

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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
East Bernstadt		ABC	SRC-East B	7.50Y	125.0	0.00	0.00	977.62	0	20890	6888	95	0.00	0.0	0.000	0.000	0	0	0	2116
PL.62312	East Bernstadt	ABC	336 MCM AC	7.50Y	125.0	0.02	0.02	344.18	66	7389	2317	95	0.60	0.0	0.006	0.006	0	0	0	778
PL.62313	PL.62312	ABC	336 MCM AC	7.50Y	125.0	0.01	0.03	344.18	66	7389	2315	95	0.43	0.0	0.010	0.004	0	0	0	778
----- Feeder No. 1 (Hazel Green F1) Beginning with Device PD.9315 -----																				
PD.9315	PL.62313	ABC	480VWE	7.50Y	125.0	0.00	0.03	344.18	0	7388	2314	95	0.00	0.0	0.010	0.004	0	0	0	778
PL.62308	PD.9315	ABC	336 MCM AC	7.48Y	124.7	0.26	0.29	344.18	66	7388	2314	95	9.82	0.1	0.109	0.099	14	3	1	778
PL.35116	PL.62308	ABC	336 MCM AC	7.46Y	124.3	0.41	0.70	343.28	66	7359	2287	95	15.44	0.2	0.265	0.156	13	3	1	776
PL.35357	PL.35116	ABC	336 MCM AC	7.45Y	124.2	0.10	0.80	342.69	66	7331	2248	96	3.67	0.1	0.302	0.037	0	0	0	775
PL.35358	PL.35357	A	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.50	0	4	1	97	0.00	0.0	0.302	0.000	0	0	0	1
PD.5176	PL.35358	A	75QA	7.45Y	124.2	0.00	0.80	0.50	1	4	1	97	0.00	0.0	0.302	0.000	0	0	0	1
PL.52478	PD.5176	A	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.50	0	4	1	97	0.00	0.0	0.350	0.048	4	1	1	1
PL.33914	PL.35357	ABC	336 MCM AC	7.42Y	123.7	0.53	1.32	342.53	66	7323	2238	96	19.88	0.3	0.503	0.201	0	0	0	774
PL.36105	PL.33914	C	#4 ACSR	7.42Y	123.7	0.00	1.32	0.40	0	3	1	95	0.00	0.0	0.504	0.001	0	0	0	1
PD.5177	PL.36105	C	25T	7.42Y	123.7	0.00	1.32	0.40	0	3	1	95	0.00	0.0	0.504	0.001	0	0	0	1
PL.36108	PD.5177	C	#4 ACSR	7.42Y	123.7	0.00	1.33	0.40	0	3	1	95	0.00	0.0	0.549	0.045	3	1	1	1
PL.36110	PL.33914	ABC	336 MCM AC	7.41Y	123.5	0.16	1.49	342.39	66	7300	2191	96	6.15	0.1	0.565	0.062	15	3	1	773
PL.36111	PL.36110	ABC	336 MCM AC	7.40Y	123.3	0.19	1.67	341.70	66	7279	2173	96	7.06	0.1	0.637	0.072	0	0	0	772
PL.33901	PL.36111	C	#2 ACSR	7.40Y	123.3	0.00	1.67	0.00	0	0	0	100	0.00	0.0	0.727	0.090	0	0	0	0
PL.66244	PL.36111	ABC	336 MCM AC	7.39Y	123.2	0.16	1.83	341.70	66	7272	2157	96	6.01	0.1	0.698	0.061	0	0	1	772
PL.66245	PL.66244	ABC	336 MCM AC	7.39Y	123.1	0.05	1.88	341.69	66	7266	2143	96	1.98	0.0	0.718	0.020	0	0	0	771
PL.36117	PL.66245	ABC	336 MCM AC	7.37Y	122.9	0.23	2.12	339.18	65	7210	2126	96	8.77	0.1	0.809	0.090	0	0	0	764
