Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
Keavy 2		ABC	SRC-Keavy	7.50Y	125.0	0.00	0.00	589.42	0	12594	4155	95	0.00	0.0	0.000	0.000	0	0	0	1487
PL.59428	Keavy 2	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	190.39	37	4081	1304	95	0.08	0.0	0.003	0.003	0	0	0	458
PL.59420	PL.59428	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	190.39	37	4081	1303	95	0.08	0.0	0.005	0.003	0	0	0	458
---------- Feeder No. 3 (Level Green F3) Beginning with Device PD.8768 ----------																				
PD.8768	PL.59420	ABC	400VWE	7.50Y	125.0	0.00	0.01	190.39	0	4080	1303	95	0.00	0.0	0.005	0.003	0	0	0	458
PL.59285	PD.8768	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	190.39	37	4080	1303	95	0.10	0.0	0.008	0.003	0	0	1	458
PL.59286	PL.59285	ABC	336 MCM AC	7.47Y	124.5	0.49	0.50	190.39	37	4080	1303	95	10.12	0.2	0.340	0.332	8	2	1	457
PL.42177	PL.59286	ABC	336 MCM AC	7.45Y	124.2	0.28	0.78	190.00	37	4062	1277	95	5.77	0.1	0.530	0.190	0	0	0	456
PL.42179	PL.42177	C	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.00	0	0	0	100	0.00	0.0	0.536	0.006	0	0	0	0
PD.6643	PL.42179	C	75QA	7.45Y	124.2	0.00	0.78	0.00	0	0	0	100	0.00	0.0	0.536	0.006	0	0	0	0
PL.56489	PD.6643	C	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.00	0	0	0	100	0.00	0.0	0.567	0.031	0	0	0	0
PL.57174	PL.56489	C	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.00	0	0	0	100	0.00	0.0	0.651	0.084	0	0	0	0
PL.42178	PL.42177	ABC	336 MCM AC	7.45Y	124.1	0.10	0.88	190.00	37	4056	1264	95	2.02	0.0	0.597	0.067	12	3	2	456
PL.41280	PL.42178	ABC	6 A (CWC)	7.45Y	124.1	0.01	0.88	3.05	2	61	30	90	0.00	0.0	0.640	0.043	0	0	0	1
PL.41893	PL.41280	C	1/0 AL URD	7.45Y	124.1	0.00	0.89	9.15	5	61	30	90	0.00	0.0	0.646	0.006	0	0	0	1
PD.6477	PL.41893	C	60QA	7.45Y	124.1	0.00	0.89	9.15	15	61	30	90	0.00	0.0	0.646	0.006	0	0	0	1
PL.41894	PD.6477	C	1/0 AL URD	7.45Y	124.1	0.00	0.89	9.15	5	61	30	90	0.00	0.0	0.661	0.015	61	30	1	1
PL.41895	PL.42178	ABC	336 MCM AC	7.45Y	124.1	0.04	0.92	186.45	36	3981	1226	96	0.76	0.0	0.623	0.026	0	0	0	453
PL.41896	PL.41895	ABC	#4 ACSR	7.45Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	0.628	0.006	0	0	0	0
PD.6644	PL.41896	ABC	20QA	7.45Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	0.628	0.006	0	0	0	0
PL.41897	PD.6644	ABC	#4 ACSR	7.45Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	0.666	0.037	0	0	0	0
PL.56653	PL.41895	ABC	336 MCM AC	7.43Y	123.8	0.28	1.19	186.45	36	3980	1224	96	5.71	0.1	0.818	0.195	2	1	1	453
PL.56654	PL.56653	ABC	336 MCM AC	7.42Y	123.7	0.07	1.26	186.36	36	3973	1211	96	1.39	0.0	0.865	0.047	0	0	0	452
PL.58931	PL.56654	ABC	336 MCM AC	7.41Y	123.5	0.26	1.53	186.36	36	3971	1207	96	5.41	0.1	1.050	0.185	9	2	1	452
PL.62343	PL.58931	ABC	336 MCM AC	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	1.050	0.000	0	0	0	0
PD.9332	PL.62343	C	30T	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	1.050	0.000	0	0	0	0
PL.62346	PD.9332	C	6 A (CWC)	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	1.051	0.000	0	0	0	0
PL.62344	PL.62346	C	6 A (CWC)	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	1.088	0.037	0	0	0	0
PL.62345	PL.62346	C	6 A (CWC)	7.41Y	123.5	0.00	1.53	0.00	0	0	0	100	0.00	0.0	1.120	0.069	0	0	0	0
PL.59363	PL.58931	ABC	336 MCM AC	7.40Y	123.3	0.14	1.66	185.92	36	3956	1192	96	2.80	0.1	1.147	0.096	11	3	1	451

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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.59365	PL.59363	ABC	#3/0 ACSR	7.39Y	123.1	0.24	1.90	169.84	57	3608	1094	96	5.34	0.1	1.257	0.111	22	6	2	406
PL.56225	PL.59365	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	1.69	1	12	3	97	0.00	0.0	1.263	0.006	0	0	0	1
PD.8315	PL.56225	A	60QA	7.39Y	123.1	0.00	1.90	1.69	3	12	3	97	0.00	0.0	1.263	0.006	0	0	0	1
PL.56226	PD.8315	A	6 A (CWC)	7.39Y	123.1	0.00	1.91	1.69	1	12	3	97	0.00	0.0	1.320	0.057	12	3	1	1
PL.56501	PL.59365	ABC	#3/0 ACSR	7.38Y	123.0	0.15	2.05	168.27	56	3569	1077	96	3.20	0.1	1.325	0.067	8	2	1	403
PL.56502	PL.56501	ABC	#3/0 ACSR	7.37Y	122.8	0.12	2.17	167.89	56	3558	1070	96	2.68	0.1	1.381	0.057	14	4	3	402
PL.41784	PL.56502	ABC	#3/0 ACSR	7.36Y	122.7	0.14	2.31	167.23	56	3541	1063	96	3.08	0.1	1.447	0.066	13	4	1	399
PL.56504	PL.41784	ABC	#3/0 ACSR	7.35Y	122.5	0.21	2.52	166.61	56	3525	1055	96	4.59	0.1	1.546	0.098	6	2	1	398
PL.56726	PL.56504	A	6 A (CWC)	7.35Y	122.5	0.00	2.52	0.63	0	4	1	97	0.00	0.0	1.573	0.028	0	0	0	1
PL.56725	PL.56726	A	#1/0 ACSR	7.35Y	122.5	0.00	2.52	0.63	0	4	1	97	0.00	0.0	1.777	0.204	4	1	1	1
PL.56730	PL.56726	A	6 A (CWC)	7.35Y	122.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	1.610	0.037	0	0	0	0
PL.56505	PL.56504	A	6 A (CWC)	7.35Y	122.5	0.00	2.52	1.59	1	11	3	96	0.00	0.0	1.551	0.006	0	0	0	1
PD.6766	PL.56505	A	60QA	7.35Y	122.5	0.00	2.52	1.59	3	11	3	96	0.00	0.0	1.551	0.006	0	0	0	1
PL.56224	PD.6766	A	6 A (CWC)	7.35Y	122.5	0.00	2.52	1.59	1	11	3	96	0.00	0.0	1.588	0.036	11	3	1	1
PL.56506	PL.56504	ABC	#3/0 ACSR	7.34Y	122.3	0.22	2.74	165.58	55	3498	1042	96	4.72	0.1	1.648	0.103	9	2	1	395
PL.41786	PL.56506	ABC	#3/0 ACSR	7.32Y	122.0	0.21	2.95	163.93	55	3458	1026	96	4.58	0.1	1.750	0.101	0	0	0	391
PL.42532	PL.41786	ABC	#3/0 ACSR	7.32Y	122.0	0.06	3.01	162.57	54	3425	1012	96	1.26	0.0	1.778	0.028	7	2	1	389
PL.42533	PL.42532	ABC	#3/0 ACSR	7.31Y	121.9	0.11	3.12	162.22	54	3416	1008	96	2.35	0.1	1.831	0.053	11	3	1	388
PL.42534	PL.42533	B	6 A (CWC)	7.31Y	121.9	0.01	3.13	26.16	19	185	49	97	0.01	0.0	1.837	0.006	0	0	0	24
PD.6612	PL.42534	B	60QA	7.31Y	121.9	0.00	3.13	26.16	44	185	49	97	0.00	0.0	1.837	0.006	0	0	0	24
PL.57978	PD.6612	B	6 A (CWC)	7.31Y	121.8	0.12	3.25	26.16	19	185	49	97	0.16	0.1	1.949	0.112	34	9	3	24
PL.61173	PL.57978	B	1/0 AL URD	7.30Y	121.7	0.00	3.25	1.02	1	7	2	96	0.00	0.0	1.983	0.034	0	0	0	2
PL.61174	PL.61173	B	1/0 AL URD	7.30Y	121.7	0.00	3.25	1.02	1	7	2	96	0.00	0.0	2.062	0.079	7	2	2	2
PL.57980	PL.57978	B	6 A (CWC)	7.30Y	121.7	0.04	3.28	20.38	15	144	38	97	0.04	0.0	1.987	0.038	0	0	0	19
PL.57981	PL.57980	B	6 A (CWC)	7.30Y	121.6	0.09	3.37	16.48	12	116	31	97	0.07	0.1	2.107	0.120	12	3	1	16
PL.57979	PL.57981	B	6 A (CWC)	7.30Y	121.6	0.04	3.41	12.85	9	91	24	97	0.02	0.0	2.177	0.070	19	5	1	14
PL.56930	PL.57979	B	6 A (CWC)	7.29Y	121.6	0.02	3.43	10.15	7	72	19	97	0.01	0.0	2.221	0.044	9	2	1	13
PL.56931	PL.56930	B	6 A (CWC)	7.29Y	121.5	0.02	3.45	8.93	6	63	17	97	0.01	0.0	2.291	0.070	18	5	2	12
PL.56932	PL.56931	B	6 A (CWC)	7.29Y	121.5	0.01	3.46	6.37	5	45	12	97	0.00	0.0	2.327	0.036	0	0	0	10
PL.56708	PL.56932	B	6 A (CWC)	7.29Y	121.5	0.01	3.48	5.86	4	41	11	97	0.00	0.0	2.381	0.054	0	0	0	8
PL.56709	PL.56708	B	6 A (CWC)	7.29Y	121.5	0.00	3.48	2.18	2	15	4	97	0.00	0.0	2.433	0.052	6	2	3	5

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.56707	PL.56709	B	#2 ACSR	7.29Y	121.5	0.00	3.48	1.34	1	9	2	98	0.00	0.0	2.480	0.047	9	2	2	2
PL.56706	PL.56709	B	6 A (CWC)	7.29Y	121.5	0.00	3.48	0.00	0	0	0	100	0.00	0.0	2.447	0.014	0	0	0	0
PL.56710	PL.56708	B	#1/0 ACSR	7.29Y	121.5	0.00	3.48	3.68	2	26	7	97	0.00	0.0	2.406	0.025	0	0	0	3
PL.56711	PL.56710	B	#1/0 ACSR	7.29Y	121.5	0.00	3.48	3.68	2	26	7	97	0.00	0.0	2.429	0.023	10	3	1	3
PL.62033	PL.56711	B	#1/0 ACSR	7.29Y	121.5	0.01	3.48	2.31	1	16	4	97	0.00	0.0	2.547	0.118	6	1	1	2
PL.62034	PL.62033	B	#1/0 ACSR	7.29Y	121.5	0.00	3.49	1.51	1	11	3	96	0.00	0.0	2.619	0.072	11	3	1	1
PL.56705	PL.56932	B	#1/0 ACSR	7.29Y	121.5	0.00	3.46	0.51	0	4	1	97	0.00	0.0	2.370	0.043	4	1	2	2
PL.72484	PL.57979	B	#2 ACSR	7.30Y	121.6	0.00	3.41	0.00	0	0	0	100	0.00	0.0	2.201	0.023	0	0	0	0
PL.57977	PL.57981	B	#4 ACSR	7.30Y	121.6	0.00	3.37	1.88	1	13	4	96	0.00	0.0	2.140	0.033	13	4	1	1
PL.57982	PL.57980	B	4/0 AL URD	7.30Y	121.7	0.00	3.28	3.89	2	28	7	97	0.00	0.0	1.987	0.000	18	5	2	3
PL.63222	PL.57982	B	1/0 AL URD	7.30Y	121.7	0.00	3.29	1.41	1	10	3	96	0.00	0.0	2.033	0.047	0	0	0	1
PL.63472	PL.63222	B	1/0 AL URD	7.30Y	121.7	0.00	3.29	1.41	1	10	3	96	0.00	0.0	2.117	0.083	0	0	0	1
PL.63473	PL.63472	B	1/0 AL URD	7.30Y	121.7	0.00	3.29	1.41	1	10	3	96	0.00	0.0	2.117	0.000	10	3	1	1
PL.56961	PL.42533	ABC	#3/0 ACSR	7.30Y	121.6	0.29	3.41	152.98	51	3218	953	96	5.76	0.2	1.978	0.147	11	3	1	363
PL.56962	PL.56961	ABC	#3/0 ACSR	7.29Y	121.5	0.14	3.54	152.16	51	3195	940	96	2.73	0.1	2.048	0.070	0	0	0	360
PL.56934	PL.56962	A	#4 ACSR	7.29Y	121.5	0.00	3.55	3.35	3	24	6	97	0.00	0.0	2.054	0.006	0	0	0	2
PD.8335	PL.56934	A	20QA	7.29Y	121.5	0.00	3.55	3.35	17	24	6	97	0.00	0.0	2.054	0.006	0	0	0	2
PL.56927	PD.8335	A	#4 ACSR	7.29Y	121.4	0.01	3.55	3.35	3	24	6	97	0.00	0.0	2.115	0.060	0	0	0	2
PL.56926	PL.56927	A	#4 ACSR	7.29Y	121.4	0.00	3.56	3.35	3	24	6	97	0.00	0.0	2.142	0.027	24	6	2	2
PL.42037	PL.56962	ABC	#1/0 ACSR	7.27Y	121.2	0.23	3.78	108.22	47	2264	688	96	3.68	0.2	2.166	0.118	5	1	1	253
PL.56734	PL.42037	ABC	#1/0 ACSR	7.26Y	121.0	0.20	3.98	107.81	47	2251	682	96	3.20	0.1	2.270	0.103	0	0	0	251
PL.56735	PL.56734	C	#4 ACSR	7.26Y	121.0	0.00	3.98	4.92	4	35	9	97	0.00	0.0	2.275	0.006	0	0	0	4
PD.6636	PL.56735	C	60QA	7.26Y	121.0	0.00	3.98	4.92	8	35	9	97	0.00	0.0	2.275	0.006	0	0	0	4
PL.42038	PD.6636	C	#4 ACSR	7.26Y	121.0	0.01	3.99	4.92	4	35	9	97	0.00	0.0	2.321	0.046	26	7	2	4
PL.42039	PL.42038	C	#4 ACSR	7.26Y	121.0	0.00	3.99	1.26	1	9	2	98	0.00	0.0	2.373	0.051	9	2	2	2
PL.56736	PL.56734	ABC	#1/0 ACSR	7.26Y	121.0	0.05	4.03	106.17	46	2214	670	96	0.79	0.0	2.296	0.026	1	0	1	247
PL.56724	PL.56736	ABC	#1/0 ACSR	7.25Y	120.8	0.18	4.21	106.13	46	2212	669	96	2.79	0.1	2.389	0.093	0	0	0	246
PL.56723	PL.56724	ABC	#1/0 ACSR	7.24Y	120.7	0.09	4.30	105.26	46	2191	661	96	1.34	0.1	2.434	0.046	11	3	1	243
PL.56490	PL.56723	ABC	#1/0 ACSR	7.24Y	120.6	0.07	4.37	104.75	46	2179	657	96	1.05	0.0	2.470	0.036	4	1	1	242
PL.58488	PL.56490	C	#4 ACSR	7.24Y	120.6	0.00	4.37	3.76	3	26	7	97	0.00	0.0	2.474	0.003	0	0	0	5
PD.8693	PL.58488	C	25T	7.24Y	120.6	0.00	4.37	3.76	0	26	7	97	0.00	0.0	2.474	0.003	0	0	0	5

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Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.58489	PD.8693	C	#4 ACSR	7.24Y	120.6	0.01	4.38	3.76	3	26	7	97	0.00	0.0	2.513	0.040	0	0	1	5
PL.58487	PL.58489	C	#4 ACSR	7.24Y	120.6	0.01	4.39	3.69	3	26	7	97	0.00	0.0	2.600	0.087	0	0	0	4
PL.52128	PL.58487	C	#4 ACSR	7.24Y	120.6	0.01	4.40	3.69	3	26	7	97	0.00	0.0	2.672	0.072	7	2	1	4
PL.62020	PL.52128	C	#4 ACSR	7.24Y	120.6	0.01	4.40	2.70	2	19	5	97	0.00	0.0	2.731	0.059	10	3	1	3
PL.62021	PL.62020	C	#4 ACSR	7.24Y	120.6	0.00	4.41	1.30	1	9	2	98	0.00	0.0	2.773	0.042	4	1	1	2
PL.62022	PL.62021	C	#4 ACSR	7.24Y	120.6	0.00	4.41	0.74	1	5	1	98	0.00	0.0	2.786	0.012	5	1	1	1
PL.52127	PL.58487	C	#4 ACSR	7.24Y	120.6	0.00	4.39	0.00	0	0	0	100	0.00	0.0	2.652	0.052	0	0	0	0
PL.56839	PL.56490	ABC	#1/0 ACSR	7.22Y	120.3	0.30	4.67	103.31	45	2147	648	96	4.56	0.2	2.631	0.160	0	0	1	236
PL.56840	PL.56839	ABC	#1/0 ACSR	7.21Y	120.2	0.09	4.76	102.69	45	2130	641	96	1.37	0.1	2.679	0.049	0	0	0	234
PL.52125	PL.56840	A	6 A (CWC)	7.21Y	120.2	0.01	4.77	2.65	2	18	5	96	0.00	0.0	2.799	0.119	18	5	3	3
PL.56922	PL.56840	ABC	#1/0 ACSR	7.20Y	120.0	0.22	4.98	101.81	44	2110	634	96	3.27	0.2	2.798	0.119	12	3	2	231
PL.56450	PL.56922	ABC	#1/0 ACSR	7.19Y	119.9	0.15	5.13	69.22	30	1426	450	95	1.53	0.1	2.918	0.120	0	0	0	138
PL.56451	PL.56450	ABC	#1/0 ACSR	7.19Y	119.8	0.08	5.21	34.79	15	725	194	97	0.40	0.1	3.041	0.123	0	0	0	85
PL.56951	PL.56451	ABC	#1/0 ACSR	7.19Y	119.8	0.01	5.23	34.79	15	725	194	97	0.07	0.0	3.063	0.022	0	0	0	85
PL.42155	PL.56951	ABC	#1/0 ACSR	7.19Y	119.8	0.00	5.23	34.79	15	725	194	97	0.02	0.0	3.069	0.006	0	0	0	85
PD.6804	PL.42155	ABC	100L	7.19Y	119.8	0.00	5.23	34.79	35	725	194	97	0.00	0.0	3.069	0.006	0	0	0	85
PL.42156	PD.6804	ABC	#1/0 ACSR	7.18Y	119.7	0.03	5.26	34.79	15	725	194	97	0.14	0.0	3.114	0.045	0	0	0	85
PL.42157	PL.42156	A	#4 ACSR	7.18Y	119.7	0.00	5.26	2.49	2	17	5	96	0.00	0.0	3.119	0.006	0	0	0	2
PD.6471	PL.42157	A	50QA	7.18Y	119.7	0.00	5.26	2.49	5	17	5	96	0.00	0.0	3.119	0.006	0	0	0	2
PL.56491	PD.6471	A	#4 ACSR	7.18Y	119.7	0.00	5.26	2.49	2	17	5	96	0.00	0.0	3.145	0.026	17	5	2	2
PL.42158	PL.42156	ABC	#1/0 ACSR	7.18Y	119.7	0.07	5.32	33.96	15	707	189	97	0.34	0.0	3.224	0.110	2	0	2	83
PL.42159	PL.42158	ABC	#1/0 ACSR	7.18Y	119.7	0.02	5.35	33.88	15	705	188	97	0.12	0.0	3.264	0.040	0	0	0	81
PL.42160	PL.42159	A	#4 ACSR	7.18Y	119.7	0.00	5.35	0.86	1	6	2	95	0.00	0.0	3.269	0.006	0	0	0	1
PD.6536	PL.42160	A	50QA	7.18Y	119.7	0.00	5.35	0.86	2	6	2	95	0.00	0.0	3.269	0.006	0	0	0	1
PL.42161	PD.6536	A	#4 ACSR	7.18Y	119.7	0.00	5.35	0.86	1	6	2	95	0.00	0.0	3.299	0.030	6	2	1	1
PL.42572	PL.42159	ABC	#1/0 ACSR	7.18Y	119.6	0.06	5.41	33.60	15	699	187	97	0.30	0.0	3.362	0.099	0	0	0	80
PL.41355	PL.42572	B	#4 ACSR	7.18Y	119.6	0.00	5.41	1.96	2	14	4	96	0.00	0.0	3.427	0.064	14	4	1	1
PL.42573	PL.42572	ABC	#1/0 ACSR	7.17Y	119.5	0.06	5.47	32.94	14	685	183	97	0.30	0.0	3.468	0.105	0	0	0	79
PL.42574	PL.42573	A	#4 ACSR	7.17Y	119.5	0.00	5.47	1.79	1	12	3	97	0.00	0.0	3.473	0.006	0	0	0	1
PD.6778	PL.42574	A	50QA	7.17Y	119.5	0.00	5.47	1.79	4	12	3	97	0.00	0.0	3.473	0.006	0	0	0	1
PL.57582	PD.6778	A	#4 ACSR	7.17Y	119.5	0.00	5.47	1.79	1	12	3	97	0.00	0.0	3.500	0.026	12	3	1	1

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42575	PL.42573	C	6 A (CWC)	7.17Y	119.5	0.00	5.47	5.48	4	38	10	97	0.00	0.0	3.473	0.006	0	0	0	4
PD.6705	PL.42575	C	50QA	7.17Y	119.5	0.00	5.47	5.48	11	38	10	97	0.00	0.0	3.473	0.006	0	0	0	4
PL.42576	PD.6705	C	6 A (CWC)	7.17Y	119.5	0.01	5.48	5.48	4	38	10	97	0.00	0.0	3.500	0.026	16	4	1	4
PL.42577	PL.42576	C	6 A (CWC)	7.17Y	119.5	0.00	5.48	3.20	2	22	6	96	0.00	0.0	3.563	0.063	22	6	3	3
PL.42578	PL.42573	ABC	#1/0 ACSR	7.17Y	119.5	0.02	5.49	30.52	13	635	169	97	0.11	0.0	3.512	0.044	7	2	1	74
PL.42579	PL.42578	ABC	#1/0 ACSR	7.17Y	119.5	0.01	5.51	30.17	13	627	167	97	0.05	0.0	3.534	0.022	5	1	1	73
PL.42581	PL.42579	ABC	#1/0 ACSR	7.17Y	119.5	0.02	5.52	29.94	13	622	166	97	0.08	0.0	3.568	0.034	0	0	0	72
PL.42580	PL.42581	C	#4 ACSR	7.17Y	119.5	0.00	5.52	1.36	1	9	2	98	0.00	0.0	3.574	0.006	0	0	0	1
PD.6446	PL.42580	C	50QA	7.17Y	119.5	0.00	5.52	1.36	3	9	2	98	0.00	0.0	3.574	0.006	0	0	0	1
PL.42582	PD.6446	C	#4 ACSR	7.17Y	119.5	0.00	5.53	1.36	1	9	2	98	0.00	0.0	3.624	0.050	0	0	0	1
PL.42583	PL.42582	C	#4 ACSR	7.17Y	119.5	0.00	5.53	1.36	1	9	2	98	0.00	0.0	3.668	0.044	9	2	1	1
PL.42584	PL.42581	ABC	#1/0 ACSR	7.17Y	119.5	0.02	5.54	29.48	13	613	163	97	0.07	0.0	3.597	0.029	0	0	0	71
PL.42585	PL.42584	A	6 A (CWC)	7.17Y	119.5	0.00	5.54	0.51	0	4	1	97	0.00	0.0	3.602	0.006	0	0	0	1
PD.6522	PL.42585	A	50QA	7.17Y	119.5	0.00	5.54	0.51	1	4	1	97	0.00	0.0	3.602	0.006	0	0	0	1
PL.42586	PD.6522	A	6 A (CWC)	7.17Y	119.5	0.00	5.54	0.51	0	4	1	97	0.00	0.0	3.668	0.066	4	1	1	1
PL.52711	PL.42584	ABC	#1/0 ACSR	7.17Y	119.4	0.01	5.55	29.31	13	609	162	97	0.06	0.0	3.622	0.026	0	0	0	70
PL.57184	PL.52711	ABC	#1/0 ACSR	7.17Y	119.4	0.02	5.57	29.31	13	609	162	97	0.10	0.0	3.665	0.042	0	0	0	70
PL.59378	PL.57184	ABC	#1/0 ACSR	7.16Y	119.4	0.05	5.62	26.76	12	556	148	97	0.18	0.0	3.761	0.097	8	2	1	65
PL.59379	PL.59378	A	#4 ACSR	7.16Y	119.4	0.00	5.62	4.94	4	34	9	97	0.00	0.0	3.767	0.006	0	0	0	4
PD.6539	PL.59379	A	20T	7.16Y	119.4	0.00	5.62	4.94	0	34	9	97	0.00	0.0	3.767	0.006	0	0	0	4
PL.57011	PD.6539	A	#4 ACSR	7.16Y	119.4	0.02	5.64	4.94	4	34	9	97	0.00	0.0	3.857	0.090	9	2	1	4
PL.57013	PL.57011	A	#4 ACSR	7.16Y	119.4	0.00	5.64	1.30	1	9	2	98	0.00	0.0	3.897	0.040	9	2	1	1
PL.57014	PL.57013	A	#4 ACSR	7.16Y	119.4	0.00	5.64	0.00	0	0	0	100	0.00	0.0	3.950	0.053	0	0	0	0
PL.57012	PL.57011	A	#2 ACSR	7.16Y	119.4	0.00	5.64	2.41	1	17	4	97	0.00	0.0	3.863	0.006	0	0	0	2
PD.6472	PL.57012	A	25QA	7.16Y	119.4	0.00	5.64	2.41	10	17	4	97	0.00	0.0	3.863	0.006	0	0	0	2
PL.57007	PD.6472	A	#2 ACSR	7.16Y	119.4	0.00	5.64	2.41	1	17	4	97	0.00	0.0	3.892	0.029	17	4	2	2
PL.59380	PL.59378	ABC	#1/0 ACSR	7.16Y	119.4	0.02	5.65	24.74	11	514	137	97	0.09	0.0	3.817	0.055	15	4	4	60
PL.57008	PL.59380	ABC	#1/0 ACSR	7.16Y	119.3	0.02	5.67	24.01	10	498	133	97	0.08	0.0	3.870	0.053	8	2	1	56
PL.56522	PL.57008	B	6 A (CWC)	7.16Y	119.3	0.05	5.72	69.09	49	478	127	97	0.18	0.0	3.885	0.015	0	0	0	54
PL.42587	PL.56522	B	6 A (CWC)	7.16Y	119.3	0.02	5.73	67.20	48	465	124	97	0.06	0.0	3.891	0.006	0	0	0	53
PD.6805	PL.42587	B	100L	7.16Y	119.3	0.00	5.73	67.20	67	465	124	97	0.00	0.0	3.891	0.006	0	0	0	53

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42588	PD.6805	B	6 A (CWC)	7.15Y	119.2	0.10	5.83	67.20	48	465	124	97	0.34	0.1	3.923	0.032	14	4	1	53
PL.42590	PL.42588	B	6 A (CWC)	7.14Y	119.1	0.10	5.93	60.16	43	416	111	97	0.29	0.1	3.960	0.037	48	13	5	46
PL.42591	PL.42590	B	6 A (CWC)	7.14Y	119.0	0.04	5.97	53.22	38	367	98	97	0.12	0.0	3.977	0.017	0	0	0	41
PL.42592	PL.42591	B	#4 ACSR	7.14Y	119.0	0.01	5.98	12.64	10	87	23	97	0.01	0.0	4.001	0.024	17	4	2	9
PL.42593	PL.42592	B	#4 ACSR	7.14Y	119.0	0.02	6.00	10.21	8	71	19	97	0.01	0.0	4.047	0.045	27	7	3	7
PL.56902	PL.42593	B	#4 ACSR	7.14Y	119.0	0.01	6.01	6.28	5	43	11	97	0.00	0.0	4.094	0.048	0	0	0	4
PL.56903	PL.56902	B	#4 ACSR	7.14Y	119.0	0.00	6.01	2.59	2	18	5	96	0.00	0.0	4.134	0.040	10	3	1	2
PL.42594	PL.56903	B	#4 ACSR	7.14Y	119.0	0.00	6.01	1.19	1	8	2	97	0.00	0.0	4.172	0.038	8	2	1	1
PL.56904	PL.56902	B	#4 ACSR	7.14Y	119.0	0.00	6.01	3.69	3	25	7	96	0.00	0.0	4.130	0.036	25	7	2	2
PL.62224	PL.42591	B	6 A (CWC)	7.14Y	118.9	0.11	6.08	40.58	29	280	75	97	0.24	0.1	4.038	0.061	13	4	3	32
PL.63461	PL.62224	B	6 A (CWC)	7.13Y	118.8	0.14	6.22	38.64	28	266	71	97	0.29	0.1	4.117	0.079	0	0	0	29
PL.63462	PL.63461	B	6 A (CWC)	7.11Y	118.5	0.25	6.47	36.38	26	251	67	97	0.48	0.2	4.267	0.150	0	0	0	28
PL.62225	PL.63462	B	#4 ACSR	7.11Y	118.5	0.00	6.47	1.52	1	10	3	96	0.00	0.0	4.322	0.055	1	0	1	2
PL.42595	PL.62225	B	#4 ACSR	7.11Y	118.5	0.00	6.47	1.41	1	10	3	96	0.00	0.0	4.354	0.032	10	3	1	1
PL.62226	PL.63462	B	6 A (CWC)	7.10Y	118.4	0.12	6.59	34.85	25	240	64	97	0.22	0.1	4.346	0.079	12	3	1	26
REG63	PL.62226	B	76.2 KVA	7.53Y	125.5	-7.06	-0.47	33.06	33	227	60	97	percent Boost= 0.00 Tap= 0.0							25
PL.57120	REG63	B	6 A (CWC)	7.52Y	125.4	0.08	-0.39	31.20	22	227	60	97	0.12	0.1	4.401	0.055	16	4	4	25
PL.57118	PL.57120	B	#4 ACSR	7.52Y	125.4	0.01	-0.38	9.76	8	71	19	97	0.01	0.0	4.438	0.037	15	4	1	6
PL.57114	PL.57118	B	#4 ACSR	7.52Y	125.4	0.01	-0.37	7.69	6	56	15	97	0.00	0.0	4.466	0.028	27	7	2	5
PL.57182	PL.57114	B	#2 ACSR	7.52Y	125.4	0.01	-0.36	4.03	2	29	8	96	0.00	0.0	4.536	0.070	13	4	1	3
PL.57183	PL.57182	B	#2 ACSR	7.52Y	125.4	0.00	-0.36	2.20	1	16	4	97	0.00	0.0	4.625	0.089	16	4	2	2
PL.56691	PL.57183	B	#4 ACSR	7.52Y	125.4	0.00	-0.36	0.00	0	0	0	100	0.00	0.0	4.671	0.046	0	0	0	0
PL.57119	PL.57120	B	#1/0 ACSR	7.52Y	125.4	0.00	-0.39	2.22	1	16	4	97	0.00	0.0	4.414	0.013	16	4	1	1
PL.57117	PL.57120	B	6 A (CWC)	7.52Y	125.3	0.10	-0.29	17.04	12	124	33	97	0.09	0.1	4.529	0.128	0	0	0	14
PL.57115	PL.57117	B	6 A (CWC)	7.52Y	125.3	0.00	-0.29	15.78	11	115	30	97	0.00	0.0	4.535	0.006	0	0	0	13
PD.6524	PL.57115	B	40QA	7.52Y	125.3	0.00	-0.29	15.78	39	115	30	97	0.00	0.0	4.535	0.006	0	0	0	13
PL.42196	PD.6524	B	6 A (CWC)	7.51Y	125.2	0.06	-0.23	15.78	11	115	30	97	0.05	0.0	4.618	0.083	0	0	0	13
PL.41831	PL.42196	B	#1/0 ACSR	7.51Y	125.2	0.00	-0.23	1.50	1	11	3	96	0.00	0.0	4.694	0.075	11	3	1	1
PL.42197	PL.42196	B	6 A (CWC)	7.51Y	125.1	0.14	-0.09	12.58	9	91	24	97	0.09	0.1	4.877	0.259	12	3	1	10
PL.56850	PL.42197	B	6 A (CWC)	7.50Y	125.0	0.06	-0.03	10.96	8	79	21	97	0.04	0.0	5.006	0.129	0	0	0	9
PL.61143	PL.56850	B	6 A (CWC)	7.50Y	125.0	0.00	-0.02	4.94	4	36	9	97	0.00	0.0	5.033	0.026	15	4	2	4

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.61144	PL.61143	B	6 A (CWC)	7.50Y	125.0	0.00	-0.02	1.32	1	10	3	96	0.00	0.0	5.066	0.033	10	3	1	1
PL.61145	PL.61144	B	6 A (CWC)	7.50Y	125.0	0.00	-0.02	0.00	0	0	0	100	0.00	0.0	5.124	0.058	0	0	0	0
PL.61142	PL.61143	B	6 A (CWC)	7.50Y	125.0	0.01	-0.01	1.58	1	11	3	96	0.00	0.0	5.145	0.112	0	0	0	1
PL.51773	PL.61142	B	6 A (CWC)	7.50Y	125.0	0.00	-0.01	1.58	1	11	3	96	0.00	0.0	5.197	0.052	0	0	0	1
PL.51774	PL.51773	B	6 A (CWC)	7.50Y	125.0	0.00	-0.00	1.58	1	11	3	96	0.00	0.0	5.265	0.069	0	0	0	1
PL.51775	PL.51774	B	6 A (CWC)	7.50Y	125.0	0.00	-0.00	1.58	1	11	3	96	0.00	0.0	5.287	0.021	11	3	1	1
PL.56952	PL.56850	B	6 A (CWC)	7.50Y	125.0	0.04	0.02	6.01	4	44	12	96	0.01	0.0	5.202	0.195	19	5	1	5
PL.56953	PL.56952	B	6 A (CWC)	7.50Y	125.0	0.01	0.02	3.34	2	24	6	97	0.00	0.0	5.263	0.061	0	0	1	4
PL.57104	PL.56953	B	6 A (CWC)	7.50Y	124.9	0.05	0.08	3.29	2	24	6	97	0.01	0.0	5.608	0.345	0	0	0	3
PL.57103	PL.57104	B	6 A (CWC)	7.49Y	124.9	0.01	0.09	3.29	2	24	6	97	0.00	0.0	5.690	0.082	12	3	2	3
PL.63470	PL.57103	B	#1/0 ACSR	7.49Y	124.9	0.00	0.09	1.63	1	12	3	97	0.00	0.0	5.748	0.058	0	0	0	1
PL.63471	PL.63470	B	#1/0 ACSR	7.49Y	124.9	0.00	0.09	1.63	1	12	3	97	0.00	0.0	5.800	0.051	12	3	1	1
PL.57105	PL.57104	B	6 A (CWC)	7.50Y	124.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	5.812	0.203	0	0	0	0
PL.57274	PL.57105	B	6 A (CWC)	7.50Y	124.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	5.879	0.068	0	0	0	0
PL.56712	PL.42196	B	#4 ACSR	7.51Y	125.2	0.00	-0.23	1.71	1	12	3	97	0.00	0.0	4.711	0.093	12	3	2	2
PL.57116	PL.57117	B	#4 ACSR	7.52Y	125.3	0.00	-0.29	1.26	1	9	2	98	0.00	0.0	4.577	0.048	9	2	1	1
PL.42195	PL.57116	B	#4 ACSR	7.52Y	125.3	0.00	-0.29	0.00	0	0	0	100	0.00	0.0	4.652	0.075	0	0	0	0
PL.63463	PL.63461	B	#1/0 ACSR	7.13Y	118.8	0.00	6.22	2.26	1	16	4	97	0.00	0.0	4.121	0.004	0	0	0	1
PD.9424	PL.63463	B	10T	7.13Y	118.8	0.00	6.22	2.26	0	16	4	97	0.00	0.0	4.121	0.004	0	0	0	1
PL.63474	PD.9424	B	#1/0 ACSR	7.13Y	118.8	0.00	6.22	2.26	1	16	4	97	0.00	0.0	4.195	0.075	16	4	1	1
PL.57009	PL.42588	B	6 A (CWC)	7.15Y	119.2	0.01	5.84	5.06	4	35	9	97	0.00	0.0	3.980	0.058	2	1	1	6
PL.57010	PL.57009	B	6 A (CWC)	7.15Y	119.1	0.02	5.86	4.77	3	33	9	96	0.00	0.0	4.086	0.105	22	6	3	5
PL.42589	PL.57010	B	6 A (CWC)	7.15Y	119.1	0.00	5.86	1.57	1	11	3	96	0.00	0.0	4.147	0.062	11	3	2	2
PL.41696	PL.56522	B	#2 ACSR	7.16Y	119.3	0.00	5.72	1.89	1	13	3	97	0.00	0.0	3.944	0.059	13	3	1	1
PL.64546	PL.41696	B	#1/0 ACSR	7.16Y	119.3	0.00	5.72	0.00	0	0	0	100	0.00	0.0	3.952	0.008	0	0	0	0
PL.64547	PL.64546	B	#1/0 ACSR	7.16Y	119.3	0.00	5.72	0.00	0	0	0	100	0.00	0.0	3.986	0.033	0	0	0	0
PL.56523	PL.57008	C	#1/0 ACSR	7.16Y	119.3	0.00	5.67	1.71	1	12	3	97	0.00	0.0	3.896	0.026	12	3	1	1
PL.56521	PL.57008	ABC	#1/0 ACSR	7.16Y	119.3	0.00	5.67	0.00	0	0	0	100	0.00	0.0	3.906	0.036	0	0	0	0
PD.6815-B	PL.56521	ABC	Open	7.16Y	119.3	0.00	5.67	0.00	0	0	0	100	0.00	0.0	3.906	0.036	0	0	0	0
PL.57186	PL.57184	B	6 A (CWC)	7.17Y	119.4	0.00	5.58	7.65	5	53	14	97	0.00	0.0	3.669	0.004	0	0	0	5
PD.8271	PL.57186	B	20QA	7.17Y	119.4	0.00	5.58	7.65	38	53	14	97	0.00	0.0	3.669	0.004	0	0	0	5

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.57187	PD.8271	B	6 A (CWC)	7.16Y	119.4	0.02	5.60	7.65	5	53	14	97	0.01	0.0	3.729	0.060	5	1	1	5
PL.57185	PL.57187	B	6 A (CWC)	7.16Y	119.4	0.02	5.62	6.98	5	48	13	97	0.01	0.0	3.798	0.069	12	3	1	4
PL.57093	PL.57185	B	6 A (CWC)	7.16Y	119.4	0.00	5.62	5.27	4	37	10	97	0.00	0.0	3.814	0.016	4	1	1	3
PL.57092	PL.57093	B	6 A (CWC)	7.16Y	119.4	0.01	5.63	4.68	3	32	9	96	0.00	0.0	3.901	0.087	13	4	1	2
PL.56870	PL.57092	B	#1/0 ACSR	7.16Y	119.4	0.00	5.64	2.74	1	19	5	97	0.00	0.0	4.016	0.115	19	5	1	1
CP.83	PL.52711	ABC	Cap (300)	7.17Y	119.4	0.00	5.55	0.00	0	0	0	100	0.00	0.0	3.622	0.115	0	0	0	0
PL.56448	PL.56450	ABC	#1/0 ACSR	7.19Y	119.8	0.07	5.20	34.37	15	697	254	94	0.32	0.0	3.022	0.103	4	1	1	52
PL.56452	PL.56448	B	6 A (CWC)	7.19Y	119.8	0.01	5.21	76.08	54	519	171	95	0.05	0.0	3.026	0.004	0	0	0	49
PL.57108	PL.56452	B	6 A (CWC)	7.17Y	119.5	0.30	5.52	76.08	54	519	171	95	1.20	0.2	3.111	0.086	0	0	0	49
PL.57106	PL.57108	B	6 A (CWC)	7.17Y	119.5	0.02	5.54	76.08	54	518	170	95	0.08	0.0	3.117	0.006	0	0	0	49
PD.8333	PL.57106	B	140L	7.17Y	119.5	0.00	5.54	76.08	54	518	170	95	0.00	0.0	3.117	0.006	0	0	0	49
PL.57107	PD.8333	B	6 A (CWC)	7.15Y	119.2	0.25	5.79	76.08	54	518	170	95	1.00	0.2	3.189	0.072	6	2	1	49
PL.56925	PL.57107	B	6 A (CWC)	7.14Y	119.0	0.21	6.00	73.75	53	501	165	95	0.83	0.2	3.251	0.063	0	0	0	47
PL.56846	PL.56925	B	6 A (CWC)	7.14Y	119.0	0.00	6.01	1.85	1	13	3	97	0.00	0.0	3.362	0.110	13	3	1	1
PL.56847	PL.56925	B	6 A (CWC)	7.14Y	118.9	0.08	6.08	71.90	51	487	161	95	0.28	0.1	3.274	0.023	0	0	0	46
PL.56605	PL.56847	B	1/0 AL URD	7.14Y	118.9	0.00	6.08	1.77	1	12	3	97	0.00	0.0	3.316	0.042	12	3	1	1
PL.56604	PL.56847	B	6 A (CWC)	7.13Y	118.8	0.11	6.19	70.14	50	475	158	95	0.36	0.1	3.317	0.043	172	77	4	45
REG62	PL.56604	B	114.3 KVA	7.50Y	125.1	-6.25	-0.06	43.97	29	303	81	97	percent Boost= 0.00 Tap= 0.0							41
PL.56603	REG62	B	6 A (CWC)	7.49Y	124.9	0.17	0.11	41.77	30	303	81	97	0.37	0.1	3.405	0.088	0	0	0	41
PL.42262	PL.56603	B	6 A (CWC)	7.48Y	124.7	0.15	0.26	41.00	29	297	80	97	0.33	0.1	3.485	0.080	0	0	0	40
PL.42144	PL.42262	B	6 A (CWC)	7.48Y	124.7	0.01	0.27	5.79	4	42	11	97	0.00	0.0	3.527	0.042	0	0	0	3
PL.42145	PL.42144	B	6 A (CWC)	7.48Y	124.7	0.00	0.27	3.17	2	23	6	97	0.00	0.0	3.593	0.066	22	6	1	2
PL.42146	PL.42145	B	6 A (CWC)	7.48Y	124.7	0.00	0.27	0.10	0	1	0	100	0.00	0.0	3.648	0.056	1	0	1	1
PL.41015	PL.42144	B	6 A (CWC)	7.48Y	124.7	0.01	0.27	2.62	2	19	5	97	0.00	0.0	3.616	0.090	19	5	1	1
PL.42147	PL.42262	B	6 A (CWC)	7.46Y	124.4	0.38	0.64	35.21	25	255	68	97	0.72	0.3	3.726	0.241	3	1	1	37
PL.57121	PL.42147	B	6 A (CWC)	7.44Y	124.0	0.32	0.96	34.79	25	251	67	97	0.58	0.2	3.928	0.202	6	1	1	36
PL.59394	PL.57121	B	#4 ACSR	7.44Y	124.0	0.01	0.96	2.38	2	17	5	96	0.00	0.0	4.024	0.096	17	5	1	1
PL.57122	PL.57121	B	6 A (CWC)	7.44Y	123.9	0.13	1.08	31.64	23	228	61	97	0.21	0.1	4.014	0.087	0	0	0	34
PL.42148	PL.57122	B	6 A (CWC)	7.42Y	123.7	0.24	1.33	31.28	22	225	60	97	0.41	0.2	4.185	0.170	0	0	0	33
PL.42151	PL.42148	B	6 A (CWC)	7.42Y	123.6	0.09	1.41	28.40	20	204	54	97	0.13	0.1	4.253	0.068	3	1	1	29
PL.42152	PL.42151	B	6 A (CWC)	7.40Y	123.3	0.32	1.73	28.04	20	201	53	97	0.47	0.2	4.500	0.248	1	0	2	28

