Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
Laurel Ind 1		ABC	SRC-Laurel	7.50Y	125.0	0.00	0.00	490.29	0	10473	3465	95	0.00	0.0	0.000	0.000	0	0	0	658
PL.52995	Laurel Ind 1	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	101.86	20	2266	343	99	0.01	0.0	0.005	0.005	0	0	0	2
PL.61371	PL.52995	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	101.86	20	2266	343	99	0.00	0.0	0.007	0.003	0	0	0	2
---------- Feeder No. 2 (Laurel Ind F2) Beginning with Device PD.9263 ----------																				
PD.9263	PL.61371	ABC	480VWE	7.50Y	125.0	0.00	0.00	101.86	0	2266	343	99	0.00	0.0	0.007	0.003	0	0	0	2
PL.61383	PD.9263	ABC	397 SPACER	7.50Y	124.9	0.06	0.06	101.86	20	2266	343	99	0.39	0.0	0.295	0.288	0	0	0	2
PL.61058	PL.61383	ABC	397 SPACER	7.48Y	124.6	0.31	0.37	101.86	20	2266	338	99	2.11	0.1	1.835	1.540	0	0	0	2
PL.61056	PL.61058	ABC	397 SPACER	7.48Y	124.6	0.01	0.38	101.86	20	2263	313	99	0.07	0.0	1.885	0.050	0	0	0	2
PL.34590	PL.61056	ABC	750 MCM AL	7.47Y	124.5	0.13	0.50	101.86	20	2263	313	99	1.87	0.1	2.308	0.423	0	0	0	2
PD.5882-A	PL.34590	ABC	Closed	7.47Y	124.5	0.00	0.50	101.86	0	2261	309	99	0.00	0.0	2.308	0.423	0	0	0	2
PD.5882-B	PD.5882-A	ABC	Closed	7.47Y	124.5	0.00	0.50	101.86	0	2261	309	99	0.00	0.0	2.308	0.423	0	0	0	2
PL.33343	PD.5882-B	ABC	750 MCM AL	7.47Y	124.5	0.00	0.50	0.00	0	0	0	100	0.00	0.0	2.325	0.017	0	0	0	0
PL.34869	PD.5882-B	ABC	750 MCM AL	7.47Y	124.5	0.04	0.54	101.86	20	2261	309	99	0.55	0.0	2.434	0.126	0	0	0	2
PD.5873-A	PL.34869	ABC	Closed	7.47Y	124.5	0.00	0.54	101.86	0	2261	308	99	0.00	0.0	2.434	0.126	0	0	0	2
PD.5873-B	PD.5873-A	ABC	Closed	7.47Y	124.5	0.00	0.54	101.86	0	2261	308	99	0.00	0.0	2.434	0.126	0	0	0	2
PL.33344	PD.5873-B	ABC	750 MCM AL	7.47Y	124.4	0.02	0.56	101.86	20	2261	308	99	0.30	0.0	2.501	0.068	0	0	0	2
PL.34593	PL.33344	ABC	750 MCM AL	7.47Y	124.4	0.00	0.56	10.32	2	229	31	99	0.00	0.0	2.573	0.072	0	0	0	1
PL.34740	PL.34593	ABC	750 MCM AL	7.47Y	124.4	0.00	0.57	10.32	2	229	31	99	0.00	0.0	2.640	0.067	0	0	0	1
PL.34741	PL.34740	ABC	750 MCM AL	7.47Y	124.4	0.00	0.57	10.32	2	229	31	99	0.00	0.0	2.721	0.080	229	31	1	1
PL.33345	PL.33344	ABC	750 MCM AL	7.47Y	124.4	0.00	0.57	91.54	18	2032	277	99	0.06	0.0	2.518	0.016	0	0	0	1
PL.34052	PL.33345	ABC	750 MCM AL	7.46Y	124.4	0.06	0.63	91.54	18	2032	276	99	0.81	0.0	2.744	0.227	0	0	0	1
PL.34057	PL.34052	ABC	750 MCM AL	7.46Y	124.4	0.00	0.63	0.00	0	0	0	100	0.00	0.0	2.826	0.081	0	0	0	0
PL.34055	PL.34052	ABC	350 MCM UR	7.46Y	124.3	0.04	0.67	87.65	27	1944	263	99	0.38	0.0	2.924	0.180	1944	263	0	0
PL.34053	PL.34052	ABC	1/0 AL URD	7.46Y	124.4	0.00	0.63	3.89	2	86	12	99	0.00	0.0	2.792	0.047	86	12	1	1
PL.63312	Laurel Ind 1	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	150.22	29	3309	691	98	0.01	0.0	0.002	0.002	0	0	0	76
PL.63311	PL.63312	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	150.22	29	3309	691	98	0.01	0.0	0.004	0.002	0	0	0	76
---------- Feeder No. 5 (London F5) Beginning with Device PD.9264 ----------																				
PD.9264	PL.63311	ABC	480VWE	7.50Y	125.0	0.00	0.00	150.22	0	3309	691	98	0.00	0.0	0.004	0.002	0	0	0	76

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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.63313	PD.9264	ABC	750 MCM AL	7.50Y	125.0	0.01	0.02	150.22	30	3309	691	98	0.30	0.0	0.035	0.031	0	0	0	76
PL.63314	PL.63313	ABC	397 SPACER	7.49Y	124.9	0.09	0.11	150.22	29	3308	690	98	0.74	0.0	0.284	0.249	0	0	0	76
PL.61384	PL.63314	ABC	397 SPACER	7.49Y	124.8	0.09	0.20	150.22	29	3308	681	98	0.74	0.0	0.531	0.247	0	0	0	76
PL.61057	PL.61384	ABC	336 MCM AC	7.48Y	124.6	0.17	0.37	150.22	29	3307	673	98	3.19	0.1	0.699	0.168	0	0	0	76
PL.62934	PL.61057	ABC	336 MCM AC	7.47Y	124.5	0.17	0.54	150.22	29	3304	665	98	3.13	0.1	0.864	0.165	0	0	0	76
PL.62935	PL.62934	ABC	336 MCM AC	7.44Y	124.0	0.49	1.03	150.22	29	3301	658	98	9.23	0.3	1.349	0.486	0	0	0	76
PL.59695	PL.62935	ABC	336 MCM AC	7.44Y	123.9	0.03	1.05	70.76	14	1532	382	97	0.24	0.0	1.407	0.057	6	3	1	70
PL.36068	PL.59695	ABC	336 MCM AC	7.42Y	123.7	0.28	1.33	70.48	14	1526	379	97	2.28	0.1	1.954	0.547	7	3	3	69
PL.35036	PL.36068	ABC	#2 ACSR	7.42Y	123.7	0.00	1.33	2.59	1	57	8	99	0.00	0.0	2.018	0.064	57	8	1	1
PL.35291	PL.36068	ABC	336 MCM AC	7.41Y	123.6	0.10	1.43	67.48	13	1458	362	97	0.77	0.1	2.154	0.200	0	0	0	64
PL.35109	PL.35291	ABC	#4 ACSR	7.41Y	123.5	0.03	1.46	13.93	11	298	83	96	0.07	0.0	2.213	0.060	0	0	0	17
PL.35843	PL.35109	ABC	#4 ACSR	7.41Y	123.5	0.02	1.48	10.32	8	222	58	97	0.04	0.0	2.277	0.064	1	0	1	11
PL.35844	PL.35843	ABC	#4 ACSR	7.41Y	123.5	0.02	1.50	10.28	8	221	57	97	0.03	0.0	2.323	0.046	54	7	1	10
PL.35841	PL.35844	ABC	#4 ACSR	7.41Y	123.5	0.00	1.50	7.83	6	167	50	96	0.00	0.0	2.334	0.011	23	11	1	9
PL.35842	PL.35841	ABC	#4 ACSR	7.41Y	123.5	0.01	1.51	6.71	5	144	39	97	0.01	0.0	2.365	0.031	24	12	2	8
PL.35631	PL.35842	ABC	#4 ACSR	7.41Y	123.5	0.01	1.52	5.52	4	120	27	98	0.01	0.0	2.400	0.036	0	0	0	6
PL.35633	PL.35631	C	#4 ACSR	7.41Y	123.5	0.00	1.52	4.64	4	31	15	90	0.00	0.0	2.401	0.001	0	0	0	5
PD.5023	PL.35633	C	60QA	7.41Y	123.5	0.00	1.52	4.64	8	31	15	90	0.00	0.0	2.401	0.001	0	0	0	5
PL.35635	PD.5023	C	#4 ACSR	7.41Y	123.5	0.01	1.52	4.64	4	31	15	90	0.00	0.0	2.437	0.035	10	5	2	5
PL.37152	PL.35635	C	#4 ACSR	7.41Y	123.5	0.00	1.52	3.12	2	21	10	90	0.00	0.0	2.444	0.008	0	0	1	3
PL.35634	PL.37152	C	#4 ACSR	7.41Y	123.5	0.01	1.53	3.10	2	21	10	90	0.00	0.0	2.554	0.110	21	10	2	2
PL.35632	PL.35631	ABC	#4 ACSR	7.41Y	123.5	0.02	1.53	4.03	3	89	12	99	0.01	0.0	2.602	0.202	89	12	1	1
PL.34836	PL.35632	ABC	#4 ACSR	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	2.608	0.006	0	0	0	0
PL.34829	PL.34836	ABC	1/0 AL URD	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	2.609	0.000	0	0	0	0
PD.5024	PL.34829	ABC	25QA	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	2.609	0.000	0	0	0	0
PL.34837	PD.5024	ABC	1/0 AL URD	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	2.656	0.047	0	0	0	0
PL.33991	PL.34837	ABC	1/0 AL URD	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	2.687	0.032	0	0	0	0
PL.35839	PL.35109	ABC	#4 ACSR	7.41Y	123.5	0.00	1.46	3.61	3	76	26	95	0.00	0.0	2.222	0.009	0	0	0	6
PL.35990	PL.35839	ABC	#4 ACSR	7.41Y	123.5	0.00	1.46	0.93	1	19	9	90	0.00	0.0	2.267	0.044	19	9	1	1
PL.35840	PL.35839	ABC	#4 ACSR	7.41Y	123.5	0.00	1.46	2.69	2	57	17	96	0.00	0.0	2.265	0.043	0	0	0	5
PL.35661	PL.35840	ABC	#4 ACSR	7.41Y	123.5	0.00	1.46	0.00	0	0	0	100	0.00	0.0	2.311	0.046	0	0	0	0

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Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.35838	PL.35840	ABC	#4 ACSR	7.41Y	123.5	0.01	1.47	2.69	2	57	17	96	0.00	0.0	2.355	0.090	0	0	0	5
PL.34683	PL.35838	ABC	#4 ACSR	7.41Y	123.5	0.00	1.48	1.47	1	32	4	99	0.00	0.0	2.441	0.086	32	4	1	1
PL.36653	PL.35838	A	#4 ACSR	7.41Y	123.5	0.01	1.48	3.77	3	25	12	90	0.00	0.0	2.421	0.066	1	0	1	4
PL.36656	PL.36653	A	#4 ACSR	7.41Y	123.5	0.00	1.49	1.87	1	12	6	89	0.00	0.0	2.471	0.050	0	0	0	1
PL.33757	PL.36656	A	#2 ACSR	7.41Y	123.5	0.00	1.49	0.00	0	0	0	100	0.00	0.0	2.512	0.041	0	0	0	0
PL.36094	PL.36656	A	#4 ACSR	7.41Y	123.5	0.00	1.49	1.87	1	12	6	89	0.00	0.0	2.490	0.019	12	6	1	1
PL.36654	PL.36653	A	#2 ACSR	7.41Y	123.5	0.00	1.49	1.77	1	12	6	89	0.00	0.0	2.452	0.030	0	0	1	2
PL.36655	PL.36654	A	#2 ACSR	7.41Y	123.5	0.00	1.49	1.77	1	12	6	89	0.00	0.0	2.468	0.016	12	6	1	1
PL.36045	PL.35291	ABC	336 MCM AC	7.41Y	123.6	0.02	1.45	53.55	10	1159	277	97	0.12	0.0	2.202	0.048	0	0	0	47
PL.36046	PL.36045	ABC	336 MCM AC	7.40Y	123.3	0.21	1.66	53.55	10	1158	276	97	1.37	0.1	2.769	0.567	0	0	0	47
PD.5883-A	PL.36046	ABC	Closed	7.40Y	123.3	0.00	1.66	53.55	0	1157	273	97	0.00	0.0	2.769	0.567	0	0	0	47
PD.5883-B	PD.5883-A	ABC	Closed	7.40Y	123.3	0.00	1.66	53.55	0	1157	273	97	0.00	0.0	2.769	0.567	0	0	0	47
PL.35798	PD.5883-B	ABC	336 MCM AC	7.40Y	123.3	0.01	1.67	53.55	10	1157	273	97	0.09	0.0	2.806	0.037	0	0	1	47
PL.57165	PL.35798	ABC	336 MCM AC	7.40Y	123.3	0.00	1.68	6.85	1	137	66	90	0.00	0.0	2.872	0.066	0	0	0	16
PL.61081	PL.57165	ABC	336 MCM AC	7.40Y	123.3	0.00	1.68	6.85	1	137	66	90	0.00	0.0	2.881	0.009	0	0	0	16
PL.61080	PL.61081	ABC	336 MCM AC	7.40Y	123.3	0.01	1.69	6.20	1	124	60	90	0.00	0.0	3.007	0.126	9	5	1	15
PL.59936	PL.61080	ABC	336 MCM AC	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	3.044	0.037	0	0	0	0
PL.59940	PL.59936	ABC	336 MCM AC	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	3.047	0.003	0	0	0	0
PD.8900-B	PL.59940	ABC	Open	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	3.047	0.003	0	0	0	0
PL.34495	PL.61080	C	#4 ACSR	7.40Y	123.3	0.00	1.69	5.48	4	37	18	90	0.00	0.0	3.007	0.001	0	0	0	6
PD.5222	PL.34495	C	75QA	7.40Y	123.3	0.00	1.69	5.48	7	37	18	90	0.00	0.0	3.007	0.001	0	0	0	6
PL.35138	PD.5222	C	#4 ACSR	7.40Y	123.3	0.01	1.69	5.48	4	37	18	90	0.00	0.0	3.048	0.041	25	12	4	6
PL.34861	PL.35138	C	#4 ACSR	7.40Y	123.3	0.00	1.70	1.80	1	12	6	89	0.00	0.0	3.110	0.061	12	6	2	2
PL.35690	PL.61080	A	6 A (CWC)	7.40Y	123.3	0.00	1.69	11.68	8	78	38	90	0.00	0.0	3.007	0.001	0	0	0	8
PD.5146	PL.35690	A	75QA	7.40Y	123.3	0.00	1.69	11.68	16	78	38	90	0.00	0.0	3.007	0.001	0	0	0	8
PL.35913	PD.5146	A	6 A (CWC)	7.40Y	123.3	0.04	1.72	11.68	8	78	38	90	0.02	0.0	3.076	0.068	11	5	1	8
PL.35914	PL.35913	A	6 A (CWC)	7.40Y	123.3	0.01	1.73	8.21	6	55	26	90	0.00	0.0	3.103	0.027	23	11	2	6
PL.35297	PL.35914	A	6 A (CWC)	7.40Y	123.3	0.01	1.74	4.82	3	32	16	89	0.00	0.0	3.172	0.069	8	4	3	4
PL.35298	PL.35297	A	6 A (CWC)	7.40Y	123.3	0.00	1.75	3.62	3	24	12	89	0.00	0.0	3.199	0.027	24	12	1	1
PL.33442	PL.35913	A	6 A (CWC)	7.40Y	123.3	0.00	1.72	1.78	1	12	6	89	0.00	0.0	3.117	0.042	12	6	1	1
PL.61079	PL.61081	A	#1/0 ACSR	7.40Y	123.3	0.00	1.68	1.96	1	13	6	91	0.00	0.0	2.909	0.028	13	6	1	1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.57166	PL.57165	ABC	336 MCM AC	7.40Y	123.3	0.00	1.68	0.00	0	0	0	100	0.00	0.0	2.912	0.040	0	0	0	0
PD.5871-B	PL.57166	ABC	Open	7.40Y	123.3	0.00	1.68	0.00	0	0	0	100	0.00	0.0	2.912	0.040	0	0	0	0
PL.52654	PL.35798	ABC	336 MCM AC	7.40Y	123.3	0.04	1.72	46.89	9	1020	207	98	0.26	0.0	2.944	0.138	0	0	0	30
PL.52655	PL.52654	ABC	336 MCM AC	7.39Y	123.2	0.04	1.76	46.89	9	1020	206	98	0.25	0.0	3.078	0.134	0	0	0	30
PL.35435	PL.52655	ABC	336 MCM AC	7.39Y	123.2	0.02	1.78	46.89	9	1020	206	98	0.14	0.0	3.153	0.075	0	0	0	30
PL.35432	PL.35435	ABC	336 MCM AC	7.39Y	123.2	0.01	1.79	46.89	9	1019	205	98	0.06	0.0	3.183	0.030	0	0	0	30
PL.60990	PL.35432	ABC	336 MCM AC	7.39Y	123.2	0.02	1.81	46.89	9	1019	205	98	0.10	0.0	3.239	0.055	0	0	0	30
PL.63317	PL.60990	ABC	336 MCM AC	7.39Y	123.2	0.01	1.82	46.89	9	1019	205	98	0.08	0.0	3.282	0.043	0	0	1	30
PL.63318	PL.63317	ABC	336 MCM AC	7.39Y	123.1	0.04	1.87	46.89	9	1019	205	98	0.25	0.0	3.416	0.133	0	0	0	29
PL.35433	PL.63318	ABC	336 MCM AC	7.39Y	123.1	0.02	1.89	46.89	9	1019	204	98	0.11	0.0	3.481	0.065	91	12	1	29
PL.35434	PL.35433	ABC	336 MCM AC	7.39Y	123.1	0.01	1.90	42.77	8	928	192	98	0.07	0.0	3.523	0.042	0	0	0	28
PL.56342	PL.35434	ABC	336 MCM AC	7.39Y	123.1	0.01	1.91	27.97	5	606	132	98	0.03	0.0	3.576	0.052	1	0	1	23
PL.56341	PL.56342	ABC	#4 ACSR	7.39Y	123.1	0.00	1.91	1.72	1	38	5	99	0.00	0.0	3.591	0.015	38	5	1	1
PL.56343	PL.56342	ABC	336 MCM AC	7.39Y	123.1	0.01	1.92	26.22	5	567	127	98	0.02	0.0	3.611	0.036	1	0	1	21
PL.62437	PL.56343	ABC	336 MCM AC	7.38Y	123.1	0.00	1.92	26.20	5	566	126	98	0.01	0.0	3.637	0.026	0	0	0	20
PL.62424	PL.62437	A	6 A (CWC)	7.38Y	123.1	0.00	1.92	0.10	0	1	0	100	0.00	0.0	3.698	0.061	1	0	1	1
PL.62427	PL.62437	A	#4 ACSR	7.38Y	123.1	0.00	1.92	21.23	16	141	68	90	0.00	0.0	3.638	0.001	0	0	0	14
PD.9334	PL.62427	A	40QA	7.38Y	123.1	0.00	1.92	21.23	53	141	68	90	0.00	0.0	3.638	0.001	0	0	0	14
PL.62428	PD.9334	A	#4 ACSR	7.38Y	123.1	0.01	1.93	21.23	16	141	68	90	0.01	0.0	3.650	0.012	0	0	0	14
PL.60703	PL.62428	A	#4 ACSR	7.38Y	123.0	0.05	1.98	21.23	16	141	68	90	0.05	0.0	3.710	0.060	45	22	3	14
PL.60704	PL.60703	A	#4 ACSR	7.38Y	123.0	0.03	2.01	14.51	11	96	47	90	0.02	0.0	3.763	0.053	37	18	2	11
PL.34563	PL.60704	A	#4 ACSR	7.38Y	123.0	0.00	2.01	8.98	7	60	29	90	0.00	0.0	3.769	0.005	0	0	0	9
PL.34905	PL.34563	A	1/0 AL URD	7.38Y	123.0	0.00	2.01	8.98	5	60	29	90	0.00	0.0	3.769	0.000	0	0	0	9
PD.5025	PL.34905	A	75QA	7.38Y	123.0	0.00	2.01	8.98	12	60	29	90	0.00	0.0	3.769	0.000	0	0	0	9
PL.36390	PD.5025	A	1/0 AL URD	7.38Y	123.0	0.01	2.03	8.98	5	60	29	90	0.01	0.0	3.813	0.044	0	0	0	9
PL.36934	PL.36390	A	#4 ACSR	7.38Y	123.0	0.00	2.03	8.98	7	60	29	90	0.00	0.0	3.814	0.000	0	0	0	9
PD.5089	PL.36934	A	60QA	7.38Y	123.0	0.00	2.03	8.98	15	60	29	90	0.00	0.0	3.814	0.000	0	0	0	9
PL.36935	PD.5089	A	#4 ACSR	7.38Y	123.0	0.00	2.03	8.98	7	60	29	90	0.00	0.0	3.818	0.005	41	20	6	9
PL.36933	PL.36935	A	#4 ACSR	7.38Y	123.0	0.01	2.04	2.74	2	18	9	89	0.00	0.0	3.900	0.082	0	0	0	3
PL.36929	PL.36933	A	#4 ACSR	7.38Y	123.0	0.00	2.04	2.74	2	18	9	89	0.00	0.0	3.944	0.044	7	3	1	3
PL.36930	PL.36929	A	#4 ACSR	7.38Y	123.0	0.00	2.04	1.66	1	11	5	91	0.00	0.0	3.965	0.021	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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.36931	PL.36930	A	#4 ACSR	7.38Y	123.0	0.00	2.04	1.66	1	11	5	91	0.00	0.0	3.984	0.018	11	5	2	2
PL.36932	PL.36931	A	#4 ACSR	7.38Y	123.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	4.003	0.019	0	0	0	0
PL.63099	PL.36933	A	#1/0 ACSR	7.38Y	123.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	3.960	0.059	0	0	0	0
PL.63102	PL.62437	ABC	#1/0 ACSR	7.38Y	123.1	0.00	1.92	19.35	8	425	58	99	0.01	0.0	3.649	0.012	0	0	1	5
PL.63103	PL.63102	ABC	#1/0 ACSR	7.38Y	123.1	0.02	1.94	19.35	8	425	58	99	0.05	0.0	3.702	0.053	0	0	0	4
PL.62503	PL.63103	ABC	1/0 AL URD	7.38Y	123.1	0.00	1.94	0.00	0	0	0	100	0.00	0.0	3.722	0.020	0	0	0	0
PL.62504	PL.63103	ABC	#1/0 ACSR	7.38Y	123.1	0.00	1.95	19.35	8	425	58	99	0.01	0.0	3.714	0.012	0	0	0	4
PL.35124	PL.62504	ABC	#4 ACSR	7.38Y	123.1	0.00	1.95	1.07	1	24	3	99	0.00	0.0	3.730	0.016	24	3	1	1
PL.60634	PL.62504	ABC	#1/0 ACSR	7.38Y	123.0	0.10	2.05	18.27	8	401	54	99	0.30	0.1	4.049	0.335	0	0	0	3
PL.60636	PL.60634	ABC	1/0 AL URD	7.38Y	123.0	0.00	2.05	14.64	9	321	43	99	0.01	0.0	4.057	0.008	0	0	0	1
PD.9052	PL.60636	ABC	100CodeSMo	7.38Y	123.0	0.00	2.05	14.64	0	321	43	99	0.00	0.0	4.057	0.008	0	0	0	1
PL.60637	PD.9052	ABC	1/0 AL URD	7.38Y	122.9	0.01	2.05	14.64	9	321	43	99	0.01	0.0	4.094	0.037	321	43	1	1
PL.60635	PL.60634	ABC	#1/0 ACSR	7.38Y	122.9	0.00	2.05	3.64	2	80	11	99	0.00	0.0	4.209	0.161	80	11	2	2
PL.33681	PL.35434	ABC	336 MCM AC	7.39Y	123.1	0.00	1.90	7.60	1	164	38	97	0.00	0.0	3.545	0.022	164	38	4	4
PL.34328	PL.35434	ABC	336 MCM AC	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	3.569	0.046	0	0	0	0
PD.5884-A	PL.34328	ABC	Open	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	3.569	0.046	0	0	0	0
PL.33220	PL.35434	ABC	#4 ACSR	7.39Y	123.1	0.00	1.90	7.22	6	158	21	99	0.00	0.0	3.558	0.035	158	21	1	1
CP.99	PL.52654	ABC	Cap (300)	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	2.944	0.035	0	0	0	0
PL.63315	PL.35291	ABC	#4 ACSR	7.41Y	123.6	0.00	1.43	0.00	0	0	0	100	0.00	0.0	2.155	0.002	0	0	0	0
PL.35518	PL.36068	C	#2 ACSR	7.42Y	123.7	0.00	1.33	0.33	0	2	1	89	0.00	0.0	1.956	0.002	0	0	0	1
PD.5842	PL.35518	C	60QA	7.42Y	123.7	0.00	1.33	0.33	1	2	1	89	0.00	0.0	1.956	0.002	0	0	0	1
PL.35519	PD.5842	C	#2 ACSR	7.42Y	123.7	0.00	1.33	0.33	0	2	1	89	0.00	0.0	2.036	0.081	2	1	1	1
PL.59693	PL.62935	ABC	#1/0 ACSR	7.43Y	123.9	0.11	1.13	79.65	35	1759	254	99	1.38	0.1	1.431	0.082	0	0	0	6
PL.59697	PL.59693	ABC	#1/0 ACSR	7.43Y	123.8	0.05	1.18	78.40	34	1731	240	99	0.62	0.0	1.469	0.038	0	0	0	1
PL.59698	PL.59697	C	#2 ACSR	7.43Y	123.8	0.00	1.18	0.15	0	1	0	100	0.00	0.0	1.469	0.000	0	0	0	1
PD.5733	PL.59698	C	60QA	7.43Y	123.8	0.00	1.18	0.15	0	1	0	100	0.00	0.0	1.469	0.000	0	0	0	1
PL.35387	PD.5733	C	#2 ACSR	7.43Y	123.8	0.00	1.18	0.15	0	1	0	100	0.00	0.0	1.507	0.038	1	0	1	1
PL.59696	PL.59697	ABC	#1/0 ACSR	7.43Y	123.8	0.02	1.20	78.35	34	1730	239	99	0.24	0.0	1.484	0.015	0	0	0	0
PD.8894	PL.59696	ABC	351VWE	7.43Y	123.8	0.00	1.20	78.35	0	1730	238	99	0.00	0.0	1.484	0.015	0	0	0	0
PL.59700	PD.8894	ABC	#1/0 ACSR	7.43Y	123.8	0.03	1.23	78.35	34	1730	238	99	0.33	0.0	1.504	0.020	0	0	0	0
PL.59699	PL.59700	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.23	78.35	34	1729	238	99	0.05	0.0	1.507	0.003	0	0	0	0

