y	121.2	0.10	3.78	24.68	18	176	37	98	0.13	0.1	5.353	0.097	14	3	2	29
PL.6333	PL.6332	B	6 A (CWC)	7.27Y	121.1	0.09	3.87	22.74	16	162	34	98	0.11	0.1	5.444	0.091	0	0	0	27
PL.6326	PL.6333	B	6 A (CWC)	7.27Y	121.1	0.03	3.90	14.67	10	104	22	98	0.02	0.0	5.495	0.051	19	4	4	20
PL.6327	PL.6326	B	6 A (CWC)	7.26Y	121.1	0.04	3.94	11.99	9	85	18	98	0.02	0.0	5.564	0.069	0	0	0	16
PL.5466	PL.6327	B	6 A (CWC)	7.26Y	121.1	0.00	3.94	2.09	1	15	3	98	0.00	0.0	5.594	0.030	9	2	2	3
PL.5468	PL.5466	B	#1/0 ACSR	7.26Y	121.1	0.00	3.94	0.84	0	6	1	99	0.00	0.0	5.669	0.075	6	1	1	1
PL.5467	PL.6327	B	6 A (CWC)	7.26Y	121.1	0.00	3.94	0.70	1	5	1	98	0.00	0.0	5.632	0.067	5	1	1	1
PL.6007	PL.6327	B	6 A (CWC)	7.26Y	121.0	0.03	3.97	9.20	7	65	14	98	0.02	0.0	5.648	0.084	8	2	1	12
PL.6324	PL.6007	B	#1/0 ACSR	7.26Y	121.0	0.01	3.99	8.13	4	58	12	98	0.01	0.0	5.722	0.074	2	0	2	11
PL.6325	PL.6324	B	#1/0 ACSR	7.26Y	121.0	0.01	4.00	7.80	3	55	12	98	0.00	0.0	5.790	0.068	0	0	0	9
PL.5469	PL.6325	B	#2 ACSR	7.26Y	121.0	0.00	4.00	2.34	1	17	4	97	0.00	0.0	5.813	0.023	10	2	2	3
PL.7256	PL.5469	B	#1/0 ACSR	7.26Y	121.0	0.00	4.00	0.97	0	7	1	99	0.00	0.0	5.882	0.069	7	1	1	1
PL.5753	PL.6325	B	#1/0 ACSR	7.26Y	121.0	0.01	4.00	3.84	2	27	6	98	0.00	0.0	5.864	0.074	0	0	0	3
PL.5471	PL.5753	B	#1/0 ACSR	7.26Y	121.0	0.00	4.01	3.45	2	25	5	98	0.00	0.0	5.904	0.040	10	2	1	2
PL.5472	PL.5471	B	#1/0 ACSR	7.26Y	121.0	0.00	4.01	2.06	1	15	3	98	0.00	0.0	5.953	0.050	15	3	1	1
PL.5754	PL.5753	B	#1/0 ACSR	7.26Y	121.0	0.00	4.00	0.38	0	3	1	95	0.00	0.0	5.926	0.062	3	1	1	1
PL.5962	PL.5754	B	6 A (CWC)	7.26Y	121.0	0.00	4.00	0.00	0	0	0	100	0.00	0.0	5.931	0.005	0	0	0	0
PD.1441-A	PL.5962	B	Open	7.26Y	121.0	0.00	4.00	0.00	0	0	0	100	0.00	0.0	5.931	0.005	0	0	0	0
PL.25732	PL.6325	B	#1/0 ACSR	7.26Y	121.0	0.00	4.00	1.63	1	12	2	99	0.00	0.0	5.843	0.053	6	1	1	3
PL.25733	PL.25732	B	#1/0 ACSR	7.26Y	121.0	0.00	4.00	0.74	0	5	1	98	0.00	0.0	5.896	0.052	5	1	2	2
PL.6330	PL.6333	B	#2 ACSR	7.27Y	121.1	0.00	3.88	2.95	2	21	4	98	0.00	0.0	5.486	0.043	15	3	2	3
PL.6331	PL.6330	B	#2 ACSR	7.27Y	121.1	0.00	3.88	0.83	0	6	1	99	0.00	0.0	5.528	0.042	6	1	1	1
PL.6328	PL.6333	B	#4 ACSR	7.27Y	121.1	0.01	3.88	5.12	4	36	8	98	0.00	0.0	5.486	0.043	26	6	3	4
PL.6329	PL.6328	B	#4 ACSR	7.27Y	121.1	0.00	3.88	1.43	1	10	2	98	0.00	0.0	5.539	0.052	10	2	1	1
PL.5465	PL.6760	B	#4 ACSR	7.28Y	121.3	0.00	3.68	1.04	1	7	2	96	0.00	0.0	5.294	0.037	7	2	2	2
PL.6651	PL.33046	C	#1/0 ACSR	7.28Y	121.4	0.00	3.62	0.65	0	5	1	98	0.00	0.0	5.234	0.028	0	0	0	1
PD.1356	PL.6651	C	30T	7.28Y	121.4	0.00	3.62	0.65	0	5	1	98	0.00	0.0	5.234	0.028	0	0	0	1
PL.6652	PD.1356	C	#1/0 ACSR	7.28Y	121.4	0.00	3.62	0.65	0	5	1	98	0.00	0.0	5.346	0.112	5	1	1	1
PL.6761	PL.33046	A	#1/0 ACSR	7.28Y	121.4	0.00	3.62	7.92	3	56	12	98	0.00	0.0	5.210	0.004	0	0	0	11
PD.1418	PL.6761	A	30T	7.28Y	121.4	0.00	3.62	7.92	0	56	12	98	0.00	0.0	5.210	0.004	0	0	0	11
PL.6762	PD.1418	A	#1/0 ACSR	7.28Y	121.4	0.01	3.63	7.92	3	56	12	98	0.00	0.0	5.249	0.039	9	2	1	11

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PL.6337	PL.6762	A	6 A (CWC)	7.28Y	121.4	0.01	3.63	6.62	5	47	10	98	0.00	0.0	5.276	0.026	5	1	1	10
PL.6338	PL.6337	A	6 A (CWC)	7.28Y	121.4	0.01	3.64	5.94	4	42	9	98	0.00	0.0	5.305	0.029	2	1	1	9
PL.6336	PL.6338	A	6 A (CWC)	7.28Y	121.3	0.01	3.65	5.59	4	40	8	98	0.00	0.0	5.358	0.053	0	0	1	8
PL.6334	PL.6336	A	6 A (CWC)	7.28Y	121.3	0.00	3.66	4.60	3	33	7	98	0.00	0.0	5.375	0.017	7	1	1	6
PL.6335	PL.6334	A	6 A (CWC)	7.28Y	121.3	0.01	3.66	3.63	3	26	5	98	0.00	0.0	5.429	0.054	15	3	2	5
PL.5457	PL.6335	A	#4 ACSR	7.28Y	121.3	0.00	3.66	0.00	0	0	0	100	0.00	0.0	5.494	0.065	0	0	0	0
PL.5458	PL.6335	A	#1/0 ACSR	7.28Y	121.3	0.00	3.66	0.54	0	4	1	97	0.00	0.0	5.491	0.062	4	1	2	2
PL.5459	PL.6335	A	#2 ACSR	7.28Y	121.3	0.00	3.66	0.99	1	7	1	99	0.00	0.0	5.497	0.068	7	1	1	1
PL.5479	PL.6336	A	#1/0 ACSR	7.28Y	121.3	0.00	3.65	0.92	0	7	1	99	0.00	0.0	5.405	0.047	7	1	1	1
PL.6653	PL.6340	A	#2 ACSR	7.28Y	121.4	0.00	3.59	0.00	0	0	0	100	0.00	0.0	5.066	0.005	0	0	0	0
PD.1357	PL.6653	A	30T	7.28Y	121.4	0.00	3.59	0.00	0	0	0	100	0.00	0.0	5.066	0.005	0	0	0	0
PL.6654	PD.1357	A	#2 ACSR	7.28Y	121.4	0.00	3.59	0.00	0	0	0	100	0.00	0.0	5.093	0.027	0	0	0	0
PL.6757	PL.7258	C	#1/0 ACSR	7.29Y	121.5	0.00	3.47	1.91	1	14	3	98	0.00	0.0	4.510	0.005	0	0	0	2
PD.1416	PL.6757	C	30T	7.29Y	121.5	0.00	3.47	1.91	0	14	3	98	0.00	0.0	4.510	0.005	0	0	0	2
PL.6758	PD.1416	C	#1/0 ACSR	7.29Y	121.5	0.00	3.47	1.91	1	14	3	98	0.00	0.0	4.599	0.089	14	3	2	2
PL.5419	PL.5420	A	#1/0 ACSR	7.30Y	121.6	0.01	3.38	7.49	3	53	11	98	0.00	0.0	4.132	0.038	3	1	1	6
PL.6743	PL.5419	A	6 A (CWC)	7.30Y	121.6	0.00	3.38	7.09	5	51	11	98	0.00	0.0	4.136	0.005	0	0	0	5
PD.1409	PL.6743	A	30T	7.30Y	121.6	0.00	3.38	7.09	0	51	11	98	0.00	0.0	4.136	0.005	0	0	0	5
PL.6744	PD.1409	A	6 A (CWC)	7.30Y	121.6	0.01	3.39	7.09	5	51	11	98	0.00	0.0	4.168	0.031	18	4	2	5
PL.5526	PL.6744	A	6 A (CWC)	7.30Y	121.6	0.01	3.40	4.52	3	32	7	98	0.00	0.0	4.243	0.075	14	3	1	3
PL.5525	PL.5526	A	6 A (CWC)	7.30Y	121.6	0.00	3.40	2.57	2	18	4	98	0.00	0.0	4.295	0.052	11	2	1	2
PL.5428	PL.5525	A	#4 ACSR	7.30Y	121.6	0.00	3.41	1.00	1	7	2	96	0.00	0.0	4.331	0.036	7	2	1	1
PL.5421	PL.5524	ABC	#1/0 ACSR	7.30Y	121.6	0.02	3.36	28.42	12	609	130	98	0.10	0.0	3.989	0.048	0	0	0	127
PL.5756	PL.5421	ABC	#1/0 ACSR	7.30Y	121.6	0.02	3.38	27.72	12	594	126	98	0.08	0.0	4.029	0.040	0	0	0	124
PL.6747	PL.5756	A	#1/0 ACSR	7.30Y	121.6	0.00	3.38	20.46	9	146	31	98	0.00	0.0	4.034	0.005	0	0	0	30
PD.1411	PL.6747	A	30T	7.30Y	121.6	0.00	3.38	20.46	0	146	31	98	0.00	0.0	4.034	0.005	0	0	0	30
PL.6748	PD.1411	A	#1/0 ACSR	7.30Y	121.6	0.01	3.39	20.46	9	146	31	98	0.01	0.0	4.053	0.020	0	0	1	30
PL.5431	PL.6748	A	#1/0 ACSR	7.30Y	121.6	0.02	3.41	20.46	9	146	31	98	0.02	0.0	4.087	0.034	0	0	0	29
PL.5522	PL.5431	A	#1/0 ACSR	7.30Y	121.6	0.00	3.41	4.69	2	33	7	98	0.00	0.0	4.138	0.052	6	1	1	5
PL.5523	PL.5522	A	#1/0 ACSR	7.30Y	121.6	0.00	3.41	3.82	2	27	6	98	0.00	0.0	4.175	0.037	20	4	3	4
PL.5521	PL.5523	A	#1/0 ACSR	7.29Y	121.6	0.00	3.42	1.05	0	8	2	97	0.00	0.0	4.381	0.206	8	2	1	1

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PL.5429	PL.5431	A	#1/0 ACSR	7.30Y	121.6	0.00	3.41	0.00	0	0	0	100	0.00	0.0	4.105	0.018	0	0	0	0
PL.5989	PL.5431	A	#1/0 ACSR	7.29Y	121.6	0.02	3.43	15.77	7	113	24	98	0.01	0.0	4.148	0.062	15	3	3	24
PL.5430	PL.5989	A	#2 ACSR	7.29Y	121.6	0.00	3.43	1.23	1	9	2	98	0.00	0.0	4.179	0.030	9	2	2	2
PL.5990	PL.5989	A	#1/0 ACSR	7.29Y	121.6	0.02	3.44	12.44	5	89	19	98	0.01	0.0	4.207	0.059	10	2	2	19
PL.6362	PL.5990	A	6 A (CWC)	7.29Y	121.5	0.02	3.47	10.98	8	78	17	98	0.01	0.0	4.260	0.053	7	2	1	17
PL.5517	PL.6362	A	6 A (CWC)	7.29Y	121.5	0.01	3.48	9.93	7	71	15	98	0.01	0.0	4.300	0.039	33	7	7	16
PL.6361	PL.5517	A	6 A (CWC)	7.29Y	121.5	0.01	3.49	5.31	4	38	8	98	0.00	0.0	4.331	0.031	0	0	2	9
PL.6313	PL.6361	A	6 A (CWC)	7.29Y	121.5	0.02	3.51	5.30	4	38	8	98	0.00	0.0	4.406	0.074	4	1	1	6
PL.6312	PL.6313	A	6 A (CWC)	7.29Y	121.5	0.00	3.51	4.71	3	34	7	98	0.00	0.0	4.415	0.009	0	0	0	5
PL.5434	PL.6312	A	#2 ACSR	7.29Y	121.5	0.00	3.51	2.98	2	21	4	98	0.00	0.0	4.474	0.059	11	2	1	3
PL.5435	PL.5434	A	#1/0 ACSR	7.29Y	121.5	0.00	3.51	1.50	1	11	2	98	0.00	0.0	4.568	0.094	11	2	2	2
PL.5433	PL.6312	A	#4 ACSR	7.29Y	121.5	0.00	3.51	0.86	1	6	1	99	0.00	0.0	4.436	0.021	6	1	1	1
PL.21295	PL.6312	A	#1/0 ACSR	7.29Y	121.5	0.00	3.51	0.87	0	6	1	99	0.00	0.0	4.483	0.068	6	1	1	1
PL.65719	PL.6361	A	#1/0 ACSR	7.29Y	121.5	0.00	3.49	0.00	0	0	0	100	0.00	0.0	4.395	0.063	0	0	0	1
PL.65720	PL.65719	A	#1/0 ACSR	7.29Y	121.5	0.00	3.49	0.00	0	0	0	100	0.00	0.0	4.433	0.039	0	0	1	1
PL.5757	PL.5756	ABC	#1/0 ACSR	7.30Y	121.6	0.02	3.40	20.32	9	435	93	98	0.05	0.0	4.077	0.048	0	0	0	92
PL.6645	PL.5757	A	#1/0 ACSR	7.30Y	121.6	0.00	3.40	2.31	1	16	3	98	0.00	0.0	4.082	0.005	0	0	0	3
PD.1354	PL.6645	A	15T	7.30Y	121.6	0.00	3.40	2.31	0	16	3	98	0.00	0.0	4.082	0.005	0	0	0	3
PL.6646	PD.1354	A	#1/0 ACSR	7.30Y	121.6	0.00	3.40	2.31	1	16	3	98	0.00	0.0	4.099	0.017	16	3	3	3
PL.6647	PL.5757	ABC	#1/0 ACSR	7.30Y	121.6	0.00	3.40	19.55	9	419	89	98	0.00	0.0	4.082	0.004	0	0	0	89
PL.6648	PL.6647	ABC	#1/0 ACSR	7.29Y	121.6	0.04	3.44	19.55	9	419	89	98	0.13	0.0	4.212	0.131	0	0	0	89
PL.6643	PL.6648	A	#1/0 ACSR	7.29Y	121.6	0.00	3.44	0.24	0	2	0	100	0.00	0.0	4.217	0.005	0	0	0	1
PD.1353	PL.6643	A	30T	7.29Y	121.6	0.00	3.44	0.24	0	2	0	100	0.00	0.0	4.217	0.005	0	0	0	1
PL.6644	PD.1353	A	#1/0 ACSR	7.29Y	121.6	0.00	3.44	0.24	0	2	0	100	0.00	0.0	4.245	0.028	2	0	1	1
PL.5758	PL.6648	ABC	#1/0 ACSR	7.29Y	121.5	0.05	3.49	18.19	8	389	83	98	0.14	0.0	4.367	0.154	0	0	0	84
PL.5759	PL.5758	ABC	#1/0 ACSR	7.29Y	121.5	0.02	3.52	16.32	7	349	74	98	0.06	0.0	4.446	0.079	0	0	0	76
PL.5760	PL.5759	ABC	#1/0 ACSR	7.29Y	121.5	0.02	3.54	15.91	7	340	72	98	0.06	0.0	4.531	0.086	0	0	0	75