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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42119	PL.42152	B	#2 ACSR	7.40Y	123.3	0.00	1.73	0.04	0	0	0	100	0.00	0.0	4.550	0.050	0	0	3	3
PL.42153	PL.42152	B	6 A (CWC)	7.39Y	123.1	0.14	1.87	27.82	20	199	53	97	0.21	0.1	4.615	0.114	0	0	0	23
PL.56618	PL.42153	B	#1/0 ACSR	7.39Y	123.1	0.00	1.87	3.56	2	25	7	96	0.00	0.0	4.646	0.031	25	7	2	2
PL.42154	PL.42153	B	6 A (CWC)	7.38Y	123.0	0.08	1.95	24.26	17	173	46	97	0.10	0.1	4.688	0.073	7	2	1	21
PL.56499	PL.42154	B	6 A (CWC)	7.38Y	123.0	0.04	1.99	23.30	17	166	44	97	0.05	0.0	4.725	0.037	9	2	1	20
PL.56500	PL.56499	B	6 A (CWC)	7.38Y	122.9	0.07	2.07	22.05	16	157	42	97	0.09	0.1	4.800	0.075	3	1	1	19
PL.56492	PL.56500	B	#4 ACSR	7.37Y	122.9	0.02	2.09	6.65	5	47	13	96	0.01	0.0	4.867	0.067	0	0	0	8
PL.56493	PL.56492	B	#4 ACSR	7.37Y	122.9	0.00	2.09	0.79	1	6	1	99	0.00	0.0	4.907	0.041	6	1	1	1
PL.56741	PL.56493	B	#4 ACSR	7.37Y	122.9	0.00	2.09	0.00	0	0	0	100	0.00	0.0	4.970	0.063	0	0	0	0
PL.56496	PL.56492	B	#4 ACSR	7.37Y	122.9	0.01	2.09	3.17	2	23	6	97	0.00	0.0	4.921	0.054	0	0	0	6
PL.56498	PL.56496	B	#2 ACSR	7.37Y	122.9	0.00	2.09	2.06	1	15	4	97	0.00	0.0	4.940	0.019	15	4	2	2
PL.56497	PL.56496	B	#4 ACSR	7.37Y	122.9	0.00	2.10	1.11	1	8	2	97	0.00	0.0	5.000	0.079	1	0	2	4
PL.56494	PL.56497	B	#4 ACSR	7.37Y	122.9	0.00	2.10	0.91	1	6	2	95	0.00	0.0	5.014	0.013	6	2	2	2
PL.64314	PL.56492	B	#1/0 ACSR	7.37Y	122.9	0.00	2.09	2.69	1	19	5	97	0.00	0.0	4.933	0.066	0	0	0	1
PL.64315	PL.64314	B	#1/0 ACSR	7.37Y	122.9	0.00	2.09	2.69	1	19	5	97	0.00	0.0	4.995	0.062	19	5	1	1
PL.56740	PL.56500	B	#2 ACSR	7.37Y	122.9	0.04	2.11	14.95	9	107	28	97	0.03	0.0	4.891	0.091	0	0	0	10
PL.56592	PL.56740	B	6 A (CWC)	7.37Y	122.9	0.00	2.11	2.77	2	20	5	97	0.00	0.0	4.935	0.044	20	5	4	4
PL.56593	PL.56740	B	#2 ACSR	7.37Y	122.9	0.01	2.12	12.18	7	87	23	97	0.01	0.0	4.929	0.038	0	0	0	6
PL.56595	PL.56593	B	#1/0 ACSR	7.37Y	122.9	0.00	2.12	1.57	1	11	3	96	0.00	0.0	4.945	0.016	11	3	1	1
PL.56594	PL.56593	B	#2 ACSR	7.37Y	122.9	0.02	2.15	10.61	6	76	20	97	0.01	0.0	5.004	0.075	0	0	0	5
PL.56222	PL.56594	B	#1/0 ACSR	7.37Y	122.9	0.00	2.15	2.73	1	19	5	97	0.00	0.0	5.015	0.012	19	5	1	1
PL.56221	PL.56594	B	#2 ACSR	7.37Y	122.8	0.02	2.17	7.88	5	56	15	97	0.01	0.0	5.080	0.076	0	0	0	4
PL.56743	PL.56221	B	#2 ACSR	7.37Y	122.8	0.01	2.17	2.73	2	19	5	97	0.00	0.0	5.163	0.084	6	2	1	2
PL.56744	PL.56743	B	#1/0 ACSR	7.37Y	122.8	0.00	2.18	1.85	1	13	3	97	0.00	0.0	5.223	0.060	0	0	0	1
PL.56745	PL.56744	B	#1/0 ACSR	7.37Y	122.8	0.00	2.18	1.85	1	13	3	97	0.00	0.0	5.329	0.106	13	3	1	1
PL.56746	PL.56745	B	#1/0 ACSR	7.37Y	122.8	0.00	2.18	0.00	0	0	0	100	0.00	0.0	5.356	0.027	0	0	0	0
PL.63469	PL.56221	B	1/0 AL URD	7.37Y	122.8	0.00	2.17	2.51	1	18	5	96	0.00	0.0	5.120	0.041	18	5	1	1
PL.56742	PL.56221	B	#2 ACSR	7.37Y	122.8	0.00	2.17	2.65	2	19	5	97	0.00	0.0	5.144	0.064	19	5	1	1
PL.42149	PL.42148	B	#4 ACSR	7.42Y	123.7	0.01	1.34	2.89	2	21	5	97	0.00	0.0	4.311	0.126	6	2	3	4
PL.42150	PL.42149	B	#4 ACSR	7.42Y	123.7	0.00	1.34	2.02	2	15	4	97	0.00	0.0	4.342	0.031	15	4	1	1
PL.56228	PL.57122	B	#4 ACSR	7.43Y	123.9	0.00	1.08	0.36	0	3	1	95	0.00	0.0	4.134	0.119	3	1	1	1

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.56713	PL.56603	B	#1/0 ACSR	7.49Y	124.9	0.00	0.11	0.77	0	6	1	99	0.00	0.0	3.424	0.019	6	1	1	1
PL.59354	PL.57107	B	6 A (CWC)	7.15Y	119.2	0.00	5.79	1.42	1	10	3	96	0.00	0.0	3.304	0.115	10	3	1	1
PL.56449	PL.56448	ABC	#1/0 ACSR	7.19Y	119.8	0.03	5.23	8.33	4	162	78	90	0.03	0.0	3.200	0.179	0	0	0	1
PL.56920	PL.56449	ABC	#2 ACSR	7.19Y	119.8	0.00	5.23	0.00	0	0	0	100	0.00	0.0	3.246	0.045	0	0	0	0
PL.56921	PL.56449	ABC	#1/0 ACSR	7.19Y	119.8	0.00	5.23	8.33	4	162	78	90	0.00	0.0	3.210	0.010	162	78	1	1
PL.56453	PL.56448	A	#2 ACSR	7.19Y	119.8	0.00	5.20	1.60	1	11	3	96	0.00	0.0	3.027	0.005	0	0	0	1
PD.8245	PL.56453	A	40QA	7.19Y	119.8	0.00	5.20	1.60	4	11	3	96	0.00	0.0	3.027	0.005	0	0	0	1
PL.56851	PD.8245	A	#2 ACSR	7.19Y	119.8	0.00	5.20	1.60	1	11	3	96	0.00	0.0	3.116	0.089	11	3	1	1
PL.56454	PL.56450	C	#1/0 ACSR	7.19Y	119.9	0.00	5.13	0.39	0	3	1	95	0.00	0.0	2.924	0.006	0	0	0	1
PD.8331	PL.56454	C	20QA	7.19Y	119.9	0.00	5.13	0.39	2	3	1	95	0.00	0.0	2.924	0.006	0	0	0	1
PL.56780	PD.8331	C	#1/0 ACSR	7.19Y	119.9	0.00	5.14	0.39	0	3	1	95	0.00	0.0	2.971	0.047	3	1	1	1
PL.56923	PL.56922	ABC	#1/0 ACSR	7.20Y	120.0	0.02	5.01	31.63	14	660	176	97	0.11	0.0	2.840	0.042	0	0	0	90
PL.42041	PL.56923	ABC	#1/0 ACSR	7.20Y	120.0	0.00	5.01	31.63	14	660	176	97	0.02	0.0	2.846	0.006	0	0	0	90
PD.6813	PL.42041	ABC	50L	7.20Y	120.0	0.00	5.01	31.63	63	660	176	97	0.00	0.0	2.846	0.006	0	0	0	90
PL.42042	PD.6813	ABC	#1/0 ACSR	7.20Y	120.0	0.02	5.03	31.63	14	660	176	97	0.10	0.0	2.884	0.038	8	2	1	90
PL.41817	PL.42042	A	#1/0 ACSR	7.20Y	120.0	0.00	5.03	0.00	0	0	0	100	0.00	0.0	2.987	0.103	0	0	1	1
PL.56392	PL.42042	ABC	#1/0 ACSR	7.20Y	119.9	0.04	5.07	31.22	14	652	173	97	0.20	0.0	2.962	0.078	0	0	0	88
PL.56393	PL.56392	C	#1/0 ACSR	7.20Y	119.9	0.00	5.07	0.62	0	4	1	97	0.00	0.0	2.968	0.006	0	0	0	1
PD.8005	PL.56393	C	40QA	7.20Y	119.9	0.00	5.07	0.62	2	4	1	97	0.00	0.0	2.968	0.006	0	0	0	1
PL.52054	PD.8005	C	#1/0 ACSR	7.20Y	119.9	0.00	5.07	0.62	0	4	1	97	0.00	0.0	3.011	0.044	4	1	1	1
PL.56394	PL.56392	ABC	#1/0 ACSR	7.19Y	119.9	0.04	5.11	29.10	13	607	161	97	0.17	0.0	3.037	0.075	12	3	2	82
PL.42043	PL.56394	A	#2 ACSR	7.19Y	119.9	0.00	5.11	0.96	1	7	2	96	0.00	0.0	3.043	0.006	0	0	0	1
PD.6639	PL.42043	A	40QA	7.19Y	119.9	0.00	5.11	0.96	2	7	2	96	0.00	0.0	3.043	0.006	0	0	0	1
PL.42044	PD.6639	A	#2 ACSR	7.19Y	119.9	0.00	5.11	0.96	1	7	2	96	0.00	0.0	3.095	0.052	7	2	1	1
PL.42045	PL.56394	A	#2 ACSR	7.19Y	119.9	0.00	5.11	1.12	1	8	2	97	0.00	0.0	3.043	0.006	0	0	0	3
PD.6768	PL.42045	A	40QA	7.19Y	119.9	0.00	5.11	1.12	3	8	2	97	0.00	0.0	3.043	0.006	0	0	0	3
PL.62046	PD.6768	A	#2 ACSR	7.19Y	119.9	0.00	5.11	1.12	1	8	2	97	0.00	0.0	3.105	0.063	5	1	2	3
PL.62047	PL.62046	A	#2 ACSR	7.19Y	119.9	0.00	5.11	0.41	0	3	1	95	0.00	0.0	3.131	0.025	3	1	1	1
PL.42046	PL.56394	ABC	#1/0 ACSR	7.19Y	119.9	0.04	5.15	27.82	12	580	154	97	0.15	0.0	3.111	0.074	6	2	1	76
PL.42047	PL.42046	ABC	#1/0 ACSR	7.19Y	119.8	0.08	5.23	27.54	12	574	152	97	0.34	0.1	3.281	0.170	0	0	0	75
PL.42049	PL.42047	A	#2 ACSR	7.19Y	119.8	0.00	5.23	1.10	1	8	2	97	0.00	0.0	3.287	0.006	0	0	0	1

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.6426	PL.42049	A	40QA	7.19Y	119.8	0.00	5.23	1.10	3	8	2	97	0.00	0.0	3.287	0.006	0	0	0	1
PL.42050	PD.6426	A	#2 ACSR	7.19Y	119.8	0.00	5.23	1.10	1	8	2	97	0.00	0.0	3.312	0.025	8	2	1	1
PL.42051	PL.42047	ABC	#1/0 ACSR	7.19Y	119.8	0.01	5.25	26.86	12	560	148	97	0.06	0.0	3.311	0.030	0	0	0	73
PL.42053	PL.42051	A	#4 ACSR	7.19Y	119.8	0.00	5.25	1.28	1	9	2	98	0.00	0.0	3.317	0.006	0	0	0	1
PD.6638	PL.42053	A	40QA	7.19Y	119.8	0.00	5.25	1.28	3	9	2	98	0.00	0.0	3.317	0.006	0	0	0	1
PL.42054	PD.6638	A	#2 ACSR	7.19Y	119.8	0.00	5.25	1.28	1	9	2	98	0.00	0.0	3.360	0.043	9	2	1	1
PL.42055	PL.42051	A	#2 ACSR	7.19Y	119.8	0.00	5.25	1.45	1	10	3	96	0.00	0.0	3.317	0.006	0	0	0	1
PD.6640	PL.42055	A	40QA	7.19Y	119.8	0.00	5.25	1.45	4	10	3	96	0.00	0.0	3.317	0.006	0	0	0	1
PL.42056	PD.6640	A	#2 ACSR	7.19Y	119.8	0.00	5.25	1.45	1	10	3	96	0.00	0.0	3.344	0.027	10	3	1	1
PL.42052	PL.42051	ABC	#1/0 ACSR	7.18Y	119.7	0.05	5.30	25.95	11	541	143	97	0.19	0.0	3.418	0.107	0	0	0	71
PL.42057	PL.42052	A	6 A (CWC)	7.18Y	119.7	0.01	5.30	23.36	17	162	43	97	0.01	0.0	3.424	0.006	0	0	0	17
PD.6535	PL.42057	A	40QA	7.18Y	119.7	0.00	5.30	23.36	58	162	43	97	0.00	0.0	3.424	0.006	0	0	0	17
PL.42058	PD.6535	A	6 A (CWC)	7.18Y	119.7	0.03	5.33	23.36	17	162	43	97	0.04	0.0	3.453	0.029	15	4	1	17
PL.42059	PL.42058	A	6 A (CWC)	7.18Y	119.6	0.06	5.39	21.14	15	147	39	97	0.06	0.0	3.512	0.059	0	0	0	16
PL.42060	PL.42059	A	6 A (CWC)	7.17Y	119.6	0.04	5.43	21.14	15	147	39	97	0.05	0.0	3.555	0.042	0	0	1	16
PL.42061	PL.42060	A	6 A (CWC)	7.17Y	119.5	0.05	5.48	21.13	15	147	39	97	0.05	0.0	3.604	0.049	3	1	1	15
PL.56645	PL.42061	A	6 A (CWC)	7.17Y	119.4	0.09	5.57	20.65	15	143	38	97	0.10	0.1	3.707	0.103	14	4	2	14
PL.56646	PL.56645	A	#4 ACSR	7.16Y	119.4	0.06	5.63	11.90	9	82	22	97	0.04	0.0	3.830	0.123	15	4	1	8
PL.42015	PL.56646	A	#4 ACSR	7.16Y	119.3	0.05	5.68	9.75	8	68	18	97	0.02	0.0	3.954	0.125	13	3	1	7
PL.42016	PL.42015	A	#4 ACSR	7.16Y	119.3	0.01	5.69	6.56	5	45	12	97	0.00	0.0	4.006	0.052	7	2	1	5
PL.41556	PL.42016	A	#4 ACSR	7.16Y	119.3	0.00	5.70	2.48	2	17	5	96	0.00	0.0	4.086	0.080	17	5	2	2
PL.56714	PL.42016	A	6 A (CWC)	7.16Y	119.3	0.00	5.69	1.49	1	10	3	96	0.00	0.0	4.041	0.035	10	3	1	1
PL.56715	PL.56714	A	6 A (CWC)	7.16Y	119.3	0.00	5.69	0.00	0	0	0	100	0.00	0.0	4.095	0.055	0	0	0	0
PL.56596	PL.42016	A	#4 ACSR	7.16Y	119.3	0.01	5.70	1.58	1	11	3	96	0.00	0.0	4.162	0.156	11	3	1	1
PL.41555	PL.42015	A	#4 ACSR	7.16Y	119.3	0.01	5.68	1.37	1	9	2	98	0.00	0.0	4.121	0.167	9	2	1	1
PL.64675	PL.56645	A	#4 ACSR	7.16Y	119.4	0.01	5.58	6.77	5	47	12	97	0.01	0.0	3.752	0.046	0	0	0	4
PL.64676	PL.64675	A	#4 ACSR	7.16Y	119.4	0.00	5.58	6.77	5	47	12	97	0.00	0.0	3.752	0.000	11	3	1	4
PL.41418	PL.64676	A	#4 ACSR	7.16Y	119.4	0.01	5.59	5.16	4	36	9	97	0.00	0.0	3.806	0.054	10	3	1	3
PL.56647	PL.41418	A	#1/0 ACSR	7.16Y	119.4	0.01	5.61	3.73	2	26	7	97	0.00	0.0	3.957	0.151	10	3	1	2
PL.56648	PL.56647	A	#1/0 ACSR	7.16Y	119.4	0.00	5.61	2.26	1	16	4	97	0.00	0.0	4.008	0.051	0	0	0	1
PL.56649	PL.56648	A	#1/0 ACSR	7.16Y	119.4	0.01	5.62	2.26	1	16	4	97	0.00	0.0	4.323	0.315	16	4	1	1

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.56643	PL.64676	A	#4 ACSR	7.16Y	119.4	0.00	5.58	0.00	0	0	0	100	0.00	0.0	3.824	0.072	0	0	0	0
PL.56644	PL.56643	A	#4 ACSR	7.16Y	119.4	0.00	5.58	0.00	0	0	0	100	0.00	0.0	3.904	0.080	0	0	0	0
PL.41802	PL.56644	A	#4 ACSR	7.16Y	119.4	0.00	5.58	0.00	0	0	0	100	0.00	0.0	4.020	0.116	0	0	0	0
PL.41577	PL.42052	ABC	#1/0 ACSR	7.18Y	119.7	0.03	5.33	18.16	8	378	100	97	0.07	0.0	3.503	0.084	0	0	0	54
PL.59295	PL.41577	A	6 A (CWC)	7.18Y	119.7	0.01	5.33	36.09	26	250	66	97	0.01	0.0	3.506	0.003	0	0	0	36
PD.8774	PL.59295	A	40T	7.18Y	119.7	0.00	5.33	36.09	0	250	66	97	0.00	0.0	3.506	0.003	0	0	0	36
PL.59296	PD.8774	A	6 A (CWC)	7.18Y	119.6	0.08	5.41	36.09	26	250	66	97	0.16	0.1	3.556	0.051	4	1	2	36
PL.56601	PL.59296	A	6 A (CWC)	7.17Y	119.6	0.01	5.43	6.78	5	47	12	97	0.00	0.0	3.647	0.091	47	12	5	5
PL.56602	PL.59296	A	6 A (CWC)	7.17Y	119.5	0.05	5.46	28.67	20	199	53	97	0.07	0.0	3.594	0.038	18	5	2	29
PL.56698	PL.56602	A	6 A (CWC)	7.17Y	119.5	0.07	5.54	26.12	19	181	48	97	0.10	0.1	3.657	0.063	0	0	0	27
PL.59396	PL.56698	A	6 A (CWC)	7.16Y	119.4	0.09	5.62	26.12	19	181	48	97	0.12	0.1	3.730	0.074	10	3	1	27
PL.59397	PL.59396	A	6 A (CWC)	7.15Y	119.2	0.14	5.76	24.64	18	171	45	97	0.18	0.1	3.855	0.125	10	3	1	26
PL.56597	PL.59397	A	#4 ACSR	7.15Y	119.2	0.01	5.77	4.44	3	31	8	97	0.00	0.0	3.954	0.099	19	5	2	3
PL.56598	PL.56597	A	#1/0 ACSR	7.15Y	119.2	0.00	5.77	1.75	1	12	3	97	0.00	0.0	4.033	0.078	12	3	1	1
PL.56238	PL.59397	A	6 A (CWC)	7.15Y	119.2	0.04	5.80	12.53	9	87	23	97	0.03	0.0	3.939	0.084	11	3	2	16
PL.57823	PL.56238	A	6 A (CWC)	7.15Y	119.2	0.02	5.82	6.71	5	46	12	97	0.01	0.0	4.018	0.080	11	3	3	12
PL.57822	PL.57823	A	6 A (CWC)	7.15Y	119.2	0.00	5.82	0.67	0	5	1	98	0.00	0.0	4.155	0.136	5	1	1	1
PL.57824	PL.57823	A	6 A (CWC)	7.15Y	119.2	0.00	5.83	4.40	3	30	8	97	0.00	0.0	4.046	0.027	7	2	2	8
PL.56509	PL.57824	A	6 A (CWC)	7.15Y	119.2	0.01	5.84	3.35	2	23	6	97	0.00	0.0	4.135	0.089	0	0	0	6
PL.56510	PL.56509	A	6 A (CWC)	7.15Y	119.2	0.00	5.84	2.35	2	16	4	97	0.00	0.0	4.168	0.033	0	0	0	1
PL.42259	PL.56510	A	6 A (CWC)	7.15Y	119.1	0.01	5.85	2.35	2	16	4	97	0.00	0.0	4.295	0.127	16	4	1	1
PL.56689	PL.56509	A	#1/0 ACSR	7.15Y	119.2	0.00	5.84	1.01	0	7	2	96	0.00	0.0	4.175	0.040	1	0	1	5
PL.56690	PL.56689	A	#1/0 ACSR	7.15Y	119.2	0.00	5.84	0.86	0	6	2	95	0.00	0.0	4.207	0.032	2	1	2	4
PL.56511	PL.56690	A	#1/0 ACSR	7.15Y	119.2	0.00	5.84	0.50	0	3	1	95	0.00	0.0	4.219	0.013	2	1	1	2
PL.42143	PL.56511	A	#1/0 ACSR	7.15Y	119.2	0.00	5.84	0.17	0	1	0	100	0.00	0.0	4.276	0.057	1	0	1	1
PL.56495	PL.56238	A	#2 ACSR	7.15Y	119.2	0.00	5.80	4.18	2	29	8	96	0.00	0.0	3.968	0.030	29	8	2	2
PL.56236	PL.59397	A	6 A (CWC)	7.15Y	119.2	0.00	5.76	2.60	2	18	5	96	0.00	0.0	3.906	0.051	18	5	3	3
PL.56237	PL.59397	A	6 A (CWC)	7.15Y	119.2	0.01	5.76	3.69	3	26	7	97	0.00	0.0	3.941	0.086	26	7	3	3
PL.42252	PL.41577	A	6 A (CWC)	7.18Y	119.7	0.00	5.33	18.39	13	128	34	97	0.00	0.0	3.508	0.006	0	0	0	18
PD.6478	PL.42252	A	40QA	7.18Y	119.7	0.00	5.33	18.39	46	128	34	97	0.00	0.0	3.508	0.006	0	0	0	18
PL.56599	PD.6478	A	6 A (CWC)	7.18Y	119.7	0.02	5.35	18.39	13	128	34	97	0.02	0.0	3.531	0.023	22	6	2	18

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.56702	PL.56599	A	6 A (CWC)	7.18Y	119.6	0.03	5.38	11.37	8	79	21	97	0.02	0.0	3.593	0.062	8	2	1	8
PL.56701	PL.56702	A	#2 ACSR	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	3.619	0.026	0	0	0	0
PL.56703	PL.56702	A	6 A (CWC)	7.18Y	119.6	0.00	5.38	10.27	7	71	19	97	0.00	0.0	3.598	0.006	0	0	0	7
PD.6744	PL.56703	A	40QA	7.18Y	119.6	0.00	5.38	10.27	26	71	19	97	0.00	0.0	3.598	0.006	0	0	0	7
PL.56700	PD.6744	A	6 A (CWC)	7.18Y	119.6	0.02	5.40	10.27	7	71	19	97	0.01	0.0	3.647	0.049	15	4	1	7
PL.56848	PL.56700	A	6 A (CWC)	7.18Y	119.6	0.01	5.41	8.18	6	57	15	97	0.00	0.0	3.676	0.028	0	0	0	6
PL.56947	PL.56848	A	6 A (CWC)	7.17Y	119.6	0.01	5.43	6.34	5	44	12	96	0.00	0.0	3.724	0.049	0	0	0	5
PL.56946	PL.56947	A	6 A (CWC)	7.17Y	119.6	0.00	5.43	1.60	1	11	3	96	0.00	0.0	3.752	0.028	11	3	1	1
PL.56948	PL.56947	A	6 A (CWC)	7.17Y	119.6	0.01	5.43	4.74	3	33	9	96	0.00	0.0	3.754	0.030	10	3	1	4
PL.56949	PL.56948	A	6 A (CWC)	7.17Y	119.6	0.01	5.44	3.28	2	23	6	97	0.00	0.0	3.811	0.056	9	2	1	3
PL.56950	PL.56949	A	#4 ACSR	7.17Y	119.6	0.00	5.44	1.95	2	14	4	96	0.00	0.0	3.830	0.019	14	4	2	2
PL.56849	PL.56848	A	#4 ACSR	7.18Y	119.6	0.00	5.41	1.84	1	13	3	97	0.00	0.0	3.700	0.024	0	0	0	1
PL.56223	PL.56849	A	#4 ACSR	7.18Y	119.6	0.00	5.42	1.84	1	13	3	97	0.00	0.0	3.750	0.050	13	3	1	1
PL.63223	PL.56599	A	6 A (CWC)	7.18Y	119.7	0.00	5.35	0.00	0	0	0	100	0.00	0.0	3.531	0.000	0	0	0	0
PL.63224	PL.63223	A	6 A (CWC)	7.18Y	119.7	0.00	5.35	0.00	0	0	0	100	0.00	0.0	3.576	0.045	0	0	0	0
PL.56600	PL.56599	A	#4 ACSR	7.18Y	119.6	0.01	5.36	3.85	3	27	7	97	0.00	0.0	3.611	0.080	3	1	1	8
PL.42570	PL.56600	A	#4 ACSR	7.18Y	119.6	0.00	5.36	3.36	3	23	6	97	0.00	0.0	3.641	0.030	0	0	0	7
PL.56606	PL.42570	A	#4 ACSR	7.18Y	119.6	0.02	5.38	3.36	3	23	6	97	0.00	0.0	3.741	0.100	0	0	0	7
PL.56610	PL.56606	A	#4 ACSR	7.18Y	119.6	0.01	5.39	3.36	3	23	6	97	0.00	0.0	3.802	0.061	3	1	3	6
PL.56611	PL.56610	A	#4 ACSR	7.18Y	119.6	0.00	5.39	2.88	2	20	5	97	0.00	0.0	3.844	0.042	6	2	1	3
PL.56609	PL.56611	A	#4 ACSR	7.18Y	119.6	0.00	5.40	1.95	2	14	4	96	0.00	0.0	3.885	0.042	0	0	0	2
PL.56607	PL.56609	A	#4 ACSR	7.18Y	119.6	0.01	5.40	1.95	2	14	4	96	0.00	0.0	3.945	0.060	0	0	0	2
PL.42571	PL.56607	A	#4 ACSR	7.18Y	119.6	0.00	5.40	1.95	2	14	4	96	0.00	0.0	4.001	0.055	14	4	2	2
PL.56608	PL.56606	A	#1/0 ACSR	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	3.801	0.060	0	0	1	1
PL.56699	PL.56600	A	#2 ACSR	7.18Y	119.6	0.00	5.36	0.00	0	0	0	100	0.00	0.0	3.641	0.030	0	0	0	0
PL.42048	PL.42047	A	#2 ACSR	7.19Y	119.8	0.00	5.23	0.93	1	6	2	95	0.00	0.0	3.287	0.006	0	0	0	1
PD.6641	PL.42048	A	40QA	7.19Y	119.8	0.00	5.23	0.93	2	6	2	95	0.00	0.0	3.287	0.006	0	0	0	1
PL.64689	PD.6641	A	#1/0 ACSR	7.19Y	119.8	0.00	5.23	0.93	0	6	2	95	0.00	0.0	3.306	0.019	0	0	0	1
PL.64690	PL.64689	A	#2 ACSR	7.19Y	119.8	0.00	5.23	0.93	1	6	2	95	0.00	0.0	3.306	0.000	6	2	1	1
PL.64691	PL.64690	A	#1/0 ACSR	7.19Y	119.8	0.00	5.23	0.00	0	0	0	100	0.00	0.0	3.365	0.059	0	0	0	0
PL.64692	PL.64691	A	#1/0 ACSR	7.19Y	119.8	0.00	5.23	0.00	0	0	0	100	0.00	0.0	3.407	0.042	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.56395	PL.56392	A	#1/0 ACSR	7.20Y	119.9	0.00	5.07	5.75	2	40	11	96	0.00	0.0	2.966	0.004	0	0	0	5
PD.8314	PL.56395	A	20QA	7.20Y	119.9	0.00	5.07	5.75	29	40	11	96	0.00	0.0	2.966	0.004	0	0	0	5
PL.56396	PD.8314	A	#1/0 ACSR	7.19Y	119.9	0.01	5.08	5.75	2	40	11	96	0.00	0.0	3.044	0.078	0	0	0	5
PL.59357	PL.56396	A	#1/0 ACSR	7.19Y	119.9	0.01	5.09	5.75	2	40	11	96	0.00	0.0	3.108	0.065	0	0	0	5
PL.59358	PL.59357	A	#1/0 ACSR	7.19Y	119.9	0.00	5.09	1.53	1	11	3	96	0.00	0.0	3.176	0.067	11	3	1	1
PL.59359	PL.59357	A	#1/0 ACSR	7.19Y	119.9	0.00	5.09	1.09	0	8	2	97	0.00	0.0	3.158	0.049	8	2	1	1
PL.62251	PL.59357	A	#1/0 ACSR	7.19Y	119.9	0.00	5.10	3.12	1	22	6	96	0.00	0.0	3.149	0.041	8	2	1	3
PL.62250	PL.62251	A	#1/0 ACSR	7.19Y	119.9	0.00	5.10	1.93	1	13	4	96	0.00	0.0	3.191	0.042	7	2	1	2
PL.62249	PL.62250	A	1/0 AL URD	7.19Y	119.9	0.00	5.10	0.93	1	6	2	95	0.00	0.0	3.201	0.010	6	2	1	1
PL.56924	PL.56922	C	#2 ACSR	7.20Y	120.0	0.00	4.98	1.27	1	9	2	98	0.00	0.0	2.804	0.006	0	0	0	1
PD.6720	PL.56924	C	40QA	7.20Y	120.0	0.00	4.98	1.27	3	9	2	98	0.00	0.0	2.804	0.006	0	0	0	1
PL.42040	PD.6720	C	#2 ACSR	7.20Y	120.0	0.00	4.98	1.27	1	9	2	98	0.00	0.0	2.851	0.047	9	2	1	1
PL.56841	PL.56839	C	6 A (CWC)	7.22Y	120.3	0.00	4.67	1.84	1	13	3	97	0.00	0.0	2.636	0.006	0	0	0	1
PD.6615	PL.56841	C	60QA	7.22Y	120.3	0.00	4.67	1.84	3	13	3	97	0.00	0.0	2.636	0.006	0	0	0	1
PL.52126	PD.6615	C	6 A (CWC)	7.22Y	120.3	0.00	4.67	1.84	1	13	3	97	0.00	0.0	2.673	0.037	13	3	1	1
PL.56722	PL.56724	C	6 A (CWC)	7.25Y	120.8	0.00	4.21	2.60	2	18	5	96	0.00	0.0	2.395	0.006	0	0	0	3
PD.6637	PL.56722	C	60QA	7.25Y	120.8	0.00	4.21	2.60	4	18	5	96	0.00	0.0	2.395	0.006	0	0	0	3
PL.52177	PD.6637	C	6 A (CWC)	7.25Y	120.8	0.00	4.22	2.60	2	18	5	96	0.00	0.0	2.426	0.032	2	1	1	3
PL.52178	PL.52177	C	6 A (CWC)	7.25Y	120.8	0.00	4.22	2.28	2	16	4	97	0.00	0.0	2.463	0.036	16	4	2	2
PL.41321	PL.42037	C	#1/0 ACSR	7.27Y	121.2	0.00	3.78	0.53	0	4	1	97	0.00	0.0	2.192	0.025	4	1	1	1
PL.41751	PL.56962	ABC	#1/0 ACSR	7.29Y	121.4	0.01	3.56	42.84	19	905	242	97	0.09	0.0	2.068	0.019	0	0	0	105
PL.41789	PL.41751	ABC	#1/0 ACSR	7.29Y	121.4	0.00	3.56	42.84	19	905	242	97	0.03	0.0	2.073	0.006	0	0	0	105
PD.6812	PL.41789	ABC	70L	7.29Y	121.4	0.00	3.56	42.84	61	905	242	97	0.00	0.0	2.073	0.006	0	0	0	105
PL.51929	PD.6812	ABC	#1/0 ACSR	7.28Y	121.4	0.05	3.61	42.84	19	905	242	97	0.29	0.0	2.135	0.061	14	4	1	105
PL.51932	PL.51929	ABC	#1/0 ACSR	7.28Y	121.3	0.04	3.65	42.16	18	890	238	97	0.27	0.0	2.191	0.056	0	0	0	104
PL.56717	PL.51932	C	#2 ACSR	7.28Y	121.3	0.00	3.65	2.29	1	16	4	97	0.00	0.0	2.195	0.003	0	0	0	2
PD.8330	PL.56717	C	10QA	7.28Y	121.3	0.00	3.65	2.29	0	16	4	97	0.00	0.0	2.195	0.003	0	0	0	2
PL.56718	PD.8330	C	#2 ACSR	7.28Y	121.3	0.00	3.66	2.29	1	16	4	97	0.00	0.0	2.231	0.036	0	0	0	2
PL.56716	PL.56718	C	#2 ACSR	7.28Y	121.3	0.00	3.66	2.29	1	16	4	97	0.00	0.0	2.270	0.040	16	4	2	2
PL.51933	PL.51932	ABC	#1/0 ACSR	7.28Y	121.3	0.03	3.69	41.39	18	874	233	97	0.20	0.0	2.236	0.045	0	0	0	102
PL.51931	PL.51933	ABC	#1/0 ACSR	7.28Y	121.3	0.03	3.71	41.39	18	873	233	97	0.16	0.0	2.271	0.036	10	3	1	102

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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41432	PL.51931	ABC	#1/0 ACSR	7.27Y	121.2	0.10	3.81	40.19	17	848	226	97	0.60	0.1	2.411	0.140	0	0	0	99
PL.41433	PL.41432	ABC	#1/0 ACSR	7.27Y	121.1	0.04	3.85	40.19	17	847	226	97	0.24	0.0	2.467	0.057	0	0	0	99
PL.41434	PL.41433	A	#2 ACSR	7.27Y	121.1	0.00	3.85	1.46	1	10	3	96	0.00	0.0	2.473	0.006	0	0	0	2
PD.6625	PL.41434	A	25QA	7.27Y	121.1	0.00	3.85	1.46	6	10	3	96	0.00	0.0	2.473	0.006	0	0	0	2
PL.59276	PD.6625	A	#2 ACSR	7.27Y	121.1	0.00	3.86	1.46	1	10	3	96	0.00	0.0	2.511	0.038	10	3	2	2
PL.41435	PL.41433	ABC	#1/0 ACSR	7.26Y	121.1	0.07	3.92	39.70	17	837	223	97	0.41	0.0	2.565	0.098	0	0	0	97
PL.41436	PL.41435	ABC	#1/0 ACSR	7.26Y	121.0	0.05	3.98	39.13	17	824	219	97	0.30	0.0	2.640	0.075	17	4	2	96
PL.41779	PL.41436	A	#2 ACSR	7.26Y	121.0	0.00	3.98	4.82	3	34	9	97	0.00	0.0	2.646	0.006	0	0	0	2
PD.6613	PL.41779	A	40QA	7.26Y	121.0	0.00	3.98	4.82	12	34	9	97	0.00	0.0	2.646	0.006	0	0	0	2
PL.41780	PD.6613	A	#2 ACSR	7.26Y	121.0	0.00	3.98	4.82	3	34	9	97	0.00	0.0	2.666	0.020	0	0	0	2
PL.51750	PL.41780	A	#2 ACSR	7.26Y	121.0	0.01	3.99	4.82	3	34	9	97	0.00	0.0	2.744	0.078	20	5	1	2
PL.56243	PL.51750	A	#2 ACSR	7.26Y	121.0	0.00	3.99	1.96	1	14	4	96	0.00	0.0	2.787	0.044	0	0	0	1
PL.56244	PL.56243	A	#1/0 ACSR	7.26Y	121.0	0.00	3.99	1.96	1	14	4	96	0.00	0.0	2.951	0.164	14	4	1	1
PL.56935	PL.41436	C	#2 ACSR	7.26Y	121.0	0.01	3.98	28.71	16	202	53	97	0.01	0.0	2.646	0.006	0	0	0	24
PD.8336	PL.56935	C	40QA	7.26Y	121.0	0.00	3.98	28.71	72	202	53	97	0.00	0.0	2.646	0.006	0	0	0	24
PL.56936	PD.8336	C	#2 ACSR	7.25Y	120.9	0.10	4.09	28.71	16	202	53	97	0.15	0.1	2.763	0.117	4	1	2	24
PL.56937	PL.56936	C	#2 ACSR	7.25Y	120.8	0.11	4.19	28.20	16	198	52	97	0.16	0.1	2.885	0.122	0	0	0	22
PL.56938	PL.56937	C	#2 ACSR	7.25Y	120.8	0.00	4.19	1.85	1	13	3	97	0.00	0.0	2.935	0.050	13	3	1	1
PL.56939	PL.56937	C	#2 ACSR	7.25Y	120.8	0.00	4.19	0.65	0	5	1	98	0.00	0.0	2.948	0.064	5	1	1	1
PL.56940	PL.56937	C	#2 ACSR	7.25Y	120.8	0.03	4.23	25.70	15	180	48	97	0.05	0.0	2.928	0.043	0	0	0	20
PL.41658	PL.56940	C	#2 ACSR	7.24Y	120.7	0.03	4.26	23.00	13	161	43	97	0.04	0.0	2.969	0.041	0	0	0	19
PL.41836	PL.41658	C	#4 ACSR	7.24Y	120.7	0.00	4.26	1.33	1	9	2	98	0.00	0.0	3.016	0.047	9	2	1	1
PL.41659	PL.41658	C	#2 ACSR	7.24Y	120.7	0.06	4.31	21.66	12	152	40	97	0.06	0.0	3.053	0.084	7	2	1	18
PL.41660	PL.41659	C	#2 ACSR	7.24Y	120.7	0.02	4.33	20.72	12	145	38	97	0.02	0.0	3.081	0.028	21	6	2	17
PL.62048	PL.41660	C	#2 ACSR	7.24Y	120.6	0.03	4.36	17.73	10	124	33	97	0.03	0.0	3.139	0.058	0	0	1	15
PL.61542	PL.62048	C	#4 ACSR	7.24Y	120.6	0.00	4.37	1.45	1	10	3	96	0.00	0.0	3.214	0.075	0	0	0	1
PL.41790	PL.61542	C	#4 ACSR	7.24Y	120.6	0.00	4.37	1.45	1	10	3	96	0.00	0.0	3.268	0.054	10	3	1	1
PL.61543	PL.62048	C	#4 ACSR	7.24Y	120.6	0.04	4.40	7.57	6	53	14	97	0.02	0.0	3.273	0.134	12	3	2	6
PL.56614	PL.61543	C	#2 ACSR	7.24Y	120.6	0.00	4.40	1.43	1	10	3	96	0.00	0.0	3.341	0.068	10	3	1	1
PL.56613	PL.61543	C	#1/0 ACSR	7.24Y	120.6	0.00	4.40	1.65	1	12	3	97	0.00	0.0	3.277	0.004	0	0	0	1
PD.8313	PL.56613	C	20QA	7.24Y	120.6	0.00	4.40	1.65	8	12	3	97	0.00	0.0	3.277	0.004	0	0	0	1

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.57481	PD.8313	C	#1/0 ACSR	7.24Y	120.6	0.00	4.40	1.65	1	12	3	97	0.00	0.0	3.365	0.088	12	3	1	1
PL.56612	PL.61543	C	#4 ACSR	7.24Y	120.6	0.01	4.41	2.72	2	19	5	97	0.00	0.0	3.329	0.056	9	2	1	2
PL.56615	PL.56612	C	1/0 AL URD	7.24Y	120.6	0.00	4.41	1.43	1	10	3	96	0.00	0.0	3.348	0.019	10	3	1	1
PL.61544	PL.62048	C	#2 ACSR	7.24Y	120.6	0.04	4.41	8.67	5	61	16	97	0.02	0.0	3.298	0.159	0	0	0	7
PL.64087	PL.61544	C	#2 ACSR	7.24Y	120.6	0.00	4.41	2.30	1	16	4	97	0.00	0.0	3.412	0.114	16	4	1	1
PL.41334	PL.61544	C	#4 ACSR	7.24Y	120.6	0.00	4.41	0.42	0	3	1	95	0.00	0.0	3.355	0.058	3	1	1	1
PL.56245	PL.61544	C	#2 ACSR	7.23Y	120.6	0.02	4.43	5.95	3	42	11	97	0.01	0.0	3.423	0.126	0	0	0	5
PL.56246	PL.56245	C	#2 ACSR	7.23Y	120.6	0.01	4.44	4.17	2	29	8	96	0.00	0.0	3.498	0.075	10	3	1	4
PL.56391	PL.56246	C	#2 ACSR	7.23Y	120.6	0.00	4.44	2.68	2	19	5	97	0.00	0.0	3.568	0.070	19	5	3	3
PL.56247	PL.56245	C	#2 ACSR	7.23Y	120.6	0.00	4.43	1.78	1	12	3	97	0.00	0.0	3.440	0.016	12	3	1	1
PL.56589	PL.56245	C	#2 ACSR	7.23Y	120.6	0.00	4.43	0.00	0	0	0	100	0.00	0.0	3.447	0.024	0	0	0	0
PL.56590	PL.56589	C	#2 ACSR	7.23Y	120.6	0.00	4.43	0.00	0	0	0	100	0.00	0.0	3.474	0.027	0	0	0	0
PL.56591	PL.56589	C	1/0 AL URD	7.23Y	120.6	0.00	4.43	0.00	0	0	0	100	0.00	0.0	3.599	0.152	0	0	0	0
PL.42032	PL.56940	C	#2 ACSR	7.25Y	120.8	0.00	4.23	2.70	2	19	5	97	0.00	0.0	2.946	0.019	19	5	1	1
PL.56485	PL.41436	ABC	#1/0 ACSR	7.26Y	121.0	0.03	4.00	27.15	12	572	152	97	0.10	0.0	2.695	0.055	34	9	3	68
PL.56778	PL.56485	ABC	#1/0 ACSR	7.26Y	121.0	0.02	4.02	25.53	11	537	143	97	0.08	0.0	2.741	0.045	0	0	1	65
PL.56779	PL.56778	ABC	#1/0 ACSR	7.26Y	121.0	0.02	4.04	25.53	11	537	143	97	0.07	0.0	2.778	0.038	0	0	0	64
PL.42263	PL.56779	ABC	#1/0 ACSR	7.26Y	120.9	0.02	4.06	25.53	11	537	143	97	0.08	0.0	2.826	0.048	7	2	1	64
PL.41791	PL.42263	ABC	#1/0 ACSR	7.26Y	120.9	0.02	4.08	24.38	11	513	136	97	0.06	0.0	2.866	0.041	0	0	0	61
PL.56941	PL.41791	ABC	#1/0 ACSR	7.25Y	120.9	0.02	4.10	24.38	11	513	136	97	0.07	0.0	2.909	0.042	0	0	0	61
PL.56943	PL.56941	ABC	#1/0 ACSR	7.25Y	120.9	0.03	4.13	23.67	10	498	132	97	0.11	0.0	2.986	0.078	15	4	2	59
PL.56944	PL.56943	ABC	#1/0 ACSR	7.25Y	120.8	0.04	4.17	22.96	10	483	128	97	0.15	0.0	3.092	0.106	0	0	0	57
PL.56945	PL.56944	ABC	#1/0 ACSR	7.25Y	120.8	0.02	4.20	22.96	10	483	128	97	0.07	0.0	3.144	0.051	0	0	0	57
PL.52114	PL.56945	ABC	#1/0 ACSR	7.25Y	120.8	0.03	4.22	22.96	10	483	128	97	0.10	0.0	3.213	0.070	10	3	2	57
PL.52113	PL.52114	ABC	#1/0 ACSR	7.24Y	120.7	0.03	4.26	17.72	8	372	99	97	0.09	0.0	3.323	0.110	0	0	0	43
PL.42559	PL.52113	A	#4 ACSR	7.24Y	120.7	0.00	4.26	3.77	3	26	7	97	0.00	0.0	3.329	0.006	0	0	0	2
PD.6630	PL.42559	A	10QA	7.24Y	120.7	0.00	4.26	3.77	0	26	7	97	0.00	0.0	3.329	0.006	0	0	0	2
PL.56616	PD.6630	A	#4 ACSR	7.24Y	120.7	0.01	4.27	3.77	3	26	7	97	0.00	0.0	3.441	0.112	26	7	2	2
PL.42558	PL.52113	ABC	#1/0 ACSR	7.24Y	120.7	0.03	4.29	16.33	7	343	91	97	0.07	0.0	3.428	0.105	0	0	0	40
PL.42561	PL.42558	A	#2 ACSR	7.24Y	120.7	0.00	4.29	0.52	0	4	1	97	0.00	0.0	3.433	0.006	0	0	0	2
PD.6614	PL.42561	A	10QA	7.24Y	120.7	0.00	4.29	0.52	0	4	1	97	0.00	0.0	3.433	0.006	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.51930	PD.6614	A	#2 ACSR	7.24Y	120.7	0.00	4.29	0.52	0	4	1	97	0.00	0.0	3.483	0.050	4	1	2	2
PL.57906	PL.42558	ABC	#1/0 ACSR	7.24Y	120.7	0.02	4.30	12.80	6	269	71	97	0.03	0.0	3.495	0.067	12	3	1	31
PL.57907	PL.57906	ABC	#1/0 ACSR	7.24Y	120.7	0.02	4.33	12.25	5	257	68	97	0.04	0.0	3.602	0.107	11	3	1	30
PL.42566	PL.57907	ABC	#1/0 ACSR	7.24Y	120.7	0.01	4.33	11.74	5	247	65	97	0.01	0.0	3.635	0.032	0	0	0	29
PL.42567	PL.42566	ABC	#1/0 ACSR	7.24Y	120.7	0.01	4.34	11.74	5	247	65	97	0.01	0.0	3.673	0.038	0	0	0	29
PL.42568	PL.42567	ABC	#1/0 ACSR	7.24Y	120.7	0.00	4.34	11.74	5	247	65	97	0.00	0.0	3.673	0.000	2	1	1	29
PL.42569	PL.42568	C	#4 ACSR	7.24Y	120.7	0.00	4.34	2.17	2	15	4	97	0.00	0.0	3.679	0.006	0	0	0	2
PD.6655	PL.42569	C	30QA	7.24Y	120.7	0.00	4.34	2.17	7	15	4	97	0.00	0.0	3.679	0.006	0	0	0	2
PL.56400	PD.6655	C	#4 ACSR	7.24Y	120.7	0.01	4.35	2.17	2	15	4	97	0.00	0.0	3.799	0.120	13	3	1	2
PL.56401	PL.56400	C	#4 ACSR	7.24Y	120.6	0.00	4.35	0.39	0	3	1	95	0.00	0.0	3.913	0.114	3	1	1	1
PL.42007	PL.42568	ABC	#1/0 ACSR	7.24Y	120.6	0.02	4.36	10.92	5	229	61	97	0.03	0.0	3.771	0.098	0	0	0	26
PL.42010	PL.42007	C	#2 ACSR	7.24Y	120.6	0.00	4.36	1.49	1	10	3	96	0.00	0.0	3.777	0.006	0	0	0	1
PD.6767	PL.42010	C	30QA	7.24Y	120.6	0.00	4.36	1.49	5	10	3	96	0.00	0.0	3.777	0.006	0	0	0	1
PL.42011	PD.6767	C	#2 ACSR	7.24Y	120.6	0.00	4.36	1.49	1	10	3	96	0.00	0.0	3.923	0.146	10	3	1	1
PL.42012	PL.42007	ABC	#1/0 ACSR	7.24Y	120.6	0.01	4.38	9.02	4	189	50	97	0.02	0.0	3.864	0.093	30	8	3	23
PL.56233	PL.42012	ABC	#1/0 ACSR	7.24Y	120.6	0.01	4.39	7.60	3	160	42	97	0.01	0.0	3.960	0.096	8	2	1	20
PL.56232	PL.56233	ABC	#1/0 ACSR	7.24Y	120.6	0.00	4.39	4.12	2	86	23	97	0.00	0.0	4.015	0.055	2	0	1	13
PL.51969	PL.56232	B	6 A (CWC)	7.24Y	120.6	0.00	4.39	12.10	9	85	22	97	0.00	0.0	4.021	0.006	0	0	0	12
PD.6635	PL.51969	B	40QA	7.24Y	120.6	0.00	4.39	12.10	30	85	22	97	0.00	0.0	4.021	0.006	0	0	0	12
PL.41305	PD.6635	B	6 A (CWC)	7.23Y	120.6	0.03	4.42	12.10	9	85	22	97	0.02	0.0	4.077	0.056	18	5	2	12
PL.56229	PL.41305	B	6 A (CWC)	7.23Y	120.6	0.02	4.45	8.34	6	58	15	97	0.01	0.0	4.148	0.071	14	4	1	8
PL.56230	PL.56229	B	6 A (CWC)	7.23Y	120.5	0.01	4.46	6.37	5	45	12	97	0.00	0.0	4.205	0.057	8	2	1	7
PL.56231	PL.56230	B	6 A (CWC)	7.23Y	120.5	0.01	4.47	5.16	4	36	10	96	0.00	0.0	4.249	0.044	0	0	0	6
PL.41608	PL.56231	B	6 A (CWC)	7.23Y	120.5	0.02	4.49	5.16	4	36	10	96	0.01	0.0	4.347	0.098	2	1	1	6
PL.42120	PL.41608	B	6 A (CWC)	7.23Y	120.5	0.00	4.50	1.23	1	9	2	98	0.00	0.0	4.390	0.043	9	2	1	1
PL.41609	PL.41608	B	6 A (CWC)	7.23Y	120.5	0.01	4.50	3.64	3	25	7	96	0.00	0.0	4.387	0.040	11	3	1	4
PL.41689	PL.41609	B	6 A (CWC)	7.23Y	120.5	0.00	4.50	2.08	1	15	4	97	0.00	0.0	4.422	0.035	0	0	0	3
PL.41499	PL.41689	B	6 A (CWC)	7.23Y	120.5	0.00	4.50	0.67	0	5	1	98	0.00	0.0	4.551	0.128	5	1	1	2
PL.41016	PL.41499	B	#2 ACSR	7.23Y	120.5	0.00	4.50	0.00	0	0	0	100	0.00	0.0	4.697	0.146	0	0	1	1
PL.41500	PL.41499	B	6 A (CWC)	7.23Y	120.5	0.00	4.50	0.00	0	0	0	100	0.00	0.0	4.598	0.047	0	0	0	0
PL.41695	PL.41689	B	#2 ACSR	7.23Y	120.5	0.00	4.50	1.41	1	10	3	96	0.00	0.0	4.462	0.040	10	3	1	1

