

Balanced Voltage Drop Report
Source: Keavy 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
Keavy 1		ABC	SRC-Keavy	7.50Y	125.0	0.00	0.00	336.39	0	7187	2374	95	0.00	0.0	0.000	0.000	0	0	0	723
PL.59419	Keavy 1	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	221.36	43	4722	1583	95	0.14	0.0	0.003	0.003	0	0	0	480
PL.62865	PL.59419	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	221.36	43	4722	1583	95	0.10	0.0	0.006	0.002	0	0	0	480
----- Feeder No. 2 (Hwy 312 East F2) Beginning with Device PD.9438 -----																				
PD.9438	PL.62865	ABC	340VWE	7.50Y	125.0	0.00	0.01	221.36	0	4722	1582	95	0.00	0.0	0.006	0.002	0	0	0	480
PL.62869	PD.9438	ABC	336 MCM AC	7.50Y	125.0	0.03	0.04	221.36	43	4722	1582	95	0.70	0.0	0.023	0.017	0	0	0	480
PL.62868	PL.62869	ABC	336 MCM AC	7.50Y	124.9	0.03	0.07	221.36	43	4721	1581	95	0.66	0.0	0.039	0.016	0	0	0	480
PL.62866	PL.62868	ABC	336 MCM AC	7.49Y	124.9	0.06	0.13	221.36	43	4721	1579	95	1.41	0.0	0.073	0.034	0	0	0	480
PL.57446	PL.62866	ABC	336 MCM AC	7.49Y	124.8	0.10	0.23	221.36	43	4719	1576	95	2.29	0.0	0.129	0.056	0	0	0	480
PL.57454	PL.57446	ABC	336 MCM AC	7.48Y	124.7	0.04	0.27	221.36	43	4717	1571	95	1.03	0.0	0.154	0.025	0	0	0	480
PL.57456	PL.57454	ABC	336 MCM AC	7.48Y	124.7	0.01	0.28	221.36	43	4716	1568	95	0.15	0.0	0.157	0.004	6	2	1	480
PL.57458	PL.57456	C	6 A (CWC)	7.48Y	124.7	0.00	0.28	2.53	2	18	5	96	0.00	0.0	0.163	0.006	0	0	0	2
PD.8361	PL.57458	C	40QA	7.48Y	124.7	0.00	0.28	2.53	6	18	5	96	0.00	0.0	0.163	0.006	0	0	0	2
PL.57457	PD.8361	C	6 A (CWC)	7.48Y	124.7	0.00	0.28	2.53	2	18	5	96	0.00	0.0	0.213	0.050	18	5	2	2
PL.57460	PL.57456	C	#2 ACSR	7.48Y	124.7	0.00	0.28	0.00	0	0	0	100	0.00	0.0	0.163	0.006	0	0	0	1
PD.8362	PL.57460	C	40QA	7.48Y	124.7	0.00	0.28	0.00	0	0	0	100	0.00	0.0	0.163	0.006	0	0	0	1
PL.57459	PD.8362	C	#2 ACSR	7.48Y	124.7	0.00	0.28	0.00	0	0	0	100	0.00	0.0	0.199	0.036	0	0	1	1
PL.57455	PL.57456	ABC	336 MCM AC	7.48Y	124.7	0.07	0.34	220.22	42	4691	1561	95	1.56	0.0	0.195	0.038	0	0	0	476
PL.57440	PL.57455	ABC	336 MCM AC	7.47Y	124.6	0.09	0.43	220.22	42	4690	1557	95	2.11	0.0	0.247	0.052	0	0	0	476
PL.57441	PL.57440	ABC	336 MCM AC	7.47Y	124.5	0.06	0.49	220.22	42	4688	1552	95	1.46	0.0	0.283	0.036	0	0	0	476
PL.57437	PL.57441	ABC	336 MCM AC	7.47Y	124.4	0.08	0.57	220.22	42	4686	1549	95	1.91	0.0	0.330	0.047	0	0	0	476
PL.57448	PL.57437	ABC	#3/0 ACSR	7.46Y	124.4	0.01	0.59	219.97	73	4679	1542	95	0.31	0.0	0.334	0.004	0	0	0	475
PL.57447	PL.57448	ABC	336 MCM AC	7.46Y	124.3	0.07	0.65	219.97	42	4679	1542	95	1.61	0.0	0.373	0.040	0	0	0	475
PL.57443	PL.57447	ABC	336 MCM AC	7.46Y	124.3	0.07	0.73	219.97	42	4677	1538	95	1.71	0.0	0.415	0.042	0	0	0	475
PL.57438	PL.57443	ABC	336 MCM AC	7.45Y	124.2	0.09	0.81	219.97	42	4675	1534	95	2.09	0.0	0.466	0.051	0	0	0	475
PL.57467	PL.57438	ABC	336 MCM AC	7.45Y	124.1	0.09	0.90	219.97	42	4673	1529	95	2.09	0.0	0.518	0.051	0	0	0	475
PL.57466	PL.57467	ABC	336 MCM AC	7.44Y	124.0	0.11	1.02	219.97	42	4671	1524	95	2.70	0.1	0.584	0.066	0	0	0	475
PL.59547	PL.57466	ABC	336 MCM AC	7.44Y	123.9	0.06	1.07	219.39	42	4656	1514	95	1.33	0.0	0.617	0.033	0	0	0	474
PL.59548	PL.59547	ABC	336 MCM AC	7.43Y	123.9	0.06	1.13	219.39	42	4655	1511	95	1.30	0.0	0.649	0.032	14	4	1	474
PL.59362	PL.59548	ABC	336 MCM AC	7.43Y	123.8	0.08	1.21	218.73	42	4639	1504	95	1.91	0.0	0.696	0.047	0	0	0	473

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

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.59361	PL.59362	ABC	336 MCM AC	7.42Y	123.7	0.09	1.30	218.73	42	4637	1500	95	2.03	0.0	0.747	0.050	0	0	0	473
PL.57450	PL.59361	ABC	336 MCM AC	7.42Y	123.6	0.06	1.36	218.73	42	4635	1495	95	1.46	0.0	0.783	0.036	0	0	0	473
PL.57449	PL.57450	ABC	336 MCM AC	7.42Y	123.6	0.00	1.36	218.73	42	4634	1492	95	0.10	0.0	0.785	0.002	0	0	0	473
PL.57423	PL.57449	ABC	336 MCM AC	7.42Y	123.6	0.00	1.36	218.73	42	4634	1491	95	0.02	0.0	0.786	0.001	0	0	0	473
PL.57422	PL.57423	ABC	336 MCM AC	7.41Y	123.6	0.07	1.44	218.73	42	4634	1491	95	1.71	0.0	0.828	0.043	0	0	0	473
PL.62023	PL.57422	ABC	336 MCM AC	7.41Y	123.6	0.00	1.44	218.73	42	4632	1487	95	0.10	0.0	0.831	0.002	7	2	1	473
PL.62025	PL.62023	ABC	336 MCM AC	7.41Y	123.5	0.04	1.48	218.42	42	4625	1485	95	0.98	0.0	0.855	0.024	2	1	1	472
PL.62027	PL.62025	B	#2 ACSR	7.41Y	123.5	0.00	1.48	0.00	0	0	0	100	0.00	0.0	0.857	0.002	0	0	0	0
PD.9306	PL.62027	B	40QA	7.41Y	123.5	0.00	1.48	0.00	0	0	0	100	0.00	0.0	0.857	0.002	0	0	0	0
PL.62024	PD.9306	B	#2 ACSR	7.41Y	123.5	0.00	1.48	0.00	0	0	0	100	0.00	0.0	0.911	0.054	0	0	0	0
PL.62026	PL.62025	ABC	336 MCM AC	7.41Y	123.5	0.03	1.51	218.31	42	4622	1482	95	0.76	0.0	0.874	0.019	0	0	0	471
PL.62718	PL.62026	ABC	336 MCM AC	7.40Y	123.4	0.08	1.60	218.31	42	4621	1480	95	1.95	0.0	0.923	0.049	0	0	0	471
PL.64084	PL.62718	ABC	336 MCM AC	7.40Y	123.3	0.06	1.66	218.31	42	4619	1476	95	1.44	0.0	0.959	0.036	0	0	0	471
PL.64083	PL.64084	ABC	336 MCM AC	7.40Y	123.3	0.08	1.74	218.31	42	4618	1472	95	1.85	0.0	1.005	0.046	0	0	0	471
PL.57436	PL.64083	ABC	336 MCM AC	7.39Y	123.2	0.05	1.79	217.55	42	4600	1463	95	1.29	0.0	1.037	0.032	0	0	0	470
PL.57463	PL.57436	ABC	336 MCM AC	7.39Y	123.2	0.01	1.80	217.55	42	4598	1460	95	0.15	0.0	1.041	0.004	0	0	0	470
PL.57472	PL.57463	ABC	336 MCM AC	7.39Y	123.1	0.06	1.86	217.55	42	4598	1460	95	1.39	0.0	1.076	0.035	0	0	0	470
PL.57474	PL.57472	ABC	336 MCM AC	7.38Y	123.1	0.07	1.92	217.03	42	4586	1453	95	1.53	0.0	1.114	0.039	0	0	0	468
PL.57465	PL.57474	ABC	336 MCM AC	7.38Y	123.0	0.11	2.03	217.03	42	4585	1450	95	2.70	0.1	1.182	0.068	0	0	0	468
PL.57464	PL.57465	ABC	336 MCM AC	7.37Y	122.9	0.10	2.13	217.03	42	4582	1443	95	2.33	0.1	1.241	0.059	0	0	0	468
PL.57427	PL.57464	ABC	336 MCM AC	7.37Y	122.8	0.10	2.23	217.03	42	4579	1438	95	2.28	0.0	1.299	0.057	0	0	0	468
PL.57468	PL.57427	ABC	336 MCM AC	7.36Y	122.7	0.09	2.32	217.03	42	4577	1433	95	2.15	0.0	1.353	0.054	0	0	0	468
PL.57470	PL.57468	ABC	#3/0 ACSR	7.36Y	122.7	0.01	2.33	217.03	72	4575	1428	95	0.20	0.0	1.355	0.003	0	0	0	468
PL.57453	PL.57470	ABC	#3/0 ACSR	7.35Y	122.6	0.10	2.43	217.03	72	4575	1427	95	2.88	0.1	1.392	0.036	0	0	0	468
PL.62031	PL.57453	B	#1/0 ACSR	7.35Y	122.6	0.00	2.43	5.11	2	36	11	96	0.00	0.0	1.428	0.036	15	5	3	7
PL.62032	PL.62031	B	#1/0 ACSR	7.35Y	122.6	0.00	2.44	2.92	1	21	6	96	0.00	0.0	1.497	0.069	21	6	4	4
PL.57429	PL.57453	B	#1/0 ACSR	7.35Y	122.6	0.00	2.43	7.00	3	49	15	96	0.00	0.0	1.397	0.006	0	0	0	7
PD.8368	PL.57429	B	40QA	7.35Y	122.6	0.00	2.43	7.00	18	49	15	96	0.00	0.0	1.397	0.006	0	0	0	7
PL.57428	PD.8368	B	#1/0 ACSR	7.35Y	122.6	0.00	2.43	7.00	3	49	15	96	0.00	0.0	1.444	0.046	49	15	7	7
PL.57452	PL.57453	ABC	#3/0 ACSR	7.35Y	122.6	0.01	2.44	213.00	71	4487	1398	95	0.27	0.0	1.395	0.004	0	0	0	454
PL.57451	PL.57452	ABC	336 MCM AC	7.35Y	122.4	0.11	2.55	213.00	41	4486	1397	95	2.67	0.1	1.465	0.070	0	0	0	454

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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	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.57430	PL.57451	ABC	336 MCM AC	7.34Y	122.3	0.10	2.65	213.00	41	4484	1391	96	2.23	0.0	1.524	0.058	0	0	0	454
PL.57431	PL.57430	ABC	336 MCM AC	7.34Y	122.3	0.06	2.71	213.00	41	4481	1386	96	1.39	0.0	1.560	0.036	0	0	0	454
PL.57434	PL.57431	B	#1/0 ACSR	7.34Y	122.3	0.00	2.71	4.31	2	30	9	96	0.00	0.0	1.566	0.006	0	0	0	5
PD.8369	PL.57434	B	40QA	7.34Y	122.3	0.00	2.71	4.31	11	30	9	96	0.00	0.0	1.566	0.006	0	0	0	5
PL.57435	PD.8369	B	#1/0 ACSR	7.34Y	122.3	0.00	2.71	4.31	2	30	9	96	0.00	0.0	1.576	0.010	12	4	1	5
PL.57433	PL.57435	B	#1/0 ACSR	7.34Y	122.3	0.00	2.71	2.56	1	18	5	96	0.00	0.0	1.614	0.038	18	5	4	4
PL.57432	PL.57431	ABC	336 MCM AC	7.33Y	122.2	0.13	2.84	211.56	41	4450	1373	96	3.07	0.1	1.641	0.081	0	0	0	449
PL.58880	PL.57432	ABC	336 MCM AC	7.33Y	122.2	0.00	2.85	211.56	41	4447	1366	96	0.07	0.0	1.643	0.002	0	0	0	449
PD.8483-A	PL.58880	ABC	Closed	7.33Y	122.2	0.00	2.85	211.56	0	4447	1366	96	0.00	0.0	1.643	0.002	0	0	0	449
PD.8483-B	PD.8483-A	ABC	Closed	7.33Y	122.2	0.00	2.85	211.56	0	4447	1366	96	0.00	0.0	1.643	0.002	0	0	0	449
PL.58881	PD.8483-B	ABC	336 MCM AC	7.32Y	122.0	0.16	3.00	211.56	41	4447	1366	96	3.67	0.1	1.741	0.098	21	6	2	449
PL.58879	PL.58881	ABC	6 A (CWC)	7.32Y	122.0	0.00	3.00	0.00	0	0	0	100	0.00	0.0	1.785	0.044	0	0	0	1
PL.59367	PL.58879	B	#4 ACSR	7.32Y	122.0	0.00	3.00	0.01	0	0	0	100	0.00	0.0	1.789	0.003	0	0	0	1
PD.8762	PL.59367	B	40QA	7.32Y	122.0	0.00	3.00	0.01	0	0	0	100	0.00	0.0	1.789	0.003	0	0	0	1
PL.59368	PD.8762	B	#4 ACSR	7.32Y	122.0	0.00	3.00	0.01	0	0	0	100	0.00	0.0	1.883	0.095	0	0	1	1
PL.62405	PL.58881	ABC	336 MCM AC	7.31Y	121.8	0.17	3.18	210.54	41	4421	1351	96	3.98	0.1	1.848	0.107	18	5	2	446
PL.62408	PL.62405	ABC	#2 ACSR	7.29Y	121.5	0.33	3.50	138.89	79	2914	886	96	7.34	0.3	1.941	0.093	0	0	0	306
PL.56676	PL.62408	ABC	#2 ACSR	7.27Y	121.2	0.26	3.76	136.34	78	2853	866	96	5.63	0.2	2.015	0.074	19	6	2	300
PL.56678	PL.56676	A	6 A (CWC)	7.27Y	121.2	0.00	3.76	0.86	1	6	2	95	0.00	0.0	2.021	0.006	0	0	0	2
PD.6523	PL.56678	A	75QA	7.27Y	121.2	0.00	3.76	0.86	1	6	2	95	0.00	0.0	2.021	0.006	0	0	0	2
PL.56825	PD.6523	A	6 A (CWC)	7.27Y	121.2	0.00	3.76	0.86	1	6	2	95	0.00	0.0	2.067	0.047	6	2	2	2
PL.56677	PL.56676	ABC	#2 ACSR	7.27Y	121.1	0.11	3.87	135.16	77	2823	855	96	2.44	0.1	2.048	0.033	0	0	0	296
PL.56875	PL.56677	ABC	#2 ACSR	7.26Y	121.1	0.07	3.95	59.83	34	1249	376	96	0.71	0.1	2.097	0.049	30	9	2	137
PL.56876	PL.56875	ABC	#2 ACSR	7.26Y	121.0	0.03	3.98	58.38	33	1218	366	96	0.28	0.0	2.117	0.020	0	0	1	135
PL.56680	PL.56876	ABC	#2 ACSR	7.26Y	120.9	0.08	4.05	56.57	32	1180	355	96	0.70	0.1	2.171	0.054	13	4	2	131
PL.56679	PL.56680	ABC	#2 ACSR	7.25Y	120.9	0.03	4.09	55.95	32	1166	351	96	0.31	0.0	2.195	0.024	0	0	0	129
PL.42697	PL.56679	ABC	#2 ACSR	7.25Y	120.9	0.01	4.09	55.95	32	1166	351	96	0.07	0.0	2.200	0.006	0	0	0	129
PD.6811	PL.42697	ABC	100L	7.25Y	120.9	0.00	4.09	55.95	56	1166	350	96	0.00	0.0	2.200	0.006	0	0	0	129
PL.56681	PD.6811	ABC	#2 ACSR	7.25Y	120.9	0.02	4.12	55.95	32	1166	350	96	0.22	0.0	2.218	0.018	28	8	6	129
PL.56682	PL.56681	ABC	#2 ACSR	7.25Y	120.8	0.08	4.20	54.59	31	1137	342	96	0.72	0.1	2.277	0.059	0	0	0	123
PL.56408	PL.56682	C	#2 ACSR	7.25Y	120.8	0.00	4.20	3.21	2	22	7	95	0.00	0.0	2.283	0.006	0	0	0	8