PL.36118	PL.36117	C	6 A (CWC)	7.37Y	122.9	0.00	2.12	0.70	1	5	1	98	0.00	0.0	0.810	0.001	0	0	0	5
PD.5217	PL.36118	C	20T	7.37Y	122.9	0.00	2.12	0.70	0	5	1	98	0.00	0.0	0.810	0.001	0	0	0	5
PL.35058	PD.5217	C	6 A (CWC)	7.37Y	122.9	0.00	2.12	0.70	1	5	1	98	0.00	0.0	0.830	0.020	2	1	3	5
PL.36119	PL.35058	C	6 A (CWC)	7.37Y	122.9	0.00	2.12	0.36	0	3	1	95	0.00	0.0	0.919	0.089	0	0	1	2
PL.36120	PL.36119	C	6 A (CWC)	7.37Y	122.9	0.00	2.12	0.34	0	2	1	89	0.00	0.0	0.926	0.007	0	0	0	1
PL.35059	PL.36120	C	6 A (CWC)	7.37Y	122.9	0.00	2.12	0.34	0	2	1	89	0.00	0.0	1.004	0.078	2	1	1	1
PL.36121	PL.36117	ABC	336 MCM AC	7.36Y	122.6	0.25	2.37	338.95	65	7196	2104	96	9.59	0.1	0.908	0.099	0	0	0	759
PL.62469	PL.36121	C	#4 ACSR	7.36Y	122.6	0.00	2.37	1.42	1	10	2	98	0.00	0.0	0.911	0.003	0	0	0	1
PD.9347	PL.62469	C	25T	7.36Y	122.6	0.00	2.37	1.42	0	10	2	98	0.00	0.0	0.911	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

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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.62470	PD.9347	C	#4 ACSR	7.36Y	122.6	0.00	2.37	1.42	1	10	2	98	0.00	0.0	0.942	0.031	10	2	1	1
PL.36122	PL.36121	ABC	336 MCM AC	7.35Y	122.4	0.20	2.57	338.48	65	7176	2079	96	7.70	0.1	0.988	0.080	0	0	0	758
PL.62061	PL.36122	C	6 A (CWC)	7.35Y	122.4	0.00	2.57	6.03	4	43	10	97	0.00	0.0	0.988	0.000	0	0	0	6
PD.9257	PL.62061	C	75QA	7.35Y	122.4	0.00	2.57	6.03	8	43	10	97	0.00	0.0	0.988	0.000	0	0	0	6
PL.61787	PD.9257	C	#1/0 ACSR	7.35Y	122.4	0.00	2.58	6.03	3	43	10	97	0.00	0.0	1.020	0.032	8	2	1	6
PL.61788	PL.61787	C	#1/0 ACSR	7.35Y	122.4	0.00	2.58	4.86	2	35	8	97	0.00	0.0	1.046	0.027	14	3	1	5
PL.62062	PL.61788	C	6 A (CWC)	7.35Y	122.4	0.00	2.58	2.95	2	21	5	97	0.00	0.0	1.096	0.049	21	5	4	4
PL.36123	PL.36122	ABC	336 MCM AC	7.33Y	122.2	0.22	2.79	336.47	65	7125	2051	96	8.31	0.1	1.075	0.087	6	1	1	752
PL.34626	PL.36123	C	#4 ACSR	7.33Y	122.2	0.00	2.79	1.48	1	11	2	98	0.00	0.0	1.112	0.037	11	2	1	1
PL.34003	PL.36123	C	#4 ACSR	7.33Y	122.2	0.00	2.79	8.70	7	62	14	98	0.00	0.0	1.076	0.001	0	0	0	7
PD.5818	PL.34003	C	75QA	7.33Y	122.2	0.00	2.79	8.70	12	62	14	98	0.00	0.0	1.076	0.001	0	0	0	7
PL.33674	PD.5818	C	#4 ACSR	7.33Y	122.2	0.03	2.82	8.70	7	62	14	98	0.01	0.0	1.153	0.078	5	1	1	7
PL.34004	PL.33674	C	#4 ACSR	7.33Y	122.2	0.01	2.83	7.94	6	57	13	97	0.00	0.0	1.190	0.037	33	8	2	6
PL.34638	PL.34004	C	#4 ACSR	7.33Y	122.2	0.01	2.84	3.30	3	24	5	98	0.00	0.0	1.270	0.080	14	3	2	4