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41837	PL.41305	B	6 A (CWC)	7.23Y	120.6	0.00	4.42	0.63	0	4	1	97	0.00	0.0	4.167	0.090	4	1	1	1
PL.41353	PL.41305	B	6 A (CWC)	7.23Y	120.6	0.00	4.42	0.51	0	4	1	97	0.00	0.0	4.129	0.052	4	1	1	1
PL.56234	PL.56233	C	#4 ACSR	7.24Y	120.6	0.00	4.39	2.46	2	17	5	96	0.00	0.0	3.966	0.006	0	0	0	2
PD.6633	PL.56234	C	10QA	7.24Y	120.6	0.00	4.39	2.46	0	17	5	96	0.00	0.0	3.966	0.006	0	0	0	2
PL.42014	PD.6633	C	#4 ACSR	7.24Y	120.6	0.00	4.39	2.46	2	17	5	96	0.00	0.0	4.040	0.074	17	5	2	2
PL.56235	PL.56233	A	#4 ACSR	7.24Y	120.6	0.02	4.41	6.88	5	48	13	97	0.01	0.0	4.022	0.063	0	0	0	4
PL.41278	PL.56235	A	#4/0 ACSR	7.24Y	120.6	0.00	4.41	0.25	0	2	0	100	0.00	0.0	4.121	0.099	2	0	1	1
PL.42033	PL.56235	A	#4 ACSR	7.23Y	120.6	0.03	4.43	6.63	5	46	12	97	0.01	0.0	4.117	0.095	0	0	0	3
PL.42035	PL.42033	A	#4/0 ACSR	7.23Y	120.6	0.00	4.44	2.33	1	16	4	97	0.00	0.0	4.123	0.006	0	0	0	2
PD.6634	PL.42035	A	25QA	7.23Y	120.6	0.00	4.44	2.33	9	16	4	97	0.00	0.0	4.123	0.006	0	0	0	2
PL.42036	PD.6634	A	#4/0 ACSR	7.23Y	120.6	0.00	4.44	2.33	1	16	4	97	0.00	0.0	4.253	0.130	16	4	2	2
PL.42034	PL.42033	A	#4 ACSR	7.23Y	120.6	0.01	4.45	4.30	3	30	8	97	0.00	0.0	4.238	0.121	30	8	1	1
PL.41543	PL.42012	C	#2 ACSR	7.24Y	120.6	0.00	4.38	0.00	0	0	0	100	0.00	0.0	3.899	0.035	0	0	0	0
PL.42013	PL.42012	C	#4 ACSR	7.24Y	120.6	0.00	4.38	0.00	0	0	0	100	0.00	0.0	3.870	0.006	0	0	0	0
PD.6632	PL.42013	C	10QA	7.24Y	120.6	0.00	4.38	0.00	0	0	0	100	0.00	0.0	3.870	0.006	0	0	0	0
PL.63464	PD.6632	C	#4 ACSR	7.24Y	120.6	0.00	4.38	0.00	0	0	0	100	0.00	0.0	3.898	0.029	0	0	0	0
PL.42008	PL.42007	A	#2 ACSR	7.24Y	120.6	0.00	4.36	4.21	2	29	8	96	0.00	0.0	3.777	0.006	0	0	0	2
PD.6631	PL.42008	A	10QA	7.24Y	120.6	0.00	4.36	4.21	0	29	8	96	0.00	0.0	3.777	0.006	0	0	0	2
PL.42009	PD.6631	A	#2 ACSR	7.24Y	120.6	0.00	4.36	4.21	2	29	8	96	0.00	0.0	3.795	0.018	29	8	2	2
PL.42562	PL.42558	A	6 A (CWC)	7.24Y	120.7	0.00	4.29	10.06	7	70	19	97	0.00	0.0	3.433	0.006	0	0	0	7
PD.6425	PL.42562	A	20QA	7.24Y	120.7	0.00	4.29	10.06	50	70	19	97	0.00	0.0	3.433	0.006	0	0	0	7
PL.42563	PD.6425	A	6 A (CWC)	7.24Y	120.7	0.04	4.33	10.06	7	70	19	97	0.02	0.0	3.528	0.094	20	5	1	7
PL.42564	PL.42563	A	6 A (CWC)	7.24Y	120.7	0.00	4.33	0.98	1	7	2	96	0.00	0.0	3.568	0.040	0	0	0	1
PL.42565	PL.42564	A	6 A (CWC)	7.24Y	120.7	0.00	4.33	0.98	1	7	2	96	0.00	0.0	3.663	0.095	7	2	1	1
PL.56617	PL.42563	A	#2 ACSR	7.24Y	120.7	0.01	4.34	6.21	4	43	11	97	0.00	0.0	3.618	0.090	43	11	5	5
PL.42560	PL.52113	C	#4 ACSR	7.24Y	120.7	0.00	4.26	0.40	0	3	1	95	0.00	0.0	3.329	0.006	0	0	0	1
PD.6629	PL.42560	C	10QA	7.24Y	120.7	0.00	4.26	0.40	0	3	1	95	0.00	0.0	3.329	0.006	0	0	0	1
PL.52116	PD.6629	C	#4 ACSR	7.24Y	120.7	0.00	4.26	0.40	0	3	1	95	0.00	0.0	3.361	0.033	3	1	1	1
PL.52112	PL.52114	C	#4/0 ACSR	7.25Y	120.8	0.00	4.22	14.31	4	100	27	97	0.00	0.0	3.219	0.006	0	0	0	12
PD.6534	PL.52112	C	30QA	7.25Y	120.8	0.00	4.22	14.31	48	100	27	97	0.00	0.0	3.219	0.006	0	0	0	12
PL.41792	PD.6534	C	#4/0 ACSR	7.25Y	120.8	0.00	4.23	14.31	4	100	27	97	0.00	0.0	3.233	0.014	0	0	0	12

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41793	PL.41792	C	#4/0 ACSR	7.25Y	120.8	0.01	4.24	14.31	4	100	27	97	0.01	0.0	3.289	0.056	2	1	2	12
PL.52115	PL.41793	C	#4/0 ACSR	7.25Y	120.8	0.01	4.25	13.97	4	98	26	97	0.01	0.0	3.339	0.050	11	3	1	10
PL.52121	PL.52115	C	#4/0 ACSR	7.24Y	120.7	0.02	4.27	12.42	4	87	23	97	0.01	0.0	3.451	0.112	0	0	0	9
PL.52120	PL.52121	C	6 A (CWC)	7.24Y	120.7	0.00	4.27	0.75	1	5	1	98	0.00	0.0	3.542	0.091	5	1	1	1
PL.52123	PL.52121	C	#4/0 ACSR	7.24Y	120.7	0.00	4.27	2.93	1	20	5	97	0.00	0.0	3.561	0.110	8	2	1	2
PL.52117	PL.52123	C	#4/0 ACSR	7.24Y	120.7	0.00	4.27	1.80	1	13	3	97	0.00	0.0	3.645	0.084	13	3	1	1
PL.52124	PL.52117	C	#4/0 ACSR	7.24Y	120.7	0.00	4.27	0.00	0	0	0	100	0.00	0.0	3.900	0.254	0	0	0	0
PL.52119	PL.52121	C	#4/0 ACSR	7.24Y	120.7	0.00	4.27	1.51	0	11	3	96	0.00	0.0	3.542	0.091	11	3	2	2
PL.66121	PL.52121	C	#4 ACSR	7.24Y	120.7	0.01	4.28	7.23	6	51	13	97	0.00	0.0	3.482	0.030	6	2	1	4
PL.66122	PL.66121	C	#4 ACSR	7.24Y	120.7	0.02	4.29	6.34	5	44	12	96	0.00	0.0	3.572	0.091	28	7	2	3
PL.52118	PL.66122	C	#4 ACSR	7.24Y	120.7	0.00	4.30	2.35	2	16	4	97	0.00	0.0	3.598	0.026	16	4	1	1
PL.56942	PL.56941	C	#2 ACSR	7.25Y	120.9	0.00	4.10	2.13	1	15	4	97	0.00	0.0	2.914	0.006	0	0	0	2
PD.6628	PL.56942	C	10QA	7.25Y	120.9	0.00	4.10	2.13	0	15	4	97	0.00	0.0	2.914	0.006	0	0	0	2
PL.52111	PD.6628	C	#2 ACSR	7.25Y	120.9	0.00	4.10	2.13	1	15	4	97	0.00	0.0	2.947	0.033	15	4	2	2
PL.51752	PL.42263	C	#4 ACSR	7.26Y	120.9	0.00	4.06	2.49	2	17	5	96	0.00	0.0	2.860	0.034	6	2	1	2
PL.51754	PL.51752	C	#4 ACSR	7.26Y	120.9	0.00	4.07	1.64	1	12	3	97	0.00	0.0	2.866	0.006	0	0	0	1
PD.6627	PL.51754	C	25QA	7.26Y	120.9	0.00	4.07	1.64	7	12	3	97	0.00	0.0	2.866	0.006	0	0	0	1
PL.51755	PD.6627	C	#4 ACSR	7.26Y	120.9	0.00	4.07	1.64	1	12	3	97	0.00	0.0	2.953	0.088	12	3	1	1
PL.51753	PL.51752	C	#4 ACSR	7.26Y	120.9	0.00	4.06	0.00	0	0	0	100	0.00	0.0	2.876	0.017	0	0	0	0
PL.41437	PL.41435	A	#2 ACSR	7.26Y	121.1	0.00	3.92	1.72	1	12	3	97	0.00	0.0	2.571	0.006	0	0	0	1
PD.6626	PL.41437	A	25QA	7.26Y	121.1	0.00	3.92	1.72	7	12	3	97	0.00	0.0	2.571	0.006	0	0	0	1
PL.51751	PD.6626	A	#2 ACSR	7.26Y	121.1	0.00	3.92	1.72	1	12	3	97	0.00	0.0	2.588	0.017	12	3	1	1
PL.41037	PL.51931	C	#2 ACSR	7.28Y	121.3	0.00	3.71	2.15	1	15	4	97	0.00	0.0	2.277	0.006	0	0	0	2
PD.6587	PL.41037	C	20QA	7.28Y	121.3	0.00	3.71	2.15	11	15	4	97	0.00	0.0	2.277	0.006	0	0	0	2
PL.41038	PD.6587	C	#2 ACSR	7.28Y	121.3	0.00	3.71	2.15	1	15	4	97	0.00	0.0	2.311	0.034	12	3	1	2
PL.41431	PL.41038	C	#2 ACSR	7.28Y	121.3	0.00	3.71	0.40	0	3	1	95	0.00	0.0	2.351	0.040	3	1	1	1
PL.56933	PL.56961	C	#2 ACSR	7.30Y	121.6	0.00	3.41	0.89	1	6	2	95	0.00	0.0	1.984	0.006	0	0	0	2
PD.8334	PL.56933	C	60QA	7.30Y	121.6	0.00	3.41	0.89	1	6	2	95	0.00	0.0	1.984	0.006	0	0	0	2
PL.57973	PD.8334	C	#2 ACSR	7.30Y	121.6	0.00	3.41	0.89	1	6	2	95	0.00	0.0	2.011	0.027	6	2	2	2
PL.57974	PL.57973	C	#2 ACSR	7.30Y	121.6	0.00	3.41	0.00	0	0	0	100	0.00	0.0	2.031	0.020	0	0	0	0
PL.59395	PL.41786	B	#1/0 ACSR	7.32Y	122.0	0.00	2.95	4.08	2	29	8	96	0.00	0.0	1.789	0.039	29	8	2	2

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41785	PL.56506	C	6 A (CWC)	7.34Y	122.3	0.00	2.74	3.72	3	26	7	97	0.00	0.0	1.654	0.006	0	0	0	3
PD.6537	PL.41785	C	60QA	7.34Y	122.3	0.00	2.74	3.72	6	26	7	97	0.00	0.0	1.654	0.006	0	0	0	3
PL.56650	PD.6537	C	6 A (CWC)	7.33Y	122.2	0.03	2.77	3.72	3	26	7	97	0.01	0.0	1.809	0.155	0	0	0	3
PL.56651	PL.56650	C	6 A (CWC)	7.33Y	122.2	0.01	2.77	3.72	3	26	7	97	0.00	0.0	1.862	0.052	14	4	1	3
PL.59334	PL.56651	C	6 A (CWC)	7.33Y	122.2	0.00	2.77	0.02	0	0	0	100	0.00	0.0	1.899	0.037	0	0	1	1
PL.56652	PL.56651	C	6 A (CWC)	7.33Y	122.2	0.00	2.78	1.72	1	12	3	97	0.00	0.0	1.930	0.068	12	3	1	1
PL.59364	PL.59363	A	6 A (CWC)	7.40Y	123.3	0.07	1.73	46.68	33	334	89	97	0.18	0.1	1.181	0.034	11	3	1	44
PL.41892	PL.59364	A	6 A (CWC)	7.39Y	123.2	0.08	1.82	45.20	32	323	86	97	0.20	0.1	1.223	0.042	12	3	2	43
PL.56227	PL.41892	A	6 A (CWC)	7.38Y	123.0	0.14	1.96	41.14	29	294	78	97	0.30	0.1	1.295	0.072	0	0	0	38
PL.56719	PL.56227	A	6 A (CWC)	7.38Y	123.0	0.05	2.00	41.14	29	294	78	97	0.11	0.0	1.321	0.026	0	0	0	38
PL.56733	PL.56719	A	6 A (CWC)	7.38Y	123.0	0.01	2.01	5.05	4	36	10	96	0.00	0.0	1.383	0.062	26	7	2	4
PL.56727	PL.56733	A	#1/0 ACSR	7.38Y	123.0	0.00	2.01	1.45	1	10	3	96	0.00	0.0	1.402	0.019	10	3	2	2
PL.56720	PL.56719	A	6 A (CWC)	7.38Y	123.0	0.01	2.01	36.08	26	257	68	97	0.02	0.0	1.327	0.006	0	0	0	34
PD.6803	PL.56720	A	50L	7.38Y	123.0	0.00	2.01	36.08	72	257	68	97	0.00	0.0	1.327	0.006	0	0	0	34
PL.56721	PD.6803	A	6 A (CWC)	7.37Y	122.9	0.13	2.14	36.08	26	257	68	97	0.24	0.1	1.406	0.080	21	6	3	34
PL.56731	PL.56721	A	6 A (CWC)	7.37Y	122.8	0.08	2.21	33.15	24	236	63	97	0.13	0.1	1.458	0.051	13	3	2	31
PL.56732	PL.56731	A	6 A (CWC)	7.36Y	122.7	0.07	2.29	29.06	21	207	55	97	0.11	0.1	1.514	0.057	9	2	1	28
PL.63465	PL.56732	A	6 A (CWC)	7.36Y	122.6	0.11	2.40	27.80	20	198	52	97	0.16	0.1	1.604	0.090	15	4	2	27
PL.63466	PL.63465	A	6 A (CWC)	7.35Y	122.6	0.04	2.43	25.64	18	182	48	97	0.05	0.0	1.636	0.032	13	3	2	25
PL.57095	PL.63466	A	6 A (CWC)	7.35Y	122.5	0.04	2.47	23.87	17	170	45	97	0.05	0.0	1.675	0.038	10	3	2	23
PL.57129	PL.57095	A	6 A (CWC)	7.35Y	122.5	0.02	2.49	22.37	16	159	42	97	0.02	0.0	1.695	0.020	0	0	0	20
PL.57131	PL.57129	A	6 A (CWC)	7.35Y	122.5	0.05	2.54	22.37	16	159	42	97	0.06	0.0	1.744	0.049	0	0	0	20
PL.57133	PL.57131	A	#1/0 ACSR	7.35Y	122.5	0.00	2.55	1.57	1	11	3	96	0.00	0.0	1.804	0.060	11	3	1	1
PL.57132	PL.57131	A	6 A (CWC)	7.34Y	122.4	0.07	2.62	20.80	15	148	39	97	0.08	0.1	1.823	0.079	10	3	1	19
PL.57130	PL.57132	A	6 A (CWC)	7.34Y	122.4	0.03	2.64	17.19	12	122	32	97	0.02	0.0	1.859	0.035	14	4	1	13
PL.42017	PL.57130	A	6 A (CWC)	7.34Y	122.3	0.02	2.66	15.16	11	108	28	97	0.02	0.0	1.893	0.034	20	5	2	12
PL.42018	PL.42017	A	6 A (CWC)	7.34Y	122.3	0.04	2.70	10.14	7	72	19	97	0.02	0.0	1.986	0.093	11	3	1	9
PL.59272	PL.42018	A	6 A (CWC)	7.34Y	122.3	0.00	2.71	1.44	1	10	3	96	0.00	0.0	2.032	0.047	10	3	1	1
PL.42019	PL.42018	A	6 A (CWC)	7.34Y	122.3	0.02	2.72	7.16	5	51	13	97	0.01	0.0	2.038	0.052	0	0	0	7
PL.42020	PL.42019	A	6 A (CWC)	7.34Y	122.3	0.01	2.73	5.67	4	40	11	96	0.00	0.0	2.080	0.042	0	0	0	6
PL.52007	PL.42020	A	6 A (CWC)	7.33Y	122.2	0.03	2.76	2.79	2	20	5	97	0.00	0.0	2.326	0.246	0	0	0	4

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.56409	PL.52007	A	#4 ACSR	7.33Y	122.2	0.00	2.77	1.27	1	9	2	98	0.00	0.0	2.448	0.122	9	2	1	1
PL.56672	PL.52007	A	6 A (CWC)	7.33Y	122.2	0.01	2.77	1.52	1	11	3	96	0.00	0.0	2.474	0.148	0	0	0	3
PL.56673	PL.56672	A	6 A (CWC)	7.33Y	122.2	0.01	2.78	1.52	1	11	3	96	0.00	0.0	2.558	0.083	0	0	0	3
PL.56670	PL.56673	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	1.48	1	11	3	96	0.00	0.0	2.585	0.027	6	2	1	2
PL.56671	PL.56670	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.62	0	4	1	97	0.00	0.0	2.630	0.045	4	1	1	1
PL.41883	PL.56671	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	2.721	0.091	0	0	0	0
PL.41631	PL.56673	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.03	0	0	0	100	0.00	0.0	2.611	0.054	0	0	1	1
PL.52008	PL.52007	A	6 A (CWC)	7.33Y	122.2	0.00	2.76	0.00	0	0	0	100	0.00	0.0	2.457	0.131	0	0	0	0
PL.41853	PL.42020	A	6 A (CWC)	7.34Y	122.3	0.00	2.74	2.88	2	20	5	97	0.00	0.0	2.128	0.048	20	5	2	2
PL.41554	PL.42019	A	#4 ACSR	7.34Y	122.3	0.00	2.72	1.48	1	11	3	96	0.00	0.0	2.088	0.050	11	3	1	1
PL.41502	PL.42017	A	#4 ACSR	7.34Y	122.3	0.00	2.67	2.14	2	15	4	97	0.00	0.0	1.936	0.043	15	4	1	1
PL.57179	PL.57132	A	#2 ACSR	7.34Y	122.4	0.00	2.62	2.18	1	15	4	97	0.00	0.0	1.876	0.053	8	2	2	5
PL.57180	PL.57179	A	#2 ACSR	7.34Y	122.4	0.00	2.62	1.04	1	7	2	96	0.00	0.0	1.937	0.061	7	2	3	3
PL.57128	PL.57132	A	#2 ACSR	7.34Y	122.4	0.00	2.62	0.00	0	0	0	100	0.00	0.0	1.867	0.043	0	0	0	0
PL.57096	PL.57095	A	#2 ACSR	7.35Y	122.5	0.00	2.47	0.04	0	0	0	100	0.00	0.0	1.706	0.032	0	0	1	1
PL.56656	PL.56731	A	#4 ACSR	7.37Y	122.8	0.01	2.22	2.30	2	16	4	97	0.00	0.0	1.599	0.141	16	4	1	1
PL.56503	PL.41892	A	6 A (CWC)	7.39Y	123.2	0.00	1.82	2.35	2	17	4	97	0.00	0.0	1.294	0.071	17	4	3	3
PL.59280	Keavy 2	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	134.04	26	2902	821	96	0.04	0.0	0.003	0.003	0	0	0	352
PL.59281	PL.59280	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	134.04	26	2902	820	96	0.03	0.0	0.005	0.002	0	0	0	352
---------- Feeder No. 5 (Locust Grove F5) Beginning with Device PD.8770 ----------																				
PD.8770	PL.59281	ABC	400VWE	7.50Y	125.0	0.00	0.01	134.04	0	2902	820	96	0.00	0.0	0.005	0.002	0	0	0	352
PL.59279	PD.8770	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	134.04	26	2902	820	96	0.06	0.0	0.009	0.004	0	0	0	352
PL.59426	PL.59279	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	0.010	0.001	0	0	0	0
PD.8769-A	PL.59426	ABC	Open	7.50Y	125.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	0.010	0.001	0	0	0	0
PL.59425	PL.59279	ABC	336 MCM AC	7.50Y	125.0	0.02	0.03	134.04	26	2902	820	96	0.31	0.0	0.029	0.020	0	0	0	352
PL.59422	PL.59425	ABC	336 MCM AC	7.49Y	124.8	0.17	0.20	134.04	26	2902	820	96	2.60	0.1	0.201	0.172	0	0	0	352
PL.59411	PL.59422	C	6 A (CWC)	7.49Y	124.8	0.00	0.20	8.08	6	58	15	97	0.00	0.0	0.207	0.006	0	0	0	2
PD.6448	PL.59411	C	75QA	7.49Y	124.8	0.00	0.20	8.08	11	58	15	97	0.00	0.0	0.207	0.006	0	0	0	2
PL.42651	PD.6448	C	6 A (CWC)	7.49Y	124.8	0.00	0.21	8.08	6	58	15	97	0.00	0.0	0.223	0.017	58	15	2	2

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.59410	PL.59422	ABC	336 MCM AC	7.48Y	124.7	0.06	0.26	131.34	25	2840	798	96	0.89	0.0	0.262	0.061	0	0	0	350
PL.41531	PL.59410	ABC	336 MCM AC	7.48Y	124.6	0.13	0.39	129.72	25	2804	787	96	1.90	0.1	0.397	0.135	15	4	1	345
PL.55734	PL.41531	ABC	336 MCM AC	7.47Y	124.5	0.07	0.46	129.02	25	2787	778	96	1.00	0.0	0.469	0.072	18	5	2	344
PL.55735	PL.55734	ABC	336 MCM AC	7.47Y	124.5	0.04	0.50	128.18	25	2768	771	96	0.62	0.0	0.514	0.045	13	3	2	342
PL.41535	PL.55735	ABC	336 MCM AC	7.46Y	124.4	0.09	0.60	124.96	24	2698	751	96	1.32	0.0	0.615	0.100	4	1	1	331
PL.55699	PL.41535	ABC	336 MCM AC	7.46Y	124.4	0.05	0.65	124.78	24	2693	747	96	0.71	0.0	0.669	0.054	2	1	1	330
PL.55627	PL.55699	ABC	#1/0 ACSR	7.45Y	124.2	0.16	0.81	123.28	54	2659	737	96	2.92	0.1	0.741	0.072	0	0	0	326
PL.55630	PL.55627	ABC	#1/0 ACSR	7.45Y	124.1	0.08	0.89	122.14	53	2632	728	96	1.43	0.1	0.777	0.036	6	2	1	323
PL.55631	PL.55630	ABC	#1/0 ACSR	7.44Y	124.0	0.07	0.95	121.85	53	2624	724	96	1.19	0.0	0.807	0.030	29	8	4	322
PL.55629	PL.55631	ABC	#1/0 ACSR	7.43Y	123.8	0.20	1.15	120.52	52	2594	716	96	3.54	0.1	0.899	0.092	17	5	1	318
PL.42834	PL.55629	ABC	#1/0 ACSR	7.43Y	123.8	0.08	1.23	119.72	52	2573	708	96	1.43	0.1	0.937	0.037	0	0	0	317
PL.42835	PL.42834	A	#4 ACSR	7.43Y	123.8	0.00	1.23	1.62	1	12	3	97	0.00	0.0	0.942	0.006	0	0	0	1
PD.6453	PL.42835	A	60QA	7.43Y	123.8	0.00	1.23	1.62	3	12	3	97	0.00	0.0	0.942	0.006	0	0	0	1
PL.62265	PD.6453	A	#4 ACSR	7.43Y	123.8	0.00	1.23	1.62	1	12	3	97	0.00	0.0	0.997	0.055	12	3	1	1
PL.42836	PL.42834	ABC	#1/0 ACSR	7.42Y	123.6	0.16	1.39	119.18	52	2560	703	96	2.83	0.1	1.012	0.075	0	0	0	316
PL.42837	PL.42836	ABC	#1/0 ACSR	7.41Y	123.5	0.15	1.54	119.18	52	2557	701	96	2.64	0.1	1.081	0.070	0	0	0	316
PL.62431	PL.42837	ABC	#1/0 ACSR	7.40Y	123.3	0.15	1.69	116.82	51	2504	685	96	2.53	0.1	1.151	0.070	0	0	0	312
PL.62432	PL.62431	ABC	#1/0 ACSR	7.38Y	123.1	0.25	1.94	97.17	42	2081	569	96	3.54	0.2	1.292	0.141	0	0	0	232
PL.42893	PL.62432	C	#4 ACSR	7.38Y	123.1	0.00	1.94	3.75	3	27	7	97	0.00	0.0	1.297	0.006	0	0	0	2
PD.6653	PL.42893	C	60QA	7.38Y	123.1	0.00	1.94	3.75	6	27	7	97	0.00	0.0	1.297	0.006	0	0	0	2
PL.51534	PD.6653	C	#4 ACSR	7.38Y	123.1	0.00	1.94	3.75	3	27	7	97	0.00	0.0	1.331	0.034	27	7	2	2
PL.42894	PL.62432	A	#2 ACSR	7.38Y	123.1	0.00	1.94	2.45	1	17	5	96	0.00	0.0	1.297	0.006	0	0	0	1
PD.6454	PL.42894	A	40QA	7.38Y	123.1	0.00	1.94	2.45	6	17	5	96	0.00	0.0	1.297	0.006	0	0	0	1
PL.51533	PD.6454	A	#2 ACSR	7.38Y	123.1	0.00	1.94	2.45	1	17	5	96	0.00	0.0	1.385	0.088	17	5	1	1
PL.42895	PL.62432	ABC	#1/0 ACSR	7.38Y	122.9	0.14	2.08	95.11	41	2033	554	96	1.96	0.1	1.374	0.082	21	5	1	229
PL.41702	PL.42895	B	#2 ACSR	7.38Y	122.9	0.00	2.08	2.11	1	15	4	97	0.00	0.0	1.454	0.080	15	4	1	1
PL.64789	PL.42895	ABC	#1/0 ACSR	7.38Y	122.9	0.00	2.08	93.44	41	1995	542	97	0.00	0.0	1.374	0.000	0	0	0	227
PL.64790	PL.64789	ABC	#1/0 ACSR	7.37Y	122.8	0.09	2.16	93.44	41	1995	542	97	1.17	0.1	1.425	0.051	42	11	8	227
PL.55905	PL.64790	ABC	#1/0 ACSR	7.37Y	122.8	0.09	2.25	91.09	40	1944	528	97	1.16	0.1	1.478	0.053	14	4	2	218
PL.42899	PL.55905	ABC	#1/0 ACSR	7.36Y	122.6	0.13	2.38	89.68	39	1912	519	97	1.79	0.1	1.561	0.084	0	0	0	214
PL.42900	PL.42899	ABC	#1/0 ACSR	7.35Y	122.6	0.06	2.44	88.98	39	1896	513	97	0.73	0.0	1.596	0.035	15	4	1	212

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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42902	PL.42900	A	6 A (CWC)	7.35Y	122.6	0.01	2.44	26.46	19	188	50	97	0.01	0.0	1.602	0.006	0	0	0	20
PD.6689	PL.42902	A	60QA	7.35Y	122.6	0.00	2.44	26.46	44	188	50	97	0.00	0.0	1.602	0.006	0	0	0	20
PL.42992	PD.6689	A	6 A (CWC)	7.35Y	122.5	0.06	2.50	26.46	19	188	50	97	0.08	0.0	1.652	0.050	8	2	1	20
PL.42993	PL.42992	A	6 A (CWC)	7.34Y	122.4	0.13	2.64	25.30	18	180	48	97	0.17	0.1	1.775	0.123	23	6	3	19
PL.41679	PL.42993	A	6 A (CWC)	7.34Y	122.4	0.00	2.64	4.08	3	29	8	96	0.00	0.0	1.821	0.046	29	8	2	2
PL.42994	PL.42993	A	6 A (CWC)	7.34Y	122.3	0.02	2.65	18.04	13	128	34	97	0.02	0.0	1.795	0.020	0	0	0	14
PL.42780	PL.42994	A	6 A (CWC)	7.34Y	122.3	0.04	2.70	18.04	13	128	34	97	0.04	0.0	1.848	0.054	6	2	1	14
PL.55814	PL.42780	A	6 A (CWC)	7.33Y	122.2	0.07	2.77	17.18	12	122	32	97	0.06	0.0	1.946	0.098	21	5	2	13
PL.55815	PL.55814	A	#2 ACSR	7.33Y	122.2	0.03	2.79	13.91	8	99	26	97	0.02	0.0	2.010	0.064	0	0	0	10
PL.55817	PL.55815	A	#2 ACSR	7.33Y	122.2	0.01	2.80	13.91	8	99	26	97	0.00	0.0	2.026	0.016	10	3	1	10
PL.55816	PL.55817	A	6 A (CWC)	7.33Y	122.2	0.04	2.84	12.48	9	88	23	97	0.02	0.0	2.102	0.077	33	9	3	9
PL.42441	PL.55816	A	6 A (CWC)	7.33Y	122.2	0.01	2.84	7.77	6	55	15	96	0.00	0.0	2.128	0.025	13	3	1	6
PL.55824	PL.42441	A	6 A (CWC)	7.33Y	122.1	0.02	2.87	4.14	3	29	8	96	0.01	0.0	2.248	0.120	0	0	0	4
PL.55837	PL.55824	A	#1/0 ACSR	7.33Y	122.1	0.00	2.87	1.43	1	10	3	96	0.00	0.0	2.296	0.048	10	3	2	2
PL.55825	PL.55824	A	6 A (CWC)	7.33Y	122.1	0.01	2.87	2.71	2	19	5	97	0.00	0.0	2.294	0.046	0	0	0	2
PL.42442	PL.55825	A	6 A (CWC)	7.33Y	122.1	0.01	2.88	2.71	2	19	5	97	0.00	0.0	2.372	0.079	0	0	0	2
PL.42443	PL.42442	A	6 A (CWC)	7.33Y	122.1	0.03	2.91	2.71	2	19	5	97	0.00	0.0	2.631	0.259	0	0	0	2
PL.55492	PL.42443	A	6 A (CWC)	7.33Y	122.1	0.00	2.91	2.15	2	15	4	97	0.00	0.0	2.649	0.018	15	4	1	1
PL.55493	PL.42443	A	6 A (CWC)	7.33Y	122.1	0.00	2.91	0.56	0	4	1	97	0.00	0.0	2.653	0.022	4	1	1	1
PL.55836	PL.55825	A	6 A (CWC)	7.33Y	122.1	0.00	2.87	0.00	0	0	0	100	0.00	0.0	2.343	0.049	0	0	0	0
PL.41741	PL.42441	A	6 A (CWC)	7.33Y	122.2	0.00	2.85	1.83	1	13	3	97	0.00	0.0	2.209	0.082	13	3	1	1
PL.55813	PL.55814	A	6 A (CWC)	7.33Y	122.2	0.00	2.77	0.34	0	2	1	89	0.00	0.0	1.994	0.048	2	1	1	1
PL.41855	PL.42900	ABC	#1/0 ACSR	7.35Y	122.5	0.11	2.54	79.44	35	1691	459	97	1.25	0.1	1.671	0.075	12	3	1	191
PL.42445	PL.41855	ABC	#1/0 ACSR	7.34Y	122.3	0.15	2.70	70.44	31	1498	407	97	1.60	0.1	1.793	0.122	11	3	2	164
PL.42446	PL.42445	ABC	#1/0 ACSR	7.33Y	122.2	0.15	2.85	69.93	30	1486	402	97	1.55	0.1	1.912	0.119	0	0	0	162
PL.55771	PL.42446	ABC	#1/0 ACSR	7.32Y	122.0	0.12	2.96	69.02	30	1465	396	97	1.19	0.1	2.007	0.094	8	2	2	161
PL.55772	PL.55771	ABC	#1/0 ACSR	7.32Y	122.0	0.08	3.05	68.66	30	1456	393	97	0.86	0.1	2.075	0.069	0	0	0	159
PL.52899	PL.55772	C	6 A (CWC)	7.32Y	122.0	0.00	3.05	1.21	1	9	2	98	0.00	0.0	2.081	0.006	0	0	0	1
PD.6467	PL.52899	C	60QA	7.32Y	122.0	0.00	3.05	1.21	2	9	2	98	0.00	0.0	2.081	0.006	0	0	0	1
PL.55773	PD.6467	C	6 A (CWC)	7.32Y	121.9	0.00	3.05	1.21	1	9	2	98	0.00	0.0	2.131	0.050	9	2	1	1
PL.52898	PL.55772	B	#2 ACSR	7.32Y	121.9	0.00	3.05	2.09	1	15	4	97	0.00	0.0	2.113	0.037	15	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.52900	PL.55772	ABC	#1/0 ACSR	7.31Y	121.9	0.09	3.14	67.56	29	1432	386	97	0.93	0.1	2.152	0.077	20	5	2	157
PL.52891	PL.52900	ABC	#1/0 ACSR	7.31Y	121.8	0.11	3.25	66.60	29	1411	379	97	1.04	0.1	2.240	0.088	0	0	0	155
PL.52893	PL.52891	ABC	#1/0 ACSR	7.30Y	121.7	0.06	3.31	39.24	17	830	223	97	0.36	0.0	2.327	0.087	0	0	0	94
PL.42162	PL.52893	ABC	#1/0 ACSR	7.29Y	121.6	0.13	3.43	39.15	17	828	222	97	0.73	0.1	2.506	0.179	0	0	0	93
PL.42164	PL.42162	A	6 A (CWC)	7.29Y	121.6	0.00	3.44	2.79	2	20	5	97	0.00	0.0	2.512	0.006	0	0	0	2
PD.6659	PL.42164	A	25T	7.29Y	121.6	0.00	3.44	2.79	0	20	5	97	0.00	0.0	2.512	0.006	0	0	0	2
PL.42165	PD.6659	A	6 A (CWC)	7.29Y	121.6	0.01	3.44	2.79	2	20	5	97	0.00	0.0	2.594	0.083	9	2	1	2
PL.42543	PL.42165	A	6 A (CWC)	7.29Y	121.6	0.00	3.45	1.55	1	11	3	96	0.00	0.0	2.637	0.042	0	0	0	1
PL.42544	PL.42543	A	6 A (CWC)	7.29Y	121.6	0.00	3.45	0.00	0	0	0	100	0.00	0.0	2.727	0.091	0	0	0	0
PL.55446	PL.42543	A	6 A (CWC)	7.29Y	121.6	0.00	3.45	1.55	1	11	3	96	0.00	0.0	2.686	0.050	11	3	1	1
PL.55450	PL.42162	ABC	#1/0 ACSR	7.29Y	121.5	0.11	3.55	38.22	17	808	216	97	0.64	0.1	2.672	0.166	11	3	2	91
PL.55451	PL.55450	ABC	#1/0 ACSR	7.29Y	121.4	0.02	3.57	37.71	16	797	213	97	0.14	0.0	2.709	0.037	34	9	3	89
PL.55452	PL.55451	ABC	#1/0 ACSR	7.28Y	121.4	0.04	3.61	36.09	16	762	204	97	0.21	0.0	2.769	0.060	1	0	1	86
PL.52896	PL.55452	ABC	#1/0 ACSR	7.28Y	121.4	0.02	3.64	35.40	15	747	200	97	0.13	0.0	2.808	0.039	0	0	0	81
PL.52897	PL.52896	A	6 A (CWC)	7.28Y	121.4	0.00	3.64	14.46	10	102	27	97	0.00	0.0	2.814	0.006	0	0	0	12
PD.6642	PL.52897	A	60QA	7.28Y	121.4	0.00	3.64	14.46	24	102	27	97	0.00	0.0	2.814	0.006	0	0	0	12
PL.55453	PD.6642	A	6 A (CWC)	7.28Y	121.3	0.03	3.67	14.46	10	102	27	97	0.02	0.0	2.864	0.050	26	7	2	12
PL.55454	PL.55453	A	6 A (CWC)	7.28Y	121.3	0.04	3.71	10.77	8	76	20	97	0.02	0.0	2.944	0.080	0	0	0	10
PL.55706	PL.55454	A	6 A (CWC)	7.28Y	121.3	0.02	3.73	10.77	8	76	20	97	0.01	0.0	2.996	0.052	24	6	3	10
PL.55707	PL.55706	A	6 A (CWC)	7.28Y	121.3	0.01	3.74	7.35	5	52	14	97	0.00	0.0	3.056	0.060	40	10	4	7
PL.55708	PL.55707	A	6 A (CWC)	7.28Y	121.3	0.00	3.74	1.72	1	12	3	97	0.00	0.0	3.114	0.058	12	3	3	3
PL.55955	PL.52896	ABC	#1/0 ACSR	7.28Y	121.3	0.07	3.71	30.57	13	645	172	97	0.32	0.0	2.940	0.132	16	4	1	69
PL.55954	PL.55955	C	#1/0 ACSR	7.28Y	121.3	0.00	3.71	0.00	0	0	0	100	0.00	0.0	3.026	0.086	0	0	0	0
PL.55956	PL.55955	ABC	#1/0 ACSR	7.27Y	121.2	0.06	3.77	29.82	13	629	168	97	0.28	0.0	3.059	0.119	15	4	1	68
PL.55953	PL.55956	ABC	#2 ACSR	7.27Y	121.2	0.00	3.77	0.72	0	15	4	97	0.00	0.0	3.150	0.091	8	2	2	3
PL.55704	PL.55953	ABC	#2 ACSR	7.27Y	121.2	0.00	3.77	0.34	0	7	2	96	0.00	0.0	3.238	0.088	7	2	1	1
PL.55705	PL.55704	ABC	#2 ACSR	7.27Y	121.2	0.00	3.77	0.00	0	0	0	100	0.00	0.0	3.291	0.053	0	0	0	0
PD.6816-A	PL.55705	ABC	Open	7.27Y	121.2	0.00	3.77	0.00	0	0	0	100	0.00	0.0	3.291	0.053	0	0	0	0
PL.58448	PL.55956	B	6 A (CWC)	7.26Y	121.0	0.27	4.04	85.12	61	598	160	97	1.21	0.2	3.129	0.070	14	4	1	64
PL.58450	PL.58448	B	6 A (CWC)	7.26Y	121.0	0.00	4.04	28.17	20	198	52	97	0.00	0.0	3.131	0.002	0	0	0	18
PD.8594	PL.58450	B	20T	7.26Y	121.0	0.00	4.04	28.17	0	198	52	97	0.00	0.0	3.131	0.002	0	0	0	18