PL.6637	PL.5760	C	#1/0 ACSR	7.29Y	121.5	0.00	3.54	1.74	1	12	3	97	0.00	0.0	4.536	0.005	0	0	0	3
PD.1350	PL.6637	C	30T	7.29Y	121.5	0.00	3.54	1.74	0	12	3	97	0.00	0.0	4.536	0.005	0	0	0	3
PL.6638	PD.1350	C	#1/0 ACSR	7.29Y	121.5	0.00	3.54	1.74	1	12	3	97	0.00	0.0	4.557	0.021	12	3	3	3
PL.6306	PL.5760	ABC	#1/0 ACSR	7.29Y	121.4	0.01	3.55	15.33	7	328	70	98	0.03	0.0	4.583	0.051	15	3	1	72

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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6307	PL.6306	ABC	#1/0 ACSR	7.29Y	121.4	0.01	3.57	14.63	6	313	67	98	0.03	0.0	4.640	0.058	0	0	0	71
PL.6751	PL.6307	C	#1/0 ACSR	7.29Y	121.4	0.00	3.57	1.08	0	8	2	97	0.00	0.0	4.645	0.005	0	0	0	1
PD.1413	PL.6751	C	30T	7.29Y	121.4	0.00	3.57	1.08	0	8	2	97	0.00	0.0	4.645	0.005	0	0	0	1
PL.6752	PD.1413	C	#1/0 ACSR	7.29Y	121.4	0.00	3.57	1.08	0	8	2	97	0.00	0.0	4.686	0.041	8	2	1	1
PL.5761	PL.6307	ABC	#1/0 ACSR	7.28Y	121.4	0.02	3.58	14.14	6	302	64	98	0.04	0.0	4.706	0.066	0	0	0	69
PL.6304	PL.5761	ABC	#1/0 ACSR	7.28Y	121.4	0.01	3.60	12.36	5	264	56	98	0.02	0.0	4.761	0.055	12	2	3	64
PL.6305	PL.6304	ABC	#1/0 ACSR	7.28Y	121.4	0.01	3.61	11.81	5	252	54	98	0.02	0.0	4.828	0.067	9	2	1	61
PL.6303	PL.6305	ABC	#1/0 ACSR	7.28Y	121.4	0.01	3.62	11.38	5	243	52	98	0.01	0.0	4.863	0.034	6	1	1	60
PL.6302	PL.6303	ABC	#1/0 ACSR	7.28Y	121.4	0.01	3.63	11.12	5	238	51	98	0.02	0.0	4.917	0.054	12	2	3	59
PL.5440	PL.6302	C	#4 ACSR	7.28Y	121.4	0.02	3.65	18.78	14	134	29	98	0.02	0.0	4.945	0.028	0	0	0	38
PL.6826	PL.5440	C	#4 ACSR	7.28Y	121.3	0.00	3.65	18.78	14	134	29	98	0.00	0.0	4.947	0.003	0	0	0	38
PD.1455	PL.6826	C	50H	7.28Y	121.3	0.00	3.65	18.78	38	134	29	98	0.00	0.0	4.947	0.003	0	0	0	38
PL.6827	PD.1455	C	#4 ACSR	7.25Y	120.9	0.44	4.09	18.78	14	134	29	98	0.45	0.3	5.485	0.537	0	0	1	38
PL.6360	PL.6827	C	#4 ACSR	7.25Y	120.8	0.12	4.21	18.74	14	133	28	98	0.12	0.1	5.629	0.144	0	0	0	37
PL.5450	PL.6360	C	#4 ACSR	7.25Y	120.8	0.00	4.21	0.51	0	4	1	97	0.00	0.0	5.744	0.115	4	1	1	1
PL.6357	PL.6360	C	#4 ACSR	7.25Y	120.8	0.03	4.24	18.23	14	129	27	98	0.03	0.0	5.667	0.038	11	2	1	36
PL.6358	PL.6357	C	#4 ACSR	7.24Y	120.7	0.03	4.27	16.70	13	118	25	98	0.02	0.0	5.705	0.039	14	3	2	35
PL.5977	PL.6358	C	#1/0 ACSR	7.24Y	120.7	0.00	4.27	1.12	0	8	2	97	0.00	0.0	5.773	0.067	0	0	0	3
PL.5451	PL.5977	C	#4 ACSR	7.24Y	120.7	0.00	4.27	0.50	0	4	1	97	0.00	0.0	5.904	0.131	4	1	1	1
PL.6355	PL.5977	C	#1/0 ACSR	7.24Y	120.7	0.00	4.27	0.62	0	4	1	97	0.00	0.0	5.796	0.024	2	1	1	2
PL.6356	PL.6355	C	#1/0 ACSR	7.24Y	120.7	0.00	4.27	0.27	0	2	0	100	0.00	0.0	5.859	0.063	2	0	1	1
PL.5978	PL.6358	C	#4 ACSR	7.24Y	120.7	0.05	4.32	13.60	10	96	20	98	0.04	0.0	5.791	0.086	8	2	3	30
PL.6353	PL.5978	C	#4 ACSR	7.24Y	120.7	0.00	4.32	0.43	0	3	1	95	0.00	0.0	5.907	0.116	1	0	1	3
PL.6354	PL.6353	C	#4 ACSR	7.24Y	120.7	0.00	4.32	0.36	0	3	1	95	0.00	0.0	5.940	0.034	1	0	1	2
PL.6659	PL.6354	C	1/0 AL URD	7.24Y	120.7	0.00	4.32	0.23	0	2	0	100	0.00	0.0	5.945	0.005	0	0	0	1
PD.1360	PL.6659	C	20T	7.24Y	120.7	0.00	4.32	0.23	0	2	0	100	0.00	0.0	5.945	0.005	0	0	0	1
PL.6660	PD.1360	C	1/0 AL URD	7.24Y	120.7	0.00	4.32	0.23	0	2	0	100	0.00	0.0	6.010	0.065	2	0	1	1
PL.5976	PL.5978	C	#4 ACSR	7.23Y	120.5	0.21	4.53	11.99	9	85	18	98	0.14	0.2	6.191	0.400	0	0	0	24
PL.6351	PL.5976	C	#4 ACSR	7.23Y	120.5	0.02	4.54	4.79	4	34	7	98	0.00	0.0	6.282	0.092	3	1	2	10
PL.6352	PL.6351	C	#4 ACSR	7.23Y	120.4	0.01	4.56	4.34	3	31	6	98	0.00	0.0	6.344	0.062	0	0	0	8
PL.5452	PL.6352	C	#4 ACSR	7.23Y	120.4	0.00	4.56	1.12	1	8	2	97	0.00	0.0	6.420	0.075	8	2	1	1

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6349	PL.6352	C	#4 ACSR	7.23Y	120.4	0.01	4.57	3.23	2	23	5	98	0.00	0.0	6.445	0.100	2	0	1	7
PL.6350	PL.6349	C	#4 ACSR	7.23Y	120.4	0.00	4.57	2.95	2	21	4	98	0.00	0.0	6.477	0.032	1	0	1	6
PL.6348	PL.6350	C	#4 ACSR	7.23Y	120.4	0.01	4.58	2.78	2	20	4	98	0.00	0.0	6.554	0.077	5	1	2	5
PL.6347	PL.6348	C	#4 ACSR	7.22Y	120.4	0.00	4.59	2.09	2	15	3	98	0.00	0.0	6.600	0.046	0	0	0	3
PL.6346	PL.6347	C	#4 ACSR	7.22Y	120.4	0.00	4.59	2.09	2	15	3	98	0.00	0.0	6.628	0.029	0	0	0	3
PL.5765	PL.6346	C	#4 ACSR	7.22Y	120.4	0.00	4.59	0.97	1	7	1	99	0.00	0.0	6.656	0.028	7	1	2	2
PL.5453	PL.6346	C	#1/0 ACSR	7.22Y	120.4	0.00	4.59	1.11	0	8	2	97	0.00	0.0	6.704	0.075	8	2	1	1
PL.5764	PL.5976	C	#4 ACSR	7.23Y	120.4	0.04	4.57	7.20	6	51	11	98	0.02	0.0	6.325	0.135	0	0	1	14
PL.6753	PL.5764	C	#4 ACSR	7.23Y	120.4	0.00	4.57	1.77	1	12	3	97	0.00	0.0	6.330	0.005	0	0	0	3
PD.1414	PL.6753	C	20T	7.23Y	120.4	0.00	4.57	1.77	0	12	3	97	0.00	0.0	6.330	0.005	0	0	0	3
PL.6754	PD.1414	C	#4 ACSR	7.22Y	120.4	0.04	4.60	1.77	1	12	3	97	0.00	0.0	6.824	0.494	1	0	1	3
PL.5974	PL.6754	C	#4 ACSR	7.22Y	120.4	0.01	4.61	1.56	1	11	2	98	0.00	0.0	6.937	0.113	0	0	0	1
PL.5449	PL.5974	C	#2 ACSR	7.22Y	120.4	0.00	4.61	0.00	0	0	0	100	0.00	0.0	6.972	0.035	0	0	0	0
PL.5463	PL.5974	C	#4 ACSR	7.22Y	120.4	0.01	4.62	1.56	1	11	2	98	0.00	0.0	7.133	0.196	11	2	1	1
PL.5975	PL.6754	C	#4 ACSR	7.22Y	120.4	0.00	4.60	0.00	0	0	0	100	0.00	0.0	6.914	0.090	0	0	1	1
PL.6755	PL.5764	C	#4 ACSR	7.23Y	120.4	0.00	4.57	5.43	4	38	8	98	0.00	0.0	6.330	0.005	0	0	0	10
PD.1415	PL.6755	C	20T	7.23Y	120.4	0.00	4.57	5.43	0	38	8	98	0.00	0.0	6.330	0.005	0	0	0	10
PL.6756	PD.1415	C	#4 ACSR	7.22Y	120.4	0.07	4.64	5.43	4	38	8	98	0.02	0.1	6.647	0.317	0	0	1	10
PL.6323	PL.6756	C	#4 ACSR	7.22Y	120.3	0.04	4.68	5.37	4	38	8	98	0.01	0.0	6.813	0.166	0	0	1	9
PL.6318	PL.6323	C	#4 ACSR	7.22Y	120.3	0.01	4.69	5.31	4	38	8	98	0.00	0.0	6.853	0.041	9	2	1	6
PL.6319	PL.6318	C	#4 ACSR	7.22Y	120.3	0.01	4.70	3.98	3	28	6	98	0.00	0.0	6.887	0.034	0	0	0	5
PL.5455	PL.6319	C	#4 ACSR	7.22Y	120.3	0.05	4.75	3.98	3	28	6	98	0.01	0.0	7.227	0.339	11	2	2	5
PL.6316	PL.5455	C	#4 ACSR	7.22Y	120.3	0.00	4.75	1.50	1	11	2	98	0.00	0.0	7.248	0.022	0	0	0	1
PL.6649	PL.6316	C	#1/0 ACSR	7.22Y	120.3	0.00	4.75	1.50	1	11	2	98	0.00	0.0	7.253	0.005	0	0	0	1
PD.1355	PL.6649	C	12T	7.22Y	120.3	0.00	4.75	1.50	0	11	2	98	0.00	0.0	7.253	0.005	0	0	0	1
PL.6650	PD.1355	C	#1/0 ACSR	7.22Y	120.3	0.00	4.75	1.50	1	11	2	98	0.00	0.0	7.278	0.025	11	2	1	1
PL.6317	PL.5455	C	#4 ACSR	7.22Y	120.3	0.00	4.75	0.98	1	7	1	99	0.00	0.0	7.306	0.079	0	0	1	2
PL.6315	PL.6317	C	#4 ACSR	7.21Y	120.2	0.00	4.75	0.98	1	7	1	99	0.00	0.0	7.391	0.086	7	1	1	1
PL.5454	PL.6323	C	6 A (CWC)	7.22Y	120.3	0.00	4.68	0.01	0	0	0	100	0.00	0.0	6.918	0.106	0	0	1	2
PL.6320	PL.5454	C	6 A (CWC)	7.22Y	120.3	0.00	4.68	0.00	0	0	0	100	0.00	0.0	7.009	0.090	0	0	0	1
PL.6321	PL.6320	C	6 A (CWC)	7.22Y	120.3	0.00	4.68	0.00	0	0	0	100	0.00	0.0	7.077	0.069	0	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.28279	PL.5764	C	#1/0 ACSR	7.23Y	120.4	0.00	4.57	0.00	0	0	0	100	0.00	0.0	6.376	0.051	0	0	0	0
PL.5441	PL.6302	A	6 A (CWC)	7.28Y	121.4	0.01	3.64	12.97	9	92	20	98	0.01	0.0	4.942	0.026	0	0	0	18
PL.6813	PL.5441	A	6 A (CWC)	7.28Y	121.4	0.00	3.64	12.97	9	92	20	98	0.00	0.0	4.945	0.003	0	0	0	18
PD.1446	PL.6813	A	35H	7.28Y	121.4	0.00	3.64	12.97	37	92	20	98	0.00	0.0	4.945	0.003	0	0	0	18
PL.6814	PD.1446	A	6 A (CWC)	7.28Y	121.3	0.04	3.68	12.97	9	92	20	98	0.03	0.0	5.013	0.068	9	2	1	18
PL.6301	PL.6814	A	6 A (CWC)	7.28Y	121.3	0.02	3.70	11.68	8	83	18	98	0.01	0.0	5.050	0.037	13	3	2	17
PL.6300	PL.6301	A	6 A (CWC)	7.28Y	121.3	0.04	3.73	9.86	7	70	15	98	0.02	0.0	5.142	0.092	13	3	3	15
PL.6299	PL.6300	A	6 A (CWC)	7.27Y	121.2	0.11	3.85	7.97	6	57	12	98	0.05	0.1	5.454	0.312	1	0	1	12
PL.5980	PL.6299	A	6 A (CWC)	7.26Y	121.1	0.09	3.94	6.99	5	50	11	98	0.03	0.1	5.741	0.287	0	0	0	7
PL.5763	PL.5980	A	6 A (CWC)	7.26Y	121.0	0.04	3.97	5.88	4	42	9	98	0.01	0.0	5.917	0.176	12	3	2	5
PL.5443	PL.5763	A	6 A (CWC)	7.26Y	121.0	0.02	4.00	4.10	3	29	6	98	0.00	0.0	6.031	0.115	0	0	0	2
PL.5448	PL.5443	A	6 A (CWC)	7.26Y	121.0	0.00	4.00	1.88	1	13	3	97	0.00	0.0	6.055	0.024	0	0	0	1
PL.5447	PL.5448	A	6 A (CWC)	7.26Y	121.0	0.00	4.00	1.88	1	13	3	97	0.00	0.0	6.083	0.028	13	3	1	1
PL.5446	PL.5443	A	6 A (CWC)	7.26Y	121.0	0.02	4.02	2.22	2	16	3	98	0.00	0.0	6.225	0.194	0	0	0	1
PL.6297	PL.5446	A	6 A (CWC)	7.26Y	121.0	0.01	4.02	2.22	2	16	3	98	0.00	0.0	6.341	0.116	16	3	1	1
PL.5462	PL.5763	A	6 A (CWC)	7.26Y	121.0	0.00	3.98	0.09	0	1	0	100	0.00	0.0	6.036	0.119	1	0	1	1
PL.5444	PL.5980	A	#2 ACSR	7.26Y	121.1	0.00	3.94	0.02	0	0	0	100	0.00	0.0	5.823	0.082	0	0	1	1
PL.5456	PL.5980	A	#1/0 ACSR	7.26Y	121.1	0.00	3.94	1.09	0	8	2	97	0.00	0.0	5.795	0.055	8	2	1	1
PL.6298	PL.6299	A	#4 ACSR	7.27Y	121.2	0.00	3.85	0.80	1	6	1	99	0.00	0.0	5.492	0.038	0	0	1	4
PL.6633	PL.6298	A	#4 ACSR	7.27Y	121.2	0.00	3.85	0.76	1	5	1	98	0.00	0.0	5.496	0.005	0	0	0	3
PD.1347	PL.6633	A	10T	7.27Y	121.2	0.00	3.85	0.76	0	5	1	98	0.00	0.0	5.496	0.005	0	0	0	3
PL.6634	PD.1347	A	#4 ACSR	7.27Y	121.1	0.01	3.85	0.76	1	5	1	98	0.00	0.0	5.910	0.414	5	1	3	3