PL.35177	PL.34638	C	#4 ACSR	7.33Y	122.2	0.00	2.84	0.68	1	5	1	98	0.00	0.0	1.327	0.057	5	1	1	1
PL.34639	PL.34638	C	#4 ACSR	7.33Y	122.2	0.00	2.84	0.64	0	5	1	98	0.00	0.0	1.324	0.054	5	1	1	1
PL.34466	PL.36123	ABC	336 MCM AC	7.32Y	122.1	0.12	2.92	332.82	64	7039	2014	96	4.61	0.1	1.124	0.049	0	0	0	743
PL.34642	PL.34466	A	6 A (CWC)	7.32Y	122.1	0.00	2.92	14.06	10	100	23	97	0.00	0.0	1.125	0.001	0	0	0	9
PD.5816	PL.34642	A	75QA	7.32Y	122.1	0.00	2.92	14.06	19	100	23	97	0.00	0.0	1.125	0.001	0	0	0	9
PL.34464	PD.5816	A	6 A (CWC)	7.32Y	122.1	0.03	2.95	14.06	10	100	23	97	0.02	0.0	1.172	0.047	0	0	0	9
PL.34822	PL.34464	A	6 A (CWC)	7.32Y	122.0	0.04	2.99	10.19	7	73	17	97	0.02	0.0	1.269	0.097	10	2	1	7
PL.35785	PL.34822	A	6 A (CWC)	7.32Y	122.0	0.00	2.99	2.33	2	17	4	97	0.00	0.0	1.324	0.055	17	4	2	2
PL.34823	PL.34822	A	6 A (CWC)	7.32Y	122.0	0.02	3.01	6.48	5	46	11	97	0.01	0.0	1.353	0.084	0	0	0	4
PL.35043	PL.34823	A	6 A (CWC)	7.32Y	122.0	0.00	3.01	1.74	1	12	3	97	0.00	0.0	1.396	0.043	12	3	1	1
PL.34797	PL.35043	A	6 A (CWC)	7.32Y	122.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	1.427	0.031	0	0	0	0
PL.34800	PL.34823	A	6 A (CWC)	7.32Y	122.0	0.01	3.02	2.76	2	20	5	97	0.00	0.0	1.457	0.103	20	5	1	1
PL.35212	PL.34800	A	6 A (CWC)	7.32Y	122.0	0.00	3.02	0.00	0	0	0	100	0.00	0.0	1.502	0.045	0	0	0	0
PL.34986	PL.34823	A	#2 ACSR	7.32Y	122.0	0.00	3.01	0.27	0	2	0	100	0.00	0.0	1.376	0.023	2	0	1	1
PL.34798	PL.34823	A	#2 ACSR	7.32Y	122.0	0.00	3.01	1.71	1	12	3	97	0.00	0.0	1.386	0.033	12	3	1	1
PL.34799	PL.34798	A	#2 ACSR	7.32Y	122.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	1.431	0.045	0	0	0	0
PL.34462	PL.34464	A	#4 ACSR	7.32Y	122.0	0.01	2.95	3.87	3	28	6	98	0.00	0.0	1.214	0.042	14	3	1	2

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34463	PL.34462	A	#4 ACSR	7.32Y	122.0	0.00	2.95	1.90	1	14	3	98	0.00	0.0	1.262	0.048	14	3	1	1
PL.34260	PL.34466	ABC	336 MCM AC	7.32Y	122.0	0.05	2.97	326.64	63	6902	1972	96	1.95	0.0	1.146	0.022	67	33	1	730
PL.34261	PL.34260	ABC	336 MCM AC	7.31Y	121.9	0.13	3.10	323.29	62	6832	1935	96	4.59	0.1	1.199	0.052	31	7	4	729
PL.34643	PL.34261	C	#4 ACSR	7.31Y	121.9	0.00	3.10	4.37	3	31	7	98	0.00	0.0	1.199	0.000	0	0	0	4
PD.5820	PL.34643	C	75QA	7.31Y	121.9	0.00	3.10	4.37	6	31	7	98	0.00	0.0	1.199	0.000	0	0	0	4
PL.34644	PD.5820	C	#4 ACSR	7.31Y	121.9	0.01	3.10	4.37	3	31	7	98	0.00	0.0	1.266	0.067	31	7	4	4