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.58451	PD.8594	B	6 A (CWC)	7.25Y	120.9	0.08	4.12	28.17	20	198	52	97	0.11	0.1	3.198	0.067	36	10	2	18
PL.55952	PL.58451	B	6 A (CWC)	7.25Y	120.9	0.02	4.14	22.30	16	156	41	97	0.02	0.0	3.215	0.017	7	2	2	15
PL.55455	PL.55952	B	6 A (CWC)	7.25Y	120.8	0.02	4.16	21.23	15	149	39	97	0.02	0.0	3.234	0.018	0	0	0	13
PL.55456	PL.55455	B	6 A (CWC)	7.25Y	120.8	0.01	4.17	17.91	13	126	33	97	0.01	0.0	3.252	0.018	11	3	1	11
PL.55959	PL.55456	B	6 A (CWC)	7.25Y	120.8	0.04	4.21	16.36	12	115	30	97	0.03	0.0	3.316	0.064	30	8	3	10
PL.55843	PL.55959	B	6 A (CWC)	7.25Y	120.8	0.01	4.22	6.08	4	43	11	97	0.00	0.0	3.375	0.059	20	5	2	4
PL.42167	PL.55843	B	6 A (CWC)	7.25Y	120.8	0.01	4.23	3.23	2	23	6	97	0.00	0.0	3.455	0.081	23	6	2	2
PL.55842	PL.55959	B	#4 ACSR	7.25Y	120.8	0.01	4.22	5.94	5	42	11	97	0.00	0.0	3.387	0.071	28	7	2	3
PL.42166	PL.55842	B	#4 ACSR	7.25Y	120.8	0.00	4.22	1.89	1	13	3	97	0.00	0.0	3.424	0.037	13	3	1	1
PL.61146	PL.55455	B	#1/0 ACSR	7.25Y	120.8	0.00	4.16	3.32	1	23	6	97	0.00	0.0	3.268	0.034	23	6	2	2
PL.55951	PL.58451	B	6 A (CWC)	7.25Y	120.9	0.00	4.12	0.72	1	5	1	98	0.00	0.0	3.254	0.055	5	1	1	1
PL.58449	PL.58448	B	6 A (CWC)	7.25Y	120.9	0.09	4.13	55.00	39	386	103	97	0.26	0.1	3.165	0.035	0	0	0	45
PL.41815	PL.58449	B	6 A (CWC)	7.25Y	120.9	0.00	4.13	0.00	0	0	0	100	0.00	0.0	3.200	0.036	0	0	0	0
PL.55958	PL.58449	B	6 A (CWC)	7.25Y	120.8	0.12	4.25	54.15	39	379	101	97	0.35	0.1	3.214	0.050	8	2	1	44
PL.55957	PL.55958	B	6 A (CWC)	7.24Y	120.7	0.01	4.26	52.96	38	371	99	97	0.04	0.0	3.220	0.006	0	0	0	43
PD.6794	PL.55957	B	100L	7.24Y	120.7	0.00	4.26	52.96	53	371	99	97	0.00	0.0	3.220	0.006	0	0	0	43
PL.41564	PD.6794	B	6 A (CWC)	7.23Y	120.5	0.21	4.47	52.96	38	371	99	97	0.59	0.2	3.307	0.087	3	1	1	43
PL.62044	PL.41564	B	6 A (CWC)	7.23Y	120.5	0.06	4.53	52.49	37	367	98	97	0.17	0.0	3.333	0.026	20	5	2	42
PL.62042	PL.62044	B	6 A (CWC)	7.23Y	120.5	0.00	4.54	1.25	1	9	2	98	0.00	0.0	3.410	0.077	9	2	1	1
PL.62043	PL.62044	B	6 A (CWC)	7.22Y	120.3	0.15	4.68	48.41	35	338	90	97	0.38	0.1	3.400	0.067	0	0	0	39
PL.55713	PL.62043	B	6 A (CWC)	7.22Y	120.3	0.00	4.68	0.96	1	7	2	96	0.00	0.0	3.442	0.042	7	2	1	1
PL.55714	PL.62043	B	6 A (CWC)	7.22Y	120.3	0.00	4.68	1.91	1	13	4	96	0.00	0.0	3.419	0.018	13	4	1	1
PL.55715	PL.55714	B	6 A (CWC)	7.22Y	120.3	0.00	4.68	0.00	0	0	0	100	0.00	0.0	3.448	0.030	0	0	0	0
PL.55716	PL.55715	B	6 A (CWC)	7.22Y	120.3	0.00	4.68	0.00	0	0	0	100	0.00	0.0	3.463	0.014	0	0	0	0
PL.55719	PL.62043	B	6 A (CWC)	7.21Y	120.2	0.10	4.78	45.54	33	318	84	97	0.24	0.1	3.451	0.051	26	7	2	37
PL.55718	PL.55719	B	6 A (CWC)	7.20Y	120.0	0.19	4.97	39.36	28	274	73	97	0.39	0.1	3.558	0.107	10	3	1	33
PL.41833	PL.55718	B	6 A (CWC)	7.20Y	120.0	0.00	4.97	2.44	2	17	4	97	0.00	0.0	3.587	0.029	17	4	2	2
PL.42089	PL.55718	B	6 A (CWC)	7.19Y	119.9	0.15	5.12	35.50	25	247	66	97	0.28	0.1	3.650	0.091	0	0	0	30
PL.52946	PL.42089	B	6 A (CWC)	7.19Y	119.8	0.06	5.18	35.50	25	247	65	97	0.11	0.0	3.687	0.037	20	5	3	30
PL.52949	PL.52946	B	6 A (CWC)	7.19Y	119.8	0.07	5.24	30.70	22	213	57	97	0.11	0.1	3.735	0.048	7	2	1	25
PL.52948	PL.52949	B	6 A (CWC)	7.18Y	119.6	0.13	5.37	27.00	19	188	50	97	0.18	0.1	3.839	0.104	0	0	0	23

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.55459	PL.52948	B	6 A (CWC)	7.17Y	119.5	0.09	5.47	23.83	17	165	44	97	0.11	0.1	3.928	0.089	13	4	3	22
PL.55458	PL.55459	B	6 A (CWC)	7.17Y	119.5	0.03	5.49	7.11	5	49	13	97	0.01	0.0	4.012	0.084	0	0	0	4
PL.42097	PL.55458	B	6 A (CWC)	7.17Y	119.5	0.04	5.53	5.09	4	35	9	97	0.01	0.0	4.193	0.181	7	2	1	3
PL.41591	PL.42097	B	6 A (CWC)	7.17Y	119.5	0.00	5.53	0.00	0	0	0	100	0.00	0.0	4.308	0.115	0	0	0	0
PL.42098	PL.42097	B	6 A (CWC)	7.17Y	119.5	0.02	5.55	4.12	3	29	8	96	0.00	0.0	4.294	0.101	0	0	0	2
PL.41816	PL.42098	B	6 A (CWC)	7.17Y	119.4	0.01	5.56	3.38	2	23	6	97	0.00	0.0	4.388	0.093	23	6	1	1
PL.41463	PL.42098	B	6 A (CWC)	7.17Y	119.4	0.00	5.55	0.75	1	5	1	98	0.00	0.0	4.417	0.123	5	1	1	1
PL.41563	PL.55458	B	6 A (CWC)	7.17Y	119.5	0.00	5.50	2.02	1	14	4	96	0.00	0.0	4.060	0.047	0	0	0	1
PL.55460	PL.41563	B	6 A (CWC)	7.17Y	119.5	0.00	5.50	2.02	1	14	4	96	0.00	0.0	4.086	0.026	14	4	1	1
PL.55457	PL.55459	B	6 A (CWC)	7.17Y	119.5	0.03	5.49	14.80	11	103	27	97	0.02	0.0	3.970	0.041	0	0	0	15
PL.62220	PL.55457	B	6 A (CWC)	7.17Y	119.5	0.04	5.53	14.80	11	103	27	97	0.03	0.0	4.027	0.057	16	4	4	15
PL.62222	PL.62220	B	6 A (CWC)	7.17Y	119.5	0.02	5.54	7.58	5	53	14	97	0.01	0.0	4.079	0.052	16	4	2	7
PL.62223	PL.62222	B	6 A (CWC)	7.17Y	119.4	0.01	5.56	5.23	4	36	10	96	0.00	0.0	4.127	0.048	0	0	1	5
PL.62218	PL.62223	B	6 A (CWC)	7.17Y	119.4	0.00	5.56	1.25	1	9	2	98	0.00	0.0	4.198	0.071	9	2	1	1
PL.62219	PL.62223	B	6 A (CWC)	7.17Y	119.4	0.01	5.56	3.97	3	27	7	97	0.00	0.0	4.161	0.034	0	0	0	3
PL.42728	PL.62219	B	6 A (CWC)	7.17Y	119.4	0.02	5.58	3.97	3	27	7	97	0.00	0.0	4.257	0.097	7	2	1	3
PL.42727	PL.42728	B	6 A (CWC)	7.17Y	119.4	0.00	5.58	2.94	2	20	5	97	0.00	0.0	4.294	0.037	0	0	0	2
PL.41885	PL.42727	B	6 A (CWC)	7.16Y	119.4	0.00	5.59	2.94	2	20	5	97	0.00	0.0	4.351	0.057	20	5	2	2
PL.41565	PL.42727	B	6 A (CWC)	7.17Y	119.4	0.00	5.58	0.00	0	0	0	100	0.00	0.0	4.403	0.109	0	0	0	0
PL.41039	PL.62219	B	#1/0 ACSR	7.17Y	119.4	0.00	5.56	0.00	0	0	0	100	0.00	0.0	4.178	0.018	0	0	0	0
PL.62221	PL.62220	B	6 A (CWC)	7.17Y	119.5	0.01	5.53	4.85	3	34	9	97	0.00	0.0	4.063	0.035	16	4	2	4
PL.55894	PL.62221	B	6 A (CWC)	7.17Y	119.5	0.00	5.54	2.51	2	17	5	96	0.00	0.0	4.081	0.019	17	5	2	2
PL.55766	PL.55457	B	6 A (CWC)	7.17Y	119.5	0.00	5.49	0.00	0	0	0	100	0.00	0.0	4.023	0.053	0	0	0	0
PL.52904	PL.52948	B	#2 ACSR	7.18Y	119.6	0.00	5.37	3.17	2	22	6	96	0.00	0.0	3.875	0.035	22	6	1	1
PL.52947	PL.52949	B	6 A (CWC)	7.19Y	119.8	0.01	5.25	2.74	2	19	5	97	0.00	0.0	3.819	0.084	19	5	1	1
PL.52945	PL.52946	B	6 A (CWC)	7.19Y	119.8	0.00	5.18	1.86	1	13	3	97	0.00	0.0	3.751	0.064	13	3	2	2
PL.55717	PL.55719	B	6 A (CWC)	7.21Y	120.2	0.01	4.79	2.44	2	17	4	97	0.00	0.0	3.556	0.106	17	4	2	2
PL.41562	PL.58449	B	6 A (CWC)	7.25Y	120.9	0.00	4.13	0.85	1	6	2	95	0.00	0.0	3.211	0.047	6	2	1	1
PL.42545	PL.55452	C	#4 ACSR	7.28Y	121.4	0.00	3.61	1.91	1	13	4	96	0.00	0.0	2.818	0.049	13	3	2	4
PL.42546	PL.42545	C	#4 ACSR	7.28Y	121.4	0.00	3.61	0.10	0	1	0	100	0.00	0.0	2.887	0.069	0	0	1	2
PL.42547	PL.42546	C	#4 ACSR	7.28Y	121.4	0.00	3.61	0.10	0	1	0	100	0.00	0.0	3.018	0.131	1	0	1	1

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42163	PL.52893	C	#4 ACSR	7.30Y	121.7	0.00	3.31	0.25	0	2	0	100	0.00	0.0	2.333	0.006	0	0	0	1
PD.6531	PL.42163	C	60QA	7.30Y	121.7	0.00	3.31	0.25	0	2	0	100	0.00	0.0	2.333	0.006	0	0	0	1
PL.55444	PD.6531	C	#4 ACSR	7.30Y	121.7	0.00	3.31	0.25	0	2	0	100	0.00	0.0	2.378	0.045	2	0	1	1
PL.52894	PL.52891	A	6 A (CWC)	7.29Y	121.6	0.17	3.42	82.10	59	579	155	97	0.75	0.1	2.287	0.046	13	3	1	61
PL.52895	PL.52894	A	6 A (CWC)	7.28Y	121.4	0.20	3.62	80.25	57	565	151	97	0.87	0.2	2.343	0.056	10	3	2	60
PL.61132	PL.52895	A	#1/0 ACSR	7.28Y	121.4	0.00	3.62	1.20	1	8	2	97	0.00	0.0	2.366	0.023	8	2	1	1
PL.52892	PL.52895	A	6 A (CWC)	7.27Y	121.2	0.13	3.75	77.59	55	546	146	97	0.53	0.1	2.379	0.036	0	0	0	57
PL.42447	PL.52892	A	6 A (CWC)	7.27Y	121.2	0.02	3.77	77.59	55	545	146	97	0.08	0.0	2.385	0.006	0	0	0	57
PD.6793	PL.42447	A	140L	7.27Y	121.2	0.00	3.77	77.59	55	545	146	97	0.00	0.0	2.385	0.006	0	0	0	57
PL.55447	PD.6793	A	6 A (CWC)	7.26Y	121.1	0.16	3.93	77.59	55	545	146	97	0.65	0.1	2.430	0.045	11	3	1	57
PL.55449	PL.55447	A	6 A (CWC)	7.25Y	120.9	0.20	4.13	68.00	49	477	127	97	0.71	0.1	2.493	0.064	6	2	1	51
PL.41381	PL.55449	A	6 A (CWC)	7.25Y	120.9	0.00	4.13	1.11	1	8	2	97	0.00	0.0	2.688	0.195	8	2	1	1
PL.42448	PL.55449	A	6 A (CWC)	7.23Y	120.5	0.35	4.48	63.87	46	448	119	97	1.18	0.3	2.618	0.125	25	7	2	47
PL.41852	PL.42448	A	6 A (CWC)	7.23Y	120.5	0.00	4.48	2.61	2	18	5	96	0.00	0.0	2.653	0.034	18	5	1	1
PL.42449	PL.42448	A	6 A (CWC)	7.21Y	120.2	0.30	4.77	57.63	41	403	107	97	0.90	0.2	2.732	0.114	10	3	1	44
PL.55462	PL.42449	A	6 A (CWC)	7.21Y	120.1	0.08	4.85	54.27	39	378	100	97	0.22	0.1	2.764	0.032	12	3	1	42
PL.55463	PL.55462	A	6 A (CWC)	7.20Y	120.1	0.07	4.92	52.58	38	366	97	97	0.19	0.1	2.793	0.028	3	1	1	41
PL.57709	PL.55463	A	6 A (CWC)	7.20Y	120.0	0.12	5.04	52.15	37	363	96	97	0.31	0.1	2.843	0.050	29	8	2	40
PL.57712	PL.57709	A	6 A (CWC)	7.19Y	119.9	0.06	5.09	21.02	15	146	39	97	0.06	0.0	2.904	0.061	18	5	1	11
PL.57708	PL.57712	A	6 A (CWC)	7.19Y	119.9	0.06	5.15	18.49	13	129	34	97	0.05	0.0	2.981	0.076	30	8	3	10
PL.57707	PL.57708	A	6 A (CWC)	7.19Y	119.8	0.06	5.21	14.18	10	99	26	97	0.05	0.0	3.081	0.100	0	0	0	7
PL.42451	PL.57707	A	6 A (CWC)	7.19Y	119.8	0.01	5.22	8.34	6	58	15	97	0.00	0.0	3.118	0.037	31	8	2	4
PL.55461	PL.42451	A	6 A (CWC)	7.19Y	119.8	0.00	5.22	0.00	0	0	0	100	0.00	0.0	3.165	0.047	0	0	0	0
PL.59315	PL.42451	A	6 A (CWC)	7.19Y	119.8	0.01	5.23	3.84	3	27	7	97	0.00	0.0	3.154	0.036	5	1	1	2
PL.59316	PL.59315	A	6 A (CWC)	7.19Y	119.8	0.00	5.23	3.08	2	21	6	96	0.00	0.0	3.215	0.062	21	6	1	1
PL.59332	PL.57707	A	6 A (CWC)	7.19Y	119.8	0.02	5.23	5.84	4	41	11	97	0.01	0.0	3.158	0.077	7	2	1	3
PL.59333	PL.59332	A	6 A (CWC)	7.19Y	119.8	0.02	5.25	4.89	3	34	9	97	0.00	0.0	3.237	0.079	0	0	0	2
PL.55637	PL.59333	A	1/0 AL URD	7.18Y	119.7	0.00	5.25	2.17	1	15	4	97	0.00	0.0	3.278	0.041	15	4	1	1
PL.55636	PL.59333	A	6 A (CWC)	7.18Y	119.7	0.01	5.26	2.72	2	19	5	97	0.00	0.0	3.309	0.072	0	0	0	1
PL.55635	PL.55636	A	6 A (CWC)	7.18Y	119.7	0.00	5.26	2.72	2	19	5	97	0.00	0.0	3.388	0.079	19	5	1	1
PL.57706	PL.57708	A	#4 ACSR	7.19Y	119.9	0.00	5.15	0.00	0	0	0	100	0.00	0.0	3.032	0.052	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.57711	PL.57709	A	6 A (CWC)	7.19Y	119.9	0.05	5.09	24.37	17	170	45	97	0.07	0.0	2.890	0.047	0	0	0	24
PL.55762	PL.57711	A	6 A (CWC)	7.19Y	119.9	0.02	5.11	22.78	16	158	42	97	0.03	0.0	2.913	0.024	12	3	1	23
PL.55761	PL.55762	A	6 A (CWC)	7.19Y	119.8	0.06	5.18	19.60	14	136	36	97	0.07	0.0	2.985	0.072	0	0	0	21
PL.55764	PL.55761	A	6 A (CWC)	7.19Y	119.8	0.02	5.19	17.58	13	122	32	97	0.02	0.0	3.007	0.022	0	0	0	20
PL.55692	PL.55764	A	6 A (CWC)	7.19Y	119.8	0.05	5.25	16.73	12	116	31	97	0.05	0.0	3.086	0.079	23	6	4	17
PL.64548	PL.55692	A	6 A (CWC)	7.18Y	119.7	0.03	5.28	13.44	10	93	25	97	0.02	0.0	3.141	0.055	6	2	1	13
PL.64549	PL.64548	A	6 A (CWC)	7.18Y	119.7	0.02	5.30	12.60	9	88	23	97	0.01	0.0	3.184	0.042	42	11	6	12
PL.55927	PL.64549	A	6 A (CWC)	7.18Y	119.7	0.02	5.32	6.09	4	42	11	97	0.01	0.0	3.247	0.063	0	0	0	4
PL.55804	PL.55927	A	6 A (CWC)	7.18Y	119.7	0.00	5.32	6.09	4	42	11	97	0.00	0.0	3.262	0.016	13	3	1	4
PL.55805	PL.55804	A	6 A (CWC)	7.18Y	119.7	0.00	5.32	2.68	2	19	5	97	0.00	0.0	3.287	0.025	1	0	1	2
PL.55464	PL.55805	A	6 A (CWC)	7.18Y	119.7	0.00	5.32	2.55	2	18	5	96	0.00	0.0	3.324	0.037	18	5	1	1
PL.55465	PL.55464	A	6 A (CWC)	7.18Y	119.7	0.00	5.32	0.00	0	0	0	100	0.00	0.0	3.366	0.042	0	0	0	0
PL.55803	PL.55804	A	6 A (CWC)	7.18Y	119.7	0.00	5.32	1.61	1	11	3	96	0.00	0.0	3.313	0.050	11	3	1	1
PL.61141	PL.55804	A	#1/0 ACSR	7.18Y	119.7	0.00	5.32	0.00	0	0	0	100	0.00	0.0	3.307	0.045	0	0	0	0
PL.55926	PL.64549	A	6 A (CWC)	7.18Y	119.7	0.00	5.30	0.46	0	3	1	95	0.00	0.0	3.213	0.029	3	1	2	2
PL.55765	PL.55764	A	6 A (CWC)	7.19Y	119.8	0.01	5.20	0.85	1	6	2	95	0.00	0.0	3.144	0.137	0	0	0	3
PL.42705	PL.55765	A	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.85	1	6	2	95	0.00	0.0	3.196	0.051	0	0	0	3
PL.42706	PL.42705	A	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.00	0	0	0	100	0.00	0.0	3.348	0.152	0	0	0	0
PL.41417	PL.42706	A	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.00	0	0	0	100	0.00	0.0	3.494	0.146	0	0	0	0
PL.55494	PL.42706	A	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.00	0	0	0	100	0.00	0.0	3.454	0.106	0	0	0	0
PL.59133	PL.42705	A	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.85	1	6	2	95	0.00	0.0	3.243	0.047	1	0	1	3
PL.59134	PL.59133	A	6 A (CWC)	7.19Y	119.8	0.00	5.20	0.77	1	5	1	98	0.00	0.0	3.298	0.055	5	1	2	2
PL.42703	PL.55761	A	6 A (CWC)	7.19Y	119.8	0.01	5.18	2.02	1	14	4	96	0.00	0.0	3.045	0.060	0	0	0	1
PL.42704	PL.42703	A	6 A (CWC)	7.19Y	119.8	0.00	5.18	2.02	1	14	4	96	0.00	0.0	3.080	0.035	14	4	1	1
PL.55763	PL.55762	A	#1/0 ACSR	7.19Y	119.9	0.00	5.11	1.48	1	10	3	96	0.00	0.0	2.928	0.015	10	3	1	1
PL.55760	PL.57711	A	#1/0 ACSR	7.19Y	119.9	0.00	5.09	1.60	1	11	3	96	0.00	0.0	2.908	0.018	11	3	1	1
PL.57710	PL.57709	A	6 A (CWC)	7.20Y	120.0	0.01	5.04	2.66	2	19	5	97	0.00	0.0	2.908	0.065	10	3	1	3
PL.42450	PL.57710	A	6 A (CWC)	7.20Y	120.0	0.00	5.04	1.29	1	9	2	98	0.00	0.0	2.974	0.066	9	2	2	2
PL.41401	PL.42449	A	6 A (CWC)	7.21Y	120.2	0.00	4.78	1.89	1	13	3	97	0.00	0.0	2.802	0.069	13	3	1	1
PL.55445	PL.55449	A	6 A (CWC)	7.25Y	120.9	0.00	4.13	2.17	2	15	4	97	0.00	0.0	2.560	0.067	15	4	2	2
PL.55448	PL.55447	A	6 A (CWC)	7.26Y	121.0	0.04	3.97	7.96	6	56	15	97	0.02	0.0	2.561	0.131	12	3	1	5

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.52901	PL.55448	A	6 A (CWC)	7.26Y	121.0	0.02	3.99	6.22	4	44	12	96	0.00	0.0	2.622	0.062	9	2	1	4
PL.52902	PL.52901	A	6 A (CWC)	7.26Y	121.0	0.00	3.99	4.97	4	35	9	97	0.00	0.0	2.649	0.027	13	3	1	3
PL.52903	PL.52902	A	6 A (CWC)	7.26Y	121.0	0.00	4.00	1.72	1	12	3	97	0.00	0.0	2.770	0.120	12	3	1	1
PL.59135	PL.52902	A	#1/0 ACSR	7.26Y	121.0	0.00	3.99	1.44	1	10	3	96	0.00	0.0	2.697	0.048	10	3	1	1
PL.42444	PL.42446	C	#4 ACSR	7.33Y	122.2	0.00	2.85	2.70	2	19	5	97	0.00	0.0	1.918	0.006	0	0	0	1
PD.6771	PL.42444	C	60QA	7.33Y	122.2	0.00	2.85	2.70	5	19	5	97	0.00	0.0	1.918	0.006	0	0	0	1
PL.63481	PD.6771	C	#1/0 ACSR	7.33Y	122.2	0.00	2.85	2.70	1	19	5	97	0.00	0.0	1.928	0.010	0	0	0	1
PL.63483	PL.63481	C	#1/0 ACSR	7.33Y	122.2	0.00	2.85	0.00	0	0	0	100	0.00	0.0	1.979	0.051	0	0	0	0
PL.63482	PL.63481	C	#1/0 ACSR	7.33Y	122.2	0.00	2.85	2.70	1	19	5	97	0.00	0.0	1.950	0.022	19	5	1	1
PL.41596	PL.41855	A	6 A (CWC)	7.35Y	122.5	0.00	2.54	0.57	0	4	1	97	0.00	0.0	1.730	0.059	4	1	3	3
PL.56066	PL.41855	C	6 A (CWC)	7.35Y	122.4	0.01	2.55	24.79	18	176	47	97	0.01	0.0	1.679	0.008	0	0	0	23
PD.8294	PL.56066	C	75QA	7.35Y	122.4	0.00	2.55	24.79	33	176	47	97	0.00	0.0	1.679	0.008	0	0	0	23
PL.56067	PD.8294	C	6 A (CWC)	7.34Y	122.4	0.09	2.64	24.79	18	176	47	97	0.12	0.1	1.758	0.079	0	0	0	23
PL.53047	PL.56067	C	#2 ACSR	7.34Y	122.4	0.00	2.64	0.10	0	1	0	100	0.00	0.0	1.857	0.099	1	0	1	1
PL.41335	PL.56067	C	#2 ACSR	7.34Y	122.4	0.00	2.64	1.84	1	13	3	97	0.00	0.0	1.841	0.084	13	3	1	1
PL.41592	PL.56067	C	6 A (CWC)	7.33Y	122.2	0.12	2.77	22.85	16	162	43	97	0.15	0.1	1.880	0.123	11	3	1	21
PL.41386	PL.41592	C	6 A (CWC)	7.33Y	122.2	0.00	2.77	2.51	2	18	5	96	0.00	0.0	1.927	0.046	18	5	3	3
PL.41727	PL.41592	C	6 A (CWC)	7.33Y	122.2	0.04	2.81	18.75	13	133	35	97	0.04	0.0	1.931	0.051	0	0	0	17
PL.41644	PL.41727	C	6 A (CWC)	7.33Y	122.1	0.11	2.92	16.70	12	118	31	97	0.10	0.1	2.072	0.140	0	0	0	15
PL.41812	PL.41644	C	6 A (CWC)	7.32Y	121.9	0.14	3.05	16.70	12	118	31	97	0.12	0.1	2.254	0.182	0	0	0	15
PL.41646	PL.41812	C	6 A (CWC)	7.32Y	121.9	0.00	3.06	1.35	1	10	3	96	0.00	0.0	2.300	0.045	7	2	1	3
PL.41811	PL.41646	C	6 A (CWC)	7.32Y	121.9	0.00	3.06	0.42	0	3	1	95	0.00	0.0	2.353	0.053	1	0	1	2
PL.41645	PL.41811	C	6 A (CWC)	7.32Y	121.9	0.00	3.06	0.33	0	2	1	89	0.00	0.0	2.388	0.035	2	1	1	1
PL.55907	PL.41812	C	#1/0 ACSR	7.32Y	121.9	0.00	3.06	1.47	1	10	3	96	0.00	0.0	2.292	0.038	10	3	1	1
PL.41690	PL.41812	C	6 A (CWC)	7.31Y	121.9	0.05	3.11	13.89	10	98	26	97	0.04	0.0	2.342	0.088	15	4	2	11
PL.53042	PL.41690	C	6 A (CWC)	7.31Y	121.9	0.03	3.13	11.80	8	83	22	97	0.02	0.0	2.395	0.053	9	2	1	9
PL.55925	PL.53042	C	#1/0 ACSR	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	2.458	0.063	0	0	0	0
PL.53043	PL.53042	C	6 A (CWC)	7.31Y	121.8	0.02	3.16	10.48	7	74	20	97	0.01	0.0	2.447	0.053	17	4	3	8
PL.41724	PL.53043	C	#1/0 ACSR	7.31Y	121.8	0.00	3.16	1.30	1	9	2	98	0.00	0.0	2.499	0.052	9	2	1	1
PL.53044	PL.53043	C	6 A (CWC)	7.31Y	121.8	0.00	3.16	1.74	1	12	3	97	0.00	0.0	2.497	0.049	12	3	1	1
PL.42030	PL.53043	C	6 A (CWC)	7.31Y	121.8	0.01	3.16	5.04	4	36	9	97	0.00	0.0	2.481	0.034	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41747	PL.42030	C	6 A (CWC)	7.31Y	121.8	0.01	3.17	5.04	4	36	9	97	0.00	0.0	2.522	0.041	0	0	0	3
PL.41748	PL.41747	C	6 A (CWC)	7.31Y	121.8	0.00	3.17	1.62	1	11	3	96	0.00	0.0	2.578	0.055	11	3	1	1
PL.41745	PL.41747	C	6 A (CWC)	7.31Y	121.8	0.01	3.18	3.43	2	24	6	97	0.00	0.0	2.583	0.060	8	2	1	2
PL.41746	PL.41745	C	6 A (CWC)	7.31Y	121.8	0.00	3.18	2.25	2	16	4	97	0.00	0.0	2.609	0.026	16	4	1	1
PL.41728	PL.41727	C	#2 ACSR	7.33Y	122.2	0.00	2.81	2.05	1	15	4	97	0.00	0.0	1.994	0.063	2	1	1	2
PL.41729	PL.41728	C	#2 ACSR	7.33Y	122.2	0.00	2.81	1.74	1	12	3	97	0.00	0.0	2.050	0.056	12	3	1	1
PL.42901	PL.42899	C	#1/0 ACSR	7.36Y	122.6	0.00	2.38	2.10	1	15	4	97	0.00	0.0	1.567	0.006	0	0	0	2
PD.6456	PL.42901	C	30QA	7.36Y	122.6	0.00	2.38	2.10	7	15	4	97	0.00	0.0	1.567	0.006	0	0	0	2
PL.53048	PD.6456	C	#1/0 ACSR	7.36Y	122.6	0.00	2.39	2.10	1	15	4	97	0.00	0.0	1.685	0.118	4	1	1	2
PL.52888	PL.53048	C	#1/0 ACSR	7.36Y	122.6	0.00	2.39	1.49	1	11	3	96	0.00	0.0	1.700	0.015	11	3	1	1
PL.42897	PL.55905	C	6 A (CWC)	7.37Y	122.8	0.00	2.25	2.25	2	16	4	97	0.00	0.0	1.483	0.006	0	0	0	2
PD.6690	PL.42897	C	60QA	7.37Y	122.8	0.00	2.25	2.25	4	16	4	97	0.00	0.0	1.483	0.006	0	0	0	2
PL.42898	PD.6690	C	6 A (CWC)	7.36Y	122.7	0.00	2.25	2.25	2	16	4	97	0.00	0.0	1.557	0.073	16	4	2	2
PL.55904	PL.64790	A	#4 ACSR	7.37Y	122.8	0.00	2.16	1.15	1	8	2	97	0.00	0.0	1.431	0.006	0	0	0	1
PD.6455	PL.55904	A	60QA	7.37Y	122.8	0.00	2.16	1.15	2	8	2	97	0.00	0.0	1.431	0.006	0	0	0	1
PL.42896	PD.6455	A	#4 ACSR	7.37Y	122.8	0.00	2.16	1.15	1	8	2	97	0.00	0.0	1.492	0.061	8	2	1	1
PL.62505	PL.62431	C	#1/0 ACSR	7.40Y	123.3	0.01	1.70	58.92	26	421	113	97	0.04	0.0	1.162	0.011	5	1	1	80
PL.62506	PL.62505	C	#1/0 ACSR	7.39Y	123.2	0.07	1.78	58.29	25	416	112	97	0.20	0.0	1.216	0.054	0	0	0	79
PL.42090	PL.62506	C	#1/0 ACSR	7.39Y	123.2	0.01	1.78	58.29	25	416	112	97	0.02	0.0	1.222	0.006	0	0	0	79
PD.6792	PL.42090	C	100L	7.39Y	123.2	0.00	1.78	58.29	58	416	112	97	0.00	0.0	1.222	0.006	0	0	0	79
PL.55819	PD.6792	C	#1/0 ACSR	7.38Y	123.0	0.17	1.96	58.29	25	416	112	97	0.47	0.1	1.352	0.131	12	3	1	79
PL.64684	PL.55819	C	#1/0 ACSR	7.38Y	123.0	0.00	1.96	56.62	25	404	108	97	0.00	0.0	1.352	0.000	0	0	0	78
PL.64685	PL.64684	C	#1/0 ACSR	7.38Y	123.0	0.05	2.01	56.62	25	404	108	97	0.13	0.0	1.389	0.037	0	0	0	78
PL.64686	PL.64685	C	#1/0 ACSR	7.38Y	123.0	0.04	2.05	56.62	25	404	108	97	0.11	0.0	1.420	0.030	1	0	1	78
PL.55818	PL.64686	C	#1/0 ACSR	7.37Y	122.9	0.08	2.13	56.46	25	402	108	97	0.22	0.1	1.484	0.064	8	2	1	77
PL.55901	PL.55818	C	#1/0 ACSR	7.37Y	122.8	0.05	2.18	55.31	24	394	105	97	0.14	0.0	1.525	0.042	0	0	0	76
PL.55902	PL.55901	C	#1/0 ACSR	7.36Y	122.7	0.07	2.25	53.65	23	382	102	97	0.17	0.0	1.582	0.057	10	3	1	75
PL.55485	PL.55902	C	#1/0 ACSR	7.36Y	122.6	0.11	2.36	52.31	23	372	99	97	0.27	0.1	1.675	0.093	4	1	2	74
PL.55484	PL.55485	C	#1/0 ACSR	7.35Y	122.5	0.11	2.47	51.80	23	368	98	97	0.27	0.1	1.767	0.091	0	0	0	72
PL.51535	PL.55484	C	#1/0 ACSR	7.35Y	122.5	0.06	2.53	36.00	16	256	68	97	0.10	0.0	1.840	0.073	11	3	2	54
PL.51536	PL.51535	C	#1/0 ACSR	7.34Y	122.4	0.06	2.59	34.41	15	244	65	97	0.09	0.0	1.909	0.070	0	0	5	52

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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.51834	PL.51536	C	#4 ACSR	7.34Y	122.4	0.06	2.64	18.24	14	130	34	97	0.05	0.0	1.978	0.069	5	1	1	30
PL.53040	PL.51834	C	#4 ACSR	7.34Y	122.4	0.01	2.65	17.60	14	125	33	97	0.01	0.0	1.988	0.009	0	0	1	29
PL.53041	PL.53040	C	#4 ACSR	7.34Y	122.3	0.02	2.67	17.60	14	125	33	97	0.02	0.0	2.018	0.030	0	0	0	28
PL.55432	PL.53041	C	#4 ACSR	7.34Y	122.3	0.00	2.67	1.71	1	12	3	97	0.00	0.0	2.090	0.073	12	3	4	4
PL.53039	PL.53041	C	#4 ACSR	7.34Y	122.3	0.08	2.75	15.89	12	113	30	97	0.06	0.1	2.125	0.107	0	0	0	24
PL.59352	PL.53039	C	#4 ACSR	7.33Y	122.2	0.02	2.77	15.89	12	113	30	97	0.02	0.0	2.161	0.036	12	3	2	24
PL.59353	PL.59352	C	#4 ACSR	7.33Y	122.2	0.03	2.80	14.21	11	101	27	97	0.02	0.0	2.211	0.050	34	9	6	22
PL.59317	PL.59353	C	#1/0 ACSR	7.33Y	122.2	0.00	2.80	3.20	1	23	6	97	0.00	0.0	2.239	0.028	23	6	7	7
PL.59350	PL.59353	C	#4 ACSR	7.33Y	122.2	0.01	2.81	6.25	5	44	12	96	0.00	0.0	2.262	0.052	14	4	1	9
PL.64306	PL.59350	C	#1/0 ACSR	7.33Y	122.2	0.00	2.81	1.91	1	14	4	96	0.00	0.0	2.301	0.038	2	1	3	5
PL.64307	PL.64306	C	#1/0 ACSR	7.33Y	122.2	0.00	2.81	1.58	1	11	3	96	0.00	0.0	2.325	0.025	0	0	0	2
PL.66151	PL.64307	C	#1/0 ACSR	7.33Y	122.2	0.00	2.81	1.58	1	11	3	96	0.00	0.0	2.348	0.023	11	3	2	2
PL.59351	PL.59350	C	#1/0 ACSR	7.33Y	122.2	0.00	2.81	2.44	1	17	5	96	0.00	0.0	2.284	0.022	17	5	3	3
PL.59131	PL.51536	C	#1/0 ACSR	7.34Y	122.4	0.04	2.63	16.15	7	115	30	97	0.03	0.0	2.018	0.109	0	0	0	17
PL.59132	PL.59131	C	#1/0 ACSR	7.34Y	122.3	0.04	2.67	16.15	7	115	30	97	0.03	0.0	2.138	0.120	0	0	0	17
PL.53045	PL.59132	C	#1/0 ACSR	7.34Y	122.3	0.00	2.67	0.69	0	5	1	98	0.00	0.0	2.169	0.031	0	0	0	1
PL.53046	PL.53045	C	#1/0 ACSR	7.34Y	122.3	0.00	2.67	0.69	0	5	1	98	0.00	0.0	2.210	0.041	0	0	0	1
PL.41794	PL.53046	C	#1/0 ACSR	7.34Y	122.3	0.00	2.67	0.69	0	5	1	98	0.00	0.0	2.265	0.055	5	1	1	1
PL.51835	PL.59132	C	#1/0 ACSR	7.34Y	122.3	0.04	2.71	15.47	7	110	29	97	0.03	0.0	2.242	0.104	0	0	0	16
PL.51836	PL.51835	C	#1/0 ACSR	7.33Y	122.2	0.06	2.76	15.47	7	110	29	97	0.04	0.0	2.407	0.165	6	2	1	16
PL.51837	PL.51836	C	6 A (CWC)	7.33Y	122.2	0.00	2.76	0.00	0	0	0	100	0.00	0.0	2.487	0.080	0	0	0	0
PL.51838	PL.51836	C	#1/0 ACSR	7.33Y	122.2	0.08	2.84	14.58	6	103	27	97	0.05	0.1	2.647	0.240	7	2	1	15
PL.51844	PL.51838	C	6 A (CWC)	7.33Y	122.2	0.01	2.85	2.52	2	18	5	96	0.00	0.0	2.750	0.103	18	5	1	1
PL.55750	PL.51838	C	6 A (CWC)	7.33Y	122.1	0.01	2.86	2.00	1	14	4	96	0.00	0.0	2.792	0.144	0	0	0	4
PL.55751	PL.55750	C	6 A (CWC)	7.33Y	122.1	0.01	2.86	2.00	1	14	4	96	0.00	0.0	2.869	0.078	0	0	1	4
PL.55752	PL.55751	C	6 A (CWC)	7.33Y	122.1	0.01	2.87	0.95	1	7	2	96	0.00	0.0	3.003	0.134	0	0	0	2
PL.55754	PL.55752	C	6 A (CWC)	7.33Y	122.1	0.00	2.87	0.95	1	7	2	96	0.00	0.0	3.079	0.076	7	2	2	2
PL.55753	PL.55752	C	6 A (CWC)	7.33Y	122.1	0.00	2.87	0.00	0	0	0	100	0.00	0.0	3.073	0.070	0	0	0	0
PL.55755	PL.55751	C	#4 ACSR	7.33Y	122.1	0.00	2.86	1.05	1	7	2	96	0.00	0.0	2.948	0.078	7	2	1	1
PL.59260	PL.51838	C	#1/0 ACSR	7.33Y	122.2	0.00	2.84	1.23	1	9	2	98	0.00	0.0	2.651	0.004	0	0	0	1
PD.8757	PL.59260	C	20QA	7.33Y	122.2	0.00	2.84	1.23	6	9	2	98	0.00	0.0	2.651	0.004	0	0	0	1

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.59347	PD.8757	C	#1/0 ACSR	7.33Y	122.2	0.00	2.84	1.23	1	9	2	98	0.00	0.0	2.739	0.088	9	2	1	1
PL.59258	PL.51838	C	#1/0 ACSR	7.33Y	122.1	0.02	2.86	7.80	3	55	15	96	0.01	0.0	2.732	0.085	0	0	0	8
PL.59259	PL.59258	C	#1/0 ACSR	7.33Y	122.1	0.02	2.87	7.80	3	55	15	96	0.01	0.0	2.827	0.096	11	3	1	8
PL.51842	PL.59259	C	6 A (CWC)	7.33Y	122.1	0.00	2.88	6.28	4	45	12	97	0.00	0.0	2.847	0.019	16	4	4	7
PL.51841	PL.51842	C	6 A (CWC)	7.33Y	122.1	0.01	2.89	3.96	3	28	7	97	0.00	0.0	2.919	0.072	9	2	1	3
PL.51839	PL.51841	C	#2 ACSR	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	3.017	0.098	0	0	0	0
PL.51840	PL.51841	C	6 A (CWC)	7.33Y	122.1	0.01	2.90	2.65	2	19	5	97	0.00	0.0	3.049	0.131	11	3	1	2
PL.51843	PL.51840	C	6 A (CWC)	7.33Y	122.1	0.00	2.90	1.06	1	7	2	96	0.00	0.0	3.112	0.063	7	2	1	1
PL.55433	PL.55484	C	#4 ACSR	7.35Y	122.5	0.04	2.51	15.79	12	112	30	97	0.03	0.0	1.823	0.056	20	5	2	17
PL.55434	PL.55433	C	#4 ACSR	7.35Y	122.5	0.01	2.52	13.03	10	93	24	97	0.01	0.0	1.841	0.018	0	0	0	15
PL.55435	PL.55434	C	#4 ACSR	7.35Y	122.5	0.01	2.53	9.78	8	70	18	97	0.01	0.0	1.872	0.031	17	4	1	13
PL.55888	PL.55435	C	#4 ACSR	7.35Y	122.4	0.03	2.56	7.42	6	53	14	97	0.01	0.0	1.974	0.103	16	4	4	12
PL.55841	PL.55888	C	#4 ACSR	7.35Y	122.4	0.00	2.56	1.34	1	9	3	95	0.00	0.0	2.002	0.027	9	3	2	2
PL.55889	PL.55888	C	#4 ACSR	7.35Y	122.4	0.01	2.57	3.81	3	27	7	97	0.00	0.0	2.037	0.063	1	0	1	6
PL.42701	PL.55889	C	#4 ACSR	7.35Y	122.4	0.00	2.57	1.91	1	14	4	96	0.00	0.0	2.070	0.033	14	4	3	3
PL.41550	PL.55889	C	#2 ACSR	7.35Y	122.4	0.00	2.57	1.74	1	12	3	97	0.00	0.0	2.107	0.070	0	0	1	2
PL.66267	PL.41550	C	#1/0 ACSR	7.35Y	122.4	0.00	2.57	1.73	1	12	3	97	0.00	0.0	2.135	0.028	12	3	1	1
PL.55436	PL.55434	C	#1/0 ACSR	7.35Y	122.5	0.00	2.52	3.24	1	23	6	97	0.00	0.0	1.861	0.020	9	2	1	2
PL.55437	PL.55436	C	#1/0 ACSR	7.35Y	122.5	0.00	2.52	1.94	1	14	4	96	0.00	0.0	1.942	0.081	14	4	1	1
PL.41385	PL.55484	C	6 A (CWC)	7.35Y	122.5	0.00	2.47	0.00	0	0	0	100	0.00	0.0	1.847	0.081	0	0	1	1
PL.55903	PL.55901	C	#1/0 ACSR	7.37Y	122.8	0.00	2.18	1.67	1	12	3	97	0.00	0.0	1.593	0.068	12	3	1	1
PL.42838	PL.42837	A	6 A (CWC)	7.41Y	123.5	0.00	1.54	7.10	5	51	13	97	0.00	0.0	1.087	0.006	0	0	0	4
PD.6722	PL.42838	A	60QA	7.41Y	123.5	0.00	1.54	7.10	12	51	13	97	0.00	0.0	1.087	0.006	0	0	0	4
PL.55895	PD.6722	A	6 A (CWC)	7.40Y	123.4	0.06	1.60	7.10	5	51	13	97	0.02	0.0	1.343	0.256	33	9	2	4
PL.55897	PL.55895	A	6 A (CWC)	7.40Y	123.4	0.00	1.60	2.47	2	18	5	96	0.00	0.0	1.378	0.035	0	0	0	2
PL.55898	PL.55897	A	#4 ACSR	7.40Y	123.4	0.00	1.61	1.36	1	10	3	96	0.00	0.0	1.406	0.028	0	0	0	1
PL.55896	PL.55898	A	#4 ACSR	7.40Y	123.4	0.00	1.61	1.36	1	10	3	96	0.00	0.0	1.429	0.023	10	3	1	1
PL.55899	PL.55897	A	#1/0 ACSR	7.40Y	123.4	0.00	1.61	1.11	0	8	2	97	0.00	0.0	1.452	0.074	0	0	0	1
PL.55900	PL.55899	A	#1/0 ACSR	7.40Y	123.4	0.00	1.61	1.11	0	8	2	97	0.00	0.0	1.548	0.095	8	2	1	1
PL.55628	PL.55627	A	6 A (CWC)	7.45Y	124.2	0.00	0.81	3.42	2	25	6	97	0.00	0.0	0.746	0.006	0	0	0	3
PD.6721	PL.55628	A	60QA	7.45Y	124.2	0.00	0.81	3.42	6	25	6	97	0.00	0.0	0.746	0.006	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.55697	PD.6721	A	6 A (CWC)	7.45Y	124.2	0.00	0.81	3.42	2	25	6	97	0.00	0.0	0.778	0.032	9	2	1	3
PL.55698	PL.55697	A	6 A (CWC)	7.45Y	124.2	0.01	0.82	2.12	2	15	4	97	0.00	0.0	0.846	0.068	0	0	0	2
PL.55696	PL.55698	A	6 A (CWC)	7.45Y	124.2	0.01	0.82	2.12	2	15	4	97	0.00	0.0	0.913	0.067	4	1	1	2
PL.63221	PL.55696	A	#1/0 ACSR	7.45Y	124.2	0.00	0.82	1.62	1	12	3	97	0.00	0.0	0.966	0.053	12	3	1	1
PL.55700	PL.55699	C	#4 ACSR	7.46Y	124.4	0.00	0.65	4.18	3	30	8	97	0.00	0.0	0.674	0.006	0	0	0	3
PD.6452	PL.55700	C	30T	7.46Y	124.4	0.00	0.65	4.18	0	30	8	97	0.00	0.0	0.674	0.006	0	0	0	3
PL.41536	PD.6452	C	#4 ACSR	7.46Y	124.3	0.01	0.66	4.18	3	30	8	97	0.00	0.0	0.762	0.088	10	3	1	3
PL.41537	PL.41536	C	#4 ACSR	7.46Y	124.3	0.01	0.67	2.83	2	20	5	97	0.00	0.0	0.879	0.117	9	2	1	2
PL.41304	PL.41537	C	#4 ACSR	7.46Y	124.3	0.00	0.67	0.00	0	0	0	100	0.00	0.0	0.986	0.106	0	0	0	0
PL.55625	PL.41537	C	#4 ACSR	7.46Y	124.3	0.00	0.68	1.52	1	11	3	96	0.00	0.0	0.978	0.099	11	3	1	1
PL.55626	PL.55625	C	#4 ACSR	7.46Y	124.3	0.00	0.68	0.00	0	0	0	100	0.00	0.0	1.023	0.045	0	0	0	0
PL.41532	PL.55735	A	#2 ACSR	7.47Y	124.5	0.00	0.50	6.35	4	46	12	97	0.00	0.0	0.520	0.006	0	0	0	8
PD.6451	PL.41532	A	60QA	7.47Y	124.5	0.00	0.50	6.35	11	46	12	97	0.00	0.0	0.520	0.006	0	0	0	8
PL.55732	PD.6451	A	#2 ACSR	7.47Y	124.5	0.02	0.52	6.35	4	46	12	97	0.01	0.0	0.620	0.101	9	2	1	8
PL.55733	PL.55732	A	#2 ACSR	7.47Y	124.5	0.01	0.53	5.13	3	37	10	97	0.00	0.0	0.670	0.050	10	3	2	7
PL.55892	PL.55733	A	#2 ACSR	7.47Y	124.5	0.00	0.53	3.75	2	27	7	97	0.00	0.0	0.731	0.061	17	4	2	5
PL.55893	PL.55892	A	#2 ACSR	7.47Y	124.5	0.00	0.54	1.45	1	10	3	96	0.00	0.0	0.788	0.057	0	0	2	3
PL.55794	PL.55893	A	#2 ACSR	7.47Y	124.5	0.00	0.54	1.44	1	10	3	96	0.00	0.0	0.843	0.054	0	0	0	1
PL.55795	PL.55794	A	#2 ACSR	7.47Y	124.5	0.00	0.54	1.44	1	10	3	96	0.00	0.0	0.910	0.067	10	3	1	1
PL.41533	PL.55735	C	#4 ACSR	7.47Y	124.5	0.00	0.50	1.52	1	11	3	96	0.00	0.0	0.520	0.006	0	0	0	1
PD.6770	PL.41533	C	60QA	7.47Y	124.5	0.00	0.50	1.52	3	11	3	96	0.00	0.0	0.520	0.006	0	0	0	1
PL.41534	PD.6770	C	#4 ACSR	7.47Y	124.5	0.00	0.51	1.52	1	11	3	96	0.00	0.0	0.590	0.070	11	3	1	1
PL.41872	PL.59410	C	#4 ACSR	7.48Y	124.7	0.00	0.26	4.86	4	35	9	97	0.00	0.0	0.268	0.006	0	0	0	5
PD.6450	PL.41872	C	75QA	7.48Y	124.7	0.00	0.26	4.86	6	35	9	97	0.00	0.0	0.268	0.006	0	0	0	5
PL.41873	PD.6450	C	#4 ACSR	7.48Y	124.7	0.01	0.27	4.86	4	35	9	97	0.00	0.0	0.324	0.056	3	1	1	5
PL.41874	PL.41873	C	#4 ACSR	7.48Y	124.7	0.01	0.28	4.44	3	32	8	97	0.00	0.0	0.365	0.042	1	0	1	4
PL.41529	PL.41874	C	#2 ACSR	7.48Y	124.7	0.00	0.29	2.68	2	19	5	97	0.00	0.0	0.433	0.067	10	3	1	2
PL.41530	PL.41529	C	#2 ACSR	7.48Y	124.7	0.00	0.29	1.37	1	10	3	96	0.00	0.0	0.503	0.071	10	3	1	1
PL.41875	PL.41874	C	#4 ACSR	7.48Y	124.7	0.00	0.28	1.65	1	12	3	97	0.00	0.0	0.417	0.052	12	3	1	1
PL.59423	PL.59425	ABC	#1/0 ACSR	7.50Y	125.0	0.00	0.03	0.00	0	0	0	100	0.00	0.0	0.036	0.007	0	0	0	0
PL.59283	Keavy 2	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	265.24	51	5612	2031	94	0.17	0.0	0.003	0.003	0	0	0	677