PL.7201	PL.5761	C	#1/0 ACSR	7.28Y	121.4	0.00	3.58	5.35	2	38	8	98	0.00	0.0	4.708	0.002	0	0	0	5
PD.1545	PL.7201	C	30T	7.28Y	121.4	0.00	3.58	5.35	0	38	8	98	0.00	0.0	4.708	0.002	0	0	0	5
PL.7202	PD.1545	C	#1/0 ACSR	7.28Y	121.4	0.00	3.58	5.35	2	38	8	98	0.00	0.0	4.711	0.003	0	0	0	5
PL.5762	PL.7202	C	#1/0 ACSR	7.28Y	121.4	0.00	3.59	2.37	1	17	4	97	0.00	0.0	4.728	0.017	17	4	2	2
PL.5981	PL.7202	C	#1/0 ACSR	7.28Y	121.4	0.00	3.59	2.98	1	21	4	98	0.00	0.0	4.715	0.004	0	0	0	3
PL.5437	PL.5981	C	#1/0 ACSR	7.28Y	121.4	0.00	3.59	2.98	1	21	4	98	0.00	0.0	4.740	0.025	0	0	0	3
PL.5438	PL.5437	C	6 A (CWC)	7.28Y	121.4	0.01	3.59	2.98	2	21	4	98	0.00	0.0	4.819	0.079	21	4	3	3
PL.6635	PL.6307	C	#1/0 ACSR	7.29Y	121.4	0.00	3.57	0.39	0	3	1	95	0.00	0.0	4.645	0.005	0	0	0	1
PD.1349	PL.6635	C	30T	7.29Y	121.4	0.00	3.57	0.39	0	3	1	95	0.00	0.0	4.645	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6636	PD.1349	C	#1/0 ACSR	7.29Y	121.4	0.00	3.57	0.39	0	3	1	95	0.00	0.0	4.666	0.021	3	1	1	1
PL.6639	PL.5759	C	#1/0 ACSR	7.29Y	121.5	0.00	3.52	1.23	1	9	2	98	0.00	0.0	4.450	0.005	0	0	0	1
PD.1351	PL.6639	C	30T	7.29Y	121.5	0.00	3.52	1.23	0	9	2	98	0.00	0.0	4.450	0.005	0	0	0	1
PL.6640	PD.1351	C	#1/0 ACSR	7.29Y	121.5	0.00	3.52	1.23	1	9	2	98	0.00	0.0	4.475	0.025	9	2	1	1
PL.6641	PL.5758	A	#1/0 ACSR	7.29Y	121.5	0.00	3.49	5.62	2	40	8	98	0.00	0.0	4.371	0.005	0	0	0	8
PD.1352	PL.6641	A	30T	7.29Y	121.5	0.00	3.49	5.62	0	40	8	98	0.00	0.0	4.371	0.005	0	0	0	8
PL.6642	PD.1352	A	#1/0 ACSR	7.29Y	121.5	0.00	3.49	5.62	2	40	8	98	0.00	0.0	4.376	0.004	10	2	2	8
PL.6311	PL.6642	A	#1/0 ACSR	7.29Y	121.5	0.00	3.50	4.28	2	31	6	98	0.00	0.0	4.432	0.057	6	1	1	6
PL.6310	PL.6311	A	#1/0 ACSR	7.29Y	121.5	0.01	3.51	3.47	2	25	5	98	0.00	0.0	4.549	0.117	10	2	1	5
PL.5436	PL.6310	A	#4 ACSR	7.29Y	121.5	0.00	3.51	0.88	1	6	1	99	0.00	0.0	4.596	0.046	6	1	1	1
PL.6308	PL.6310	A	#1/0 ACSR	7.29Y	121.5	0.00	3.51	1.24	1	9	2	98	0.00	0.0	4.599	0.050	0	0	2	3
PL.6309	PL.6308	A	#1/0 ACSR	7.29Y	121.5	0.00	3.51	1.22	1	9	2	98	0.00	0.0	4.643	0.044	9	2	1	1
PL.6749	PL.6648	C	#1/0 ACSR	7.29Y	121.6	0.00	3.45	3.83	2	27	6	98	0.00	0.0	4.218	0.005	0	0	0	4
PD.1412	PL.6749	C	30T	7.29Y	121.6	0.00	3.45	3.83	0	27	6	98	0.00	0.0	4.218	0.005	0	0	0	4
PL.6750	PD.1412	C	#1/0 ACSR	7.29Y	121.6	0.00	3.45	3.83	2	27	6	98	0.00	0.0	4.274	0.056	27	6	4	4
PL.6663	PL.5756	A	#4 ACSR	7.30Y	121.6	0.00	3.38	1.74	1	12	3	97	0.00	0.0	4.034	0.005	0	0	0	2
PD.1362	PL.6663	A	30T	7.30Y	121.6	0.00	3.38	1.74	0	12	3	97	0.00	0.0	4.034	0.005	0	0	0	2
PL.6664	PD.1362	A	#4 ACSR	7.30Y	121.6	0.00	3.38	1.74	1	12	3	97	0.00	0.0	4.062	0.029	0	0	1	2
PL.5520	PL.6664	A	#4 ACSR	7.30Y	121.6	0.00	3.39	1.68	1	12	3	97	0.00	0.0	4.091	0.029	12	3	1	1
PL.6745	PL.5421	C	#1/0 ACSR	7.30Y	121.6	0.00	3.36	2.09	1	15	3	98	0.00	0.0	3.994	0.005	0	0	0	2
PD.1410	PL.6745	C	30T	7.30Y	121.6	0.00	3.36	2.09	0	15	3	98	0.00	0.0	3.994	0.005	0	0	0	2
PL.6746	PD.1410	C	#1/0 ACSR	7.30Y	121.6	0.00	3.36	2.09	1	15	3	98	0.00	0.0	4.018	0.024	15	3	2	2
PL.6665	PL.5421	A	#4 ACSR	7.30Y	121.6	0.00	3.36	0.00	0	0	0	100	0.00	0.0	3.994	0.005	0	0	0	1
PD.1363	PL.6665	A	30T	7.30Y	121.6	0.00	3.36	0.00	0	0	0	100	0.00	0.0	3.994	0.005	0	0	0	1
PL.6666	PD.1363	A	#4 ACSR	7.30Y	121.6	0.00	3.36	0.00	0	0	0	100	0.00	0.0	4.017	0.023	0	0	1	1
PL.5427	PL.5530	B	1/0 AL URD	7.30Y	121.7	0.00	3.26	1.23	1	9	2	98	0.00	0.0	3.772	0.005	0	0	0	3
PD.1364	PL.5427	B	30T	7.30Y	121.7	0.00	3.26	1.23	0	9	2	98	0.00	0.0	3.772	0.005	0	0	0	3
PL.5823	PD.1364	B	1/0 AL URD	7.30Y	121.7	0.00	3.26	1.23	1	9	2	98	0.00	0.0	3.781	0.009	7	2	1	3
PL.5424	PL.5823	B	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.22	0	2	0	100	0.00	0.0	3.836	0.055	2	0	2	2
PL.5426	PL.5424	B	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	3.960	0.123	0	0	0	0
PL.7199	PL.5426	B	1/0 AL URD	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	3.961	0.001	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6671	PL.5748	A	#1/0 ACSR	7.31Y	121.9	0.00	3.09	1.05	0	8	2	97	0.00	0.0	3.449	0.005	0	0	0	1
PD.1367	PL.6671	A	30T	7.31Y	121.9	0.00	3.09	1.05	0	8	2	97	0.00	0.0	3.449	0.005	0	0	0	1
PL.6672	PD.1367	A	#1/0 ACSR	7.31Y	121.9	0.00	3.09	1.05	0	8	2	97	0.00	0.0	3.495	0.046	8	2	1	1
PL.7197	PL.6514	A	#4 ACSR	7.32Y	121.9	0.00	3.05	5.65	4	40	9	98	0.00	0.0	3.388	0.002	0	0	0	8
PD.1544	PL.7197	A	30T	7.32Y	121.9	0.00	3.05	5.65	0	40	9	98	0.00	0.0	3.388	0.002	0	0	0	8
PL.7198	PD.1544	A	#4 ACSR	7.32Y	121.9	0.00	3.05	5.65	4	40	9	98	0.00	0.0	3.391	0.002	0	0	0	8
PL.5747	PL.7198	A	#4 ACSR	7.32Y	121.9	0.00	3.06	2.34	2	17	4	97	0.00	0.0	3.470	0.079	17	4	5	5
PL.5996	PL.7198	A	#4 ACSR	7.32Y	121.9	0.00	3.05	3.31	3	24	5	98	0.00	0.0	3.394	0.003	0	0	0	3
PL.5408	PL.5996	A	#4 ACSR	7.32Y	121.9	0.00	3.06	3.31	3	24	5	98	0.00	0.0	3.441	0.047	24	5	3	3
PL.6741	PL.5998	B	#1/0 ACSR	7.32Y	122.0	0.00	3.00	1.48	1	11	2	98	0.00	0.0	3.303	0.005	0	0	0	1
PD.1408	PL.6741	B	30T	7.32Y	122.0	0.00	3.00	1.48	0	11	2	98	0.00	0.0	3.303	0.005	0	0	0	1
PL.6742	PD.1408	B	#1/0 ACSR	7.32Y	122.0	0.00	3.00	1.48	1	11	2	98	0.00	0.0	3.324	0.021	11	2	1	1
PL.6675	PL.5545	A	6 A (CWC)	7.32Y	122.1	0.00	2.93	0.44	0	3	1	95	0.00	0.0	3.187	0.005	0	0	0	1
PD.1370	PL.6675	A	30T	7.32Y	122.1	0.00	2.93	0.44	0	3	1	95	0.00	0.0	3.187	0.005	0	0	0	1
PL.6676	PD.1370	A	6 A (CWC)	7.32Y	122.1	0.00	2.93	0.44	0	3	1	95	0.00	0.0	3.205	0.018	3	1	1	1
PL.5405	PL.5550	A	#4 ACSR	7.33Y	122.2	0.00	2.80	2.54	2	18	4	98	0.00	0.0	2.974	0.005	0	0	0	5
PD.1371	PL.5405	A	30T	7.33Y	122.2	0.00	2.80	2.54	0	18	4	98	0.00	0.0	2.974	0.005	0	0	0	5
PL.6003	PD.1371	A	6 A (CWC)	7.33Y	122.2	0.00	2.80	0.80	1	6	1	99	0.00	0.0	2.978	0.004	0	0	0	1
PL.5404	PL.6003	A	6 A (CWC)	7.33Y	122.2	0.00	2.80	0.80	1	6	1	99	0.00	0.0	3.028	0.050	6	1	1	1
PL.5745	PD.1371	A	#4 ACSR	7.33Y	122.2	0.00	2.81	1.74	1	12	3	97	0.00	0.0	3.021	0.047	0	0	0	4
PL.5547	PL.5745	A	#4 ACSR	7.33Y	122.2	0.00	2.81	1.74	1	12	3	97	0.00	0.0	3.058	0.037	4	1	2	4
PL.5548	PL.5547	A	#4 ACSR	7.33Y	122.2	0.00	2.81	1.17	1	8	2	97	0.00	0.0	3.103	0.045	0	0	1	2
PL.5546	PL.5548	A	#4 ACSR	7.33Y	122.2	0.00	2.81	1.15	1	8	2	97	0.00	0.0	3.156	0.053	8	2	1	1
PL.6677	PL.5552	B	#4 ACSR	7.34Y	122.3	0.00	2.73	1.09	1	8	2	97	0.00	0.0	2.852	0.005	0	0	0	2
PD.1372	PL.6677	B	30T	7.34Y	122.3	0.00	2.73	1.09	0	8	2	97	0.00	0.0	2.852	0.005	0	0	0	2
PL.6678	PD.1372	B	#4 ACSR	7.34Y	122.3	0.00	2.73	1.09	1	8	2	97	0.00	0.0	2.913	0.061	8	2	2	2
PL.6739	PL.5552	C	#4 ACSR	7.34Y	122.3	0.00	2.73	0.43	0	3	1	95	0.00	0.0	2.852	0.005	0	0	0	2
PD.1407	PL.6739	C	30T	7.34Y	122.3	0.00	2.73	0.43	0	3	1	95	0.00	0.0	2.852	0.005	0	0	0	2
PL.6740	PD.1407	C	#4 ACSR	7.34Y	122.3	0.00	2.73	0.43	0	3	1	95	0.00	0.0	2.932	0.080	1	0	1	2
PL.5400	PL.6740	C	#4 ACSR	7.34Y	122.3	0.00	2.73	0.36	0	3	1	95	0.00	0.0	3.227	0.296	3	1	1	1
PL.6679	PL.6363	C	#1/0 ACSR	7.34Y	122.3	0.00	2.68	4.13	2	30	6	98	0.00	0.0	2.778	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																KW	KVAR	Cons On	Cons Thru	
PD.1373	PL.6679	C	30T	7.34Y	122.3	0.00	2.68	4.13	0	30	6	98	0.00	0.0	2.778	0.005	0	0	0	4
PL.6680	PD.1373	C	#1/0 ACSR	7.34Y	122.3	0.00	2.68	4.13	2	30	6	98	0.00	0.0	2.802	0.024	30	6	4	4
PL.6681	PL.6365	C	6 A (CWC)	7.35Y	122.4	0.00	2.58	0.65	0	5	1	98	0.00	0.0	2.633	0.005	0	0	0	3
PD.1374	PL.6681	C	30T	7.35Y	122.4	0.00	2.58	0.65	0	5	1	98	0.00	0.0	2.633	0.005	0	0	0	3
PL.6682	PD.1374	C	6 A (CWC)	7.34Y	122.4	0.00	2.58	0.65	0	5	1	98	0.00	0.0	2.685	0.051	0	0	1	3
PL.5399	PL.6682	C	6 A (CWC)	7.34Y	122.4	0.00	2.59	0.65	0	5	1	98	0.00	0.0	2.734	0.049	5	1	2	2
PL.6737	PL.6365	A	1/0 AL URD	7.35Y	122.4	0.00	2.58	0.68	0	5	1	98	0.00	0.0	2.633	0.004	0	0	0	1
PD.1406	PL.6737	A	30T	7.35Y	122.4	0.00	2.58	0.68	0	5	1	98	0.00	0.0	2.633	0.004	0	0	0	1
PL.6738	PD.1406	A	1/0 AL URD	7.35Y	122.4	0.00	2.58	0.68	0	5	1	98	0.00	0.0	2.661	0.028	5	1	1	1
PL.6693	PL.6401	C	#2 ACSR	7.36Y	122.6	0.00	2.38	0.90	1	6	1	99	0.00	0.0	2.374	0.005	0	0	0	2
PD.1380	PL.6693	C	65T	7.36Y	122.6	0.00	2.38	0.90	0	6	1	99	0.00	0.0	2.374	0.005	0	0	0	2
PL.6694	PD.1380	C	#2 ACSR	7.36Y	122.6	0.00	2.38	0.90	1	6	1	99	0.00	0.0	2.431	0.057	6	1	1	2
PL.5372	PL.6694	C	#4 ACSR	7.36Y	122.6	0.00	2.38	0.09	0	1	0	100	0.00	0.0	2.486	0.054	1	0	1	1
PL.5367	PL.6011	A	#4 ACSR	7.37Y	122.8	0.00	2.16	1.50	1	11	2	98	0.00	0.0	2.161	0.042	5	1	1	2
PL.5368	PL.5367	A	#4 ACSR	7.37Y	122.8	0.00	2.16	0.85	1	6	1	99	0.00	0.0	2.221	0.060	6	1	1	1
PL.6611	PL.6608	C	#2 ACSR	7.39Y	123.2	0.00	1.80	0.53	0	4	1	97	0.00	0.0	1.741	0.005	0	0	0	1
PD.1336	PL.6611	C	65T	7.39Y	123.2	0.00	1.80	0.53	0	4	1	97	0.00	0.0	1.741	0.005	0	0	0	1
PL.6612	PD.1336	C	#2 ACSR	7.39Y	123.2	0.00	1.80	0.53	0	4	1	97	0.00	0.0	1.891	0.150	4	1	1	1
PL.6723	PL.5354	C	6 A (CWC)	7.39Y	123.2	0.00	1.77	6.66	5	48	10	98	0.00	0.0	1.691	0.005	0	0	0	11