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Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PD.6521	PL.56408	C	50QA	7.25Y	120.8	0.00	4.20	3.21	6	22	7	95	0.00	0.0	2.283	0.006	0	0	0	8
PL.63475	PD.6521	C	#2 ACSR	7.25Y	120.8	0.00	4.21	3.21	2	22	7	95	0.00	0.0	2.324	0.041	0	0	0	8
PL.63476	PL.63475	C	#2 ACSR	7.25Y	120.8	0.00	4.21	3.21	2	22	7	95	0.00	0.0	2.324	0.000	22	7	8	8
PL.56407	PL.56682	ABC	#2 ACSR	7.24Y	120.7	0.07	4.28	53.52	31	1114	335	96	0.63	0.1	2.332	0.055	29	9	2	115
PL.41457	PL.56407	A	#4 ACSR	7.24Y	120.7	0.00	4.28	1.36	1	9	3	95	0.00	0.0	2.410	0.077	9	3	1	1
PL.41594	PL.56407	ABC	#2 ACSR	7.24Y	120.7	0.05	4.33	37.31	21	777	233	96	0.30	0.0	2.385	0.052	0	0	0	84
PL.41311	PL.41594	ABC	#2 ACSR	7.24Y	120.6	0.03	4.36	37.31	21	776	233	96	0.19	0.0	2.418	0.033	0	0	0	84
PL.41706	PL.41311	ABC	#2 ACSR	7.24Y	120.6	0.04	4.40	37.31	21	776	233	96	0.26	0.0	2.463	0.045	4	1	1	84
PL.41707	PL.41706	A	6 A (CWC)	7.24Y	120.6	0.00	4.40	1.08	1	7	2	96	0.00	0.0	2.468	0.006	0	0	0	2
PD.6420	PL.41707	A	50QA	7.24Y	120.6	0.00	4.40	1.08	2	7	2	96	0.00	0.0	2.468	0.006	0	0	0	2
PL.41030	PD.6420	A	6 A (CWC)	7.24Y	120.6	0.00	4.40	1.08	1	7	2	96	0.00	0.0	2.493	0.025	5	2	1	2
PL.41031	PL.41030	A	6 A (CWC)	7.24Y	120.6	0.00	4.40	0.32	0	2	1	89	0.00	0.0	2.530	0.036	0	0	0	1
PL.42268	PL.41031	A	6 A (CWC)	7.24Y	120.6	0.00	4.40	0.32	0	2	1	89	0.00	0.0	2.530	0.000	2	1	1	1
PL.56967	PL.41706	ABC	#2 ACSR	7.23Y	120.6	0.04	4.44	36.76	21	764	229	96	0.22	0.0	2.503	0.040	10	3	1	81
PL.56968	PL.56967	ABC	#2 ACSR	7.23Y	120.5	0.04	4.47	35.56	20	739	222	96	0.22	0.0	2.545	0.043	6	2	1	79
PL.56797	PL.56968	ABC	#2 ACSR	7.23Y	120.4	0.10	4.58	35.29	20	733	220	96	0.58	0.1	2.659	0.113	0	0	1	78
PL.56798	PL.56797	ABC	#1/0 ACSR	7.23Y	120.4	0.00	4.58	11.66	5	242	73	96	0.00	0.0	2.664	0.006	0	0	0	36
PD.6582	PL.56798	ABC	50QA	7.23Y	120.4	0.00	4.58	11.66	23	242	73	96	0.00	0.0	2.664	0.006	0	0	0	36
PL.56816	PD.6582	ABC	#1/0 ACSR	7.22Y	120.4	0.02	4.60	11.66	5	242	73	96	0.03	0.0	2.755	0.091	0	0	0	36
PL.56818	PL.56816	ABC	#1/0 ACSR	7.22Y	120.4	0.00	4.60	7.81	3	162	49	96	0.00	0.0	2.788	0.032	10	3	2	34
PL.56819	PL.56818	ABC	#1/0 ACSR	7.22Y	120.4	0.01	4.61	7.32	3	152	46	96	0.01	0.0	2.851	0.063	0	0	0	32
PL.56815	PL.56819	ABC	#1/0 ACSR	7.22Y	120.4	0.01	4.62	6.86	3	142	43	96	0.01	0.0	2.946	0.095	0	0	0	29
PL.41448	PL.56815	C	#4 ACSR	7.22Y	120.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	2.975	0.028	0	0	0	0
PL.42693	PL.56815	ABC	#1/0 ACSR	7.22Y	120.4	0.01	4.63	6.86	3	142	43	96	0.01	0.0	2.991	0.044	0	0	0	29
PL.42694	PL.42693	ABC	#1/0 ACSR	7.22Y	120.4	0.00	4.63	6.86	3	142	43	96	0.00	0.0	3.016	0.025	0	0	0	29
PL.42695	PL.42694	ABC	#1/0 ACSR	7.22Y	120.4	0.01	4.64	6.86	3	142	43	96	0.01	0.0	3.072	0.056	0	0	0	29
PL.42213	PL.42695	C	#4 ACSR	7.22Y	120.3	0.02	4.65	4.72	4	33	10	96	0.00	0.0	3.156	0.084	0	0	0	5
PL.63477	PL.42213	C	#4 ACSR	7.22Y	120.3	0.01	4.66	1.44	1	10	3	96	0.00	0.0	3.258	0.102	0	0	0	2
PL.63478	PL.63477	C	#4 ACSR	7.22Y	120.3	0.00	4.66	1.27	1	9	3	95	0.00	0.0	3.278	0.019	9	3	1	1
PL.63479	PL.63477	C	1/0 AL URD	7.22Y	120.3	0.00	4.66	0.17	0	1	0	100	0.00	0.0	3.357	0.099	0	0	0	1
PL.63480	PL.63479	C	1/0 AL URD	7.22Y	120.3	0.00	4.66	0.17	0	1	0	100	0.00	0.0	3.434	0.077	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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.42214	PL.42213	C	#4 ACSR	7.22Y	120.3	0.01	4.67	3.29	3	23	7	96	0.00	0.0	3.322	0.166	19	6	2	3
PL.56977	PL.42214	C	#4 ACSR	7.22Y	120.3	0.00	4.67	0.60	0	4	1	97	0.00	0.0	3.386	0.064	4	1	1	1
PL.42696	PL.42695	C	#4 ACSR	7.22Y	120.4	0.01	4.65	15.84	12	110	33	96	0.01	0.0	3.091	0.019	21	6	6	24
PL.42207	PL.42696	C	#4 ACSR	7.22Y	120.3	0.02	4.67	12.88	10	89	27	96	0.01	0.0	3.120	0.030	7	2	1	18
PL.42208	PL.42207	C	#4 ACSR	7.22Y	120.3	0.04	4.70	11.82	9	82	24	96	0.02	0.0	3.194	0.074	0	0	0	17
PL.59137	PL.42208	C	#4 ACSR	7.22Y	120.3	0.00	4.70	0.65	0	4	1	97	0.00	0.0	3.223	0.029	4	1	2	2
PL.42209	PL.42208	C	#4 ACSR	7.22Y	120.3	0.01	4.72	11.18	9	77	23	96	0.01	0.0	3.222	0.028	6	2	1	15
PL.59302	PL.42209	C	#4 ACSR	7.22Y	120.3	0.01	4.73	9.67	7	67	20	96	0.01	0.0	3.256	0.034	8	2	1	13
PL.59301	PL.59302	C	#4 ACSR	7.22Y	120.3	0.00	4.73	0.00	0	0	0	100	0.00	0.0	3.314	0.058	0	0	0	0
PL.59303	PL.59302	C	#4 ACSR	7.21Y	120.2	0.02	4.75	8.51	7	59	18	96	0.01	0.0	3.310	0.055	10	3	2	12
PL.56988	PL.59303	C	#4 ACSR	7.21Y	120.2	0.00	4.75	0.79	1	5	2	93	0.00	0.0	3.365	0.054	5	2	1	1
PL.41348	PL.59303	C	#2 ACSR	7.21Y	120.2	0.00	4.75	0.67	0	5	1	98	0.00	0.0	3.333	0.022	5	1	1	1
PL.42210	PL.59303	C	#4 ACSR	7.21Y	120.2	0.02	4.77	5.63	4	39	12	96	0.01	0.0	3.422	0.112	14	4	2	8
PL.42211	PL.42210	C	#4 ACSR	7.21Y	120.2	0.00	4.78	3.66	3	25	8	95	0.00	0.0	3.437	0.015	0	0	0	6
PL.41349	PL.42211	C	#4 ACSR	7.21Y	120.2	0.00	4.78	1.87	1	13	4	96	0.00	0.0	3.471	0.034	13	4	2	2
PL.42212	PL.42211	C	#4 ACSR	7.21Y	120.2	0.00	4.78	1.79	1	12	4	95	0.00	0.0	3.486	0.049	5	2	1	4
PL.56989	PL.42212	C	#4 ACSR	7.21Y	120.2	0.00	4.78	1.00	1	7	2	96	0.00	0.0	3.534	0.048	7	2	1	3
PL.56990	PL.56989	C	#2 ACSR	7.21Y	120.2	0.00	4.78	0.02	0	0	0	100	0.00	0.0	3.552	0.019	0	0	2	2
PL.41713	PL.42209	C	#4 ACSR	7.22Y	120.3	0.00	4.72	0.68	1	5	1	98	0.00	0.0	3.263	0.041	5	1	1	1
PL.56814	PL.56819	C	#4 ACSR	7.22Y	120.4	0.00	4.61	1.40	1	10	3	96	0.00	0.0	2.894	0.043	10	3	3	3
PL.56817	PL.56816	A	#1/0 ACSR	7.22Y	120.4	0.00	4.60	11.53	5	80	24	96	0.00	0.0	2.758	0.003	0	0	0	2
PD.8249	PL.56817	A	20T	7.22Y	120.4	0.00	4.60	11.53	0	80	24	96	0.00	0.0	2.758	0.003	0	0	0	2
PL.56801	PD.8249	A	#1/0 ACSR	7.22Y	120.4	0.01	4.60	11.53	5	80	24	96	0.00	0.0	2.806	0.047	80	24	2	2
PL.56799	PL.56797	ABC	#1/0 ACSR	7.22Y	120.4	0.02	4.59	23.63	10	491	147	96	0.06	0.0	2.699	0.040	21	6	2	41
PL.56800	PL.56799	ABC	#1/0 ACSR	7.22Y	120.4	0.03	4.62	22.61	10	469	141	96	0.10	0.0	2.771	0.072	13	4	1	39
PL.42080	PL.56800	ABC	#1/0 ACSR	7.22Y	120.4	0.01	4.63	21.99	10	456	137	96	0.04	0.0	2.802	0.031	0	0	0	38
PL.56405	PL.42080	ABC	#1/0 ACSR	7.22Y	120.3	0.03	4.66	21.99	10	456	137	96	0.09	0.0	2.870	0.068	4	1	1	38
PL.56404	PL.56405	ABC	#2 ACSR	7.22Y	120.3	0.00	4.66	0.07	0	1	0	100	0.00	0.0	2.885	0.015	1	0	1	1
PL.42081	PL.56404	B	6 A (CWC)	7.22Y	120.3	0.00	4.66	0.00	0	0	0	100	0.00	0.0	2.891	0.006	0	0	0	0
PD.6714	PL.42081	B	40QA	7.22Y	120.3	0.00	4.66	0.00	0	0	0	100	0.00	0.0	2.891	0.006	0	0	0	0
PL.42082	PD.6714	B	6 A (CWC)	7.22Y	120.3	0.00	4.66	0.00	0	0	0	100	0.00	0.0	2.969	0.078	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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.41753	PL.56404	B	6 A (CWC)	7.22Y	120.3	0.00	4.66	0.00	0	0	0	100	0.00	0.0	2.983	0.098	0	0	0	0
PL.56406	PL.56405	ABC	#1/0 ACSR	7.22Y	120.3	0.03	4.69	21.71	9	451	135	96	0.09	0.0	2.947	0.077	15	4	1	36
PL.56410	PL.56406	ABC	#1/0 ACSR	7.22Y	120.3	0.02	4.71	17.29	8	359	107	96	0.05	0.0	3.015	0.068	33	10	2	29
PL.56664	PL.56410	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.72	11.45	5	237	71	96	0.01	0.0	3.050	0.036	3	1	1	19
PL.42085	PL.56664	A	#4 ACSR	7.22Y	120.3	0.00	4.72	2.08	2	14	4	96	0.00	0.0	3.056	0.006	0	0	0	1
PD.6584	PL.42085	A	40QA	7.22Y	120.3	0.00	4.72	2.08	5	14	4	96	0.00	0.0	3.056	0.006	0	0	0	1
PL.42086	PD.6584	A	#4 ACSR	7.22Y	120.3	0.00	4.72	2.08	2	14	4	96	0.00	0.0	3.104	0.048	14	4	1	1
PL.42087	PL.56664	ABC	#1/0 ACSR	7.22Y	120.3	0.01	4.73	10.62	5	220	66	96	0.01	0.0	3.085	0.035	19	6	1	17
PL.42088	PL.42087	ABC	#1/0 ACSR	7.22Y	120.3	0.00	4.73	9.72	4	202	60	96	0.01	0.0	3.109	0.023	0	0	0	16
PL.41670	PL.42088	A	#4 ACSR	7.22Y	120.3	0.00	4.73	12.62	10	87	26	96	0.00	0.0	3.114	0.006	0	0	0	6
PD.6585	PL.41670	A	40QA	7.22Y	120.3	0.00	4.73	12.62	32	87	26	96	0.00	0.0	3.114	0.006	0	0	0	6
PL.41671	PD.6585	A	#4 ACSR	7.21Y	120.2	0.02	4.75	12.62	10	87	26	96	0.01	0.0	3.150	0.036	0	0	0	6
PL.56877	PL.41671	A	#4 ACSR	7.21Y	120.2	0.00	4.76	4.66	4	32	10	95	0.00	0.0	3.173	0.023	32	10	3	3
PL.56878	PL.41671	A	#4 ACSR	7.21Y	120.2	0.01	4.76	7.96	6	55	16	96	0.00	0.0	3.178	0.028	19	6	1	3
PL.56879	PL.56878	A	#4 ACSR	7.21Y	120.2	0.01	4.77	5.19	4	36	11	96	0.00	0.0	3.239	0.062	36	11	2	2
PL.65739	PL.56879	A	#4 ACSR	7.21Y	120.2	0.00	4.77	0.00	0	0	0	100	0.00	0.0	3.245	0.006	0	0	0	0
PL.41672	PL.42088	A	6 A (CWC)	7.22Y	120.3	0.01	4.74	16.53	12	114	34	96	0.01	0.0	3.125	0.016	0	0	0	10
PL.58185	PL.41672	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	16.53	12	114	34	96	0.00	0.0	3.127	0.002	0	0	0	10
PD.8605	PL.58185	A	25T	7.22Y	120.3	0.00	4.74	16.53	0	114	34	96	0.00	0.0	3.127	0.002	0	0	0	10
PL.58186	PD.8605	A	6 A (CWC)	7.21Y	120.2	0.01	4.76	16.53	12	114	34	96	0.01	0.0	3.148	0.021	42	13	2	10
PL.58184	PL.58186	A	6 A (CWC)	7.21Y	120.2	0.02	4.78	10.40	7	72	22	96	0.01	0.0	3.194	0.046	0	0	0	8
PL.56884	PL.58184	A	#4 ACSR	7.21Y	120.2	0.00	4.78	1.06	1	7	2	96	0.00	0.0	3.216	0.022	7	2	1	1
PL.56885	PL.56884	A	#4 ACSR	7.21Y	120.2	0.00	4.78	0.00	0	0	0	100	0.00	0.0	3.237	0.021	0	0	0	0
PL.56882	PL.58184	A	6 A (CWC)	7.21Y	120.2	0.03	4.80	9.34	7	65	19	96	0.01	0.0	3.254	0.060	0	0	0	7
PL.56883	PL.56882	A	6 A (CWC)	7.21Y	120.2	0.02	4.82	9.34	7	65	19	96	0.01	0.0	3.290	0.036	0	0	0	7
PL.42104	PL.56883	A	6 A (CWC)	7.21Y	120.1	0.04	4.86	9.34	7	64	19	96	0.02	0.0	3.377	0.088	0	0	0	7
PL.56899	PL.42104	A	6 A (CWC)	7.21Y	120.1	0.02	4.88	8.24	6	57	17	96	0.01	0.0	3.428	0.051	0	0	0	6
PL.56901	PL.56899	A	6 A (CWC)	7.21Y	120.1	0.01	4.89	3.37	2	23	7	96	0.00	0.0	3.554	0.125	23	7	1	3
PL.42106	PL.56901	A	6 A (CWC)	7.21Y	120.1	0.00	4.89	0.05	0	0	0	100	0.00	0.0	3.711	0.157	0	0	2	2
PL.72987	PL.42106	A	6 A (CWC)	7.21Y	120.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	3.711	0.000	0	0	0	0
PL.72988	PL.72987	A	6 A (CWC)	7.21Y	120.1	0.00	4.89	0.00	0	0	0	100	0.00	0.0	3.969	0.258	0	0	0	0

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Balanced Voltage Drop Report
Source: Keavy 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.56900	PL.56899	A	6 A (CWC)	7.21Y	120.1	0.04	4.91	4.88	3	34	10	96	0.01	0.0	3.593	0.165	0	0	0	3
PL.56898	PL.56900	A	6 A (CWC)	7.20Y	120.1	0.00	4.92	4.88	3	34	10	96	0.00	0.0	3.614	0.020	0	0	0	3
PL.56897	PL.56898	A	#2 ACSR	7.20Y	120.1	0.00	4.92	1.45	1	10	3	96	0.00	0.0	3.627	0.013	10	3	1	1
PL.42105	PL.56898	A	6 A (CWC)	7.20Y	120.1	0.01	4.93	3.42	2	24	7	96	0.00	0.0	3.680	0.066	8	2	1	2
PL.41419	PL.42105	A	#2 ACSR	7.20Y	120.1	0.00	4.93	0.00	0	0	0	100	0.00	0.0	3.731	0.051	0	0	0	0
PL.56881	PL.42105	A	#4 ACSR	7.20Y	120.1	0.00	4.93	2.23	2	15	5	95	0.00	0.0	3.748	0.068	15	5	1	1
PL.42232	PL.42104	A	1/0 AL URD	7.21Y	120.1	0.00	4.86	1.09	1	8	2	97	0.00	0.0	3.428	0.051	8	2	1	1
PL.41835	PL.56883	A	6 A (CWC)	7.21Y	120.2	0.00	4.82	0.00	0	0	0	100	0.00	0.0	3.338	0.048	0	0	0	0
PL.56665	PL.56410	B	#4/0 ACSR	7.22Y	120.3	0.01	4.72	12.70	4	88	26	96	0.00	0.0	3.069	0.054	12	4	1	8
PL.56666	PL.56665	B	#4/0 ACSR	7.22Y	120.3	0.00	4.72	3.68	1	25	8	95	0.00	0.0	3.097	0.029	8	2	1	2
PL.56886	PL.56666	B	#4/0 ACSR	7.22Y	120.3	0.00	4.72	2.49	1	17	5	96	0.00	0.0	3.127	0.029	17	5	1	1
PL.56668	PL.56665	B	#4/0 ACSR	7.22Y	120.3	0.00	4.72	7.25	2	50	15	96	0.00	0.0	3.102	0.034	10	3	1	5
PL.56669	PL.56668	B	#4/0 ACSR	7.22Y	120.3	0.00	4.73	1.40	0	10	3	96	0.00	0.0	3.209	0.107	0	0	0	1
PL.42096	PL.56669	B	#4/0 ACSR	7.22Y	120.3	0.00	4.73	1.40	0	10	3	96	0.00	0.0	3.306	0.097	10	3	1	1
PL.56667	PL.56668	B	#4/0 ACSR	7.22Y	120.3	0.00	4.73	4.37	1	30	9	96	0.00	0.0	3.168	0.065	30	9	3	3
PL.42083	PL.56406	C	#4 ACSR	7.22Y	120.3	0.00	4.69	11.15	9	77	23	96	0.00	0.0	2.952	0.006	0	0	0	6
PD.6583	PL.42083	C	50QA	7.22Y	120.3	0.00	4.69	11.15	22	77	23	96	0.00	0.0	2.952	0.006	0	0	0	6
PL.56853	PD.6583	C	#4 ACSR	7.22Y	120.3	0.01	4.70	11.15	9	77	23	96	0.00	0.0	2.976	0.024	77	23	6	6
PL.65738	PL.56853	C	#4 ACSR	7.22Y	120.3	0.00	4.70	0.00	0	0	0	100	0.00	0.0	3.090	0.114	0	0	0	0
PL.42077	PL.56800	C	#4 ACSR	7.22Y	120.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	2.777	0.006	0	0	0	0
PD.6421	PL.42077	C	40QA	7.22Y	120.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	2.777	0.006	0	0	0	0
PL.42078	PD.6421	C	#4 ACSR	7.22Y	120.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	2.796	0.019	0	0	0	0
PL.42079	PL.42078	C	#4 ACSR	7.22Y	120.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	2.848	0.052	0	0	0	0
PL.58204	PL.56967	C	#4 ACSR	7.23Y	120.6	0.00	4.44	2.15	2	15	4	97	0.00	0.0	2.505	0.003	0	0	0	1
PD.8682	PL.58204	C	15T	7.23Y	120.6	0.00	4.44	2.15	0	15	4	97	0.00	0.0	2.505	0.003	0	0	0	1
PL.58456	PD.8682	C	#4 ACSR	7.23Y	120.6	0.01	4.44	2.15	2	15	4	97	0.00	0.0	2.612	0.107	15	4	1	1
PL.42698	PL.56407	A	6 A (CWC)	7.24Y	120.7	0.01	4.29	43.04	31	299	90	96	0.03	0.0	2.338	0.006	0	0	0	28
PD.6581	PL.42698	A	60QA	7.24Y	120.7	0.00	4.29	43.04	72	299	90	96	0.00	0.0	2.338	0.006	0	0	0	28
PL.56835	PD.6581	A	6 A (CWC)	7.24Y	120.6	0.09	4.38	43.04	31	299	90	96	0.20	0.1	2.384	0.046	7	2	2	28
PL.56836	PL.56835	A	6 A (CWC)	7.23Y	120.6	0.05	4.42	41.99	30	291	87	96	0.11	0.0	2.409	0.025	0	0	0	26
PL.56427	PL.56836	A	6 A (CWC)	7.23Y	120.6	0.01	4.43	7.96	6	55	17	96	0.00	0.0	2.439	0.030	55	17	5	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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.56802	PL.56836	A	6 A (CWC)	7.23Y	120.5	0.11	4.53	34.03	24	236	71	96	0.19	0.1	2.477	0.068	0	0	0	21
PL.56804	PL.56802	A	6 A (CWC)	7.23Y	120.4	0.03	4.56	23.86	17	165	49	96	0.03	0.0	2.504	0.027	32	10	2	10
PL.56803	PL.56804	A	6 A (CWC)	7.23Y	120.4	0.01	4.56	5.14	4	36	11	96	0.00	0.0	2.548	0.044	36	11	3	3
PL.56805	PL.56804	A	6 A (CWC)	7.23Y	120.4	0.02	4.58	14.11	10	98	29	96	0.02	0.0	2.541	0.037	14	4	1	5
PL.56806	PL.56805	A	#1/0 ACSR	7.23Y	120.4	0.00	4.58	12.06	5	83	25	96	0.00	0.0	2.544	0.003	0	0	0	4
PD.8250	PL.56806	A	20QA	7.23Y	120.4	0.00	4.58	12.06	60	83	25	96	0.00	0.0	2.544	0.003	0	0	0	4
PL.59340	PD.8250	A	#1/0 ACSR	7.22Y	120.4	0.01	4.59	12.06	5	83	25	96	0.00	0.0	2.578	0.033	16	5	1	4
PL.59342	PL.59340	A	1/0 AL URD	7.22Y	120.4	0.02	4.61	5.13	3	36	11	96	0.00	0.0	2.676	0.098	0	0	0	1
PL.59343	PL.59342	A	1/0 AL URD	7.22Y	120.4	0.00	4.61	5.13	3	36	11	96	0.00	0.0	2.678	0.002	0	0	0	1
PD.8761	PL.59343	A	100CodeSMo	7.22Y	120.4	0.00	4.61	5.13	0	36	11	96	0.00	0.0	2.678	0.002	0	0	0	1
PL.59344	PD.8761	A	1/0 AL URD	7.22Y	120.4	0.00	4.61	5.13	3	36	11	96	0.00	0.0	2.710	0.032	36	11	1	1
PL.59341	PL.59340	A	#1/0 ACSR	7.22Y	120.4	0.01	4.60	4.64	2	32	10	95	0.00	0.0	2.688	0.111	32	10	2	2
PL.59271	PL.56802	A	#1/0 ACSR	7.23Y	120.5	0.01	4.54	10.17	4	70	21	96	0.00	0.0	2.518	0.041	0	0	0	11
PL.59715	PL.59271	A	6 A (CWC)	7.23Y	120.4	0.01	4.55	10.17	7	70	21	96	0.01	0.0	2.545	0.026	15	4	1	11
PL.59716	PL.59715	A	6 A (CWC)	7.22Y	120.4	0.04	4.59	8.03	6	56	17	96	0.02	0.0	2.646	0.102	0	0	0	10
PL.56874	PL.59716	A	6 A (CWC)	7.22Y	120.4	0.01	4.60	8.03	6	56	17	96	0.00	0.0	2.675	0.029	15	5	3	10
PL.59713	PL.56874	A	6 A (CWC)	7.22Y	120.4	0.02	4.62	5.83	4	40	12	96	0.00	0.0	2.752	0.077	17	5	1	7
PL.59712	PL.59713	A	#1/0 ACSR	7.22Y	120.4	0.00	4.62	0.12	0	1	0	100	0.00	0.0	2.781	0.028	1	0	1	1
PL.59714	PL.59713	A	6 A (CWC)	7.22Y	120.4	0.00	4.62	0.98	1	7	2	96	0.00	0.0	2.849	0.097	7	2	3	3
PL.59711	PL.59713	A	6 A (CWC)	7.22Y	120.4	0.00	4.62	2.30	2	16	5	95	0.00	0.0	2.777	0.025	16	5	2	2
PL.56675	PL.56876	B	6 A (CWC)	7.26Y	121.0	0.00	3.98	5.41	4	38	11	96	0.00	0.0	2.122	0.006	0	0	0	3
PD.6580	PL.56675	B	75QA	7.26Y	121.0	0.00	3.98	5.41	7	38	11	96	0.00	0.0	2.122	0.006	0	0	0	3
PL.56674	PD.6580	B	6 A (CWC)	7.26Y	121.0	0.01	3.98	5.41	4	38	11	96	0.00	0.0	2.145	0.023	7	2	1	3
PL.56823	PL.56674	B	6 A (CWC)	7.26Y	121.0	0.02	4.00	4.42	3	31	9	96	0.00	0.0	2.267	0.122	12	4	1	2
PL.56824	PL.56823	B	6 A (CWC)	7.26Y	121.0	0.00	4.00	2.71	2	19	6	95	0.00	0.0	2.301	0.034	19	6	1	1
PL.41337	PL.56677	ABC	#1/0 ACSR	7.26Y	120.9	0.19	4.06	75.33	33	1571	478	96	2.10	0.1	2.186	0.139	0	0	0	159
PD.6814-A	PL.41337	ABC	Closed	7.26Y	120.9	0.00	4.06	75.33	0	1569	476	96	0.00	0.0	2.186	0.139	0	0	0	159
PD.6814-B	PD.6814-A	ABC	Closed	7.26Y	120.9	0.00	4.06	75.33	0	1569	476	96	0.00	0.0	2.186	0.139	0	0	0	159
PL.61160	PD.6814-B	ABC	#1/0 ACSR	7.26Y	120.9	0.01	4.07	75.33	33	1569	476	96	0.08	0.0	2.192	0.005	5	1	1	159
PL.61159	PL.61160	ABC	#1/0 ACSR	7.25Y	120.8	0.15	4.22	75.11	33	1565	475	96	1.68	0.1	2.304	0.112	2	0	1	158
PL.57181	PL.61159	ABC	#1/0 ACSR	7.23Y	120.5	0.27	4.50	75.04	33	1561	473	96	2.98	0.2	2.502	0.198	0	0	0	157