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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.59284	PL.59283	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	265.24	51	5611	2031	94	0.10	0.0	0.005	0.002	0	0	0	677
---------- Feeder No. 4 (Bald Rock F4) Beginning with Device PD.8771 ----------																				
PD.8771	PL.59284	ABC	400VWE	7.50Y	125.0	0.00	0.01	265.24	0	5611	2030	94	0.00	0.0	0.005	0.002	0	0	0	677
PL.59282	PD.8771	ABC	336 MCM AC	7.50Y	125.0	0.01	0.02	265.24	51	5611	2030	94	0.23	0.0	0.009	0.004	0	0	0	677
PL.59427	PL.59282	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.009	0.000	0	0	0	0
PD.8769-B	PL.59427	ABC	Open	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.009	0.000	0	0	0	0
PL.59424	PL.59282	ABC	336 MCM AC	7.49Y	124.9	0.10	0.12	265.24	51	5611	2030	94	2.85	0.1	0.057	0.048	0	0	0	677
PL.59421	PL.59424	ABC	336 MCM AC	7.48Y	124.7	0.14	0.26	265.24	51	5608	2023	94	3.78	0.1	0.121	0.064	0	0	0	677
PL.52993	PL.59421	C	#3/0 ACSR	7.48Y	124.7	0.00	0.26	0.67	0	5	1	98	0.00	0.0	0.126	0.006	0	0	0	1
PD.6675	PL.52993	C	75QA	7.48Y	124.7	0.00	0.26	0.67	1	5	1	98	0.00	0.0	0.126	0.006	0	0	0	1
PL.56838	PD.6675	C	#3/0 ACSR	7.48Y	124.7	0.00	0.26	0.67	0	5	1	98	0.00	0.0	0.151	0.024	5	1	1	1
PL.52994	PL.59421	ABC	336 MCM AC	7.47Y	124.5	0.19	0.45	265.01	51	5600	2013	94	5.30	0.1	0.210	0.090	18	5	2	676
PL.42122	PL.52994	ABC	336 MCM AC	7.46Y	124.4	0.17	0.62	263.84	51	5569	1994	94	4.71	0.1	0.291	0.081	15	4	1	673
PL.42123	PL.42122	ABC	336 MCM AC	7.46Y	124.3	0.05	0.67	263.17	51	5549	1979	94	1.37	0.0	0.314	0.024	0	0	0	672
PL.42124	PL.42123	C	6 A (CWC)	7.46Y	124.3	0.00	0.67	5.84	4	42	11	97	0.00	0.0	0.320	0.006	0	0	0	9
PD.6518	PL.42124	C	75QA	7.46Y	124.3	0.00	0.67	5.84	8	42	11	97	0.00	0.0	0.320	0.006	0	0	0	9
PL.42125	PD.6518	C	6 A (CWC)	7.46Y	124.3	0.01	0.68	5.84	4	42	11	97	0.00	0.0	0.349	0.029	9	2	3	9
PL.42126	PL.42125	C	6 A (CWC)	7.46Y	124.3	0.01	0.69	4.60	3	33	9	96	0.00	0.0	0.379	0.030	11	3	3	6
PL.42127	PL.42126	C	6 A (CWC)	7.46Y	124.3	0.00	0.69	3.11	2	22	6	96	0.00	0.0	0.414	0.034	0	0	0	3
PL.42128	PL.42127	C	6 A (CWC)	7.46Y	124.3	0.01	0.70	3.11	2	22	6	96	0.00	0.0	0.461	0.047	8	2	1	3
PL.42129	PL.42128	C	6 A (CWC)	7.46Y	124.3	0.00	0.70	2.01	1	14	4	96	0.00	0.0	0.492	0.031	3	1	1	2
PL.42130	PL.42129	C	6 A (CWC)	7.46Y	124.3	0.00	0.70	1.64	1	12	3	97	0.00	0.0	0.551	0.059	12	3	1	1
PL.42176	PL.42123	ABC	336 MCM AC	7.45Y	124.1	0.24	0.91	261.23	50	5506	1965	94	6.48	0.1	0.427	0.113	10	3	2	663
PL.56486	PL.42176	ABC	336 MCM AC	7.43Y	123.8	0.30	1.21	260.79	50	5490	1947	94	8.11	0.1	0.569	0.142	0	0	0	661
PL.56487	PL.56486	ABC	336 MCM AC	7.42Y	123.7	0.07	1.28	260.79	50	5482	1928	94	1.97	0.0	0.603	0.034	2	1	1	661
PL.56488	PL.56487	ABC	336 MCM AC	7.40Y	123.3	0.38	1.66	260.68	50	5477	1923	94	10.43	0.2	0.786	0.182	1	0	1	660
PL.56748	PL.56488	C	#1/0 ACSR	7.40Y	123.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	0.790	0.004	0	0	0	2
PD.8242	PL.56748	C	20QA	7.40Y	123.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	0.790	0.004	0	0	0	2
PL.59392	PD.8242	C	#1/0 ACSR	7.40Y	123.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	0.837	0.047	0	0	1	2

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.59393	PL.59392	C	#1/0 ACSR	7.40Y	123.3	0.00	1.66	0.00	0	0	0	100	0.00	0.0	0.899	0.063	0	0	1	1
PL.56960	PL.56488	ABC	336 MCM AC	7.40Y	123.3	0.05	1.71	260.63	50	5466	1898	94	1.41	0.0	0.810	0.025	16	4	1	657
PL.56958	PL.56960	ABC	336 MCM AC	7.39Y	123.2	0.09	1.80	259.86	50	5448	1891	94	2.44	0.0	0.853	0.043	9	2	1	656
PL.56959	PL.56958	ABC	336 MCM AC	7.38Y	123.1	0.12	1.92	259.46	50	5437	1883	94	3.26	0.1	0.911	0.058	0	0	0	655
PL.41898	PL.56959	A	6 A (CWC)	7.38Y	123.1	0.00	1.92	3.71	3	26	7	97	0.00	0.0	0.916	0.006	0	0	0	3
PD.6745	PL.41898	A	60QA	7.38Y	123.1	0.00	1.92	3.71	6	26	7	97	0.00	0.0	0.916	0.006	0	0	0	3
PL.56507	PD.6745	A	6 A (CWC)	7.38Y	123.1	0.00	1.93	3.71	3	26	7	97	0.00	0.0	0.951	0.035	12	3	2	3
PL.56508	PL.56507	A	6 A (CWC)	7.38Y	123.1	0.00	1.93	1.98	1	14	4	96	0.00	0.0	0.983	0.032	14	4	1	1
PL.41899	PL.56959	ABC	336 MCM AC	7.38Y	123.1	0.03	1.95	258.23	50	5407	1868	95	0.72	0.0	0.923	0.013	0	0	0	652
PL.62037	PL.41899	ABC	336 MCM AC	7.38Y	123.0	0.03	1.98	258.23	50	5406	1866	95	0.94	0.0	0.940	0.017	0	0	0	652
PL.62038	PL.62037	ABC	336 MCM AC	7.37Y	122.9	0.14	2.12	258.23	50	5405	1864	95	3.83	0.1	1.009	0.068	19	5	2	652
PL.41509	PL.62038	ABC	336 MCM AC	7.36Y	122.7	0.21	2.34	257.33	50	5383	1850	95	5.83	0.1	1.113	0.105	16	4	1	650
PL.41732	PL.41509	ABC	336 MCM AC	7.36Y	122.6	0.01	2.35	52.30	10	1066	443	92	0.07	0.0	1.146	0.033	11	3	1	54
PL.41733	PL.41732	ABC	336 MCM AC	7.36Y	122.6	0.04	2.40	51.80	10	1056	440	92	0.23	0.0	1.246	0.100	0	0	1	53
PL.41769	PL.41733	ABC	336 MCM AC	7.35Y	122.6	0.05	2.44	51.80	10	1055	439	92	0.24	0.0	1.353	0.107	0	0	0	52
PL.41867	PL.41769	A	#4 ACSR	7.35Y	122.5	0.01	2.45	4.74	4	34	9	97	0.00	0.0	1.444	0.091	34	9	1	1
PL.41770	PL.41769	ABC	336 MCM AC	7.35Y	122.5	0.02	2.46	50.24	10	1022	430	92	0.11	0.0	1.403	0.050	0	0	0	51
PL.41771	PL.41770	ABC	336 MCM AC	7.35Y	122.5	0.00	2.47	50.24	10	1021	430	92	0.01	0.0	1.408	0.006	0	0	0	51
PD.6790	PL.41771	ABC	240VWE	7.35Y	122.5	0.00	2.47	50.24	0	1021	429	92	0.00	0.0	1.408	0.006	0	0	0	51
PL.41772	PD.6790	ABC	336 MCM AC	7.35Y	122.5	0.01	2.48	50.24	10	1021	429	92	0.07	0.0	1.442	0.034	0	0	0	51
PL.41850	PL.41772	ABC	#1/0 ACSR	7.35Y	122.4	0.07	2.55	42.55	18	856	385	91	0.42	0.0	1.529	0.087	0	0	0	26
PL.42626	PL.41850	ABC	#1/0 ACSR	7.34Y	122.3	0.12	2.67	38.75	17	773	363	91	0.62	0.1	1.683	0.154	0	0	0	10
PL.42627	PL.42626	ABC	#1/0 ACSR	7.34Y	122.3	0.06	2.73	38.22	17	761	360	90	0.32	0.0	1.766	0.083	5	1	1	9
PL.42628	PL.42627	ABC	#1/0 ACSR	7.33Y	122.2	0.08	2.81	37.70	16	749	356	90	0.41	0.1	1.874	0.108	0	0	0	7
PL.42629	PL.42628	C	#1/0 ACSR	7.33Y	122.2	0.00	2.81	2.78	1	20	5	97	0.00	0.0	1.880	0.006	0	0	0	3
PD.6118	PL.42629	C	40QA	7.33Y	122.2	0.00	2.81	2.78	7	20	5	97	0.00	0.0	1.880	0.006	0	0	0	3
PL.42630	PD.6118	C	#1/0 ACSR	7.33Y	122.2	0.00	2.81	2.78	1	20	5	97	0.00	0.0	1.895	0.015	8	2	1	3
PL.42631	PL.42630	C	#1/0 ACSR	7.33Y	122.2	0.00	2.81	1.59	1	11	3	96	0.00	0.0	1.923	0.029	11	3	2	2
PL.42632	PL.42628	ABC	#1/0 ACSR	7.33Y	122.2	0.03	2.84	36.79	16	729	351	90	0.14	0.0	1.912	0.039	0	0	0	4
PL.41891	PL.42632	A	6 A (CWC)	7.33Y	122.2	0.00	2.84	1.15	1	8	2	97	0.00	0.0	1.963	0.051	8	2	1	1
PL.42633	PL.42632	ABC	#1/0 ACSR	7.33Y	122.1	0.05	2.89	36.42	16	721	349	90	0.27	0.0	1.989	0.077	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42634	PL.42633	ABC	#1/0 ACSR	7.32Y	122.0	0.07	2.96	36.42	16	721	348	90	0.33	0.0	2.082	0.093	0	0	0	3
PL.42635	PL.42634	ABC	#1/0 ACSR	7.32Y	122.0	0.05	3.00	36.42	16	720	348	90	0.24	0.0	2.149	0.067	4	1	1	3
PL.42636	PL.42635	ABC	#1/0 ACSR	7.31Y	121.9	0.12	3.12	36.24	16	716	347	90	0.59	0.1	2.318	0.169	0	0	0	2
PL.42637	PL.42636	ABC	1/0 AL URD	7.31Y	121.9	0.00	3.13	36.24	21	716	346	90	0.03	0.0	2.324	0.006	0	0	0	2
PD.6718	PL.42637	ABC	50QA	7.31Y	121.9	0.00	3.13	36.24	72	716	346	90	0.00	0.0	2.324	0.006	0	0	0	2
PL.42638	PD.6718	ABC	1/0 AL URD	7.28Y	121.4	0.48	3.61	36.24	21	716	346	90	2.99	0.4	2.985	0.661	0	0	0	2
PL.52666	PL.42638	ABC	#2 ACSR	7.28Y	121.4	0.02	3.63	36.24	21	713	345	90	0.13	0.0	3.010	0.025	0	0	0	2
PL.52667	PL.52666	ABC	#2 ACSR	7.28Y	121.4	0.00	3.63	36.24	21	713	345	90	0.01	0.0	3.016	0.007	713	345	2	2
PL.41465	PL.42627	A	#4 ACSR	7.34Y	122.3	0.00	2.73	0.95	1	7	2	96	0.00	0.0	1.902	0.136	7	2	1	1
PL.58556	PL.42626	C	#4 ACSR	7.34Y	122.3	0.00	2.67	1.62	1	11	3	96	0.00	0.0	1.685	0.003	0	0	0	1
PD.8619	PL.58556	C	25T	7.34Y	122.3	0.00	2.67	1.62	0	11	3	96	0.00	0.0	1.685	0.003	0	0	0	1
PL.58557	PD.8619	C	#4 ACSR	7.34Y	122.3	0.00	2.67	1.62	1	11	3	96	0.00	0.0	1.779	0.094	11	3	1	1
PL.66650	PL.41850	A	6 A (CWC)	7.35Y	122.4	0.00	2.55	11.56	8	82	22	97	0.00	0.0	1.532	0.003	0	0	0	16
PD.10407	PL.66650	A	30T	7.35Y	122.4	0.00	2.55	11.56	0	82	22	97	0.00	0.0	1.532	0.003	0	0	0	16
PL.66651	PD.10407	A	6 A (CWC)	7.34Y	122.3	0.17	2.73	11.56	8	82	22	97	0.11	0.1	1.860	0.328	0	0	0	16
PL.56242	PL.66651	A	6 A (CWC)	7.34Y	122.3	0.02	2.74	11.56	8	82	22	97	0.01	0.0	1.892	0.032	0	0	0	16
PL.41783	PL.56242	A	#4 ACSR	7.34Y	122.3	0.00	2.75	5.99	5	43	11	97	0.00	0.0	1.898	0.006	0	0	0	4
PD.6577	PL.41783	A	50T	7.34Y	122.3	0.00	2.75	5.99	0	43	11	97	0.00	0.0	1.898	0.006	0	0	0	4
PL.56239	PD.6577	A	#4 ACSR	7.33Y	122.2	0.01	2.76	5.99	5	43	11	97	0.00	0.0	1.946	0.049	18	5	2	4
PL.56240	PL.56239	A	#4 ACSR	7.33Y	122.2	0.01	2.76	3.39	3	24	6	97	0.00	0.0	1.992	0.045	9	2	1	2
PL.56747	PL.56240	A	1/0 AL URD	7.33Y	122.2	0.00	2.76	2.06	1	15	4	97	0.00	0.0	2.076	0.084	15	4	1	1
PL.56696	PL.56242	A	6 A (CWC)	7.33Y	122.2	0.01	2.76	5.27	4	37	10	97	0.00	0.0	1.956	0.064	9	2	1	10
PL.56697	PL.56696	A	6 A (CWC)	7.33Y	122.2	0.01	2.77	4.02	3	28	8	96	0.00	0.0	2.013	0.057	3	1	1	9
PL.56695	PL.56697	A	6 A (CWC)	7.33Y	122.2	0.00	2.77	3.65	3	26	7	97	0.00	0.0	2.039	0.026	4	1	2	8
PL.56694	PL.56695	A	6 A (CWC)	7.33Y	122.2	0.01	2.78	3.04	2	22	6	96	0.00	0.0	2.084	0.045	0	0	0	6
PL.42625	PL.56694	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.69	0	5	1	98	0.00	0.0	2.130	0.045	3	1	3	4
PL.56397	PL.42625	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.24	0	2	0	100	0.00	0.0	2.218	0.088	2	0	1	1
PL.56398	PL.56397	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	2.261	0.043	0	0	0	0
PL.56399	PL.56398	A	1/0 AL URD	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	2.282	0.020	0	0	0	0
PL.56692	PL.56694	A	#2 ACSR	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	2.130	0.045	0	0	0	0
PL.56693	PL.56694	A	#4 ACSR	7.33Y	122.2	0.01	2.78	2.35	2	17	4	97	0.00	0.0	2.138	0.054	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.56704	PL.56693	A	#2 ACSR	7.33Y	122.2	0.00	2.78	2.35	1	17	4	97	0.00	0.0	2.155	0.017	17	4	2	2
PL.41455	PL.56242	A	#4 ACSR	7.34Y	122.3	0.00	2.74	0.29	0	2	1	89	0.00	0.0	1.936	0.044	2	1	2	2
PL.56051	PL.41772	C	#4 ACSR	7.35Y	122.5	0.00	2.48	0.27	0	2	1	89	0.00	0.0	1.482	0.039	2	1	1	1
PL.58195	PL.41772	B	6 A (CWC)	7.35Y	122.5	0.00	2.48	23.06	16	164	43	97	0.00	0.0	1.445	0.003	0	0	0	24
PL.58196	PL.58195	B	6 A (CWC)	7.34Y	122.4	0.11	2.59	23.06	16	164	43	97	0.13	0.1	1.549	0.104	0	0	0	24
PL.42639	PL.58196	B	6 A (CWC)	7.34Y	122.4	0.03	2.63	20.69	15	147	39	97	0.03	0.0	1.584	0.034	12	3	1	23
PL.64119	PL.42639	B	6 A (CWC)	7.34Y	122.4	0.00	2.63	18.95	14	135	36	97	0.00	0.0	1.588	0.004	0	0	0	22
PD.9528	PL.64119	B	40T	7.34Y	122.4	0.00	2.63	18.95	0	135	36	97	0.00	0.0	1.588	0.004	0	0	0	22
PL.64120	PD.9528	B	6 A (CWC)	7.34Y	122.4	0.01	2.64	18.95	14	135	36	97	0.01	0.0	1.604	0.017	12	3	2	22
PL.42640	PL.64120	B	6 A (CWC)	7.34Y	122.3	0.06	2.71	17.32	12	123	33	97	0.06	0.0	1.690	0.086	11	3	2	20
PL.41739	PL.42640	B	#2 ACSR	7.34Y	122.3	0.00	2.71	1.42	1	10	3	96	0.00	0.0	1.745	0.055	10	3	1	1
PL.42641	PL.42640	B	6 A (CWC)	7.34Y	122.3	0.04	2.74	14.31	10	102	27	97	0.03	0.0	1.752	0.061	12	3	1	17
PL.42642	PL.42641	B	6 A (CWC)	7.33Y	122.2	0.04	2.79	12.57	9	89	24	97	0.03	0.0	1.826	0.074	3	1	1	16
PL.42643	PL.42642	B	6 A (CWC)	7.33Y	122.2	0.04	2.83	12.14	9	86	23	97	0.02	0.0	1.905	0.079	13	3	2	15
PL.41020	PL.42643	B	#4 ACSR	7.33Y	122.2	0.00	2.83	1.26	1	9	2	98	0.00	0.0	1.968	0.062	9	2	1	1
PL.42644	PL.42643	B	6 A (CWC)	7.33Y	122.1	0.05	2.88	9.01	6	64	17	97	0.02	0.0	2.047	0.142	12	3	2	12
PL.42645	PL.42644	B	6 A (CWC)	7.33Y	122.1	0.02	2.90	6.02	4	43	11	97	0.01	0.0	2.118	0.071	0	0	0	8
PL.41453	PL.42645	B	#4 ACSR	7.33Y	122.1	0.00	2.90	0.77	1	5	1	98	0.00	0.0	2.159	0.040	5	1	2	2
PL.42646	PL.42645	B	6 A (CWC)	7.33Y	122.1	0.01	2.91	5.25	4	37	10	97	0.00	0.0	2.158	0.039	0	0	0	6
PL.41561	PL.42646	B	#1/0 ACSR	7.33Y	122.1	0.00	2.91	1.48	1	11	3	96	0.00	0.0	2.200	0.043	11	3	1	1
PL.42647	PL.42646	B	6 A (CWC)	7.33Y	122.1	0.00	2.91	3.77	3	27	7	97	0.00	0.0	2.181	0.023	0	0	0	5
PL.41464	PL.42647	B	#4 ACSR	7.33Y	122.1	0.00	2.91	0.01	0	0	0	100	0.00	0.0	2.216	0.035	0	0	2	2
PL.42648	PL.42647	B	6 A (CWC)	7.32Y	122.1	0.01	2.92	3.76	3	27	7	97	0.00	0.0	2.223	0.042	9	2	1	3
PL.42649	PL.42648	B	6 A (CWC)	7.32Y	122.1	0.00	2.92	0.94	1	7	2	96	0.00	0.0	2.358	0.135	7	2	1	1
PL.41701	PL.42648	B	#4 ACSR	7.32Y	122.1	0.00	2.92	1.61	1	11	3	96	0.00	0.0	2.266	0.043	11	3	1	1
PL.41495	PL.42644	B	#4 ACSR	7.33Y	122.1	0.00	2.88	1.26	1	9	2	98	0.00	0.0	2.112	0.064	9	2	2	2
PL.41497	PL.58196	B	#2 ACSR	7.34Y	122.4	0.00	2.60	2.36	1	17	4	97	0.00	0.0	1.592	0.042	17	4	1	1
PL.41510	PL.41509	ABC	336 MCM AC	7.36Y	122.6	0.07	2.41	204.42	39	4294	1390	95	1.52	0.0	1.157	0.043	3	1	2	595
PL.41511	PL.41510	B	#4 ACSR	7.36Y	122.6	0.00	2.41	0.00	0	0	0	100	0.00	0.0	1.162	0.006	0	0	0	0
PD.6785	PL.41511	B	60QA	7.36Y	122.6	0.00	2.41	0.00	0	0	0	100	0.00	0.0	1.162	0.006	0	0	0	0
PL.41512	PD.6785	B	#4 ACSR	7.36Y	122.6	0.00	2.41	0.00	0	0	0	100	0.00	0.0	1.202	0.040	0	0	0	0

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41513	PL.41510	ABC	336 MCM AC	7.35Y	122.5	0.14	2.55	204.30	39	4290	1385	95	3.10	0.1	1.245	0.088	0	0	0	593
PL.66130	PL.41513	ABC	336 MCM AC	7.34Y	122.4	0.06	2.61	204.30	39	4287	1378	95	1.39	0.0	1.284	0.040	0	0	0	593
PL.66131	PL.66130	ABC	336 MCM AC	7.34Y	122.3	0.05	2.66	204.06	39	4280	1374	95	1.06	0.0	1.314	0.030	0	0	0	592
PL.42021	PL.66131	ABC	336 MCM AC	7.34Y	122.3	0.08	2.74	203.42	39	4266	1368	95	1.85	0.0	1.368	0.053	9	2	1	591
PL.42022	PL.42021	ABC	336 MCM AC	7.33Y	122.2	0.05	2.79	202.98	39	4255	1361	95	1.16	0.0	1.401	0.033	0	0	0	590
PL.42023	PL.42022	C	6 A (CWC)	7.33Y	122.2	0.00	2.80	2.45	2	17	5	96	0.00	0.0	1.407	0.006	0	0	0	3
PD.6463	PL.42023	C	60QA	7.33Y	122.2	0.00	2.80	2.45	4	17	5	96	0.00	0.0	1.407	0.006	0	0	0	3
PL.42024	PD.6463	C	#2 ACSR	7.33Y	122.2	0.00	2.80	2.45	1	17	5	96	0.00	0.0	1.461	0.054	6	2	1	3
PL.51982	PL.42024	C	#2 ACSR	7.33Y	122.2	0.00	2.80	1.57	1	11	3	96	0.00	0.0	1.547	0.086	11	3	2	2
PL.42025	PL.42022	ABC	336 MCM AC	7.33Y	122.1	0.10	2.90	202.17	39	4236	1353	95	2.20	0.1	1.465	0.064	7	2	1	587
PL.42026	PL.42025	ABC	336 MCM AC	7.32Y	121.9	0.18	3.08	201.84	39	4227	1347	95	3.97	0.1	1.581	0.116	0	0	0	586
PL.42027	PL.42026	C	6 A (CWC)	7.31Y	121.9	0.01	3.09	37.42	27	265	70	97	0.02	0.0	1.586	0.006	0	0	0	35
PD.6786	PL.42027	C	60QA	7.31Y	121.9	0.00	3.09	37.42	62	265	70	97	0.00	0.0	1.586	0.006	0	0	0	35
PL.42028	PD.6786	C	6 A (CWC)	7.30Y	121.7	0.18	3.26	37.42	27	265	70	97	0.34	0.1	1.693	0.106	15	4	2	35
PL.42029	PL.42028	C	6 A (CWC)	7.30Y	121.7	0.01	3.27	9.82	7	69	18	97	0.00	0.0	1.711	0.019	6	2	2	12
PL.42271	PL.42029	C	#4 ACSR	7.30Y	121.7	0.00	3.27	2.07	2	15	4	97	0.00	0.0	1.735	0.024	15	4	2	4
PL.42272	PL.42271	C	#4 ACSR	7.30Y	121.7	0.00	3.27	0.01	0	0	0	100	0.00	0.0	1.778	0.042	0	0	2	2
PL.42273	PL.42029	C	6 A (CWC)	7.30Y	121.7	0.02	3.29	6.90	5	49	13	97	0.01	0.0	1.774	0.062	13	3	1	6
PL.59277	PL.42273	C	6 A (CWC)	7.30Y	121.7	0.01	3.29	5.03	4	36	9	97	0.00	0.0	1.817	0.043	20	5	4	5
PL.59278	PL.59277	C	6 A (CWC)	7.30Y	121.7	0.00	3.30	2.23	2	16	4	97	0.00	0.0	1.872	0.055	16	4	1	1
PL.42274	PL.42028	C	6 A (CWC)	7.30Y	121.7	0.04	3.30	25.45	18	180	48	97	0.05	0.0	1.726	0.033	14	4	1	21
PL.42275	PL.42274	C	6 A (CWC)	7.30Y	121.7	0.05	3.35	23.47	17	166	44	97	0.06	0.0	1.771	0.046	0	0	0	20
PL.59274	PL.42275	C	6 A (CWC)	7.30Y	121.6	0.03	3.38	18.55	13	131	35	97	0.03	0.0	1.816	0.044	36	9	4	15
PL.59275	PL.59274	C	6 A (CWC)	7.29Y	121.6	0.04	3.42	13.48	10	95	25	97	0.03	0.0	1.884	0.068	11	3	1	11
PL.42277	PL.59275	C	6 A (CWC)	7.29Y	121.6	0.03	3.45	11.86	8	84	22	97	0.02	0.0	1.940	0.056	22	6	4	10
PL.42278	PL.42277	C	6 A (CWC)	7.29Y	121.5	0.02	3.46	7.65	5	54	14	97	0.01	0.0	1.997	0.057	24	6	3	5
PL.57589	PL.42278	C	6 A (CWC)	7.29Y	121.5	0.01	3.47	4.31	3	30	8	97	0.00	0.0	2.031	0.034	0	0	0	2
PL.57590	PL.57589	C	6 A (CWC)	7.29Y	121.5	0.00	3.47	2.01	1	14	4	96	0.00	0.0	2.110	0.079	14	4	1	1
PL.57591	PL.57589	C	6 A (CWC)	7.29Y	121.5	0.00	3.47	2.30	2	16	4	97	0.00	0.0	2.082	0.051	16	4	1	1
PL.62030	PL.42277	C	6 A (CWC)	7.29Y	121.6	0.00	3.45	1.10	1	8	2	97	0.00	0.0	1.975	0.035	8	2	1	1
PL.42276	PL.42275	C	#2 ACSR	7.30Y	121.6	0.01	3.36	4.92	3	35	9	97	0.00	0.0	1.826	0.055	0	0	2	5

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.57937	PL.42276	C	#2 ACSR	7.30Y	121.6	0.01	3.36	4.91	3	35	9	97	0.00	0.0	1.871	0.045	8	2	1	3
PL.57938	PL.57937	C	#2 ACSR	7.30Y	121.6	0.00	3.36	0.00	0	0	0	100	0.00	0.0	1.917	0.046	0	0	0	0
PL.61166	PL.57937	C	#1/0 ACSR	7.30Y	121.6	0.00	3.36	3.74	2	26	7	97	0.00	0.0	1.894	0.023	26	7	2	2
PL.42279	PL.42026	ABC	336 MCM AC	7.31Y	121.9	0.06	3.14	189.39	36	3958	1267	95	1.31	0.0	1.624	0.043	13	3	1	551
PL.59381	PL.42279	ABC	336 MCM AC	7.30Y	121.7	0.13	3.27	188.79	36	3945	1261	95	2.58	0.1	1.710	0.086	17	4	1	550
PL.63237	PL.59381	A	#1/0 ACSR	7.30Y	121.7	0.00	3.27	1.12	0	8	2	97	0.00	0.0	1.714	0.003	0	0	0	1
PD.9475	PL.63237	A	20T	7.30Y	121.7	0.00	3.27	1.12	0	8	2	97	0.00	0.0	1.714	0.003	0	0	0	1
PL.63238	PD.9475	A	#1/0 ACSR	7.30Y	121.7	0.00	3.27	1.12	0	8	2	97	0.00	0.0	1.745	0.031	8	2	1	1
PL.59382	PL.59381	ABC	336 MCM AC	7.30Y	121.6	0.09	3.36	187.62	36	3917	1248	95	1.89	0.0	1.774	0.064	0	0	0	548
PL.42281	PL.59382	ABC	336 MCM AC	7.29Y	121.6	0.06	3.42	185.07	36	3861	1230	95	1.21	0.0	1.816	0.042	8	2	2	543
PL.42282	PL.42281	ABC	336 MCM AC	7.29Y	121.5	0.09	3.51	184.71	36	3852	1225	95	1.87	0.0	1.881	0.065	0	0	0	541
PL.42283	PL.42282	C	#4 ACSR	7.29Y	121.5	0.00	3.51	0.83	1	6	2	95	0.00	0.0	1.887	0.006	0	0	0	2
PD.6396	PL.42283	C	60QA	7.29Y	121.5	0.00	3.51	0.83	1	6	2	95	0.00	0.0	1.887	0.006	0	0	0	2
PL.42284	PD.6396	C	#4 ACSR	7.29Y	121.5	0.00	3.52	0.83	1	6	2	95	0.00	0.0	1.968	0.081	6	2	2	2
PL.42285	PL.42282	ABC	336 MCM AC	7.29Y	121.4	0.04	3.56	184.43	36	3844	1219	95	0.89	0.0	1.912	0.031	7	2	1	539
PL.42288	PL.42285	ABC	336 MCM AC	7.28Y	121.4	0.07	3.62	184.09	35	3836	1215	95	1.32	0.0	1.959	0.046	4	1	1	538
PL.42289	PL.42288	ABC	336 MCM AC	7.28Y	121.3	0.09	3.71	183.89	35	3831	1211	95	1.76	0.0	2.021	0.062	0	0	0	537
PL.42290	PL.42289	C	#4 ACSR	7.28Y	121.3	0.00	3.71	1.39	1	10	3	96	0.00	0.0	2.026	0.006	0	0	0	1
PD.6657	PL.42290	C	60QA	7.28Y	121.3	0.00	3.71	1.39	2	10	3	96	0.00	0.0	2.026	0.006	0	0	0	1
PL.42291	PD.6657	C	#4 ACSR	7.28Y	121.3	0.00	3.71	1.39	1	10	3	96	0.00	0.0	2.039	0.012	10	3	1	1
PL.42292	PL.42289	ABC	336 MCM AC	7.27Y	121.2	0.06	3.78	183.43	35	3819	1204	95	1.27	0.0	2.065	0.045	0	0	1	536
PL.42293	PL.42292	ABC	336 MCM AC	7.27Y	121.1	0.08	3.86	183.43	35	3818	1201	95	1.60	0.0	2.122	0.057	8	2	1	535
PL.42294	PL.42293	ABC	336 MCM AC	7.26Y	121.0	0.18	4.04	183.07	35	3809	1195	95	3.58	0.1	2.249	0.127	0	0	0	534
PL.42297	PL.42294	ABC	336 MCM AC	7.25Y	120.8	0.18	4.22	182.93	35	3802	1186	95	3.63	0.1	2.378	0.129	21	5	4	532
PL.42298	PL.42297	ABC	336 MCM AC	7.24Y	120.7	0.10	4.32	181.95	35	3778	1172	96	2.01	0.1	2.450	0.072	9	2	1	528
PL.41293	PL.42298	A	6 A (CWC)	7.24Y	120.7	0.00	4.32	0.27	0	2	1	89	0.00	0.0	2.494	0.044	2	1	1	1
PL.42299	PL.42298	ABC	336 MCM AC	7.24Y	120.6	0.09	4.41	181.41	35	3765	1164	96	1.83	0.0	2.517	0.066	10	3	3	526
PL.42300	PL.42299	A	6 A (CWC)	7.24Y	120.6	0.00	4.41	1.42	1	10	3	96	0.00	0.0	2.522	0.006	0	0	0	1
PD.6465	PL.42300	A	60QA	7.24Y	120.6	0.00	4.41	1.42	2	10	3	96	0.00	0.0	2.522	0.006	0	0	0	1
PL.42301	PD.6465	A	6 A (CWC)	7.24Y	120.6	0.00	4.41	1.42	1	10	3	96	0.00	0.0	2.555	0.033	10	3	1	1
PL.59355	PL.42299	ABC	336 MCM AC	7.23Y	120.5	0.07	4.48	180.46	35	3743	1155	96	1.29	0.0	2.564	0.047	52	14	5	522

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.59356	PL.59355	ABC	336 MCM AC	7.23Y	120.5	0.07	4.55	177.96	34	3689	1138	96	1.35	0.0	2.615	0.051	14	4	2	517
PL.42302	PL.59356	A	#4 ACSR	7.23Y	120.4	0.01	4.55	20.50	16	143	38	97	0.01	0.0	2.620	0.006	0	0	0	16
PD.6397	PL.42302	A	30T	7.23Y	120.4	0.00	4.55	20.50	0	143	38	97	0.00	0.0	2.620	0.006	0	0	0	16
PL.66261	PD.6397	A	#4 ACSR	7.23Y	120.4	0.03	4.58	20.50	16	143	38	97	0.03	0.0	2.653	0.033	3	1	1	16
PL.66262	PL.66261	A	#4 ACSR	7.22Y	120.4	0.02	4.60	20.00	15	140	37	97	0.02	0.0	2.682	0.029	18	5	2	15
PL.57584	PL.66262	A	#4 ACSR	7.22Y	120.4	0.01	4.61	6.22	5	43	11	97	0.00	0.0	2.723	0.041	31	8	3	5
PL.57585	PL.57584	A	#4 ACSR	7.22Y	120.4	0.00	4.61	0.00	0	0	0	100	0.00	0.0	2.764	0.041	0	0	0	0
PL.57583	PL.57584	A	#4 ACSR	7.22Y	120.4	0.00	4.61	1.80	1	13	3	97	0.00	0.0	2.761	0.038	13	3	2	2
PL.42304	PL.66262	A	#4 ACSR	7.22Y	120.4	0.04	4.64	11.18	9	78	21	97	0.02	0.0	2.767	0.085	15	4	1	8
PL.57600	PL.42304	A	#4 ACSR	7.22Y	120.4	0.00	4.64	0.56	0	4	1	97	0.00	0.0	2.815	0.049	4	1	1	1
PL.42305	PL.42304	A	#4 ACSR	7.22Y	120.3	0.02	4.66	8.52	7	60	16	97	0.01	0.0	2.821	0.054	28	7	3	6
PL.42306	PL.42305	A	#4 ACSR	7.22Y	120.3	0.02	4.68	4.51	3	31	8	97	0.00	0.0	2.941	0.120	9	2	1	3
PL.42307	PL.42306	A	#4 ACSR	7.22Y	120.3	0.00	4.68	3.24	2	23	6	97	0.00	0.0	3.003	0.062	23	6	2	2
PL.41787	PL.59356	ABC	336 MCM AC	7.22Y	120.4	0.05	4.60	170.47	33	3531	1093	96	0.96	0.0	2.654	0.039	0	0	0	499
PL.41788	PL.41787	ABC	336 MCM AC	7.22Y	120.4	0.04	4.64	170.47	33	3530	1091	96	0.84	0.0	2.688	0.034	3	1	2	499
PL.59345	PL.41788	ABC	336 MCM AC	7.22Y	120.3	0.04	4.68	170.35	33	3526	1089	96	0.71	0.0	2.717	0.029	15	4	3	497
PL.59346	PL.59345	ABC	336 MCM AC	7.22Y	120.3	0.05	4.74	169.64	33	3511	1083	96	1.01	0.0	2.759	0.042	0	0	0	494
PL.42221	PL.59346	ABC	336 MCM AC	7.21Y	120.2	0.04	4.77	169.64	33	3510	1081	96	0.73	0.0	2.789	0.030	0	0	0	494
PL.62809	PL.42221	ABC	336 MCM AC	7.20Y	120.1	0.16	4.93	169.64	33	3509	1079	96	2.97	0.1	2.912	0.122	1	0	1	494
PL.62812	PL.62809	B	#4 ACSR	7.20Y	120.1	0.00	4.94	14.36	11	100	26	97	0.00	0.0	2.915	0.004	0	0	0	14
PD.9451	PL.62812	B	40T	7.20Y	120.1	0.00	4.94	14.36	0	100	26	97	0.00	0.0	2.915	0.004	0	0	0	14
PL.58930	PD.9451	B	#4 ACSR	7.20Y	120.0	0.02	4.96	14.36	11	100	26	97	0.02	0.0	2.948	0.033	0	0	0	14
PL.64687	PL.58930	B	#4 ACSR	7.20Y	120.0	0.00	4.96	14.36	11	100	26	97	0.00	0.0	2.949	0.000	0	0	0	14
PL.64688	PL.64687	B	#4 ACSR	7.20Y	120.0	0.02	4.98	14.36	11	100	26	97	0.02	0.0	2.986	0.038	5	1	1	14
PL.41656	PL.64688	B	#4 ACSR	7.20Y	120.0	0.03	5.02	13.67	11	95	25	97	0.02	0.0	3.050	0.064	24	6	2	13
PL.42308	PL.41656	B	#4 ACSR	7.20Y	120.0	0.02	5.04	10.29	8	72	19	97	0.01	0.0	3.113	0.063	29	8	3	11
PL.42309	PL.42308	B	#4 ACSR	7.20Y	120.0	0.01	5.05	6.09	5	42	11	97	0.00	0.0	3.150	0.037	11	3	1	8
PL.42310	PL.42309	B	#4 ACSR	7.20Y	120.0	0.00	5.05	4.57	4	32	8	97	0.00	0.0	3.166	0.016	7	2	1	7
PL.42311	PL.42310	B	#4 ACSR	7.20Y	119.9	0.00	5.05	3.59	3	25	7	96	0.00	0.0	3.182	0.016	12	3	1	6
PL.42312	PL.42311	B	#4 ACSR	7.20Y	119.9	0.00	5.05	1.82	1	13	3	97	0.00	0.0	3.199	0.017	13	3	3	5
PL.42313	PL.42312	B	#4 ACSR	7.20Y	119.9	0.00	5.05	0.00	0	0	0	100	0.00	0.0	3.248	0.049	0	0	2	2