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

Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.52801	PL.59699	ABC	#1/0 ACSR	7.42Y	123.7	0.05	1.29	78.35	34	1729	238	99	0.68	0.0	1.548	0.042	0	0	0	0
PL.52798	PL.52801	ABC	#1/0 ACSR	7.41Y	123.6	0.15	1.44	78.35	34	1728	237	99	1.94	0.1	1.667	0.119	0	0	0	0
PL.36207	PL.52798	ABC	#1/0 ACSR	7.41Y	123.5	0.06	1.50	78.35	34	1727	236	99	0.78	0.0	1.715	0.048	0	0	0	0
PL.36206	PL.36207	ABC	#1/0 ACSR	7.41Y	123.4	0.06	1.56	78.35	34	1726	235	99	0.71	0.0	1.758	0.043	0	0	0	0
PL.36033	PL.36206	ABC	#1/0 ACSR	7.40Y	123.4	0.07	1.63	78.35	34	1725	234	99	0.94	0.1	1.815	0.057	0	0	0	0
PL.36043	PL.36033	ABC	#1/0 ACSR	7.40Y	123.4	0.01	1.64	78.35	34	1724	233	99	0.09	0.0	1.821	0.006	0	0	0	0
PL.33998	PL.36043	ABC	1/0 AL URD	7.40Y	123.4	0.00	1.64	78.35	46	1724	233	99	0.00	0.0	1.821	0.000	0	0	0	0
PD.5211	PL.33998	ABC	140L	7.40Y	123.4	0.00	1.64	78.35	56	1724	233	99	0.00	0.0	1.821	0.000	0	0	0	0
PL.33999	PD.5211	ABC	1/0 AL URD	7.40Y	123.4	0.00	1.64	78.35	46	1724	233	99	0.01	0.0	1.823	0.002	1724	233	0	0
PL.59692	PL.36206	ABC	#1/0 ACSR	7.41Y	123.4	0.00	1.56	0.00	0	0	0	100	0.00	0.0	1.785	0.027	0	0	0	0
PL.34630	PL.36206	ABC	#1/0 ACSR	7.41Y	123.4	0.00	1.56	0.00	0	0	0	100	0.00	0.0	1.852	0.094	0	0	0	0
PL.34902	PL.36207	ABC	#1/0 ACSR	7.41Y	123.5	0.00	1.50	0.00	0	0	0	100	0.00	0.0	1.736	0.022	0	0	0	0
PL.52799	PL.52801	ABC	#1/0 ACSR	7.42Y	123.7	0.00	1.29	0.00	0	0	0	100	0.00	0.0	1.592	0.043	0	0	0	0
PL.52800	PL.52801	ABC	#2 ACSR	7.42Y	123.7	0.00	1.29	0.00	0	0	0	100	0.00	0.0	1.562	0.014	0	0	0	0
PL.52802	PL.59699	C	#2 ACSR	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.507	0.000	0	0	0	0
PD.5163	PL.52802	C	30QA	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.507	0.000	0	0	0	0
PL.35389	PD.5163	C	#2 ACSR	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	1.557	0.050	0	0	0	0
PL.33805	PL.59693	C	#4 ACSR	7.43Y	123.9	0.00	1.13	3.96	3	26	13	89	0.00	0.0	1.432	0.001	0	0	0	5
PD.5754	PL.33805	C	75QA	7.43Y	123.9	0.00	1.13	3.96	5	26	13	89	0.00	0.0	1.432	0.001	0	0	0	5
PL.33683	PD.5754	C	#4 ACSR	7.43Y	123.8	0.02	1.15	3.96	3	26	13	89	0.00	0.0	1.528	0.096	1	0	1	5
PL.33684	PL.33683	C	#4 ACSR	7.43Y	123.8	0.01	1.16	1.83	1	12	6	89	0.00	0.0	1.631	0.103	0	0	0	2
PL.33520	PL.33684	C	#4 ACSR	7.43Y	123.8	0.00	1.16	1.50	1	10	5	89	0.00	0.0	1.714	0.083	10	5	1	1
PL.35252	PL.33684	C	#4 ACSR	7.43Y	123.8	0.00	1.16	0.33	0	2	1	89	0.00	0.0	1.695	0.064	2	1	1	1
PL.36020	PL.33683	C	#4 ACSR	7.43Y	123.8	0.01	1.16	2.06	2	14	7	89	0.00	0.0	1.599	0.071	0	0	1	2
PL.36021	PL.36020	C	#4 ACSR	7.43Y	123.8	0.00	1.16	2.06	2	14	7	89	0.00	0.0	1.705	0.106	14	7	1	1
PL.59694	PL.62935	C	#4 ACSR	7.44Y	124.0	0.00	1.03	0.00	0	0	0	100	0.00	0.0	1.353	0.003	0	0	0	0
CP.101	PL.62934	ABC	Cap (300)	7.47Y	124.5	0.00	0.54	0.00	0	0	0	100	0.00	0.0	0.864	0.003	0	0	0	0
PL.52996	Laurel Ind 1	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	243.06	47	4899	2432	90	0.03	0.0	0.004	0.004	0	0	0	580
PL.52997	PL.52996	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	243.06	47	4899	2431	90	0.02	0.0	0.006	0.002	0	0	0	580

---------- Feeder No. 3 (SinkingCreek F3) Beginning with Device PD.8059 ----------

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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.8059	PL.52997	ABC	480VWE	7.50Y	125.0	0.00	0.01	243.06	0	4899	2431	90	0.00	0.0	0.006	0.002	0	0	0	580
PL.33733	PD.8059	ABC	397 SPACER	7.50Y	124.9	0.06	0.07	243.06	47	4899	2431	90	0.42	0.0	0.060	0.054	16	8	1	580
PL.33734	PL.33733	ABC	397 SPACER	7.49Y	124.8	0.10	0.17	238.63	46	4808	2383	90	0.72	0.0	0.156	0.096	2	1	1	572
PL.34762	PL.33734	ABC	#3/0 ACSR	7.49Y	124.8	0.01	0.18	7.00	2	149	50	95	0.01	0.0	0.252	0.097	0	0	0	11
PL.34338	PL.34762	ABC	#3/0 ACSR	7.49Y	124.8	0.03	0.20	3.72	1	75	36	90	0.01	0.0	0.733	0.480	0	0	0	6
PL.36072	PL.34338	ABC	#3/0 ACSR	7.49Y	124.8	0.01	0.21	1.61	1	33	16	90	0.00	0.0	1.057	0.325	0	0	0	3
PL.35639	PL.36072	ABC	#3/0 ACSR	7.49Y	124.8	0.00	0.21	1.61	1	33	16	90	0.00	0.0	1.167	0.109	0	0	0	3
PL.36647	PL.35639	ABC	#3/0 ACSR	7.49Y	124.8	0.00	0.21	1.61	1	33	16	90	0.00	0.0	1.218	0.051	0	0	0	3
PL.36648	PL.36647	ABC	#3/0 ACSR	7.49Y	124.8	0.00	0.22	1.61	1	33	16	90	0.00	0.0	1.351	0.133	0	0	0	3
PL.34241	PL.36648	ABC	#3/0 ACSR	7.49Y	124.8	0.00	0.22	0.00	0	0	0	100	0.00	0.0	1.418	0.067	0	0	0	0
PD.5868-A	PL.34241	ABC	Open	7.49Y	124.8	0.00	0.22	0.00	0	0	0	100	0.00	0.0	1.418	0.067	0	0	0	0
PL.35386	PL.36648	A	#4 ACSR	7.49Y	124.8	0.00	0.22	1.18	1	8	4	89	0.00	0.0	1.351	0.001	0	0	0	1
PD.5039	PL.35386	A	40QA	7.49Y	124.8	0.00	0.22	1.18	3	8	4	89	0.00	0.0	1.351	0.001	0	0	0	1
PL.33522	PD.5039	A	#4 ACSR	7.49Y	124.8	0.00	0.22	1.18	1	8	4	89	0.00	0.0	1.422	0.070	0	0	0	1
PL.33523	PL.33522	A	#4 ACSR	7.49Y	124.8	0.00	0.22	0.00	0	0	0	100	0.00	0.0	1.439	0.017	0	0	0	0
PL.35071	PL.33522	A	#4 ACSR	7.49Y	124.8	0.00	0.22	1.18	1	8	4	89	0.00	0.0	1.443	0.021	8	4	1	1
PL.33806	PL.36648	C	6 A (CWC)	7.49Y	124.8	0.00	0.22	1.20	1	8	4	89	0.00	0.0	1.352	0.001	0	0	0	1
PD.5040	PL.33806	C	40QA	7.49Y	124.8	0.00	0.22	1.20	3	8	4	89	0.00	0.0	1.352	0.001	0	0	0	1
PL.33334	PD.5040	C	6 A (CWC)	7.49Y	124.8	0.00	0.22	1.20	1	8	4	89	0.00	0.0	1.404	0.053	8	4	1	1
PL.34757	PL.36648	A	#2 ACSR	7.49Y	124.8	0.00	0.22	2.46	1	17	8	90	0.00	0.0	1.377	0.026	17	8	1	1
PL.36649	PL.36647	A	#2 ACSR	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	1.219	0.001	0	0	0	0
PD.5213	PL.36649	A	40QA	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	1.219	0.001	0	0	0	0
PL.36650	PD.5213	A	#2 ACSR	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	1.257	0.039	0	0	0	0
PL.35640	PL.36072	C	6 A (CWC)	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	1.058	0.001	0	0	0	0
PD.5110	PL.35640	C	40QA	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	1.058	0.001	0	0	0	0
PL.35641	PD.5110	C	6 A (CWC)	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	1.100	0.041	0	0	0	0
PL.36070	PL.34338	C	6 A (CWC)	7.49Y	124.8	0.00	0.20	6.33	5	43	21	90	0.00	0.0	0.736	0.003	0	0	0	3
PD.5038	PL.36070	C	20T	7.49Y	124.8	0.00	0.20	6.33	0	43	21	90	0.00	0.0	0.736	0.003	0	0	0	3
PL.36071	PD.5038	C	6 A (CWC)	7.48Y	124.7	0.09	0.29	6.33	5	43	21	90	0.03	0.1	1.065	0.328	8	4	1	3
PL.36069	PL.36071	C	6 A (CWC)	7.48Y	124.7	0.04	0.33	5.17	4	35	17	90	0.01	0.0	1.217	0.152	2	1	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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.35192	PL.36069	C	6 A (CWC)	7.48Y	124.6	0.02	0.35	4.85	3	33	16	90	0.01	0.0	1.314	0.097	0	0	0	1
PL.35325	PL.35192	C	#4 ACSR	7.48Y	124.6	0.00	0.35	0.00	0	0	0	100	0.00	0.0	1.397	0.083	0	0	0	0
PL.35191	PL.35192	C	#4 ACSR	7.48Y	124.6	0.00	0.35	0.00	0	0	0	100	0.00	0.0	1.352	0.038	0	0	0	0
PD.5022	PL.35191	C	60QA	7.48Y	124.6	0.00	0.35	0.00	0	0	0	100	0.00	0.0	1.352	0.038	0	0	0	0
PL.35193	PL.35192	C	6 A (CWC)	7.48Y	124.6	0.02	0.37	4.85	3	33	16	90	0.00	0.0	1.456	0.141	33	16	1	1
PL.56626	PL.34762	C	6 A (CWC)	7.49Y	124.8	0.00	0.18	1.60	1	11	5	91	0.00	0.0	0.256	0.004	0	0	0	4
PD.8318	PL.56626	C	25T	7.49Y	124.8	0.00	0.18	1.60	0	11	5	91	0.00	0.0	0.256	0.004	0	0	0	4
PL.56627	PD.8318	C	6 A (CWC)	7.49Y	124.8	0.01	0.19	1.60	1	11	5	91	0.00	0.0	0.372	0.116	0	0	0	4
PL.36083	PL.56627	C	6 A (CWC)	7.49Y	124.8	0.01	0.20	1.34	1	9	4	91	0.00	0.0	0.537	0.165	0	0	0	2
PL.36084	PL.36083	C	6 A (CWC)	7.49Y	124.8	0.00	0.20	0.01	0	0	0	100	0.00	0.0	0.620	0.083	0	0	1	1
PL.33670	PL.36083	C	#1/0 ACSR	7.49Y	124.8	0.00	0.20	1.34	1	9	4	91	0.00	0.0	0.668	0.130	9	4	1	1
PL.36085	PL.56627	C	6 A (CWC)	7.49Y	124.8	0.00	0.19	0.25	0	2	1	89	0.00	0.0	0.556	0.184	0	0	0	2
PL.34784	PL.36085	C	6 A (CWC)	7.49Y	124.8	0.00	0.19	0.23	0	2	1	89	0.00	0.0	0.663	0.106	2	1	1	1
PL.36086	PL.36085	C	6 A (CWC)	7.49Y	124.8	0.00	0.19	0.02	0	0	0	100	0.00	0.0	0.715	0.158	0	0	1	1
PL.36165	PL.34762	C	1/0 AL URD	7.49Y	124.8	0.00	0.18	8.49	5	63	9	99	0.00	0.0	0.257	0.004	0	0	0	1
PD.5214	PL.36165	C	40QA	7.49Y	124.8	0.00	0.18	8.49	21	63	9	99	0.00	0.0	0.257	0.004	0	0	0	1
PL.36166	PD.5214	C	1/0 AL URD	7.49Y	124.8	0.00	0.18	8.49	5	63	9	99	0.00	0.0	0.293	0.037	63	9	1	1
PL.35725	PL.33734	ABC	#3/0 ACSR	7.41Y	123.5	1.34	1.50	231.59	77	4657	2323	89	36.13	0.8	0.557	0.401	0	0	0	560
PL.35852	PL.35725	B	6 A (CWC)	7.41Y	123.5	0.00	1.51	0.71	1	5	2	93	0.00	0.0	0.600	0.043	0	0	0	2
PL.35853	PL.35852	B	6 A (CWC)	7.41Y	123.5	0.00	1.51	0.71	1	5	2	93	0.00	0.0	0.600	0.000	0	0	0	2
PD.5209	PL.35853	B	40QA	7.41Y	123.5	0.00	1.51	0.71	2	5	2	93	0.00	0.0	0.600	0.000	0	0	0	2
PL.35854	PD.5209	B	6 A (CWC)	7.41Y	123.5	0.00	1.51	0.71	1	5	2	93	0.00	0.0	0.645	0.045	5	2	2	2
PL.36597	PL.35725	ABC	#3/0 ACSR	7.39Y	123.1	0.37	1.88	231.35	77	4616	2268	90	10.05	0.2	0.669	0.112	0	0	0	558
PL.35724	PL.36597	ABC	#3/0 ACSR	7.36Y	122.6	0.53	2.40	231.35	77	4606	2253	90	14.35	0.3	0.829	0.160	8	4	1	558
PL.36188	PL.35724	ABC	#3/0 ACSR	7.34Y	122.4	0.23	2.63	230.93	77	4583	2228	90	6.16	0.1	0.897	0.069	0	0	0	557
PL.35722	PL.36188	ABC	#3/0 ACSR	7.34Y	122.3	0.07	2.70	230.21	77	4562	2213	90	1.91	0.0	0.919	0.021	12	6	1	556
PL.36185	PL.35722	ABC	#3/0 ACSR	7.33Y	122.1	0.16	2.86	229.58	77	4548	2204	90	4.37	0.1	0.968	0.049	9	4	2	555
PL.35717	PL.36185	ABC	#3/0 ACSR	7.32Y	122.0	0.14	3.01	229.14	76	4535	2193	90	3.88	0.1	1.012	0.044	0	0	0	553
PL.35721	PL.35717	A	#4 ACSR	7.32Y	122.0	0.00	3.01	0.71	1	5	2	93	0.00	0.0	1.013	0.001	0	0	0	1
PD.5208	PL.35721	A	40QA	7.32Y	122.0	0.00	3.01	0.71	2	5	2	93	0.00	0.0	1.013	0.001	0	0	0	1
PL.35726	PD.5208	A	#4 ACSR	7.32Y	122.0	0.00	3.01	0.71	1	5	2	93	0.00	0.0	1.080	0.067	5	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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.35719	PL.35717	C	#4 ACSR	7.32Y	122.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	1.014	0.001	0	0	0	0
PD.5051	PL.35719	C	40QA	7.32Y	122.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	1.014	0.001	0	0	0	0
PL.35720	PD.5051	C	#4 ACSR	7.32Y	122.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	1.060	0.046	0	0	0	0
PL.35509	PL.35717	ABC	#3/0 ACSR	7.31Y	121.9	0.13	3.14	228.90	76	4526	2185	90	3.57	0.1	1.053	0.041	9	5	2	552
PL.35716	PL.35509	ABC	#3/0 ACSR	7.30Y	121.6	0.23	3.37	213.35	71	4216	2031	90	5.80	0.1	1.129	0.076	3	1	1	509
PL.36613	PL.35716	ABC	#3/0 ACSR	7.29Y	121.5	0.14	3.51	213.20	71	4207	2021	90	3.42	0.1	1.173	0.045	0	0	0	508
PL.60630	PL.36613	A	#4 ACSR	7.29Y	121.5	0.00	3.51	2.39	2	16	8	89	0.00	0.0	1.186	0.012	16	8	1	1
PL.36618	PL.36613	ABC	#3/0 ACSR	7.29Y	121.5	0.04	3.55	212.40	71	4188	2009	90	1.00	0.0	1.187	0.013	21	10	2	507
PL.60693	PL.36618	ABC	#3/0 ACSR	7.27Y	121.2	0.25	3.80	211.36	70	4167	1997	90	6.33	0.2	1.271	0.085	9	5	1	505
PL.60695	PL.60693	C	#4 ACSR	7.27Y	121.2	0.00	3.80	2.07	2	14	7	89	0.00	0.0	1.276	0.005	0	0	0	2
PD.8509	PL.60695	C	40QA	7.27Y	121.2	0.00	3.80	2.07	5	14	7	89	0.00	0.0	1.276	0.005	0	0	0	2
PL.57510	PD.8509	C	#4 ACSR	7.27Y	121.2	0.00	3.81	2.07	2	14	7	89	0.00	0.0	1.309	0.033	14	7	2	2
PL.60694	PL.60693	A	#4 ACSR	7.27Y	121.2	0.00	3.80	3.32	3	22	11	89	0.00	0.0	1.276	0.005	0	0	0	5
PD.8371	PL.60694	A	15T	7.27Y	121.2	0.00	3.80	3.32	0	22	11	89	0.00	0.0	1.276	0.005	0	0	0	5
PL.57488	PD.8371	A	#4 ACSR	7.27Y	121.2	0.00	3.81	3.32	3	22	11	89	0.00	0.0	1.288	0.012	0	0	0	5
PL.55830	PL.57488	A	#4 ACSR	7.27Y	121.2	0.00	3.81	3.32	3	22	11	89	0.00	0.0	1.323	0.035	10	5	2	5
PL.55831	PL.55830	A	#4 ACSR	7.27Y	121.2	0.00	3.81	1.86	1	12	6	89	0.00	0.0	1.406	0.083	12	6	3	3
PL.35862	PL.55831	A	#4 ACSR	7.27Y	121.2	0.00	3.81	0.00	0	0	0	100	0.00	0.0	1.447	0.041	0	0	0	0
PL.60691	PL.60693	C	#4 ACSR	7.27Y	121.2	0.03	3.84	16.01	12	105	51	90	0.03	0.0	1.321	0.050	12	6	2	12
PL.35855	PL.60691	C	#4 ACSR	7.27Y	121.1	0.04	3.88	12.53	10	82	40	90	0.02	0.0	1.399	0.078	22	11	2	8
PL.35856	PL.35855	C	#4 ACSR	7.27Y	121.1	0.01	3.88	9.17	7	60	29	90	0.00	0.0	1.416	0.017	5	3	1	6
PL.35857	PL.35856	C	#4 ACSR	7.27Y	121.1	0.01	3.90	8.37	6	55	26	90	0.01	0.0	1.457	0.041	13	6	1	5
PL.35858	PL.35857	C	#4 ACSR	7.27Y	121.1	0.00	3.90	1.85	1	12	6	89	0.00	0.0	1.553	0.096	12	6	1	1
PL.35859	PL.35857	C	#4 ACSR	7.27Y	121.1	0.01	3.90	4.58	4	30	14	91	0.00	0.0	1.500	0.043	20	10	1	3
PL.35860	PL.35859	C	#4 ACSR	7.27Y	121.1	0.00	3.91	1.51	1	10	5	89	0.00	0.0	1.580	0.080	10	5	2	2
PL.33996	PL.60691	C	#1/0 ACSR	7.27Y	121.2	0.00	3.84	1.71	1	11	5	91	0.00	0.0	1.347	0.027	11	5	2	2
PL.60692	PL.60693	ABC	#3/0 ACSR	7.26Y	120.9	0.27	4.08	203.75	68	4011	1916	90	6.53	0.2	1.365	0.094	31	15	4	485
PL.58459	PL.60692	A	6 A (CWC)	7.26Y	120.9	0.00	4.08	15.00	11	98	47	90	0.00	0.0	1.368	0.003	0	0	0	9
PD.8684	PL.58459	A	25T	7.26Y	120.9	0.00	4.08	15.00	0	98	47	90	0.00	0.0	1.368	0.003	0	0	0	9
PL.58460	PD.8684	A	6 A (CWC)	7.25Y	120.9	0.04	4.12	15.00	11	98	47	90	0.03	0.0	1.429	0.060	10	5	1	9
PL.35275	PL.58460	A	6 A (CWC)	7.25Y	120.8	0.03	4.15	10.71	8	70	34	90	0.02	0.0	1.498	0.069	9	4	1	7