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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.42605	PL.57181	ABC	#1/0 ACSR	7.22Y	120.4	0.13	4.63	59.95	26	1245	376	96	1.15	0.1	2.623	0.121	0	0	0	125
PL.42604	PL.42605	ABC	#1/0 ACSR	7.22Y	120.3	0.05	4.68	56.15	24	1165	351	96	0.41	0.0	2.672	0.050	13	4	2	116
PL.42601	PL.42604	ABC	#1/0 ACSR	7.21Y	120.2	0.10	4.77	53.82	23	1116	336	96	0.75	0.1	2.770	0.098	7	2	2	111
PL.58202	PL.42601	C	6 A (CWC)	7.21Y	120.2	0.00	4.78	7.38	5	51	15	96	0.00	0.0	2.774	0.003	0	0	0	5
PD.8681	PL.58202	C	25T	7.21Y	120.2	0.00	4.78	7.38	0	51	15	96	0.00	0.0	2.774	0.003	0	0	0	5
PL.58203	PD.8681	C	6 A (CWC)	7.21Y	120.2	0.06	4.84	7.38	5	51	15	96	0.02	0.0	2.954	0.181	0	0	1	5
PL.56995	PL.58203	C	6 A (CWC)	7.21Y	120.1	0.02	4.86	7.38	5	51	15	96	0.01	0.0	3.027	0.073	4	1	2	4
PL.42599	PL.56995	C	6 A (CWC)	7.21Y	120.1	0.02	4.88	6.76	5	47	14	96	0.01	0.0	3.132	0.105	30	9	1	2
PL.41301	PL.42599	C	#1/0 ACSR	7.21Y	120.1	0.00	4.88	2.36	1	16	5	95	0.00	0.0	3.168	0.036	16	5	1	1
PL.42600	PL.42599	C	6 A (CWC)	7.21Y	120.1	0.00	4.88	0.00	0	0	0	100	0.00	0.0	3.161	0.028	0	0	0	0
PL.41492	PL.42601	ABC	#1/0 ACSR	7.21Y	120.2	0.07	4.84	39.19	17	812	244	96	0.40	0.0	2.870	0.099	24	7	3	83
PL.42205	PL.41492	C	#4 ACSR	7.21Y	120.2	0.00	4.85	12.57	10	87	26	96	0.00	0.0	2.875	0.006	0	0	0	9
PD.6732	PL.42205	C	50QA	7.21Y	120.2	0.00	4.85	12.57	25	87	26	96	0.00	0.0	2.875	0.006	0	0	0	9
PL.56993	PD.6732	C	#4 ACSR	7.21Y	120.1	0.01	4.86	12.57	10	87	26	96	0.01	0.0	2.902	0.027	32	10	2	9
PL.56994	PL.56993	C	#4 ACSR	7.21Y	120.1	0.02	4.88	7.96	6	55	16	96	0.01	0.0	2.949	0.047	0	0	0	7
PL.56992	PL.56994	C	#4 ACSR	7.21Y	120.1	0.02	4.89	7.96	6	55	16	96	0.01	0.0	2.998	0.049	0	0	0	7
PL.56997	PL.56992	C	#4 ACSR	7.21Y	120.1	0.01	4.90	4.82	4	33	10	96	0.00	0.0	3.041	0.043	5	1	1	6
PL.56999	PL.56997	C	#4 ACSR	7.21Y	120.1	0.00	4.91	2.67	2	18	6	95	0.00	0.0	3.064	0.022	0	0	0	3
PL.57001	PL.56999	C	#2 ACSR	7.21Y	120.1	0.00	4.91	0.02	0	0	0	100	0.00	0.0	3.139	0.076	0	0	1	1
PL.57000	PL.56999	C	#4 ACSR	7.21Y	120.1	0.00	4.91	2.64	2	18	5	96	0.00	0.0	3.092	0.028	0	0	0	2
PL.56996	PL.57000	C	6 A (CWC)	7.21Y	120.1	0.00	4.91	1.98	1	14	4	96	0.00	0.0	3.171	0.079	14	4	1	1
PL.56998	PL.57000	C	6 A (CWC)	7.21Y	120.1	0.00	4.91	0.66	0	5	1	98	0.00	0.0	3.139	0.048	5	1	1	1
PL.56991	PL.56998	C	6 A (CWC)	7.21Y	120.1	0.00	4.91	0.00	0	0	0	100	0.00	0.0	3.205	0.065	0	0	0	0
PL.59304	PL.56997	C	#4 ACSR	7.21Y	120.1	0.00	4.90	1.50	1	10	3	96	0.00	0.0	3.092	0.051	10	3	2	2
PL.56809	PL.56992	C	#2 ACSR	7.21Y	120.1	0.00	4.90	3.14	2	22	6	96	0.00	0.0	3.034	0.037	22	6	1	1
PL.42204	PL.41492	ABC	#1/0 ACSR	7.21Y	120.1	0.02	4.86	30.14	13	624	188	96	0.07	0.0	2.900	0.031	0	0	0	63
PL.61181	PL.42204	ABC	#1/0 ACSR	7.21Y	120.1	0.03	4.89	30.14	13	624	188	96	0.13	0.0	2.956	0.056	4	1	2	63
PL.61180	PL.61181	ABC	#1/0 ACSR	7.20Y	120.1	0.05	4.94	29.96	13	620	187	96	0.21	0.0	3.046	0.090	0	0	0	61
PL.42203	PL.61180	C	6 A (CWC)	7.20Y	120.1	0.00	4.94	5.88	4	41	12	96	0.00	0.0	3.052	0.006	0	0	0	2
PD.6731	PL.42203	C	50QA	7.20Y	120.1	0.00	4.94	5.88	12	41	12	96	0.00	0.0	3.052	0.006	0	0	0	2
PL.57004	PD.6731	C	6 A (CWC)	7.20Y	120.0	0.01	4.96	5.88	4	41	12	96	0.00	0.0	3.116	0.064	18	5	1	2

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Balanced Voltage Drop Report
Source: Keavy 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.57005	PL.57004	C	6 A (CWC)	7.20Y	120.0	0.00	4.96	0.00	0	0	0	100	0.00	0.0	3.144	0.028	0	0	0	0
PL.57006	PL.57004	C	6 A (CWC)	7.20Y	120.0	0.00	4.96	3.23	2	22	7	95	0.00	0.0	3.122	0.006	0	0	0	1
PD.6481	PL.57006	C	50QA	7.20Y	120.0	0.00	4.96	3.23	6	22	7	95	0.00	0.0	3.122	0.006	0	0	0	1
PL.57003	PD.6481	C	6 A (CWC)	7.20Y	120.0	0.00	4.96	3.23	2	22	7	95	0.00	0.0	3.145	0.023	22	7	1	1
PL.42199	PL.61180	ABC	#1/0 ACSR	7.20Y	120.0	0.04	4.99	27.68	12	573	172	96	0.18	0.0	3.135	0.089	0	0	0	58
PL.52014	PL.42199	ABC	#1/0 ACSR	7.20Y	120.0	0.03	5.01	27.37	12	566	170	96	0.11	0.0	3.189	0.054	0	0	0	57
PL.52015	PL.52014	C	#1/0 ACSR	7.20Y	120.0	0.00	5.01	34.60	15	238	72	96	0.00	0.0	3.191	0.002	0	0	0	29
PD.8004	PL.52015	C	30T	7.20Y	120.0	0.00	5.01	34.60	0	238	72	96	0.00	0.0	3.191	0.002	0	0	0	29
PL.52016	PD.8004	C	#1/0 ACSR	7.18Y	119.7	0.28	5.30	34.60	15	238	72	96	0.45	0.2	3.539	0.348	0	0	0	29
PL.57098	PL.52016	C	#2 ACSR	7.18Y	119.6	0.06	5.36	34.60	20	238	71	96	0.10	0.0	3.594	0.055	17	5	1	29
PL.57097	PL.57098	C	6 A (CWC)	7.18Y	119.6	0.00	5.36	0.00	0	0	0	100	0.00	0.0	3.611	0.017	0	0	0	0
PL.57152	PL.57098	C	6 A (CWC)	7.18Y	119.6	0.04	5.40	22.62	16	156	47	96	0.05	0.0	3.637	0.043	19	6	2	20
PL.57173	PL.57152	C	6 A (CWC)	7.17Y	119.6	0.04	5.44	19.87	14	137	41	96	0.04	0.0	3.683	0.046	0	0	1	18
PL.57172	PL.57173	C	6 A (CWC)	7.17Y	119.5	0.04	5.48	19.87	14	137	41	96	0.04	0.0	3.728	0.045	0	0	0	17
PL.57153	PL.57172	C	6 A (CWC)	7.17Y	119.5	0.04	5.52	19.47	14	134	40	96	0.04	0.0	3.775	0.047	24	7	5	16
PL.57150	PL.57153	C	#1/0 ACSR	7.17Y	119.5	0.02	5.54	13.19	6	91	27	96	0.01	0.0	3.826	0.051	0	0	0	9
PL.57148	PL.57150	C	#4 ACSR	7.17Y	119.4	0.02	5.56	11.59	9	80	24	96	0.01	0.0	3.876	0.050	14	4	1	8
PL.57147	PL.57148	C	#1/0 ACSR	7.17Y	119.4	0.00	5.56	4.58	2	31	9	96	0.00	0.0	3.892	0.016	12	4	1	5
PL.57144	PL.57147	C	#1/0 ACSR	7.17Y	119.4	0.00	5.56	2.79	1	19	6	95	0.00	0.0	3.928	0.036	19	6	4	4
PL.57145	PL.57148	C	#4 ACSR	7.17Y	119.4	0.00	5.56	0.00	0	0	0	100	0.00	0.0	3.979	0.103	0	0	0	0
PL.57146	PL.57148	C	6 A (CWC)	7.17Y	119.4	0.01	5.57	4.96	4	34	10	96	0.00	0.0	3.981	0.105	28	8	1	2
PL.52009	PL.57146	C	6 A (CWC)	7.17Y	119.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	4.022	0.041	0	0	0	0
PL.52010	PL.52009	C	6 A (CWC)	7.17Y	119.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	4.025	0.002	0	0	0	0
PL.52011	PL.52009	C	6 A (CWC)	7.17Y	119.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	4.024	0.002	0	0	0	0
PL.52012	PL.52011	C	6 A (CWC)	7.17Y	119.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	4.024	0.000	0	0	0	0
PD.8003	PL.52012	C	25QA	7.17Y	119.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	4.024	0.000	0	0	0	0
PL.52013	PD.8003	C	6 A (CWC)	7.17Y	119.4	0.00	5.57	0.00	0	0	0	100	0.00	0.0	4.128	0.104	0	0	0	0
PL.41680	PL.57146	C	#2 ACSR	7.17Y	119.4	0.00	5.58	0.90	1	6	2	95	0.00	0.0	4.071	0.090	6	2	1	1
PL.57149	PL.57150	C	#4 ACSR	7.17Y	119.5	0.00	5.54	1.60	1	11	3	96	0.00	0.0	3.915	0.089	11	3	1	1
PL.57143	PL.57153	C	#1/0 ACSR	7.17Y	119.5	0.00	5.52	2.85	1	20	6	96	0.00	0.0	3.808	0.033	20	6	2	2
PL.57151	PL.57172	C	#4 ACSR	7.17Y	119.5	0.00	5.48	0.40	0	3	1	95	0.00	0.0	3.827	0.099	3	1	1	1

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

Balanced Voltage Drop Report
Source: Keavy 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.57099	PL.57098	C	6 A (CWC)	7.18Y	119.6	0.02	5.38	9.53	7	66	20	96	0.01	0.0	3.652	0.058	8	2	1	8
PL.56911	PL.57099	C	6 A (CWC)	7.18Y	119.6	0.02	5.40	6.34	5	44	13	96	0.01	0.0	3.736	0.084	17	5	3	5
PL.56910	PL.56911	C	#4 ACSR	7.18Y	119.6	0.00	5.40	1.50	1	10	3	96	0.00	0.0	3.796	0.060	10	3	1	1
PL.56909	PL.56911	C	#4 ACSR	7.18Y	119.6	0.00	5.40	2.32	2	16	5	95	0.00	0.0	3.787	0.051	16	5	1	1
PL.57094	PL.57099	C	#1/0 ACSR	7.18Y	119.6	0.00	5.38	2.03	1	14	4	96	0.00	0.0	3.809	0.158	14	4	2	2
PL.52017	PL.52016	C	#1/0 ACSR	7.18Y	119.7	0.00	5.30	0.00	0	0	0	100	0.00	0.0	3.565	0.026	0	0	0	0
PL.57127	PL.52014	ABC	#1/0 ACSR	7.20Y	120.0	0.01	5.03	15.84	7	328	98	96	0.03	0.0	3.238	0.049	0	0	0	28
PL.57126	PL.57127	ABC	#1/0 ACSR	7.20Y	120.0	0.01	5.04	15.84	7	328	98	96	0.02	0.0	3.272	0.034	15	5	1	28
PL.57125	PL.57126	C	#2 ACSR	7.20Y	120.0	0.00	5.04	5.30	3	37	11	96	0.00	0.0	3.278	0.006	0	0	0	2
PD.6447	PL.57125	C	10QA	7.20Y	120.0	0.00	5.04	5.30	0	37	11	96	0.00	0.0	3.278	0.006	0	0	0	2
PL.57123	PD.6447	C	#2 ACSR	7.20Y	120.0	0.00	5.04	5.30	3	37	11	96	0.00	0.0	3.314	0.036	37	11	2	2
PL.57124	PL.57126	ABC	#1/0 ACSR	7.20Y	119.9	0.03	5.06	13.33	6	276	83	96	0.05	0.0	3.391	0.119	28	8	2	25
PL.56857	PL.57124	C	#4 ACSR	7.20Y	119.9	0.00	5.06	1.23	1	8	3	94	0.00	0.0	3.397	0.006	0	0	0	1
PD.6479	PL.56857	C	50QA	7.20Y	119.9	0.00	5.06	1.23	2	8	3	94	0.00	0.0	3.397	0.006	0	0	0	1
PL.56855	PD.6479	C	#4 ACSR	7.20Y	119.9	0.00	5.07	1.23	1	8	3	94	0.00	0.0	3.427	0.030	8	3	1	1
PL.56856	PL.57124	ABC	#1/0 ACSR	7.20Y	119.9	0.00	5.07	3.04	1	63	19	96	0.00	0.0	3.503	0.112	29	9	2	4
PL.56837	PL.56856	ABC	#1/0 ACSR	7.20Y	119.9	0.00	5.07	1.65	1	34	10	96	0.00	0.0	3.536	0.034	0	0	0	2
PL.42194	PL.56837	C	#2 ACSR	7.20Y	119.9	0.00	5.07	4.94	3	34	10	96	0.00	0.0	3.542	0.006	0	0	0	2
PD.6473	PL.42194	C	25QA	7.20Y	119.9	0.00	5.07	4.94	20	34	10	96	0.00	0.0	3.542	0.006	0	0	0	2
PL.56524	PD.6473	C	#2 ACSR	7.20Y	119.9	0.00	5.07	4.94	3	34	10	96	0.00	0.0	3.554	0.012	34	10	2	2
PL.41542	PL.56837	ABC	#1/0 ACSR	7.20Y	119.9	0.00	5.07	0.00	0	0	0	100	0.00	0.0	3.572	0.035	0	0	0	0
PD.6815-A	PL.41542	ABC	Open	7.20Y	119.9	0.00	5.07	0.00	0	0	0	100	0.00	0.0	3.572	0.035	0	0	0	0
PL.56859	PL.57124	A	#4 ACSR	7.19Y	119.9	0.05	5.12	17.29	13	119	36	96	0.05	0.0	3.462	0.071	11	3	2	13
PL.56518	PL.56859	A	#4 ACSR	7.19Y	119.8	0.05	5.17	15.68	12	108	32	96	0.04	0.0	3.540	0.078	24	7	3	11
PL.56517	PL.56518	A	#4 ACSR	7.19Y	119.8	0.00	5.17	0.11	0	1	0	100	0.00	0.0	3.634	0.093	1	0	1	1
PL.56519	PL.56518	A	#4 ACSR	7.19Y	119.8	0.01	5.17	12.03	9	83	25	96	0.00	0.0	3.554	0.013	14	4	1	7
PL.56516	PL.56519	A	#4 ACSR	7.19Y	119.8	0.02	5.20	10.05	8	69	21	96	0.01	0.0	3.623	0.069	30	9	2	6
PL.61133	PL.56516	A	#1/0 ACSR	7.19Y	119.8	0.00	5.20	1.74	1	12	4	95	0.00	0.0	3.627	0.004	0	0	0	1
PD.9261	PL.61133	A	10T	7.19Y	119.8	0.00	5.20	1.74	0	12	4	95	0.00	0.0	3.627	0.004	0	0	0	1
PL.61134	PD.9261	A	#1/0 ACSR	7.19Y	119.8	0.00	5.20	1.74	1	12	4	95	0.00	0.0	3.713	0.086	12	4	1	1
PL.56520	PL.56516	A	#4 ACSR	7.19Y	119.8	0.00	5.20	4.02	3	28	8	96	0.00	0.0	3.665	0.042	28	8	3	3