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.62811	PL.62809	ABC	336 MCM AC	7.20Y	120.0	0.08	5.01	164.80	32	3405	1045	96	1.40	0.0	2.973	0.061	0	0	0	479
PL.42315	PL.62811	A	6 A (CWC)	7.20Y	120.0	0.00	5.01	3.83	3	27	7	97	0.00	0.0	2.979	0.006	0	0	0	2
PD.6398	PL.42315	A	60QA	7.20Y	120.0	0.00	5.01	3.83	6	27	7	97	0.00	0.0	2.979	0.006	0	0	0	2
PL.59128	PD.6398	A	6 A (CWC)	7.20Y	120.0	0.01	5.02	3.83	3	27	7	97	0.00	0.0	3.013	0.035	0	0	0	2
PL.59129	PL.59128	A	6 A (CWC)	7.20Y	120.0	0.01	5.03	3.83	3	27	7	97	0.00	0.0	3.105	0.091	27	7	2	2
PL.42314	PL.62811	ABC	336 MCM AC	7.18Y	119.7	0.28	5.29	163.53	32	3377	1035	96	4.95	0.1	3.193	0.220	0	0	0	477
PL.42316	PL.42314	C	6 A (CWC)	7.18Y	119.7	0.00	5.29	1.55	1	11	3	96	0.00	0.0	3.198	0.006	0	0	0	3
PD.6399	PL.42316	C	60QA	7.18Y	119.7	0.00	5.29	1.55	3	11	3	96	0.00	0.0	3.198	0.006	0	0	0	3
PL.42317	PD.6399	C	6 A (CWC)	7.18Y	119.7	0.00	5.29	1.55	1	11	3	96	0.00	0.0	3.238	0.039	0	0	0	3
PL.41756	PL.42317	C	6 A (CWC)	7.18Y	119.7	0.00	5.29	1.55	1	11	3	96	0.00	0.0	3.299	0.061	11	3	1	3
PL.41544	PL.41756	C	#4 ACSR	7.18Y	119.7	0.00	5.29	0.00	0	0	0	100	0.00	0.0	3.351	0.052	0	0	0	0
PL.41466	PL.41756	C	6 A (CWC)	7.18Y	119.7	0.00	5.29	0.00	0	0	0	100	0.00	0.0	3.345	0.046	0	0	1	1
PL.41394	PL.41756	C	6 A (CWC)	7.18Y	119.7	0.00	5.29	0.02	0	0	0	100	0.00	0.0	3.360	0.061	0	0	0	1
PL.64795	PL.41394	C	#1/0 ACSR	7.18Y	119.7	0.00	5.29	0.02	0	0	0	100	0.00	0.0	3.399	0.040	0	0	1	1
PL.41467	PL.42314	A	6 A (CWC)	7.18Y	119.7	0.01	5.30	32.52	23	226	60	97	0.01	0.0	3.198	0.006	0	0	0	30
PD.6791	PL.41467	A	50L	7.18Y	119.7	0.00	5.30	32.52	65	226	60	97	0.00	0.0	3.198	0.006	0	0	0	30
PL.56043	PD.6791	A	6 A (CWC)	7.17Y	119.6	0.13	5.43	32.52	23	226	60	97	0.22	0.1	3.293	0.095	25	7	3	30
PL.56044	PL.56043	A	6 A (CWC)	7.17Y	119.5	0.09	5.51	28.95	21	201	53	97	0.13	0.1	3.359	0.066	0	0	0	27
PL.56049	PL.56044	A	6 A (CWC)	7.17Y	119.4	0.06	5.58	19.08	14	132	35	97	0.06	0.0	3.434	0.075	14	4	2	20
PL.56050	PL.56049	A	6 A (CWC)	7.16Y	119.4	0.07	5.64	17.05	12	118	31	97	0.06	0.0	3.520	0.087	7	2	2	18
PL.41309	PL.56050	A	6 A (CWC)	7.16Y	119.4	0.00	5.64	0.97	1	7	2	96	0.00	0.0	3.581	0.060	7	2	1	1
PL.41471	PL.56050	A	6 A (CWC)	7.15Y	119.2	0.11	5.75	15.01	11	104	27	97	0.09	0.1	3.680	0.160	0	0	0	15
PL.41472	PL.41471	A	6 A (CWC)	7.15Y	119.2	0.03	5.78	11.63	8	80	21	97	0.02	0.0	3.742	0.062	5	1	1	11
PL.41473	PL.41472	A	6 A (CWC)	7.15Y	119.2	0.02	5.81	10.97	8	76	20	97	0.01	0.0	3.793	0.051	5	1	1	10
PL.61164	PL.41473	A	6 A (CWC)	7.15Y	119.2	0.01	5.82	10.25	7	71	19	97	0.01	0.0	3.833	0.040	28	7	3	9
PL.61165	PL.61164	A	6 A (CWC)	7.15Y	119.2	0.02	5.84	6.27	4	43	11	97	0.00	0.0	3.907	0.074	21	6	2	6
PL.41474	PL.61165	A	6 A (CWC)	7.15Y	119.2	0.01	5.84	3.22	2	22	6	96	0.00	0.0	3.976	0.069	21	6	3	4
PL.41475	PL.41474	A	6 A (CWC)	7.15Y	119.2	0.00	5.84	0.12	0	1	0	100	0.00	0.0	4.034	0.058	0	0	0	1
PL.41889	PL.41475	A	#2 ACSR	7.15Y	119.2	0.00	5.84	0.12	0	1	0	100	0.00	0.0	4.108	0.074	1	0	1	1
PL.41478	PL.41475	A	6 A (CWC)	7.15Y	119.2	0.00	5.84	0.00	0	0	0	100	0.00	0.0	4.084	0.050	0	0	0	0
PL.61163	PL.61164	A	6 A (CWC)	7.15Y	119.2	0.00	5.82	0.00	0	0	0	100	0.00	0.0	4.256	0.424	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41414	PL.41471	A	6 A (CWC)	7.15Y	119.2	0.01	5.76	3.38	2	23	6	97	0.00	0.0	3.761	0.080	23	6	4	4
PL.58915	PL.56044	A	6 A (CWC)	7.17Y	119.5	0.00	5.52	9.87	7	68	18	97	0.00	0.0	3.362	0.003	0	0	0	7
PD.8488	PL.58915	A	20T	7.17Y	119.5	0.00	5.52	9.87	0	68	18	97	0.00	0.0	3.362	0.003	0	0	0	7
PL.58916	PD.8488	A	6 A (CWC)	7.17Y	119.5	0.01	5.52	9.87	7	68	18	97	0.00	0.0	3.380	0.018	5	1	2	7
PL.56048	PL.58916	A	6 A (CWC)	7.17Y	119.4	0.03	5.56	9.16	7	64	17	97	0.01	0.0	3.473	0.093	20	5	2	5
PL.41468	PL.56048	A	6 A (CWC)	7.17Y	119.4	0.03	5.58	6.30	4	44	12	96	0.01	0.0	3.580	0.107	14	4	1	3
PL.41469	PL.41468	A	6 A (CWC)	7.16Y	119.4	0.00	5.59	4.34	3	30	8	97	0.00	0.0	3.607	0.027	30	8	2	2
PL.41470	PL.41469	A	6 A (CWC)	7.16Y	119.4	0.00	5.59	0.00	0	0	0	100	0.00	0.0	3.673	0.066	0	0	0	0
PL.56045	PL.42314	ABC	336 MCM AC	7.18Y	119.6	0.09	5.38	152.18	29	3135	961	96	1.48	0.0	3.269	0.076	14	4	1	444
PL.56046	PL.56045	C	#4 ACSR	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	3.275	0.006	0	0	0	0
PD.6607	PL.56046	C	60QA	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	3.275	0.006	0	0	0	0
PL.41340	PD.6607	C	#4 ACSR	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	3.327	0.053	0	0	0	0
PL.41341	PL.41340	C	#4 ACSR	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	3.399	0.071	0	0	0	0
PL.56047	PL.56045	ABC	336 MCM AC	7.17Y	119.6	0.06	5.44	151.06	29	3110	951	96	1.00	0.0	3.321	0.052	11	3	1	442
PL.41458	PL.56047	ABC	336 MCM AC	7.17Y	119.5	0.07	5.51	150.51	29	3098	946	96	1.20	0.0	3.384	0.063	6	2	1	441
PL.41459	PL.41458	C	6 A (CWC)	7.17Y	119.5	0.00	5.51	3.98	3	28	7	97	0.00	0.0	3.390	0.006	0	0	0	3
PD.6501	PL.41459	C	60QA	7.17Y	119.5	0.00	5.51	3.98	7	28	7	97	0.00	0.0	3.390	0.006	0	0	0	3
PL.41476	PD.6501	C	6 A (CWC)	7.17Y	119.5	0.01	5.52	3.98	3	28	7	97	0.00	0.0	3.432	0.042	10	3	1	3
PL.41859	PL.41476	C	6 A (CWC)	7.17Y	119.5	0.00	5.52	0.04	0	0	0	100	0.00	0.0	3.520	0.087	0	0	1	1
PL.41477	PL.41476	C	6 A (CWC)	7.17Y	119.5	0.01	5.52	2.56	2	18	5	96	0.00	0.0	3.526	0.093	18	5	1	1
PL.59398	PL.41458	ABC	336 MCM AC	7.16Y	119.3	0.22	5.73	148.88	29	3063	934	96	3.61	0.1	3.578	0.194	12	3	1	437
PL.59402	PL.59398	ABC	336 MCM AC	7.15Y	119.2	0.04	5.77	148.28	29	3047	922	96	0.59	0.0	3.610	0.032	0	0	0	436
PL.59404	PL.59402	C	#1/0 ACSR	7.15Y	119.2	0.00	5.77	0.06	0	0	0	100	0.00	0.0	3.667	0.057	0	0	1	1
PL.59403	PL.59402	ABC	336 MCM AC	7.15Y	119.1	0.15	5.91	148.27	29	3046	921	96	2.43	0.1	3.741	0.131	0	0	0	435
PL.59400	PL.59403	C	#4 ACSR	7.15Y	119.1	0.00	5.91	0.04	0	0	0	100	0.00	0.0	3.747	0.006	0	0	0	1
PD.6693	PL.59400	C	60QA	7.15Y	119.1	0.00	5.91	0.04	0	0	0	100	0.00	0.0	3.747	0.006	0	0	0	1
PL.41479	PD.6693	C	#4 ACSR	7.15Y	119.1	0.00	5.91	0.04	0	0	0	100	0.00	0.0	3.801	0.054	0	0	0	1
PL.41480	PL.41479	C	#4 ACSR	7.15Y	119.1	0.00	5.91	0.04	0	0	0	100	0.00	0.0	3.892	0.091	0	0	1	1
PL.59399	PL.59403	ABC	336 MCM AC	7.14Y	119.0	0.10	6.01	147.43	28	3026	910	96	1.57	0.1	3.827	0.086	0	0	0	433
PL.41819	PL.59399	ABC	336 MCM AC	7.13Y	118.9	0.07	6.08	147.43	28	3025	907	96	1.22	0.0	3.893	0.066	0	0	0	433
PL.41820	PL.41819	ABC	336 MCM AC	7.13Y	118.9	0.01	6.10	78.88	15	1608	515	95	0.12	0.0	3.917	0.024	0	0	0	264

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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41368	PL.41820	ABC	#3/0 ACSR	7.13Y	118.9	0.01	6.11	78.88	26	1608	515	95	0.06	0.0	3.923	0.006	0	0	0	264
PD.6622	PL.41368	ABC	140VWE	7.13Y	118.9	0.00	6.11	78.88	38	1608	515	95	0.00	0.0	3.923	0.006	0	0	0	264
PL.41369	PD.6622	ABC	#3/0 ACSR	7.13Y	118.8	0.13	6.24	78.88	26	1608	515	95	1.33	0.1	4.050	0.128	0	0	0	264
PL.41482	PL.41369	ABC	#3/0 ACSR	7.12Y	118.6	0.16	6.39	76.45	25	1556	500	95	1.56	0.1	4.209	0.159	4	1	1	261
PL.54053	PL.41482	ABC	#3/0 ACSR	7.11Y	118.5	0.08	6.47	76.27	25	1551	496	95	0.76	0.0	4.289	0.079	33	9	2	260
PL.62010	PL.54053	ABC	#3/0 ACSR	7.11Y	118.5	0.03	6.50	73.99	25	1503	483	95	0.30	0.0	4.322	0.033	8	2	1	256
PL.62011	PL.62010	ABC	#3/0 ACSR	7.10Y	118.4	0.09	6.60	73.61	25	1495	480	95	0.89	0.1	4.419	0.098	0	0	0	255
PL.41483	PL.62011	C	6 A (CWC)	7.10Y	118.4	0.00	6.60	10.26	7	70	19	97	0.00	0.0	4.425	0.006	0	0	0	12
PD.6733	PL.41483	C	50QA	7.10Y	118.4	0.00	6.60	10.26	21	70	19	97	0.00	0.0	4.425	0.006	0	0	0	12
PL.41484	PD.6733	C	6 A (CWC)	7.10Y	118.4	0.03	6.63	10.26	7	70	19	97	0.02	0.0	4.494	0.070	0	0	0	12
PL.41601	PL.41484	C	6 A (CWC)	7.10Y	118.4	0.00	6.63	1.05	1	7	2	96	0.00	0.0	4.552	0.058	7	2	1	1
PL.41485	PL.41484	C	6 A (CWC)	7.10Y	118.3	0.03	6.66	9.21	7	63	17	97	0.01	0.0	4.578	0.083	10	3	1	11
PL.41486	PL.41485	C	6 A (CWC)	7.10Y	118.3	0.05	6.71	7.69	5	53	14	97	0.02	0.0	4.719	0.141	0	0	0	10
PL.41487	PL.41486	C	6 A (CWC)	7.10Y	118.3	0.03	6.75	6.03	4	41	11	97	0.01	0.0	4.832	0.113	0	0	0	8
PL.41518	PL.41487	C	6 A (CWC)	7.09Y	118.2	0.02	6.76	4.42	3	30	8	97	0.00	0.0	4.909	0.077	0	0	0	5
PL.41519	PL.41518	C	6 A (CWC)	7.09Y	118.2	0.01	6.77	4.42	3	30	8	97	0.00	0.0	4.947	0.039	0	0	0	5
PL.41520	PL.41519	C	6 A (CWC)	7.09Y	118.2	0.01	6.77	4.42	3	30	8	97	0.00	0.0	4.984	0.037	12	3	2	5
PL.59136	PL.41520	C	6 A (CWC)	7.09Y	118.2	0.00	6.78	2.61	2	18	5	96	0.00	0.0	5.046	0.062	18	5	2	3
PL.62045	PL.59136	C	6 A (CWC)	7.09Y	118.2	0.00	6.78	0.00	0	0	0	100	0.00	0.0	5.087	0.041	0	0	1	1
PL.41488	PL.41487	C	6 A (CWC)	7.09Y	118.2	0.01	6.75	1.60	1	11	3	96	0.00	0.0	4.911	0.080	0	0	0	3
PL.41489	PL.41488	C	#4 ACSR	7.09Y	118.2	0.00	6.76	1.60	1	11	3	96	0.00	0.0	4.972	0.061	0	0	0	3
PL.56041	PL.41489	C	#4 ACSR	7.09Y	118.2	0.00	6.76	1.60	1	11	3	96	0.00	0.0	5.022	0.050	11	3	2	3
PL.56042	PL.56041	C	#1/0 ACSR	7.09Y	118.2	0.00	6.76	0.01	0	0	0	100	0.00	0.0	5.080	0.057	0	0	0	1
PL.53836	PL.56042	C	#1/0 ACSR	7.09Y	118.2	0.00	6.76	0.01	0	0	0	100	0.00	0.0	5.104	0.024	0	0	0	1
PL.53784	PL.53836	C	#1/0 ACSR	7.09Y	118.2	0.00	6.76	0.01	0	0	0	100	0.00	0.0	5.148	0.044	0	0	1	1
PL.41757	PL.41488	C	6 A (CWC)	7.09Y	118.2	0.00	6.75	0.00	0	0	0	100	0.00	0.0	4.958	0.047	0	0	0	0
PL.41395	PL.41757	C	#4 ACSR	7.09Y	118.2	0.00	6.75	0.00	0	0	0	100	0.00	0.0	5.002	0.044	0	0	0	0
PL.41517	PL.41757	C	6 A (CWC)	7.09Y	118.2	0.00	6.75	0.00	0	0	0	100	0.00	0.0	5.007	0.049	0	0	0	0
PL.41460	PL.41486	C	6 A (CWC)	7.10Y	118.3	0.00	6.72	1.66	1	11	3	96	0.00	0.0	4.776	0.058	11	3	2	2
PL.41440	PL.62011	ABC	#3/0 ACSR	7.10Y	118.3	0.06	6.65	70.20	23	1423	460	95	0.51	0.0	4.481	0.062	0	0	0	243
PL.41522	PL.41440	A	#2 ACSR	7.10Y	118.3	0.00	6.66	5.92	3	41	11	97	0.00	0.0	4.487	0.006	0	0	0	4

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.6692	PL.41522	A	50QA	7.10Y	118.3	0.00	6.66	5.92	12	41	11	97	0.00	0.0	4.487	0.006	0	0	0	4
PL.41523	PD.6692	A	#2 ACSR	7.10Y	118.3	0.02	6.67	5.92	3	41	11	97	0.00	0.0	4.572	0.085	0	0	0	4
PL.41524	PL.41523	A	#2 ACSR	7.10Y	118.3	0.01	6.68	5.92	3	41	11	97	0.00	0.0	4.645	0.073	0	0	0	4
PL.41593	PL.41524	A	#2 ACSR	7.10Y	118.3	0.00	6.68	0.00	0	0	0	100	0.00	0.0	4.684	0.039	0	0	0	0
PL.41525	PL.41524	A	#2 ACSR	7.10Y	118.3	0.02	6.70	5.92	3	41	11	97	0.00	0.0	4.774	0.129	20	5	1	4
PL.64796	PL.41525	A	#2 ACSR	7.10Y	118.3	0.00	6.71	2.96	2	20	5	97	0.00	0.0	4.801	0.027	0	0	0	3
PL.64797	PL.64796	A	#2 ACSR	7.10Y	118.3	0.00	6.71	2.96	2	20	5	97	0.00	0.0	4.801	0.000	14	4	1	3
PL.63534	PL.64797	A	#1/0 ACSR	7.10Y	118.3	0.00	6.71	0.86	0	6	2	95	0.00	0.0	4.810	0.008	0	0	0	2
PL.63535	PL.63534	A	#1/0 ACSR	7.10Y	118.3	0.00	6.71	0.86	0	6	2	95	0.00	0.0	4.853	0.044	6	2	2	2
PL.41521	PL.41440	A	#4 ACSR	7.10Y	118.3	0.00	6.65	0.00	0	0	0	100	0.00	0.0	4.487	0.006	0	0	0	0
PD.6484	PL.41521	A	50QA	7.10Y	118.3	0.00	6.65	0.00	0	0	0	100	0.00	0.0	4.487	0.006	0	0	0	0
PL.54052	PD.6484	A	#4 ACSR	7.10Y	118.3	0.00	6.65	0.00	0	0	0	100	0.00	0.0	4.541	0.054	0	0	0	0
PL.42180	PL.41440	ABC	#3/0 ACSR	7.10Y	118.3	0.03	6.69	68.23	23	1382	449	95	0.29	0.0	4.517	0.036	0	0	0	239
PL.62230	PL.42180	ABC	#3/0 ACSR	7.09Y	118.2	0.12	6.81	68.23	23	1382	449	95	1.04	0.1	4.651	0.133	0	0	0	239
REG60	PL.62230	ABC	114.3 KVA	7.51Y	125.2	-7.04	-0.24	68.23	45	1381	447	95	percent Boost= 5.62 Tap= 9.0							239
PL.62231	REG60	ABC	#3/0 ACSR	7.50Y	125.0	0.27	0.03	64.15	21	1376	446	95	2.21	0.2	4.970	0.320	0	0	0	238
PL.42183	PL.62231	ABC	#3/0 ACSR	7.49Y	124.9	0.08	0.11	63.85	21	1367	441	95	0.65	0.0	5.065	0.094	0	0	0	236
PL.42184	PL.42183	A	#4 ACSR	7.49Y	124.9	0.00	0.11	2.85	2	21	5	97	0.00	0.0	5.070	0.006	0	0	0	2
PD.6485	PL.42184	A	50QA	7.49Y	124.9	0.00	0.11	2.85	6	21	5	97	0.00	0.0	5.070	0.006	0	0	0	2
PL.63232	PD.6485	A	#4 ACSR	7.49Y	124.9	0.01	0.12	2.85	2	21	5	97	0.00	0.0	5.139	0.068	0	0	0	2
PL.63233	PL.63232	A	#4 ACSR	7.49Y	124.9	0.00	0.12	2.85	2	21	5	97	0.00	0.0	5.169	0.031	3	1	1	2
PL.63234	PL.63233	A	#1/0 ACSR	7.49Y	124.9	0.00	0.12	2.42	1	18	5	96	0.00	0.0	5.173	0.004	0	0	0	1
PD.9474	PL.63234	A	20T	7.49Y	124.9	0.00	0.12	2.42	0	18	5	96	0.00	0.0	5.173	0.004	0	0	0	1
PL.63235	PD.9474	A	#1/0 ACSR	7.49Y	124.9	0.00	0.12	2.42	1	18	5	96	0.00	0.0	5.201	0.028	0	0	0	1
PL.63532	PL.63235	A	#1/0 ACSR	7.49Y	124.9	0.00	0.12	2.42	1	18	5	96	0.00	0.0	5.261	0.060	18	5	1	1
PL.63839	PL.42183	ABC	#3/0 ACSR	7.49Y	124.9	0.03	0.14	62.90	21	1346	434	95	0.28	0.0	5.107	0.042	0	0	0	234
PL.63840	PL.63839	ABC	#3/0 ACSR	7.49Y	124.9	0.00	0.14	62.90	21	1345	434	95	0.00	0.0	5.107	0.000	7	2	1	234
PL.62217	PL.63840	ABC	#3/0 ACSR	7.49Y	124.8	0.05	0.19	62.56	21	1338	432	95	0.36	0.0	5.162	0.056	5	1	1	233
PL.61156	PL.62217	ABC	#3/0 ACSR	7.48Y	124.7	0.07	0.26	62.35	21	1333	430	95	0.60	0.0	5.254	0.092	0	0	0	232
PD.9099-A	PL.61156	ABC	Closed	7.48Y	124.7	0.00	0.26	62.35	0	1332	429	95	0.00	0.0	5.254	0.092	0	0	0	232
PD.9099-B	PD.9099-A	ABC	Closed	7.48Y	124.7	0.00	0.26	62.35	0	1332	429	95	0.00	0.0	5.254	0.092	0	0	0	232

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.62017	PD.9099-B	ABC	#3/0 ACSR	7.48Y	124.7	0.02	0.28	62.35	21	1332	429	95	0.19	0.0	5.283	0.029	4	1	1	232
PL.62018	PL.62017	ABC	#3/0 ACSR	7.48Y	124.7	0.03	0.32	62.16	21	1328	428	95	0.25	0.0	5.321	0.038	9	2	1	231
PL.62019	PL.62018	ABC	#3/0 ACSR	7.48Y	124.6	0.04	0.35	61.74	21	1319	425	95	0.29	0.0	5.366	0.045	0	0	0	230
PL.62013	PL.62019	ABC	#3/0 ACSR	7.47Y	124.6	0.07	0.42	60.67	20	1295	419	95	0.52	0.0	5.450	0.084	0	0	0	226
PL.62806	PL.62013	ABC	#3/0 ACSR	7.46Y	124.3	0.25	0.67	54.01	18	1150	379	95	1.73	0.2	5.803	0.353	0	0	0	211
PL.62808	PL.62806	ABC	#3/0 ACSR	7.41Y	123.5	0.80	1.47	52.33	17	1112	367	95	5.36	0.5	6.969	1.166	0	0	0	205
PD.9450-A	PL.62808	ABC	Closed	7.41Y	123.5	0.00	1.47	52.33	0	1107	359	95	0.00	0.0	6.969	1.166	0	0	0	205
PD.9450-B	PD.9450-A	ABC	Closed	7.41Y	123.5	0.00	1.47	52.33	0	1107	359	95	0.00	0.0	6.969	1.166	0	0	0	205
PL.61157	PD.9450-B	ABC	#3/0 ACSR	7.36Y	122.7	0.87	2.34	52.33	17	1107	359	95	5.87	0.5	8.244	1.275	0	0	0	205
PD.9100-A	PL.61157	ABC	Closed	7.36Y	122.7	0.00	2.34	52.33	0	1101	351	95	0.00	0.0	8.244	1.275	0	0	0	205
PD.9100-B	PD.9100-A	ABC	Closed	7.36Y	122.7	0.00	2.34	52.33	0	1101	351	95	0.00	0.0	8.244	1.275	0	0	0	205
PL.61158	PD.9100-B	ABC	#3/0 ACSR	7.36Y	122.6	0.03	2.36	52.33	17	1101	351	95	0.17	0.0	8.281	0.037	0	0	0	205
PL.41681	PL.61158	ABC	#3/0 ACSR	7.36Y	122.6	0.01	2.37	52.33	17	1101	351	95	0.08	0.0	8.299	0.018	0	0	0	205
PL.59323	PL.41681	ABC	#3/0 ACSR	7.36Y	122.6	0.00	2.38	52.33	17	1101	351	95	0.01	0.0	8.302	0.003	0	0	0	205
RG.58	PL.59323	ABC	76.2 KVA	7.45Y	124.2	-1.55	0.82	52.33	52	1100	351	95	percent Boost= 1.25 Tap= 2.0							205
PL.59324	RG.58	ABC	#3/0 ACSR	7.40Y	123.4	0.82	1.65	51.67	17	1100	351	95	5.49	0.5	9.527	1.224	0	0	0	205
PL.52803	PL.59324	ABC	#3/0 ACSR	7.38Y	123.0	0.40	2.05	51.67	17	1095	343	95	2.69	0.2	10.133	0.606	16	4	1	205
PL.52804	PL.52803	ABC	#3/0 ACSR	7.37Y	122.9	0.04	2.09	50.94	17	1077	335	95	0.28	0.0	10.197	0.064	7	2	1	204
PL.41900	PL.52804	C	6 A (CWC)	7.37Y	122.9	0.00	2.09	1.03	1	7	2	96	0.00	0.0	10.279	0.082	7	2	1	1
PL.41901	PL.41900	C	6 A (CWC)	7.37Y	122.9	0.00	2.09	0.00	0	0	0	100	0.00	0.0	10.327	0.049	0	0	0	0
PL.41903	PL.41901	C	1/0 AL URD	7.37Y	122.9	0.00	2.09	0.00	0	0	0	100	0.00	0.0	10.333	0.006	0	0	0	0
PD.6457	PL.41903	C	50QA	7.37Y	122.9	0.00	2.09	0.00	0	0	0	100	0.00	0.0	10.333	0.006	0	0	0	0
PL.59309	PD.6457	C	1/0 AL URD	7.37Y	122.9	0.00	2.09	0.00	0	0	0	100	0.00	0.0	10.371	0.038	0	0	0	0
PL.41902	PL.41901	C	6 A (CWC)	7.37Y	122.9	0.00	2.09	0.00	0	0	0	100	0.00	0.0	10.433	0.105	0	0	0	0
PL.41402	PL.52804	ABC	#3/0 ACSR	7.37Y	122.9	0.05	2.14	50.26	17	1062	330	95	0.36	0.0	10.281	0.084	0	0	0	202
PL.42004	PL.41402	ABC	#1/0 ACSR	7.37Y	122.8	0.06	2.21	49.49	22	1045	325	95	0.43	0.0	10.349	0.068	34	9	2	197
PL.42005	PL.42004	ABC	#1/0 ACSR	7.37Y	122.8	0.04	2.25	47.89	21	1010	316	95	0.30	0.0	10.399	0.050	3	1	1	195
PL.42006	PL.42005	ABC	#1/0 ACSR	7.36Y	122.7	0.06	2.31	47.75	21	1007	315	95	0.43	0.0	10.470	0.071	0	0	0	194
PL.41420	PL.42006	ABC	#1/0 ACSR	7.36Y	122.6	0.09	2.40	47.23	21	995	312	95	0.61	0.1	10.573	0.102	5	1	1	192
PL.41421	PL.41420	ABC	#1/0 ACSR	7.35Y	122.6	0.03	2.43	46.97	20	989	310	95	0.24	0.0	10.613	0.040	6	2	1	191
PL.42250	PL.41421	ABC	#1/0 ACSR	7.35Y	122.5	0.04	2.48	28.03	12	597	160	97	0.18	0.0	10.698	0.085	7	2	2	170

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42251	PL.42250	ABC	#1/0 ACSR	7.35Y	122.5	0.01	2.48	27.68	12	590	158	97	0.03	0.0	10.713	0.016	0	0	0	168
PL.42328	PL.42251	ABC	#1/0 ACSR	7.35Y	122.5	0.00	2.49	27.68	12	590	158	97	0.01	0.0	10.719	0.006	0	0	0	168
PD.6800	PL.42328	ABC	50H	7.35Y	122.5	0.00	2.49	27.68	55	590	158	97	0.00	0.0	10.719	0.006	0	0	0	168
PL.42329	PD.6800	ABC	#1/0 ACSR	7.35Y	122.5	0.04	2.53	27.68	12	590	158	97	0.16	0.0	10.796	0.077	4	1	1	168
PL.42330	PL.42329	C	#4 ACSR	7.35Y	122.5	0.00	2.53	0.00	0	0	0	100	0.00	0.0	10.802	0.006	0	0	0	0
PD.6488	PL.42330	C	40QA	7.35Y	122.5	0.00	2.53	0.00	0	0	0	100	0.00	0.0	10.802	0.006	0	0	0	0
PL.42331	PD.6488	C	#4 ACSR	7.35Y	122.5	0.00	2.53	0.00	0	0	0	100	0.00	0.0	10.821	0.019	0	0	0	0
PL.42332	PL.42329	C	6 A (CWC)	7.35Y	122.4	0.05	2.58	6.64	5	47	12	97	0.02	0.0	10.985	0.189	8	2	1	6
PL.42333	PL.42332	C	6 A (CWC)	7.34Y	122.4	0.01	2.59	5.48	4	39	10	97	0.00	0.0	11.026	0.041	0	0	0	5
PL.42334	PL.42333	C	6 A (CWC)	7.34Y	122.4	0.01	2.60	5.48	4	39	10	97	0.00	0.0	11.087	0.061	12	3	1	5
PL.42335	PL.42334	C	6 A (CWC)	7.34Y	122.4	0.01	2.61	3.74	3	27	7	97	0.00	0.0	11.159	0.073	15	4	2	4
PL.42336	PL.42335	C	6 A (CWC)	7.34Y	122.4	0.01	2.62	1.64	1	12	3	97	0.00	0.0	11.320	0.161	12	3	2	2
PL.42337	PL.42329	ABC	#1/0 ACSR	7.35Y	122.4	0.03	2.56	25.27	11	538	144	97	0.13	0.0	10.870	0.074	0	0	0	161
PL.41736	PL.42337	A	#1/0 ACSR	7.35Y	122.4	0.00	2.56	0.00	0	0	0	100	0.00	0.0	10.944	0.074	0	0	1	1
PL.42338	PL.42337	ABC	#1/0 ACSR	7.35Y	122.4	0.01	2.57	25.27	11	538	144	97	0.05	0.0	10.899	0.029	2	0	1	160
PL.42339	PL.42338	ABC	#1/0 ACSR	7.34Y	122.4	0.02	2.60	25.19	11	536	143	97	0.09	0.0	10.951	0.052	17	4	4	159
PL.42340	PL.42339	ABC	#1/0 ACSR	7.34Y	122.4	0.04	2.63	24.39	11	519	139	97	0.14	0.0	11.042	0.091	15	4	2	155
PL.42341	PL.42340	ABC	#1/0 ACSR	7.34Y	122.3	0.04	2.68	23.66	10	504	135	97	0.16	0.0	11.148	0.105	6	2	1	152
PL.42345	PL.42341	ABC	#1/0 ACSR	7.34Y	122.3	0.03	2.71	22.64	10	481	129	97	0.09	0.0	11.216	0.068	8	2	2	149
PL.42346	PL.42345	C	6 A (CWC)	7.34Y	122.3	0.00	2.71	4.12	3	29	8	96	0.00	0.0	11.222	0.006	0	0	0	5
PD.6736	PL.42346	C	40QA	7.34Y	122.3	0.00	2.71	4.12	10	29	8	96	0.00	0.0	11.222	0.006	0	0	0	5
PL.42347	PD.6736	C	6 A (CWC)	7.34Y	122.3	0.01	2.72	4.12	3	29	8	96	0.00	0.0	11.309	0.087	18	5	3	5
PL.42348	PL.42347	C	6 A (CWC)	7.34Y	122.3	0.00	2.72	1.53	1	11	3	96	0.00	0.0	11.333	0.024	0	0	0	2
PL.42349	PL.42348	C	6 A (CWC)	7.34Y	122.3	0.00	2.72	0.53	0	4	1	97	0.00	0.0	11.384	0.051	4	1	1	1
PL.41371	PL.42348	C	#2 ACSR	7.34Y	122.3	0.00	2.72	1.00	1	7	2	96	0.00	0.0	11.438	0.105	7	2	1	1
PL.42350	PL.42345	ABC	#1/0 ACSR	7.33Y	122.2	0.05	2.76	20.86	9	444	119	97	0.16	0.0	11.354	0.138	8	2	2	142
PL.42351	PL.42350	ABC	#1/0 ACSR	7.33Y	122.2	0.02	2.78	20.47	9	435	116	97	0.05	0.0	11.402	0.049	0	0	1	140
PL.42352	PL.42351	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.79	20.46	9	435	116	97	0.03	0.0	11.433	0.031	5	1	1	139
PL.66265	PL.42352	C	6 A (CWC)	7.33Y	122.2	0.00	2.79	0.66	0	5	1	98	0.00	0.0	11.513	0.080	0	0	0	2
PL.66266	PL.66265	C	6 A (CWC)	7.33Y	122.2	0.00	2.79	0.66	0	5	1	98	0.00	0.0	11.513	0.000	5	1	2	2
PL.42355	PL.66266	C	6 A (CWC)	7.33Y	122.2	0.00	2.79	0.00	0	0	0	100	0.00	0.0	11.570	0.057	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42353	PL.42352	ABC	#1/0 ACSR	7.33Y	122.1	0.07	2.86	19.73	9	419	112	97	0.21	0.0	11.639	0.206	11	3	1	134
PL.42367	PL.42353	ABC	#1/0 ACSR	7.32Y	122.1	0.06	2.92	18.59	8	395	105	97	0.17	0.0	11.825	0.186	1	0	2	131
PL.42368	PL.42367	ABC	#1/0 ACSR	7.32Y	122.1	0.03	2.95	18.54	8	394	105	97	0.08	0.0	11.911	0.086	7	2	1	129
PL.42369	PL.42368	ABC	#1/0 ACSR	7.32Y	122.0	0.03	2.98	18.19	8	386	103	97	0.07	0.0	11.991	0.081	0	0	1	128
PL.42370	PL.42369	ABC	#1/0 ACSR	7.32Y	122.0	0.02	2.99	18.18	8	386	103	97	0.05	0.0	12.050	0.058	9	2	1	127
PL.42371	PL.42370	ABC	#1/0 ACSR	7.32Y	122.0	0.02	3.01	17.78	8	377	101	97	0.04	0.0	12.103	0.053	2	1	1	126
PL.42372	PL.42371	ABC	#1/0 ACSR	7.32Y	122.0	0.02	3.03	17.67	8	375	100	97	0.05	0.0	12.164	0.061	0	0	0	125
PL.42374	PL.42372	ABC	#1/0 ACSR	7.32Y	121.9	0.03	3.06	16.62	7	353	94	97	0.08	0.0	12.272	0.108	9	2	1	122
PL.66273	PL.42374	C	#1/0 ACSR	7.32Y	121.9	0.00	3.06	0.68	0	5	1	98	0.00	0.0	12.274	0.002	0	0	0	1
PD.10009	PL.66273	C	20T	7.32Y	121.9	0.00	3.06	0.68	0	5	1	98	0.00	0.0	12.274	0.002	0	0	0	1
PL.66274	PD.10009	C	#1/0 ACSR	7.32Y	121.9	0.00	3.06	0.68	0	5	1	98	0.00	0.0	12.344	0.070	5	1	1	1
PL.66270	PL.42374	ABC	#1/0 ACSR	7.32Y	121.9	0.00	3.06	15.98	7	339	90	97	0.00	0.0	12.272	0.000	0	0	0	120
PL.66271	PL.66270	ABC	#1/0 ACSR	7.32Y	121.9	0.01	3.07	15.98	7	339	90	97	0.03	0.0	12.315	0.043	12	3	1	120
PL.42380	PL.66271	ABC	#1/0 ACSR	7.31Y	121.9	0.02	3.09	14.80	6	314	84	97	0.04	0.0	12.386	0.071	9	2	1	111
PL.42381	PL.42380	C	6 A (CWC)	7.31Y	121.9	0.00	3.09	1.06	1	8	2	97	0.00	0.0	12.391	0.006	0	0	0	3
PD.6474	PL.42381	C	40QA	7.31Y	121.9	0.00	3.09	1.06	3	8	2	97	0.00	0.0	12.391	0.006	0	0	0	3
PL.61153	PD.6474	C	6 A (CWC)	7.31Y	121.9	0.00	3.09	1.06	1	8	2	97	0.00	0.0	12.405	0.014	6	2	1	3
PL.61154	PL.61153	C	6 A (CWC)	7.31Y	121.9	0.00	3.09	0.16	0	1	0	100	0.00	0.0	12.631	0.226	1	0	2	2
PL.42382	PL.61154	C	6 A (CWC)	7.31Y	121.9	0.00	3.09	0.00	0	0	0	100	0.00	0.0	12.684	0.053	0	0	0	0
PL.42383	PL.42382	C	6 A (CWC)	7.31Y	121.9	0.00	3.09	0.00	0	0	0	100	0.00	0.0	12.751	0.067	0	0	0	0
PL.41589	PL.42380	ABC	#1/0 ACSR	7.31Y	121.9	0.02	3.11	14.00	6	297	79	97	0.03	0.0	12.452	0.066	0	0	0	107
PL.41338	PL.41589	A	6 A (CWC)	7.31Y	121.9	0.00	3.11	1.72	1	12	3	97	0.00	0.0	12.458	0.006	0	0	0	2
PD.6475	PL.41338	A	40QA	7.31Y	121.9	0.00	3.11	1.72	4	12	3	97	0.00	0.0	12.458	0.006	0	0	0	2
PL.41339	PD.6475	A	6 A (CWC)	7.31Y	121.9	0.00	3.11	1.72	1	12	3	97	0.00	0.0	12.489	0.032	12	3	2	2
PL.56455	PL.41589	ABC	#1/0 ACSR	7.31Y	121.9	0.01	3.12	13.43	6	285	76	97	0.02	0.0	12.487	0.035	14	4	1	105
PL.57100	PL.56455	ABC	#1/0 ACSR	7.31Y	121.9	0.02	3.14	12.78	6	271	72	97	0.05	0.0	12.597	0.110	7	2	1	104
PL.57101	PL.57100	C	#4 ACSR	7.31Y	121.9	0.00	3.14	0.74	1	5	1	98	0.00	0.0	12.603	0.006	0	0	0	2
PD.8332	PL.57101	C	40QA	7.31Y	121.9	0.00	3.14	0.74	2	5	1	98	0.00	0.0	12.603	0.006	0	0	0	2
PL.57102	PD.8332	C	#4 ACSR	7.31Y	121.9	0.00	3.14	0.74	1	5	1	98	0.00	0.0	12.692	0.089	5	1	2	2
PL.61147	PL.57100	ABC	#1/0 ACSR	7.31Y	121.8	0.02	3.17	12.18	5	258	69	97	0.04	0.0	12.707	0.109	13	3	2	101
PL.61148	PL.61147	C	#4 ACSR	7.31Y	121.8	0.00	3.17	11.49	9	81	21	97	0.00	0.0	12.713	0.006	0	0	0	25

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.6476	PL.61148	C	40QA	7.31Y	121.8	0.00	3.17	11.49	29	81	21	97	0.00	0.0	12.713	0.006	0	0	0	25
PL.59385	PD.6476	C	#4 ACSR	7.31Y	121.8	0.04	3.21	11.49	9	81	21	97	0.02	0.0	12.788	0.075	6	2	2	25
PL.59386	PL.59385	C	#4 ACSR	7.31Y	121.8	0.03	3.24	10.68	8	75	20	97	0.02	0.0	12.854	0.065	4	1	1	23
PL.59388	PL.59386	C	#4 ACSR	7.31Y	121.8	0.00	3.24	0.38	0	3	1	95	0.00	0.0	12.907	0.053	3	1	1	1
PL.59387	PL.59386	C	#4 ACSR	7.31Y	121.8	0.01	3.25	9.74	7	69	18	97	0.01	0.0	12.883	0.029	0	0	2	21
PL.41602	PL.59387	C	#4 ACSR	7.30Y	121.7	0.02	3.26	9.70	7	69	18	97	0.01	0.0	12.919	0.036	0	0	1	19
PL.62244	PL.41602	C	#4 ACSR	7.30Y	121.7	0.03	3.29	7.80	6	55	15	96	0.01	0.0	13.011	0.092	7	2	3	13
PL.62245	PL.62244	C	#4 ACSR	7.30Y	121.7	0.00	3.30	1.29	1	9	2	98	0.00	0.0	13.079	0.068	1	0	1	3
PL.42215	PL.62245	C	#4 ACSR	7.30Y	121.7	0.00	3.30	1.21	1	9	2	98	0.00	0.0	13.126	0.047	8	2	1	2
PL.41588	PL.42215	C	#4 ACSR	7.30Y	121.7	0.00	3.30	0.00	0	0	0	100	0.00	0.0	13.169	0.043	0	0	0	0
PL.42216	PL.42215	C	#4 ACSR	7.30Y	121.7	0.00	3.30	0.12	0	1	0	100	0.00	0.0	13.171	0.045	1	0	1	1
PL.62246	PL.62244	C	#4 ACSR	7.30Y	121.7	0.01	3.30	5.46	4	39	10	97	0.00	0.0	13.053	0.042	0	0	0	7
PL.41388	PL.62246	C	#2 ACSR	7.30Y	121.7	0.01	3.31	3.76	2	27	7	97	0.00	0.0	13.200	0.147	27	7	2	2
PL.42217	PL.62246	C	#4 ACSR	7.30Y	121.7	0.00	3.31	1.71	1	12	3	97	0.00	0.0	13.089	0.036	1	0	1	5
PL.42356	PL.42217	C	#4 ACSR	7.30Y	121.7	0.00	3.31	1.63	1	12	3	97	0.00	0.0	13.111	0.021	0	0	0	4
PL.41782	PL.42356	C	#4 ACSR	7.30Y	121.7	0.00	3.31	1.09	1	8	2	97	0.00	0.0	13.140	0.029	8	2	1	1
PL.42357	PL.42356	C	#4 ACSR	7.30Y	121.7	0.00	3.31	0.54	0	4	1	97	0.00	0.0	13.165	0.055	0	0	0	3
PL.42358	PL.42357	C	#4 ACSR	7.30Y	121.7	0.00	3.31	0.54	0	4	1	97	0.00	0.0	13.217	0.051	4	1	2	3
PL.42359	PL.42358	C	#4 ACSR	7.30Y	121.7	0.00	3.31	0.00	0	0	0	100	0.00	0.0	13.254	0.038	0	0	1	1
PL.41576	PL.41602	C	#4 ACSR	7.30Y	121.7	0.00	3.27	1.73	1	12	3	97	0.00	0.0	12.955	0.037	12	3	2	2
PL.41603	PL.41602	C	#4 ACSR	7.30Y	121.7	0.00	3.26	0.16	0	1	0	100	0.00	0.0	12.924	0.006	0	0	0	3
PD.6588	PL.41603	C	25QA	7.30Y	121.7	0.00	3.26	0.16	1	1	0	100	0.00	0.0	12.924	0.006	0	0	0	3
PL.41604	PD.6588	C	#4 ACSR	7.30Y	121.7	0.00	3.26	0.16	0	1	0	100	0.00	0.0	12.956	0.032	1	0	3	3
PL.64088	PL.59385	C	#1/0 ACSR	7.31Y	121.8	0.00	3.21	0.00	0	0	0	100	0.00	0.0	12.822	0.033	0	0	0	0
PL.61151	PL.61147	C	6 A (CWC)	7.31Y	121.8	0.02	3.18	23.21	17	164	44	97	0.02	0.0	12.722	0.016	0	0	0	74
PD.9098	PL.61151	C	35L	7.31Y	121.8	0.00	3.18	23.21	66	164	44	97	0.00	0.0	12.722	0.016	0	0	0	74
PL.61152	PD.9098	C	6 A (CWC)	7.30Y	121.7	0.10	3.28	23.21	17	164	44	97	0.12	0.1	12.819	0.097	7	2	1	74
PL.61149	PL.61152	C	6 A (CWC)	7.29Y	121.6	0.14	3.43	22.20	16	157	42	97	0.17	0.1	12.961	0.142	0	0	0	73
PL.41281	PL.61149	C	6 A (CWC)	7.29Y	121.5	0.08	3.51	20.28	14	143	38	97	0.09	0.1	13.050	0.089	0	0	0	71
PL.42218	PL.41281	C	6 A (CWC)	7.27Y	121.1	0.37	3.88	18.65	13	131	35	97	0.37	0.3	13.483	0.433	0	0	0	69
PL.41800	PL.42218	C	6 A (CWC)	7.26Y	121.0	0.09	3.97	18.05	13	127	34	97	0.08	0.1	13.590	0.106	2	1	1	68

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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41801	PL.41800	C	6 A (CWC)	7.26Y	120.9	0.11	4.08	17.77	13	125	33	97	0.11	0.1	13.727	0.138	0	0	0	67
PL.41575	PL.41801	C	#4 ACSR	7.26Y	120.9	0.00	4.08	0.06	0	0	0	100	0.00	0.0	13.767	0.040	0	0	2	2
PL.42384	PL.41801	C	6 A (CWC)	7.25Y	120.9	0.07	4.15	17.71	13	124	33	97	0.07	0.1	13.817	0.089	0	0	0	65
PL.42385	PL.42384	C	6 A (CWC)	7.24Y	120.7	0.14	4.29	17.71	13	124	33	97	0.14	0.1	13.995	0.178	0	0	0	65
PL.41390	PL.42385	C	#4 ACSR	7.24Y	120.7	0.01	4.30	1.24	1	9	2	98	0.00	0.0	14.323	0.328	9	2	4	4
PL.42388	PL.42385	C	6 A (CWC)	7.22Y	120.3	0.46	4.75	16.47	12	115	31	97	0.40	0.3	14.604	0.609	0	0	1	61
PL.42389	PL.42388	C	6 A (CWC)	7.21Y	120.2	0.06	4.81	16.40	12	114	30	97	0.05	0.0	14.699	0.095	20	5	2	60
PL.61135	PL.42389	C	6 A (CWC)	7.21Y	120.1	0.07	4.88	13.48	10	94	25	97	0.05	0.0	14.805	0.106	1	0	1	58
PL.61138	PL.61135	C	6 A (CWC)	7.21Y	120.1	0.01	4.89	13.37	10	93	25	97	0.01	0.0	14.829	0.024	10	3	1	57
PL.61139	PL.61138	C	6 A (CWC)	7.21Y	120.1	0.02	4.91	12.00	9	84	22	97	0.01	0.0	14.864	0.034	1	0	1	56
PL.61136	PL.61139	C	6 A (CWC)	7.20Y	120.1	0.02	4.93	8.70	6	61	16	97	0.01	0.0	14.908	0.044	8	2	2	51
PL.42390	PL.61136	C	6 A (CWC)	7.20Y	120.0	0.05	4.98	7.49	5	52	14	97	0.02	0.0	15.051	0.143	0	0	0	49
PL.42391	PL.42390	C	6 A (CWC)	7.20Y	120.0	0.02	4.99	6.76	5	47	12	97	0.01	0.0	15.111	0.060	3	1	1	48
PL.41389	PL.42391	C	6 A (CWC)	7.20Y	120.0	0.02	5.02	6.32	5	44	12	96	0.01	0.0	15.196	0.085	0	0	1	47
PL.41774	PL.41389	C	6 A (CWC)	7.20Y	120.0	0.02	5.04	6.32	5	44	12	96	0.01	0.0	15.257	0.061	0	0	0	46
PL.42400	PL.41774	C	6 A (CWC)	7.20Y	119.9	0.01	5.05	4.46	3	31	8	97	0.00	0.0	15.342	0.085	12	3	3	44
PL.42401	PL.42400	C	6 A (CWC)	7.20Y	119.9	0.01	5.06	2.76	2	19	5	97	0.00	0.0	15.408	0.066	0	0	0	41
PL.42402	PL.42401	C	6 A (CWC)	7.20Y	119.9	0.01	5.07	2.76	2	19	5	97	0.00	0.0	15.468	0.060	0	0	0	41
PL.42405	PL.42402	C	6 A (CWC)	7.20Y	119.9	0.01	5.08	2.76	2	19	5	97	0.00	0.0	15.544	0.075	0	0	0	41
PL.54137	PL.42405	C	6 A (CWC)	7.19Y	119.9	0.01	5.09	2.76	2	19	5	97	0.00	0.0	15.657	0.113	0	0	0	41
PL.58554	PL.54137	C	6 A (CWC)	7.19Y	119.9	0.00	5.09	0.94	1	7	2	96	0.00	0.0	15.659	0.002	0	0	0	25
PD.8618	PL.58554	C	25T	7.19Y	119.9	0.00	5.09	0.94	0	7	2	96	0.00	0.0	15.659	0.002	0	0	0	25
PL.58555	PD.8618	C	6 A (CWC)	7.19Y	119.9	0.04	5.13	0.94	1	7	2	96	0.00	0.0	16.553	0.894	1	0	3	25
PL.54138	PL.58555	C	6 A (CWC)	7.19Y	119.9	0.00	5.13	0.83	1	6	2	95	0.00	0.0	16.588	0.035	1	0	3	22
PL.42411	PL.54138	C	6 A (CWC)	7.19Y	119.9	0.00	5.13	0.76	1	5	1	98	0.00	0.0	16.648	0.059	2	0	3	19
PL.41725	PL.42411	C	#4 ACSR	7.19Y	119.9	0.00	5.13	0.05	0	0	0	100	0.00	0.0	16.759	0.111	0	0	1	1
PL.42412	PL.42411	C	6 A (CWC)	7.19Y	119.9	0.00	5.13	0.47	0	3	1	95	0.00	0.0	16.682	0.034	1	0	3	15
PL.42413	PL.42412	C	6 A (CWC)	7.19Y	119.9	0.00	5.13	0.26	0	2	0	100	0.00	0.0	16.704	0.022	0	0	3	12
PL.42414	PL.42413	C	6 A (CWC)	7.19Y	119.9	0.00	5.13	0.26	0	2	0	100	0.00	0.0	16.742	0.038	1	0	2	9
PL.42415	PL.42414	C	6 A (CWC)	7.19Y	119.9	0.00	5.13	0.10	0	1	0	100	0.00	0.0	16.795	0.053	0	0	3	7
PL.42416	PL.42415	C	6 A (CWC)	7.19Y	119.9	0.00	5.13	0.06	0	0	0	100	0.00	0.0	16.842	0.047	0	0	1	4