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

Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.34806	PL.35275	A	#1/0 ACSR	7.25Y	120.8	0.00	4.15	0.00	0	0	0	100	0.00	0.0	1.522	0.024	0	0	0	0
PL.35276	PL.35275	A	6 A (CWC)	7.25Y	120.8	0.02	4.18	9.30	7	61	29	90	0.01	0.0	1.550	0.052	0	0	1	6
PL.35863	PL.35276	A	6 A (CWC)	7.25Y	120.8	0.01	4.18	4.05	3	26	13	89	0.00	0.0	1.607	0.056	13	6	1	2
PL.35864	PL.35863	A	6 A (CWC)	7.25Y	120.8	0.00	4.19	2.02	1	13	6	91	0.00	0.0	1.658	0.051	13	6	1	1
PL.60701	PL.35276	A	6 A (CWC)	7.25Y	120.8	0.01	4.19	5.25	4	34	17	89	0.00	0.0	1.634	0.084	34	17	3	3
PL.34234	PL.58460	A	#2 ACSR	7.25Y	120.9	0.00	4.12	2.73	2	18	9	89	0.00	0.0	1.473	0.044	18	9	1	1
PL.35861	PL.60692	ABC	#3/0 ACSR	7.24Y	120.7	0.22	4.29	197.16	66	3875	1844	90	5.01	0.1	1.442	0.077	15	7	1	472
PL.36050	PL.35861	ABC	#3/0 ACSR	7.23Y	120.6	0.14	4.44	196.39	65	3855	1829	90	3.36	0.1	1.494	0.052	6	3	1	471
PL.62936	PL.36050	ABC	#3/0 ACSR	7.23Y	120.5	0.08	4.52	196.06	65	3845	1821	90	1.83	0.0	1.523	0.028	0	0	0	468
PL.62937	PL.62936	ABC	#3/0 ACSR	7.22Y	120.3	0.19	4.70	196.06	65	3844	1818	90	4.34	0.1	1.590	0.067	2	1	1	468
PL.60843	PL.62937	C	#4 ACSR	7.22Y	120.3	0.00	4.71	7.08	5	46	22	90	0.00	0.0	1.593	0.003	0	0	0	4
PD.8782	PL.60843	C	25T	7.22Y	120.3	0.00	4.71	7.08	0	46	22	90	0.00	0.0	1.593	0.003	0	0	0	4
PL.59437	PD.8782	C	#4 ACSR	7.22Y	120.3	0.01	4.72	7.08	5	46	22	90	0.00	0.0	1.645	0.052	24	12	2	4
PL.35361	PL.59437	C	#4 ACSR	7.22Y	120.3	0.01	4.73	3.35	3	22	11	89	0.00	0.0	1.713	0.068	0	0	0	2
PL.35362	PL.35361	C	#4 ACSR	7.22Y	120.3	0.00	4.73	3.35	3	22	11	89	0.00	0.0	1.766	0.053	22	11	2	2
PL.60842	PL.62937	ABC	#3/0 ACSR	7.20Y	120.1	0.22	4.93	193.62	65	3792	1789	90	5.06	0.1	1.670	0.080	7	3	2	463
PL.35282	PL.60842	ABC	#3/0 ACSR	7.20Y	120.0	0.09	5.02	94.53	32	1839	890	90	1.00	0.1	1.737	0.067	0	0	0	250
PL.35283	PL.35282	ABC	#3/0 ACSR	7.19Y	119.9	0.11	5.13	93.55	31	1819	880	90	1.24	0.1	1.822	0.085	13	6	1	247
PL.35247	PL.35283	ABC	#3/0 ACSR	7.19Y	119.8	0.09	5.22	91.67	31	1781	860	90	0.96	0.1	1.890	0.068	0	0	0	242
PL.35712	PL.35247	ABC	#3/0 ACSR	7.19Y	119.8	0.00	5.22	91.67	31	1780	859	90	0.01	0.0	1.891	0.001	0	0	0	242
PD.5854	PL.35712	ABC	140L	7.19Y	119.8	0.00	5.22	91.67	65	1780	859	90	0.00	0.0	1.891	0.001	0	0	0	242
PL.52448	PD.5854	ABC	#3/0 ACSR	7.18Y	119.7	0.05	5.27	91.67	31	1780	859	90	0.53	0.0	1.928	0.038	0	0	0	242
PL.52450	PL.52448	C	6 A (CWC)	7.18Y	119.7	0.00	5.27	10.55	8	68	33	90	0.00	0.0	1.930	0.001	0	0	0	5
PD.8023	PL.52450	C	40QA	7.18Y	119.7	0.00	5.27	10.55	26	68	33	90	0.00	0.0	1.930	0.001	0	0	0	5
PL.52447	PD.8023	C	6 A (CWC)	7.18Y	119.7	0.01	5.28	10.55	8	68	33	90	0.00	0.0	1.953	0.023	39	19	3	5
PL.52446	PL.52447	C	6 A (CWC)	7.18Y	119.7	0.00	5.28	4.59	3	30	14	91	0.00	0.0	1.982	0.028	30	14	2	2
PL.35711	PL.52446	C	6 A (CWC)	7.18Y	119.7	0.00	5.28	0.00	0	0	0	100	0.00	0.0	2.045	0.063	0	0	0	0
PL.52451	PL.52448	ABC	#1/0 ACSR	7.18Y	119.7	0.00	5.27	15.25	7	296	143	90	0.00	0.0	1.929	0.001	0	0	0	39
PD.8024	PL.52451	ABC	50QA	7.18Y	119.7	0.00	5.27	15.25	31	296	143	90	0.00	0.0	1.929	0.001	0	0	0	39
PL.52453	PD.8024	ABC	#1/0 ACSR	7.18Y	119.7	0.02	5.28	15.25	7	296	143	90	0.03	0.0	1.981	0.052	11	5	1	39
PL.52454	PL.52453	C	#2 ACSR	7.18Y	119.7	0.00	5.28	1.22	1	8	4	89	0.00	0.0	1.982	0.001	0	0	0	1

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

Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.8026	PL.52454	C	20QA	7.18Y	119.7	0.00	5.28	1.22	6	8	4	89	0.00	0.0	1.982	0.001	0	0	0	1
PL.52455	PD.8026	C	#2 ACSR	7.18Y	119.7	0.00	5.28	1.22	1	8	4	89	0.00	0.0	2.028	0.046	8	4	1	1
PL.52456	PL.52453	ABC	#1/0 ACSR	7.18Y	119.7	0.02	5.30	14.28	6	277	134	90	0.03	0.0	2.040	0.059	0	0	0	37
PL.60840	PL.52456	ABC	#1/0 ACSR	7.18Y	119.7	0.02	5.32	13.71	6	266	129	90	0.03	0.0	2.104	0.064	8	4	1	36
PL.60841	PL.60840	ABC	#1/0 ACSR	7.18Y	119.7	0.02	5.33	13.31	6	258	125	90	0.03	0.0	2.172	0.068	0	0	0	35
PL.52491	PL.60841	C	#2 ACSR	7.18Y	119.7	0.00	5.33	4.26	2	28	13	91	0.00	0.0	2.174	0.002	0	0	0	4
PD.8072	PL.52491	C	25QA	7.18Y	119.7	0.00	5.33	4.26	17	28	13	91	0.00	0.0	2.174	0.002	0	0	0	4
PL.52492	PD.8072	C	#4 ACSR	7.18Y	119.7	0.01	5.34	4.26	3	28	13	91	0.00	0.0	2.217	0.043	0	0	0	4
PL.52489	PL.52492	C	#2 ACSR	7.18Y	119.7	0.00	5.35	2.64	2	17	8	90	0.00	0.0	2.272	0.055	17	8	2	2
PL.52159	PL.52489	C	#2 ACSR	7.18Y	119.7	0.00	5.35	0.00	0	0	0	100	0.00	0.0	2.298	0.026	0	0	0	0
PL.52490	PL.52492	C	#4 ACSR	7.18Y	119.7	0.00	5.34	1.61	1	10	5	89	0.00	0.0	2.261	0.044	10	5	2	2
PL.52458	PL.60841	ABC	#1/0 ACSR	7.18Y	119.6	0.02	5.35	11.89	5	230	112	90	0.02	0.0	2.242	0.070	21	10	2	31
PL.52459	PL.52458	ABC	#1/0 ACSR	7.18Y	119.6	0.01	5.36	10.80	5	209	101	90	0.01	0.0	2.272	0.030	0	0	0	29
PL.52460	PL.52459	C	#1/0 ACSR	7.18Y	119.6	0.00	5.36	1.10	0	7	3	92	0.00	0.0	2.291	0.019	7	3	2	2
PL.52465	PL.52459	ABC	#1/0 ACSR	7.18Y	119.6	0.01	5.36	10.43	5	202	98	90	0.01	0.0	2.307	0.035	8	4	1	27
PL.52466	PL.52465	A	#1/0 ACSR	7.18Y	119.6	0.00	5.36	2.66	1	17	8	90	0.00	0.0	2.309	0.003	0	0	0	2
PD.8027	PL.52466	A	15T	7.18Y	119.6	0.00	5.36	2.66	0	17	8	90	0.00	0.0	2.309	0.003	0	0	0	2
PL.57547	PD.8027	A	#1/0 ACSR	7.18Y	119.6	0.01	5.37	2.66	1	17	8	90	0.00	0.0	2.425	0.116	9	4	1	2
PL.57548	PL.57547	A	#1/0 ACSR	7.18Y	119.6	0.00	5.37	1.30	1	8	4	89	0.00	0.0	2.462	0.037	8	4	1	1
PL.52467	PL.52465	A	#2 ACSR	7.18Y	119.6	0.00	5.36	8.65	5	56	27	90	0.00	0.0	2.309	0.002	0	0	0	4
PD.8028	PL.52467	A	25QA	7.18Y	119.6	0.00	5.36	8.65	35	56	27	90	0.00	0.0	2.309	0.002	0	0	0	4
PL.52461	PD.8028	A	#2 ACSR	7.18Y	119.6	0.01	5.38	8.65	5	56	27	90	0.01	0.0	2.364	0.055	16	8	1	4
PL.52462	PL.52461	A	#2 ACSR	7.18Y	119.6	0.00	5.38	6.18	4	40	19	90	0.00	0.0	2.400	0.036	27	13	2	3
PL.52463	PL.52462	A	#2 ACSR	7.18Y	119.6	0.00	5.38	1.99	1	13	6	91	0.00	0.0	2.418	0.018	0	0	0	1
PL.52464	PL.52463	A	#2 ACSR	7.18Y	119.6	0.00	5.38	1.99	1	13	6	91	0.00	0.0	2.455	0.036	13	6	1	1
PL.52468	PL.52465	ABC	#1/0 ACSR	7.18Y	119.6	0.01	5.37	6.24	3	121	59	90	0.00	0.0	2.356	0.050	12	6	2	20
PL.52150	PL.52468	ABC	#1/0 ACSR	7.18Y	119.6	0.01	5.37	5.63	2	109	53	90	0.00	0.0	2.407	0.051	0	0	0	18
PL.52153	PL.52150	ABC	#1/0 ACSR	7.18Y	119.6	0.01	5.38	5.63	2	109	53	90	0.00	0.0	2.461	0.053	0	0	0	18
PL.52156	PL.52153	A	6 A (CWC)	7.18Y	119.6	0.00	5.38	14.78	11	95	46	90	0.00	0.0	2.464	0.003	0	0	0	16
PD.8030	PL.52156	A	50QA	7.18Y	119.6	0.00	5.38	14.78	30	95	46	90	0.00	0.0	2.464	0.003	0	0	0	16
PL.52157	PD.8030	A	6 A (CWC)	7.17Y	119.6	0.06	5.44	14.78	11	95	46	90	0.04	0.0	2.544	0.080	0	0	0	16