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Balanced Voltage Drop Report
Source: Keavy 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.56858	PL.57124	A	#4 ACSR	7.20Y	119.9	0.00	5.07	8.35	6	58	17	96	0.00	0.0	3.397	0.006	0	0	0	5
PD.6480	PL.56858	A	50QA	7.20Y	119.9	0.00	5.07	8.35	17	58	17	96	0.00	0.0	3.397	0.006	0	0	0	5
PL.42198	PD.6480	A	#4 ACSR	7.20Y	119.9	0.01	5.08	8.35	6	58	17	96	0.00	0.0	3.431	0.034	13	4	1	5
PL.56905	PL.42198	A	#4 ACSR	7.19Y	119.9	0.01	5.09	6.41	5	44	13	96	0.00	0.0	3.488	0.056	44	13	4	4
PL.42200	PL.42199	A	#4 ACSR	7.20Y	120.0	0.00	4.99	0.90	1	6	2	95	0.00	0.0	3.140	0.006	0	0	0	1
PD.6777	PL.42200	A	50QA	7.20Y	120.0	0.00	4.99	0.90	2	6	2	95	0.00	0.0	3.140	0.006	0	0	0	1
PL.42201	PD.6777	A	#4 ACSR	7.20Y	120.0	0.00	4.99	0.90	1	6	2	95	0.00	0.0	3.162	0.021	6	2	1	1
PL.42202	PL.61180	A	6 A (CWC)	7.20Y	120.1	0.00	4.94	0.97	1	7	2	96	0.00	0.0	3.052	0.006	0	0	0	1
PD.6691	PL.42202	A	50QA	7.20Y	120.1	0.00	4.94	0.97	2	7	2	96	0.00	0.0	3.052	0.006	0	0	0	1
PL.57002	PD.6691	A	6 A (CWC)	7.20Y	120.1	0.00	4.94	0.97	1	7	2	96	0.00	0.0	3.080	0.028	7	2	1	1
PL.42206	PL.41492	A	#4 ACSR	7.21Y	120.2	0.00	4.85	11.06	9	76	23	96	0.00	0.0	2.875	0.006	0	0	0	8
PD.6482	PL.42206	A	50QA	7.21Y	120.2	0.00	4.85	11.06	22	76	23	96	0.00	0.0	2.875	0.006	0	0	0	8
PL.56918	PD.6482	A	#4 ACSR	7.21Y	120.1	0.02	4.87	11.06	9	76	23	96	0.01	0.0	2.924	0.049	27	8	4	8
PL.56919	PL.56918	A	#4 ACSR	7.21Y	120.1	0.01	4.88	7.21	6	50	15	96	0.01	0.0	2.968	0.044	0	0	0	4
PL.56917	PL.56919	A	#4 ACSR	7.21Y	120.1	0.01	4.89	7.21	6	50	15	96	0.00	0.0	2.998	0.031	20	6	1	4
PL.56906	PL.56917	A	#4 ACSR	7.21Y	120.1	0.01	4.90	4.35	3	30	9	96	0.00	0.0	3.041	0.043	10	3	2	3
PL.56907	PL.56906	A	#4 ACSR	7.21Y	120.1	0.00	4.90	2.90	2	20	6	96	0.00	0.0	3.084	0.043	20	6	1	1
PL.41547	PL.42601	A	#4 ACSR	7.21Y	120.2	0.01	4.78	35.50	27	245	74	96	0.02	0.0	2.776	0.006	0	0	0	21
PD.6483	PL.41547	A	50QA	7.21Y	120.2	0.00	4.78	35.50	71	245	74	96	0.00	0.0	2.776	0.006	0	0	0	21
PL.41548	PD.6483	A	#4 ACSR	7.21Y	120.2	0.02	4.80	35.50	27	245	74	96	0.03	0.0	2.788	0.012	23	7	2	21
PL.57770	PL.41548	A	#4 ACSR	7.21Y	120.1	0.07	4.87	32.19	25	222	67	96	0.11	0.0	2.839	0.052	50	15	3	19
PL.57771	PL.57770	A	#4 ACSR	7.21Y	120.1	0.03	4.90	24.97	19	172	52	96	0.04	0.0	2.867	0.028	14	4	1	16
PL.42596	PL.57771	A	#4 ACSR	7.20Y	120.1	0.03	4.93	22.89	18	158	47	96	0.04	0.0	2.898	0.031	13	4	1	15
PL.41768	PL.42596	A	#4 ACSR	7.20Y	120.0	0.04	4.96	20.99	16	145	43	96	0.04	0.0	2.940	0.042	17	5	1	14
PL.56820	PL.41768	A	#4 ACSR	7.20Y	120.0	0.05	5.02	18.58	14	128	38	96	0.05	0.0	3.016	0.076	43	13	5	13
PL.56821	PL.56820	A	#4 ACSR	7.20Y	120.0	0.03	5.05	12.37	10	85	26	96	0.02	0.0	3.072	0.056	0	0	0	8
PL.56685	PL.56821	A	#4 ACSR	7.20Y	119.9	0.01	5.05	10.45	8	72	22	96	0.00	0.0	3.086	0.014	18	5	1	6
PL.56686	PL.56685	A	#4 ACSR	7.20Y	119.9	0.00	5.06	7.90	6	54	16	96	0.00	0.0	3.099	0.014	45	13	4	5
PL.56687	PL.56686	A	#1/0 ACSR	7.20Y	119.9	0.00	5.06	1.42	1	10	3	96	0.00	0.0	3.102	0.003	0	0	0	1
PD.8248	PL.56687	A	20QA	7.20Y	119.9	0.00	5.06	1.42	7	10	3	96	0.00	0.0	3.102	0.003	0	0	0	1
PL.56688	PD.8248	A	#1/0 ACSR	7.20Y	119.9	0.00	5.06	1.42	1	10	3	96	0.00	0.0	3.155	0.053	10	3	1	1

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Balanced Voltage Drop Report
Source: Keavy 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.42597	PL.56821	A	#4 ACSR	7.20Y	120.0	0.00	5.05	1.92	1	13	4	96	0.00	0.0	3.094	0.022	13	4	1	2
PL.42598	PL.42597	A	#4 ACSR	7.20Y	120.0	0.00	5.05	0.01	0	0	0	100	0.00	0.0	3.112	0.018	0	0	1	1
PL.56822	PL.56820	A	#4 ACSR	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	3.054	0.039	0	0	0	0
PL.42602	PL.42604	B	#4 ACSR	7.22Y	120.3	0.00	4.68	5.13	4	35	11	95	0.00	0.0	2.678	0.006	0	0	0	3
PD.6538	PL.42602	B	50QA	7.22Y	120.3	0.00	4.68	5.13	10	35	11	95	0.00	0.0	2.678	0.006	0	0	0	3
PL.42603	PD.6538	B	#4 ACSR	7.22Y	120.3	0.01	4.69	5.13	4	35	11	95	0.00	0.0	2.745	0.067	35	11	3	3
PL.42606	PL.42605	B	6 A (CWC)	7.22Y	120.4	0.02	4.65	11.39	8	79	24	96	0.01	0.0	2.660	0.038	12	4	2	9
PL.42607	PL.42606	B	6 A (CWC)	7.22Y	120.3	0.01	4.65	9.60	7	66	20	96	0.00	0.0	2.695	0.035	66	20	7	7
PL.58166	PL.57181	A	#4 ACSR	7.23Y	120.5	0.00	4.50	45.26	35	313	94	96	0.01	0.0	2.504	0.002	0	0	0	32
PD.8597	PL.58166	A	30T	7.23Y	120.5	0.00	4.50	45.26	0	313	94	96	0.00	0.0	2.504	0.002	0	0	0	32
PL.58167	PD.8597	A	#4 ACSR	7.23Y	120.4	0.08	4.58	45.26	35	313	94	96	0.20	0.1	2.545	0.041	0	0	0	32
PL.58165	PL.58167	A	#4 ACSR	7.22Y	120.3	0.16	4.74	45.26	35	313	94	96	0.39	0.1	2.623	0.079	0	0	0	32
PL.56873	PL.58165	A	#4 ACSR	7.21Y	120.1	0.16	4.90	42.40	33	293	88	96	0.35	0.1	2.706	0.083	8	2	1	30
PL.42608	PL.56873	A	#4 ACSR	7.20Y	120.0	0.12	5.02	41.19	32	284	85	96	0.27	0.1	2.774	0.068	0	0	0	29
PL.42609	PL.42608	A	#4 ACSR	7.20Y	120.0	0.00	5.03	2.09	2	14	4	96	0.00	0.0	2.844	0.070	14	4	1	1
PL.42610	PL.42609	A	#4 ACSR	7.20Y	120.0	0.00	5.03	0.00	0	0	0	100	0.00	0.0	2.892	0.047	0	0	0	0
PL.42623	PL.42608	A	#4 ACSR	7.20Y	120.0	0.03	5.05	18.35	14	127	38	96	0.03	0.0	2.807	0.034	0	0	0	17
PL.57134	PL.42623	A	#4 ACSR	7.20Y	120.0	0.00	5.05	10.18	8	70	21	96	0.00	0.0	2.808	0.000	0	0	0	10
PL.57135	PL.57134	A	#1/0 ACSR	7.20Y	119.9	0.00	5.05	3.81	2	26	8	96	0.00	0.0	2.831	0.023	11	3	1	3
PL.57136	PL.57135	A	#1/0 ACSR	7.20Y	119.9	0.00	5.05	1.04	0	7	2	96	0.00	0.0	2.847	0.016	7	2	1	1
PL.57142	PL.57135	A	1/0 AL URD	7.20Y	119.9	0.00	5.05	1.14	1	8	2	97	0.00	0.0	2.911	0.080	8	2	1	1
PL.57138	PL.57134	A	#4 ACSR	7.20Y	119.9	0.01	5.06	6.37	5	44	13	96	0.00	0.0	2.849	0.042	11	3	2	7
PL.57137	PL.57138	A	#4 ACSR	7.20Y	119.9	0.01	5.07	4.49	3	31	9	96	0.00	0.0	2.897	0.048	0	0	0	4
PL.57139	PL.57137	A	#4 ACSR	7.20Y	119.9	0.00	5.07	2.40	2	17	5	96	0.00	0.0	2.912	0.015	17	5	1	2
PL.57140	PL.57139	A	#4 ACSR	7.20Y	119.9	0.00	5.07	0.00	0	0	0	100	0.00	0.0	2.952	0.040	0	0	1	1
PL.42624	PL.57137	A	#4 ACSR	7.20Y	119.9	0.00	5.07	2.09	2	14	4	96	0.00	0.0	2.927	0.030	14	4	2	2
PL.57141	PL.57138	A	#1/0 ACSR	7.20Y	119.9	0.00	5.06	0.34	0	2	1	89	0.00	0.0	2.865	0.016	2	1	1	1
PL.56826	PL.42623	A	#4 ACSR	7.20Y	119.9	0.01	5.05	8.18	6	56	17	96	0.00	0.0	2.835	0.028	56	17	7	7
PL.42611	PL.42608	A	#4 ACSR	7.20Y	119.9	0.03	5.06	20.75	16	143	43	96	0.04	0.0	2.816	0.042	31	9	2	11
PL.42612	PL.42611	A	#4 ACSR	7.19Y	119.9	0.03	5.08	16.25	13	112	34	96	0.02	0.0	2.854	0.039	0	0	0	9
PL.42621	PL.42612	A	#4 ACSR	7.19Y	119.9	0.01	5.10	5.46	4	38	11	96	0.00	0.0	2.920	0.065	21	6	1	2

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Balanced Voltage Drop Report
Source: Keavy 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.42622	PL.42621	A	#4 ACSR	7.19Y	119.9	0.00	5.10	2.40	2	17	5	96	0.00	0.0	2.978	0.058	17	5	1	1
PL.42620	PL.42622	A	#4 ACSR	7.19Y	119.9	0.00	5.10	0.00	0	0	0	100	0.00	0.0	2.995	0.017	0	0	0	0
PL.42613	PL.42612	A	#4 ACSR	7.19Y	119.9	0.03	5.11	10.79	8	74	22	96	0.01	0.0	2.913	0.059	18	5	1	7
PL.42614	PL.42613	A	#4 ACSR	7.19Y	119.9	0.01	5.12	8.13	6	56	17	96	0.00	0.0	2.949	0.036	9	3	1	6
PL.42615	PL.42614	A	#4 ACSR	7.19Y	119.9	0.01	5.13	6.76	5	47	14	96	0.00	0.0	2.986	0.037	11	3	1	5
PL.42616	PL.42615	A	#4 ACSR	7.19Y	119.9	0.01	5.14	5.16	4	36	11	96	0.00	0.0	3.022	0.036	0	0	0	4
PL.42617	PL.42616	A	#4 ACSR	7.19Y	119.9	0.01	5.15	5.16	4	36	11	96	0.00	0.0	3.057	0.035	11	3	1	4
PL.42618	PL.42617	A	#4 ACSR	7.19Y	119.9	0.00	5.15	3.53	3	24	7	96	0.00	0.0	3.075	0.019	24	7	3	3
PL.42619	PL.42618	A	#4 ACSR	7.19Y	119.9	0.00	5.15	0.00	0	0	0	100	0.00	0.0	3.081	0.006	0	0	0	0
PL.56428	PL.58165	A	#4 ACSR	7.22Y	120.3	0.00	4.74	2.86	2	20	6	96	0.00	0.0	2.643	0.019	20	6	2	2
PL.42692	PL.62408	C	6 A (CWC)	7.29Y	121.5	0.00	3.51	7.63	5	53	16	96	0.00	0.0	1.946	0.006	0	0	0	6
PD.6419	PL.42692	C	75QA	7.29Y	121.5	0.00	3.51	7.63	10	53	16	96	0.00	0.0	1.946	0.006	0	0	0	6
PL.59369	PD.6419	C	6 A (CWC)	7.29Y	121.5	0.02	3.52	7.63	5	53	16	96	0.00	0.0	2.008	0.061	32	10	3	6
PL.59370	PL.59369	C	6 A (CWC)	7.29Y	121.5	0.00	3.52	3.05	2	21	6	96	0.00	0.0	2.063	0.055	21	6	3	3
PL.59270	PL.59370	C	6 A (CWC)	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	2.124	0.062	0	0	0	0
PL.56834	PL.59270	C	6 A (CWC)	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	2.182	0.058	0	0	0	0
PL.62407	PL.62405	ABC	336 MCM AC	7.30Y	121.7	0.14	3.32	70.46	14	1479	448	96	1.12	0.1	2.117	0.269	0	0	0	130
PL.62406	PL.62407	ABC	#2 ACSR	7.30Y	121.7	0.01	3.33	70.46	40	1477	446	96	0.12	0.0	2.122	0.006	0	0	0	130
PL.62945	PL.62406	ABC	336 MCM AC	7.30Y	121.6	0.02	3.35	70.46	14	1477	446	96	0.16	0.0	2.161	0.039	52	15	4	130
PL.62404	PL.62945	ABC	336 MCM AC	7.30Y	121.6	0.01	3.36	12.24	2	257	77	96	0.01	0.0	2.243	0.082	11	3	2	24
PL.62403	PL.62404	ABC	336 MCM AC	7.30Y	121.6	0.01	3.37	11.72	2	246	74	96	0.01	0.0	2.322	0.080	7	2	2	22
PL.42687	PL.62403	C	6 A (CWC)	7.30Y	121.6	0.00	3.37	14.18	10	99	30	96	0.00	0.0	2.328	0.006	0	0	0	7
PD.6460	PL.42687	C	25T	7.30Y	121.6	0.00	3.37	14.18	0	99	30	96	0.00	0.0	2.328	0.006	0	0	0	7
PL.42688	PD.6460	C	6 A (CWC)	7.29Y	121.6	0.06	3.43	14.18	10	99	30	96	0.04	0.0	2.418	0.091	0	0	0	7
PL.42689	PL.42688	C	6 A (CWC)	7.29Y	121.5	0.08	3.51	10.86	8	76	23	96	0.04	0.1	2.575	0.156	0	0	0	5
PL.56828	PL.42689	C	6 A (CWC)	7.29Y	121.5	0.01	3.52	9.20	7	64	19	96	0.00	0.0	2.606	0.031	22	7	1	4
PL.56829	PL.56828	C	6 A (CWC)	7.29Y	121.4	0.04	3.56	5.99	4	42	13	96	0.01	0.0	2.824	0.218	24	7	1	3
PL.42690	PL.56829	C	6 A (CWC)	7.29Y	121.4	0.00	3.56	2.48	2	17	5	96	0.00	0.0	2.862	0.038	17	5	2	2
PL.56827	PL.42689	C	#4 ACSR	7.29Y	121.5	0.00	3.51	1.66	1	12	3	97	0.00	0.0	2.639	0.064	12	3	1	1
PL.56661	PL.42688	C	6 A (CWC)	7.29Y	121.6	0.00	3.43	3.32	2	23	7	96	0.00	0.0	2.467	0.048	23	7	2	2
PL.42684	PL.62403	ABC	336 MCM AC	7.30Y	121.6	0.01	3.37	6.65	1	139	42	96	0.01	0.0	2.492	0.170	13	4	1	13