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42417	PL.42416	C	6 A (CWC)	7.19Y	119.9	0.00	5.13	0.06	0	0	0	100	0.00	0.0	16.949	0.107	0	0	1	3
PL.42418	PL.42417	C	#2 ACSR	7.19Y	119.9	0.00	5.13	0.06	0	0	0	100	0.00	0.0	16.974	0.025	0	0	1	2
PL.58845	PL.42418	C	#2 ACSR	7.19Y	119.9	0.00	5.13	0.05	0	0	0	100	0.00	0.0	17.007	0.033	0	0	1	1
PL.58552	PL.54137	C	6 A (CWC)	7.19Y	119.9	0.00	5.09	1.82	1	13	3	97	0.00	0.0	15.660	0.003	0	0	0	16
PD.8617	PL.58552	C	25QA	7.19Y	119.9	0.00	5.09	1.82	7	13	3	97	0.00	0.0	15.660	0.003	0	0	0	16
PL.58553	PD.8617	C	6 A (CWC)	7.19Y	119.9	0.02	5.11	1.82	1	13	3	97	0.00	0.0	15.993	0.334	5	1	2	16
PL.58551	PL.58553	C	6 A (CWC)	7.19Y	119.9	0.00	5.11	0.02	0	0	0	100	0.00	0.0	16.110	0.117	0	0	2	5
PL.42409	PL.58551	C	6 A (CWC)	7.19Y	119.9	0.00	5.11	0.00	0	0	0	100	0.00	0.0	16.306	0.196	0	0	0	3
PL.42407	PL.42409	C	6 A (CWC)	7.19Y	119.9	0.00	5.11	0.00	0	0	0	100	0.00	0.0	16.348	0.042	0	0	0	0
PL.61155	PL.42407	C	#1/0 ACSR	7.19Y	119.9	0.00	5.11	0.00	0	0	0	100	0.00	0.0	16.377	0.028	0	0	0	0
PL.42408	PL.42407	C	6 A (CWC)	7.19Y	119.9	0.00	5.11	0.00	0	0	0	100	0.00	0.0	16.509	0.161	0	0	0	0
PL.42410	PL.42409	C	6 A (CWC)	7.19Y	119.9	0.00	5.11	0.00	0	0	0	100	0.00	0.0	16.345	0.039	0	0	3	3
PL.63838	PL.42410	C	6 A (CWC)	7.19Y	119.9	0.00	5.11	0.00	0	0	0	100	0.00	0.0	16.384	0.039	0	0	0	0
PL.58550	PL.58553	C	6 A (CWC)	7.19Y	119.9	0.01	5.12	1.04	1	7	2	96	0.00	0.0	16.251	0.258	2	1	1	9
PL.41551	PL.58550	C	6 A (CWC)	7.19Y	119.9	0.00	5.12	0.65	0	5	1	98	0.00	0.0	16.315	0.064	5	1	4	4
PL.42406	PL.58550	C	6 A (CWC)	7.19Y	119.9	0.00	5.12	0.10	0	1	0	100	0.00	0.0	16.344	0.092	0	0	1	4
PL.56928	PL.42406	C	6 A (CWC)	7.19Y	119.9	0.00	5.12	0.10	0	1	0	100	0.00	0.0	16.423	0.079	1	0	1	3
PL.56929	PL.56928	C	6 A (CWC)	7.19Y	119.9	0.00	5.12	0.02	0	0	0	100	0.00	0.0	16.492	0.069	0	0	2	2
PL.42403	PL.42402	C	#4 ACSR	7.20Y	119.9	0.00	5.07	0.00	0	0	0	100	0.00	0.0	15.533	0.064	0	0	0	0
PL.42404	PL.42403	C	#4 ACSR	7.20Y	119.9	0.00	5.07	0.00	0	0	0	100	0.00	0.0	15.574	0.041	0	0	0	0
PL.41607	PL.42401	C	6 A (CWC)	7.20Y	119.9	0.00	5.06	0.00	0	0	0	100	0.00	0.0	15.520	0.112	0	0	0	0
PL.41775	PL.41774	C	6 A (CWC)	7.20Y	120.0	0.01	5.05	1.86	1	13	3	97	0.00	0.0	15.354	0.097	0	0	0	2
PL.41043	PL.41775	C	#4 ACSR	7.20Y	120.0	0.00	5.05	1.04	1	7	2	96	0.00	0.0	15.399	0.045	7	2	1	1
PL.41829	PL.41775	C	6 A (CWC)	7.20Y	120.0	0.00	5.05	0.82	1	6	2	95	0.00	0.0	15.412	0.058	0	0	0	1
PL.42396	PL.41829	C	6 A (CWC)	7.20Y	120.0	0.00	5.05	0.82	1	6	2	95	0.00	0.0	15.433	0.021	0	0	0	1
PL.42397	PL.42396	C	6 A (CWC)	7.20Y	119.9	0.00	5.05	0.82	1	6	2	95	0.00	0.0	15.493	0.060	0	0	0	1
PL.42398	PL.42397	C	6 A (CWC)	7.20Y	119.9	0.00	5.05	0.82	1	6	2	95	0.00	0.0	15.527	0.034	0	0	0	1
PL.42399	PL.42398	C	6 A (CWC)	7.20Y	119.9	0.00	5.05	0.82	1	6	2	95	0.00	0.0	15.560	0.034	6	2	1	1
PL.42386	PL.41829	C	#4 ACSR	7.20Y	120.0	0.00	5.05	0.00	0	0	0	100	0.00	0.0	15.457	0.045	0	0	0	0
PL.42387	PL.42386	C	#4 ACSR	7.20Y	120.0	0.00	5.05	0.00	0	0	0	100	0.00	0.0	15.502	0.045	0	0	0	0
PL.41350	PL.42390	C	#4 ACSR	7.20Y	120.0	0.00	4.98	0.73	1	5	1	98	0.00	0.0	15.114	0.063	5	1	1	1

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.61137	PL.61139	C	6 A (CWC)	7.20Y	120.1	0.01	4.92	3.17	2	22	6	96	0.00	0.0	14.972	0.108	13	3	2	4
PL.42392	PL.61137	C	6 A (CWC)	7.20Y	120.1	0.00	4.92	1.38	1	10	3	96	0.00	0.0	14.986	0.014	0	0	0	2
PL.41312	PL.42392	C	#4 ACSR	7.20Y	120.1	0.00	4.92	0.00	0	0	0	100	0.00	0.0	15.148	0.163	0	0	0	0
PL.42393	PL.42392	C	6 A (CWC)	7.20Y	120.1	0.00	4.93	1.38	1	10	3	96	0.00	0.0	15.062	0.076	0	0	0	2
PL.42394	PL.42393	C	6 A (CWC)	7.20Y	120.1	0.00	4.93	1.38	1	10	3	96	0.00	0.0	15.130	0.068	9	2	1	2
PL.42395	PL.42394	C	6 A (CWC)	7.20Y	120.1	0.00	4.93	0.02	0	0	0	100	0.00	0.0	15.278	0.148	0	0	1	1
PL.41798	PL.42218	C	#4 ACSR	7.27Y	121.1	0.00	3.88	0.60	0	4	1	97	0.00	0.0	13.521	0.038	4	1	1	1
PL.41799	PL.41798	C	#4 ACSR	7.27Y	121.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	13.593	0.072	0	0	0	0
PL.41282	PL.41281	C	#4 ACSR	7.29Y	121.5	0.00	3.51	1.64	1	12	3	97	0.00	0.0	13.107	0.057	7	2	1	2
PL.41283	PL.41282	C	#4 ACSR	7.29Y	121.5	0.00	3.51	0.69	1	5	1	98	0.00	0.0	13.138	0.032	0	0	0	1
PL.41284	PL.41283	C	#4 ACSR	7.29Y	121.5	0.00	3.52	0.69	1	5	1	98	0.00	0.0	13.286	0.148	0	0	0	1
PL.41285	PL.41284	C	#4 ACSR	7.29Y	121.5	0.00	3.52	0.69	1	5	1	98	0.00	0.0	13.371	0.085	5	1	1	1
PL.41730	PL.61149	C	6 A (CWC)	7.29Y	121.6	0.00	3.43	1.91	1	13	4	96	0.00	0.0	12.999	0.038	0	0	0	2
PL.41731	PL.41730	C	6 A (CWC)	7.29Y	121.6	0.00	3.43	0.00	0	0	0	100	0.00	0.0	13.052	0.053	0	0	1	1
PL.41279	PL.41730	C	#4 ACSR	7.29Y	121.6	0.00	3.43	1.91	1	13	4	96	0.00	0.0	13.039	0.039	13	4	1	1
PL.61150	PL.61152	C	#4 ACSR	7.30Y	121.7	0.00	3.28	0.00	0	0	0	100	0.00	0.0	12.852	0.033	0	0	0	0
PL.42376	PL.66271	A	6 A (CWC)	7.32Y	121.9	0.00	3.07	1.78	1	13	3	97	0.00	0.0	12.320	0.006	0	0	0	8
PD.6734	PL.42376	A	40QA	7.32Y	121.9	0.00	3.07	1.78	4	13	3	97	0.00	0.0	12.320	0.006	0	0	0	8
PL.42377	PD.6734	A	6 A (CWC)	7.32Y	121.9	0.01	3.08	1.78	1	13	3	97	0.00	0.0	12.403	0.082	4	1	3	8
PL.42378	PL.42377	A	6 A (CWC)	7.32Y	121.9	0.00	3.08	1.28	1	9	2	98	0.00	0.0	12.433	0.030	9	2	5	5
PL.42379	PL.42378	A	6 A (CWC)	7.32Y	121.9	0.00	3.08	0.00	0	0	0	100	0.00	0.0	12.474	0.041	0	0	0	0
PL.42373	PL.42372	C	#4 ACSR	7.32Y	122.0	0.00	3.03	3.14	2	22	6	96	0.00	0.0	12.169	0.006	0	0	0	3
PD.6414	PL.42373	C	40QA	7.32Y	122.0	0.00	3.03	3.14	8	22	6	96	0.00	0.0	12.169	0.006	0	0	0	3
PL.59348	PD.6414	C	#4 ACSR	7.32Y	122.0	0.01	3.04	3.14	2	22	6	96	0.00	0.0	12.286	0.116	18	5	1	3
PL.59349	PL.59348	C	#4 ACSR	7.32Y	122.0	0.00	3.04	0.56	0	4	1	97	0.00	0.0	12.328	0.043	4	1	2	2
PL.42363	PL.42353	C	6 A (CWC)	7.33Y	122.1	0.00	2.86	1.89	1	13	4	96	0.00	0.0	11.645	0.006	0	0	0	2
PD.6470	PL.42363	C	40QA	7.33Y	122.1	0.00	2.86	1.89	5	13	4	96	0.00	0.0	11.645	0.006	0	0	0	2
PL.42364	PD.6470	C	6 A (CWC)	7.33Y	122.1	0.01	2.87	1.89	1	13	4	96	0.00	0.0	11.731	0.087	0	0	0	2
PL.42365	PL.42364	C	6 A (CWC)	7.33Y	122.1	0.00	2.87	1.89	1	13	4	96	0.00	0.0	11.748	0.017	2	1	1	2
PL.42366	PL.42365	C	6 A (CWC)	7.33Y	122.1	0.00	2.87	1.54	1	11	3	96	0.00	0.0	11.838	0.090	11	3	1	1
PL.42360	PL.42352	C	#4 ACSR	7.33Y	122.2	0.00	2.79	0.89	1	6	2	95	0.00	0.0	11.439	0.006	0	0	0	2

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.6489	PL.42360	C	40QA	7.33Y	122.2	0.00	2.79	0.89	2	6	2	95	0.00	0.0	11.439	0.006	0	0	0	2
PL.42361	PD.6489	C	#4 ACSR	7.33Y	122.2	0.00	2.79	0.89	1	6	2	95	0.00	0.0	11.526	0.087	3	1	1	2
PL.42362	PL.42361	C	#4 ACSR	7.33Y	122.2	0.00	2.79	0.48	0	3	1	95	0.00	0.0	11.631	0.104	3	1	1	1
PL.42342	PL.42341	C	6 A (CWC)	7.34Y	122.3	0.00	2.68	2.18	2	16	4	97	0.00	0.0	11.153	0.006	0	0	0	2
PD.6735	PL.42342	C	40QA	7.34Y	122.3	0.00	2.68	2.18	5	16	4	97	0.00	0.0	11.153	0.006	0	0	0	2
PL.42343	PD.6735	C	6 A (CWC)	7.34Y	122.3	0.01	2.69	2.18	2	16	4	97	0.00	0.0	11.219	0.066	5	1	1	2
PL.42344	PL.42343	C	6 A (CWC)	7.34Y	122.3	0.00	2.69	1.51	1	11	3	96	0.00	0.0	11.305	0.085	11	3	1	1
PL.61169	PL.42340	B	#1/0 ACSR	7.34Y	122.4	0.00	2.64	0.02	0	0	0	100	0.00	0.0	11.074	0.032	0	0	1	1
PL.41422	PL.41421	A	6 A (CWC)	7.35Y	122.6	0.01	2.45	56.22	40	386	148	93	0.04	0.0	10.619	0.006	0	0	0	20
PD.6623	PL.41422	A	100CodeSMo	7.35Y	122.6	0.00	2.45	56.22	0	386	148	93	0.00	0.0	10.619	0.006	0	0	0	20
PL.41423	PD.6623	A	6 A (CWC)	7.35Y	122.4	0.12	2.57	56.22	40	386	148	93	0.36	0.1	10.666	0.047	1	0	1	20
PL.56535	PL.41423	A	#2 ACSR	7.35Y	122.4	0.00	2.58	1.20	1	9	2	98	0.00	0.0	10.739	0.073	0	0	0	3
PL.56536	PL.56535	A	#2 ACSR	7.35Y	122.4	0.00	2.58	1.20	1	9	2	98	0.00	0.0	10.779	0.040	2	0	1	3
PL.56534	PL.56536	A	#2 ACSR	7.35Y	122.4	0.00	2.58	0.96	1	7	2	96	0.00	0.0	10.820	0.042	3	1	1	2
PL.41424	PL.56534	A	#2 ACSR	7.35Y	122.4	0.00	2.58	0.55	0	4	1	97	0.00	0.0	10.870	0.050	4	1	1	1
PL.62039	PL.41423	A	#1/0 ACSR	7.35Y	122.4	0.00	2.57	0.05	0	0	0	100	0.00	0.0	10.689	0.023	0	0	1	1
PL.41425	PL.41423	A	6 A (CWC)	7.33Y	122.2	0.22	2.79	54.87	39	376	145	93	0.61	0.2	10.751	0.085	5	1	1	15
PL.41426	PL.41425	A	6 A (CWC)	7.32Y	122.0	0.17	2.96	54.22	39	371	143	93	0.46	0.1	10.817	0.067	16	4	1	14
PL.41427	PL.41426	A	6 A (CWC)	7.31Y	121.8	0.25	3.21	51.18	37	349	137	93	0.66	0.2	10.924	0.106	8	2	1	12
PL.41691	PL.41427	A	#4 ACSR	7.31Y	121.8	0.01	3.21	1.60	1	11	3	96	0.00	0.0	11.004	0.080	0	0	0	1
PL.57892	PL.41691	A	#1/0 ACSR	7.31Y	121.8	0.00	3.22	1.60	1	11	3	96	0.00	0.0	11.053	0.050	11	3	1	1
PL.41428	PL.41427	A	6 A (CWC)	7.30Y	121.6	0.14	3.35	48.48	35	329	132	93	0.36	0.1	10.986	0.063	0	0	0	10
PL.41507	PL.41428	A	#4 ACSR	7.28Y	121.4	0.26	3.62	47.53	37	322	130	93	0.66	0.2	11.108	0.122	0	0	0	7
PL.59670	PL.41507	A	#4 ACSR	7.24Y	120.6	0.79	4.40	47.17	36	318	129	93	1.94	0.6	11.477	0.369	4	1	1	6
PL.59669	PL.59670	A	#4 ACSR	7.23Y	120.5	0.11	4.52	46.57	36	312	127	93	0.28	0.1	11.530	0.053	0	0	0	5
PL.59671	PL.59669	A	2 AL URD	7.23Y	120.5	0.00	4.52	46.57	27	312	127	93	0.01	0.0	11.532	0.003	0	0	0	5
PL.63488	PL.59671	A	2 AL URD	7.20Y	120.0	0.50	5.02	46.57	27	312	127	93	0.89	0.3	11.945	0.413	198	96	0	5
PL.63487	PL.63488	A	1/0 AL URD	7.18Y	119.7	0.28	5.30	14.94	9	104	27	97	0.24	0.2	12.544	0.599	0	0	0	3
PL.42233	PL.63487	A	1/0 AL URD	7.18Y	119.7	0.00	5.30	0.49	0	3	1	95	0.00	0.0	12.616	0.072	3	1	1	1
PL.42134	PL.63487	A	1/0 AL URD	7.18Y	119.7	0.01	5.31	14.45	9	100	26	97	0.01	0.0	12.566	0.022	0	0	0	2
PL.42135	PL.42134	A	1/0 AL URD	7.18Y	119.7	0.01	5.32	14.45	9	100	26	97	0.01	0.0	12.585	0.019	0	0	0	2

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Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42234	PL.42135	A	1/0 AL URD	7.18Y	119.7	0.00	5.32	4.81	3	33	9	96	0.00	0.0	12.612	0.027	33	9	1	1
PL.42136	PL.42135	A	1/0 AL URD	7.18Y	119.7	0.03	5.35	9.64	6	67	18	97	0.01	0.0	12.778	0.194	67	18	1	1
PL.63490	PL.63488	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	1.30	1	9	2	98	0.00	0.0	12.003	0.058	9	2	2	2
PL.63491	PL.63490	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.150	0.147	0	0	0	0
PD.9522	PL.63491	A	100CodeSMo	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.150	0.147	0	0	0	0
PL.63489	PD.9522	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.360	0.210	0	0	0	0
PD.9455	PL.63489	A	100CodeSMo	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.360	0.210	0	0	0	0
PL.63023	PD.9455	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.448	0.087	0	0	0	0
PL.63024	PL.63023	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.539	0.092	0	0	0	0
PD.9456	PL.63024	A	100CodeSMo	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.539	0.092	0	0	0	0
PL.63025	PD.9456	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.654	0.114	0	0	0	0
PL.64222	PL.63025	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.714	0.061	0	0	0	0
PL.63029	PD.9455	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.444	0.084	0	0	0	0
PL.63030	PL.63029	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.480	0.036	0	0	0	0
PD.9457	PL.63030	A	100CodeSMo	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.480	0.036	0	0	0	0
PL.63031	PD.9457	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.535	0.055	0	0	0	0
PL.63032	PL.63031	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.579	0.044	0	0	0	0
PL.63033	PL.63032	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.668	0.089	0	0	0	0
PL.63034	PL.63033	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.763	0.095	0	0	0	0
PL.63941	PL.63034	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.827	0.063	0	0	0	0
PL.63942	PL.63941	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.878	0.052	0	0	0	0
PL.63022	PL.63034	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.787	0.024	0	0	0	0
PD.9458	PL.63022	A	100CodeSMo	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.787	0.024	0	0	0	0
PL.62732	PD.9458	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.889	0.102	0	0	0	0
PL.63936	PL.62732	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.949	0.060	0	0	0	0
PL.63937	PL.62732	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.944	0.054	0	0	0	0
PL.63938	PL.63937	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.985	0.041	0	0	0	0
PL.63939	PD.9458	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.827	0.040	0	0	0	0
PL.63940	PL.63939	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.873	0.046	0	0	0	0
PL.63026	PD.9455	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.388	0.028	0	0	0	0
PL.63027	PL.63026	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.442	0.054	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.63028	PL.63027	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.513	0.071	0	0	0	0
PL.64220	PL.63028	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.585	0.072	0	0	0	0
PL.64221	PL.64220	A	1/0 AL URD	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	12.662	0.077	0	0	0	0
PL.41557	PL.41507	A	#4 ACSR	7.28Y	121.4	0.00	3.62	0.37	0	3	1	95	0.00	0.0	11.277	0.168	3	1	1	1
PL.41429	PL.41428	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.90	1	6	2	95	0.00	0.0	11.028	0.041	6	2	1	1
PL.41430	PL.41429	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.00	0	0	0	100	0.00	0.0	11.047	0.020	0	0	0	0
PL.41506	PL.41430	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.00	0	0	0	100	0.00	0.0	11.215	0.167	0	0	0	0
PL.57557	PL.41428	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.05	0	0	0	100	0.00	0.0	11.109	0.123	0	0	0	2
PL.57559	PL.57557	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.05	0	0	0	100	0.00	0.0	11.161	0.052	0	0	0	2
PL.59273	PL.57559	A	#1/0 ACSR	7.30Y	121.6	0.00	3.35	0.05	0	0	0	100	0.00	0.0	11.208	0.047	0	0	2	2
PL.57558	PL.57557	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.00	0	0	0	100	0.00	0.0	11.216	0.107	0	0	0	0
PL.41552	PL.57558	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.00	0	0	0	100	0.00	0.0	11.421	0.205	0	0	0	0
PL.41508	PL.57558	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.00	0	0	0	100	0.00	0.0	11.280	0.064	0	0	0	0
PL.41456	PL.41426	A	6 A (CWC)	7.32Y	122.0	0.00	2.96	0.74	1	5	1	98	0.00	0.0	10.910	0.093	5	1	1	1
PL.62233	PL.42006	A	6 A (CWC)	7.36Y	122.7	0.00	2.31	1.56	1	11	3	96	0.00	0.0	10.531	0.061	11	3	2	2
PL.42137	PL.41402	A	#4 ACSR	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	10.287	0.006	0	0	0	0
PD.6802	PL.42137	A	35L	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	10.287	0.006	0	0	0	0
PL.42138	PD.6802	A	#4 ACSR	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	12.404	2.118	0	0	0	0
PL.42139	PL.42138	A	#4 ACSR	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	12.537	0.133	0	0	0	0
PL.42140	PL.42139	A	#4 ACSR	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	12.844	0.306	0	0	0	0
PL.41755	PL.42140	A	#4 ACSR	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	12.875	0.031	0	0	0	0
PL.42141	PL.42140	A	#4 ACSR	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	12.896	0.052	0	0	0	0
PL.42142	PL.42141	A	#4 ACSR	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	12.983	0.087	0	0	0	0
PL.41307	PL.42139	A	#4 ACSR	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	12.628	0.090	0	0	0	0
PL.41904	PL.41402	B	6 A (CWC)	7.37Y	122.9	0.00	2.14	2.34	2	17	4	97	0.00	0.0	10.287	0.006	0	0	0	5
PD.6589	PL.41904	B	50QA	7.37Y	122.9	0.00	2.14	2.34	5	17	4	97	0.00	0.0	10.287	0.006	0	0	0	5
PL.41905	PD.6589	B	6 A (CWC)	7.37Y	122.9	0.00	2.15	2.34	2	17	4	97	0.00	0.0	10.303	0.016	0	0	0	5
PL.56538	PL.41905	B	6 A (CWC)	7.37Y	122.8	0.00	2.15	2.34	2	17	4	97	0.00	0.0	10.348	0.045	0	0	0	5
PL.56539	PL.56538	B	6 A (CWC)	7.37Y	122.8	0.02	2.17	2.34	2	17	4	97	0.00	0.0	10.497	0.150	0	0	0	5
PL.41906	PL.56539	B	6 A (CWC)	7.37Y	122.8	0.00	2.17	0.71	1	5	1	98	0.00	0.0	10.600	0.103	2	1	1	2
PL.41907	PL.41906	B	6 A (CWC)	7.37Y	122.8	0.00	2.17	0.42	0	3	1	95	0.00	0.0	10.699	0.100	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41908	PL.41907	B	6 A (CWC)	7.37Y	122.8	0.00	2.17	0.42	0	3	1	95	0.00	0.0	10.800	0.100	3	1	1	1
PL.41909	PL.56539	B	6 A (CWC)	7.37Y	122.8	0.01	2.18	1.63	1	12	3	97	0.00	0.0	10.608	0.111	0	0	0	3
PL.41910	PL.41909	B	6 A (CWC)	7.37Y	122.8	0.00	2.18	0.95	1	7	2	96	0.00	0.0	10.719	0.111	7	2	2	2
PL.41911	PL.41910	B	6 A (CWC)	7.37Y	122.8	0.00	2.18	0.00	0	0	0	100	0.00	0.0	11.032	0.314	0	0	0	0
PL.41912	PL.41911	B	6 A (CWC)	7.37Y	122.8	0.00	2.18	0.00	0	0	0	100	0.00	0.0	11.061	0.028	0	0	0	0
PL.41684	PL.41909	B	#4 ACSR	7.37Y	122.8	0.00	2.18	0.68	1	5	1	98	0.00	0.0	10.688	0.080	5	1	1	1
PL.56537	PL.56538	B	#4 ACSR	7.37Y	122.8	0.00	2.15	0.00	0	0	0	100	0.00	0.0	10.463	0.115	0	0	0	0
PL.41734	PL.61158	ABC	#3/0 ACSR	7.36Y	122.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	8.341	0.060	0	0	0	0
PL.41526	PL.61158	B	6 A (CWC)	7.36Y	122.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	8.639	0.358	0	0	0	0
PL.41527	PL.41526	B	6 A (CWC)	7.36Y	122.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	8.706	0.067	0	0	0	0
PL.41703	PL.41527	B	6 A (CWC)	7.36Y	122.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	8.744	0.039	0	0	0	0
PL.41528	PL.41527	B	6 A (CWC)	7.36Y	122.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	9.089	0.384	0	0	0	0
PL.62807	PL.62806	B	6 A (CWC)	7.46Y	124.3	0.00	0.67	5.07	4	37	10	97	0.00	0.0	5.809	0.006	0	0	0	6
PD.6694	PL.62807	B	50QA	7.46Y	124.3	0.00	0.67	5.07	10	37	10	97	0.00	0.0	5.809	0.006	0	0	0	6
PL.42326	PD.6694	B	6 A (CWC)	7.46Y	124.3	0.04	0.71	5.07	4	37	10	97	0.01	0.0	6.009	0.200	2	1	1	6
PL.42327	PL.42326	B	6 A (CWC)	7.46Y	124.3	0.00	0.72	3.63	3	26	7	97	0.00	0.0	6.036	0.027	0	0	0	4
PL.42131	PL.42327	B	#4 ACSR	7.46Y	124.3	0.00	0.72	0.39	0	3	1	95	0.00	0.0	6.075	0.039	0	0	0	1
PL.42132	PL.42131	B	#4 ACSR	7.46Y	124.3	0.00	0.72	0.39	0	3	1	95	0.00	0.0	6.142	0.067	3	1	1	1
PL.42133	PL.42327	B	6 A (CWC)	7.46Y	124.3	0.01	0.73	3.25	2	23	6	97	0.00	0.0	6.091	0.055	0	0	0	3
PL.41357	PL.42133	B	#4 ACSR	7.46Y	124.3	0.00	0.73	0.00	0	0	0	100	0.00	0.0	6.152	0.062	0	0	0	0
PL.64677	PL.42133	B	6 A (CWC)	7.46Y	124.3	0.02	0.74	3.25	2	23	6	97	0.00	0.0	6.210	0.119	0	0	0	3
PL.64678	PL.64677	B	#1/0 ACSR	7.46Y	124.3	0.00	0.75	3.25	1	23	6	97	0.00	0.0	6.249	0.039	14	4	1	3
PL.64679	PL.64678	B	#1/0 ACSR	7.46Y	124.3	0.00	0.75	1.36	1	10	3	96	0.00	0.0	6.288	0.039	0	0	0	2
PL.64680	PL.64679	B	#1/0 ACSR	7.46Y	124.3	0.00	0.75	1.36	1	10	3	96	0.00	0.0	6.309	0.021	0	0	0	2
PL.64316	PL.64680	B	#4 ACSR	7.46Y	124.3	0.00	0.75	0.53	0	4	1	97	0.00	0.0	6.407	0.098	4	1	1	1
PL.64317	PL.64316	B	#4 ACSR	7.46Y	124.3	0.00	0.75	0.00	0	0	0	100	0.00	0.0	6.495	0.087	0	0	0	0
PL.62028	PL.64680	B	#1/0 ACSR	7.46Y	124.3	0.00	0.75	0.83	0	6	2	95	0.00	0.0	6.311	0.002	0	0	0	1
PD.9307	PL.62028	B	10T	7.46Y	124.3	0.00	0.75	0.83	0	6	2	95	0.00	0.0	6.311	0.002	0	0	0	1
PL.62029	PD.9307	B	#1/0 ACSR	7.46Y	124.3	0.00	0.75	0.83	0	6	2	95	0.00	0.0	6.375	0.064	6	2	1	1
PL.41496	PL.42326	B	6 A (CWC)	7.46Y	124.3	0.00	0.72	1.10	1	8	2	97	0.00	0.0	6.053	0.045	8	2	1	1
PL.41315	PL.62013	C	6 A (CWC)	7.47Y	124.5	0.09	0.51	20.01	14	145	39	97	0.10	0.1	5.550	0.100	3	1	1	15

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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41558	PL.41315	C	6 A (CWC)	7.47Y	124.5	0.04	0.55	19.58	14	141	38	97	0.04	0.0	5.594	0.044	0	0	0	14
PL.41559	PL.41558	C	6 A (CWC)	7.46Y	124.3	0.12	0.67	19.58	14	141	38	97	0.13	0.1	5.732	0.138	0	0	0	14
PL.41405	PL.41559	C	6 A (CWC)	7.46Y	124.3	0.01	0.68	19.58	14	141	38	97	0.01	0.0	5.738	0.006	0	0	0	14
PD.6801	PL.41405	C	50L	7.46Y	124.3	0.00	0.68	19.58	39	141	38	97	0.00	0.0	5.738	0.006	0	0	0	14
PL.41406	PD.6801	C	6 A (CWC)	7.44Y	123.9	0.38	1.06	19.58	14	141	38	97	0.37	0.3	6.218	0.480	32	9	2	14
PL.41407	PL.41406	C	6 A (CWC)	7.43Y	123.9	0.05	1.11	15.07	11	108	29	97	0.04	0.0	6.291	0.073	0	0	0	12
PL.41408	PL.41407	C	6 A (CWC)	7.43Y	123.9	0.00	1.11	11.04	8	79	21	97	0.00	0.0	6.297	0.006	0	0	0	7
PD.6462	PL.41408	C	40QA	7.43Y	123.9	0.00	1.11	11.04	28	79	21	97	0.00	0.0	6.297	0.006	0	0	0	7
PL.41409	PD.6462	C	6 A (CWC)	7.43Y	123.9	0.04	1.15	11.04	8	79	21	97	0.02	0.0	6.374	0.077	9	2	1	7
PL.41411	PL.41409	C	6 A (CWC)	7.40Y	123.4	0.49	1.63	9.79	7	70	19	97	0.24	0.3	7.561	1.187	11	3	1	6
PL.41412	PL.41411	C	6 A (CWC)	7.40Y	123.4	0.01	1.64	8.28	6	59	16	97	0.00	0.0	7.583	0.023	0	0	0	5
PL.42318	PL.41412	C	6 A (CWC)	7.40Y	123.3	0.02	1.66	4.60	3	33	9	96	0.00	0.0	7.671	0.087	0	0	0	2
PL.41042	PL.42318	C	#4 ACSR	7.40Y	123.3	0.00	1.66	1.93	1	14	4	96	0.00	0.0	7.735	0.064	14	4	1	1
PL.42319	PL.42318	C	6 A (CWC)	7.40Y	123.3	0.01	1.67	2.67	2	19	5	97	0.00	0.0	7.785	0.115	19	5	1	1
PL.41032	PL.41412	C	6 A (CWC)	7.40Y	123.3	0.02	1.67	3.68	3	26	7	97	0.00	0.0	7.763	0.180	9	2	2	3
PL.54760	PL.41032	C	6 A (CWC)	7.40Y	123.3	0.00	1.67	2.41	2	17	5	96	0.00	0.0	7.808	0.045	0	0	0	1
PL.54761	PL.54760	C	6 A (CWC)	7.40Y	123.3	0.00	1.67	2.41	2	17	5	96	0.00	0.0	7.840	0.031	17	5	1	1
PL.54046	PL.54761	C	6 A (CWC)	7.40Y	123.3	0.00	1.67	0.00	0	0	0	100	0.00	0.0	7.877	0.038	0	0	0	0
PL.41410	PL.41407	C	6 A (CWC)	7.43Y	123.9	0.01	1.12	4.04	3	29	8	96	0.00	0.0	6.343	0.052	0	0	0	5
PL.42320	PL.41410	C	6 A (CWC)	7.43Y	123.8	0.05	1.17	4.04	3	29	8	96	0.01	0.0	6.659	0.317	7	2	1	5
PL.42321	PL.42320	C	6 A (CWC)	7.43Y	123.8	0.01	1.18	3.12	2	22	6	96	0.00	0.0	6.718	0.058	0	0	0	4
PL.41860	PL.42321	C	#2 ACSR	7.43Y	123.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	6.803	0.085	0	0	0	0
PL.42322	PL.42321	C	6 A (CWC)	7.43Y	123.8	0.01	1.18	3.12	2	22	6	96	0.00	0.0	6.758	0.041	0	0	0	4
PL.42323	PL.42322	C	6 A (CWC)	7.43Y	123.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	6.880	0.122	0	0	0	0
PL.42324	PL.42322	C	6 A (CWC)	7.43Y	123.8	0.03	1.21	3.12	2	22	6	96	0.00	0.0	7.023	0.265	14	4	2	4
PL.42325	PL.42324	C	6 A (CWC)	7.43Y	123.8	0.00	1.21	1.21	1	9	2	98	0.00	0.0	7.078	0.055	9	2	2	2
PL.41663	PL.41558	C	#4 ACSR	7.47Y	124.5	0.00	0.55	0.00	0	0	0	100	0.00	0.0	5.697	0.103	0	0	0	0
PL.62014	PL.62019	C	#4 ACSR	7.48Y	124.6	0.00	0.35	0.23	0	2	0	100	0.00	0.0	5.372	0.006	0	0	0	1
PD.6486	PL.62014	C	50QA	7.48Y	124.6	0.00	0.35	0.23	0	2	0	100	0.00	0.0	5.372	0.006	0	0	0	1
PL.42185	PD.6486	C	#4 ACSR	7.48Y	124.6	0.00	0.35	0.23	0	2	0	100	0.00	0.0	5.419	0.047	2	0	1	1
PL.62015	PL.62019	A	#1/0 ACSR	7.48Y	124.6	0.00	0.35	0.00	0	0	0	100	0.00	0.0	5.372	0.006	0	0	0	0

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.6487	PL.62015	A	50QA	7.48Y	124.6	0.00	0.35	0.00	0	0	0	100	0.00	0.0	5.372	0.006	0	0	0	0
PL.42186	PD.6487	A	#1/0 ACSR	7.48Y	124.6	0.00	0.35	0.00	0	0	0	100	0.00	0.0	5.447	0.075	0	0	0	0
PL.62016	PL.62019	B	#4 ACSR	7.48Y	124.6	0.01	0.36	2.97	2	21	6	96	0.00	0.0	5.436	0.070	0	0	0	3
PL.42187	PL.62016	B	#4 ACSR	7.48Y	124.6	0.02	0.38	2.12	2	15	4	97	0.00	0.0	5.606	0.170	0	0	0	2
PL.42188	PL.42187	B	#4 ACSR	7.48Y	124.6	0.01	0.38	2.12	2	15	4	97	0.00	0.0	5.662	0.056	0	0	0	2
PL.42189	PL.42188	B	#4 ACSR	7.48Y	124.6	0.00	0.39	2.12	2	15	4	97	0.00	0.0	5.721	0.060	15	4	2	2
PL.41356	PL.42187	B	#4 ACSR	7.48Y	124.6	0.00	0.38	0.00	0	0	0	100	0.00	0.0	5.754	0.148	0	0	0	0
PL.41865	PL.62016	B	#4 ACSR	7.48Y	124.6	0.00	0.36	0.84	1	6	2	95	0.00	0.0	5.484	0.049	6	2	1	1
PL.62012	PL.62017	A	#4 ACSR	7.48Y	124.7	0.00	0.28	0.00	0	0	0	100	0.00	0.0	5.334	0.051	0	0	0	0
PL.42181	PL.62231	A	6 A (CWC)	7.50Y	125.0	0.00	0.03	0.89	1	6	2	95	0.00	0.0	4.998	0.028	3	1	1	2
PL.41744	PL.42181	A	#4 ACSR	7.50Y	125.0	0.00	0.03	0.00	0	0	0	100	0.00	0.0	5.091	0.093	0	0	0	0
PL.42182	PL.42181	A	6 A (CWC)	7.50Y	125.0	0.00	0.03	0.50	0	4	1	97	0.00	0.0	5.046	0.048	4	1	1	1
PL.62232	REG60	C	#1/0 ACSR	7.51Y	125.2	0.00	-0.24	0.73	0	5	1	98	0.00	0.0	4.697	0.046	5	1	1	1
PL.54054	PL.54053	B	#1/0 ACSR	7.11Y	118.5	0.00	6.47	2.11	1	15	4	97	0.00	0.0	4.305	0.016	0	0	0	2
PD.8121	PL.54054	B	40QA	7.11Y	118.5	0.00	6.47	2.11	5	15	4	97	0.00	0.0	4.305	0.016	0	0	0	2
PL.54055	PD.8121	B	#1/0 ACSR	7.11Y	118.5	0.00	6.47	2.11	1	15	4	97	0.00	0.0	4.307	0.002	15	4	2	2
PL.59383	PL.41482	C	#1/0 ACSR	7.12Y	118.6	0.00	6.39	0.00	0	0	0	100	0.00	0.0	4.253	0.044	0	0	0	0
PL.41370	PL.41369	C	#4 ACSR	7.13Y	118.8	0.00	6.24	7.31	6	50	13	97	0.00	0.0	4.056	0.006	0	0	0	3
PD.6458	PL.41370	C	50QA	7.13Y	118.8	0.00	6.24	7.31	15	50	13	97	0.00	0.0	4.056	0.006	0	0	0	3
PL.41372	PD.6458	C	#4 ACSR	7.12Y	118.7	0.02	6.26	7.31	6	50	13	97	0.01	0.0	4.123	0.067	0	0	0	3
PL.41373	PL.41372	C	#4 ACSR	7.12Y	118.7	0.03	6.29	7.31	6	50	13	97	0.01	0.0	4.215	0.092	13	3	1	3
PL.41374	PL.41373	C	#4 ACSR	7.12Y	118.7	0.01	6.29	5.47	4	38	10	97	0.00	0.0	4.239	0.025	12	3	1	2
PL.41375	PL.41374	C	#4 ACSR	7.12Y	118.7	0.01	6.30	3.72	3	26	7	97	0.00	0.0	4.319	0.079	26	7	1	1
PL.53055	PL.41819	ABC	336 MCM AC	7.13Y	118.9	0.01	6.09	68.58	13	1415	389	96	0.07	0.0	3.911	0.018	0	0	0	169
PD.7988-A	PL.53055	ABC	Closed	7.13Y	118.9	0.00	6.09	68.58	0	1415	388	96	0.00	0.0	3.911	0.018	0	0	0	169
PD.7988-B	PD.7988-A	ABC	Closed	7.13Y	118.9	0.00	6.09	68.58	0	1415	388	96	0.00	0.0	3.911	0.018	0	0	0	169
PL.53054	PD.7988-B	ABC	336 MCM AC	7.13Y	118.9	0.03	6.13	68.58	13	1415	388	96	0.27	0.0	3.979	0.067	0	0	0	169
PL.41449	PL.53054	A	#1/0 ACSR	7.13Y	118.9	0.00	6.13	1.03	0	7	2	96	0.00	0.0	3.984	0.006	0	0	0	1
PD.6406	PL.41449	A	40QA	7.13Y	118.9	0.00	6.13	1.03	3	7	2	96	0.00	0.0	3.984	0.006	0	0	0	1
PL.41450	PD.6406	A	#1/0 ACSR	7.13Y	118.9	0.00	6.13	1.03	0	7	2	96	0.00	0.0	4.027	0.043	7	2	1	1
PL.57751	PL.53054	ABC	336 MCM AC	7.13Y	118.8	0.08	6.21	68.23	13	1408	386	96	0.60	0.0	4.134	0.155	15	7	2	168