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

Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.52152	PL.52157	A	6 A (CWC)	7.16Y	119.4	0.16	5.60	13.50	10	87	42	90	0.11	0.1	2.795	0.251	0	0	0	15
PL.35451	PL.52152	A	6 A (CWC)	7.16Y	119.4	0.03	5.63	10.81	8	70	34	90	0.02	0.0	2.848	0.053	0	0	1	9
PL.35452	PL.35451	A	6 A (CWC)	7.16Y	119.3	0.04	5.66	10.80	8	70	34	90	0.02	0.0	2.920	0.071	0	0	0	8
PL.34042	PL.35452	A	#4 ACSR	7.16Y	119.3	0.00	5.67	1.60	1	10	5	89	0.00	0.0	3.033	0.113	10	5	1	1
PL.35454	PL.35452	A	6 A (CWC)	7.16Y	119.3	0.03	5.69	8.39	6	54	26	90	0.01	0.0	2.993	0.073	0	0	0	6
PL.35866	PL.35454	A	6 A (CWC)	7.16Y	119.3	0.03	5.73	6.81	5	44	21	90	0.01	0.0	3.097	0.104	0	0	0	5
PL.34974	PL.35866	A	6 A (CWC)	7.15Y	119.2	0.08	5.80	6.81	5	44	21	90	0.02	0.1	3.368	0.271	12	6	1	5
PL.34050	PL.34974	A	6 A (CWC)	7.15Y	119.2	0.04	5.84	5.01	4	32	16	89	0.01	0.0	3.527	0.159	3	2	1	4
PL.35870	PL.34050	A	#4 ACSR	7.15Y	119.1	0.02	5.86	4.48	3	29	14	90	0.00	0.0	3.647	0.120	11	5	1	3
PL.35871	PL.35870	A	#4 ACSR	7.15Y	119.1	0.00	5.86	2.84	2	18	9	89	0.00	0.0	3.723	0.076	18	9	2	2
PL.51869	PL.34050	A	6 A (CWC)	7.15Y	119.2	0.00	5.84	0.00	0	0	0	100	0.00	0.0	3.570	0.044	0	0	0	0
PL.34807	PL.35454	A	#4 ACSR	7.16Y	119.3	0.00	5.70	1.58	1	10	5	89	0.00	0.0	3.069	0.077	10	5	1	1
PL.35869	PL.34807	A	#4 ACSR	7.16Y	119.3	0.00	5.70	0.00	0	0	0	100	0.00	0.0	3.161	0.092	0	0	0	0
PL.64539	PL.35452	A	#1/0 ACSR	7.16Y	119.3	0.00	5.66	0.80	0	5	3	86	0.00	0.0	2.935	0.015	5	3	1	1
PL.35867	PL.52152	A	6 A (CWC)	7.16Y	119.4	0.01	5.61	2.69	2	17	8	90	0.00	0.0	2.859	0.064	0	0	0	6
PL.35453	PL.35867	A	6 A (CWC)	7.16Y	119.4	0.00	5.61	0.00	0	0	0	100	0.00	0.0	3.008	0.149	0	0	0	0
PL.35699	PL.35453	A	6 A (CWC)	7.16Y	119.4	0.00	5.61	0.00	0	0	0	100	0.00	0.0	3.172	0.165	0	0	0	0
PL.51846	PL.35699	A	6 A (CWC)	7.16Y	119.4	0.00	5.61	0.00	0	0	0	100	0.00	0.0	3.284	0.112	0	0	0	0
PL.51847	PL.51846	A	#1/0 ACSR	7.16Y	119.4	0.00	5.61	0.00	0	0	0	100	0.00	0.0	3.324	0.041	0	0	0	0
PL.35868	PL.35867	A	6 A (CWC)	7.16Y	119.4	0.01	5.61	2.69	2	17	8	90	0.00	0.0	2.908	0.049	0	0	1	6
PL.35450	PL.35868	A	6 A (CWC)	7.16Y	119.4	0.00	5.61	0.78	1	5	2	93	0.00	0.0	2.952	0.044	5	2	1	1
PL.34888	PL.35868	A	6 A (CWC)	7.16Y	119.4	0.00	5.62	1.89	1	12	6	89	0.00	0.0	2.985	0.077	12	6	4	4
PL.52158	PL.52157	A	#2 ACSR	7.17Y	119.6	0.00	5.44	1.28	1	8	4	89	0.00	0.0	2.660	0.116	8	4	1	1
PL.52155	PL.52153	C	#2 ACSR	7.18Y	119.6	0.00	5.38	1.93	1	12	6	89	0.00	0.0	2.465	0.004	0	0	0	1
PD.8029	PL.52155	C	25QA	7.18Y	119.6	0.00	5.38	1.93	8	12	6	89	0.00	0.0	2.465	0.004	0	0	0	1
PL.52151	PD.8029	C	#2 ACSR	7.18Y	119.6	0.00	5.38	1.93	1	12	6	89	0.00	0.0	2.503	0.038	12	6	1	1
PL.52154	PL.52153	A	#4 ACSR	7.18Y	119.6	0.00	5.38	0.18	0	1	1	71	0.00	0.0	2.481	0.020	1	1	1	1
PL.52457	PL.52456	A	#4 ACSR	7.18Y	119.7	0.00	5.30	1.72	1	11	5	91	0.00	0.0	2.042	0.002	0	0	0	1
PD.8025	PL.52457	A	20QA	7.18Y	119.7	0.00	5.30	1.72	9	11	5	91	0.00	0.0	2.042	0.002	0	0	0	1
PL.72531	PD.8025	A	#1/0 ACSR	7.18Y	119.7	0.00	5.30	1.72	1	11	5	91	0.00	0.0	2.104	0.062	0	0	0	1
PL.72532	PL.72531	A	#1/0 ACSR	7.18Y	119.7	0.00	5.30	1.72	1	11	5	91	0.00	0.0	2.104	0.000	11	5	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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.52449	PL.52448	ABC	#3/0 ACSR	7.18Y	119.7	0.05	5.32	72.90	24	1416	682	90	0.47	0.0	1.981	0.053	0	0	0	198
PL.35865	PL.52449	ABC	#3/0 ACSR	7.17Y	119.4	0.24	5.56	72.55	24	1408	678	90	2.06	0.1	2.214	0.233	0	0	0	197
PL.35584	PL.35865	ABC	#3/0 ACSR	7.16Y	119.4	0.04	5.61	57.91	19	1123	537	90	0.28	0.0	2.264	0.050	0	0	0	162
PL.36591	PL.35584	B	#4 ACSR	7.16Y	119.4	0.00	5.61	1.86	1	12	6	89	0.00	0.0	2.265	0.001	0	0	0	1
PD.5130	PL.36591	B	40QA	7.16Y	119.4	0.00	5.61	1.86	5	12	6	89	0.00	0.0	2.265	0.001	0	0	0	1
PL.36592	PD.5130	B	#4 ACSR	7.16Y	119.4	0.01	5.62	1.86	1	12	6	89	0.00	0.0	2.406	0.141	0	0	0	1
PL.35585	PL.36592	B	#4 ACSR	7.16Y	119.4	0.00	5.62	1.86	1	12	6	89	0.00	0.0	2.455	0.049	12	6	1	1
PL.35586	PL.35585	B	#4 ACSR	7.16Y	119.4	0.00	5.62	0.00	0	0	0	100	0.00	0.0	2.478	0.023	0	0	0	0
PL.60609	PL.35584	ABC	#3/0 ACSR	7.16Y	119.4	0.03	5.64	57.29	19	1111	531	90	0.20	0.0	2.300	0.036	6	3	1	161
PL.60608	PL.60609	ABC	#3/0 ACSR	7.16Y	119.3	0.06	5.70	50.79	17	985	470	90	0.37	0.0	2.386	0.086	0	0	0	139
PL.34746	PL.60608	ABC	#3/0 ACSR	7.16Y	119.3	0.04	5.74	49.25	16	955	455	90	0.25	0.0	2.448	0.061	20	10	3	135
PL.35522	PL.34746	ABC	#3/0 ACSR	7.15Y	119.2	0.04	5.78	48.22	16	935	445	90	0.23	0.0	2.507	0.059	8	4	1	132
PL.33963	PL.35522	A	#4 ACSR	7.15Y	119.2	0.00	5.78	0.88	1	6	3	89	0.00	0.0	2.576	0.070	6	3	1	1
PL.35281	PL.35522	ABC	#3/0 ACSR	7.15Y	119.2	0.04	5.82	46.95	16	910	433	90	0.21	0.0	2.562	0.055	0	0	0	129
PL.35296	PL.35281	ABC	#3/0 ACSR	7.15Y	119.2	0.03	5.84	45.93	15	890	423	90	0.14	0.0	2.602	0.040	9	4	1	126
PL.36614	PL.35296	ABC	#3/0 ACSR	7.15Y	119.1	0.03	5.88	45.46	15	881	418	90	0.18	0.0	2.653	0.052	0	0	0	125
PL.36615	PL.36614	ABC	#3/0 ACSR	7.14Y	119.0	0.10	5.98	45.46	15	881	418	90	0.54	0.1	2.809	0.156	0	0	1	125
PL.36709	PL.36615	ABC	#3/0 ACSR	7.14Y	119.0	0.02	6.00	45.45	15	880	417	90	0.13	0.0	2.847	0.038	0	0	0	124
PL.34251	PL.36709	ABC	1/0 AL URD	7.14Y	119.0	0.00	6.00	1.60	1	34	5	99	0.00	0.0	2.886	0.039	34	5	1	1
PL.35007	PL.36709	A	#4 ACSR	7.14Y	119.0	0.00	6.00	15.94	12	102	50	90	0.00	0.0	2.848	0.001	0	0	0	15
PD.5727	PL.35007	A	40QA	7.14Y	119.0	0.00	6.00	15.94	40	102	50	90	0.00	0.0	2.848	0.001	0	0	0	15
PL.35972	PD.5727	A	#4 ACSR	7.14Y	119.0	0.04	6.04	15.94	12	102	50	90	0.03	0.0	2.903	0.055	12	6	1	15
PL.36430	PL.35972	A	#4 ACSR	7.13Y	118.9	0.10	6.14	14.08	11	90	44	90	0.07	0.1	3.065	0.162	11	6	1	14
PL.36431	PL.36430	A	#4 ACSR	7.13Y	118.8	0.03	6.17	12.29	9	79	38	90	0.02	0.0	3.117	0.052	0	0	0	13
PL.36435	PL.36431	A	#2 ACSR	7.13Y	118.8	0.00	6.17	2.82	2	18	9	89	0.00	0.0	3.149	0.032	10	5	1	3
PL.36590	PL.36435	A	#2 ACSR	7.13Y	118.8	0.00	6.17	1.30	1	8	4	89	0.00	0.0	3.192	0.043	8	4	2	2
PL.60625	PL.36431	A	#4 ACSR	7.13Y	118.8	0.03	6.20	9.47	7	61	29	90	0.01	0.0	3.186	0.069	7	3	4	10
PL.60626	PL.60625	A	#4 ACSR	7.13Y	118.8	0.00	6.20	8.39	6	54	26	90	0.00	0.0	3.200	0.014	30	15	3	6
PL.60627	PL.60626	A	#4 ACSR	7.13Y	118.8	0.01	6.21	3.70	3	24	11	91	0.00	0.0	3.282	0.081	8	4	1	3
PL.36434	PL.60627	A	#4 ACSR	7.13Y	118.8	0.00	6.21	1.63	1	10	5	89	0.00	0.0	3.322	0.041	10	5	1	1
PL.64633	PL.36434	A	#4 ACSR	7.13Y	118.8	0.00	6.21	0.00	0	0	0	100	0.00	0.0	3.335	0.012	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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.9551-A	PL.64633	A	Open	7.13Y	118.8	0.00	6.21	0.00	0	0	0	100	0.00	0.0	3.335	0.012	0	0	0	0
PL.36432	PL.60627	A	#4 ACSR	7.13Y	118.8	0.00	6.21	0.83	1	5	3	86	0.00	0.0	3.316	0.034	0	0	0	1
PL.36433	PL.36432	A	#4 ACSR	7.13Y	118.8	0.00	6.21	0.83	1	5	3	86	0.00	0.0	3.344	0.029	5	3	1	1
PL.34541	PL.36709	ABC	#3/0 ACSR	7.14Y	119.0	0.04	6.04	38.61	13	743	363	90	0.19	0.0	2.921	0.074	0	0	0	108
PL.37173	PL.34541	ABC	#1/0 ACSR	7.14Y	119.0	0.00	6.04	38.61	17	743	362	90	0.00	0.0	2.922	0.000	0	0	0	108
PL.37174	PL.37173	ABC	#1/0 ACSR	7.13Y	118.8	0.16	6.20	38.61	17	743	362	90	0.83	0.1	3.132	0.211	8	4	1	108
PL.36265	PL.37174	ABC	#1/0 ACSR	7.13Y	118.8	0.04	6.24	38.20	17	734	358	90	0.22	0.0	3.189	0.057	1	1	1	107
PL.35273	PL.36265	ABC	#1/0 ACSR	7.12Y	118.7	0.05	6.29	35.04	15	673	328	90	0.22	0.0	3.259	0.070	31	15	3	99
PL.34594	PL.35273	ABC	#1/0 ACSR	7.12Y	118.7	0.05	6.34	33.45	15	643	313	90	0.24	0.0	3.341	0.082	8	4	1	96
PL.36261	PL.34594	B	#4 ACSR	7.12Y	118.7	0.00	6.34	1.11	1	7	3	92	0.00	0.0	3.355	0.014	0	0	0	1
PL.35016	PL.36261	B	#4 ACSR	7.12Y	118.7	0.00	6.34	0.00	0	0	0	100	0.00	0.0	3.367	0.012	0	0	0	0
PL.36262	PL.36261	B	#4 ACSR	7.12Y	118.7	0.00	6.35	1.11	1	7	3	92	0.00	0.0	3.440	0.085	7	3	1	1
PL.36263	PL.34594	B	#4 ACSR	7.12Y	118.6	0.01	6.35	6.07	5	39	19	90	0.00	0.0	3.401	0.060	26	13	4	5
PL.36264	PL.36263	B	#4 ACSR	7.12Y	118.6	0.00	6.36	1.95	1	12	6	89	0.00	0.0	3.447	0.046	12	6	1	1
PL.36259	PL.34594	ABC	#1/0 ACSR	7.12Y	118.6	0.04	6.39	30.66	13	589	287	90	0.18	0.0	3.417	0.076	23	11	3	89
PL.36260	PL.36259	ABC	#1/0 ACSR	7.12Y	118.6	0.02	6.41	28.32	12	544	265	90	0.08	0.0	3.457	0.040	19	9	4	83
PL.36254	PL.36260	ABC	#1/0 ACSR	7.11Y	118.5	0.04	6.45	23.67	10	454	222	90	0.14	0.0	3.548	0.091	0	0	0	67
PL.63100	PL.36254	B	#1/0 ACSR	7.11Y	118.5	0.00	6.45	1.36	1	9	4	91	0.00	0.0	3.552	0.003	0	0	0	1
PD.9462	PL.63100	B	20T	7.11Y	118.5	0.00	6.45	1.36	0	9	4	91	0.00	0.0	3.552	0.003	0	0	0	1
PL.63101	PD.9462	B	#1/0 ACSR	7.11Y	118.5	0.00	6.45	1.36	1	9	4	91	0.00	0.0	3.577	0.025	9	4	1	1
PL.36255	PL.36254	ABC	#1/0 ACSR	7.11Y	118.5	0.05	6.50	23.22	10	445	217	90	0.15	0.0	3.654	0.106	4	2	2	66
PL.36576	PL.36255	ABC	#1/0 ACSR	7.11Y	118.5	0.01	6.51	22.09	10	423	207	90	0.02	0.0	3.671	0.017	0	0	0	63
PL.65748	PL.36576	B	#4 ACSR	7.11Y	118.5	0.00	6.51	4.01	3	26	12	91	0.00	0.0	3.674	0.003	0	0	0	6
PD.9587	PL.65748	B	T	7.11Y	118.5	0.00	6.51	4.01	0	26	12	91	0.00	0.0	3.674	0.003	0	0	0	6
PL.65749	PD.9587	B	#4 ACSR	7.11Y	118.5	0.01	6.51	4.01	3	26	12	91	0.00	0.0	3.707	0.033	0	0	0	6
PL.36577	PL.65749	B	#4 ACSR	7.11Y	118.5	0.01	6.52	2.36	2	15	7	91	0.00	0.0	3.777	0.071	0	0	0	3
PL.36580	PL.36577	B	#4 ACSR	7.11Y	118.5	0.00	6.52	2.36	2	15	7	91	0.00	0.0	3.815	0.037	6	3	1	3
PL.36253	PL.36580	B	#4 ACSR	7.11Y	118.5	0.00	6.53	1.48	1	9	5	87	0.00	0.0	3.887	0.072	0	0	0	2
PL.36961	PL.36253	B	#4 ACSR	7.11Y	118.5	0.01	6.54	1.48	1	9	5	87	0.00	0.0	4.187	0.300	9	4	1	2
PL.37160	PL.36961	B	#4 ACSR	7.11Y	118.5	0.00	6.54	0.14	0	1	0	100	0.00	0.0	4.252	0.065	1	0	1	1
PL.36579	PL.65749	B	#4 ACSR	7.11Y	118.5	0.00	6.52	1.65	1	11	5	91	0.00	0.0	3.752	0.045	11	5	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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.36575	PL.36576	ABC	#1/0 ACSR	7.11Y	118.4	0.05	6.55	20.75	9	398	194	90	0.14	0.0	3.790	0.120	6	3	1	57
REG65	PL.36575	B	76.2 KVA	7.53Y	125.5	-7.06	-0.50	61.33	61	392	191	90	percent Boost= 0.00			Tap= 0.0				56
PL.63790	REG65	B	6 A (CWC)	7.52Y	125.3	0.24	-0.27	57.88	41	392	191	90	0.70	0.2	3.878	0.088	6	3	1	56
PL.36574	PL.63790	B	#4 ACSR	7.52Y	125.3	0.00	-0.26	1.49	1	10	5	89	0.00	0.0	3.946	0.069	10	5	2	2
PL.36573	PL.63790	B	#4 ACSR	7.52Y	125.3	0.00	-0.27	1.31	1	9	4	91	0.00	0.0	3.910	0.032	9	4	2	2
PL.63791	PL.63790	B	6 A (CWC)	7.44Y	124.0	1.22	0.95	54.15	39	366	178	90	3.37	0.9	4.355	0.477	3	1	1	51
PL.57489	PL.63791	B	6 A (CWC)	7.44Y	124.0	0.00	0.95	1.90	1	13	6	91	0.00	0.0	4.358	0.003	0	0	0	2
PD.8372	PL.57489	B	25T	7.44Y	124.0	0.00	0.95	1.90	0	13	6	91	0.00	0.0	4.358	0.003	0	0	0	2
PL.57490	PD.8372	B	6 A (CWC)	7.44Y	124.0	0.00	0.96	1.90	1	13	6	91	0.00	0.0	4.399	0.041	0	0	0	2
PL.35803	PL.57490	B	6 A (CWC)	7.44Y	124.0	0.00	0.96	1.90	1	13	6	91	0.00	0.0	4.440	0.041	0	0	0	2
PL.36625	PL.35803	B	6 A (CWC)	7.44Y	124.0	0.01	0.97	1.90	1	13	6	91	0.00	0.0	4.629	0.190	10	5	1	2
PL.36626	PL.36625	B	6 A (CWC)	7.44Y	124.0	0.00	0.97	0.43	0	3	1	95	0.00	0.0	4.689	0.060	0	0	0	1
PL.36627	PL.36626	B	6 A (CWC)	7.44Y	124.0	0.00	0.97	0.00	0	0	0	100	0.00	0.0	4.715	0.026	0	0	0	0
PL.33964	PL.36626	B	#4 ACSR	7.44Y	124.0	0.00	0.98	0.43	0	3	1	95	0.00	0.0	4.810	0.121	0	0	0	1
PL.63108	PL.33964	B	#1/0 ACSR	7.44Y	124.0	0.00	0.98	0.43	0	3	1	95	0.00	0.0	4.832	0.022	0	0	0	1
PL.63109	PL.63108	B	#1/0 ACSR	7.44Y	124.0	0.00	0.98	0.43	0	3	1	95	0.00	0.0	4.882	0.050	0	0	0	1
PL.63110	PL.63109	B	#1/0 ACSR	7.44Y	124.0	0.00	0.98	0.43	0	3	1	95	0.00	0.0	4.931	0.048	3	1	1	1
PL.35266	PL.36626	B	#4 ACSR	7.44Y	124.0	0.00	0.97	0.00	0	0	0	100	0.00	0.0	4.854	0.165	0	0	0	0
PL.33965	PL.57490	B	6 A (CWC)	7.44Y	124.0	0.00	0.96	0.00	0	0	0	100	0.00	0.0	4.469	0.071	0	0	0	0
PL.64807	PL.63791	B	#1/0 ACSR	7.44Y	124.0	0.09	1.04	51.82	23	347	169	90	0.19	0.1	4.421	0.067	0	0	0	48
PL.64809	PL.64807	B	#1/0 ACSR	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	4.423	0.002	0	0	0	0
PD.9561	PL.64809	B	20T	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	4.423	0.002	0	0	0	0
PL.64810	PD.9561	B	#1/0 ACSR	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	4.483	0.060	0	0	0	0
PL.64811	PL.64810	B	#1/0 ACSR	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	4.544	0.061	0	0	0	0
PL.64812	PL.64811	B	#1/0 ACSR	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	4.605	0.061	0	0	0	0
PL.64808	PL.64807	B	#1/0 ACSR	7.43Y	123.9	0.08	1.12	51.82	23	347	169	90	0.18	0.1	4.483	0.062	0	0	0	48
PL.34439	PL.64808	B	6 A (CWC)	7.43Y	123.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	4.540	0.057	0	0	0	0
PL.35903	PL.64808	B	6 A (CWC)	7.41Y	123.5	0.37	1.49	50.67	36	339	165	90	0.95	0.3	4.636	0.153	0	0	0	47
PL.34044	PL.35903	B	6 A (CWC)	7.41Y	123.5	0.01	1.50	2.96	2	20	10	89	0.00	0.0	4.741	0.106	8	4	1	2
PL.60702	PL.34044	B	#1/0 ACSR	7.41Y	123.5	0.00	1.51	1.73	1	12	6	89	0.00	0.0	4.795	0.054	12	6	1	1
PL.35902	PL.35903	B	6 A (CWC)	7.40Y	123.3	0.23	1.72	47.71	34	318	154	90	0.55	0.2	4.737	0.101	5	2	1	45