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

Balanced Voltage Drop Report
Source: Keavy 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.42685	PL.42684	C	6 A (CWC)	7.30Y	121.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	2.498	0.006	0	0	0	0
PD.6459	PL.42685	C	40QA	7.30Y	121.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	2.498	0.006	0	0	0	0
PL.42686	PD.6459	C	6 A (CWC)	7.30Y	121.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	2.525	0.028	0	0	0	0
PL.42683	PL.42684	ABC	336 MCM AC	7.30Y	121.6	0.01	3.38	6.02	1	126	38	96	0.01	0.0	2.663	0.171	0	0	0	12
PL.42677	PL.42683	ABC	#2 ACSR	7.30Y	121.6	0.00	3.38	3.34	2	70	21	96	0.00	0.0	2.702	0.038	8	3	1	7
PL.42676	PL.42677	ABC	336 MCM AC	7.30Y	121.6	0.00	3.39	2.94	1	62	18	96	0.00	0.0	2.783	0.081	3	1	1	6
PL.56845	PL.42676	ABC	#2 ACSR	7.30Y	121.6	0.00	3.39	2.79	2	59	18	96	0.00	0.0	2.807	0.024	28	9	2	5
PL.56843	PL.56845	ABC	336 MCM AC	7.30Y	121.6	0.00	3.39	1.20	0	25	8	95	0.00	0.0	2.869	0.062	18	5	1	2
PL.42674	PL.56843	ABC	336 MCM AC	7.30Y	121.6	0.00	3.39	0.37	0	8	2	97	0.00	0.0	2.947	0.078	0	0	0	1
PL.62939	PL.42674	ABC	336 MCM AC	7.30Y	121.6	0.00	3.39	0.00	0	0	0	100	0.00	0.0	2.974	0.027	0	0	0	0
PD.9453-A	PL.62939	ABC	Open	7.30Y	121.6	0.00	3.39	0.00	0	0	0	100	0.00	0.0	2.974	0.027	0	0	0	0
PL.41726	PL.42674	C	#2 ACSR	7.30Y	121.6	0.00	3.39	1.10	1	8	2	97	0.00	0.0	3.009	0.062	8	2	1	1
PL.56810	PL.56845	A	#2 ACSR	7.30Y	121.6	0.00	3.39	0.00	0	0	0	100	0.00	0.0	2.814	0.007	0	0	0	0
PD.8252	PL.56810	A	50QA	7.30Y	121.6	0.00	3.39	0.00	0	0	0	100	0.00	0.0	2.814	0.007	0	0	0	0
PL.56811	PD.8252	A	#2 ACSR	7.30Y	121.6	0.00	3.39	0.00	0	0	0	100	0.00	0.0	2.895	0.081	0	0	0	0
PL.56844	PL.56845	C	#4 ACSR	7.30Y	121.6	0.00	3.39	0.71	1	5	1	98	0.00	0.0	2.812	0.006	0	0	0	1
PD.6557	PL.56844	C	75QA	7.30Y	121.6	0.00	3.39	0.71	1	5	1	98	0.00	0.0	2.812	0.006	0	0	0	1
PL.42675	PD.6557	C	#4 ACSR	7.30Y	121.6	0.00	3.39	0.71	1	5	1	98	0.00	0.0	2.867	0.054	5	1	1	1
PL.62943	PL.42683	C	#4 ACSR	7.30Y	121.6	0.00	3.38	8.05	6	56	17	96	0.00	0.0	2.667	0.004	0	0	0	5
PD.9454	PL.62943	C	T	7.30Y	121.6	0.00	3.38	8.05	0	56	17	96	0.00	0.0	2.667	0.004	0	0	0	5
PL.62944	PD.9454	C	#4 ACSR	7.30Y	121.6	0.02	3.40	8.05	6	56	17	96	0.01	0.0	2.711	0.044	0	0	0	5
PL.42678	PL.62944	C	#4 ACSR	7.30Y	121.6	0.01	3.41	5.37	4	38	11	96	0.00	0.0	2.765	0.054	21	6	2	3
PL.42679	PL.42678	C	#4 ACSR	7.30Y	121.6	0.00	3.41	2.38	2	17	5	96	0.00	0.0	2.823	0.058	17	5	1	1
PL.42680	PL.42679	C	#4 ACSR	7.30Y	121.6	0.00	3.41	0.00	0	0	0	100	0.00	0.0	2.855	0.032	0	0	0	0
PL.42681	PL.62944	C	#1/0 ACSR	7.30Y	121.6	0.01	3.41	2.67	1	19	6	95	0.00	0.0	2.812	0.101	0	0	0	2
PL.41545	PL.42681	C	#1/0 ACSR	7.30Y	121.6	0.00	3.41	1.47	1	10	3	96	0.00	0.0	2.841	0.028	10	3	1	1
PL.42682	PL.42681	C	#1/0 ACSR	7.30Y	121.6	0.00	3.41	1.20	1	8	3	94	0.00	0.0	2.939	0.126	8	3	1	1
PL.62946	PL.62945	ABC	#1/0 ACSR	7.29Y	121.6	0.08	3.43	55.76	24	1169	353	96	0.64	0.1	2.239	0.078	0	0	0	102
PL.42691	PL.62946	ABC	#1/0 ACSR	7.29Y	121.6	0.01	3.44	55.76	24	1168	352	96	0.05	0.0	2.244	0.006	0	0	0	102
PD.6810	PL.42691	ABC	100L	7.29Y	121.6	0.00	3.44	55.76	56	1168	352	96	0.00	0.0	2.244	0.006	0	0	0	102
PL.59338	PD.6810	ABC	#1/0 ACSR	7.29Y	121.5	0.11	3.55	55.76	24	1168	352	96	0.92	0.1	2.357	0.112	12	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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.59339	PL.59338	ABC	#1/0 ACSR	7.28Y	121.4	0.06	3.61	55.20	24	1155	348	96	0.51	0.0	2.420	0.064	22	7	3	101
PL.42108	PL.59339	B	#1/0 ACSR	7.28Y	121.4	0.00	3.61	3.89	2	27	8	96	0.00	0.0	2.426	0.006	0	0	0	2
PD.6461	PL.42108	B	40QA	7.28Y	121.4	0.00	3.61	3.89	10	27	8	96	0.00	0.0	2.426	0.006	0	0	0	2
PL.42109	PD.6461	B	#1/0 ACSR	7.28Y	121.4	0.00	3.61	3.89	2	27	8	96	0.00	0.0	2.445	0.019	27	8	2	2
PL.41887	PL.59339	ABC	#1/0 ACSR	7.28Y	121.3	0.05	3.67	52.84	23	1106	333	96	0.40	0.0	2.478	0.057	71	21	7	96
PL.42110	PL.41887	A	6 A (CWC)	7.28Y	121.3	0.01	3.68	51.08	36	356	107	96	0.04	0.0	2.483	0.006	0	0	0	32
PD.6719	PL.42110	A	65QA	7.28Y	121.3	0.00	3.68	51.08	0	356	107	96	0.00	0.0	2.483	0.006	0	0	0	32
PL.56954	PD.6719	A	6 A (CWC)	7.27Y	121.2	0.12	3.80	51.08	36	356	107	96	0.31	0.1	2.533	0.050	7	2	1	32
PL.56955	PL.56954	A	6 A (CWC)	7.26Y	121.1	0.14	3.93	50.07	36	349	105	96	0.35	0.1	2.595	0.061	27	8	1	31
PL.56956	PL.56955	A	6 A (CWC)	7.26Y	121.0	0.11	4.04	46.24	33	322	97	96	0.25	0.1	2.648	0.053	39	12	2	30
PL.56957	PL.56956	A	6 A (CWC)	7.25Y	120.9	0.09	4.13	40.63	29	282	85	96	0.20	0.1	2.699	0.051	14	4	2	28
PL.42112	PL.56957	A	6 A (CWC)	7.25Y	120.8	0.08	4.21	38.59	28	268	80	96	0.16	0.1	2.742	0.043	0	0	0	26
PL.56895	PL.42112	A	6 A (CWC)	7.25Y	120.8	0.00	4.21	2.76	2	19	6	95	0.00	0.0	2.786	0.044	9	3	1	3
PL.56896	PL.56895	A	6 A (CWC)	7.25Y	120.8	0.00	4.21	1.53	1	11	3	96	0.00	0.0	2.835	0.050	11	3	2	2
PL.42113	PL.42112	A	6 A (CWC)	7.24Y	120.7	0.09	4.30	31.14	22	216	65	96	0.15	0.1	2.806	0.064	0	0	0	20
PL.42114	PL.42113	A	6 A (CWC)	7.24Y	120.6	0.05	4.36	30.26	22	210	63	96	0.09	0.0	2.845	0.039	0	0	0	19
PL.42115	PL.42114	A	6 A (CWC)	7.23Y	120.5	0.10	4.46	27.37	20	190	57	96	0.14	0.1	2.934	0.089	38	11	2	17
PL.42116	PL.42115	A	6 A (CWC)	7.23Y	120.5	0.04	4.49	19.77	14	137	41	96	0.04	0.0	2.976	0.042	0	0	0	13
PL.42222	PL.42116	A	#2 ACSR	7.23Y	120.5	0.00	4.49	1.51	1	10	3	96	0.00	0.0	3.021	0.045	10	3	1	1
PL.42117	PL.42116	A	6 A (CWC)	7.23Y	120.5	0.03	4.52	18.26	13	126	38	96	0.02	0.0	3.008	0.032	15	5	2	12
PL.41758	PL.42117	A	6 A (CWC)	7.23Y	120.5	0.02	4.53	16.04	11	111	33	96	0.01	0.0	3.031	0.023	21	6	1	10
PL.41759	PL.41758	A	6 A (CWC)	7.23Y	120.4	0.04	4.58	13.01	9	90	27	96	0.03	0.0	3.120	0.088	31	9	3	9
PL.41760	PL.41759	A	6 A (CWC)	7.22Y	120.4	0.02	4.59	8.49	6	59	18	96	0.01	0.0	3.175	0.055	29	9	2	6
PL.41761	PL.41760	A	6 A (CWC)	7.22Y	120.4	0.00	4.60	4.31	3	30	9	96	0.00	0.0	3.208	0.033	17	5	1	4
PL.59384	PL.41761	A	6 A (CWC)	7.22Y	120.4	0.00	4.60	1.86	1	13	4	96	0.00	0.0	3.254	0.047	13	4	3	3
PL.41762	PL.42115	A	#4 ACSR	7.23Y	120.5	0.00	4.46	2.11	2	15	4	97	0.00	0.0	3.005	0.072	9	3	1	2
PL.56655	PL.41762	A	#4 ACSR	7.23Y	120.5	0.00	4.46	0.84	1	6	2	95	0.00	0.0	3.100	0.095	6	2	1	1
PL.41773	PL.41762	A	#4 ACSR	7.23Y	120.5	0.00	4.46	0.00	0	0	0	100	0.00	0.0	3.062	0.057	0	0	0	0
PL.56812	PL.42114	A	#4 ACSR	7.24Y	120.6	0.00	4.36	2.90	2	20	6	96	0.00	0.0	2.880	0.035	20	6	2	2
PL.56813	PL.42113	A	#4 ACSR	7.24Y	120.7	0.00	4.30	0.87	1	6	2	95	0.00	0.0	2.844	0.038	6	2	1	1
PL.41886	PL.42112	A	6 A (CWC)	7.25Y	120.8	0.01	4.21	4.69	3	33	10	96	0.00	0.0	2.800	0.059	33	10	3	3

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

Balanced Voltage Drop Report
Source: Keavy 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.41345	PL.41887	ABC	#1/0 ACSR	7.28Y	121.3	0.04	3.71	32.43	14	678	204	96	0.19	0.0	2.547	0.070	35	10	2	57
PL.41346	PL.41345	ABC	#1/0 ACSR	7.28Y	121.3	0.03	3.73	30.76	13	643	193	96	0.11	0.0	2.592	0.045	0	0	0	55
PL.41643	PL.41346	ABC	#1/0 ACSR	7.27Y	121.2	0.03	3.76	30.76	13	643	193	96	0.14	0.0	2.655	0.062	96	29	4	55
PL.56891	PL.41643	ABC	#1/0 ACSR	7.27Y	121.2	0.02	3.79	26.15	11	546	164	96	0.09	0.0	2.707	0.052	52	15	5	51
PL.58419	PL.56891	C	6 A (CWC)	7.27Y	121.2	0.01	3.80	47.06	34	328	99	96	0.03	0.0	2.711	0.005	0	0	0	26
PD.8584	PL.58419	C	25T	7.27Y	121.2	0.00	3.80	47.06	0	328	98	96	0.00	0.0	2.711	0.005	0	0	0	26
PL.59312	PD.8584	C	6 A (CWC)	7.25Y	120.9	0.29	4.09	47.06	34	328	98	96	0.71	0.2	2.844	0.133	5	1	1	26
PL.59310	PL.59312	C	6 A (CWC)	7.25Y	120.9	0.05	4.14	43.50	31	302	91	96	0.12	0.0	2.871	0.027	0	0	0	24
PL.56871	PL.59310	C	#4 ACSR	7.25Y	120.8	0.03	4.16	10.70	8	74	22	96	0.01	0.0	2.948	0.077	45	13	2	5
PL.56872	PL.56871	C	#4 ACSR	7.25Y	120.8	0.01	4.17	4.27	3	30	9	96	0.00	0.0	3.001	0.053	0	0	0	3
PL.41764	PL.56872	C	#4 ACSR	7.25Y	120.8	0.00	4.18	2.89	2	20	6	96	0.00	0.0	3.065	0.064	20	6	2	2
PL.56514	PL.56872	C	#4 ACSR	7.25Y	120.8	0.00	4.18	1.38	1	10	3	96	0.00	0.0	3.032	0.031	10	3	1	1
PL.41765	PL.59310	C	6 A (CWC)	7.24Y	120.7	0.12	4.26	32.80	23	228	68	96	0.21	0.1	2.953	0.082	10	3	1	19
PL.56976	PL.41765	C	#4 ACSR	7.24Y	120.7	0.00	4.26	3.36	3	23	7	96	0.00	0.0	3.005	0.052	23	7	2	2
PL.63236	PL.41765	C	#1/0 ACSR	7.24Y	120.7	0.00	4.26	2.27	1	16	5	95	0.00	0.0	3.018	0.065	16	5	1	1
PL.56913	PL.41765	C	6 A (CWC)	7.24Y	120.7	0.05	4.31	25.80	18	179	54	96	0.07	0.0	2.998	0.045	17	5	2	15
PL.56914	PL.56913	C	#4 ACSR	7.24Y	120.6	0.05	4.37	18.82	14	131	39	96	0.05	0.0	3.068	0.069	16	5	2	9
PL.56978	PL.56914	C	#4 ACSR	7.24Y	120.6	0.05	4.41	15.00	12	104	31	96	0.04	0.0	3.139	0.072	0	0	0	6
PL.56980	PL.56978	C	#2 ACSR	7.23Y	120.6	0.00	4.42	10.04	6	70	21	96	0.00	0.0	3.155	0.015	0	0	0	4
PL.56981	PL.56980	C	#2 ACSR	7.23Y	120.6	0.01	4.42	5.43	3	38	11	96	0.00	0.0	3.186	0.031	0	0	0	2
PL.56983	PL.56981	C	1/0 AL URD	7.23Y	120.6	0.00	4.43	2.39	1	17	5	96	0.00	0.0	3.243	0.057	17	5	1	1
PL.56984	PL.56981	C	1/0 AL URD	7.23Y	120.6	0.00	4.43	3.04	2	21	6	96	0.00	0.0	3.221	0.034	21	6	1	1
PL.56982	PL.56980	C	#1/0 ACSR	7.23Y	120.6	0.01	4.43	4.61	2	32	10	95	0.00	0.0	3.218	0.063	0	0	0	2
PL.56985	PL.56982	C	1/0 AL URD	7.23Y	120.6	0.00	4.43	4.61	3	32	10	95	0.00	0.0	3.245	0.027	15	4	1	2
PL.56986	PL.56985	C	1/0 AL URD	7.23Y	120.6	0.00	4.43	2.51	1	17	5	96	0.00	0.0	3.315	0.070	17	5	1	1
PL.56979	PL.56978	C	#4 ACSR	7.23Y	120.6	0.01	4.42	4.96	4	34	10	96	0.00	0.0	3.184	0.045	19	6	1	2
PL.56515	PL.56979	C	#4 ACSR	7.23Y	120.6	0.00	4.42	2.22	2	15	5	95	0.00	0.0	3.240	0.056	15	5	1	1
PL.41828	PL.56914	C	#2 ACSR	7.24Y	120.6	0.00	4.37	1.46	1	10	3	96	0.00	0.0	3.073	0.006	0	0	0	1
PD.6579	PL.41828	C	25QA	7.24Y	120.6	0.00	4.37	1.46	6	10	3	96	0.00	0.0	3.073	0.006	0	0	0	1
PL.56842	PD.6579	C	#2 ACSR	7.24Y	120.6	0.00	4.37	1.46	1	10	3	96	0.00	0.0	3.087	0.014	10	3	1	1
PL.56912	PL.56913	C	#2 ACSR	7.24Y	120.7	0.01	4.33	4.50	3	31	9	96	0.00	0.0	3.102	0.103	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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.56987	PL.56912	C	#2 ACSR	7.24Y	120.7	0.00	4.33	0.73	0	5	2	93	0.00	0.0	3.148	0.047	5	2	1	1
PL.41452	PL.56912	C	1/0 AL URD	7.24Y	120.7	0.00	4.33	3.77	2	26	8	96	0.00	0.0	3.107	0.006	0	0	0	3
PD.6611	PL.41452	C	75QA	7.24Y	120.7	0.00	4.33	3.77	5	26	8	96	0.00	0.0	3.107	0.006	0	0	0	3
PL.41826	PD.6611	C	1/0 AL URD	7.24Y	120.7	0.00	4.33	3.77	2	26	8	96	0.00	0.0	3.115	0.007	0	0	0	3
PL.41827	PL.41826	C	1/0 AL URD	7.24Y	120.7	0.00	4.33	3.77	2	26	8	96	0.00	0.0	3.130	0.015	26	8	3	3
PL.59311	PL.59312	C	#1/0 ACSR	7.25Y	120.9	0.00	4.09	2.90	1	20	6	96	0.00	0.0	2.859	0.015	0	0	0	1
PL.56411	PL.59311	C	1/0 AL URD	7.25Y	120.9	0.00	4.09	2.90	2	20	6	96	0.00	0.0	2.871	0.012	20	6	1	1
PL.56892	PL.56891	A	6 A (CWC)	7.27Y	121.2	0.01	3.79	23.97	17	167	50	96	0.01	0.0	2.712	0.006	0	0	0	20
PD.6610	PL.56892	A	40QA	7.27Y	121.2	0.00	3.79	23.97	60	167	50	96	0.00	0.0	2.712	0.006	0	0	0	20
PL.62007	PD.6610	A	6 A (CWC)	7.27Y	121.1	0.11	3.91	23.97	17	167	50	96	0.14	0.1	2.819	0.107	10	3	1	20
PL.62008	PL.62007	A	6 A (CWC)	7.26Y	121.1	0.02	3.93	22.53	16	157	47	96	0.02	0.0	2.836	0.017	0	0	0	19
PL.62009	PL.62008	A	6 A (CWC)	7.26Y	121.0	0.07	4.00	22.53	16	157	47	96	0.09	0.1	2.907	0.071	0	0	0	19
PL.62005	PL.62009	A	#4 ACSR	7.26Y	121.0	0.02	4.02	6.44	5	45	13	96	0.01	0.0	2.972	0.065	8	2	1	4
PL.56869	PL.62005	A	#4 ACSR	7.26Y	121.0	0.01	4.03	5.35	4	37	11	96	0.00	0.0	3.046	0.074	29	9	2	3
PL.66149	PL.56869	A	#1/0 ACSR	7.26Y	121.0	0.00	4.03	1.19	1	8	2	97	0.00	0.0	3.110	0.064	0	0	0	1
PL.66150	PL.66149	A	#1/0 ACSR	7.26Y	121.0	0.00	4.03	1.19	1	8	2	97	0.00	0.0	3.158	0.048	8	2	1	1
PL.62006	PL.62009	A	#2 ACSR	7.26Y	121.0	0.00	4.00	4.13	2	29	9	96	0.00	0.0	2.938	0.031	29	9	2	2
PL.62004	PL.62009	A	6 A (CWC)	7.26Y	120.9	0.07	4.07	11.96	9	83	25	96	0.04	0.1	3.047	0.140	14	4	1	13
PL.56861	PL.62004	A	6 A (CWC)	7.25Y	120.9	0.03	4.10	8.13	6	57	17	96	0.01	0.0	3.121	0.074	0	0	0	11
PL.56868	PL.56861	A	#4 ACSR	7.25Y	120.9	0.00	4.10	0.00	0	0	0	100	0.00	0.0	3.199	0.078	0	0	0	0
PL.41763	PL.56861	A	6 A (CWC)	7.25Y	120.9	0.03	4.13	8.13	6	56	17	96	0.01	0.0	3.198	0.077	8	2	1	11
PL.41391	PL.41763	A	#2 ACSR	7.25Y	120.9	0.00	4.13	0.00	0	0	0	100	0.00	0.0	3.254	0.056	0	0	0	0
PL.56863	PL.41763	A	6 A (CWC)	7.25Y	120.8	0.03	4.15	7.04	5	49	15	96	0.01	0.0	3.286	0.088	3	1	1	10
PL.56915	PL.56863	A	#1/0 ACSR	7.25Y	120.8	0.00	4.16	1.20	1	8	2	97	0.00	0.0	3.394	0.108	3	1	1	2
PL.56916	PL.56915	A	#1/0 ACSR	7.25Y	120.8	0.00	4.16	0.79	0	5	2	93	0.00	0.0	3.493	0.099	5	2	1	1
PL.56864	PL.56863	A	6 A (CWC)	7.25Y	120.8	0.01	4.16	5.37	4	37	11	96	0.00	0.0	3.320	0.034	0	0	0	7
PL.56866	PL.56864	A	6 A (CWC)	7.25Y	120.8	0.01	4.17	5.37	4	37	11	96	0.00	0.0	3.369	0.049	4	1	1	7
PL.56867	PL.56866	A	6 A (CWC)	7.25Y	120.8	0.01	4.18	4.82	3	33	10	96	0.00	0.0	3.409	0.040	0	0	0	6
PL.56865	PL.56867	A	6 A (CWC)	7.25Y	120.8	0.01	4.19	4.82	3	33	10	96	0.00	0.0	3.448	0.039	15	4	2	6
PL.56862	PL.56865	A	6 A (CWC)	7.25Y	120.8	0.00	4.19	2.73	2	19	6	95	0.00	0.0	3.463	0.015	6	2	2	4
PL.57111	PL.56862	A	#2 ACSR	7.25Y	120.8	0.00	4.19	1.84	1	13	4	96	0.00	0.0	3.506	0.043	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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.57112	PL.57111	A	#2 ACSR	7.25Y	120.8	0.00	4.19	1.02	1	7	2	96	0.00	0.0	3.556	0.050	7	2	1	1
PL.57113	PL.57111	A	#1/0 ACSR	7.25Y	120.8	0.00	4.19	0.82	0	6	2	95	0.00	0.0	3.537	0.031	6	2	1	1
PL.56860	PL.62004	A	#4 ACSR	7.26Y	120.9	0.00	4.07	1.78	1	12	4	95	0.00	0.0	3.075	0.027	12	4	1	1
PL.62002	PL.62009	A	#4 ACSR	7.26Y	121.0	0.00	4.00	0.00	0	0	0	100	0.00	0.0	2.952	0.045	0	0	0	0
PL.62003	PL.62009	A	#2 ACSR	7.26Y	121.0	0.00	4.00	0.00	0	0	0	100	0.00	0.0	2.958	0.051	0	0	0	0
PL.41344	PL.41346	B	#4 ACSR	7.28Y	121.3	0.00	3.73	0.00	0	0	0	100	0.00	0.0	2.598	0.006	0	0	0	0
PD.6519	PL.41344	B	40QA	7.28Y	121.3	0.00	3.73	0.00	0	0	0	100	0.00	0.0	2.598	0.006	0	0	0	0
PL.41641	PD.6519	B	#4 ACSR	7.28Y	121.3	0.00	3.73	0.00	0	0	0	100	0.00	0.0	2.654	0.056	0	0	0	0
PL.41642	PL.41641	B	#4 ACSR	7.28Y	121.3	0.00	3.73	0.00	0	0	0	100	0.00	0.0	2.687	0.033	0	0	0	0
CP.103	PL.62407	ABC	Cap (300)	7.30Y	121.7	0.00	3.32	0.00	0	0	0	100	0.00	0.0	2.117	0.033	0	0	0	0
PL.62409	PL.62405	C	#1/0 ACSR	7.31Y	121.8	0.00	3.18	1.05	0	7	2	96	0.00	0.0	1.852	0.004	0	0	0	8
PD.8346	PL.62409	C	20QA	7.31Y	121.8	0.00	3.18	1.05	5	7	2	96	0.00	0.0	1.852	0.004	0	0	0	8
PL.57109	PD.8346	C	#1/0 ACSR	7.31Y	121.8	0.00	3.18	1.05	0	7	2	96	0.00	0.0	1.887	0.035	0	0	3	8
PL.57110	PL.57109	C	#1/0 ACSR	7.31Y	121.8	0.00	3.18	1.05	0	7	2	96	0.00	0.0	1.923	0.036	7	2	5	5
PL.57469	PL.57468	B	#2 ACSR	7.36Y	122.7	0.00	2.32	0.00	0	0	0	100	0.00	0.0	1.380	0.028	0	0	0	0
PL.57471	PL.57468	B	#2 ACSR	7.36Y	122.7	0.00	2.32	0.00	0	0	0	100	0.00	0.0	1.358	0.006	0	0	0	0
PD.8367	PL.57471	B	40QA	7.36Y	122.7	0.00	2.32	0.00	0	0	0	100	0.00	0.0	1.358	0.006	0	0	0	0
PL.57475	PD.8367	B	#2 ACSR	7.36Y	122.7	0.00	2.32	0.00	0	0	0	100	0.00	0.0	1.410	0.051	0	0	0	0
PL.57473	PL.57472	B	#2 ACSR	7.39Y	123.1	0.00	1.86	1.54	1	11	3	96	0.00	0.0	1.082	0.006	0	0	0	2
PD.8366	PL.57473	B	40QA	7.39Y	123.1	0.00	1.86	1.54	4	11	3	96	0.00	0.0	1.082	0.006	0	0	0	2
PL.57426	PD.8366	B	#2 ACSR	7.39Y	123.1	0.00	1.86	1.54	1	11	3	96	0.00	0.0	1.159	0.077	11	3	2	2
PL.57425	PL.57436	B	#2 ACSR	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	1.043	0.006	0	0	0	0
PD.8365	PL.57425	B	40QA	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	1.043	0.006	0	0	0	0
PL.57424	PD.8365	B	#2 ACSR	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	1.049	0.006	0	0	0	0
PL.64085	PL.64083	C	#1/0 ACSR	7.40Y	123.3	0.00	1.74	2.30	1	16	5	95	0.00	0.0	1.008	0.003	0	0	0	1
PD.9495	PL.64085	C	25T	7.40Y	123.3	0.00	1.74	2.30	0	16	5	95	0.00	0.0	1.008	0.003	0	0	0	1
PL.64086	PD.9495	C	#1/0 ACSR	7.40Y	123.3	0.00	1.74	2.30	1	16	5	95	0.00	0.0	1.033	0.025	0	0	0	1
PL.65709	PL.64086	C	1/0 AL URD	7.40Y	123.3	0.00	1.74	2.30	1	16	5	95	0.00	0.0	1.093	0.060	0	0	0	1
PL.65710	PL.65709	C	1/0 AL URD	7.40Y	123.3	0.00	1.74	2.30	1	16	5	95	0.00	0.0	1.133	0.040	16	5	1	1
PL.57420	PL.57466	C	#2 ACSR	7.44Y	124.0	0.00	1.02	1.75	1	12	4	95	0.00	0.0	0.589	0.006	0	0	0	1
PD.8364	PL.57420	C	40QA	7.44Y	124.0	0.00	1.02	1.75	4	12	4	95	0.00	0.0	0.589	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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.57419	PD.8364	C	#2 ACSR	7.44Y	124.0	0.00	1.02	1.75	1	12	4	95	0.00	0.0	0.600	0.011	0	0	0	1
PL.57445	PL.57419	C	#2 ACSR	7.44Y	124.0	0.00	1.02	1.75	1	12	4	95	0.00	0.0	0.663	0.062	0	0	0	1
PL.57439	PL.57445	C	#2 ACSR	7.44Y	124.0	0.00	1.02	1.75	1	12	4	95	0.00	0.0	0.709	0.046	0	0	0	1
PL.57442	PL.57439	C	#2 ACSR	7.44Y	124.0	0.00	1.03	1.75	1	12	4	95	0.00	0.0	0.759	0.050	0	0	0	1
PL.57421	PL.57442	C	#2 ACSR	7.44Y	124.0	0.00	1.03	1.75	1	12	4	95	0.00	0.0	0.795	0.036	12	4	1	1
PL.57461	PL.57437	C	#2 ACSR	7.47Y	124.4	0.00	0.57	0.75	0	5	2	93	0.00	0.0	0.336	0.006	0	0	0	1
PD.8363	PL.57461	C	40QA	7.47Y	124.4	0.00	0.57	0.75	2	5	2	93	0.00	0.0	0.336	0.006	0	0	0	1
PL.57462	PD.8363	C	#2 ACSR	7.47Y	124.4	0.00	0.58	0.75	0	5	2	93	0.00	0.0	0.398	0.062	5	2	1	1
PL.62870	PL.62869	ABC	336 MCM AC	7.50Y	125.0	0.00	0.04	0.00	0	0	0	100	0.00	0.0	0.024	0.001	0	0	0	0
PD.9437-B	PL.62870	ABC	Open	7.50Y	125.0	0.00	0.04	0.00	0	0	0	100	0.00	0.0	0.024	0.001	0	0	0	0
PL.62867	PL.62869	ABC	336 MCM AC	7.50Y	125.0	0.00	0.04	0.00	0	0	0	100	0.00	0.0	0.031	0.008	0	0	0	0
PL.59287	PL.62867	ABC	4/0 AL URD	7.50Y	125.0	0.00	0.04	0.00	0	0	0	100	0.00	0.0	0.037	0.006	0	0	0	0
PL.59416	Keavy 1	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	115.04	22	2464	791	95	0.04	0.0	0.004	0.004	0	0	0	243
PL.59417	PL.59416	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	115.04	22	2464	791	95	0.03	0.0	0.006	0.003	0	0	0	243