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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.57752	PL.57751	ABC	336 MCM AC	7.13Y	118.8	0.03	6.23	67.49	13	1393	378	97	0.21	0.0	4.189	0.055	0	0	0	166
PL.42419	PL.57752	ABC	336 MCM AC	7.12Y	118.7	0.02	6.25	67.49	13	1393	377	97	0.13	0.0	4.224	0.035	0	0	0	166
PL.42420	PL.42419	A	#1/0 ACSR	7.12Y	118.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	4.229	0.006	0	0	0	0
PD.6604	PL.42420	A	40QA	7.12Y	118.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	4.229	0.006	0	0	0	0
PL.42421	PD.6604	A	#1/0 ACSR	7.12Y	118.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	4.323	0.094	0	0	0	0
PL.42422	PL.42421	A	#1/0 ACSR	7.12Y	118.7	0.00	6.25	0.00	0	0	0	100	0.00	0.0	4.690	0.367	0	0	0	0
PL.64309	PL.42419	ABC	336 MCM AC	7.12Y	118.7	0.02	6.27	67.49	13	1393	377	97	0.18	0.0	4.270	0.046	6	2	2	166
PL.64312	PL.64309	ABC	336 MCM AC	7.12Y	118.7	0.08	6.35	67.21	13	1387	375	97	0.59	0.0	4.424	0.154	0	0	0	164
PL.66268	PL.64312	C	#1/0 ACSR	7.12Y	118.7	0.00	6.35	0.00	0	0	0	100	0.00	0.0	4.445	0.021	0	0	0	0
PL.66269	PL.66268	C	#1/0 ACSR	7.12Y	118.7	0.00	6.35	0.00	0	0	0	100	0.00	0.0	4.445	0.000	0	0	0	0
PL.64311	PL.64312	ABC	336 MCM AC	7.12Y	118.6	0.02	6.37	67.21	13	1386	374	97	0.16	0.0	4.466	0.043	0	0	0	164
PL.64310	PL.64311	ABC	336 MCM AC	7.12Y	118.6	0.01	6.38	67.21	13	1386	373	97	0.07	0.0	4.486	0.019	4	1	2	164
PL.42423	PL.64310	ABC	336 MCM AC	7.11Y	118.6	0.05	6.43	67.02	13	1382	372	97	0.36	0.0	4.580	0.094	4	1	1	162
PL.42424	PL.42423	ABC	#1/0 ACSR	7.11Y	118.6	0.00	6.43	9.42	4	194	51	97	0.00	0.0	4.586	0.006	0	0	0	26
PD.6570	PL.42424	ABC	20QA	7.11Y	118.6	0.00	6.43	9.42	47	194	51	97	0.00	0.0	4.586	0.006	0	0	0	26
PL.42425	PD.6570	ABC	#1/0 ACSR	7.11Y	118.6	0.01	6.43	9.42	4	194	51	97	0.01	0.0	4.627	0.041	23	6	4	26
PL.42429	PL.42425	A	#2 ACSR	7.11Y	118.6	0.01	6.44	3.12	2	21	6	96	0.00	0.0	4.693	0.066	0	0	0	2
PL.41742	PL.42429	A	#2 ACSR	7.11Y	118.6	0.00	6.44	1.78	1	12	3	97	0.00	0.0	4.712	0.019	12	3	1	1
PL.64089	PL.42429	A	#2 ACSR	7.11Y	118.6	0.00	6.44	1.34	1	9	2	98	0.00	0.0	4.736	0.044	0	0	0	1
PL.64090	PL.64089	A	#2 ACSR	7.11Y	118.6	0.00	6.44	1.34	1	9	2	98	0.00	0.0	4.736	0.000	9	2	1	1
PL.42430	PL.42425	ABC	#1/0 ACSR	7.11Y	118.6	0.01	6.44	7.26	3	150	40	97	0.01	0.0	4.689	0.063	10	3	1	20
PL.66123	PL.42430	ABC	#1/0 ACSR	7.11Y	118.6	0.00	6.44	6.77	3	140	37	97	0.00	0.0	4.689	0.000	0	0	0	19
PL.66124	PL.66123	ABC	#1/0 ACSR	7.11Y	118.6	0.00	6.45	6.77	3	140	37	97	0.00	0.0	4.733	0.044	27	7	1	19
PL.61162	PL.66124	ABC	#1/0 ACSR	7.11Y	118.5	0.01	6.45	5.46	2	113	30	97	0.01	0.0	4.805	0.071	0	0	0	18
PL.42431	PL.61162	A	#2 ACSR	7.11Y	118.5	0.00	6.45	1.55	1	11	3	96	0.00	0.0	4.810	0.006	0	0	0	1
PD.6571	PL.42431	A	40QA	7.11Y	118.5	0.00	6.45	1.55	4	11	3	96	0.00	0.0	4.810	0.006	0	0	0	1
PL.42432	PD.6571	A	#2 ACSR	7.11Y	118.5	0.00	6.45	1.55	1	11	3	96	0.00	0.0	4.824	0.013	11	3	1	1
PL.42433	PL.61162	ABC	#1/0 ACSR	7.11Y	118.5	0.00	6.46	4.95	2	102	27	97	0.00	0.0	4.848	0.044	5	1	1	17
PL.42434	PL.42433	ABC	#1/0 ACSR	7.11Y	118.5	0.01	6.46	4.69	2	97	26	97	0.00	0.0	4.929	0.081	8	2	1	16
PL.58689	PL.42434	ABC	#1/0 ACSR	7.11Y	118.5	0.01	6.47	4.32	2	89	24	97	0.00	0.0	5.005	0.077	0	0	0	15
PL.58688	PL.58689	A	#4 ACSR	7.11Y	118.5	0.00	6.47	0.00	0	0	0	100	0.00	0.0	5.059	0.053	0	0	1	1

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.58690	PL.58689	A	6 A (CWC)	7.11Y	118.5	0.01	6.48	0.57	0	4	1	97	0.00	0.0	5.234	0.228	0	0	0	2
PL.42436	PL.58690	A	#4 ACSR	7.11Y	118.5	0.00	6.48	0.00	0	0	0	100	0.00	0.0	5.263	0.030	0	0	0	0
PL.42437	PL.42436	A	#4 ACSR	7.11Y	118.5	0.00	6.48	0.00	0	0	0	100	0.00	0.0	5.304	0.041	0	0	0	0
PL.42435	PL.58690	A	6 A (CWC)	7.11Y	118.5	0.00	6.48	0.57	0	4	1	97	0.00	0.0	5.300	0.066	4	1	2	2
PL.58691	PL.58689	A	6 A (CWC)	7.11Y	118.5	0.00	6.47	12.38	9	85	23	97	0.00	0.0	5.009	0.004	0	0	0	12
PD.8641	PL.58691	A	30T	7.11Y	118.5	0.00	6.47	12.38	0	85	23	97	0.00	0.0	5.009	0.004	0	0	0	12
PL.58692	PD.8641	A	6 A (CWC)	7.11Y	118.5	0.03	6.50	12.38	9	85	23	97	0.02	0.0	5.056	0.047	0	0	0	12
PL.41714	PL.58692	A	6 A (CWC)	7.11Y	118.5	0.03	6.53	12.38	9	85	23	97	0.02	0.0	5.113	0.056	0	0	1	12
PL.41890	PL.41714	A	#4 ACSR	7.11Y	118.5	0.00	6.53	0.00	0	0	0	100	0.00	0.0	5.143	0.030	0	0	0	0
PL.41343	PL.41714	A	6 A (CWC)	7.10Y	118.4	0.07	6.60	12.02	9	83	22	97	0.05	0.1	5.246	0.133	0	0	0	10
PL.56052	PL.41343	A	6 A (CWC)	7.10Y	118.4	0.04	6.64	12.02	9	83	22	97	0.03	0.0	5.323	0.077	5	1	1	10
PL.56057	PL.56052	A	6 A (CWC)	7.10Y	118.3	0.07	6.72	9.32	7	64	17	97	0.03	0.1	5.528	0.205	21	6	2	7
PL.56058	PL.56057	A	6 A (CWC)	7.10Y	118.3	0.01	6.73	6.23	4	43	11	97	0.00	0.0	5.563	0.035	0	0	0	5
PL.41678	PL.56058	A	6 A (CWC)	7.10Y	118.3	0.00	6.73	0.76	1	5	1	98	0.00	0.0	5.601	0.038	5	1	1	1
PL.60845	PL.56058	A	6 A (CWC)	7.10Y	118.3	0.02	6.74	5.46	4	37	10	97	0.00	0.0	5.628	0.065	0	0	0	4
PL.60846	PL.60845	A	6 A (CWC)	7.09Y	118.2	0.02	6.76	4.09	3	28	7	97	0.00	0.0	5.740	0.111	0	0	0	3
PL.62247	PL.60846	A	6 A (CWC)	7.09Y	118.2	0.01	6.77	4.09	3	28	7	97	0.00	0.0	5.785	0.045	18	5	2	3
PL.62248	PL.62247	A	6 A (CWC)	7.09Y	118.2	0.00	6.77	1.43	1	10	3	96	0.00	0.0	5.866	0.081	10	3	1	1
PL.60847	PL.60845	A	#1/0 ACSR	7.10Y	118.3	0.00	6.74	1.38	1	9	2	98	0.00	0.0	5.685	0.057	9	2	1	1
PL.56053	PL.56052	A	6 A (CWC)	7.10Y	118.4	0.00	6.64	0.00	0	0	0	100	0.00	0.0	5.357	0.034	0	0	0	0
PL.56054	PL.56052	A	#4 ACSR	7.10Y	118.4	0.00	6.65	2.00	2	14	4	96	0.00	0.0	5.384	0.062	7	2	1	2
PL.56055	PL.56054	A	#4 ACSR	7.10Y	118.4	0.00	6.65	0.00	0	0	0	100	0.00	0.0	5.427	0.042	0	0	0	0
PL.56056	PL.56054	A	#1/0 ACSR	7.10Y	118.4	0.00	6.65	0.91	0	6	2	95	0.00	0.0	5.398	0.013	6	2	1	1
PL.41715	PL.41714	A	#2 ACSR	7.11Y	118.5	0.00	6.53	0.34	0	2	1	89	0.00	0.0	5.145	0.033	0	0	0	1
PL.41342	PL.41715	A	#2 ACSR	7.11Y	118.5	0.00	6.53	0.34	0	2	1	89	0.00	0.0	5.233	0.087	2	1	1	1
PL.41011	PL.58692	A	#4 ACSR	7.11Y	118.5	0.00	6.50	0.00	0	0	0	100	0.00	0.0	5.234	0.177	0	0	0	0
PL.42031	PL.42430	C	#2 ACSR	7.11Y	118.6	0.00	6.44	0.00	0	0	0	100	0.00	0.0	4.750	0.061	0	0	0	0
PL.63467	PL.42423	A	#2 ACSR	7.11Y	118.6	0.00	6.43	2.15	1	15	4	97	0.00	0.0	4.628	0.048	3	1	1	2
PL.63468	PL.63467	A	#2 ACSR	7.11Y	118.6	0.00	6.43	1.70	1	12	3	97	0.00	0.0	4.668	0.041	12	3	1	1
PL.42426	PL.42423	A	#4 ACSR	7.11Y	118.6	0.00	6.43	2.50	2	17	5	96	0.00	0.0	4.586	0.006	0	0	0	2
PD.6759	PL.42426	A	60QA	7.11Y	118.6	0.00	6.43	2.50	4	17	5	96	0.00	0.0	4.586	0.006	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: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42427	PD.6759	A	#4 ACSR	7.11Y	118.6	0.00	6.43	2.50	2	17	5	96	0.00	0.0	4.605	0.020	7	2	1	2
PL.42428	PL.42427	A	#4 ACSR	7.11Y	118.6	0.00	6.43	1.43	1	10	3	96	0.00	0.0	4.631	0.026	10	3	1	1
PL.42438	PL.42423	ABC	336 MCM AC	7.11Y	118.5	0.03	6.46	55.88	11	1152	310	97	0.19	0.0	4.652	0.072	4	1	2	131
PL.42439	PL.42438	ABC	336 MCM AC	7.11Y	118.5	0.02	6.48	55.71	11	1148	309	97	0.13	0.0	4.700	0.048	0	0	0	129
PL.42440	PL.42439	A	#2 ACSR	7.11Y	118.5	0.00	6.48	1.22	1	8	2	97	0.00	0.0	4.706	0.006	0	0	0	1
PD.6572	PL.42440	A	25T	7.11Y	118.5	0.00	6.48	1.22	0	8	2	97	0.00	0.0	4.706	0.006	0	0	0	1
PL.42515	PD.6572	A	#2 ACSR	7.11Y	118.5	0.00	6.48	1.22	1	8	2	97	0.00	0.0	4.744	0.038	8	2	1	1
PL.42516	PL.42439	ABC	336 MCM AC	7.11Y	118.5	0.07	6.55	55.30	11	1139	306	97	0.44	0.0	4.874	0.174	23	6	2	128
PL.42519	PL.42516	ABC	336 MCM AC	7.11Y	118.4	0.02	6.56	53.71	10	1106	297	97	0.10	0.0	4.916	0.042	0	0	0	125
PL.41622	PL.42519	ABC	336 MCM AC	7.11Y	118.4	0.01	6.57	53.40	10	1100	295	97	0.07	0.0	4.946	0.031	17	4	3	124
PL.59306	PL.41622	ABC	336 MCM AC	7.10Y	118.4	0.02	6.60	51.70	10	1065	285	97	0.15	0.0	5.012	0.066	25	7	3	119
PL.59308	PL.59306	C	#2 ACSR	7.10Y	118.4	0.00	6.60	3.59	2	25	7	96	0.00	0.0	5.016	0.004	0	0	0	3
PD.8758	PL.59308	C	40QA	7.10Y	118.4	0.00	6.60	3.59	9	25	7	96	0.00	0.0	5.016	0.004	0	0	0	3
PL.59305	PD.8758	C	#2 ACSR	7.10Y	118.4	0.00	6.60	3.59	2	25	7	96	0.00	0.0	5.044	0.028	25	7	3	3
PL.59307	PL.59306	ABC	336 MCM AC	7.10Y	118.4	0.02	6.62	49.30	9	1015	272	97	0.10	0.0	5.062	0.049	0	0	0	113
PL.41626	PL.59307	ABC	336 MCM AC	7.10Y	118.4	0.03	6.65	49.30	9	1015	272	97	0.17	0.0	5.146	0.084	0	0	0	113
PL.42521	PL.41626	ABC	336 MCM AC	7.10Y	118.3	0.02	6.67	49.30	9	1015	271	97	0.13	0.0	5.210	0.064	3	1	1	113
PL.42522	PL.42521	A	#2 ACSR	7.10Y	118.3	0.00	6.67	1.20	1	8	2	97	0.00	0.0	5.216	0.006	0	0	0	3
PD.6574	PL.42522	A	40QA	7.10Y	118.3	0.00	6.67	1.20	3	8	2	97	0.00	0.0	5.216	0.006	0	0	0	3
PL.54066	PD.6574	A	#2 ACSR	7.10Y	118.3	0.00	6.67	1.20	1	8	2	97	0.00	0.0	5.253	0.037	1	0	1	3
PL.54067	PL.54066	A	#1/0 ACSR	7.10Y	118.3	0.00	6.67	0.37	0	3	1	95	0.00	0.0	5.308	0.055	3	1	1	1
PL.54068	PL.54066	A	#1/0 ACSR	7.10Y	118.3	0.00	6.67	0.75	0	5	1	98	0.00	0.0	5.268	0.016	5	1	1	1
PL.41539	PL.42521	A	#2 ACSR	7.10Y	118.3	0.00	6.67	1.15	1	8	2	97	0.00	0.0	5.261	0.051	8	2	1	1
PL.42523	PL.42521	ABC	336 MCM AC	7.10Y	118.3	0.02	6.69	48.36	9	995	266	97	0.13	0.0	5.277	0.066	0	0	0	108
PL.42524	PL.42523	C	#2 ACSR	7.10Y	118.3	0.00	6.70	4.53	3	31	8	97	0.00	0.0	5.282	0.006	0	0	0	2
PD.6761	PL.42524	C	40QA	7.10Y	118.3	0.00	6.70	4.53	11	31	8	97	0.00	0.0	5.282	0.006	0	0	0	2
PL.42525	PD.6761	C	#2 ACSR	7.10Y	118.3	0.02	6.71	4.53	3	31	8	97	0.00	0.0	5.415	0.133	12	3	1	2
PL.42526	PL.42525	C	#2 ACSR	7.10Y	118.3	0.00	6.71	2.79	2	19	5	97	0.00	0.0	5.515	0.100	19	5	1	1
PL.42527	PL.42523	ABC	336 MCM AC	7.10Y	118.3	0.02	6.71	46.85	9	964	257	97	0.08	0.0	5.320	0.044	0	0	0	106
PL.42528	PL.42527	A	#2 ACSR	7.10Y	118.3	0.00	6.71	0.00	0	0	0	100	0.00	0.0	5.326	0.006	0	0	0	0
PD.6605	PL.42528	A	40QA	7.10Y	118.3	0.00	6.71	0.00	0	0	0	100	0.00	0.0	5.326	0.006	0	0	0	0

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42529	PD.6605	A	#2 ACSR	7.10Y	118.3	0.00	6.71	0.00	0	0	0	100	0.00	0.0	5.354	0.028	0	0	0	0
PL.42530	PL.42527	ABC	336 MCM AC	7.09Y	118.2	0.08	6.79	46.85	9	964	257	97	0.46	0.0	5.568	0.247	0	0	0	106
PL.54049	PL.42530	ABC	336 MCM AC	7.09Y	118.2	0.02	6.81	46.71	9	960	255	97	0.09	0.0	5.616	0.049	11	3	1	105
PL.54050	PL.54049	ABC	336 MCM AC	7.09Y	118.2	0.03	6.84	46.15	9	949	252	97	0.13	0.0	5.694	0.077	38	10	4	104
PL.54047	PL.54050	ABC	336 MCM AC	7.09Y	118.1	0.02	6.85	44.32	9	911	242	97	0.09	0.0	5.750	0.056	12	3	1	100
PL.54048	PL.54047	ABC	336 MCM AC	7.09Y	118.1	0.01	6.86	43.72	8	899	238	97	0.05	0.0	5.781	0.031	0	0	0	99
PL.41807	PL.54048	ABC	336 MCM AC	7.09Y	118.1	0.02	6.88	42.66	8	877	233	97	0.08	0.0	5.831	0.050	10	3	1	97
REG61	PL.41807	ABC	76.2 KVA	7.51Y	125.2	-7.04	-0.16	42.16	42	867	230	97	percent Boost= 5.62			Tap= 9.0				96
PL.41806	REG61	ABC	336 MCM AC	7.51Y	125.1	0.01	-0.15	39.79	8	867	230	97	0.06	0.0	5.879	0.048	0	0	0	96
PL.41808	PL.41806	B	6 A (CWC)	7.51Y	125.1	0.01	-0.13	50.69	36	368	97	97	0.04	0.0	5.885	0.006	0	0	0	29
PD.6117	PL.41808	B	75QA	7.51Y	125.1	0.00	-0.13	50.69	68	368	97	97	0.00	0.0	5.885	0.006	0	0	0	29
PL.54059	PD.6117	B	6 A (CWC)	7.50Y	125.1	0.06	-0.07	50.69	36	368	97	97	0.17	0.0	5.913	0.028	0	0	0	29
PL.59130	PL.54059	B	#4 ACSR	7.50Y	125.1	0.00	-0.07	3.31	3	24	6	97	0.00	0.0	5.932	0.019	24	6	2	2
PL.54060	PL.54059	B	6 A (CWC)	7.50Y	125.1	0.01	-0.06	41.37	30	300	80	97	0.01	0.0	5.916	0.003	0	0	0	26
PD.8122	PL.54060	B	60QA	7.50Y	125.1	0.00	-0.06	41.37	69	300	80	97	0.00	0.0	5.916	0.003	0	0	0	26
PL.64682	PD.8122	B	6 A (CWC)	7.50Y	125.0	0.04	-0.02	41.37	30	300	80	97	0.08	0.0	5.938	0.022	48	13	4	26
PL.64683	PL.64682	B	6 A (CWC)	7.50Y	125.0	0.05	0.03	30.38	22	220	58	97	0.08	0.0	5.975	0.038	0	0	0	20
PL.64545	PL.64683	B	6 A (CWC)	7.50Y	124.9	0.04	0.07	30.38	22	220	58	97	0.07	0.0	6.005	0.029	3	1	1	20
PL.54016	PL.64545	B	6 A (CWC)	7.49Y	124.8	0.11	0.18	29.91	21	217	57	97	0.17	0.1	6.093	0.088	27	7	3	19
PL.53155	PL.54016	B	6 A (CWC)	7.48Y	124.7	0.12	0.30	26.15	19	189	50	97	0.17	0.1	6.202	0.110	17	4	1	16
PL.53157	PL.53155	B	6 A (CWC)	7.48Y	124.6	0.09	0.40	23.82	17	172	46	97	0.11	0.1	6.289	0.087	14	4	1	15
PL.53160	PL.53157	B	6 A (CWC)	7.48Y	124.6	0.02	0.42	12.24	9	88	23	97	0.01	0.0	6.326	0.036	0	0	0	8
PL.53161	PL.53160	B	6 A (CWC)	7.47Y	124.5	0.05	0.47	11.09	8	80	21	97	0.03	0.0	6.428	0.102	3	1	1	7
PL.53158	PL.53161	B	6 A (CWC)	7.47Y	124.5	0.01	0.47	10.61	8	77	20	97	0.00	0.0	6.446	0.018	13	3	1	6
PL.53159	PL.53158	B	6 A (CWC)	7.47Y	124.5	0.03	0.51	8.82	6	64	17	97	0.01	0.0	6.523	0.077	0	0	0	5
PL.41319	PL.53159	B	#1/0 ACSR	7.47Y	124.5	0.00	0.51	0.00	0	0	0	100	0.00	0.0	6.600	0.077	0	0	0	0
PL.53028	PL.53159	B	#1/0 ACSR	7.47Y	124.5	0.00	0.51	4.54	2	33	9	96	0.00	0.0	6.564	0.041	15	4	1	2
PL.53156	PL.53028	B	#1/0 ACSR	7.47Y	124.5	0.00	0.51	2.50	1	18	5	96	0.00	0.0	6.597	0.033	18	5	1	1
PL.54056	PL.53159	B	6 A (CWC)	7.47Y	124.5	0.01	0.51	4.28	3	31	8	97	0.00	0.0	6.570	0.047	14	4	1	3
PL.54057	PL.54056	B	6 A (CWC)	7.47Y	124.5	0.00	0.52	2.30	2	17	4	97	0.00	0.0	6.653	0.083	17	4	2	2
PL.53154	PL.53160	B	6 A (CWC)	7.47Y	124.6	0.00	0.42	1.15	1	8	2	97	0.00	0.0	6.347	0.021	8	2	1	1

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.53025	PL.53157	B	#4 ACSR	7.48Y	124.6	0.00	0.40	1.19	1	9	2	98	0.00	0.0	6.329	0.039	9	2	1	1
PL.53026	PL.53157	B	6 A (CWC)	7.47Y	124.6	0.03	0.42	8.49	6	61	16	97	0.01	0.0	6.357	0.068	0	0	1	5
PL.53027	PL.53026	B	6 A (CWC)	7.47Y	124.6	0.02	0.45	8.43	6	61	16	97	0.01	0.0	6.418	0.061	0	0	0	4
PL.62040	PL.53027	B	6 A (CWC)	7.47Y	124.5	0.00	0.45	8.19	6	59	16	97	0.00	0.0	6.439	0.021	45	12	2	3
PL.62041	PL.62040	B	6 A (CWC)	7.47Y	124.5	0.00	0.45	1.99	1	14	4	96	0.00	0.0	6.490	0.051	14	4	1	1
PL.60844	PL.53027	B	6 A (CWC)	7.47Y	124.6	0.00	0.45	0.25	0	2	0	100	0.00	0.0	6.515	0.097	2	0	1	1
PL.64681	PL.64682	B	#4 ACSR	7.50Y	125.0	0.00	-0.02	4.39	3	32	8	97	0.00	0.0	5.967	0.030	32	8	1	2
PL.54014	PL.64681	B	#4 ACSR	7.50Y	125.0	0.00	-0.02	0.02	0	0	0	100	0.00	0.0	5.985	0.017	0	0	0	1
PL.54015	PL.54014	B	#4 ACSR	7.50Y	125.0	0.00	-0.02	0.02	0	0	0	100	0.00	0.0	6.015	0.031	0	0	1	1
PL.54058	PL.54059	B	#4 ACSR	7.50Y	125.1	0.00	-0.07	6.01	5	44	12	96	0.00	0.0	5.934	0.022	44	12	1	1
PL.57494	PL.41806	C	6 A (CWC)	7.51Y	125.1	0.01	-0.14	41.84	30	304	81	97	0.01	0.0	5.883	0.003	0	0	0	43
PD.8502	PL.57494	C	40T	7.51Y	125.1	0.00	-0.14	41.84	0	304	81	97	0.00	0.0	5.883	0.003	0	0	0	43
PL.57495	PD.8502	C	6 A (CWC)	7.50Y	125.0	0.10	-0.04	41.84	30	304	81	97	0.22	0.1	5.940	0.057	42	11	5	43
PL.57493	PL.57495	C	6 A (CWC)	7.50Y	124.9	0.09	0.05	36.04	26	261	69	97	0.17	0.1	5.995	0.055	9	2	4	38
PL.54061	PL.57493	C	6 A (CWC)	7.49Y	124.8	0.12	0.17	27.93	20	202	54	97	0.17	0.1	6.088	0.094	10	3	1	27
PL.41560	PL.54061	C	6 A (CWC)	7.48Y	124.7	0.10	0.26	26.58	19	192	51	97	0.13	0.1	6.168	0.079	3	1	1	26
PL.41854	PL.41560	C	#4 ACSR	7.48Y	124.7	0.00	0.27	2.03	2	15	4	97	0.00	0.0	6.251	0.084	15	4	1	1
PL.41673	PL.41560	C	6 A (CWC)	7.48Y	124.7	0.08	0.34	22.73	16	164	44	97	0.09	0.1	6.243	0.075	0	0	0	23
PL.41387	PL.41673	C	#4 ACSR	7.48Y	124.7	0.00	0.34	1.28	1	9	2	98	0.00	0.0	6.312	0.070	9	2	1	1
PL.41674	PL.41673	C	6 A (CWC)	7.48Y	124.6	0.04	0.38	21.45	15	155	41	97	0.04	0.0	6.282	0.039	4	1	1	22
PL.41610	PL.41674	C	6 A (CWC)	7.47Y	124.6	0.06	0.44	20.90	15	151	40	97	0.07	0.0	6.349	0.067	13	3	3	21
PL.41611	PL.41610	C	6 A (CWC)	7.47Y	124.5	0.07	0.51	17.83	13	129	34	97	0.07	0.1	6.438	0.089	9	2	2	17
PL.41612	PL.41611	C	6 A (CWC)	7.47Y	124.5	0.03	0.54	14.35	10	104	27	97	0.02	0.0	6.482	0.044	9	2	2	14
PL.41613	PL.41612	C	6 A (CWC)	7.47Y	124.4	0.03	0.57	10.90	8	79	21	97	0.02	0.0	6.543	0.061	3	1	1	10
PL.72989	PL.41613	C	6 A (CWC)	7.46Y	124.4	0.04	0.60	9.07	6	65	17	97	0.02	0.0	6.631	0.088	0	0	0	8
PD.11217	PL.72989	C	20T	7.46Y	124.4	0.00	0.60	9.07	0	65	17	97	0.00	0.0	6.631	0.088	0	0	0	8
PL.72990	PD.11217	C	6 A (CWC)	7.46Y	124.4	0.01	0.61	9.07	6	65	17	97	0.01	0.0	6.661	0.029	11	3	1	8
PL.41617	PL.72990	C	6 A (CWC)	7.46Y	124.4	0.01	0.62	7.57	5	55	14	97	0.00	0.0	6.690	0.029	0	0	0	7
PL.41571	PL.41617	C	#4 ACSR	7.46Y	124.4	0.00	0.62	0.00	0	0	0	100	0.00	0.0	6.750	0.060	0	0	0	0
PL.41618	PL.41617	C	6 A (CWC)	7.46Y	124.3	0.05	0.67	7.57	5	55	14	97	0.02	0.0	6.827	0.137	0	0	0	7
PL.41606	PL.41618	C	6 A (CWC)	7.46Y	124.3	0.01	0.68	1.59	1	11	3	96	0.00	0.0	6.975	0.148	11	3	2	2

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.41619	PL.41618	C	6 A (CWC)	7.46Y	124.3	0.01	0.69	5.02	4	36	10	96	0.00	0.0	6.901	0.074	9	2	1	4
PL.41620	PL.41619	C	6 A (CWC)	7.46Y	124.3	0.03	0.71	3.74	3	27	7	97	0.00	0.0	7.099	0.197	9	3	1	3
PL.59366	PL.41620	C	#1/0 ACSR	7.46Y	124.3	0.00	0.71	1.30	1	9	2	98	0.00	0.0	7.141	0.043	9	2	1	1
PL.41621	PL.41620	C	6 A (CWC)	7.46Y	124.3	0.00	0.72	1.13	1	8	2	97	0.00	0.0	7.207	0.109	8	2	1	1
PL.63533	PL.41618	C	#1/0 ACSR	7.46Y	124.3	0.00	0.67	0.96	0	7	2	96	0.00	0.0	6.893	0.066	7	2	1	1
PL.41614	PL.41613	C	6 A (CWC)	7.47Y	124.4	0.00	0.57	1.44	1	10	3	96	0.00	0.0	6.584	0.040	10	3	1	1
PL.41615	PL.41614	C	6 A (CWC)	7.47Y	124.4	0.00	0.57	0.00	0	0	0	100	0.00	0.0	6.642	0.058	0	0	0	0
PL.72485	PL.41612	C	#2 ACSR	7.47Y	124.5	0.00	0.54	2.17	1	16	4	97	0.00	0.0	6.496	0.014	8	2	1	2
PL.72486	PL.72485	C	#2 ACSR	7.47Y	124.5	0.00	0.54	1.04	1	8	2	97	0.00	0.0	6.526	0.030	8	2	1	1
PL.41364	PL.41611	C	#4 ACSR	7.47Y	124.5	0.00	0.51	2.29	2	17	4	97	0.00	0.0	6.513	0.075	17	4	1	1
PL.41856	PL.41610	C	#2 ACSR	7.47Y	124.6	0.00	0.44	1.34	1	10	3	96	0.00	0.0	6.399	0.050	10	3	1	1
PL.41546	PL.41674	C	#2 ACSR	7.48Y	124.6	0.00	0.38	0.00	0	0	0	100	0.00	0.0	6.313	0.030	0	0	0	0
PL.41333	PL.41560	C	#4 ACSR	7.48Y	124.7	0.00	0.26	1.37	1	10	3	96	0.00	0.0	6.251	0.083	10	3	1	1
PL.54071	PL.57493	C	#4 ACSR	7.49Y	124.9	0.05	0.10	6.82	5	49	13	97	0.02	0.0	6.153	0.159	0	0	0	7
PL.54073	PL.54071	C	#1/0 ACSR	7.49Y	124.9	0.00	0.10	1.39	1	10	3	96	0.00	0.0	6.210	0.057	10	3	1	1
PL.54072	PL.54071	C	#4 ACSR	7.49Y	124.9	0.01	0.11	5.43	4	39	10	97	0.00	0.0	6.187	0.034	7	2	1	6
PL.41675	PL.54072	C	#4 ACSR	7.49Y	124.9	0.02	0.12	4.52	3	33	9	96	0.00	0.0	6.303	0.115	12	3	2	5
PL.62035	PL.41675	C	#4 ACSR	7.49Y	124.9	0.01	0.13	2.80	2	20	5	97	0.00	0.0	6.458	0.156	19	5	1	3
PL.62036	PL.62035	C	#4 ACSR	7.49Y	124.9	0.00	0.13	0.14	0	1	0	100	0.00	0.0	6.483	0.025	1	0	2	2
PL.54070	PL.41806	ABC	336 MCM AC	7.51Y	125.1	0.00	-0.14	8.95	2	195	52	97	0.00	0.0	5.938	0.059	18	5	1	24
PL.54069	PL.54070	ABC	336 MCM AC	7.51Y	125.1	0.00	-0.14	8.11	2	177	47	97	0.00	0.0	6.000	0.062	15	4	1	23
PL.41877	PL.54069	ABC	336 MCM AC	7.51Y	125.1	0.00	-0.14	6.47	1	141	37	97	0.00	0.0	6.020	0.019	0	0	0	17
PL.41879	PL.41877	ABC	336 MCM AC	7.51Y	125.1	0.00	-0.14	6.11	1	133	35	97	0.00	0.0	6.081	0.061	0	0	0	15
PL.41036	PL.41879	ABC	336 MCM AC	7.51Y	125.1	0.00	-0.13	5.05	1	110	29	97	0.00	0.0	6.124	0.043	0	0	0	10
PL.42190	PL.41036	C	6 A (CWC)	7.51Y	125.1	0.00	-0.13	13.31	10	97	26	97	0.00	0.0	6.129	0.006	0	0	0	9
PD.6779	PL.42190	C	40QA	7.51Y	125.1	0.00	-0.13	13.31	33	97	26	97	0.00	0.0	6.129	0.006	0	0	0	9
PL.42192	PD.6779	C	6 A (CWC)	7.51Y	125.1	0.02	-0.11	13.31	10	97	26	97	0.01	0.0	6.156	0.027	14	4	1	9
PL.61178	PL.42192	C	6 A (CWC)	7.50Y	125.1	0.05	-0.07	11.34	8	82	22	97	0.03	0.0	6.262	0.106	24	6	2	8
PL.66263	PL.61178	C	6 A (CWC)	7.50Y	125.1	0.01	-0.05	8.03	6	58	15	97	0.01	0.0	6.301	0.039	0	0	0	6
PL.66264	PL.66263	C	6 A (CWC)	7.50Y	125.0	0.01	-0.05	8.03	6	58	15	97	0.00	0.0	6.315	0.014	0	0	0	6
PL.61177	PL.66264	C	6 A (CWC)	7.50Y	125.0	0.02	-0.03	8.03	6	58	15	97	0.01	0.0	6.360	0.045	7	2	1	6

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.54087	PL.61177	C	6 A (CWC)	7.50Y	125.0	0.02	-0.01	7.11	5	52	14	97	0.01	0.0	6.455	0.095	20	5	3	5
PL.42193	PL.54087	C	6 A (CWC)	7.50Y	125.0	0.01	-0.00	4.36	3	32	8	97	0.00	0.0	6.531	0.076	32	8	2	2
PL.42191	PL.41036	A	#4 ACSR	7.51Y	125.1	0.00	-0.13	1.83	1	13	4	96	0.00	0.0	6.129	0.006	0	0	0	1
PD.6702	PL.42191	A	40QA	7.51Y	125.1	0.00	-0.13	1.83	5	13	4	96	0.00	0.0	6.129	0.006	0	0	0	1
PL.54361	PD.6702	A	#4 ACSR	7.51Y	125.1	0.00	-0.13	1.83	1	13	4	96	0.00	0.0	6.148	0.019	0	0	0	1
PL.54362	PL.54361	A	#4 ACSR	7.51Y	125.1	0.01	-0.12	1.83	1	13	4	96	0.00	0.0	6.418	0.270	13	4	1	1
PL.41035	PL.41036	ABC	336 MCM AC	7.51Y	125.1	0.00	-0.13	0.00	0	0	0	100	0.00	0.0	6.251	0.127	0	0	0	0
PL.59264	PL.41035	ABC	#3/0 ACSR	7.51Y	125.1	0.00	-0.13	0.00	0	0	0	100	0.00	0.0	6.255	0.004	0	0	0	0
PD.8755-B	PL.59264	ABC	Open	7.51Y	125.1	0.00	-0.13	0.00	0	0	0	100	0.00	0.0	6.255	0.004	0	0	0	0
PL.41881	PL.41879	C	#1/0 ACSR	7.51Y	125.1	0.00	-0.13	0.64	0	5	1	98	0.00	0.0	6.087	0.006	0	0	0	1
PD.6492	PL.41881	C	40QA	7.51Y	125.1	0.00	-0.13	0.64	2	5	1	98	0.00	0.0	6.087	0.006	0	0	0	1
PL.41882	PD.6492	C	#1/0 ACSR	7.51Y	125.1	0.00	-0.13	0.64	0	5	1	98	0.00	0.0	6.103	0.016	5	1	1	1
PL.41880	PL.41879	C	#2 ACSR	7.51Y	125.1	0.00	-0.13	2.55	1	19	5	97	0.00	0.0	6.087	0.006	0	0	0	4
PD.6703	PL.41880	C	40QA	7.51Y	125.1	0.00	-0.13	2.55	6	19	5	97	0.00	0.0	6.087	0.006	0	0	0	4
PL.41033	PD.6703	C	#2 ACSR	7.51Y	125.1	0.01	-0.13	2.55	1	19	5	97	0.00	0.0	6.164	0.077	5	1	1	4
PL.41034	PL.41033	C	#2 ACSR	7.51Y	125.1	0.00	-0.13	1.89	1	14	4	96	0.00	0.0	6.203	0.039	14	4	3	3
PL.41878	PL.41877	A	#2 ACSR	7.51Y	125.1	0.00	-0.14	1.08	1	8	2	97	0.00	0.0	6.025	0.006	0	0	0	2
PD.6493	PL.41878	A	40QA	7.51Y	125.1	0.00	-0.14	1.08	3	8	2	97	0.00	0.0	6.025	0.006	0	0	0	2
PL.54062	PD.6493	A	#2 ACSR	7.51Y	125.1	0.00	-0.14	1.08	1	8	2	97	0.00	0.0	6.035	0.009	8	2	2	2
PL.41876	PL.54069	A	#2 ACSR	7.51Y	125.1	0.00	-0.14	2.77	2	20	5	97	0.00	0.0	6.006	0.006	0	0	0	5
PD.6784	PL.41876	A	40QA	7.51Y	125.1	0.00	-0.14	2.77	7	20	5	97	0.00	0.0	6.006	0.006	0	0	0	5
PL.54063	PD.6784	A	#2 ACSR	7.51Y	125.1	0.00	-0.14	2.77	2	20	5	97	0.00	0.0	6.013	0.007	0	0	0	5
PL.54064	PL.54063	A	#2 ACSR	7.51Y	125.1	0.00	-0.14	2.77	2	20	5	97	0.00	0.0	6.060	0.047	20	5	4	4
PL.54065	PL.54063	A	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	0.00	0	0	0	100	0.00	0.0	6.065	0.052	0	0	1	1
PL.41803	PL.54048	A	#2 ACSR	7.09Y	118.1	0.00	6.86	1.39	1	9	3	95	0.00	0.0	5.787	0.006	0	0	0	1
PD.6576	PL.41803	A	40QA	7.09Y	118.1	0.00	6.86	1.39	3	9	3	95	0.00	0.0	5.787	0.006	0	0	0	1
PL.59360	PD.6576	A	#2 ACSR	7.09Y	118.1	0.00	6.87	1.39	1	9	3	95	0.00	0.0	5.804	0.017	9	3	1	1
PL.41804	PL.54048	C	#2 ACSR	7.09Y	118.1	0.00	6.87	1.80	1	12	3	97	0.00	0.0	5.787	0.006	0	0	0	1
PD.6116	PL.41804	C	40QA	7.09Y	118.1	0.00	6.87	1.80	4	12	3	97	0.00	0.0	5.787	0.006	0	0	0	1
PL.41805	PD.6116	C	#2 ACSR	7.09Y	118.1	0.00	6.87	1.80	1	12	3	97	0.00	0.0	5.797	0.011	12	3	1	1
PL.42531	PL.42530	A	#2 ACSR	7.09Y	118.2	0.00	6.79	0.42	0	3	1	95	0.00	0.0	5.573	0.006	0	0	0	1

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.6575	PL.42531	A	40QA	7.09Y	118.2	0.00	6.79	0.42	1	3	1	95	0.00	0.0	5.573	0.006	0	0	0	1
PL.54051	PD.6575	A	#2 ACSR	7.09Y	118.2	0.00	6.79	0.42	0	3	1	95	0.00	0.0	5.602	0.029	3	1	1	1
PL.41627	PL.41626	C	#2 ACSR	7.10Y	118.4	0.00	6.65	0.00	0	0	0	100	0.00	0.0	5.151	0.006	0	0	0	0
PD.6760	PL.41627	C	40QA	7.10Y	118.4	0.00	6.65	0.00	0	0	0	100	0.00	0.0	5.151	0.006	0	0	0	0
PL.41628	PD.6760	C	#2 ACSR	7.10Y	118.4	0.00	6.65	0.00	0	0	0	100	0.00	0.0	5.159	0.008	0	0	0	0
PL.41623	PL.41622	A	#2 ACSR	7.11Y	118.4	0.00	6.57	2.65	2	18	5	96	0.00	0.0	4.952	0.006	0	0	0	2
PD.6683	PL.41623	A	40QA	7.11Y	118.4	0.00	6.57	2.65	7	18	5	96	0.00	0.0	4.952	0.006	0	0	0	2
PL.41624	PD.6683	A	#2 ACSR	7.11Y	118.4	0.00	6.58	2.65	2	18	5	96	0.00	0.0	4.988	0.036	13	4	1	2
PL.41625	PL.41624	A	#2 ACSR	7.11Y	118.4	0.00	6.58	0.71	0	5	1	98	0.00	0.0	5.022	0.034	5	1	1	1
PL.42520	PL.42519	A	#2 ACSR	7.11Y	118.4	0.00	6.56	0.92	1	6	2	95	0.00	0.0	4.921	0.006	0	0	0	1
PD.6682	PL.42520	A	50QA	7.11Y	118.4	0.00	6.56	0.92	2	6	2	95	0.00	0.0	4.921	0.006	0	0	0	1
PL.41657	PD.6682	A	#2 ACSR	7.11Y	118.4	0.00	6.56	0.92	1	6	2	95	0.00	0.0	4.929	0.007	6	2	1	1
PL.42517	PL.42516	C	#2 ACSR	7.11Y	118.5	0.00	6.55	1.44	1	10	3	96	0.00	0.0	4.880	0.006	0	0	0	1
PD.6573	PL.42517	C	40QA	7.11Y	118.5	0.00	6.55	1.44	4	10	3	96	0.00	0.0	4.880	0.006	0	0	0	1
PL.42518	PD.6573	C	#1/0 ACSR	7.11Y	118.5	0.00	6.55	1.44	1	10	3	96	0.00	0.0	4.911	0.032	10	3	1	1
PL.41366	PL.41819	C	#1/0 ACSR	7.13Y	118.9	0.00	6.08	0.00	0	0	0	100	0.00	0.0	3.899	0.006	0	0	0	0
PD.6758	PL.41366	C	40QA	7.13Y	118.9	0.00	6.08	0.00	0	0	0	100	0.00	0.0	3.899	0.006	0	0	0	0
PL.41367	PD.6758	C	#1/0 ACSR	7.13Y	118.9	0.00	6.08	0.00	0	0	0	100	0.00	0.0	3.908	0.009	0	0	0	0
PL.59401	PL.59403	B	6 A (CWC)	7.15Y	119.1	0.00	5.91	2.48	2	17	5	96	0.00	0.0	3.747	0.006	0	0	0	1
PD.6466	PL.59401	B	60QA	7.15Y	119.1	0.00	5.91	2.48	4	17	5	96	0.00	0.0	3.747	0.006	0	0	0	1
PL.41481	PD.6466	B	6 A (CWC)	7.15Y	119.1	0.00	5.92	2.48	2	17	5	96	0.00	0.0	3.786	0.039	17	5	1	1
PL.61140	PL.56045	C	#1/0 ACSR	7.18Y	119.6	0.00	5.38	1.38	1	10	3	96	0.00	0.0	3.314	0.045	10	3	1	1
PL.62810	PL.62809	B	#4 ACSR	7.20Y	120.1	0.00	4.93	0.00	0	0	0	100	0.00	0.0	2.917	0.006	0	0	0	0
PD.6787	PL.62810	B	40QA	7.20Y	120.1	0.00	4.93	0.00	0	0	0	100	0.00	0.0	2.917	0.006	0	0	0	0
PL.41654	PD.6787	B	#4 ACSR	7.20Y	120.1	0.00	4.93	0.00	0	0	0	100	0.00	0.0	3.052	0.135	0	0	0	0
PL.41655	PL.41654	B	#4 ACSR	7.20Y	120.1	0.00	4.93	0.00	0	0	0	100	0.00	0.0	3.196	0.144	0	0	0	0
PL.42295	PL.42294	A	6 A (CWC)	7.26Y	121.0	0.00	4.04	0.42	0	3	1	95	0.00	0.0	2.254	0.006	0	0	0	2
PD.6578	PL.42295	A	60QA	7.26Y	121.0	0.00	4.04	0.42	1	3	1	95	0.00	0.0	2.254	0.006	0	0	0	2
PL.42296	PD.6578	A	6 A (CWC)	7.26Y	121.0	0.00	4.04	0.42	0	3	1	95	0.00	0.0	2.295	0.041	3	1	2	2
PL.42286	PL.42285	B	#4 ACSR	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	1.918	0.006	0	0	0	0
PD.6606	PL.42286	B	60QA	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	1.918	0.006	0	0	0	0

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

Balanced Voltage Drop Report
Source: Keavy 2

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% 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.42287	PD.6606	B	#4 ACSR	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	1.964	0.046	0	0	0	0
PL.42280	PL.59382	C	6 A (CWC)	7.30Y	121.6	0.00	3.36	7.67	5	54	14	97	0.00	0.0	1.780	0.006	0	0	0	5
PD.6464	PL.42280	C	60QA	7.30Y	121.6	0.00	3.36	7.67	13	54	14	97	0.00	0.0	1.780	0.006	0	0	0	5
PL.59335	PD.6464	C	6 A (CWC)	7.30Y	121.6	0.01	3.38	7.67	5	54	14	97	0.01	0.0	1.831	0.052	22	6	3	5
PL.59336	PL.59335	C	#1/0 ACSR	7.30Y	121.6	0.00	3.38	4.54	2	32	8	97	0.00	0.0	1.847	0.015	32	8	2	2
PL.41515	PL.66131	C	#2 ACSR	7.34Y	122.3	0.00	2.66	1.90	1	14	4	96	0.00	0.0	1.320	0.006	0	0	0	1
PD.6395	PL.41515	C	10QA	7.34Y	122.3	0.00	2.66	1.90	0	14	4	96	0.00	0.0	1.320	0.006	0	0	0	1
PL.41516	PD.6395	C	#2 ACSR	7.34Y	122.3	0.00	2.66	1.90	1	14	4	96	0.00	0.0	1.333	0.013	14	4	1	1
PL.66132	PL.66130	C	#1/0 ACSR	7.34Y	122.4	0.00	2.61	0.73	0	5	1	98	0.00	0.0	1.287	0.003	0	0	0	1
PD.9996	PL.66132	C	20T	7.34Y	122.4	0.00	2.61	0.73	0	5	1	98	0.00	0.0	1.287	0.003	0	0	0	1
PL.66133	PD.9996	C	#1/0 ACSR	7.34Y	122.4	0.00	2.61	0.73	0	5	1	98	0.00	0.0	1.315	0.028	5	1	1	1
PL.42269	PL.52994	C	#4 ACSR	7.47Y	124.5	0.00	0.45	1.05	1	8	2	97	0.00	0.0	0.216	0.006	0	0	0	1
PD.6517	PL.42269	C	75QA	7.47Y	124.5	0.00	0.45	1.05	1	8	2	97	0.00	0.0	0.216	0.006	0	0	0	1
PL.42270	PD.6517	C	#4 ACSR	7.47Y	124.5	0.00	0.45	1.05	1	8	2	97	0.00	0.0	0.250	0.034	8	2	1	1

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	12208	0	0	0	0	0	386	0.00	12594
KVAR	3507	0	0	0	0	0	648		4155

Lowest Voltage = 118.12 on Element PL.41807
Max Accm VoltD = 6.88 on Element PL.41807
Max Elem VoltD = 0.87 on Element PL.61157