PD.1398	PL.6723	C	65T	7.39Y	123.2	0.00	1.77	6.66	0	48	10	98	0.00	0.0	1.691	0.005	0	0	0	11
PL.6724	PD.1398	C	6 A (CWC)	7.39Y	123.2	0.03	1.79	6.66	5	48	10	98	0.01	0.0	1.779	0.089	2	0	1	11
PL.6012	PL.6724	C	6 A (CWC)	7.39Y	123.2	0.01	1.80	4.93	4	36	8	98	0.00	0.0	1.818	0.039	0	0	0	8
PL.5365	PL.6012	C	#2 ACSR	7.39Y	123.2	0.00	1.80	0.50	0	4	1	97	0.00	0.0	1.872	0.053	4	1	1	1
PL.5366	PL.6012	C	#2 ACSR	7.39Y	123.2	0.00	1.80	1.30	1	9	2	98	0.00	0.0	1.848	0.030	9	2	1	1
PL.6260	PL.6012	C	#2 ACSR	7.39Y	123.2	0.00	1.81	3.12	2	23	5	98	0.00	0.0	1.873	0.055	19	4	4	6
PL.6263	PL.6260	C	#2 ACSR	7.39Y	123.2	0.00	1.81	0.56	0	4	1	97	0.00	0.0	1.918	0.045	4	1	2	2
PL.6264	PL.6263	C	#2 ACSR	7.39Y	123.2	0.00	1.81	0.00	0	0	0	100	0.00	0.0	2.011	0.093	0	0	0	0
PL.6261	PL.6724	C	#2 ACSR	7.39Y	123.2	0.00	1.79	1.49	1	11	2	98	0.00	0.0	1.797	0.017	7	1	1	2
PL.6262	PL.6261	C	#2 ACSR	7.39Y	123.2	0.00	1.79	0.58	0	4	1	97	0.00	0.0	1.843	0.047	4	1	1	1
PL.5343	PL.5338	A	#2 ACSR	7.43Y	123.8	0.01	1.24	8.16	5	59	13	98	0.00	0.0	1.199	0.038	2	1	1	10
PL.5344	PL.5343	A	#2 ACSR	7.43Y	123.8	0.00	1.25	4.66	3	34	7	98	0.00	0.0	1.248	0.049	34	7	4	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6619	PL.5343	A	#2 ACSR	7.43Y	123.8	0.00	1.24	3.16	2	23	5	98	0.00	0.0	1.204	0.005	0	0	0	5
PD.1341	PL.6619	A	40T	7.43Y	123.8	0.00	1.24	3.16	0	23	5	98	0.00	0.0	1.204	0.005	0	0	0	5
PL.6620	PD.1341	A	#2 ACSR	7.43Y	123.8	0.00	1.24	3.16	2	23	5	98	0.00	0.0	1.212	0.008	23	5	5	5
PL.6314	PL.6006	ABC	336 MCM AC	7.43Y	123.9	0.00	1.09	1.78	0	39	8	98	0.00	0.0	1.120	0.084	39	8	6	6
PL.6803	PL.6314	ABC	336 MCM AC	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	1.161	0.040	0	0	0	0
PD.1440-A	PL.6803	ABC	Open	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	1.161	0.040	0	0	0	0
PL.6822	PL.5336	B	6 A (CWC)	7.44Y	124.0	0.00	1.03	10.91	8	79	17	98	0.00	0.0	0.975	0.003	0	0	0	20
PD.1453	PL.6822	B	70L	7.44Y	124.0	0.00	1.03	10.91	16	79	17	98	0.00	0.0	0.975	0.003	0	0	0	20
PL.6823	PD.1453	B	6 A (CWC)	7.44Y	123.9	0.04	1.07	10.91	8	79	17	98	0.02	0.0	1.065	0.091	9	2	4	20
PL.5340	PL.6823	B	#2 ACSR	7.43Y	123.9	0.01	1.08	7.46	4	54	11	98	0.00	0.0	1.106	0.041	0	0	0	13
PL.5322	PL.5340	B	6 A (CWC)	7.43Y	123.9	0.02	1.10	6.42	5	47	10	98	0.01	0.0	1.172	0.067	8	2	3	10
PL.5321	PL.5322	B	#4 ACSR	7.43Y	123.9	0.00	1.10	2.64	2	19	4	98	0.00	0.0	1.230	0.058	19	4	4	4
PL.5320	PL.5322	B	6 A (CWC)	7.43Y	123.9	0.01	1.11	2.71	2	20	4	98	0.00	0.0	1.233	0.061	10	2	2	3
PL.5319	PL.5320	B	6 A (CWC)	7.43Y	123.9	0.00	1.11	1.33	1	10	2	98	0.00	0.0	1.253	0.020	0	0	0	1
PL.5318	PL.5319	B	#4 ACSR	7.43Y	123.9	0.00	1.11	1.33	1	10	2	98	0.00	0.0	1.275	0.021	0	0	0	1
PL.5317	PL.5318	B	#2 ACSR	7.43Y	123.9	0.00	1.11	1.33	1	10	2	98	0.00	0.0	1.317	0.043	10	2	1	1
PL.5733	PL.5340	B	#2 ACSR	7.43Y	123.9	0.00	1.08	1.04	1	8	2	97	0.00	0.0	1.153	0.047	2	0	2	3
PL.5341	PL.5733	B	#2 ACSR	7.43Y	123.9	0.00	1.09	0.74	0	5	1	98	0.00	0.0	1.170	0.017	0	0	0	1
PL.5342	PL.5341	B	#2 ACSR	7.43Y	123.9	0.00	1.09	0.74	0	5	1	98	0.00	0.0	1.209	0.039	5	1	1	1
PL.5339	PL.6823	B	6 A (CWC)	7.44Y	123.9	0.00	1.08	2.27	2	17	3	98	0.00	0.0	1.159	0.094	17	3	3	3
PL.5324	PL.6018	A	#4 ACSR	7.45Y	124.1	0.00	0.85	3.30	3	24	5	98	0.00	0.0	0.777	0.006	0	0	0	4
PD.1394	PL.5324	A	20T	7.45Y	124.1	0.00	0.85	3.30	0	24	5	98	0.00	0.0	0.777	0.006	0	0	0	4
PL.5728	PD.1394	A	#4 ACSR	7.45Y	124.1	0.00	0.86	3.30	3	24	5	98	0.00	0.0	0.841	0.063	24	5	4	4
PL.6015	PD.1394	A	#2 ACSR	7.45Y	124.1	0.00	0.85	0.00	0	0	0	100	0.00	0.0	0.781	0.003	0	0	0	0
PL.5323	PL.6015	A	#2 ACSR	7.45Y	124.1	0.00	0.85	0.00	0	0	0	100	0.00	0.0	0.848	0.068	0	0	0	0
PL.6279	PL.7177	ABC	#1/0 ACSR	7.46Y	124.3	0.00	0.71	0.34	0	7	2	96	0.00	0.0	0.650	0.033	2	0	1	4
PL.6280	PL.6279	ABC	#1/0 ACSR	7.46Y	124.3	0.00	0.71	0.25	0	6	1	99	0.00	0.0	0.827	0.177	6	1	3	3
PL.5315	PL.6280	ABC	#1/0 ACSR	7.46Y	124.3	0.00	0.71	0.00	0	0	0	100	0.00	0.0	0.870	0.043	0	0	0	0
CP.11	PL.7176	ABC	Cap (300)	7.46Y	124.3	0.00	0.66	0.00	0	0	0	100	0.00	0.0	0.571	0.043	0	0	0	0
PL.7187	PL.6283	ABC	#1/0 ACSR	7.47Y	124.5	0.00	0.52	22.94	10	465	220	90	0.00	0.0	0.428	0.002	0	0	0	7
PD.1539	PL.7187	ABC	65T	7.47Y	124.5	0.00	0.52	22.94	0	465	220	90	0.00	0.0	0.428	0.002	0	0	0	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.7188	PD.1539	ABC	#1/0 ACSR	7.47Y	124.4	0.04	0.56	22.94	10	465	220	90	0.12	0.0	0.515	0.088	2	0	1	7
PL.6023	PL.7188	ABC	#1/0 ACSR	7.47Y	124.4	0.02	0.58	22.42	10	453	218	90	0.07	0.0	0.567	0.052	0	0	0	4
PL.5311	PL.6023	ABC	#1/0 ACSR	7.46Y	124.4	0.01	0.59	22.08	10	445	216	90	0.02	0.0	0.618	0.050	432	209	1	2
PL.5713	PL.5311	ABC	#1/0 ACSR	7.46Y	124.4	0.00	0.59	0.64	0	13	6	91	0.00	0.0	0.619	0.001	0	0	0	1
PL.7172	PL.5713	ABC	1/0 AL URD	7.46Y	124.4	0.00	0.59	0.64	0	13	6	91	0.00	0.0	0.622	0.003	0	0	0	1
PD.1533	PL.7172	ABC	65T	7.46Y	124.4	0.00	0.59	0.64	0	13	6	91	0.00	0.0	0.622	0.003	0	0	0	1
PL.7173	PD.1533	ABC	1/0 AL URD	7.46Y	124.4	0.00	0.59	0.64	0	13	6	91	0.00	0.0	0.704	0.081	13	6	1	1
PL.5727	PL.6023	ABC	#1/0 ACSR	7.47Y	124.4	0.00	0.58	0.35	0	8	2	97	0.00	0.0	0.570	0.003	0	0	0	2
PL.7174	PL.5727	ABC	1/0 AL URD	7.47Y	124.4	0.00	0.58	0.35	0	8	2	97	0.00	0.0	0.573	0.003	0	0	0	2
PD.1534	PL.7174	ABC	65T	7.47Y	124.4	0.00	0.58	0.35	0	8	2	97	0.00	0.0	0.573	0.003	0	0	0	2
PL.7175	PD.1534	ABC	1/0 AL URD	7.47Y	124.4	0.00	0.58	0.35	0	8	2	97	0.00	0.0	0.602	0.029	0	0	0	2
PL.5406	PL.7175	A	1/0 AL URD	7.47Y	124.4	0.00	0.58	0.80	0	6	1	99	0.00	0.0	0.689	0.087	6	1	1	1
PL.5407	PL.7175	ABC	1/0 AL URD	7.47Y	124.4	0.00	0.58	0.09	0	2	1	89	0.00	0.0	0.723	0.121	2	1	1	1
PL.6627	PL.7188	A	#2 ACSR	7.47Y	124.4	0.00	0.56	1.30	1	10	2	98	0.00	0.0	0.520	0.005	0	0	0	2
PD.1344	PL.6627	A	65T	7.47Y	124.4	0.00	0.56	1.30	0	10	2	98	0.00	0.0	0.520	0.005	0	0	0	2
PL.6628	PD.1344	A	#2 ACSR	7.47Y	124.4	0.00	0.56	1.30	1	10	2	98	0.00	0.0	0.580	0.060	2	0	1	2
PL.5314	PL.6628	A	#2 ACSR	7.47Y	124.4	0.00	0.56	1.00	1	7	2	96	0.00	0.0	0.631	0.051	7	2	1	1
PL.7169	PL.6278	ABC	336 MCM AC	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	0.357	0.000	0	0	0	0
PL.7122	Greenbriar	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	101.47	20	2177	687	95	0.08	0.0	0.009	0.009	0	0	0	374
PL.7528	PL.7122	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	101.47	20	2177	686	95	0.02	0.0	0.012	0.002	0	0	0	374

----- Feeder No. 3 (Manchester F3) Beginning with Device PD.1908 -----

PD.1908	PL.7528	ABC	480VWE	7.50Y	125.0	0.00	0.01	101.47	0	2177	686	95	0.00	0.0	0.012	0.002	0	0	0	374
PL.7529	PD.1908	ABC	336 MCM AC	7.50Y	125.0	0.01	0.02	101.47	20	2177	686	95	0.08	0.0	0.021	0.009	0	0	0	374
PL.7091	PL.7529	A	#4 ACSR	7.50Y	125.0	0.00	0.02	4.20	3	31	7	98	0.00	0.0	0.025	0.005	0	0	0	11
PD.1466	PL.7091	A	65T	7.50Y	125.0	0.00	0.02	4.20	0	31	7	98	0.00	0.0	0.025	0.005	0	0	0	11
PL.7092	PD.1466	A	#4 ACSR	7.50Y	125.0	0.01	0.03	4.20	3	31	7	98	0.00	0.0	0.102	0.077	0	0	0	11
PL.6847	PL.7092	A	#4 ACSR	7.50Y	125.0	0.00	0.04	2.33	2	17	4	97	0.00	0.0	0.184	0.081	17	4	3	3
PL.6972	PL.7092	A	#4 ACSR	7.50Y	125.0	0.00	0.04	1.87	1	14	3	98	0.00	0.0	0.148	0.046	0	0	0	8
PL.7002	PL.6972	A	6 A (CWC)	7.50Y	125.0	0.00	0.04	1.87	1	14	3	98	0.00	0.0	0.174	0.025	0	0	2	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.7003	PL.7002	A	6 A (CWC)	7.50Y	125.0	0.00	0.04	1.87	1	14	3	98	0.00	0.0	0.235	0.061	13	3	2	6
PL.6970	PL.7003	A	6 A (CWC)	7.50Y	125.0	0.00	0.04	0.07	0	0	0	100	0.00	0.0	0.275	0.041	0	0	4	4
PL.6848	PL.7529	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	0.36	0	8	2	97	0.00	0.0	0.037	0.016	3	1	4	6
PL.6849	PL.6848	ABC	#1/0 ACSR	7.50Y	125.0	0.00	0.02	0.24	0	5	1	98	0.00	0.0	0.079	0.041	0	0	0	2
PL.5562	PL.6849	ABC	#1/0 ACSR	7.50Y	125.0	0.00	0.02	0.24	0	5	1	98	0.00	0.0	0.142	0.063	0	0	1	2
PL.5563	PL.5562	ABC	#1/0 ACSR	7.50Y	125.0	0.00	0.02	0.24	0	5	1	98	0.00	0.0	0.166	0.024	5	1	1	1
PL.5564	PL.5563	ABC	#1/0 ACSR	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.170	0.003	0	0	0	0
PL.6971	PL.7529	ABC	336 MCM AC	7.50Y	124.9	0.05	0.07	99.72	19	2139	678	95	0.58	0.0	0.091	0.070	0	0	0	357
PL.7186	PL.6971	ABC	336 MCM AC	7.48Y	124.7	0.21	0.28	99.72	19	2138	677	95	2.24	0.1	0.358	0.267	0	0	0	357
PL.6850	PL.7186	ABC	336 MCM AC	7.48Y	124.7	0.02	0.29	99.72	19	2136	671	95	0.20	0.0	0.381	0.023	0	0	0	357
PL.7004	PL.6850	ABC	336 MCM AC	7.48Y	124.7	0.03	0.32	99.72	19	2136	671	95	0.30	0.0	0.417	0.036	1	0	1	357
PL.7005	PL.7004	ABC	336 MCM AC	7.48Y	124.7	0.01	0.33	99.66	19	2134	670	95	0.10	0.0	0.429	0.012	0	0	0	356
PL.5952	PL.7005	ABC	1/0 AL URD	7.48Y	124.7	0.00	0.33	8.86	5	181	83	91	0.00	0.0	0.434	0.005	0	0	0	3
PD.1496	PL.5952	ABC	65T	7.48Y	124.7	0.00	0.33	8.86	0	181	83	91	0.00	0.0	0.434	0.005	0	0	0	3
PL.5953	PD.1496	ABC	1/0 AL URD	7.48Y	124.7	0.01	0.35	8.86	5	181	83	91	0.02	0.0	0.506	0.073	0	0	0	3