----- Feeder No. 1 (Rooks Branch F1) Beginning with Device PD.8767 -----

PD.8767	PL.59417	ABC	340VWE	7.50Y	125.0	0.00	0.01	115.04	0	2464	791	95	0.00	0.0	0.006	0.003	0	0	0	243
PL.59418	PD.8767	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	115.04	22	2464	791	95	0.10	0.0	0.015	0.009	0	0	0	243
PL.59415	PL.59418	ABC	336 MCM AC	7.50Y	125.0	0.01	0.03	115.04	22	2464	791	95	0.15	0.0	0.029	0.013	0	0	0	243
PL.59414	PL.59415	ABC	336 MCM AC	7.49Y	124.9	0.12	0.14	115.04	22	2464	790	95	1.44	0.1	0.158	0.129	0	0	0	243
PL.59412	PL.59414	C	6 A (CWC)	7.49Y	124.9	0.00	0.14	4.23	3	30	9	96	0.00	0.0	0.164	0.006	0	0	0	2
PD.6621	PL.59412	C	75QA	7.49Y	124.9	0.00	0.14	4.23	6	30	9	96	0.00	0.0	0.164	0.006	0	0	0	2
PL.41320	PD.6621	C	6 A (CWC)	7.49Y	124.9	0.00	0.15	4.23	3	30	9	96	0.00	0.0	0.180	0.017	16	5	1	2
PL.57444	PL.41320	C	6 A (CWC)	7.49Y	124.9	0.00	0.15	1.98	1	14	4	96	0.00	0.0	0.236	0.056	14	4	1	1
PL.59413	PL.59414	ABC	336 MCM AC	7.49Y	124.8	0.04	0.18	113.63	22	2432	778	95	0.46	0.0	0.200	0.042	0	0	0	241
PL.56659	PL.59413	ABC	336 MCM AC	7.47Y	124.5	0.28	0.46	112.67	22	2411	771	95	3.40	0.1	0.518	0.318	0	0	0	239
PL.56660	PL.56659	ABC	336 MCM AC	7.47Y	124.4	0.11	0.57	112.44	22	2403	761	95	1.34	0.1	0.644	0.125	0	0	0	238
PL.56969	PL.56660	ABC	336 MCM AC	7.45Y	124.2	0.20	0.77	112.44	22	2402	758	95	2.44	0.1	0.873	0.230	11	3	2	238
PL.56972	PL.56969	ABC	336 MCM AC	7.45Y	124.1	0.14	0.91	108.25	21	2309	726	95	1.65	0.1	1.042	0.169	15	5	1	227
PL.56880	PL.56972	ABC	336 MCM AC	7.44Y	124.0	0.05	0.95	107.54	21	2293	717	95	0.53	0.0	1.096	0.054	0	0	0	226

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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.42656	PL.56880	ABC	336 MCM AC	7.44Y	124.0	0.03	0.98	107.54	21	2292	716	95	0.37	0.0	1.134	0.038	7	2	1	226
PL.58197	PL.42656	A	#4 ACSR	7.44Y	124.0	0.00	0.98	5.17	4	37	11	96	0.00	0.0	1.137	0.003	0	0	0	3
PD.8608	PL.58197	A	25T	7.44Y	124.0	0.00	0.98	5.17	0	37	11	96	0.00	0.0	1.137	0.003	0	0	0	3
PL.58198	PD.8608	A	#4 ACSR	7.44Y	124.0	0.01	0.99	5.17	4	37	11	96	0.00	0.0	1.188	0.051	22	7	2	3
PL.42658	PL.58198	A	#4 ACSR	7.44Y	124.0	0.00	0.99	2.03	2	14	4	96	0.00	0.0	1.239	0.051	14	4	1	1
PL.42659	PL.42656	ABC	336 MCM AC	7.43Y	123.9	0.10	1.09	98.76	19	2104	659	95	1.12	0.1	1.273	0.139	36	11	1	211
PL.42660	PL.42659	ABC	336 MCM AC	7.43Y	123.8	0.07	1.16	97.09	19	2067	645	95	0.73	0.0	1.364	0.092	0	0	0	210
PL.56402	PL.42660	ABC	336 MCM AC	7.43Y	123.8	0.03	1.19	97.09	19	2066	644	95	0.30	0.0	1.402	0.038	0	0	1	210
PL.56403	PL.56402	C	6 A (CWC)	7.43Y	123.8	0.00	1.19	0.30	0	2	1	89	0.00	0.0	1.406	0.004	0	0	0	2
PD.8246	PL.56403	C	40QA	7.43Y	123.8	0.00	1.19	0.30	1	2	1	89	0.00	0.0	1.406	0.004	0	0	0	2
PL.56662	PD.8246	C	6 A (CWC)	7.43Y	123.8	0.00	1.19	0.30	0	2	1	89	0.00	0.0	1.474	0.068	2	1	2	2
PL.63225	PL.56402	ABC	336 MCM AC	7.43Y	123.8	0.01	1.20	96.99	19	2064	642	95	0.14	0.0	1.420	0.018	0	0	0	207
PL.63227	PL.63225	A	#1/0 ACSR	7.43Y	123.8	0.00	1.20	0.02	0	0	0	100	0.00	0.0	1.422	0.002	0	0	0	1
PD.9473	PL.63227	A	10T	7.43Y	123.8	0.00	1.20	0.02	0	0	0	100	0.00	0.0	1.422	0.002	0	0	0	1
PL.63228	PD.9473	A	#1/0 ACSR	7.43Y	123.8	0.00	1.20	0.02	0	0	0	100	0.00	0.0	1.457	0.034	0	0	0	1
PL.63229	PL.63228	A	#1/0 ACSR	7.43Y	123.8	0.00	1.20	0.02	0	0	0	100	0.00	0.0	1.491	0.034	0	0	0	1
PL.63230	PL.63229	A	#1/0 ACSR	7.43Y	123.8	0.00	1.20	0.02	0	0	0	100	0.00	0.0	1.520	0.029	0	0	0	1
PL.63231	PL.63230	A	#1/0 ACSR	7.43Y	123.8	0.00	1.20	0.02	0	0	0	100	0.00	0.0	1.575	0.055	0	0	1	1
PL.63226	PL.63225	ABC	336 MCM AC	7.43Y	123.8	0.01	1.21	96.98	19	2064	642	95	0.15	0.0	1.440	0.019	32	10	2	206
PL.56663	PL.63226	ABC	336 MCM AC	7.42Y	123.7	0.06	1.27	95.47	18	2031	632	95	0.57	0.0	1.515	0.076	24	7	3	204
PL.41044	PL.56663	C	#4 ACSR	7.42Y	123.7	0.00	1.27	7.77	6	55	17	96	0.00	0.0	1.521	0.006	0	0	0	3
PD.6747	PL.41044	C	75QA	7.42Y	123.7	0.00	1.27	7.77	10	55	17	96	0.00	0.0	1.521	0.006	0	0	0	3
PL.41045	PD.6747	C	#4 ACSR	7.42Y	123.7	0.01	1.28	7.77	6	55	17	96	0.00	0.0	1.578	0.057	55	17	3	3
PL.41046	PL.56663	A	#4 ACSR	7.42Y	123.7	0.00	1.27	5.25	4	37	11	96	0.00	0.0	1.521	0.006	0	0	0	3
PD.6707	PL.41046	A	25QA	7.42Y	123.7	0.00	1.27	5.25	21	37	11	96	0.00	0.0	1.521	0.006	0	0	0	3
PL.56887	PD.6707	A	#4 ACSR	7.42Y	123.7	0.01	1.28	5.25	4	37	11	96	0.00	0.0	1.562	0.041	16	5	1	3
PL.56888	PL.56887	A	#4 ACSR	7.42Y	123.7	0.01	1.28	2.97	2	21	6	96	0.00	0.0	1.602	0.040	0	0	0	2
PL.56890	PL.56888	A	#1/0 ACSR	7.42Y	123.7	0.00	1.28	0.05	0	0	0	100	0.00	0.0	1.711	0.109	0	0	1	1
PL.56889	PL.56888	A	#4 ACSR	7.42Y	123.7	0.01	1.29	2.92	2	21	6	96	0.00	0.0	1.751	0.149	21	6	1	1
PL.61170	PL.56663	ABC	336 MCM AC	7.42Y	123.7	0.06	1.33	89.99	17	1914	596	95	0.59	0.0	1.603	0.088	48	14	4	195
PL.61172	PL.61170	ABC	336 MCM AC	7.42Y	123.6	0.07	1.39	83.60	16	1777	553	95	0.60	0.0	1.706	0.102	9	3	1	186

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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.57175	PL.61172	ABC	336 MCM AC	7.41Y	123.6	0.02	1.42	83.18	16	1767	549	95	0.20	0.0	1.741	0.035	46	14	5	185
PL.41578	PL.57175	B	#2 ACSR	7.41Y	123.6	0.00	1.42	2.21	1	16	5	95	0.00	0.0	1.786	0.046	16	5	1	1
PL.42666	PL.57175	C	#4 ACSR	7.41Y	123.6	0.00	1.42	2.56	2	18	5	96	0.00	0.0	1.746	0.006	0	0	0	2
PD.6748	PL.42666	C	25T	7.41Y	123.6	0.00	1.42	2.56	0	18	5	96	0.00	0.0	1.746	0.006	0	0	0	2
PL.56908	PD.6748	C	#4 ACSR	7.41Y	123.6	0.00	1.42	2.56	2	18	5	96	0.00	0.0	1.828	0.082	18	5	2	2
PL.57177	PL.57175	ABC	336 MCM AC	7.41Y	123.5	0.04	1.46	79.42	15	1687	525	95	0.34	0.0	1.806	0.065	14	4	1	177
PL.57178	PL.57177	ABC	336 MCM AC	7.41Y	123.5	0.04	1.50	78.77	15	1673	520	95	0.37	0.0	1.876	0.070	4	1	1	176
PL.42668	PL.57178	ABC	336 MCM AC	7.41Y	123.5	0.04	1.54	74.58	14	1583	492	95	0.32	0.0	1.943	0.068	0	0	0	161
PL.42669	PL.42668	C	#2 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	1.949	0.006	0	0	0	0
PD.6708	PL.42669	C	60QA	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	1.949	0.006	0	0	0	0
PL.42670	PD.6708	C	#2 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	1.985	0.036	0	0	0	0
PL.56965	PL.42670	C	#2 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	2.009	0.024	0	0	0	0
PL.56966	PL.56965	C	#2 ACSR	7.41Y	123.5	0.00	1.54	0.00	0	0	0	100	0.00	0.0	2.024	0.015	0	0	0	0
PL.42671	PL.42668	ABC	336 MCM AC	7.41Y	123.4	0.03	1.57	74.58	14	1583	492	95	0.27	0.0	2.000	0.057	0	0	0	161
PL.42672	PL.42671	ABC	336 MCM AC	7.40Y	123.4	0.02	1.59	74.58	14	1583	491	96	0.17	0.0	2.036	0.036	9	3	2	161
PL.42673	PL.42672	ABC	336 MCM AC	7.40Y	123.4	0.04	1.63	74.18	14	1574	488	96	0.29	0.0	2.098	0.062	0	0	0	159
PL.62938	PL.42673	ABC	336 MCM AC	7.40Y	123.4	0.02	1.64	74.18	14	1574	487	96	0.14	0.0	2.129	0.031	0	0	0	159
PL.62940	PL.62938	ABC	#3/0 ACSR	7.40Y	123.3	0.04	1.69	74.18	25	1573	487	96	0.41	0.0	2.174	0.045	0	0	0	159
PL.56683	PL.62940	ABC	#3/0 ACSR	7.39Y	123.2	0.10	1.79	72.98	24	1547	479	96	0.94	0.1	2.280	0.106	12	4	1	157
PL.55471	PL.56683	ABC	#3/0 ACSR	7.37Y	122.9	0.31	2.09	72.41	24	1534	474	96	2.88	0.2	2.607	0.327	6	2	1	156
PL.55472	PL.55471	ABC	#3/0 ACSR	7.37Y	122.8	0.08	2.18	72.12	24	1525	468	96	0.78	0.1	2.697	0.090	7	2	1	155
PL.55473	PL.55472	C	#4 ACSR	7.37Y	122.8	0.00	2.18	5.31	4	38	11	96	0.00	0.0	2.703	0.006	0	0	0	2
PD.6550	PL.55473	C	60QA	7.37Y	122.8	0.00	2.18	5.31	9	38	11	96	0.00	0.0	2.703	0.006	0	0	0	2
PL.55474	PD.6550	C	#4 ACSR	7.37Y	122.8	0.01	2.18	5.31	4	38	11	96	0.00	0.0	2.767	0.064	38	11	2	2
PL.55746	PL.55472	ABC	#3/0 ACSR	7.36Y	122.7	0.15	2.33	70.04	23	1481	454	96	1.36	0.1	2.862	0.165	0	0	0	152
PL.55748	PL.55746	C	#1/0 ACSR	7.36Y	122.7	0.00	2.33	1.86	1	13	4	96	0.00	0.0	2.869	0.007	0	0	0	1
PD.8224	PL.55748	C	20QA	7.36Y	122.7	0.00	2.33	1.86	9	13	4	96	0.00	0.0	2.869	0.007	0	0	0	1
PL.55749	PD.8224	C	#1/0 ACSR	7.36Y	122.7	0.00	2.33	1.86	1	13	4	96	0.00	0.0	3.029	0.160	13	4	1	1
PL.55747	PL.55746	ABC	#3/0 ACSR	7.36Y	122.6	0.08	2.40	69.42	23	1466	448	96	0.71	0.0	2.951	0.088	0	0	0	151
PL.42118	PL.55747	ABC	#3/0 ACSR	7.36Y	122.6	0.01	2.41	69.42	23	1465	447	96	0.05	0.0	2.956	0.006	0	0	0	151
PD.6795	PL.42118	ABC	100L	7.36Y	122.6	0.00	2.41	69.42	69	1465	447	96	0.00	0.0	2.956	0.006	0	0	0	151