PL.35411	PL.34261	ABC	336 MCM AC	7.30Y	121.7	0.22	3.32	320.39	62	6766	1910	96	8.00	0.1	1.291	0.093	11	3	2	721
PL.35412	PL.35411	ABC	336 MCM AC	7.29Y	121.5	0.15	3.47	319.86	62	6746	1889	96	5.45	0.1	1.355	0.063	5	1	1	719
PL.34627	PL.35412	A	#4 ACSR	7.29Y	121.5	0.00	3.47	18.97	15	135	31	97	0.00	0.0	1.355	0.000	0	0	0	17
PD.5761	PL.34627	A	75QA	7.29Y	121.5	0.00	3.47	18.97	25	135	31	97	0.00	0.0	1.355	0.000	0	0	0	17
PL.34239	PD.5761	A	#4 ACSR	7.29Y	121.5	0.06	3.53	18.97	15	135	31	97	0.06	0.0	1.430	0.075	15	3	2	17
PL.34930	PL.34239	A	#4 ACSR	7.29Y	121.5	0.01	3.54	13.75	11	98	23	97	0.01	0.0	1.446	0.015	11	3	1	13
PL.34374	PL.34930	A	#4 ACSR	7.29Y	121.4	0.04	3.57	12.20	9	87	20	97	0.02	0.0	1.524	0.079	22	5	2	12
PL.34432	PL.34374	A	#2 ACSR	7.29Y	121.4	0.00	3.57	1.21	1	9	2	98	0.00	0.0	1.547	0.022	9	2	3	3
PL.34375	PL.34374	A	#4 ACSR	7.28Y	121.4	0.01	3.58	7.89	6	56	13	97	0.00	0.0	1.566	0.042	32	7	5	7
PL.35023	PL.34375	A	#2 ACSR	7.28Y	121.4	0.00	3.58	0.00	0	0	0	100	0.00	0.0	1.587	0.021	0	0	0	0
PL.34376	PL.34375	A	#4 ACSR	7.28Y	121.4	0.00	3.59	3.40	3	24	6	97	0.00	0.0	1.625	0.059	24	6	2	2
PL.35024	PL.34239	A	6 A (CWC)	7.29Y	121.5	0.01	3.54	3.10	2	22	5	98	0.00	0.0	1.530	0.100	22	5	2	2
PL.34377	PL.35412	ABC	336 MCM AC	7.28Y	121.4	0.17	3.63	312.10	60	6576	1838	96	5.86	0.1	1.426	0.072	23	5	2	698
PL.34378	PL.34377	A	#4 ACSR	7.28Y	121.4	0.00	3.63	3.82	3	27	6	98	0.00	0.0	1.427	0.000	0	0	0	4
PD.5711	PL.34378	A	75QA	7.28Y	121.4	0.00	3.63	3.82	5	27	6	98	0.00	0.0	1.427	0.000	0	0	0	4
PL.34076	PD.5711	A	#4 ACSR	7.28Y	121.4	0.00	3.64	3.82	3	27	6	98	0.00	0.0	1.476	0.050	25	6	3	4
PL.34077	PL.34076	A	#4 ACSR	7.28Y	121.4	0.00	3.64	0.24	0	2	0	100	0.00	0.0	1.507	0.031	2	0	1	1
PL.34379	PL.34377	ABC	336 MCM AC	7.28Y	121.3	0.07	3.71	309.75	60	6519	1812	96	2.62	0.0	1.459	0.032	24	6	2	692
PL.34380	PL.34379	ABC	336 MCM AC	7.27Y	121.1	0.21	3.91	308.62	59	6493	1801	96	7.20	0.1	1.549	0.090	33	8	3	690
PL.34438	PL.34380	ABC	336 MCM AC	7.25Y	120.9	0.21	4.12	306.45	59	6439	1773	96	7.18	0.1	1.639	0.091	0	0	0	686
PL.35620	PL.34438	ABC	336 MCM AC	7.25Y	120.8	0.09	4.21	306.00	59	6423	1754	96	2.98	0.0	1.677	0.038	8	2	1	685
PL.34385	PL.35620	ABC	336 MCM AC	7.24Y	120.7	0.10	4.31	305.65	59	6412	1746	96	3.52	0.1	1.722	0.045	0	0	0	684
PL.34404	PL.34385	ABC	336 MCM AC	7.23Y	120.5	0.16	4.46	304.76	59	6390	1733	97	5.44	0.1	1.792	0.070	12	3	1	681