PL.6851	PL.5953	ABC	1/0 AL URD	7.48Y	124.7	0.00	0.35	0.74	0	15	7	91	0.00	0.0	0.548	0.041	15	7	1	1
PL.6852	PL.5953	ABC	1/0 AL URD	7.48Y	124.7	0.00	0.35	8.12	5	166	76	91	0.00	0.0	0.531	0.024	150	72	1	2
PL.6869	PL.6852	A	1/0 AL URD	7.48Y	124.7	0.00	0.35	2.18	1	16	3	98	0.00	0.0	0.574	0.044	16	3	1	1
PL.6974	PL.7005	ABC	336 MCM AC	7.48Y	124.6	0.06	0.39	90.87	18	1953	586	96	0.62	0.0	0.519	0.090	2	0	1	353
PL.6975	PL.6974	ABC	336 MCM AC	7.47Y	124.6	0.05	0.44	90.42	17	1942	583	96	0.50	0.0	0.591	0.072	0	0	0	351
PL.7103	PL.6975	C	#4 ACSR	7.47Y	124.6	0.00	0.44	4.15	3	30	6	98	0.00	0.0	0.596	0.005	0	0	0	10
PD.1472	PL.7103	C	65T	7.47Y	124.6	0.00	0.44	4.15	0	30	6	98	0.00	0.0	0.596	0.005	0	0	0	10
PL.7104	PD.1472	C	#4 ACSR	7.47Y	124.6	0.00	0.45	4.15	3	30	6	98	0.00	0.0	0.609	0.013	12	3	5	10
PL.7001	PL.7104	C	#4 ACSR	7.47Y	124.6	0.00	0.45	2.45	2	18	4	98	0.00	0.0	0.656	0.047	18	4	5	5
PL.6976	PL.6975	ABC	336 MCM AC	7.47Y	124.5	0.03	0.48	89.04	17	1912	575	96	0.30	0.0	0.637	0.046	6	1	4	341
PL.6853	PL.6976	ABC	336 MCM AC	7.47Y	124.5	0.03	0.50	88.75	17	1905	573	96	0.25	0.0	0.675	0.038	3	1	1	337
PL.5565	PL.6853	ABC	336 MCM AC	7.47Y	124.5	0.01	0.51	87.92	17	1886	569	96	0.12	0.0	0.693	0.018	4	1	3	331
PL.6993	PL.5565	ABC	336 MCM AC	7.47Y	124.4	0.04	0.55	87.73	17	1882	568	96	0.37	0.0	0.750	0.057	0	0	0	328
PL.6997	PL.6993	ABC	336 MCM AC	7.46Y	124.4	0.05	0.60	86.97	17	1865	563	96	0.47	0.0	0.825	0.075	13	3	1	320
PL.6998	PL.6997	ABC	336 MCM AC	7.46Y	124.3	0.05	0.65	86.40	17	1852	560	96	0.49	0.0	0.902	0.078	15	3	2	319
PL.6999	PL.6998	ABC	336 MCM AC	7.46Y	124.3	0.09	0.74	85.71	17	1836	555	96	0.83	0.0	1.037	0.135	7	1	6	317

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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.7243	PL.6999	C	#4 ACSR	7.46Y	124.3	0.00	0.74	1.25	1	9	2	98	0.00	0.0	1.039	0.002	0	0	0	2
PD.1564	PL.7243	C	65T	7.46Y	124.3	0.00	0.74	1.25	0	9	2	98	0.00	0.0	1.039	0.002	0	0	0	2
PL.7244	PD.1564	C	#4 ACSR	7.46Y	124.3	0.00	0.74	1.25	1	9	2	98	0.00	0.0	1.042	0.002	0	0	0	2
PL.6981	PL.7244	C	#1/0 ACSR	7.46Y	124.3	0.00	0.74	0.30	0	2	0	100	0.00	0.0	1.047	0.005	0	0	0	1
PL.6856	PL.6981	C	#1/0 ACSR	7.46Y	124.3	0.00	0.74	0.30	0	2	0	100	0.00	0.0	1.089	0.043	2	0	1	1
PL.6980	PL.7244	C	#4 ACSR	7.46Y	124.3	0.00	0.74	0.95	1	7	1	99	0.00	0.0	1.089	0.047	7	1	1	1
PL.5928	PL.6999	A	6 A (CWC)	7.46Y	124.3	0.00	0.74	1.08	1	8	2	97	0.00	0.0	1.042	0.005	0	0	0	2
PD.1483	PL.5928	A	65T	7.46Y	124.3	0.00	0.74	1.08	0	8	2	97	0.00	0.0	1.042	0.005	0	0	0	2
PL.5929	PD.1483	A	6 A (CWC)	7.46Y	124.3	0.00	0.74	1.08	1	8	2	97	0.00	0.0	1.099	0.057	3	1	1	2
PL.6994	PL.5929	A	6 A (CWC)	7.46Y	124.3	0.00	0.74	0.64	0	5	1	98	0.00	0.0	1.128	0.030	5	1	1	1
PL.7079	PL.6999	ABC	336 MCM AC	7.45Y	124.2	0.03	0.77	84.63	16	1812	548	96	0.32	0.0	1.089	0.052	0	0	0	307
PL.7080	PL.7079	ABC	336 MCM AC	7.45Y	124.2	0.02	0.80	84.63	16	1812	548	96	0.22	0.0	1.125	0.036	0	0	0	307
PL.7093	PL.7080	C	#4 ACSR	7.45Y	124.2	0.00	0.80	0.02	0	0	0	100	0.00	0.0	1.140	0.014	0	0	0	1
PD.1467	PL.7093	C	65T	7.45Y	124.2	0.00	0.80	0.02	0	0	0	100	0.00	0.0	1.140	0.014	0	0	0	1
PL.7094	PD.1467	C	#4 ACSR	7.45Y	124.2	0.00	0.80	0.02	0	0	0	100	0.00	0.0	1.205	0.065	0	0	1	1
PL.6857	PL.7080	ABC	336 MCM AC	7.45Y	124.2	0.05	0.84	84.63	16	1811	547	96	0.44	0.0	1.200	0.075	33	7	3	306
PL.7245	PL.6857	A	#1/0 ACSR	7.45Y	124.2	0.00	0.84	1.58	1	12	2	99	0.00	0.0	1.201	0.001	0	0	0	3
PD.1565	PL.7245	A	65T	7.45Y	124.2	0.00	0.84	1.58	0	12	2	99	0.00	0.0	1.201	0.001	0	0	0	3
PL.7246	PD.1565	A	#1/0 ACSR	7.45Y	124.2	0.00	0.84	1.58	1	12	2	99	0.00	0.0	1.205	0.003	0	0	0	3
PL.6986	PL.7246	A	#1/0 ACSR	7.45Y	124.2	0.00	0.84	0.50	0	4	1	97	0.00	0.0	1.227	0.022	0	0	0	1
PL.6858	PL.6986	A	#1/0 ACSR	7.45Y	124.2	0.00	0.84	0.50	0	4	1	97	0.00	0.0	1.242	0.015	4	1	1	1
PL.6983	PL.7246	A	6 A (CWC)	7.45Y	124.2	0.00	0.85	1.08	1	8	2	97	0.00	0.0	1.219	0.014	0	0	0	2
PL.6872	PL.6983	A	6 A (CWC)	7.45Y	124.2	0.00	0.85	1.08	1	8	2	97	0.00	0.0	1.269	0.050	8	2	2	2
PL.6918	PL.6857	ABC	336 MCM AC	7.45Y	124.1	0.04	0.88	82.60	16	1766	537	96	0.36	0.0	1.262	0.062	0	0	0	300
PL.6917	PL.6918	ABC	336 MCM AC	7.44Y	124.1	0.03	0.92	82.60	16	1766	536	96	0.30	0.0	1.315	0.053	0	0	0	300
PL.7097	PL.6917	B	#4 ACSR	7.44Y	124.1	0.00	0.92	0.51	0	4	1	97	0.00	0.0	1.320	0.005	0	0	0	1
PD.1469	PL.7097	B	65T	7.44Y	124.1	0.00	0.92	0.51	0	4	1	97	0.00	0.0	1.320	0.005	0	0	0	1
PL.7098	PD.1469	B	#4 ACSR	7.44Y	124.1	0.00	0.92	0.51	0	4	1	97	0.00	0.0	1.336	0.016	4	1	1	1
PL.6919	PL.6917	ABC	336 MCM AC	7.44Y	124.1	0.02	0.93	82.43	16	1762	534	96	0.15	0.0	1.341	0.026	1	0	4	299
PL.5930	PL.6919	C	#4 ACSR	7.44Y	124.1	0.00	0.93	1.06	1	8	2	97	0.00	0.0	1.346	0.005	0	0	0	3
PD.1485	PL.5930	C	65T	7.44Y	124.1	0.00	0.93	1.06	0	8	2	97	0.00	0.0	1.346	0.005	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.5931	PD.1485	C	#4 ACSR	7.44Y	124.1	0.00	0.94	1.06	1	8	2	97	0.00	0.0	1.380	0.034	2	0	1	3
PL.7000	PL.5931	C	#4 ACSR	7.44Y	124.1	0.00	0.94	0.83	1	6	1	99	0.00	0.0	1.394	0.014	0	0	0	2
PL.6987	PL.7000	C	#4 ACSR	7.44Y	124.1	0.00	0.94	0.32	0	2	0	100	0.00	0.0	1.475	0.081	2	0	1	1
PL.6860	PL.7000	C	#4 ACSR	7.44Y	124.1	0.00	0.94	0.50	0	4	1	97	0.00	0.0	1.436	0.043	4	1	1	1
PL.5557	PL.6919	ABC	336 MCM AC	7.44Y	124.0	0.03	0.96	80.94	16	1729	527	96	0.23	0.0	1.383	0.042	2	0	1	288
PL.5558	PL.5557	ABC	336 MCM AC	7.44Y	124.0	0.04	1.00	80.87	16	1727	526	96	0.32	0.0	1.441	0.058	4	1	2	287
PL.5559	PL.5558	ABC	336 MCM AC	7.44Y	124.0	0.03	1.03	80.66	16	1722	524	96	0.27	0.0	1.489	0.048	1	0	1	285
PL.6859	PL.5559	ABC	336 MCM AC	7.44Y	124.0	0.02	1.04	80.64	16	1722	524	96	0.17	0.0	1.521	0.032	27	6	4	284
PL.7089	PL.6859	C	#1/0 ACSR	7.44Y	124.0	0.00	1.04	0.98	0	7	2	96	0.00	0.0	1.526	0.005	0	0	0	4
PD.1465	PL.7089	C	65T	7.44Y	124.0	0.00	1.04	0.98	0	7	2	96	0.00	0.0	1.526	0.005	0	0	0	4
PL.7090	PD.1465	C	#1/0 ACSR	7.44Y	124.0	0.00	1.05	0.98	0	7	2	96	0.00	0.0	1.560	0.034	2	0	1	4
PL.6861	PL.7090	C	#1/0 ACSR	7.44Y	124.0	0.00	1.05	0.76	0	6	1	99	0.00	0.0	1.598	0.038	6	1	3	3
PL.5560	PL.6859	ABC	336 MCM AC	7.43Y	123.9	0.07	1.12	79.07	15	1687	516	96	0.64	0.0	1.643	0.122	5	1	2	276
PL.5561	PL.5560	ABC	336 MCM AC	7.43Y	123.8	0.09	1.21	78.86	15	1682	513	96	0.77	0.0	1.790	0.148	5	1	2	274
PL.5554	PL.5561	ABC	336 MCM AC	7.43Y	123.8	0.01	1.22	78.61	15	1676	511	96	0.11	0.0	1.811	0.020	0	0	0	272
PL.6862	PL.5554	ABC	336 MCM AC	7.43Y	123.8	0.00	1.22	17.66	3	354	171	90	0.00	0.0	1.825	0.014	0	0	0	1
PL.64958	PL.6862	ABC	336 MCM AC	7.43Y	123.8	0.00	1.22	17.66	3	354	171	90	0.00	0.0	1.825	0.000	0	0	0	1
PD.9572-A	PL.64958	ABC	Closed	7.43Y	123.8	0.00	1.22	17.66	0	354	171	90	0.00	0.0	1.825	0.000	0	0	0	1
PD.9572-B	PD.9572-A	ABC	Closed	7.43Y	123.8	0.00	1.22	17.66	0	354	171	90	0.00	0.0	1.825	0.000	0	0	0	1
PL.6873	PD.9572-B	ABC	336 MCM AC	7.43Y	123.8	0.00	1.22	17.66	3	354	171	90	0.00	0.0	1.827	0.002	0	0	0	1
PD.1504	PL.6873	ABC	280L	7.43Y	123.8	0.00	1.22	17.66	0	354	171	90	0.00	0.0	1.827	0.002	0	0	0	1
PL.6961	PD.1504	ABC	336 MCM AC	7.43Y	123.8	0.00	1.22	17.66	3	354	171	90	0.00	0.0	1.827	0.001	0	0	0	1
PL.5954	PL.6961	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.22	17.66	10	354	171	90	0.00	0.0	1.829	0.001	0	0	0	1
PD.1497	PL.5954	ABC	65T	7.43Y	123.8	0.00	1.22	17.66	0	354	171	90	0.00	0.0	1.829	0.001	0	0	0	1
PL.5955	PD.1497	ABC	1/0 AL URD	7.43Y	123.8	0.01	1.23	17.66	10	354	171	90	0.03	0.0	1.852	0.024	0	0	0	1
PL.64960	PL.5955	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.23	17.66	10	354	171	90	0.00	0.0	1.853	0.001	0	0	0	1
PD.1499-A	PL.64960	ABC	Closed	7.43Y	123.8	0.00	1.23	17.66	0	354	171	90	0.00	0.0	1.853	0.001	0	0	0	1
PD.1499-B	PD.1499-A	ABC	Closed	7.43Y	123.8	0.00	1.23	17.66	0	354	171	90	0.00	0.0	1.853	0.001	0	0	0	1
PL.6875	PD.1499-B	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.23	17.66	10	354	171	90	0.00	0.0	1.856	0.003	0	0	0	1
PL.64962	PL.6875	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.23	17.66	10	354	171	90	0.00	0.0	1.857	0.001	354	171	1	1
PL.64964	PL.64962	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.862	0.006	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.64967	PL.64964	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.878	0.016	0	0	0	0
PL.64963	PL.64962	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.864	0.007	0	0	0	0
PL.64966	PL.64963	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.879	0.016	0	0	0	0
PL.64965	PL.64963	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.879	0.015	0	0	0	0
PL.64968	PL.64965	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.880	0.002	0	0	0	0
PD.9991-A	PL.64968	ABC	Open	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.880	0.002	0	0	0	0
PL.5269	PL.5955	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.874	0.021	0	0	0	0