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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.33368	PL.35902	B	#4 ACSR	7.40Y	123.3	0.00	1.72	0.95	1	6	3	89	0.00	0.0	4.829	0.092	6	3	1	1
PL.35901	PL.35902	B	6 A (CWC)	7.38Y	123.0	0.31	2.03	46.03	33	306	149	90	0.73	0.2	4.881	0.144	4	2	1	43
PL.35900	PL.35901	B	6 A (CWC)	7.37Y	122.8	0.21	2.24	45.36	32	301	146	90	0.48	0.2	4.977	0.096	0	0	0	42
PL.35787	PL.35900	B	#1/0 ACSR	7.36Y	122.7	0.03	2.27	45.36	20	301	146	90	0.06	0.0	5.002	0.025	0	0	0	42
PL.36161	PL.35787	B	6 A (CWC)	7.36Y	122.7	0.00	2.27	22.76	16	151	73	90	0.00	0.0	5.004	0.002	0	0	0	20
PD.5859	PL.36161	B	35L	7.36Y	122.7	0.00	2.27	22.76	65	151	73	90	0.00	0.0	5.004	0.002	0	0	0	20
PL.36162	PD.5859	B	6 A (CWC)	7.36Y	122.6	0.10	2.37	22.76	16	151	73	90	0.12	0.1	5.097	0.093	0	0	0	20
PL.35896	PL.36162	B	6 A (CWC)	7.36Y	122.6	0.04	2.41	22.76	16	151	73	90	0.04	0.0	5.131	0.034	0	0	1	20
PL.35897	PL.35896	B	6 A (CWC)	7.35Y	122.5	0.14	2.54	22.76	16	151	73	90	0.16	0.1	5.257	0.126	0	0	0	19
PL.34723	PL.35897	B	6 A (CWC)	7.35Y	122.4	0.02	2.57	14.42	10	95	46	90	0.02	0.0	5.293	0.036	0	0	0	12
PL.33596	PL.34723	B	#1/0 ACSR	7.35Y	122.4	0.00	2.57	0.00	0	0	0	100	0.00	0.0	5.352	0.059	0	0	0	0
PL.63789	PL.34723	B	6 A (CWC)	7.34Y	122.4	0.05	2.62	14.42	10	95	46	90	0.03	0.0	5.367	0.074	10	5	1	12
PL.63787	PL.63789	B	6 A (CWC)	7.34Y	122.3	0.05	2.67	12.94	9	86	41	90	0.03	0.0	5.462	0.095	21	10	3	11
PL.63788	PL.63787	B	6 A (CWC)	7.34Y	122.3	0.03	2.70	9.78	7	65	31	90	0.01	0.0	5.526	0.064	0	0	0	8
PL.33752	PL.63788	B	6 A (CWC)	7.34Y	122.3	0.00	2.70	1.88	1	12	6	89	0.00	0.0	5.605	0.079	12	6	1	1
PL.36080	PL.63788	B	6 A (CWC)	7.34Y	122.3	0.02	2.72	7.90	6	52	25	90	0.01	0.0	5.601	0.075	17	8	2	7
PL.35460	PL.36080	B	6 A (CWC)	7.34Y	122.3	0.01	2.74	5.35	4	35	17	90	0.00	0.0	5.669	0.068	10	5	1	5
PL.35461	PL.35460	B	6 A (CWC)	7.33Y	122.2	0.02	2.75	3.82	3	25	12	90	0.00	0.0	5.756	0.087	0	0	0	4
PL.34841	PL.35461	B	6 A (CWC)	7.33Y	122.2	0.00	2.75	0.00	0	0	0	100	0.00	0.0	5.829	0.072	0	0	0	0
PL.36628	PL.35461	B	6 A (CWC)	7.33Y	122.2	0.01	2.76	3.82	3	25	12	90	0.00	0.0	5.849	0.093	9	5	1	4
PL.33916	PL.36628	B	6 A (CWC)	7.33Y	122.2	0.01	2.77	2.39	2	16	8	89	0.00	0.0	5.937	0.088	0	0	0	3
PL.57278	PL.33916	B	6 A (CWC)	7.33Y	122.2	0.03	2.81	2.39	2	16	8	89	0.00	0.0	6.283	0.346	7	3	1	3
PL.57277	PL.57278	B	6 A (CWC)	7.33Y	122.2	0.00	2.81	1.36	1	9	4	91	0.00	0.0	6.318	0.035	0	0	0	2
PL.57615	PL.57277	B	#4 ACSR	7.33Y	122.2	0.00	2.81	0.96	1	6	3	89	0.00	0.0	6.353	0.035	0	0	0	1
PL.57616	PL.57615	B	#4 ACSR	7.33Y	122.2	0.00	2.81	0.96	1	6	3	89	0.00	0.0	6.393	0.041	6	3	1	1
PL.34860	PL.57277	B	6 A (CWC)	7.33Y	122.2	0.00	2.81	0.41	0	3	1	95	0.00	0.0	6.446	0.128	3	1	1	1
PL.64739	PL.35897	B	6 A (CWC)	7.35Y	122.4	0.04	2.58	8.34	6	55	27	90	0.02	0.0	5.347	0.090	0	0	0	7
PL.64740	PL.64739	B	6 A (CWC)	7.34Y	122.4	0.02	2.60	8.34	6	55	27	90	0.01	0.0	5.416	0.069	10	5	1	7
PL.34977	PL.64740	B	#2 ACSR	7.34Y	122.4	0.00	2.61	1.57	1	10	5	89	0.00	0.0	5.509	0.093	10	5	1	1
PL.36569	PL.64740	B	6 A (CWC)	7.34Y	122.4	0.02	2.62	5.26	4	35	17	90	0.00	0.0	5.485	0.069	0	0	0	5
PL.34678	PL.36569	B	#2 ACSR	7.34Y	122.4	0.00	2.63	2.47	1	16	8	89	0.00	0.0	5.557	0.072	8	4	1	2

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

Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.35895	PL.34678	B	#2 ACSR	7.34Y	122.4	0.00	2.63	1.26	1	8	4	89	0.00	0.0	5.637	0.080	8	4	1	1
PL.36570	PL.36569	B	6 A (CWC)	7.34Y	122.4	0.01	2.63	2.79	2	18	9	89	0.00	0.0	5.545	0.060	0	0	0	3
PL.36571	PL.36570	B	6 A (CWC)	7.34Y	122.4	0.00	2.63	2.79	2	18	9	89	0.00	0.0	5.587	0.042	13	6	2	3
PL.36572	PL.36571	B	6 A (CWC)	7.34Y	122.4	0.00	2.64	0.77	1	5	2	93	0.00	0.0	5.702	0.115	0	0	0	1
PL.34677	PL.36572	B	6 A (CWC)	7.34Y	122.4	0.00	2.64	0.00	0	0	0	100	0.00	0.0	5.763	0.061	0	0	0	0
PL.34517	PL.36572	B	#2 ACSR	7.34Y	122.4	0.00	2.64	0.77	0	5	2	93	0.00	0.0	5.747	0.045	5	2	1	1
PL.36160	PL.35787	B	6 A (CWC)	7.36Y	122.7	0.04	2.31	22.60	16	150	73	90	0.05	0.0	5.041	0.038	0	0	0	22
PL.36163	PL.36160	B	6 A (CWC)	7.36Y	122.7	0.03	2.34	22.60	16	150	73	90	0.04	0.0	5.072	0.032	5	3	1	22
PL.36164	PL.36163	B	6 A (CWC)	7.35Y	122.4	0.23	2.58	21.79	16	144	70	90	0.26	0.2	5.297	0.225	0	0	0	21
PL.34951	PL.36164	B	6 A (CWC)	7.35Y	122.4	0.00	2.58	1.56	1	10	5	89	0.00	0.0	5.390	0.093	10	5	1	1
PL.35899	PL.36164	B	6 A (CWC)	7.34Y	122.4	0.06	2.63	13.32	10	88	43	90	0.04	0.0	5.387	0.090	0	0	0	13
PL.60837	PL.35899	B	6 A (CWC)	7.33Y	122.2	0.14	2.77	12.23	9	81	39	90	0.09	0.1	5.629	0.242	0	0	0	12
PL.60838	PL.60837	B	6 A (CWC)	7.33Y	122.2	0.02	2.79	12.23	9	81	39	90	0.01	0.0	5.667	0.039	7	4	1	12
PL.60839	PL.60838	B	6 A (CWC)	7.33Y	122.2	0.03	2.82	11.11	8	73	36	90	0.02	0.0	5.719	0.052	0	0	0	11
PL.63804	PL.60839	B	6 A (CWC)	7.33Y	122.1	0.05	2.87	8.50	6	56	27	90	0.02	0.0	5.847	0.128	0	0	0	9
PL.63805	PL.63804	B	6 A (CWC)	7.33Y	122.1	0.00	2.87	8.50	6	56	27	90	0.00	0.0	5.847	0.000	8	4	1	9
PL.60640	PL.63805	B	6 A (CWC)	7.33Y	122.1	0.02	2.90	2.64	2	17	8	90	0.00	0.0	6.047	0.200	3	2	1	3
PL.36777	PL.60640	B	6 A (CWC)	7.33Y	122.1	0.01	2.90	2.14	2	14	7	89	0.00	0.0	6.217	0.170	14	7	2	2
PL.60642	PL.63805	B	6 A (CWC)	7.33Y	122.1	0.00	2.88	4.64	3	31	15	90	0.00	0.0	5.862	0.014	2	1	1	5
PL.60643	PL.60642	B	6 A (CWC)	7.33Y	122.1	0.01	2.89	4.35	3	29	14	90	0.00	0.0	5.918	0.056	9	4	1	4
PL.60638	PL.60643	B	6 A (CWC)	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	6.140	0.223	0	0	1	1
PL.60639	PL.60643	B	6 A (CWC)	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	6.290	0.372	0	0	0	0
PL.72493	PL.60643	B	6 A (CWC)	7.33Y	122.1	0.00	2.89	3.01	2	20	10	89	0.00	0.0	5.937	0.019	0	0	0	2
PL.72494	PL.72493	B	#1/0 ACSR	7.33Y	122.1	0.00	2.89	3.01	1	20	10	89	0.00	0.0	5.937	0.000	11	6	1	2
PL.60617	PL.72494	B	#1/0 ACSR	7.33Y	122.1	0.00	2.89	1.27	1	8	4	89	0.00	0.0	5.959	0.022	8	4	1	1
PL.60836	PL.60839	B	6 A (CWC)	7.33Y	122.2	0.01	2.83	2.61	2	17	8	90	0.00	0.0	5.844	0.125	17	8	2	2
PL.35019	PL.35899	B	#4 ACSR	7.34Y	122.4	0.00	2.64	1.08	1	7	3	92	0.00	0.0	5.552	0.165	7	3	1	1
PL.36521	PL.36164	B	#4 ACSR	7.35Y	122.4	0.00	2.58	6.91	5	46	22	90	0.00	0.0	5.303	0.006	0	0	0	7
PD.5052	PL.36521	B	25QA	7.35Y	122.4	0.00	2.58	6.91	28	46	22	90	0.00	0.0	5.303	0.006	0	0	0	7
PL.36522	PD.5052	B	#4 ACSR	7.34Y	122.4	0.04	2.62	6.91	5	46	22	90	0.01	0.0	5.429	0.126	0	0	0	7
PL.36523	PL.36522	B	#4 ACSR	7.34Y	122.3	0.07	2.69	6.91	5	46	22	90	0.02	0.1	5.645	0.216	0	0	1	7

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

Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.35898	PL.36523	B	#4 ACSR	7.31Y	121.9	0.41	3.09	6.91	5	46	22	90	0.15	0.3	6.931	1.286	0	0	0	6
PL.34521	PL.35898	B	#4 ACSR	7.31Y	121.9	0.01	3.10	1.82	1	12	6	89	0.00	0.0	7.072	0.141	12	6	1	1
PL.36565	PL.35898	B	#4 ACSR	7.31Y	121.9	0.01	3.11	5.08	4	33	16	90	0.00	0.0	6.988	0.056	0	0	0	5
PL.33415	PL.36565	B	#4 ACSR	7.31Y	121.9	0.00	3.11	0.10	0	1	0	100	0.00	0.0	7.421	0.434	1	0	1	1
PL.36566	PL.36565	B	#4 ACSR	7.31Y	121.9	0.02	3.13	4.98	4	33	16	90	0.01	0.0	7.085	0.097	0	0	0	4
PL.36567	PL.36566	B	#4 ACSR	7.31Y	121.8	0.04	3.16	4.98	4	33	16	90	0.01	0.0	7.239	0.155	0	0	0	4
PL.36568	PL.36567	B	#4 ACSR	7.31Y	121.8	0.01	3.17	3.19	2	21	10	90	0.00	0.0	7.280	0.041	0	0	0	3
PL.34235	PL.36568	B	#4 ACSR	7.31Y	121.8	0.00	3.17	1.95	2	13	6	91	0.00	0.0	7.376	0.096	13	6	1	1
PL.34721	PL.36568	B	#4 ACSR	7.31Y	121.8	0.02	3.19	1.24	1	8	4	89	0.00	0.0	7.604	0.324	0	0	0	2
PL.34854	PL.34721	B	#4 ACSR	7.31Y	121.8	0.00	3.19	0.66	1	4	2	89	0.00	0.0	7.664	0.060	4	2	1	1
PL.34722	PL.34721	B	#4 ACSR	7.31Y	121.8	0.00	3.19	0.58	0	4	2	89	0.00	0.0	7.693	0.088	4	2	1	1
PL.34845	PL.36567	B	#2 ACSR	7.31Y	121.8	0.00	3.17	1.79	1	12	6	89	0.00	0.0	7.291	0.051	12	6	1	1
PL.34734	PL.64808	B	6 A (CWC)	7.43Y	123.9	0.00	1.13	1.15	1	8	4	89	0.00	0.0	4.556	0.073	8	4	1	1
PL.33969	PL.36255	B	#4 ACSR	7.11Y	118.5	0.00	6.50	2.76	2	18	9	89	0.00	0.0	3.726	0.072	18	9	1	1
PL.62594	PL.36260	B	6 A (CWC)	7.12Y	118.6	0.00	6.41	11.04	8	71	34	90	0.00	0.0	3.460	0.003	0	0	0	12
PD.9396	PL.62594	B	T	7.12Y	118.6	0.00	6.41	11.04	0	71	34	90	0.00	0.0	3.460	0.003	0	0	0	12
PL.62595	PD.9396	B	6 A (CWC)	7.11Y	118.6	0.04	6.45	11.04	8	71	34	90	0.02	0.0	3.533	0.072	0	0	0	12
PL.57847	PL.62595	B	#2 ACSR	7.11Y	118.6	0.00	6.45	0.00	0	0	0	100	0.00	0.0	3.556	0.023	0	0	0	0
PL.36256	PL.62595	B	6 A (CWC)	7.11Y	118.5	0.04	6.49	11.04	8	71	34	90	0.02	0.0	3.614	0.082	10	5	2	12
PL.36258	PL.36256	B	6 A (CWC)	7.11Y	118.5	0.03	6.52	9.47	7	61	29	90	0.02	0.0	3.684	0.069	0	0	0	10
PL.34842	PL.36258	B	#4 ACSR	7.11Y	118.5	0.00	6.52	1.14	1	7	4	87	0.00	0.0	3.724	0.040	7	4	1	1
PL.37168	PL.36258	B	#4 ACSR	7.11Y	118.5	0.00	6.52	2.09	2	13	6	91	0.00	0.0	3.720	0.037	9	4	1	2
PL.37169	PL.37168	B	#4 ACSR	7.11Y	118.5	0.00	6.52	0.74	1	5	2	93	0.00	0.0	3.749	0.028	5	2	1	1
PL.34488	PL.36258	B	6 A (CWC)	7.11Y	118.4	0.04	6.56	6.24	4	40	19	90	0.01	0.0	3.814	0.130	0	0	0	7
PL.34489	PL.34488	B	6 A (CWC)	7.11Y	118.4	0.02	6.58	4.24	3	27	13	90	0.00	0.0	3.933	0.119	16	8	3	5
PL.34525	PL.34489	B	6 A (CWC)	7.11Y	118.4	0.00	6.58	1.81	1	12	6	89	0.00	0.0	3.994	0.061	12	6	2	2
PL.34490	PL.34488	B	#4 ACSR	7.11Y	118.4	0.00	6.56	2.00	2	13	6	91	0.00	0.0	3.860	0.046	10	5	1	2
PL.34491	PL.34490	B	#4 ACSR	7.11Y	118.4	0.00	6.56	0.49	0	3	2	83	0.00	0.0	3.885	0.025	3	2	1	1
PL.34978	PL.36259	B	#2 ACSR	7.12Y	118.6	0.00	6.39	3.48	2	22	11	89	0.00	0.0	3.457	0.040	22	11	3	3
PL.34595	PL.36265	B	#4 ACSR	7.12Y	118.7	0.01	6.26	9.26	7	59	29	90	0.01	0.0	3.219	0.030	0	0	0	7
PL.37082	PL.34595	B	#4 ACSR	7.12Y	118.7	0.01	6.26	5.77	4	37	18	90	0.00	0.0	3.254	0.035	6	3	1	5