PL.34478	PL.34404	C	#1/0 ACSR	7.23Y	120.5	0.00	4.46	1.69	1	12	3	97	0.00	0.0	1.817	0.026	12	3	1	1
PL.34405	PL.34404	ABC	336 MCM AC	7.22Y	120.3	0.27	4.74	303.61	58	6360	1715	97	9.51	0.1	1.914	0.122	0	0	0	679

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PL.34406	PL.34405	ABC	336 MCM AC	7.20Y	120.1	0.19	4.93	303.61	58	6351	1692	97	6.71	0.1	2.001	0.086	0	0	0	679
PL.34407	PL.34406	A	6 A (CWC)	7.20Y	120.1	0.00	4.93	1.18	1	8	2	97	0.00	0.0	2.002	0.001	0	0	0	1
PD.5821	PL.34407	A	75QA	7.20Y	120.1	0.00	4.93	1.18	2	8	2	97	0.00	0.0	2.002	0.001	0	0	0	1
PL.34408	PD.5821	A	6 A (CWC)	7.20Y	120.1	0.00	4.93	1.18	1	8	2	97	0.00	0.0	2.064	0.062	8	2	1	1
PL.34409	PL.34406	ABC	336 MCM AC	7.20Y	120.0	0.09	5.02	303.22	58	6336	1675	97	3.10	0.0	2.041	0.040	1	0	2	678
PL.34410	PL.34409	ABC	336 MCM AC	7.19Y	119.9	0.10	5.12	303.19	58	6332	1667	97	3.59	0.1	2.087	0.046	0	0	0	676
PL.34191	PL.34410	C	#4 ACSR	7.19Y	119.9	0.00	5.12	0.48	0	3	1	95	0.00	0.0	2.148	0.061	3	1	1	1
PL.35414	PL.34410	ABC	336 MCM AC	7.19Y	119.8	0.10	5.22	286.78	55	5983	1579	97	3.33	0.1	2.135	0.048	17	4	3	630
PL.34413	PL.35414	ABC	336 MCM AC	7.18Y	119.7	0.04	5.26	285.86	55	5961	1567	97	1.29	0.0	2.154	0.019	0	0	0	626
PL.34414	PL.34413	ABC	336 MCM AC	7.18Y	119.7	0.00	5.26	285.86	55	5959	1563	97	0.01	0.0	2.154	0.000	0	0	0	626
PL.59929	PL.34414	ABC	336 MCM AC	7.17Y	119.6	0.17	5.44	285.86	55	5959	1563	97	5.77	0.1	2.238	0.084	16	4	2	626
PL.59930	PL.59929	ABC	336 MCM AC	7.17Y	119.5	0.08	5.51	164.14	32	3407	933	96	1.47	0.0	2.303	0.065	15	3	3	336
PL.34275	PL.59930	ABC	336 MCM AC	7.16Y	119.4	0.08	5.59	163.42	31	3390	926	96	1.41	0.0	2.366	0.063	0	0	0	333
PL.34415	PL.34275	ABC	336 MCM AC	7.14Y	119.1	0.33	5.92	163.42	31	3389	923	96	6.14	0.2	2.640	0.274	21	5	3	333
PL.34416	PL.34415	A	#4 ACSR	7.14Y	119.1	0.00	5.92	1.24	1	9	2	98	0.00	0.0	2.641	0.000	0	0	0	1
PD.5219	PL.34416	A	75QA	7.14Y	119.1	0.00	5.92	1.24	2	9	2	98	0.00	0.0	2.641	0.000	0	0	0	1
PL.33409	PD.5219	A	#4 ACSR	7.14Y	119.1	0.00	5.92	1.24	1	9	2	98	0.00	0.0	2.650	0.009	0	0	0	1
PL.33410	PL.33409	A	#4 ACSR	7.14Y	119.1	0.00	5.92	1.24	1	9	2	98	0.00	0.0	2.704	0.054	9	2	1	1
PL.34419	PL.34415	ABC	336 MCM AC	7.14Y	119.0	0.08	6.00	161.98	31	3353	902	97	1.49	0.0	2.708	0.068	0	0	0	329
PL.34359	PL.34419	ABC	336 MCM AC	7.14Y	118.9	0.07	6.07	161.18	31	3335	894	97	1.25	0.0	2.765	0.057	16	4	1	328