PD.897	PL.5269	ABC	65T	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.874	0.021	0	0	0	0
PL.5268	PD.897	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.875	0.001	0	0	0	0
PL.5267	PL.5268	ABC	#2 ACSR	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.876	0.001	0	0	0	0
PD.896	PL.5267	ABC	280L	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.876	0.001	0	0	0	0
PL.5266	PD.896	ABC	#2 ACSR	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.878	0.002	0	0	0	0
PD.9573-B	PL.5266	ABC	Open	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.878	0.002	0	0	0	0
PL.5555	PL.5554	ABC	336 MCM AC	7.43Y	123.8	0.00	1.22	61.23	12	1321	339	97	0.03	0.0	1.820	0.009	0	0	0	271
PL.7066	PL.5555	ABC	336 MCM AC	7.42Y	123.7	0.03	1.25	61.23	12	1321	339	97	0.20	0.0	1.885	0.065	14	3	3	271
PL.7067	PL.7066	ABC	336 MCM AC	7.42Y	123.7	0.01	1.27	60.57	12	1307	335	97	0.10	0.0	1.919	0.034	57	12	9	268
PL.7068	PL.7067	ABC	336 MCM AC	7.42Y	123.7	0.02	1.28	57.94	11	1249	323	97	0.10	0.0	1.955	0.037	3	1	2	259
PL.7069	PL.7068	ABC	336 MCM AC	7.42Y	123.7	0.02	1.31	57.82	11	1247	322	97	0.16	0.0	2.014	0.059	10	2	2	257
PL.7070	PL.7069	ABC	336 MCM AC	7.42Y	123.7	0.01	1.31	57.35	11	1236	320	97	0.04	0.0	2.028	0.014	3	1	6	255
PL.7071	PL.7070	ABC	336 MCM AC	7.42Y	123.7	0.00	1.32	57.21	11	1233	319	97	0.02	0.0	2.037	0.008	0	0	0	249
PL.7072	PL.7071	ABC	336 MCM AC	7.42Y	123.7	0.02	1.34	56.94	11	1227	318	97	0.15	0.0	2.090	0.054	18	4	12	245
PL.7073	PL.7072	ABC	336 MCM AC	7.42Y	123.6	0.01	1.35	56.09	11	1209	313	97	0.09	0.0	2.125	0.035	35	7	11	233
PL.5944	PL.7073	C	#1/0 ACSR	7.42Y	123.6	0.00	1.35	6.36	3	46	10	98	0.00	0.0	2.128	0.003	0	0	0	7
PD.1492	PL.5944	C	65T	7.42Y	123.6	0.00	1.35	6.36	0	46	10	98	0.00	0.0	2.128	0.003	0	0	0	7
PL.5945	PD.1492	C	#1/0 ACSR	7.42Y	123.6	0.00	1.35	6.36	3	46	10	98	0.00	0.0	2.141	0.013	0	0	0	7
PL.6988	PL.5945	C	6 A (CWC)	7.42Y	123.6	0.03	1.39	6.36	5	46	10	98	0.01	0.0	2.253	0.112	0	0	0	7
PL.7020	PL.6988	C	6 A (CWC)	7.42Y	123.6	0.01	1.39	2.94	2	21	5	97	0.00	0.0	2.330	0.077	10	2	2	3
PL.7021	PL.7020	C	6 A (CWC)	7.42Y	123.6	0.00	1.40	1.61	1	12	2	99	0.00	0.0	2.356	0.026	12	2	1	1
PL.6989	PL.6988	C	6 A (CWC)	7.42Y	123.6	0.01	1.39	3.42	2	25	5	98	0.00	0.0	2.314	0.061	10	2	2	4
PL.7018	PL.6989	C	#2 ACSR	7.42Y	123.6	0.00	1.40	2.03	1	15	3	98	0.00	0.0	2.371	0.057	7	2	1	2
PL.7019	PL.7018	C	#2 ACSR	7.42Y	123.6	0.00	1.40	1.02	1	7	2	96	0.00	0.0	2.423	0.052	7	2	1	1

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6920	PL.7073	ABC	336 MCM AC	7.42Y	123.6	0.02	1.37	52.35	10	1127	296	97	0.11	0.0	2.173	0.048	6	1	2	215
PL.6921	PL.6920	ABC	336 MCM AC	7.42Y	123.6	0.02	1.39	50.79	10	1093	288	97	0.10	0.0	2.219	0.046	37	8	9	206
PL.7118	PL.6921	ABC	336 MCM AC	7.41Y	123.6	0.06	1.44	48.45	9	1042	276	97	0.31	0.0	2.376	0.157	0	0	0	195
PL.7143	PL.7118	ABC	336 MCM AC	7.41Y	123.6	0.00	1.44	48.45	9	1042	275	97	0.01	0.0	2.379	0.003	0	0	0	195
PD.1515	PL.7143	ABC	70L	7.41Y	123.6	0.00	1.44	48.45	69	1042	275	97	0.00	0.0	2.379	0.003	0	0	0	195
PL.7144	PD.1515	ABC	336 MCM AC	7.41Y	123.5	0.02	1.46	48.45	9	1042	275	97	0.09	0.0	2.426	0.047	26	6	5	195
PL.6922	PL.7144	ABC	336 MCM AC	7.41Y	123.5	0.02	1.48	47.24	9	1015	270	97	0.11	0.0	2.483	0.057	13	3	2	190
PL.6923	PL.6922	ABC	336 MCM AC	7.41Y	123.5	0.02	1.50	46.17	9	992	264	97	0.11	0.0	2.543	0.060	12	3	3	187
PL.7074	PL.6923	ABC	336 MCM AC	7.41Y	123.5	0.02	1.52	43.64	8	937	253	97	0.10	0.0	2.606	0.063	0	0	1	174
PL.7081	PL.7074	ABC	336 MCM AC	7.41Y	123.5	0.01	1.53	43.63	8	936	252	97	0.05	0.0	2.636	0.030	3	2	1	173
PL.7082	PL.7081	ABC	336 MCM AC	7.41Y	123.5	0.01	1.54	43.46	8	933	250	97	0.05	0.0	2.668	0.032	4	1	5	172
PL.7076	PL.7082	ABC	336 MCM AC	7.41Y	123.4	0.01	1.55	43.26	8	929	249	97	0.07	0.0	2.709	0.041	2	0	1	167
PL.7075	PL.7076	ABC	336 MCM AC	7.41Y	123.4	0.02	1.57	43.18	8	927	249	97	0.09	0.0	2.766	0.057	0	0	0	166
PL.5932	PL.7075	A	#1/0 ACSR	7.41Y	123.4	0.00	1.57	0.96	0	7	1	99	0.00	0.0	2.773	0.007	0	0	0	2
PD.1486	PL.5932	A	30T	7.41Y	123.4	0.00	1.57	0.96	0	7	1	99	0.00	0.0	2.773	0.007	0	0	0	2
PL.5933	PD.1486	A	#1/0 ACSR	7.41Y	123.4	0.00	1.57	0.96	0	7	1	99	0.00	0.0	2.816	0.043	0	0	0	2
PL.6991	PL.5933	A	#4 ACSR	7.41Y	123.4	0.00	1.57	0.96	1	7	1	99	0.00	0.0	2.866	0.050	0	0	0	2
PL.6992	PL.6991	A	#4 ACSR	7.41Y	123.4	0.00	1.58	0.16	0	1	0	100	0.00	0.0	2.882	0.016	1	0	1	1
PL.6868	PL.6991	A	#4 ACSR	7.41Y	123.4	0.00	1.58	0.80	1	6	1	99	0.00	0.0	2.932	0.066	6	1	1	1
PL.7077	PL.7075	ABC	336 MCM AC	7.40Y	123.4	0.02	1.59	42.86	8	920	247	97	0.09	0.0	2.822	0.055	7	1	1	164
PL.7078	PL.7077	ABC	336 MCM AC	7.40Y	123.4	0.03	1.62	42.54	8	913	246	97	0.13	0.0	2.908	0.087	0	0	0	163
PL.6941	PL.7078	ABC	336 MCM AC	7.40Y	123.4	0.02	1.64	42.54	8	912	245	97	0.12	0.0	2.984	0.075	0	0	0	163
PL.6942	PL.6941	ABC	336 MCM AC	7.40Y	123.3	0.01	1.65	42.54	8	912	245	97	0.06	0.0	3.024	0.040	21	4	4	163
PL.7116	PL.6942	B	#2 ACSR	7.40Y	123.3	0.00	1.66	26.12	15	189	40	98	0.01	0.0	3.028	0.005	0	0	0	41
PD.1503	PL.7116	B	35H	7.40Y	123.3	0.00	1.66	26.12	75	189	40	98	0.00	0.0	3.028	0.005	0	0	0	41
PL.7117	PD.1503	B	#2 ACSR	7.40Y	123.3	0.04	1.70	26.12	15	189	40	98	0.06	0.0	3.089	0.060	37	8	10	41
PL.7013	PL.7117	B	6 A (CWC)	7.40Y	123.3	0.04	1.73	20.95	15	152	32	98	0.04	0.0	3.127	0.038	2	1	2	31
PL.7014	PL.7013	B	6 A (CWC)	7.39Y	123.2	0.05	1.78	20.61	15	149	32	98	0.05	0.0	3.182	0.055	21	5	3	29
PL.7008	PL.7014	B	#4 ACSR	7.39Y	123.2	0.00	1.78	3.35	3	24	5	98	0.00	0.0	3.196	0.014	9	2	1	3
PL.7009	PL.7008	B	#4 ACSR	7.39Y	123.2	0.00	1.78	2.16	2	16	3	98	0.00	0.0	3.217	0.021	16	3	2	2
PL.7010	PL.7014	B	6 A (CWC)	7.39Y	123.2	0.05	1.83	14.30	10	103	22	98	0.04	0.0	3.263	0.081	6	1	1	23

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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.7011	PL.7010	B	6 A (CWC)	7.39Y	123.1	0.03	1.86	13.50	10	98	21	98	0.02	0.0	3.311	0.049	12	3	2	22
PL.7012	PL.7011	B	6 A (CWC)	7.39Y	123.1	0.04	1.90	11.86	8	86	18	98	0.02	0.0	3.383	0.072	14	3	4	20
PL.7015	PL.7012	B	6 A (CWC)	7.38Y	123.1	0.03	1.92	9.86	7	71	15	98	0.01	0.0	3.445	0.062	8	2	1	16
PL.7016	PL.7015	B	6 A (CWC)	7.38Y	123.1	0.02	1.94	8.82	6	64	13	98	0.01	0.0	3.497	0.051	14	3	4	15
PL.7017	PL.7016	B	6 A (CWC)	7.38Y	123.0	0.02	1.96	6.82	5	49	10	98	0.01	0.0	3.549	0.052	0	0	0	11
PL.6878	PL.7017	B	#2 ACSR	7.38Y	123.0	0.00	1.96	1.07	1	8	2	97	0.00	0.0	3.574	0.025	8	2	2	2
PL.5556	PL.7017	B	6 A (CWC)	7.38Y	123.0	0.02	1.97	5.76	4	42	9	98	0.00	0.0	3.619	0.070	10	2	1	9
PL.6877	PL.5556	B	6 A (CWC)	7.38Y	123.0	0.00	1.97	1.36	1	10	2	98	0.00	0.0	3.686	0.067	4	1	3	6
PL.6876	PL.6877	B	#4 ACSR	7.38Y	123.0	0.00	1.97	0.02	0	0	0	100	0.00	0.0	3.789	0.103	0	0	1	1
PL.6934	PL.6877	B	#4 ACSR	7.38Y	123.0	0.00	1.98	0.77	1	6	1	99	0.00	0.0	3.767	0.081	5	1	1	2
PL.7007	PL.6934	B	#4 ACSR	7.38Y	123.0	0.00	1.98	0.05	0	0	0	100	0.00	0.0	3.844	0.077	0	0	1	1
PL.6879	PL.5556	B	#4 ACSR	7.38Y	123.0	0.01	1.98	2.98	2	22	5	98	0.00	0.0	3.717	0.098	22	5	2	2
PL.10172	PL.7013	B	#1/0 ACSR	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	3.169	0.042	0	0	0	0
PL.10173	PL.10172	B	#1/0 ACSR	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	3.197	0.028	0	0	0	0
PL.28282	PL.10173	B	#1/0 ACSR	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	3.255	0.058	0	0	0	0
PL.6924	PL.6942	ABC	336 MCM AC	7.40Y	123.3	0.03	1.68	32.89	6	702	200	96	0.12	0.0	3.154	0.131	0	0	0	118
PL.7135	PL.6924	C	#1/0 ACSR	7.40Y	123.3	0.00	1.68	1.99	1	14	3	98	0.00	0.0	3.156	0.002	0	0	0	2
PD.1511	PL.7135	C	30T	7.40Y	123.3	0.00	1.68	1.99	0	14	3	98	0.00	0.0	3.156	0.002	0	0	0	2
PL.7136	PD.1511	C	#1/0 ACSR	7.40Y	123.3	0.00	1.69	1.99	1	14	3	98	0.00	0.0	3.193	0.037	6	1	1	2
PL.6867	PL.7136	C	#1/0 ACSR	7.40Y	123.3	0.00	1.69	1.15	0	8	2	97	0.00	0.0	3.243	0.050	8	2	1	1
PL.6925	PL.6924	ABC	336 MCM AC	7.40Y	123.3	0.03	1.71	32.23	6	688	197	96	0.10	0.0	3.272	0.118	0	0	0	116
PL.5940	PL.6925	ABC	336 MCM AC	7.40Y	123.3	0.01	1.73	32.23	6	688	197	96	0.05	0.0	3.330	0.058	0	0	0	116
PL.7133	PL.5940	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	0.48	0	4	1	97	0.00	0.0	3.333	0.003	0	0	0	1
PD.1510	PL.7133	C	30T	7.40Y	123.3	0.00	1.73	0.48	0	4	1	97	0.00	0.0	3.333	0.003	0	0	0	1
PL.7134	PD.1510	C	#1/0 ACSR	7.40Y	123.3	0.00	1.73	0.48	0	4	1	97	0.00	0.0	3.353	0.019	4	1	1	1
PL.6943	PL.5940	ABC	336 MCM AC	7.40Y	123.3	0.01	1.74	32.07	6	684	196	96	0.04	0.0	3.382	0.051	0	0	0	115
PL.7131	PL.6943	C	#1/0 ACSR	7.40Y	123.3	0.00	1.74	1.84	1	13	3	97	0.00	0.0	3.384	0.003	0	0	0	1
PD.1509	PL.7131	C	30T	7.40Y	123.3	0.00	1.74	1.84	0	13	3	97	0.00	0.0	3.384	0.003	0	0	0	1
PL.7132	PD.1509	C	#1/0 ACSR	7.40Y	123.3	0.00	1.74	1.84	1	13	3	97	0.00	0.0	3.408	0.024	13	3	1	1