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Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.37083	PL.37082	B	#4 ACSR	7.12Y	118.7	0.01	6.27	4.85	4	31	15	90	0.00	0.0	3.297	0.043	30	15	3	4
PL.36266	PL.37083	B	#4 ACSR	7.12Y	118.7	0.00	6.27	0.16	0	1	1	71	0.00	0.0	3.355	0.057	1	1	1	1
PL.36267	PL.36266	B	#4 ACSR	7.12Y	118.7	0.00	6.27	0.00	0	0	0	100	0.00	0.0	3.411	0.057	0	0	0	0
PL.34817	PL.34595	B	#4 ACSR	7.12Y	118.7	0.00	6.26	3.50	3	22	11	89	0.00	0.0	3.278	0.059	22	11	2	2
CP.56	PL.37173	B	Cap (500)	7.14Y	119.0	0.00	6.04	0.00	0	0	0	100	0.00	0.0	2.922	0.059	0	0	0	0
PL.35294	PL.35281	B	6 A (CWC)	7.15Y	119.2	0.01	5.83	3.06	2	20	10	89	0.00	0.0	2.633	0.071	9	4	2	3
PL.35295	PL.35294	B	6 A (CWC)	7.15Y	119.2	0.01	5.84	1.72	1	11	5	91	0.00	0.0	2.871	0.238	11	5	1	1
PL.34041	PL.35522	A	#4 ACSR	7.15Y	119.2	0.00	5.78	1.74	1	11	5	91	0.00	0.0	2.602	0.095	11	5	1	1
PL.63115	PL.60608	A	#4 ACSR	7.16Y	119.3	0.00	5.70	4.60	4	30	14	91	0.00	0.0	2.386	0.000	6	3	1	4
PL.63116	PL.63115	A	#4 ACSR	7.16Y	119.3	0.01	5.71	3.68	3	24	11	91	0.00	0.0	2.437	0.050	5	2	1	3
PL.34252	PL.63116	A	#2 ACSR	7.16Y	119.3	0.00	5.71	1.26	1	8	4	89	0.00	0.0	2.476	0.039	8	4	1	1
PL.36594	PL.63116	A	#4 ACSR	7.16Y	119.3	0.00	5.71	1.68	1	11	5	91	0.00	0.0	2.501	0.065	11	5	1	1
PL.60610	PL.60609	B	1/0 AL URD	7.16Y	119.4	0.01	5.65	8.49	5	55	26	90	0.00	0.0	2.346	0.046	15	7	2	10
PL.63117	PL.60610	B	1/0 AL URD	7.16Y	119.3	0.01	5.65	6.18	4	40	19	90	0.00	0.0	2.394	0.048	14	7	3	8
PL.64099	PL.63117	B	1/0 AL URD	7.16Y	119.3	0.00	5.66	4.05	2	26	13	89	0.00	0.0	2.435	0.041	15	7	3	5
PL.64100	PL.64099	B	1/0 AL URD	7.16Y	119.3	0.00	5.66	1.74	1	11	5	91	0.00	0.0	2.481	0.046	11	5	2	2
PL.63104	PL.60609	A	1/0 AL URD	7.16Y	119.4	0.01	5.65	10.02	6	65	31	90	0.01	0.0	2.347	0.047	25	12	3	11
PL.63105	PL.63104	A	1/0 AL URD	7.16Y	119.3	0.01	5.66	6.07	4	39	19	90	0.00	0.0	2.397	0.050	0	0	0	8
PL.60613	PL.63105	A	1/0 AL URD	7.16Y	119.3	0.01	5.66	6.07	4	39	19	90	0.00	0.0	2.433	0.036	6	3	1	8
PL.60614	PL.60613	A	1/0 AL URD	7.16Y	119.3	0.00	5.67	5.10	3	33	16	90	0.00	0.0	2.460	0.027	0	0	0	7
PL.63098	PL.60614	A	1/0 AL URD	7.16Y	119.3	0.00	5.67	5.10	3	33	16	90	0.00	0.0	2.494	0.034	9	4	1	7
PL.64097	PL.63098	A	1/0 AL URD	7.16Y	119.3	0.00	5.68	3.67	2	24	11	91	0.00	0.0	2.545	0.051	16	8	5	6
PL.64098	PL.64097	A	1/0 AL URD	7.16Y	119.3	0.00	5.68	1.21	1	8	4	89	0.00	0.0	2.599	0.054	8	4	1	1
PL.54125	PL.35865	C	6 A (CWC)	7.17Y	119.4	0.00	5.57	2.62	2	17	8	90	0.00	0.0	2.218	0.004	0	0	0	1
PD.8125	PL.54125	C	40QA	7.17Y	119.4	0.00	5.57	2.62	7	17	8	90	0.00	0.0	2.218	0.004	0	0	0	1
PL.54126	PD.8125	C	6 A (CWC)	7.17Y	119.4	0.01	5.57	2.62	2	17	8	90	0.00	0.0	2.288	0.070	0	0	0	1
PL.36593	PL.54126	C	#4 ACSR	7.17Y	119.4	0.01	5.58	2.62	2	17	8	90	0.00	0.0	2.435	0.147	17	8	1	1
PL.54127	PL.35865	A	#4 ACSR	7.17Y	119.4	0.00	5.56	2.21	2	14	7	89	0.00	0.0	2.217	0.003	0	0	0	2
PD.8126	PL.54127	A	40QA	7.17Y	119.4	0.00	5.56	2.21	6	14	7	89	0.00	0.0	2.217	0.003	0	0	0	2
PL.54128	PD.8126	A	#4 ACSR	7.17Y	119.4	0.00	5.57	2.21	2	14	7	89	0.00	0.0	2.234	0.017	0	0	0	2
PL.35999	PL.54128	A	#4 ACSR	7.17Y	119.4	0.00	5.57	2.21	2	14	7	89	0.00	0.0	2.266	0.032	14	7	2	2

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Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.54123	PL.35865	C	6 A (CWC)	7.17Y	119.4	0.01	5.57	39.09	28	252	122	90	0.02	0.0	2.218	0.004	0	0	0	32
PD.8124	PL.54123	C	30T	7.17Y	119.4	0.00	5.57	39.09	0	252	122	90	0.00	0.0	2.218	0.004	0	0	0	32
PL.54124	PD.8124	C	6 A (CWC)	7.13Y	118.9	0.57	6.14	39.09	28	252	122	90	1.14	0.5	2.524	0.306	0	0	0	32
PL.34151	PL.54124	C	#2 ACSR	7.13Y	118.9	0.00	6.14	0.00	0	0	0	100	0.00	0.0	2.558	0.034	0	0	0	0
PL.36595	PL.54124	C	6 A (CWC)	7.12Y	118.7	0.12	6.26	39.09	28	251	122	90	0.24	0.1	2.591	0.067	11	5	1	32
PL.36596	PL.36595	C	6 A (CWC)	7.12Y	118.6	0.12	6.38	37.38	27	240	116	90	0.22	0.1	2.658	0.067	2	1	1	31
PL.57601	PL.36596	C	#4 ACSR	7.12Y	118.6	0.01	6.38	3.33	3	21	10	90	0.00	0.0	2.725	0.067	19	9	4	6
PL.57602	PL.57601	C	#4 ACSR	7.12Y	118.6	0.00	6.39	0.33	0	2	1	89	0.00	0.0	2.783	0.059	2	1	1	2
PL.36391	PL.57602	C	#4 ACSR	7.12Y	118.6	0.00	6.39	0.00	0	0	0	100	0.00	0.0	2.833	0.050	0	0	1	1
PL.36629	PL.36596	C	#4 ACSR	7.11Y	118.6	0.06	6.44	5.95	5	38	18	90	0.02	0.0	2.964	0.306	19	9	2	4
PL.36630	PL.36629	C	#4 ACSR	7.11Y	118.6	0.00	6.44	3.00	2	19	9	90	0.00	0.0	2.978	0.014	19	9	2	2
PL.64798	PL.36596	C	6 A (CWC)	7.11Y	118.5	0.09	6.47	27.75	20	178	86	90	0.12	0.1	2.723	0.065	0	0	0	20
PL.64799	PL.64798	C	6 A (CWC)	7.11Y	118.5	0.05	6.51	27.75	20	178	86	90	0.07	0.0	2.761	0.038	2	1	1	20
PL.35103	PL.64799	C	#2 ACSR	7.11Y	118.5	0.00	6.52	2.05	1	13	6	91	0.00	0.0	2.783	0.022	13	6	1	1
PL.36632	PL.64799	C	6 A (CWC)	7.10Y	118.4	0.08	6.59	25.35	18	162	79	90	0.10	0.1	2.827	0.066	0	0	0	18
PL.34526	PL.36632	C	#4 ACSR	7.10Y	118.4	0.01	6.61	5.79	4	37	18	90	0.00	0.0	2.887	0.060	9	5	1	3
PL.34527	PL.34526	C	#4 ACSR	7.10Y	118.4	0.01	6.62	4.33	3	28	13	91	0.00	0.0	2.946	0.059	10	5	1	2
PL.36631	PL.34527	C	#4 ACSR	7.10Y	118.4	0.01	6.63	2.77	2	18	9	89	0.00	0.0	3.112	0.165	18	9	1	1
PL.35098	PL.36632	C	6 A (CWC)	7.10Y	118.3	0.12	6.71	19.55	14	125	61	90	0.11	0.1	2.962	0.135	15	7	3	15
PL.34827	PL.35098	C	6 A (CWC)	7.09Y	118.2	0.05	6.76	15.34	11	98	47	90	0.03	0.0	3.034	0.072	19	9	2	10
PL.34828	PL.34827	C	6 A (CWC)	7.09Y	118.2	0.05	6.80	12.34	9	79	38	90	0.03	0.0	3.112	0.078	1	0	1	8
PL.36633	PL.34828	C	6 A (CWC)	7.09Y	118.2	0.02	6.82	6.92	5	44	21	90	0.00	0.0	3.168	0.056	16	8	2	4
PL.36634	PL.36633	C	6 A (CWC)	7.09Y	118.2	0.00	6.82	4.39	3	28	14	89	0.00	0.0	3.180	0.011	0	0	0	2
PL.36639	PL.36634	C	6 A (CWC)	7.09Y	118.2	0.01	6.83	2.41	2	15	7	91	0.00	0.0	3.277	0.097	15	7	1	1
PL.35254	PL.36634	C	#2 ACSR	7.09Y	118.2	0.00	6.82	1.98	1	13	6	91	0.00	0.0	3.217	0.037	13	6	1	1
PL.36640	PL.34828	C	6 A (CWC)	7.09Y	118.2	0.02	6.82	5.26	4	34	16	90	0.00	0.0	3.185	0.073	0	0	0	3
PL.36643	PL.36640	C	6 A (CWC)	7.09Y	118.2	0.01	6.83	1.91	1	12	6	89	0.00	0.0	3.242	0.057	0	0	0	1
PL.36644	PL.36643	C	6 A (CWC)	7.09Y	118.2	0.00	6.83	1.91	1	12	6	89	0.00	0.0	3.350	0.108	12	6	1	1
PL.36641	PL.36640	C	#4 ACSR	7.09Y	118.2	0.01	6.83	3.35	3	21	10	90	0.00	0.0	3.250	0.065	9	4	1	2
PL.36642	PL.36641	C	#4 ACSR	7.09Y	118.2	0.00	6.83	1.92	1	12	6	89	0.00	0.0	3.265	0.015	12	6	1	1
PL.34605	PL.35098	C	#2 ACSR	7.10Y	118.3	0.00	6.71	0.00	0	0	0	100	0.00	0.0	3.011	0.049	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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.55828	PL.35098	C	#2 ACSR	7.10Y	118.3	0.00	6.72	1.88	1	12	6	89	0.00	0.0	3.047	0.085	3	2	1	2
PL.55829	PL.55828	C	#1/0 ACSR	7.10Y	118.3	0.00	6.72	1.34	1	9	4	91	0.00	0.0	3.088	0.040	9	4	1	1
PL.35769	PL.52449	C	#4 ACSR	7.18Y	119.7	0.00	5.33	1.06	1	7	3	92	0.00	0.0	2.055	0.074	7	3	1	1
PL.34830	PL.35283	A	6 A (CWC)	7.19Y	119.9	0.00	5.13	3.60	3	23	11	90	0.00	0.0	1.856	0.035	15	7	1	4
PL.34161	PL.34830	A	6 A (CWC)	7.19Y	119.9	0.00	5.13	0.00	0	0	0	100	0.00	0.0	1.900	0.043	0	0	0	0
PL.34857	PL.34830	A	#2 ACSR	7.19Y	119.9	0.00	5.13	1.33	1	9	4	91	0.00	0.0	1.874	0.018	9	4	3	3
PL.66644	PL.35282	C	#4 ACSR	7.20Y	120.0	0.00	5.02	2.95	2	19	9	90	0.00	0.0	1.741	0.004	0	0	0	3
PD.10005	PL.66644	C	25T	7.20Y	120.0	0.00	5.02	2.95	0	19	9	90	0.00	0.0	1.741	0.004	0	0	0	3
PL.66645	PD.10005	C	#4 ACSR	7.20Y	120.0	0.00	5.02	2.95	2	19	9	90	0.00	0.0	1.753	0.013	13	7	1	3
PL.37158	PL.66645	C	#4 ACSR	7.20Y	120.0	0.00	5.02	0.87	1	6	3	89	0.00	0.0	1.933	0.179	4	2	1	2
PL.37159	PL.37158	C	#4 ACSR	7.20Y	120.0	0.00	5.02	0.29	0	2	1	89	0.00	0.0	2.073	0.141	2	1	1	1
PL.72488	PL.60842	ABC	#3/0 ACSR	7.20Y	120.0	0.09	5.01	98.74	33	1941	888	91	1.01	0.1	1.732	0.061	0	0	0	211
PL.72489	PL.72488	ABC	#3/0 ACSR	7.19Y	119.9	0.09	5.10	98.74	33	1940	886	91	1.01	0.1	1.794	0.062	16	8	1	211
PL.57586	PL.72489	ABC	#3/0 ACSR	7.19Y	119.8	0.12	5.21	97.90	33	1922	877	91	1.35	0.1	1.878	0.085	20	10	2	210
PL.57587	PL.57586	ABC	#3/0 ACSR	7.18Y	119.7	0.04	5.26	96.11	32	1886	858	91	0.51	0.0	1.911	0.033	0	0	0	203
PL.36493	PL.57587	A	#1/0 ACSR	7.18Y	119.7	0.00	5.26	3.08	1	20	10	89	0.00	0.0	1.913	0.002	0	0	0	1
PD.5269	PL.36493	A	40QA	7.18Y	119.7	0.00	5.26	3.08	8	20	10	89	0.00	0.0	1.913	0.002	0	0	0	1
PL.36494	PD.5269	A	#1/0 ACSR	7.18Y	119.7	0.00	5.26	3.08	1	20	10	89	0.00	0.0	1.964	0.051	20	10	1	1
PL.36817	PL.57587	ABC	#3/0 ACSR	7.18Y	119.6	0.13	5.39	95.08	32	1866	848	91	1.52	0.1	2.012	0.100	0	0	0	202
PL.36818	PL.36817	ABC	#3/0 ACSR	7.17Y	119.5	0.09	5.48	95.08	32	1864	846	91	0.96	0.1	2.075	0.064	12	6	1	202
PL.51867	PL.36818	ABC	#3/0 ACSR	7.14Y	119.0	0.53	6.01	94.45	31	1851	838	91	5.96	0.3	2.473	0.398	0	0	0	201
REG64	PL.51867	ABC	114.3 KVA	7.52Y	125.3	-6.26	-0.26	94.45	63	1845	830	91	percent Boost= 5.00 Tap= 8.0							201
PL.51868	REG64	ABC	#3/0 ACSR	7.51Y	125.1	0.16	-0.10	89.73	30	1845	830	91	1.70	0.1	2.599	0.126	0	0	0	201
PL.63794	PL.51868	ABC	#3/0 ACSR	7.51Y	125.1	0.00	-0.09	89.71	30	1843	827	91	0.04	0.0	2.602	0.003	0	0	0	200
PL.63795	PL.63794	ABC	#3/0 ACSR	7.50Y	125.0	0.10	0.00	89.71	30	1843	827	91	1.06	0.1	2.680	0.078	0	0	0	200
PL.36498	PL.63795	ABC	#3/0 ACSR	7.49Y	124.9	0.08	0.08	89.71	30	1842	825	91	0.86	0.0	2.743	0.063	0	0	0	200
PL.36819	PL.36498	A	6 A (CWC)	7.49Y	124.9	0.00	0.08	0.51	0	3	2	83	0.00	0.0	2.744	0.001	0	0	0	2
PD.5812	PL.36819	A	50QA	7.49Y	124.9	0.00	0.08	0.51	1	3	2	83	0.00	0.0	2.744	0.001	0	0	0	2
PL.36820	PD.5812	A	6 A (CWC)	7.49Y	124.9	0.00	0.08	0.51	0	3	2	83	0.00	0.0	2.763	0.019	1	1	1	2
PL.36497	PL.36820	A	6 A (CWC)	7.49Y	124.9	0.00	0.09	0.34	0	2	1	89	0.00	0.0	2.837	0.074	2	1	1	1
PL.36823	PL.36498	ABC	#3/0 ACSR	7.48Y	124.7	0.17	0.25	89.54	30	1838	823	91	1.80	0.1	2.876	0.133	0	0	0	198