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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.42538	PD.6795	ABC	#3/0 ACSR	7.35Y	122.6	0.03	2.44	69.42	23	1465	447	96	0.31	0.0	2.994	0.038	0	0	0	151
PL.55475	PL.42538	C	#4 ACSR	7.35Y	122.6	0.00	2.45	1.82	1	13	4	96	0.00	0.0	3.093	0.099	13	4	1	1
PL.55479	PL.42538	ABC	#3/0 ACSR	7.35Y	122.5	0.08	2.52	66.30	22	1399	426	96	0.68	0.0	3.088	0.093	26	8	3	147
PL.55481	PL.55479	ABC	#3/0 ACSR	7.35Y	122.4	0.06	2.58	63.24	21	1334	406	96	0.49	0.0	3.160	0.072	0	0	0	142
PL.55438	PL.55481	ABC	#3/0 ACSR	7.34Y	122.4	0.04	2.62	63.24	21	1333	405	96	0.34	0.0	3.211	0.051	7	2	1	142
PL.55439	PL.55438	B	6 A (CWC)	7.34Y	122.4	0.01	2.63	37.88	27	266	80	96	0.02	0.0	3.216	0.006	0	0	0	39
PD.6591	PL.55439	B	60QA	7.34Y	122.4	0.00	2.63	37.88	63	266	80	96	0.00	0.0	3.216	0.006	0	0	0	39
PL.55440	PD.6591	B	6 A (CWC)	7.34Y	122.3	0.09	2.73	37.88	27	266	80	96	0.19	0.1	3.271	0.055	10	3	1	39
PL.59138	PL.55440	B	#1/0 ACSR	7.34Y	122.3	0.00	2.73	3.24	1	23	7	96	0.00	0.0	3.303	0.031	23	7	6	6
PL.55820	PL.55440	B	6 A (CWC)	7.33Y	122.2	0.11	2.84	33.20	24	233	70	96	0.19	0.1	3.349	0.078	21	6	2	32
PL.55821	PL.55820	B	6 A (CWC)	7.33Y	122.2	0.01	2.85	5.07	4	36	11	96	0.00	0.0	3.392	0.043	6	2	1	3
PL.55470	PL.55821	B	6 A (CWC)	7.33Y	122.1	0.00	2.85	4.21	3	30	9	96	0.00	0.0	3.427	0.035	30	9	2	2
PL.55823	PL.55820	B	6 A (CWC)	7.33Y	122.1	0.06	2.90	21.29	15	149	45	96	0.07	0.0	3.409	0.059	1	0	1	24
PL.55912	PL.55823	B	6 A (CWC)	7.32Y	122.1	0.03	2.93	21.21	15	149	45	96	0.03	0.0	3.439	0.030	14	4	1	23
PL.55911	PL.55912	B	6 A (CWC)	7.32Y	122.1	0.02	2.95	19.23	14	135	40	96	0.02	0.0	3.466	0.027	42	13	2	22
PL.55405	PL.55911	B	6 A (CWC)	7.32Y	122.0	0.04	2.98	13.23	9	93	28	96	0.02	0.0	3.527	0.061	11	3	1	20
PL.55797	PL.55405	B	6 A (CWC)	7.32Y	122.0	0.03	3.01	11.68	8	82	25	96	0.02	0.0	3.580	0.053	13	4	2	19
PL.55798	PL.55797	B	6 A (CWC)	7.32Y	122.0	0.02	3.02	9.76	7	68	21	96	0.01	0.0	3.620	0.039	10	3	1	17
PL.55799	PL.55798	B	#4 ACSR	7.32Y	122.0	0.00	3.02	0.00	0	0	0	100	0.00	0.0	3.669	0.049	0	0	0	0
PL.55468	PL.55799	B	#4 ACSR	7.32Y	122.0	0.00	3.02	0.00	0	0	0	100	0.00	0.0	3.701	0.032	0	0	0	0
PL.55800	PL.55798	B	6 A (CWC)	7.32Y	122.0	0.02	3.04	8.40	6	59	18	96	0.01	0.0	3.667	0.047	4	1	2	16
PL.55467	PL.55800	B	6 A (CWC)	7.32Y	122.0	0.00	3.05	6.78	5	48	14	96	0.00	0.0	3.683	0.016	0	0	0	7
PL.42833	PL.55467	B	6 A (CWC)	7.32Y	121.9	0.01	3.05	4.61	3	32	10	95	0.00	0.0	3.721	0.038	9	3	3	6
PL.55801	PL.42833	B	6 A (CWC)	7.32Y	121.9	0.00	3.06	3.31	2	23	7	96	0.00	0.0	3.747	0.026	23	7	3	3
PL.41347	PL.55467	B	#4 ACSR	7.32Y	122.0	0.00	3.05	2.17	2	15	5	95	0.00	0.0	3.694	0.012	15	5	1	1
PL.55466	PL.55800	B	#2 ACSR	7.32Y	122.0	0.00	3.04	1.11	1	8	2	97	0.00	0.0	3.681	0.014	8	2	7	7
PL.55822	PL.55820	B	#4 ACSR	7.33Y	122.1	0.01	2.85	3.89	3	27	8	96	0.00	0.0	3.458	0.108	12	4	1	3
PL.55469	PL.55822	B	#4 ACSR	7.33Y	122.1	0.00	2.86	2.12	2	15	4	97	0.00	0.0	3.540	0.082	15	4	2	2
PL.55442	PL.55438	ABC	#3/0 ACSR	7.34Y	122.4	0.02	2.64	50.27	17	1059	323	96	0.13	0.0	3.241	0.030	11	3	2	102
PL.55443	PL.55442	ABC	#3/0 ACSR	7.34Y	122.3	0.04	2.69	49.73	17	1048	319	96	0.29	0.0	3.311	0.070	5	2	1	100
PL.41809	PL.55443	A	#2 ACSR	7.34Y	122.3	0.00	2.69	1.45	1	10	3	96	0.00	0.0	3.317	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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PD.6749	PL.41809	A	20T	7.34Y	122.3	0.00	2.69	1.45	0	10	3	96	0.00	0.0	3.317	0.006	0	0	0	1
PL.55441	PD.6749	A	#2 ACSR	7.34Y	122.3	0.00	2.69	1.45	1	10	3	96	0.00	0.0	3.336	0.020	10	3	1	1
PL.55401	PL.55443	ABC	#3/0 ACSR	7.34Y	122.3	0.05	2.74	49.01	16	1032	314	96	0.35	0.0	3.398	0.087	11	3	2	98
PL.55402	PL.55401	C	6 A (CWC)	7.34Y	122.3	0.01	2.75	21.11	15	148	44	96	0.01	0.0	3.404	0.006	0	0	0	11
PD.6553	PL.55402	C	50QA	7.34Y	122.3	0.00	2.75	21.11	42	148	44	96	0.00	0.0	3.404	0.006	0	0	0	11
PL.55403	PD.6553	C	6 A (CWC)	7.33Y	122.2	0.05	2.79	21.11	15	148	44	96	0.05	0.0	3.455	0.051	16	5	1	11
PL.55404	PL.55403	C	6 A (CWC)	7.33Y	122.2	0.02	2.81	18.77	13	132	39	96	0.02	0.0	3.480	0.025	8	2	2	10
PL.55839	PL.55404	C	6 A (CWC)	7.33Y	122.1	0.04	2.86	17.68	13	124	37	96	0.04	0.0	3.539	0.059	28	9	2	8
PL.55840	PL.55839	C	6 A (CWC)	7.33Y	122.1	0.02	2.88	13.63	10	96	29	96	0.01	0.0	3.585	0.045	61	18	3	6
PL.55639	PL.55840	C	#1/0 ACSR	7.33Y	122.1	0.01	2.88	4.92	2	35	10	96	0.00	0.0	3.660	0.076	3	1	1	3
PL.55641	PL.55639	C	#1/0 ACSR	7.33Y	122.1	0.00	2.89	1.75	1	12	4	95	0.00	0.0	3.685	0.025	12	4	1	1
PL.55642	PL.55641	C	#1/0 ACSR	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	3.721	0.035	0	0	0	0
PL.55640	PL.55639	C	#1/0 ACSR	7.33Y	122.1	0.00	2.89	2.68	1	19	6	95	0.00	0.0	3.699	0.039	19	6	1	1
PL.55806	PL.55401	ABC	#3/0 ACSR	7.33Y	122.2	0.03	2.77	41.47	14	873	266	96	0.15	0.0	3.453	0.055	29	9	2	85
PL.55807	PL.55806	ABC	#3/0 ACSR	7.33Y	122.2	0.06	2.83	40.12	13	844	257	96	0.32	0.0	3.570	0.117	0	0	0	83
PL.42552	PL.55807	A	#2 ACSR	7.33Y	122.2	0.00	2.83	3.59	2	25	8	95	0.00	0.0	3.576	0.006	0	0	0	3
PD.6751	PL.42552	A	50QA	7.33Y	122.2	0.00	2.83	3.59	7	25	8	95	0.00	0.0	3.576	0.006	0	0	0	3
PL.55623	PD.6751	A	#2 ACSR	7.33Y	122.2	0.00	2.83	3.59	2	25	8	95	0.00	0.0	3.597	0.021	0	0	1	3
PL.55624	PL.55623	A	#2 ACSR	7.33Y	122.2	0.00	2.83	3.59	2	25	8	95	0.00	0.0	3.615	0.018	10	3	1	2
PL.55622	PL.55624	A	#2 ACSR	7.33Y	122.2	0.00	2.84	2.23	1	16	5	95	0.00	0.0	3.677	0.062	16	5	1	1
PL.42553	PL.55807	ABC	#3/0 ACSR	7.33Y	122.1	0.06	2.89	38.06	13	801	244	96	0.30	0.0	3.694	0.124	1	0	2	77
PL.42554	PL.42553	A	#4 ACSR	7.33Y	122.1	0.00	2.89	0.81	1	6	2	95	0.00	0.0	3.699	0.006	0	0	0	1
PD.6552	PL.42554	A	50QA	7.33Y	122.1	0.00	2.89	0.81	2	6	2	95	0.00	0.0	3.699	0.006	0	0	0	1
PL.42555	PD.6552	A	#4 ACSR	7.33Y	122.1	0.00	2.89	0.81	1	6	2	95	0.00	0.0	3.759	0.060	6	2	1	1
PL.42702	PL.42553	ABC	#3/0 ACSR	7.32Y	122.1	0.04	2.93	37.74	13	794	241	96	0.22	0.0	3.785	0.091	0	0	0	74
PL.42716	PL.42702	ABC	#3/0 ACSR	7.32Y	122.0	0.04	2.97	37.38	12	786	239	96	0.19	0.0	3.867	0.083	16	5	2	73
PL.42718	PL.42716	A	6 A (CWC)	7.32Y	122.0	0.00	2.98	9.91	7	70	21	96	0.00	0.0	3.873	0.006	0	0	0	8
PD.6668	PL.42718	A	50QA	7.32Y	122.0	0.00	2.98	9.91	20	70	21	96	0.00	0.0	3.873	0.006	0	0	0	8
PL.42719	PD.6668	A	6 A (CWC)	7.32Y	122.0	0.02	3.00	9.91	7	70	21	96	0.01	0.0	3.917	0.044	0	0	0	8
PL.41688	PL.42719	A	6 A (CWC)	7.32Y	122.0	0.00	3.00	2.39	2	17	5	96	0.00	0.0	3.944	0.027	17	5	1	1
PL.42720	PL.42719	A	6 A (CWC)	7.32Y	122.0	0.01	3.01	7.52	5	53	16	96	0.01	0.0	3.955	0.038	0	0	0	7

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

Balanced Voltage Drop Report
Source: Keavy 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.42723	PL.42720	A	#4 ACSR	7.32Y	122.0	0.01	3.02	2.80	2	20	6	96	0.00	0.0	4.058	0.103	20	6	1	2
PL.42724	PL.42723	A	#4 ACSR	7.32Y	122.0	0.00	3.02	0.00	0	0	0	100	0.00	0.0	4.087	0.029	0	0	1	1
PL.42721	PL.42720	A	6 A (CWC)	7.32Y	122.0	0.03	3.04	4.72	3	33	10	96	0.01	0.0	4.070	0.115	0	0	0	5
PL.42722	PL.42721	A	6 A (CWC)	7.32Y	122.0	0.01	3.05	4.72	3	33	10	96	0.00	0.0	4.128	0.058	0	0	0	5
PL.55745	PL.42722	A	6 A (CWC)	7.32Y	121.9	0.00	3.05	1.54	1	11	3	96	0.00	0.0	4.245	0.117	11	3	2	2
PL.55724	PL.42722	A	#2 ACSR	7.32Y	121.9	0.00	3.05	3.18	2	22	7	95	0.00	0.0	4.205	0.077	22	7	3	3
PL.57705	PL.42722	A	#4 ACSR	7.32Y	122.0	0.00	3.05	0.00	0	0	0	100	0.00	0.0	4.205	0.077	0	0	0	0
PL.41778	PL.42716	ABC	#3/0 ACSR	7.32Y	122.0	0.03	3.00	33.31	11	700	213	96	0.13	0.0	3.938	0.071	11	3	1	63
PL.55726	PL.41778	ABC	#3/0 ACSR	7.32Y	122.0	0.04	3.04	30.92	10	650	198	96	0.15	0.0	4.030	0.092	8	2	2	58
PL.62234	PL.55726	ABC	#3/0 ACSR	7.32Y	121.9	0.01	3.05	27.43	9	576	175	96	0.04	0.0	4.064	0.034	16	5	1	49
PL.62235	PL.62234	ABC	#3/0 ACSR	7.31Y	121.9	0.03	3.09	26.69	9	560	171	96	0.12	0.0	4.166	0.101	0	0	0	48
PL.55881	PL.62235	ABC	#3/0 ACSR	7.31Y	121.9	0.05	3.13	26.69	9	560	171	96	0.16	0.0	4.301	0.135	0	0	0	48
PL.55884	PL.55881	ABC	#3/0 ACSR	7.31Y	121.8	0.03	3.16	24.82	8	521	159	96	0.08	0.0	4.382	0.081	16	5	3	47
PL.55885	PL.55884	ABC	#3/0 ACSR	7.31Y	121.8	0.01	3.17	24.07	8	505	154	96	0.03	0.0	4.409	0.028	30	9	4	44
PL.55883	PL.55885	ABC	#3/0 ACSR	7.31Y	121.8	0.02	3.19	22.63	8	475	145	96	0.06	0.0	4.484	0.074	40	12	3	40
PL.64552	PL.55883	C	#1/0 ACSR	7.31Y	121.8	0.00	3.19	1.34	1	9	3	95	0.00	0.0	4.488	0.004	0	0	0	2
PD.9549	PL.64552	C	10T	7.31Y	121.8	0.00	3.19	1.34	0	9	3	95	0.00	0.0	4.488	0.004	0	0	0	2
PL.64553	PD.9549	C	#1/0 ACSR	7.31Y	121.8	0.00	3.19	1.34	1	9	3	95	0.00	0.0	4.536	0.048	9	3	1	2
PL.64550	PL.64553	C	#1/0 ACSR	7.31Y	121.8	0.00	3.19	0.10	0	1	0	100	0.00	0.0	4.600	0.064	0	0	0	1
PL.64551	PL.64550	C	#1/0 ACSR	7.31Y	121.8	0.00	3.19	0.10	0	1	0	100	0.00	0.0	4.630	0.030	1	0	1	1
PL.55875	PL.55883	ABC	#3/0 ACSR	7.31Y	121.8	0.02	3.21	18.74	6	393	120	96	0.06	0.0	4.581	0.097	0	0	0	32
PL.55868	PL.55875	ABC	#3/0 ACSR	7.31Y	121.8	0.00	3.21	18.74	6	393	120	96	0.01	0.0	4.592	0.011	20	6	1	32
PL.55874	PL.55868	ABC	#3/0 ACSR	7.31Y	121.8	0.01	3.23	15.44	5	324	99	96	0.02	0.0	4.653	0.060	14	4	1	27
PL.55873	PL.55874	ABC	#3/0 ACSR	7.31Y	121.8	0.01	3.24	13.83	5	290	89	96	0.02	0.0	4.717	0.065	19	6	3	23
PL.55861	PL.55873	ABC	#3/0 ACSR	7.31Y	121.8	0.00	3.24	12.92	4	271	83	96	0.01	0.0	4.746	0.028	42	13	3	20
PL.55860	PL.55861	ABC	#3/0 ACSR	7.31Y	121.8	0.01	3.25	7.46	2	156	49	95	0.01	0.0	4.814	0.069	12	4	1	12
PL.53245	PL.55860	ABC	#3/0 ACSR	7.30Y	121.7	0.01	3.26	6.14	2	128	41	95	0.01	0.0	4.967	0.153	0	0	0	10
PL.41595	PL.53245	ABC	#3/0 ACSR	7.30Y	121.7	0.00	3.26	2.11	1	44	13	96	0.00	0.0	5.098	0.131	0	0	0	3
PL.41439	PL.41595	ABC	#3/0 ACSR	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	5.152	0.054	0	0	0	0
PL.42100	PL.41439	C	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	5.158	0.006	0	0	0	0
PD.6788	PL.42100	C	50QA	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	5.158	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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.42101	PD.6788	C	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	5.203	0.045	0	0	0	0
PL.42102	PL.41595	ABC	#3/0 ACSR	7.30Y	121.7	0.00	3.27	2.11	1	44	13	96	0.00	0.0	5.180	0.081	0	0	0	3
PL.53238	PL.42102	ABC	#3/0 ACSR	7.30Y	121.7	0.00	3.27	1.70	1	36	11	96	0.00	0.0	5.271	0.091	36	11	2	2
PL.53239	PL.53238	ABC	#3/0 ACSR	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	5.286	0.015	0	0	0	0
PD.6817-B	PL.53239	ABC	Open	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	5.286	0.015	0	0	0	0
PL.42103	PL.42102	B	#4 ACSR	7.30Y	121.7	0.00	3.27	1.24	1	9	3	95	0.00	0.0	5.185	0.006	0	0	0	1
PD.6710	PL.42103	B	50QA	7.30Y	121.7	0.00	3.27	1.24	2	9	3	95	0.00	0.0	5.185	0.006	0	0	0	1
PL.55923	PD.6710	B	#4 ACSR	7.30Y	121.7	0.00	3.27	1.24	1	9	3	95	0.00	0.0	5.235	0.050	9	3	1	1
PL.55924	PL.55923	B	#4 ACSR	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	5.263	0.028	0	0	0	0
PL.53249	PL.53245	ABC	6 A (CWC)	7.30Y	121.7	0.02	3.28	4.03	3	84	27	95	0.01	0.0	5.089	0.122	8	2	1	7
PL.53250	PL.53249	ABC	6 A (CWC)	7.30Y	121.7	0.01	3.28	2.96	2	61	21	95	0.00	0.0	5.142	0.053	1	0	1	5
PL.55918	PL.53250	ABC	6 A (CWC)	7.30Y	121.7	0.02	3.31	2.92	2	61	20	95	0.01	0.0	5.340	0.198	0	0	0	4
PL.55919	PL.55918	A	#4 ACSR	7.30Y	121.7	0.00	3.31	0.00	0	0	0	100	0.00	0.0	5.346	0.006	0	0	0	0
PD.6654	PL.55919	A	50QA	7.30Y	121.7	0.00	3.31	0.00	0	0	0	100	0.00	0.0	5.346	0.006	0	0	0	0
PL.41676	PD.6654	A	#4 ACSR	7.30Y	121.7	0.00	3.31	0.00	0	0	0	100	0.00	0.0	5.508	0.163	0	0	0	0
PL.55920	PL.55918	ABC	6 A (CWC)	7.30Y	121.7	0.03	3.34	2.92	2	61	20	95	0.02	0.0	5.635	0.295	0	0	0	4
PL.64540	PL.55920	ABC	6 A (CWC)	7.30Y	121.6	0.01	3.35	2.92	2	61	20	95	0.01	0.0	5.730	0.095	0	0	0	4
PL.64541	PL.64540	ABC	6 A (CWC)	7.30Y	121.6	0.00	3.35	0.63	0	12	6	89	0.00	0.0	5.736	0.006	0	0	0	1
PD.6593	PL.64541	ABC	20QA	7.30Y	121.6	0.00	3.35	0.63	3	12	6	89	0.00	0.0	5.736	0.006	0	0	0	1
PL.42099	PD.6593	ABC	6 A (CWC)	7.30Y	121.6	0.00	3.35	0.63	0	12	6	89	0.00	0.0	5.804	0.068	0	0	0	1
PL.41438	PL.42099	ABC	350 MCM AL	7.30Y	121.6	0.00	3.35	0.63	0	12	6	89	0.00	0.0	5.939	0.135	12	6	1	1
PL.64542	PL.64540	A	#4 ACSR	7.30Y	121.6	0.01	3.36	6.88	5	48	14	96	0.00	0.0	5.779	0.048	23	7	1	3
PL.52944	PL.64542	A	#4 ACSR	7.30Y	121.6	0.00	3.37	3.53	3	25	7	96	0.00	0.0	5.807	0.029	0	0	0	2
PL.52907	PL.52944	A	#2 ACSR	7.30Y	121.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	5.847	0.040	0	0	0	0
PL.52905	PL.52944	A	#4 ACSR	7.30Y	121.6	0.00	3.37	3.53	3	25	7	96	0.00	0.0	5.856	0.049	18	5	1	2
PL.52906	PL.52905	A	#4 ACSR	7.30Y	121.6	0.00	3.37	0.93	1	6	2	95	0.00	0.0	5.935	0.079	6	2	1	1
PL.64543	PL.55920	C	#1/0 ACSR	7.30Y	121.7	0.00	3.34	0.00	0	0	0	100	0.00	0.0	5.637	0.002	0	0	0	0
PD.9548	PL.64543	C	30T	7.30Y	121.7	0.00	3.34	0.00	0	0	0	100	0.00	0.0	5.637	0.002	0	0	0	0
PL.64544	PD.9548	C	#1/0 ACSR	7.30Y	121.7	0.00	3.34	0.00	0	0	0	100	0.00	0.0	5.694	0.057	0	0	0	0
PL.55917	PL.55920	C	6 A (CWC)	7.30Y	121.7	0.00	3.34	0.00	0	0	0	100	0.00	0.0	5.721	0.086	0	0	0	0
PL.53251	PL.53249	A	#1/0 ACSR	7.30Y	121.7	0.00	3.28	2.03	1	14	4	96	0.00	0.0	5.092	0.003	0	0	0	1