PL.6926	PL.6943	ABC	336 MCM AC	7.39Y	123.2	0.02	1.76	31.45	6	671	193	96	0.07	0.0	3.463	0.081	0	0	0	114
PL.6944	PL.6926	ABC	336 MCM AC	7.39Y	123.2	0.01	1.77	31.45	6	671	193	96	0.04	0.0	3.517	0.054	10	2	1	114

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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6945	PL.6944	ABC	336 MCM AC	7.39Y	123.2	0.01	1.78	31.00	6	661	191	96	0.04	0.0	3.570	0.053	0	0	0	113
PL.7127	PL.6945	ABC	336 MCM AC	7.39Y	123.2	0.00	1.78	28.59	6	608	179	96	0.00	0.0	3.573	0.003	0	0	0	105
PD.1507-A	PL.7127	ABC	Closed	7.39Y	123.2	0.00	1.78	28.59	0	608	179	96	0.00	0.0	3.573	0.003	0	0	0	105
PD.1507-B	PD.1507-A	ABC	Closed	7.39Y	123.2	0.00	1.78	28.59	0	608	179	96	0.00	0.0	3.573	0.003	0	0	0	105
PL.7128	PD.1507-B	ABC	336 MCM AC	7.39Y	123.2	0.03	1.81	28.59	6	608	179	96	0.09	0.0	3.699	0.125	0	0	0	105
PL.7247	PL.7128	ABC	336 MCM AC	7.39Y	123.2	0.00	1.81	28.59	6	608	179	96	0.00	0.0	3.701	0.003	0	0	0	105
PD.1566-A	PL.7247	ABC	Closed	7.39Y	123.2	0.00	1.81	28.59	0	608	179	96	0.00	0.0	3.701	0.003	0	0	0	105
PD.1566-B	PD.1566-A	ABC	Closed	7.39Y	123.2	0.00	1.81	28.59	0	608	179	96	0.00	0.0	3.701	0.003	0	0	0	105
PL.7248	PD.1566-B	ABC	336 MCM AC	7.39Y	123.2	0.01	1.83	28.59	6	608	179	96	0.04	0.0	3.762	0.061	0	0	0	105
PL.6870	PL.7248	ABC	6 A (CWC)	7.38Y	123.0	0.14	1.96	28.49	20	606	179	96	0.67	0.1	3.886	0.124	0	0	0	104
PL.6927	PL.6870	ABC	6 A (CWC)	7.38Y	122.9	0.09	2.06	28.17	20	598	177	96	0.45	0.1	3.972	0.085	0	0	0	103
PL.6928	PL.6927	ABC	6 A (CWC)	7.37Y	122.8	0.18	2.24	27.86	20	591	175	96	0.83	0.1	4.133	0.162	0	0	0	100
PL.7111	PL.6928	C	#1/0 ACSR	7.37Y	122.8	0.00	2.24	1.49	1	11	2	98	0.00	0.0	4.138	0.005	0	0	0	1
PD.1476	PL.7111	C	30T	7.37Y	122.8	0.00	2.24	1.49	0	11	2	98	0.00	0.0	4.138	0.005	0	0	0	1
PL.7112	PD.1476	C	#1/0 ACSR	7.37Y	122.8	0.00	2.24	1.49	1	11	2	98	0.00	0.0	4.143	0.005	11	2	1	1
PL.6929	PL.6928	ABC	6 A (CWC)	7.36Y	122.7	0.10	2.34	27.37	20	580	173	96	0.48	0.1	4.231	0.097	8	2	1	99
PL.6884	PL.6929	C	#4 ACSR	7.36Y	122.7	0.00	2.34	1.59	1	11	2	98	0.00	0.0	4.279	0.048	11	2	2	2
PL.6930	PL.6929	ABC	6 A (CWC)	7.35Y	122.6	0.10	2.44	26.48	19	560	169	96	0.46	0.1	4.331	0.100	4	1	2	96
PL.6931	PL.6930	ABC	6 A (CWC)	7.35Y	122.5	0.07	2.51	26.31	19	556	168	96	0.31	0.1	4.400	0.069	12	2	2	94
PL.6932	PL.6931	ABC	6 A (CWC)	7.34Y	122.4	0.07	2.59	25.77	18	544	165	96	0.32	0.1	4.473	0.073	8	2	2	91
PL.5918	PL.6932	C	#2 ACSR	7.34Y	122.4	0.00	2.59	0.92	1	7	1	99	0.00	0.0	4.477	0.005	0	0	0	1
PD.1478	PL.5918	C	30T	7.34Y	122.4	0.00	2.59	0.92	0	7	1	99	0.00	0.0	4.477	0.005	0	0	0	1
PL.5919	PD.1478	C	#2 ACSR	7.34Y	122.4	0.00	2.59	0.92	1	7	1	99	0.00	0.0	4.519	0.042	7	1	1	1
PL.7031	PL.6932	ABC	6 A (CWC)	7.34Y	122.4	0.06	2.65	25.11	18	529	162	96	0.25	0.0	4.533	0.060	15	3	2	88
PL.7032	PL.7031	ABC	6 A (CWC)	7.34Y	122.3	0.05	2.70	24.44	17	514	159	96	0.20	0.0	4.586	0.053	11	2	1	86
PL.6885	PL.7032	C	6 A (CWC)	7.34Y	122.3	0.00	2.70	1.49	1	11	2	98	0.00	0.0	4.615	0.030	11	2	3	3
PL.6933	PL.7032	ABC	6 A (CWC)	7.33Y	122.2	0.06	2.75	23.00	16	483	152	95	0.21	0.0	4.648	0.062	12	3	3	81
PL.6887	PL.6933	ABC	6 A (CWC)	7.33Y	122.2	0.02	2.78	22.44	16	471	149	95	0.09	0.0	4.675	0.027	20	4	3	78
PL.5920	PL.6887	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	4.21	3	30	6	98	0.00	0.0	4.680	0.005	0	0	0	4
PD.1479	PL.5920	A	30T	7.33Y	122.2	0.00	2.78	4.21	0	30	6	98	0.00	0.0	4.680	0.005	0	0	0	4
PL.5921	PD.1479	A	6 A (CWC)	7.33Y	122.2	0.02	2.80	4.21	3	30	6	98	0.00	0.0	4.802	0.122	3	1	1	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.7034	PL.5921	A	6 A (CWC)	7.33Y	122.2	0.01	2.80	3.77	3	27	6	98	0.00	0.0	4.844	0.042	6	1	2	3
PL.7035	PL.7034	A	6 A (CWC)	7.33Y	122.2	0.01	2.81	3.00	2	21	5	97	0.00	0.0	4.929	0.085	21	5	1	1
PL.7036	PL.6887	ABC	6 A (CWC)	7.33Y	122.2	0.06	2.84	20.12	14	420	139	95	0.20	0.0	4.753	0.078	25	5	6	71
PL.7037	PL.7036	ABC	6 A (CWC)	7.33Y	122.1	0.07	2.90	18.98	14	395	133	95	0.22	0.1	4.846	0.094	12	3	2	65
PL.7033	PL.7037	ABC	6 A (CWC)	7.32Y	122.0	0.07	2.97	18.42	13	383	131	95	0.20	0.1	4.936	0.090	0	0	0	63
PL.6890	PL.7033	ABC	6 A (CWC)	7.32Y	122.0	0.00	2.97	8.86	6	190	44	97	0.01	0.0	4.950	0.013	0	0	0	51
PL.6892	PL.6890	A	#4 ACSR	7.32Y	122.0	0.00	2.98	2.67	2	19	4	98	0.00	0.0	4.971	0.022	19	4	8	8
PL.6977	PL.6890	ABC	6 A (CWC)	7.32Y	122.0	0.02	3.00	7.98	6	171	40	97	0.03	0.0	5.030	0.080	6	1	2	43
PL.7114	PL.6977	A	6 A (CWC)	7.32Y	122.0	0.00	3.00	19.93	14	143	30	98	0.00	0.0	5.033	0.003	0	0	0	39
PD.1502	PL.7114	A	35H	7.32Y	122.0	0.00	3.00	19.93	57	143	30	98	0.00	0.0	5.033	0.003	0	0	0	39
PL.7115	PD.1502	A	6 A (CWC)	7.32Y	121.9	0.06	3.06	19.93	14	143	30	98	0.07	0.0	5.102	0.070	0	0	0	39
PL.7038	PL.7115	A	6 A (CWC)	7.31Y	121.8	0.11	3.17	19.93	14	143	30	98	0.12	0.1	5.225	0.123	0	0	1	39
PL.7048	PL.7038	A	#4 ACSR	7.31Y	121.8	0.00	3.17	1.42	1	10	2	98	0.00	0.0	5.254	0.029	8	2	1	2
PL.7049	PL.7048	A	#2 ACSR	7.31Y	121.8	0.00	3.17	0.35	0	3	1	95	0.00	0.0	5.294	0.040	3	1	1	1
PL.7046	PL.7038	A	6 A (CWC)	7.31Y	121.8	0.05	3.22	18.49	13	132	28	98	0.05	0.0	5.285	0.060	0	0	1	36
PL.7047	PL.7046	A	6 A (CWC)	7.30Y	121.7	0.04	3.26	18.48	13	132	28	98	0.04	0.0	5.333	0.048	0	0	0	35
PL.7045	PL.7047	A	6 A (CWC)	7.30Y	121.6	0.09	3.35	18.48	13	132	28	98	0.09	0.1	5.440	0.107	0	0	0	35
PL.6896	PL.7045	A	#4 ACSR	7.30Y	121.6	0.00	3.35	1.21	1	9	2	98	0.00	0.0	5.508	0.068	9	2	3	3
PL.6898	PL.6896	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.00	0	0	0	100	0.00	0.0	5.599	0.091	0	0	0	0
PL.6973	PL.7045	A	6 A (CWC)	7.29Y	121.6	0.09	3.44	16.70	12	119	25	98	0.08	0.1	5.564	0.124	5	1	1	31
PL.7041	PL.6973	A	6 A (CWC)	7.29Y	121.5	0.04	3.49	14.75	11	105	22	98	0.04	0.0	5.631	0.067	1	0	1	28
PL.7042	PL.7041	A	6 A (CWC)	7.29Y	121.5	0.05	3.54	14.56	10	104	22	98	0.04	0.0	5.708	0.077	6	1	1	27
PL.7043	PL.7042	A	6 A (CWC)	7.29Y	121.4	0.02	3.56	13.79	10	98	21	98	0.02	0.0	5.744	0.037	0	0	0	26
PL.7044	PL.7043	A	6 A (CWC)	7.28Y	121.4	0.05	3.61	12.12	9	86	18	98	0.03	0.0	5.836	0.092	7	2	1	24
PL.7050	PL.7044	A	6 A (CWC)	7.28Y	121.4	0.03	3.64	11.12	8	79	17	98	0.02	0.0	5.909	0.072	10	2	2	23
PL.7051	PL.7050	A	6 A (CWC)	7.28Y	121.3	0.07	3.71	9.67	7	69	15	98	0.04	0.1	6.078	0.170	0	0	0	21
PL.6901	PL.7051	A	#4 ACSR	7.26Y	121.1	0.23	3.94	9.32	7	66	14	98	0.12	0.2	6.634	0.555	0	0	0	19
PL.6967	PL.6901	A	#4 ACSR	7.25Y	120.9	0.15	4.09	8.14	6	58	12	98	0.07	0.1	7.057	0.423	0	0	0	18
PL.6963	PL.6967	A	#4 ACSR	7.25Y	120.9	0.04	4.13	7.94	6	56	12	98	0.02	0.0	7.181	0.124	0	0	0	17
PL.7062	PL.6963	A	#4 ACSR	7.25Y	120.8	0.02	4.16	4.09	3	29	6	98	0.00	0.0	7.314	0.133	5	1	1	7
PL.7063	PL.7062	A	#4 ACSR	7.25Y	120.8	0.01	4.16	3.33	3	24	5	98	0.00	0.0	7.373	0.059	0	0	0	6

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6910	PL.7063	A	#4 ACSR	7.25Y	120.8	0.00	4.17	2.47	2	17	4	97	0.00	0.0	7.414	0.041	17	4	4	4
PL.6916	PL.7063	A	#4 ACSR	7.25Y	120.8	0.00	4.16	0.24	0	2	0	100	0.00	0.0	7.440	0.067	2	0	1	1
PL.6962	PL.7063	A	#4 ACSR	7.25Y	120.8	0.00	4.17	0.62	0	4	1	97	0.00	0.0	7.468	0.095	4	1	1	1
PL.6912	PL.6962	A	#2 ACSR	7.25Y	120.8	0.00	4.17	0.00	0	0	0	100	0.00	0.0	7.721	0.253	0	0	0	0
PL.6914	PL.6912	A	#1/0 ACSR	7.25Y	120.8	0.00	4.17	0.00	0	0	0	100	0.00	0.0	7.930	0.208	0	0	0	0
PL.6905	PL.6963	A	#4 ACSR	7.25Y	120.9	0.00	4.13	1.08	1	8	2	97	0.00	0.0	7.221	0.040	8	2	2	2
PL.7064	PL.6963	A	#4 ACSR	7.25Y	120.9	0.01	4.14	2.77	2	20	4	98	0.00	0.0	7.295	0.114	9	2	3	8
PL.7065	PL.7064	A	#4 ACSR	7.25Y	120.8	0.03	4.17	1.54	1	11	2	98	0.00	0.0	7.737	0.442	0	0	0	5
PL.7060	PL.7065	A	#4 ACSR	7.25Y	120.8	0.00	4.18	0.66	1	5	1	98	0.00	0.0	7.840	0.102	3	1	1	4
PL.7061	PL.7060	A	#4 ACSR	7.25Y	120.8	0.00	4.18	0.21	0	1	0	100	0.00	0.0	8.101	0.262	0	0	0	3
PL.6969	PL.7061	A	#4 ACSR	7.25Y	120.8	0.00	4.18	0.21	0	1	0	100	0.00	0.0	8.200	0.099	0	0	0	3
PL.6908	PL.6969	A	#4 ACSR	7.25Y	120.8	0.00	4.18	0.21	0	1	0	100	0.00	0.0	8.278	0.078	1	0	2	3
PL.6909	PL.6908	A	#4 ACSR	7.25Y	120.8	0.00	4.18	0.00	0	0	0	100	0.00	0.0	8.521	0.243	0	0	1	1
PL.6965	PL.7065	A	#4 ACSR	7.25Y	120.8	0.00	4.18	0.88	1	6	1	99	0.00	0.0	7.820	0.082	6	1	1	1
PL.6906	PL.6967	A	#4 ACSR	7.25Y	120.9	0.00	4.09	0.21	0	1	0	100	0.00	0.0	7.121	0.064	1	0	1	1
PL.6903	PL.6901	A	#1/0 ACSR	7.26Y	121.1	0.00	3.94	1.18	1	8	2	97	0.00	0.0	6.674	0.041	8	2	1	1
PL.7058	PL.7051	A	6 A (CWC)	7.28Y	121.3	0.00	3.71	0.35	0	2	1	89	0.00	0.0	6.179	0.101	2	0	1	2
PL.7059	PL.7058	A	6 A (CWC)	7.28Y	121.3	0.00	3.71	0.03	0	0	0	100	0.00	0.0	6.293	0.114	0	0	1	1
PL.6900	PL.7043	A	#4 ACSR	7.28Y	121.4	0.03	3.59	1.67	1	12	3	97	0.00	0.0	6.146	0.401	0	0	0	2
PL.7056	PL.6900	A	#4 ACSR	7.28Y	121.4	0.00	3.59	1.67	1	12	3	97	0.00	0.0	6.201	0.055	6	1	1	2
PL.7057	PL.7056	A	#4 ACSR	7.28Y	121.4	0.00	3.59	0.84	1	6	1	99	0.00	0.0	6.256	0.055	6	1	1	1
PL.7039	PL.6973	A	6 A (CWC)	7.29Y	121.6	0.01	3.45	1.21	1	9	2	98	0.00	0.0	5.697	0.133	0	0	0	2