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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.36824	PL.36823	ABC	#3/0 ACSR	7.48Y	124.6	0.13	0.39	89.34	30	1832	818	91	1.41	0.1	2.983	0.107	36	17	3	197
PL.36825	PL.36824	A	#4 ACSR	7.48Y	124.6	0.01	0.39	1.94	1	13	6	91	0.00	0.0	3.060	0.076	5	2	1	2
PL.36826	PL.36825	A	#4 ACSR	7.48Y	124.6	0.00	0.39	1.21	1	8	4	89	0.00	0.0	3.172	0.112	8	4	1	1
PL.35645	PL.36824	ABC	#3/0 ACSR	7.47Y	124.5	0.08	0.47	67.94	23	1398	606	92	0.69	0.0	3.073	0.090	17	8	3	142
PL.36821	PL.35645	ABC	#3/0 ACSR	7.47Y	124.4	0.09	0.56	67.08	22	1380	597	92	0.73	0.1	3.170	0.097	0	0	0	139
PL.36822	PL.36821	ABC	#3/0 ACSR	7.46Y	124.4	0.03	0.59	66.08	22	1359	586	92	0.27	0.0	3.207	0.037	0	0	0	136
PL.35926	PL.36822	ABC	#3/0 ACSR	7.46Y	124.4	0.00	0.60	66.08	22	1359	586	92	0.01	0.0	3.208	0.001	0	0	0	136
PD.5858	PL.35926	ABC	100L	7.46Y	124.4	0.00	0.60	66.08	66	1359	586	92	0.00	0.0	3.208	0.001	0	0	0	136
PL.35927	PD.5858	ABC	#3/0 ACSR	7.46Y	124.4	0.05	0.65	66.08	22	1359	586	92	0.43	0.0	3.267	0.059	15	7	1	136
PL.34115	PL.35927	ABC	#3/0 ACSR	7.45Y	124.2	0.13	0.78	64.34	21	1323	568	92	1.05	0.1	3.418	0.151	0	0	1	132
PL.34116	PL.34115	ABC	#3/0 ACSR	7.45Y	124.1	0.10	0.89	64.34	21	1322	567	92	0.81	0.1	3.535	0.117	0	0	0	131
PL.34493	PL.34116	C	#4 ACSR	7.45Y	124.1	0.00	0.89	1.24	1	8	4	89	0.00	0.0	3.536	0.001	0	0	0	2
PD.5725	PL.34493	C	40QA	7.45Y	124.1	0.00	0.89	1.24	3	8	4	89	0.00	0.0	3.536	0.001	0	0	0	2
PL.35142	PD.5725	C	#4 ACSR	7.45Y	124.1	0.00	0.89	1.24	1	8	4	89	0.00	0.0	3.610	0.074	8	4	2	2
PL.36172	PL.34116	ABC	#3/0 ACSR	7.44Y	124.0	0.07	0.96	63.92	21	1313	561	92	0.52	0.0	3.611	0.076	16	8	2	129
PL.36173	PL.36172	ABC	#3/0 ACSR	7.44Y	124.0	0.07	1.03	63.11	21	1296	553	92	0.56	0.0	3.695	0.084	9	5	1	127
PL.36816	PL.36173	A	#4 ACSR	7.44Y	124.0	0.00	1.03	4.85	4	32	16	89	0.00	0.0	3.713	0.018	0	0	1	9
PL.62796	PL.36816	A	#4 ACSR	7.44Y	124.0	0.00	1.04	4.84	4	32	16	89	0.00	0.0	3.746	0.033	24	12	7	8
PL.62797	PL.62796	A	#4 ACSR	7.44Y	124.0	0.00	1.04	1.21	1	8	4	89	0.00	0.0	3.806	0.060	8	4	1	1
PL.35403	PL.36173	ABC	#3/0 ACSR	7.43Y	123.9	0.10	1.13	61.03	20	1254	532	92	0.71	0.1	3.809	0.115	7	3	2	117
PL.33887	PL.35403	ABC	#3/0 ACSR	7.43Y	123.8	0.03	1.16	45.89	15	949	383	93	0.17	0.0	3.859	0.049	8	4	1	83
PL.35239	PL.33887	C	#4 ACSR	7.43Y	123.8	0.00	1.16	1.59	1	11	5	91	0.00	0.0	3.859	0.000	0	0	0	1
PD.5271	PL.35239	C	40QA	7.43Y	123.8	0.00	1.16	1.59	4	11	5	91	0.00	0.0	3.859	0.000	0	0	0	1
PL.35240	PD.5271	C	#4 ACSR	7.43Y	123.8	0.00	1.16	1.59	1	11	5	91	0.00	0.0	3.880	0.021	11	5	1	1
PL.36789	PL.33887	ABC	#3/0 ACSR	7.43Y	123.8	0.05	1.21	43.73	15	905	362	93	0.29	0.0	3.950	0.091	10	5	1	79
PL.36437	PL.36789	A	#2 ACSR	7.43Y	123.8	0.00	1.21	6.42	4	43	21	90	0.00	0.0	3.951	0.001	0	0	0	6
PD.5747	PL.36437	A	25T	7.43Y	123.8	0.00	1.21	6.42	0	43	21	90	0.00	0.0	3.951	0.001	0	0	0	6
PL.36438	PD.5747	A	#2 ACSR	7.43Y	123.8	0.00	1.22	6.42	4	43	21	90	0.00	0.0	3.978	0.027	28	14	4	6
PL.36436	PL.36438	A	#2 ACSR	7.43Y	123.8	0.00	1.22	2.20	1	15	7	91	0.00	0.0	4.025	0.047	15	7	2	2
PL.36790	PL.36789	ABC	#3/0 ACSR	7.42Y	123.7	0.06	1.27	41.09	14	852	336	93	0.28	0.0	4.051	0.101	11	5	1	72
PL.34093	PL.36790	ABC	#2 ACSR	7.42Y	123.7	0.00	1.27	11.41	7	250	44	98	0.00	0.0	4.053	0.002	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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.5111	PL.34093	ABC	40QA	7.42Y	123.7	0.00	1.27	11.41	29	250	44	98	0.00	0.0	4.053	0.002	0	0	0	3
PL.34094	PD.5111	ABC	#2 ACSR	7.42Y	123.7	0.01	1.28	11.41	7	250	44	98	0.01	0.0	4.080	0.027	0	0	0	3
PL.36801	PL.34094	ABC	#2 ACSR	7.42Y	123.7	0.03	1.31	10.42	6	230	33	99	0.06	0.0	4.213	0.133	0	0	0	2
PL.36802	PL.36801	ABC	#2 ACSR	7.42Y	123.7	0.01	1.32	10.10	6	223	30	99	0.02	0.0	4.270	0.057	0	0	0	1
PL.35771	PL.36802	ABC	#2 ACSR	7.42Y	123.7	0.00	1.33	10.10	6	223	30	99	0.00	0.0	4.289	0.019	223	30	1	1
PL.36803	PL.36801	A	#1/0 ACSR	7.42Y	123.7	0.00	1.31	1.02	0	7	3	92	0.00	0.0	4.213	0.000	0	0	0	1
PD.5215	PL.36803	A	10QA	7.42Y	123.7	0.00	1.31	1.02	0	7	3	92	0.00	0.0	4.213	0.000	0	0	0	1
PL.36804	PD.5215	A	#1/0 ACSR	7.42Y	123.7	0.00	1.31	1.02	0	7	3	92	0.00	0.0	4.282	0.069	7	3	1	1
PL.34091	PL.34094	A	6 A (CWC)	7.42Y	123.7	0.00	1.28	3.10	2	21	10	90	0.00	0.0	4.081	0.001	0	0	0	1
PD.5216	PL.34091	A	30QA	7.42Y	123.7	0.00	1.28	3.10	10	21	10	90	0.00	0.0	4.081	0.001	0	0	0	1
PL.34095	PD.5216	A	6 A (CWC)	7.42Y	123.7	0.00	1.28	3.10	2	21	10	90	0.00	0.0	4.110	0.029	21	10	1	1
PL.35910	PL.36790	ABC	#3/0 ACSR	7.42Y	123.7	0.01	1.28	29.47	10	590	287	90	0.04	0.0	4.082	0.031	10	5	1	68
PL.35915	PL.35910	ABC	#3/0 ACSR	7.42Y	123.7	0.05	1.33	28.54	10	572	278	90	0.16	0.0	4.198	0.116	7	4	1	66
PL.35916	PL.35915	ABC	#3/0 ACSR	7.42Y	123.7	0.02	1.35	27.45	9	550	267	90	0.06	0.0	4.246	0.048	14	7	1	63
PL.34126	PL.35916	ABC	#3/0 ACSR	7.42Y	123.6	0.02	1.37	26.77	9	536	260	90	0.08	0.0	4.312	0.067	38	18	5	62
PL.34748	PL.34126	ABC	#3/0 ACSR	7.42Y	123.6	0.02	1.39	24.88	8	498	242	90	0.06	0.0	4.369	0.057	0	0	0	57
PL.35104	PL.34748	C	6 A (CWC)	7.42Y	123.6	0.00	1.40	3.74	3	25	12	90	0.00	0.0	4.415	0.046	25	12	2	2
PL.65752	PL.34748	A	6 A (CWC)	7.42Y	123.6	0.00	1.39	10.04	7	67	32	90	0.00	0.0	4.373	0.003	0	0	0	6
PD.9589	PL.65752	A	25T	7.42Y	123.6	0.00	1.39	10.04	0	67	32	90	0.00	0.0	4.373	0.003	0	0	0	6
PL.65753	PD.9589	A	6 A (CWC)	7.42Y	123.6	0.01	1.40	10.04	7	67	32	90	0.00	0.0	4.392	0.020	0	0	0	6
PL.64801	PL.65753	A	6 A (CWC)	7.42Y	123.6	0.00	1.40	10.04	7	67	32	90	0.00	0.0	4.392	0.000	7	3	2	6
PL.36799	PL.64801	A	6 A (CWC)	7.41Y	123.5	0.05	1.45	6.25	4	42	20	90	0.01	0.0	4.657	0.264	29	14	1	2
PL.36800	PL.36799	A	6 A (CWC)	7.41Y	123.5	0.00	1.46	1.84	1	12	6	89	0.00	0.0	4.740	0.084	12	6	1	1
PL.34253	PL.64801	A	#1/0 ACSR	7.42Y	123.6	0.00	1.40	2.79	1	19	9	90	0.00	0.0	4.460	0.068	19	9	2	2
PL.36797	PL.34748	ABC	#3/0 ACSR	7.42Y	123.6	0.02	1.41	20.28	7	406	197	90	0.04	0.0	4.431	0.062	14	7	2	49
PL.34447	PL.36797	C	6 A (CWC)	7.42Y	123.6	0.00	1.41	1.51	1	10	5	89	0.00	0.0	4.495	0.064	10	5	1	1
PL.36798	PL.36797	ABC	#3/0 ACSR	7.41Y	123.6	0.02	1.43	19.06	6	381	185	90	0.04	0.0	4.493	0.062	0	0	0	46
PL.36796	PL.36798	ABC	#3/0 ACSR	7.41Y	123.6	0.01	1.44	18.79	6	376	182	90	0.02	0.0	4.528	0.035	0	0	0	45
PL.36527	PL.36796	ABC	#3/0 ACSR	7.41Y	123.5	0.02	1.46	18.79	6	376	182	90	0.05	0.0	4.614	0.086	38	18	4	45
PL.36525	PL.36527	B	6 A (CWC)	7.41Y	123.5	0.05	1.51	14.56	10	97	47	90	0.04	0.0	4.693	0.079	12	6	1	8
PL.36526	PL.36525	B	6 A (CWC)	7.41Y	123.5	0.01	1.52	12.83	9	86	41	90	0.01	0.0	4.712	0.019	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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.51529	PL.36526	B	6 A (CWC)	7.41Y	123.4	0.05	1.57	12.03	9	80	39	90	0.03	0.0	4.807	0.096	0	0	0	6
PL.51528	PL.51529	B	#4 ACSR	7.41Y	123.4	0.00	1.58	1.76	1	12	6	89	0.00	0.0	4.862	0.055	12	6	1	1
PL.51530	PL.51529	B	6 A (CWC)	7.40Y	123.4	0.02	1.59	10.27	7	68	33	90	0.01	0.0	4.841	0.033	0	0	0	5
PL.57899	PL.51530	B	6 A (CWC)	7.40Y	123.4	0.03	1.62	10.27	7	68	33	90	0.01	0.0	4.903	0.062	9	4	1	5
PL.57898	PL.57899	B	6 A (CWC)	7.40Y	123.4	0.01	1.62	4.14	3	28	13	91	0.00	0.0	4.932	0.029	0	0	0	2
PL.57895	PL.57898	B	6 A (CWC)	7.40Y	123.4	0.02	1.64	4.14	3	28	13	91	0.00	0.0	5.023	0.091	0	0	0	2
PL.57896	PL.57895	B	6 A (CWC)	7.40Y	123.4	0.00	1.65	2.21	2	15	7	91	0.00	0.0	5.098	0.075	15	7	1	1
PL.57900	PL.57895	B	#1/0 ACSR	7.40Y	123.4	0.00	1.64	1.94	1	13	6	91	0.00	0.0	5.056	0.033	13	6	1	1
PL.57897	PL.57899	B	#4 ACSR	7.40Y	123.4	0.01	1.63	4.84	4	32	16	89	0.00	0.0	4.969	0.066	21	10	1	2
PL.36371	PL.57897	B	#4 ACSR	7.40Y	123.4	0.00	1.63	1.61	1	11	5	91	0.00	0.0	5.009	0.040	11	5	1	1
PL.51833	PL.36526	B	#4 ACSR	7.41Y	123.5	0.00	1.52	0.80	1	5	3	86	0.00	0.0	4.762	0.050	5	3	1	1
PL.36369	PL.36527	C	6 A (CWC)	7.41Y	123.4	0.11	1.57	36.14	26	241	117	90	0.20	0.1	4.683	0.069	24	12	2	33
PL.34197	PL.36369	C	1/0 AL URD	7.41Y	123.4	0.00	1.57	7.17	4	48	23	90	0.00	0.0	4.708	0.025	14	7	7	14
PL.36508	PL.34197	C	1/0 AL URD	7.41Y	123.4	0.00	1.58	5.14	3	34	17	89	0.00	0.0	4.727	0.019	34	17	7	7
PL.36370	PL.36369	C	6 A (CWC)	7.40Y	123.4	0.03	1.60	25.32	18	169	82	90	0.04	0.0	4.708	0.026	0	0	0	17
PL.36368	PL.36370	C	6 A (CWC)	7.40Y	123.3	0.05	1.65	25.32	18	169	82	90	0.07	0.0	4.752	0.044	0	0	0	17
PL.36528	PL.36368	C	6 A (CWC)	7.40Y	123.3	0.07	1.73	22.79	16	152	74	90	0.08	0.1	4.820	0.068	3	1	1	15
PL.36507	PL.36528	C	6 A (CWC)	7.40Y	123.3	0.01	1.74	22.36	16	149	72	90	0.01	0.0	4.831	0.010	47	23	4	14
PL.60618	PL.36507	C	6 A (CWC)	7.40Y	123.3	0.01	1.74	2.82	2	19	9	90	0.00	0.0	4.960	0.129	19	9	3	3
PL.36366	PL.36507	C	6 A (CWC)	7.39Y	123.2	0.03	1.76	12.55	9	84	40	90	0.02	0.0	4.890	0.059	31	15	2	7
PL.36367	PL.36366	C	#4 ACSR	7.39Y	123.2	0.01	1.78	7.96	6	53	26	90	0.01	0.0	4.935	0.046	14	7	1	5
PL.36365	PL.36367	C	#4 ACSR	7.39Y	123.2	0.00	1.78	2.00	2	13	6	91	0.00	0.0	4.981	0.046	13	6	2	2
PL.33373	PL.36367	C	#4 ACSR	7.39Y	123.2	0.00	1.78	3.83	3	25	12	90	0.00	0.0	4.961	0.026	25	12	2	2
PL.34531	PL.36368	C	6 A (CWC)	7.40Y	123.3	0.00	1.66	1.41	1	9	5	87	0.00	0.0	4.807	0.054	9	5	1	1
PL.35257	PL.36368	C	6 A (CWC)	7.40Y	123.3	0.00	1.65	1.13	1	8	4	89	0.00	0.0	4.791	0.038	8	4	1	1
PL.33526	PL.36798	C	6 A (CWC)	7.41Y	123.6	0.00	1.43	0.81	1	5	3	86	0.00	0.0	4.590	0.097	5	3	1	1
PL.35117	PL.35915	C	#4 ACSR	7.42Y	123.7	0.00	1.33	2.20	2	15	7	91	0.00	0.0	4.242	0.044	15	7	2	2
PL.35911	PL.35910	C	#4 ACSR	7.42Y	123.7	0.00	1.28	1.29	1	9	4	91	0.00	0.0	4.083	0.001	0	0	0	1
PD.5746	PL.35911	C	30QA	7.42Y	123.7	0.00	1.28	1.29	4	9	4	91	0.00	0.0	4.083	0.001	0	0	0	1
PL.35912	PD.5746	C	#4 ACSR	7.42Y	123.7	0.00	1.28	1.29	1	9	4	91	0.00	0.0	4.121	0.038	9	4	1	1
PL.35775	PL.33887	A	6 A (CWC)	7.43Y	123.8	0.01	1.17	3.69	3	25	12	90	0.00	0.0	3.942	0.084	10	5	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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.35776	PL.35775	A	6 A (CWC)	7.43Y	123.8	0.01	1.18	2.19	2	15	7	91	0.00	0.0	4.033	0.091	0	0	0	1
PL.35215	PL.35776	A	#2 ACSR	7.43Y	123.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	4.059	0.026	0	0	0	0
PL.35777	PL.35776	A	6 A (CWC)	7.43Y	123.8	0.00	1.18	2.19	2	15	7	91	0.00	0.0	4.108	0.075	15	7	1	1
PL.58182	PL.35403	C	#4 ACSR	7.43Y	123.9	0.00	1.13	44.46	34	297	144	90	0.01	0.0	3.812	0.002	0	0	0	32
PD.8604	PL.58182	C	30T	7.43Y	123.9	0.00	1.13	44.46	0	297	144	90	0.00	0.0	3.812	0.002	0	0	0	32
PL.58183	PD.8604	C	#4 ACSR	7.43Y	123.8	0.06	1.19	44.46	34	297	144	90	0.14	0.0	3.843	0.031	30	14	3	32
PL.36805	PL.58183	C	#4 ACSR	7.43Y	123.8	0.05	1.24	40.01	31	267	130	90	0.10	0.0	3.871	0.028	8	4	1	29
PL.36806	PL.36805	C	#4 ACSR	7.42Y	123.7	0.06	1.31	38.78	30	259	126	90	0.13	0.0	3.909	0.038	20	10	2	28
PL.36810	PL.36806	C	#4 ACSR	7.42Y	123.7	0.03	1.33	19.29	15	129	62	90	0.03	0.0	3.943	0.034	23	11	2	11
PL.36811	PL.36810	C	#4 ACSR	7.42Y	123.7	0.02	1.35	15.88	12	106	51	90	0.01	0.0	3.964	0.021	0	0	0	9
PL.36807	PL.36811	C	#4 ACSR	7.42Y	123.6	0.03	1.38	15.88	12	106	51	90	0.03	0.0	4.009	0.045	0	0	0	9
PL.36808	PL.36807	C	#4 ACSR	7.42Y	123.6	0.01	1.40	15.88	12	106	51	90	0.01	0.0	4.041	0.032	93	45	8	9
PL.36809	PL.36808	C	#4 ACSR	7.42Y	123.6	0.00	1.40	1.89	1	13	6	91	0.00	0.0	4.082	0.041	13	6	1	1
PL.34948	PL.36806	C	#4 ACSR	7.42Y	123.7	0.04	1.35	16.53	13	110	53	90	0.03	0.0	3.970	0.062	26	12	2	15
PL.34949	PL.34948	C	#4 ACSR	7.42Y	123.6	0.02	1.36	9.61	7	64	31	90	0.01	0.0	4.007	0.036	7	3	1	10
PL.35258	PL.34949	C	#4 ACSR	7.42Y	123.6	0.01	1.37	6.29	5	42	20	90	0.00	0.0	4.044	0.037	19	9	2	4
PL.34899	PL.35258	C	#4 ACSR	7.42Y	123.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	4.093	0.049	0	0	0	0
PL.36812	PL.35258	C	#4 ACSR	7.42Y	123.6	0.00	1.37	3.39	3	23	11	90	0.00	0.0	4.077	0.034	23	11	2	2
PL.66135	PL.34949	C	#4 ACSR	7.42Y	123.6	0.00	1.37	2.18	2	15	7	91	0.00	0.0	4.035	0.028	0	0	0	4
PL.66136	PL.66135	C	#4 ACSR	7.42Y	123.6	0.00	1.37	2.18	2	15	7	91	0.00	0.0	4.067	0.032	0	0	2	4
PL.36814	PL.66136	C	#4 ACSR	7.42Y	123.6	0.00	1.37	2.16	2	14	7	89	0.00	0.0	4.106	0.039	14	7	2	2
PL.36815	PL.36814	C	#4 ACSR	7.42Y	123.6	0.00	1.37	0.00	0	0	0	100	0.00	0.0	4.157	0.051	0	0	0	0
PL.34152	PL.34949	C	#2 ACSR	7.42Y	123.6	0.00	1.36	0.08	0	1	0	100	0.00	0.0	4.031	0.024	1	0	1	1
PL.35106	PL.34948	C	#4 ACSR	7.42Y	123.6	0.00	1.35	3.09	2	21	10	90	0.00	0.0	4.006	0.035	21	10	3	3
PL.34958	PL.36172	A	6 A (CWC)	7.44Y	124.0	0.00	0.96	0.00	0	0	0	100	0.00	0.0	3.686	0.075	0	0	0	0
PL.34610	PL.35927	A	6 A (CWC)	7.46Y	124.3	0.00	0.65	3.05	2	21	10	90	0.00	0.0	3.329	0.062	21	10	3	3
PL.33919	PL.36821	A	6 A (CWC)	7.47Y	124.4	0.01	0.57	3.01	2	20	10	89	0.00	0.0	3.257	0.087	20	10	3	3
PL.35082	PL.36824	ABC	#3/0 ACSR	7.48Y	124.6	0.02	0.41	19.00	6	383	186	90	0.05	0.0	3.073	0.090	0	0	0	50
PL.33766	PL.35082	A	#4 ACSR	7.47Y	124.6	0.01	0.42	9.97	8	67	32	90	0.01	0.0	3.102	0.028	17	8	3	10
PL.62715	PL.33766	A	#4 ACSR	7.47Y	124.6	0.01	0.43	7.39	6	50	24	90	0.00	0.0	3.153	0.051	50	24	7	7
PL.35582	PL.35082	C	6 A (CWC)	7.48Y	124.6	0.00	0.41	1.20	1	8	4	89	0.00	0.0	3.141	0.067	8	4	1	1