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

Balanced Voltage Drop Report
Source: Keavy 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PD.8091	PL.53251	A	20QA	7.30Y	121.7	0.00	3.28	2.03	10	14	4	96	0.00	0.0	5.092	0.003	0	0	0	1
PL.53252	PD.8091	A	#1/0 ACSR	7.30Y	121.7	0.00	3.28	2.03	1	14	4	96	0.00	0.0	5.200	0.107	14	4	1	1
PL.53246	PL.55860	C	#2 ACSR	7.31Y	121.8	0.00	3.25	2.20	1	15	5	95	0.00	0.0	4.843	0.029	15	5	1	1
PL.61175	PL.55861	C	#1/0 ACSR	7.30Y	121.7	0.01	3.25	5.47	2	38	11	96	0.00	0.0	4.852	0.106	20	6	1	2
PL.61176	PL.61175	C	#1/0 ACSR	7.30Y	121.7	0.00	3.25	2.65	1	19	6	95	0.00	0.0	4.912	0.060	19	6	1	1
PL.55859	PL.55861	A	#2 ACSR	7.31Y	121.8	0.00	3.24	4.86	3	34	10	96	0.00	0.0	4.751	0.006	0	0	0	3
PD.6469	PL.55859	A	50QA	7.31Y	121.8	0.00	3.24	4.86	10	34	10	96	0.00	0.0	4.751	0.006	0	0	0	3
PL.53247	PD.6469	A	#2 ACSR	7.31Y	121.8	0.00	3.25	4.86	3	34	10	96	0.00	0.0	4.781	0.029	34	10	3	3
PL.53248	PL.53247	A	#2 ACSR	7.31Y	121.8	0.00	3.25	0.00	0	0	0	100	0.00	0.0	4.869	0.089	0	0	0	0
PL.55872	PL.55874	A	#4 ACSR	7.31Y	121.8	0.00	3.23	2.90	2	20	6	96	0.00	0.0	4.658	0.006	0	0	0	3
PD.6556	PL.55872	A	50QA	7.31Y	121.8	0.00	3.23	2.90	6	20	6	96	0.00	0.0	4.658	0.006	0	0	0	3
PL.55867	PD.6556	A	#4 ACSR	7.31Y	121.8	0.00	3.23	2.90	2	20	6	96	0.00	0.0	4.718	0.060	20	6	3	3
PL.55869	PL.55868	A	#1/0 ACSR	7.31Y	121.8	0.00	3.22	7.09	3	50	15	96	0.00	0.0	4.596	0.004	0	0	0	4
PD.8286	PL.55869	A	10QA	7.31Y	121.8	0.00	3.22	7.09	0	50	15	96	0.00	0.0	4.596	0.004	0	0	0	4
PL.55870	PD.8286	A	#1/0 ACSR	7.31Y	121.8	0.00	3.22	7.09	3	50	15	96	0.00	0.0	4.609	0.013	13	4	1	4
PL.55871	PL.55870	A	#1/0 ACSR	7.31Y	121.8	0.00	3.22	5.21	2	36	11	96	0.00	0.0	4.635	0.026	36	11	3	3
PL.55876	PL.55883	C	#4 ACSR	7.31Y	121.8	0.00	3.19	4.61	4	32	10	95	0.00	0.0	4.490	0.006	0	0	0	3
PD.6555	PL.55876	C	50QA	7.31Y	121.8	0.00	3.19	4.61	9	32	10	95	0.00	0.0	4.490	0.006	0	0	0	3
PL.55878	PD.6555	C	#1/0 ACSR	7.31Y	121.8	0.00	3.19	4.61	2	32	10	95	0.00	0.0	4.512	0.023	32	10	2	2
PL.55862	PD.6555	C	#4 ACSR	7.31Y	121.8	0.00	3.19	0.00	0	0	0	100	0.00	0.0	4.506	0.017	0	0	1	1
PL.55882	PL.55881	C	#4 ACSR	7.31Y	121.9	0.00	3.14	5.58	4	39	12	96	0.00	0.0	4.307	0.006	0	0	0	1
PD.6592	PL.55882	C	50QA	7.31Y	121.9	0.00	3.14	5.58	11	39	12	96	0.00	0.0	4.307	0.006	0	0	0	1
PL.55877	PD.6592	C	#4 ACSR	7.31Y	121.9	0.00	3.14	5.58	4	39	12	96	0.00	0.0	4.346	0.039	39	12	1	1
PL.41871	PL.62235	B	6 A (CWC)	7.31Y	121.9	0.00	3.09	0.00	0	0	0	100	0.00	0.0	4.171	0.006	0	0	0	0
PL.55727	PL.55726	C	6 A (CWC)	7.32Y	122.0	0.00	3.04	2.89	2	20	6	96	0.00	0.0	4.071	0.041	10	3	1	2
PL.42726	PL.55727	C	6 A (CWC)	7.32Y	122.0	0.00	3.05	1.46	1	10	3	96	0.00	0.0	4.154	0.082	10	3	1	1
PL.55728	PL.55726	A	6 A (CWC)	7.32Y	122.0	0.01	3.05	6.46	5	45	14	95	0.00	0.0	4.058	0.028	2	0	1	5
PL.55729	PL.55728	A	6 A (CWC)	7.32Y	121.9	0.01	3.05	6.22	4	44	13	96	0.00	0.0	4.082	0.024	20	6	1	4
PL.55725	PL.55729	A	#2 ACSR	7.32Y	121.9	0.00	3.06	3.36	2	24	7	96	0.00	0.0	4.094	0.012	10	3	2	3
PL.55731	PL.55725	A	#2 ACSR	7.32Y	121.9	0.00	3.06	1.99	1	14	4	96	0.00	0.0	4.111	0.018	14	4	1	1
PL.55730	PL.55729	A	6 A (CWC)	7.32Y	121.9	0.00	3.05	0.00	0	0	0	100	0.00	0.0	4.149	0.067	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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.42725	PL.41778	C	#4 ACSR	7.32Y	122.0	0.00	3.01	5.55	4	39	12	96	0.00	0.0	3.944	0.006	0	0	0	4
PD.6752	PL.42725	C	50QA	7.32Y	122.0	0.00	3.01	5.55	11	39	12	96	0.00	0.0	3.944	0.006	0	0	0	4
PL.55723	PD.6752	C	#4 ACSR	7.32Y	121.9	0.05	3.05	5.55	4	39	12	96	0.01	0.0	4.146	0.203	3	1	2	4
PL.55722	PL.55723	C	#4 ACSR	7.32Y	121.9	0.01	3.06	5.09	4	36	11	96	0.00	0.0	4.181	0.034	0	0	0	2
PL.55721	PL.55722	C	#4 ACSR	7.32Y	121.9	0.01	3.07	5.09	4	36	11	96	0.00	0.0	4.232	0.051	36	11	1	1
PL.55720	PL.55722	C	#1/0 ACSR	7.32Y	121.9	0.00	3.06	0.00	0	0	0	100	0.00	0.0	4.203	0.023	0	0	1	1
PL.42717	PL.42702	C	#1/0 ACSR	7.32Y	122.1	0.00	2.94	1.09	0	8	2	97	0.00	0.0	3.790	0.006	0	0	0	1
PD.6554	PL.42717	C	50QA	7.32Y	122.1	0.00	2.94	1.09	2	8	2	97	0.00	0.0	3.790	0.006	0	0	0	1
PL.55621	PD.6554	C	#1/0 ACSR	7.32Y	122.1	0.00	2.94	1.09	0	8	2	97	0.00	0.0	3.886	0.096	8	2	1	1
PL.42551	PL.55807	C	#1/0 ACSR	7.33Y	122.2	0.00	2.83	2.57	1	18	5	96	0.00	0.0	3.576	0.006	0	0	0	3
PD.6750	PL.42551	C	10QA	7.33Y	122.2	0.00	2.83	2.57	0	18	5	96	0.00	0.0	3.576	0.006	0	0	0	3
PL.55638	PD.6750	C	#1/0 ACSR	7.33Y	122.2	0.00	2.83	2.57	1	18	5	96	0.00	0.0	3.651	0.075	18	5	3	3
PL.55480	PL.55479	C	#4 ACSR	7.35Y	122.5	0.00	2.52	5.48	4	39	12	96	0.00	0.0	3.093	0.006	0	0	0	2
PD.6551	PL.55480	C	50QA	7.35Y	122.5	0.00	2.52	5.48	11	39	12	96	0.00	0.0	3.093	0.006	0	0	0	2
PL.55482	PD.6551	C	#4 ACSR	7.35Y	122.5	0.00	2.53	5.48	4	39	12	96	0.00	0.0	3.105	0.012	24	7	1	2
PL.55483	PL.55482	C	#4 ACSR	7.35Y	122.5	0.00	2.53	2.03	2	14	4	96	0.00	0.0	3.144	0.039	14	4	1	1
PL.42539	PL.42538	A	#1/0 ACSR	7.35Y	122.6	0.00	2.44	5.15	2	36	11	96	0.00	0.0	3.000	0.006	0	0	0	2
PD.6709	PL.42539	A	60QA	7.35Y	122.6	0.00	2.44	5.15	9	36	11	96	0.00	0.0	3.000	0.006	0	0	0	2
PL.42540	PD.6709	A	#1/0 ACSR	7.35Y	122.6	0.00	2.45	5.15	2	36	11	96	0.00	0.0	3.014	0.014	0	0	0	2
PL.55478	PL.42540	A	#1/0 ACSR	7.35Y	122.6	0.00	2.45	2.48	1	17	5	96	0.00	0.0	3.062	0.048	17	5	1	1
PL.55477	PL.42540	A	#1/0 ACSR	7.35Y	122.6	0.00	2.45	2.67	1	19	6	95	0.00	0.0	3.052	0.038	19	6	1	1
PL.42541	PL.42538	C	#4 ACSR	7.35Y	122.6	0.00	2.44	2.37	2	17	5	96	0.00	0.0	3.000	0.006	0	0	0	1
PD.6515	PL.42541	C	50QA	7.35Y	122.6	0.00	2.44	2.37	5	17	5	96	0.00	0.0	3.000	0.006	0	0	0	1
PL.55476	PD.6515	C	#4 ACSR	7.35Y	122.6	0.00	2.45	2.37	2	17	5	96	0.00	0.0	3.059	0.059	17	5	1	1
PL.56684	PL.62940	C	#1/0 ACSR	7.40Y	123.3	0.00	1.69	3.61	2	26	8	96	0.00	0.0	2.179	0.006	0	0	0	2
PD.8247	PL.56684	C	15QA	7.40Y	123.3	0.00	1.69	3.61	0	26	8	96	0.00	0.0	2.179	0.006	0	0	0	2
PL.59337	PD.8247	C	#1/0 ACSR	7.40Y	123.3	0.00	1.69	3.61	2	26	8	96	0.00	0.0	2.252	0.073	26	8	2	2
PL.62941	PL.62938	ABC	336 MCM AC	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	2.347	0.217	0	0	0	0
PL.62942	PL.62941	ABC	336 MCM AC	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	2.426	0.079	0	0	0	0
PD.9453-B	PL.62942	ABC	Open	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	2.426	0.079	0	0	0	0
PL.42667	PL.57178	C	6 A (CWC)	7.41Y	123.5	0.00	1.50	11.92	9	85	25	96	0.00	0.0	1.882	0.006	0	0	0	14

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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PD.6549	PL.42667	C	75QA	7.41Y	123.5	0.00	1.50	11.92	16	85	25	96	0.00	0.0	1.882	0.006	0	0	0	14
PL.61167	PD.6549	C	6 A (CWC)	7.41Y	123.5	0.04	1.54	11.92	9	85	25	96	0.02	0.0	1.963	0.082	17	5	4	14
PL.61168	PL.61167	C	6 A (CWC)	7.41Y	123.4	0.01	1.55	9.50	7	67	20	96	0.01	0.0	1.994	0.030	14	4	4	10
PL.57176	PL.61168	C	#1/0 ACSR	7.41Y	123.4	0.00	1.55	0.00	0	0	0	100	0.00	0.0	2.031	0.038	0	0	0	0
PL.63001	PL.61168	C	#1/0 ACSR	7.41Y	123.4	0.00	1.56	3.40	1	24	7	96	0.00	0.0	2.045	0.052	0	0	0	4
PL.63460	PL.63001	C	#1/0 ACSR	7.41Y	123.4	0.00	1.56	3.40	1	24	7	96	0.00	0.0	2.061	0.016	24	7	4	4
PL.41441	PL.61168	C	#2 ACSR	7.41Y	123.4	0.01	1.56	4.12	2	29	9	96	0.00	0.0	2.039	0.046	9	3	1	2
PL.63536	PL.41441	C	#2 ACSR	7.41Y	123.4	0.00	1.56	0.00	0	0	0	100	0.00	0.0	2.098	0.058	0	0	0	0
PL.62227	PL.41441	C	#1/0 ACSR	7.41Y	123.4	0.00	1.56	2.88	1	20	6	96	0.00	0.0	2.106	0.067	0	0	0	1
PL.62228	PL.62227	C	#1/0 ACSR	7.41Y	123.4	0.00	1.57	2.88	1	20	6	96	0.00	0.0	2.118	0.012	0	0	0	1
PD.9308	PL.62228	C	10T	7.41Y	123.4	0.00	1.57	2.88	0	20	6	96	0.00	0.0	2.118	0.012	0	0	0	1
PL.62229	PD.9308	C	#1/0 ACSR	7.41Y	123.4	0.00	1.57	2.88	1	20	6	96	0.00	0.0	2.249	0.131	20	6	1	1
PL.61171	PL.61170	A	#4 ACSR	7.42Y	123.7	0.00	1.33	12.43	10	88	26	96	0.00	0.0	1.609	0.006	0	0	0	5
PD.6667	PL.61171	A	75QA	7.42Y	123.7	0.00	1.33	12.43	17	88	26	96	0.00	0.0	1.609	0.006	0	0	0	5
PL.57324	PD.6667	A	#4 ACSR	7.42Y	123.6	0.02	1.35	12.43	10	88	26	96	0.01	0.0	1.651	0.042	24	7	2	5
PL.57327	PL.57324	A	#4 ACSR	7.42Y	123.6	0.01	1.36	5.59	4	40	12	96	0.00	0.0	1.686	0.035	17	5	1	2
PL.57328	PL.57327	A	#4 ACSR	7.42Y	123.6	0.00	1.36	3.23	2	23	7	96	0.00	0.0	1.695	0.009	23	7	1	1
PL.57325	PL.57324	A	#1/0 ACSR	7.42Y	123.6	0.00	1.36	3.53	2	25	8	95	0.00	0.0	1.712	0.060	25	8	1	1
PL.42657	PL.42656	A	6 A (CWC)	7.44Y	124.0	0.01	0.99	20.24	14	144	43	96	0.01	0.0	1.140	0.006	0	0	0	11
PD.6548	PL.42657	A	75QA	7.44Y	124.0	0.00	0.99	20.24	27	144	43	96	0.00	0.0	1.140	0.006	0	0	0	11
PL.42661	PD.6548	A	6 A (CWC)	7.44Y	123.9	0.08	1.07	20.24	14	144	43	96	0.08	0.1	1.222	0.082	0	0	0	11
PL.56832	PL.42661	A	#4 ACSR	7.43Y	123.9	0.06	1.13	16.23	12	116	35	96	0.05	0.0	1.315	0.093	16	5	1	8
PL.56833	PL.56832	A	#4 ACSR	7.43Y	123.9	0.01	1.14	13.99	11	100	30	96	0.01	0.0	1.343	0.029	46	14	3	7
PL.56830	PL.56833	A	#4 ACSR	7.43Y	123.8	0.01	1.15	7.53	6	54	16	96	0.00	0.0	1.402	0.059	42	13	3	4
PL.56831	PL.56830	A	#4 ACSR	7.43Y	123.8	0.00	1.16	1.64	1	12	4	95	0.00	0.0	1.497	0.094	12	4	1	1
PL.42662	PL.42661	A	6 A (CWC)	7.43Y	123.9	0.03	1.09	4.01	3	29	9	96	0.01	0.0	1.395	0.173	9	3	1	3
PL.42663	PL.42662	A	6 A (CWC)	7.43Y	123.9	0.01	1.11	2.74	2	19	6	95	0.00	0.0	1.510	0.115	0	0	0	2
PL.42664	PL.42663	A	6 A (CWC)	7.43Y	123.9	0.01	1.11	2.74	2	19	6	95	0.00	0.0	1.567	0.057	2	1	1	2
PL.42665	PL.42664	A	6 A (CWC)	7.43Y	123.9	0.00	1.12	2.49	2	18	5	96	0.00	0.0	1.618	0.051	18	5	1	1
PL.56971	PL.56969	C	#2 ACSR	7.45Y	124.2	0.00	0.77	6.35	4	45	14	95	0.00	0.0	0.879	0.006	0	0	0	3
PD.6516	PL.56971	C	40QA	7.45Y	124.2	0.00	0.77	6.35	16	45	14	95	0.00	0.0	0.879	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 1

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																KW	KVAR	Cons On	Cons Thru	
PL.56973	PD.6516	C	#2 ACSR	7.45Y	124.2	0.01	0.77	6.35	4	45	14	95	0.00	0.0	0.920	0.041	8	2	1	3
PL.56974	PL.56973	C	#2 ACSR	7.45Y	124.2	0.01	0.79	5.24	3	37	11	96	0.00	0.0	0.992	0.072	0	0	0	2
PL.42655	PL.56974	C	#2 ACSR	7.45Y	124.2	0.00	0.79	2.75	2	20	6	96	0.00	0.0	1.064	0.072	20	6	1	1
PL.41446	PL.56974	C	#2 ACSR	7.45Y	124.2	0.00	0.79	2.49	1	18	5	96	0.00	0.0	1.081	0.089	18	5	1	1
PL.56970	PL.56969	C	#4 ACSR	7.45Y	124.2	0.00	0.77	4.63	4	33	10	96	0.00	0.0	0.879	0.006	0	0	0	6
PD.6713	PL.56970	C	75QA	7.45Y	124.2	0.00	0.77	4.63	6	33	10	96	0.00	0.0	0.879	0.006	0	0	0	6
PL.42652	PD.6713	C	#4 ACSR	7.45Y	124.2	0.02	0.79	4.63	4	33	10	96	0.00	0.0	0.979	0.101	8	2	3	6
PL.42653	PL.42652	C	#4 ACSR	7.45Y	124.2	0.01	0.80	3.46	3	25	7	96	0.00	0.0	1.068	0.089	15	5	2	3
PL.42654	PL.42653	C	#4 ACSR	7.45Y	124.2	0.00	0.80	1.30	1	9	3	95	0.00	0.0	1.100	0.032	9	3	1	1
PL.56657	PL.56659	A	6 A (CWC)	7.47Y	124.5	0.00	0.46	0.68	0	5	1	98	0.00	0.0	0.597	0.079	5	1	1	1
PL.56658	PL.59413	C	6 A (CWC)	7.49Y	124.8	0.00	0.18	2.87	2	21	6	96	0.00	0.0	0.206	0.006	0	0	0	2
PD.6449	PL.56658	C	75QA	7.49Y	124.8	0.00	0.18	2.87	4	21	6	96	0.00	0.0	0.206	0.006	0	0	0	2
PL.42650	PD.6449	C	6 A (CWC)	7.49Y	124.8	0.00	0.18	2.87	2	21	6	96	0.00	0.0	0.260	0.054	21	6	2	2
PL.62864	PL.59418	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	0.026	0.010	0	0	0	0
PD.9437-A	PL.62864	ABC	Open	7.50Y	125.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	0.026	0.010	0	0	0	0

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total			
KW	7037	0	0	0	0	0	150	0.00	7187	Lowest Voltage = 119.42 on Element PL.41680		
KVAR	2109	0	0	0	0	0	265		2374	Max Accm VoltD = 5.58 on Element PL.41680		
										Max Elem VoltD = 0.33 on Element PL.62408		