PL.7040	PL.7039	A	6 A (CWC)	7.29Y	121.5	0.00	3.45	1.21	1	9	2	98	0.00	0.0	5.797	0.100	6	1	1	2
PL.6899	PL.7040	A	#4 ACSR	7.29Y	121.5	0.00	3.46	0.36	0	3	1	95	0.00	0.0	6.080	0.283	0	0	0	1
PL.7030	PL.6899	A	#4 ACSR	7.29Y	121.5	0.00	3.46	0.36	0	3	1	95	0.00	0.0	6.134	0.054	3	1	1	1
PL.6897	PL.7045	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.57	0	4	1	97	0.00	0.0	5.514	0.074	4	1	1	1
PL.6978	PL.6977	ABC	6 A (CWC)	7.32Y	122.0	0.00	3.00	1.06	1	22	8	94	0.00	0.0	5.043	0.013	0	0	0	2
PL.6893	PL.6978	B	#4 ACSR	7.32Y	122.0	0.00	3.00	1.10	1	8	2	97	0.00	0.0	5.100	0.057	8	2	1	1
PL.5956	PL.6978	ABC	1/0 AL URD	7.32Y	122.0	0.00	3.00	0.70	0	14	7	89	0.00	0.0	5.048	0.005	0	0	0	1
PD.1498	PL.5956	ABC	30T	7.32Y	122.0	0.00	3.00	0.70	0	14	7	89	0.00	0.0	5.048	0.005	0	0	0	1
PL.5957	PD.1498	ABC	1/0 AL URD	7.32Y	122.0	0.00	3.00	0.70	0	14	7	89	0.00	0.0	5.082	0.035	14	7	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.6891	PL.7033	ABC	6 A (CWC)	7.32Y	122.0	0.03	3.00	9.64	7	193	87	91	0.05	0.0	5.026	0.090	9	2	2	12
PL.6894	PL.6891	ABC	6 A (CWC)	7.32Y	122.0	0.02	3.03	9.23	7	184	85	91	0.03	0.0	5.088	0.062	1	0	1	10
PL.7109	PL.6894	A	6 A (CWC)	7.32Y	122.0	0.00	3.03	2.25	2	16	3	98	0.00	0.0	5.093	0.005	0	0	0	8
PD.1475	PL.7109	A	30T	7.32Y	122.0	0.00	3.03	2.25	0	16	3	98	0.00	0.0	5.093	0.005	0	0	0	8
PL.7110	PD.1475	A	6 A (CWC)	7.32Y	122.0	0.00	3.03	2.25	2	16	3	98	0.00	0.0	5.140	0.047	3	1	2	8
PL.7054	PL.7110	A	6 A (CWC)	7.32Y	122.0	0.00	3.03	1.88	1	13	3	97	0.00	0.0	5.156	0.016	0	0	0	6
PL.7055	PL.7054	A	6 A (CWC)	7.32Y	122.0	0.00	3.03	0.86	1	6	1	99	0.00	0.0	5.245	0.088	2	0	1	3
PL.6895	PL.7055	A	#2 ACSR	7.32Y	122.0	0.00	3.03	0.58	0	4	1	97	0.00	0.0	5.275	0.031	4	1	2	2
PL.32694	PL.7054	A	#1/0 ACSR	7.32Y	122.0	0.00	3.03	1.02	0	7	2	96	0.00	0.0	5.180	0.024	7	1	2	3
PL.65706	PL.32694	A	1/0 AL URD	7.32Y	122.0	0.00	3.03	0.11	0	1	0	100	0.00	0.0	5.215	0.035	0	0	0	1
PL.65707	PL.65706	A	1/0 AL URD	7.32Y	122.0	0.00	3.03	0.11	0	1	0	100	0.00	0.0	5.249	0.034	0	0	0	1
PL.65708	PL.65707	A	1/0 AL URD	7.32Y	122.0	0.00	3.03	0.11	0	1	0	100	0.00	0.0	5.277	0.028	1	0	1	1
PL.7052	PL.6894	ABC	6 A (CWC)	7.32Y	121.9	0.03	3.06	8.47	6	167	81	90	0.05	0.0	5.189	0.101	0	0	0	1
PL.7053	PL.7052	ABC	6 A (CWC)	7.32Y	121.9	0.01	3.07	8.47	6	167	81	90	0.01	0.0	5.231	0.042	167	81	1	1
PL.6886	PL.7032	A	#4 ACSR	7.34Y	122.3	0.00	2.70	1.24	1	9	2	98	0.00	0.0	4.622	0.037	9	2	1	1
PL.5916	PL.6931	C	#4 ACSR	7.35Y	122.5	0.00	2.51	0.01	0	0	0	100	0.00	0.0	4.405	0.005	0	0	0	1
PD.1477	PL.5916	C	30T	7.35Y	122.5	0.00	2.51	0.01	0	0	0	100	0.00	0.0	4.405	0.005	0	0	0	1
PL.5917	PD.1477	C	#4 ACSR	7.35Y	122.5	0.00	2.51	0.01	0	0	0	100	0.00	0.0	4.681	0.276	0	0	1	1
PL.7025	PL.6927	C	#4 ACSR	7.38Y	122.9	0.00	2.06	0.94	1	7	1	99	0.00	0.0	4.001	0.029	0	0	1	3
PL.7026	PL.7025	C	#4 ACSR	7.38Y	122.9	0.00	2.06	0.94	1	7	1	99	0.00	0.0	4.025	0.024	7	1	2	2
PL.6871	PL.6870	C	6 A (CWC)	7.38Y	123.0	0.00	1.97	0.95	1	7	1	99	0.00	0.0	3.947	0.061	7	1	1	1
PL.5936	PL.7248	C	#1/0 ACSR	7.39Y	123.2	0.00	1.83	0.30	0	2	0	100	0.00	0.0	3.767	0.005	0	0	0	1
PD.1489	PL.5936	C	30T	7.39Y	123.2	0.00	1.83	0.30	0	2	0	100	0.00	0.0	3.767	0.005	0	0	0	1
PL.5937	PD.1489	C	#1/0 ACSR	7.39Y	123.2	0.00	1.83	0.30	0	2	0	100	0.00	0.0	3.777	0.011	0	0	0	1
PL.7023	PL.5937	C	#1/0 ACSR	7.39Y	123.2	0.00	1.83	0.30	0	2	0	100	0.00	0.0	3.808	0.031	2	0	1	1
PL.7024	PL.7023	C	#1/0 ACSR	7.39Y	123.2	0.00	1.83	0.00	0	0	0	100	0.00	0.0	3.853	0.045	0	0	0	0
PL.7129	PL.6945	C	#2 ACSR	7.39Y	123.2	0.00	1.78	7.25	4	52	11	98	0.00	0.0	3.572	0.002	0	0	0	8
PD.1508	PL.7129	C	30T	7.39Y	123.2	0.00	1.78	7.25	0	52	11	98	0.00	0.0	3.572	0.002	0	0	0	8
PL.7130	PD.1508	C	#2 ACSR	7.39Y	123.2	0.00	1.79	7.25	4	52	11	98	0.00	0.0	3.582	0.009	11	2	2	8
PL.6880	PL.7130	C	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.48	0	3	1	95	0.00	0.0	3.614	0.032	3	1	1	1
PL.28008	PL.7130	C	#4 ACSR	7.39Y	123.2	0.01	1.80	5.24	4	38	8	98	0.00	0.0	3.623	0.042	0	0	0	5

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

Balanced Voltage Drop Report
Source: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.28009	PL.28008	C	#4 ACSR	7.39Y	123.2	0.01	1.81	5.24	4	38	8	98	0.00	0.0	3.687	0.064	7	2	1	5
PL.6883	PL.28009	C	#4 ACSR	7.39Y	123.2	0.00	1.81	1.12	1	8	2	97	0.00	0.0	3.749	0.062	8	2	2	2
PL.7027	PL.28009	C	#4 ACSR	7.39Y	123.2	0.01	1.82	3.10	2	22	5	98	0.00	0.0	3.791	0.104	8	2	1	2
PL.7028	PL.7027	C	#4 ACSR	7.39Y	123.2	0.00	1.82	1.92	1	14	3	98	0.00	0.0	3.867	0.076	14	3	1	1
PL.7139	PL.6923	A	#1/0 ACSR	7.41Y	123.5	0.00	1.50	5.90	3	43	9	98	0.00	0.0	2.548	0.005	0	0	0	10
PD.1513	PL.7139	A	30T	7.41Y	123.5	0.00	1.50	5.90	0	43	9	98	0.00	0.0	2.548	0.005	0	0	0	10
PL.7140	PD.1513	A	#1/0 ACSR	7.41Y	123.5	0.01	1.51	5.90	3	43	9	98	0.00	0.0	2.601	0.053	14	3	2	10
PL.6865	PL.7140	A	#4 ACSR	7.41Y	123.5	0.01	1.51	3.96	3	29	6	98	0.00	0.0	2.662	0.061	18	4	2	8
PL.6866	PL.6865	A	#2 ACSR	7.41Y	123.5	0.00	1.52	1.51	1	11	2	98	0.00	0.0	2.722	0.060	11	2	6	6
PL.7141	PL.6922	A	6 A (CWC)	7.41Y	123.5	0.00	1.48	1.43	1	10	2	98	0.00	0.0	2.488	0.005	0	0	0	1
PD.1514	PL.7141	A	30T	7.41Y	123.5	0.00	1.48	1.43	0	10	2	98	0.00	0.0	2.488	0.005	0	0	0	1
PL.7142	PD.1514	A	6 A (CWC)	7.41Y	123.5	0.00	1.48	1.43	1	10	2	98	0.00	0.0	2.544	0.057	10	2	1	1
PL.6864	PL.6921	ABC	#1/0 ACSR	7.42Y	123.6	0.00	1.39	0.65	0	14	4	96	0.00	0.0	2.221	0.002	5	2	1	2
PL.7107	PL.6864	B	#1/0 ACSR	7.42Y	123.6	0.00	1.39	1.22	1	9	2	98	0.00	0.0	2.226	0.005	0	0	0	1
PD.1474	PL.7107	B	65T	7.42Y	123.6	0.00	1.39	1.22	0	9	2	98	0.00	0.0	2.226	0.005	0	0	0	1
PL.7108	PD.1474	B	#1/0 ACSR	7.42Y	123.6	0.00	1.39	1.22	1	9	2	98	0.00	0.0	2.258	0.032	9	2	1	1
PL.5946	PL.6920	A	#4 ACSR	7.42Y	123.6	0.00	1.37	3.88	3	28	6	98	0.00	0.0	2.179	0.007	0	0	0	7
PD.1493	PL.5946	A	65T	7.42Y	123.6	0.00	1.37	3.88	0	28	6	98	0.00	0.0	2.179	0.007	0	0	0	7
PL.5947	PD.1493	A	#4 ACSR	7.42Y	123.6	0.00	1.37	3.88	3	28	6	98	0.00	0.0	2.197	0.017	28	6	7	7
PL.5927	PL.7071	A	#1/0 ACSR	7.42Y	123.7	0.00	1.32	0.83	0	6	1	99	0.00	0.0	2.058	0.021	2	0	1	4
PL.6863	PL.5927	A	#1/0 ACSR	7.42Y	123.7	0.00	1.32	0.54	0	4	1	97	0.00	0.0	2.078	0.020	4	1	3	3
PL.7125	PL.5555	ABC	336 MCM AC	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	1.820	0.000	0	0	0	0
PD.1506-A	PL.7125	ABC	Open	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	1.820	0.000	0	0	0	0
PL.7099	PL.6919	A	6 A (CWC)	7.44Y	124.1	0.00	0.93	3.37	2	25	5	98	0.00	0.0	1.346	0.005	0	0	0	4
PD.1470	PL.7099	A	65T	7.44Y	124.1	0.00	0.93	3.37	0	25	5	98	0.00	0.0	1.346	0.005	0	0	0	4
PL.7100	PD.1470	A	6 A (CWC)	7.44Y	124.1	0.00	0.94	3.37	2	25	5	98	0.00	0.0	1.376	0.030	1	0	1	4
PL.6995	PL.7100	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	3.20	1	23	5	98	0.00	0.0	1.424	0.048	16	3	2	3
PL.6996	PL.6995	A	#1/0 ACSR	7.44Y	124.1	0.00	0.94	0.95	0	7	1	99	0.00	0.0	1.469	0.044	7	1	1	1
PL.5934	PL.6918	C	#2 ACSR	7.45Y	124.1	0.00	0.88	0.00	0	0	0	100	0.00	0.0	1.267	0.005	0	0	0	0
PD.1487	PL.5934	C	65T	7.45Y	124.1	0.00	0.88	0.00	0	0	0	100	0.00	0.0	1.267	0.005	0	0	0	0
PL.5935	PD.1487	C	#2 ACSR	7.45Y	124.1	0.00	0.88	0.00	0	0	0	100	0.00	0.0	1.307	0.040	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: Greenbriar

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																KW	KVAR	Cons On	Cons Thru	
PL.7095	PL.6993	B	6 A (CWC)	7.47Y	124.4	0.00	0.55	2.27	2	17	4	97	0.00	0.0	0.755	0.005	0	0	0	8
PD.1468	PL.7095	B	65T	7.47Y	124.4	0.00	0.55	2.27	0	17	4	97	0.00	0.0	0.755	0.005	0	0	0	8
PL.7096	PD.1468	B	6 A (CWC)	7.47Y	124.4	0.00	0.55	2.27	2	17	4	97	0.00	0.0	0.803	0.048	17	4	8	8
PL.6854	PL.6853	ABC	#1/0 ACSR	7.47Y	124.5	0.00	0.50	0.68	0	15	3	98	0.00	0.0	0.730	0.055	0	0	0	5
PL.6855	PL.6854	ABC	6 A (CWC)	7.47Y	124.5	0.00	0.50	0.68	0	15	3	98	0.00	0.0	0.731	0.002	4	1	3	5
PL.7101	PL.6855	B	#4 ACSR	7.47Y	124.5	0.00	0.50	1.51	1	11	2	98	0.00	0.0	0.736	0.005	0	0	0	2
PD.1471	PL.7101	B	65T	7.47Y	124.5	0.00	0.50	1.51	0	11	2	98	0.00	0.0	0.736	0.005	0	0	0	2
PL.7102	PD.1471	B	#4 ACSR	7.47Y	124.5	0.00	0.50	1.51	1	11	2	98	0.00	0.0	0.841	0.105	11	2	2	2
PL.7105	PL.6974	B	6 A (CWC)	7.48Y	124.6	0.00	0.39	1.09	1	8	2	97	0.00	0.0	0.524	0.005	0	0	0	1
PD.1473	PL.7105	B	65T	7.48Y	124.6	0.00	0.39	1.09	0	8	2	97	0.00	0.0	0.524	0.005	0	0	0	1
PL.7106	PD.1473	B	6 A (CWC)	7.48Y	124.6	0.00	0.40	1.09	1	8	2	97	0.00	0.0	0.552	0.028	8	2	1	1
PL.7168	PL.7186	ABC	336 MCM AC	7.48Y	124.7	0.00	0.28	0.00	0	0	0	100	0.00	0.0	0.359	0.002	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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	10578	0	0	0	0	0	143		0.00	10721	Lowest Voltage =	118.64	on Element PL.5299
KVAR	3165	0	0	0	0	0	251			3415	Max Accm VoltD =	6.36	on Element PL.5299
											Max Elem VoltD =	1.23	on Element PL.5276