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

Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.34272	PL.35082	ABC	#3/0 ACSR	7.47Y	124.6	0.02	0.43	15.27	5	308	149	90	0.03	0.0	3.165	0.091	11	5	1	39
PL.36829	PL.34272	ABC	#3/0 ACSR	7.47Y	124.6	0.01	0.44	14.74	5	297	144	90	0.02	0.0	3.233	0.068	16	8	1	38
PL.36830	PL.36829	ABC	#3/0 ACSR	7.47Y	124.5	0.01	0.46	12.88	4	260	126	90	0.02	0.0	3.298	0.065	0	0	0	35
PL.34232	PL.36830	A	#2 ACSR	7.47Y	124.5	0.00	0.46	2.01	1	14	7	89	0.00	0.0	3.300	0.002	0	0	0	1
PD.5767	PL.34232	A	30QA	7.47Y	124.5	0.00	0.46	2.01	7	14	7	89	0.00	0.0	3.300	0.002	0	0	0	1
PL.34233	PD.5767	A	#2 ACSR	7.47Y	124.5	0.00	0.46	2.01	1	14	7	89	0.00	0.0	3.334	0.034	14	7	1	1
PL.36831	PL.36830	ABC	#3/0 ACSR	7.47Y	124.5	0.01	0.47	12.21	4	246	119	90	0.02	0.0	3.360	0.062	0	0	0	34
PL.36351	PL.36831	ABC	#3/0 ACSR	7.47Y	124.5	0.01	0.47	6.35	2	128	62	90	0.01	0.0	3.454	0.094	12	6	1	14
PL.34787	PL.36351	C	#4 ACSR	7.47Y	124.5	0.00	0.48	1.19	1	8	4	89	0.00	0.0	3.531	0.077	8	4	1	1
PL.36352	PL.36351	ABC	#3/0 ACSR	7.47Y	124.5	0.00	0.48	5.38	2	109	53	90	0.00	0.0	3.515	0.061	8	4	1	12
PL.35333	PL.36352	B	#2 ACSR	7.47Y	124.5	0.00	0.48	0.00	0	0	0	100	0.00	0.0	3.516	0.001	0	0	0	0
PD.5811	PL.35333	B	40QA	7.47Y	124.5	0.00	0.48	0.00	0	0	0	100	0.00	0.0	3.516	0.001	0	0	0	0
PL.35334	PD.5811	B	#2 ACSR	7.47Y	124.5	0.00	0.48	0.00	0	0	0	100	0.00	0.0	3.548	0.032	0	0	0	0
PL.34040	PL.36352	B	#2 ACSR	7.47Y	124.5	0.00	0.48	1.79	1	12	6	89	0.00	0.0	3.539	0.024	12	6	1	1
PL.59328	PL.36352	ABC	#3/0 ACSR	7.47Y	124.5	0.00	0.48	4.40	1	89	43	90	0.00	0.0	3.600	0.085	14	7	2	10
PL.62252	PL.59328	ABC	#3/0 ACSR	7.47Y	124.5	0.00	0.49	2.62	1	53	26	90	0.00	0.0	3.688	0.088	10	5	1	6
PL.62253	PL.62252	B	6 A (CWC)	7.47Y	124.5	0.00	0.49	2.48	2	17	8	90	0.00	0.0	3.688	0.000	0	0	0	1
PD.5814	PL.62253	B	60QA	7.47Y	124.5	0.00	0.49	2.48	4	17	8	90	0.00	0.0	3.688	0.000	0	0	0	1
PL.35332	PD.5814	B	6 A (CWC)	7.47Y	124.5	0.00	0.49	2.48	2	17	8	90	0.00	0.0	3.744	0.056	17	8	1	1
PL.62254	PL.62252	A	#2 ACSR	7.47Y	124.5	0.00	0.49	3.83	2	26	12	91	0.00	0.0	3.688	0.001	0	0	0	4
PD.8760	PL.62254	A	60QA	7.47Y	124.5	0.00	0.49	3.83	6	26	12	91	0.00	0.0	3.688	0.001	0	0	0	4
PL.59330	PD.8760	A	#2 ACSR	7.47Y	124.5	0.00	0.49	3.83	2	26	12	91	0.00	0.0	3.704	0.016	11	5	2	4
PL.33874	PL.59330	A	#2 ACSR	7.47Y	124.5	0.01	0.49	2.15	1	14	7	89	0.00	0.0	3.792	0.088	0	0	1	2
PL.35331	PL.33874	A	#2 ACSR	7.47Y	124.5	0.00	0.50	2.14	1	14	7	89	0.00	0.0	3.844	0.053	14	7	1	1
PL.62255	PL.62252	ABC	#3/0 ACSR	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	3.716	0.028	0	0	0	0
PD.9302-A	PL.62255	ABC	Open	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	3.716	0.028	0	0	0	0
PL.59329	PL.59328	B	#2 ACSR	7.47Y	124.5	0.00	0.48	3.25	2	22	11	89	0.00	0.0	3.601	0.001	0	0	0	2
PD.5726	PL.59329	B	20T	7.47Y	124.5	0.00	0.48	3.25	0	22	11	89	0.00	0.0	3.601	0.001	0	0	0	2
PL.34724	PD.5726	B	#2 ACSR	7.47Y	124.5	0.00	0.49	3.25	2	22	11	89	0.00	0.0	3.624	0.023	22	11	2	2
PL.33416	PL.36831	C	6 A (CWC)	7.47Y	124.4	0.11	0.58	13.92	10	94	45	90	0.08	0.1	3.539	0.179	12	6	2	15
PL.60619	PL.33416	C	6 A (CWC)	7.46Y	124.4	0.01	0.58	12.16	9	82	40	90	0.00	0.0	3.553	0.014	8	4	4	13

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

Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.60620	PL.60619	C	#1/0 ACSR	7.46Y	124.4	0.00	0.59	1.11	0	7	4	87	0.00	0.0	3.593	0.040	7	4	1	1
PL.63331	PL.60619	C	6 A (CWC)	7.46Y	124.4	0.01	0.60	9.91	7	67	32	90	0.01	0.0	3.594	0.041	31	15	2	8
PL.63332	PL.63331	C	6 A (CWC)	7.46Y	124.4	0.00	0.60	5.27	4	35	17	90	0.00	0.0	3.616	0.021	12	6	1	6
PL.63333	PL.63332	C	6 A (CWC)	7.46Y	124.4	0.00	0.61	1.43	1	10	5	89	0.00	0.0	3.634	0.018	0	0	0	1
PL.63330	PL.63333	C	6 A (CWC)	7.46Y	124.4	0.00	0.61	1.43	1	10	5	89	0.00	0.0	3.649	0.015	10	5	1	1
PL.63334	PL.63332	C	#1/0 ACSR	7.46Y	124.4	0.00	0.61	2.07	1	14	7	89	0.00	0.0	3.637	0.021	0	0	3	4
PL.63335	PL.63334	C	#1/0 ACSR	7.46Y	124.4	0.00	0.61	2.07	1	14	7	89	0.00	0.0	3.658	0.021	14	7	1	1
PL.35029	PL.36831	A	6 A (CWC)	7.47Y	124.5	0.01	0.47	3.64	3	24	12	89	0.00	0.0	3.425	0.065	24	12	5	5
PL.34471	PL.36829	A	6 A (CWC)	7.47Y	124.6	0.01	0.45	3.26	2	22	11	89	0.00	0.0	3.306	0.073	22	11	2	2
PL.36827	PL.36823	C	6 A (CWC)	7.48Y	124.7	0.00	0.25	0.60	0	4	2	89	0.00	0.0	2.877	0.001	0	0	0	1
PD.5813	PL.36827	C	50QA	7.48Y	124.7	0.00	0.25	0.60	1	4	2	89	0.00	0.0	2.877	0.001	0	0	0	1
PL.36828	PD.5813	C	6 A (CWC)	7.48Y	124.7	0.00	0.25	0.60	0	4	2	89	0.00	0.0	2.897	0.019	4	2	1	1
PL.63796	PL.51868	A	#1/0 ACSR	7.51Y	125.1	0.00	-0.10	0.05	0	0	0	100	0.00	0.0	2.602	0.003	0	0	0	1
PD.9483	PL.63796	A	20T	7.51Y	125.1	0.00	-0.10	0.05	0	0	0	100	0.00	0.0	2.602	0.003	0	0	0	1
PL.63797	PD.9483	A	#1/0 ACSR	7.51Y	125.1	0.00	-0.10	0.05	0	0	0	100	0.00	0.0	2.625	0.023	0	0	1	1
PL.57588	PL.57586	C	6 A (CWC)	7.19Y	119.8	0.00	5.21	2.24	2	14	7	89	0.00	0.0	1.879	0.001	0	0	0	5
PD.8380	PL.57588	C	15QA	7.19Y	119.8	0.00	5.21	2.24	0	14	7	89	0.00	0.0	1.879	0.001	0	0	0	5
PL.60622	PD.8380	C	6 A (CWC)	7.19Y	119.8	0.00	5.22	2.24	2	14	7	89	0.00	0.0	1.903	0.024	0	0	0	5
PL.60624	PL.60622	C	1/0 AL URD	7.19Y	119.8	0.00	5.22	1.47	1	10	5	89	0.00	0.0	1.918	0.015	10	5	2	2
PL.60623	PL.60622	C	6 A (CWC)	7.19Y	119.8	0.00	5.22	0.77	1	5	2	93	0.00	0.0	1.946	0.043	5	2	3	3
PL.63114	PL.60623	C	#1/0 ACSR	7.19Y	119.8	0.00	5.22	0.00	0	0	0	100	0.00	0.0	1.990	0.044	0	0	0	0
PL.72487	PL.72488	C	#1/0 ACSR	7.20Y	120.0	0.00	5.01	0.00	0	0	0	100	0.00	0.0	1.751	0.019	0	0	0	0
CP.102	PL.62936	ABC	Cap (600)	7.23Y	120.5	0.00	4.52	0.00	0	0	0	100	0.00	0.0	1.523	0.019	0	0	0	0
PL.52160	PL.36050	C	6 A (CWC)	7.23Y	120.6	0.00	4.44	0.11	0	1	0	100	0.00	0.0	1.519	0.024	1	0	1	2
PL.52161	PL.52160	C	6 A (CWC)	7.23Y	120.6	0.00	4.44	0.01	0	0	0	100	0.00	0.0	1.582	0.064	0	0	1	1
PL.54129	PL.35509	C	6 A (CWC)	7.31Y	121.9	0.00	3.14	3.31	2	22	11	89	0.00	0.0	1.055	0.002	0	0	0	3
PD.8127	PL.54129	C	40QA	7.31Y	121.9	0.00	3.14	3.31	8	22	11	89	0.00	0.0	1.055	0.002	0	0	0	3
PL.54130	PD.8127	C	6 A (CWC)	7.31Y	121.9	0.00	3.14	3.31	2	22	11	89	0.00	0.0	1.072	0.017	0	0	1	3
PL.35718	PL.54130	C	6 A (CWC)	7.31Y	121.8	0.01	3.15	3.30	2	22	11	89	0.00	0.0	1.144	0.072	22	11	2	2
PL.54131	PL.35509	B	6 A (CWC)	7.31Y	121.9	0.01	3.15	41.93	30	276	134	90	0.01	0.0	1.055	0.003	0	0	0	38
PD.8128	PL.54131	B	50T	7.31Y	121.9	0.00	3.15	41.93	0	276	134	90	0.00	0.0	1.055	0.003	0	0	0	38

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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.54132	PD.8128	B	#1/0 ACSR	7.31Y	121.8	0.08	3.22	41.93	18	276	134	90	0.13	0.0	1.126	0.071	6	3	2	38
PL.36157	PL.54132	B	#1/0 ACSR	7.30Y	121.7	0.09	3.31	41.02	18	270	131	90	0.15	0.1	1.207	0.081	2	1	1	36
PL.36158	PL.36157	B	#1/0 ACSR	7.30Y	121.6	0.07	3.38	36.04	16	237	115	90	0.11	0.0	1.287	0.080	0	0	0	33
PL.36156	PL.36158	B	#1/0 ACSR	7.29Y	121.5	0.07	3.46	34.02	15	223	109	90	0.10	0.0	1.375	0.088	19	9	3	32
PL.54135	PL.36156	B	#4 ACSR	7.29Y	121.5	0.00	3.46	2.37	2	16	8	89	0.00	0.0	1.379	0.004	0	0	0	3
PD.8130	PL.54135	B	40QA	7.29Y	121.5	0.00	3.46	2.37	6	16	8	89	0.00	0.0	1.379	0.004	0	0	0	3
PL.54136	PD.8130	B	#4 ACSR	7.29Y	121.5	0.01	3.46	2.37	2	16	8	89	0.00	0.0	1.431	0.052	2	1	1	3
PL.36155	PL.54136	B	#4 ACSR	7.29Y	121.5	0.00	3.46	2.07	2	14	7	89	0.00	0.0	1.501	0.071	14	7	2	2
PL.54133	PL.36156	B	#1/0 ACSR	7.29Y	121.5	0.00	3.46	28.79	13	189	92	90	0.00	0.0	1.379	0.004	0	0	0	26
PD.8129	PL.54133	B	30T	7.29Y	121.5	0.00	3.46	28.79	0	189	92	90	0.00	0.0	1.379	0.004	0	0	0	26
PL.54134	PD.8129	B	#1/0 ACSR	7.29Y	121.5	0.02	3.48	28.79	13	189	92	90	0.03	0.0	1.413	0.034	6	3	1	26
PL.35723	PL.54134	B	#1/0 ACSR	7.29Y	121.4	0.07	3.56	25.50	11	167	81	90	0.08	0.0	1.528	0.114	0	0	0	22
PL.36159	PL.35723	B	#4 ACSR	7.29Y	121.4	0.01	3.57	5.32	4	35	17	90	0.00	0.0	1.599	0.072	30	15	3	4
PL.35849	PL.36159	B	#4 ACSR	7.29Y	121.4	0.00	3.57	0.68	1	4	2	89	0.00	0.0	1.655	0.055	4	2	1	1
PL.36667	PL.35723	B	#1/0 ACSR	7.28Y	121.4	0.03	3.59	18.83	8	123	60	90	0.02	0.0	1.586	0.058	1	0	1	16
PL.60699	PL.36667	B	#1/0 ACSR	7.28Y	121.4	0.00	3.59	0.31	0	2	1	89	0.00	0.0	1.589	0.004	0	0	0	1
PD.9092	PL.60699	B	15T	7.28Y	121.4	0.00	3.59	0.31	0	2	1	89	0.00	0.0	1.589	0.004	0	0	0	1
PL.72529	PD.9092	B	#1/0 ACSR	7.28Y	121.4	0.00	3.59	0.31	0	2	1	89	0.00	0.0	1.612	0.022	0	0	0	1
PL.72530	PL.72529	B	#1/0 ACSR	7.28Y	121.4	0.00	3.59	0.31	0	2	1	89	0.00	0.0	1.766	0.154	2	1	1	1
PL.62415	PL.36667	B	#1/0 ACSR	7.28Y	121.4	0.03	3.61	18.41	8	121	59	90	0.02	0.0	1.640	0.054	0	0	1	14
PL.62416	PL.62415	B	#1/0 ACSR	7.28Y	121.3	0.05	3.66	18.38	8	120	58	90	0.04	0.0	1.739	0.098	0	0	0	13
PL.62417	PL.62416	B	#1/0 ACSR	7.28Y	121.3	0.09	3.75	18.38	8	120	58	90	0.07	0.1	1.922	0.184	0	0	0	13
PL.62418	PL.62417	B	#1/0 ACSR	7.27Y	121.2	0.04	3.79	18.38	8	120	58	90	0.03	0.0	2.011	0.088	0	0	0	13
PL.62419	PL.62418	B	#1/0 ACSR	7.27Y	121.2	0.04	3.83	18.38	8	120	58	90	0.03	0.0	2.092	0.081	0	0	0	13
PL.62420	PL.62419	B	#1/0 ACSR	7.27Y	121.1	0.03	3.85	18.38	8	120	58	90	0.02	0.0	2.146	0.054	0	0	0	13
PL.62949	PL.62420	B	#1/0 ACSR	7.27Y	121.1	0.02	3.87	18.38	8	120	58	90	0.02	0.0	2.192	0.046	6	3	1	13
PL.62950	PL.62949	B	#1/0 ACSR	7.27Y	121.1	0.02	3.89	15.92	7	104	50	90	0.01	0.0	2.237	0.044	14	7	1	11
PL.36524	PL.62950	B	#1/0 ACSR	7.27Y	121.1	0.02	3.91	13.82	6	90	44	90	0.01	0.0	2.310	0.073	18	9	1	10
PL.35850	PL.36524	B	#1/0 ACSR	7.26Y	121.1	0.01	3.92	11.14	5	73	35	90	0.00	0.0	2.332	0.022	0	0	0	9
PL.35102	PL.35850	B	6 A (CWC)	7.26Y	121.1	0.00	3.92	0.76	1	5	2	93	0.00	0.0	2.406	0.075	5	2	2	2
PL.35851	PL.35850	B	6 A (CWC)	7.26Y	121.0	0.08	3.99	10.38	7	68	33	90	0.04	0.1	2.485	0.153	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: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62952	PL.35851	B	6 A (CWC)	7.26Y	121.0	0.01	4.00	10.38	7	68	33	90	0.01	0.0	2.507	0.022	10	5	2	7
PL.62953	PL.62952	B	6 A (CWC)	7.26Y	121.0	0.04	4.04	8.88	6	58	28	90	0.02	0.0	2.610	0.104	10	5	1	5
PL.62951	PL.62953	B	6 A (CWC)	7.26Y	121.0	0.00	4.05	1.57	1	10	5	89	0.00	0.0	2.635	0.025	10	5	1	1
PL.62954	PL.62953	B	6 A (CWC)	7.26Y	120.9	0.02	4.06	5.75	4	38	18	90	0.00	0.0	2.720	0.110	38	18	3	3
PL.34629	PL.35851	B	#4 ACSR	7.26Y	121.0	0.00	3.99	0.00	0	0	0	100	0.00	0.0	2.651	0.166	0	0	0	0
PL.62948	PL.62949	B	#2 ACSR	7.27Y	121.1	0.00	3.87	1.52	1	10	5	89	0.00	0.0	2.208	0.016	0	0	0	1
PL.62947	PL.62948	B	#1/0 ACSR	7.27Y	121.1	0.00	3.87	1.52	1	10	5	89	0.00	0.0	2.221	0.013	10	5	1	1
PL.35319	PL.35723	B	#4 ACSR	7.29Y	121.4	0.00	3.56	1.34	1	9	4	91	0.00	0.0	1.648	0.120	9	4	2	2
PL.33759	PL.54134	B	#4 ACSR	7.29Y	121.5	0.00	3.49	1.87	1	12	6	89	0.00	0.0	1.458	0.045	4	2	1	2
PL.33760	PL.33759	B	#4 ACSR	7.29Y	121.5	0.00	3.49	1.22	1	8	4	89	0.00	0.0	1.469	0.011	8	4	1	1
PL.33669	PL.54134	B	#2 ACSR	7.29Y	121.5	0.00	3.48	0.45	0	3	1	95	0.00	0.0	1.428	0.015	3	1	1	1
PL.35251	PL.36158	B	#2 ACSR	7.30Y	121.6	0.00	3.38	2.02	1	13	6	91	0.00	0.0	1.309	0.021	13	6	1	1
PL.34628	PL.36157	B	#4 ACSR	7.30Y	121.7	0.01	3.31	2.85	2	19	9	90	0.00	0.0	1.315	0.108	19	9	1	1
PL.64295	PL.36157	B	#1/0 ACSR	7.30Y	121.7	0.00	3.31	1.87	1	12	6	89	0.00	0.0	1.223	0.016	12	6	1	1
PL.36186	PL.36188	A	6 A (CWC)	7.34Y	122.4	0.00	2.63	2.17	2	14	7	89	0.00	0.0	0.898	0.001	0	0	0	1
PD.5108	PL.36186	A	30QA	7.34Y	122.4	0.00	2.63	2.17	7	14	7	89	0.00	0.0	0.898	0.001	0	0	0	1
PL.36187	PD.5108	A	6 A (CWC)	7.34Y	122.4	0.00	2.63	2.17	2	14	7	89	0.00	0.0	0.947	0.048	14	7	1	1
PL.33735	PL.33733	A	6 A (CWC)	7.50Y	124.9	0.00	0.07	10.87	8	73	36	90	0.00	0.0	0.061	0.002	0	0	0	7
PD.5852	PL.33735	A	40QA	7.50Y	124.9	0.00	0.07	10.87	27	73	36	90	0.00	0.0	0.061	0.002	0	0	0	7
PL.36169	PD.5852	A	6 A (CWC)	7.49Y	124.9	0.02	0.09	10.87	8	73	36	90	0.01	0.0	0.120	0.058	35	17	3	7
PL.34349	PL.36169	A	6 A (CWC)	7.49Y	124.9	0.02	0.11	5.69	4	38	19	89	0.01	0.0	0.222	0.102	14	7	1	4
PL.36152	PL.34349	A	6 A (CWC)	7.49Y	124.9	0.00	0.12	3.64	3	25	12	90	0.00	0.0	0.255	0.033	14	7	1	3
PL.34348	PL.36152	A	6 A (CWC)	7.49Y	124.9	0.00	0.12	1.62	1	11	5	91	0.00	0.0	0.268	0.013	11	5	2	2

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	10259	0	0	0	0	0	214	0.00	10473
KVAR	3095	0	0	0	0	0	370		3465

Lowest Voltage = 118.17 on Element PL.36644
Max Accm VoltD = 6.83 on Element PL.36644
Max Elem VoltD = 1.34 on Element PL.35725

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Balanced Voltage Drop Report
Source: Laurel Ind 1

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

Units Displayed In Volts
-Base Voltage:120.0-

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