PL.34360	PL.34359	ABC	336 MCM AC	7.12Y	118.7	0.23	6.30	159.19	31	3292	882	97	4.20	0.1	2.963	0.198	32	7	3	323
PL.36014	PL.34360	ABC	#4 ACSR	7.12Y	118.7	0.01	6.30	6.84	5	142	33	97	0.01	0.0	2.988	0.024	29	7	1	11
PL.36015	PL.36014	ABC	#4 ACSR	7.12Y	118.7	0.00	6.30	5.47	4	114	26	97	0.00	0.0	2.993	0.005	0	0	0	10
PL.34189	PL.36015	B	#4 ACSR	7.12Y	118.7	0.00	6.30	16.42	13	114	26	97	0.00	0.0	2.993	0.000	0	0	0	10
PD.5849	PL.34189	B	60QA	7.12Y	118.7	0.00	6.30	16.42	27	114	26	97	0.00	0.0	2.993	0.000	0	0	0	10
PL.34423	PD.5849	B	#4 ACSR	7.12Y	118.7	0.04	6.35	16.42	13	114	26	97	0.04	0.0	3.056	0.063	19	4	2	10
PL.34037	PL.34423	B	#4 ACSR	7.12Y	118.7	0.00	6.35	2.11	2	15	3	98	0.00	0.0	3.101	0.045	15	3	1	1
PL.34890	PL.34423	B	#4 ACSR	7.12Y	118.7	0.00	6.35	1.25	1	9	2	98	0.00	0.0	3.099	0.044	9	2	1	1
PL.34453	PL.34423	B	#4 ACSR	7.12Y	118.7	0.00	6.35	2.47	2	17	4	97	0.00	0.0	3.085	0.030	17	4	1	1
PL.34424	PL.34423	B	#4 ACSR	7.12Y	118.6	0.03	6.37	7.87	6	55	13	97	0.01	0.0	3.138	0.082	12	3	1	5
PL.34425	PL.34424	B	#4 ACSR	7.12Y	118.6	0.00	6.37	2.56	2	18	4	98	0.00	0.0	3.156	0.018	18	4	2	2

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36635	PL.34424	B	#2 ACSR	7.12Y	118.6	0.00	6.37	3.56	2	25	6	97	0.00	0.0	3.155	0.017	0	0	0	2
PL.36636	PL.36635	B	#2 ACSR	7.12Y	118.6	0.00	6.37	3.56	2	25	6	97	0.00	0.0	3.167	0.012	25	6	2	2
PL.34426	PL.34360	ABC	336 MCM AC	7.12Y	118.7	0.05	6.35	150.81	29	3113	831	97	0.88	0.0	3.009	0.046	1	0	1	309
PL.34811	PL.34426	C	#2 ACSR	7.12Y	118.7	0.00	6.35	1.94	1	13	3	97	0.00	0.0	3.046	0.037	13	3	1	1
PL.34078	PL.34426	ABC	336 MCM AC	7.11Y	118.6	0.07	6.42	150.11	29	3098	826	97	1.24	0.0	3.074	0.065	0	0	0	307
PL.34084	PL.34078	A	#2 ACSR	7.11Y	118.6	0.00	6.42	3.95	2	27	6	98	0.00	0.0	3.080	0.005	0	0	0	3
PD.5765	PL.34084	A	75QA	7.11Y	118.6	0.00	6.42	3.95	5	27	6	98	0.00	0.0	3.080	0.005	0	0	0	3
PL.34085	PD.5765	A	#2 ACSR	7.11Y	118.6	0.00	6.42	3.95	2	27	6	98	0.00	0.0	3.096	0.016	27	6	3	3
PL.36124	PL.34078	ABC	336 MCM AC	7.11Y	118.5	0.06	6.48	147.03	28	3032	808	97	1.08	0.0	3.134	0.059	0	0	0	302
PL.35625	PL.36124	ABC	336 MCM AC	7.11Y	118.5	0.04	6.53	145.11	28	2991	796	97	0.69	0.0	3.173	0.039	17	4	2	298
PL.36125	PL.35625	ABC	336 MCM AC	7.11Y	118.4	0.04	6.57	144.30	28	2974	791	97	0.70	0.0	3.212	0.040	8	2	2	296
REG16	PL.36125	ABC	167Kkva	7.53Y	125.5	-7.06	-0.49	143.91	66	2965	788	97	percent Boost= 5.62 Tap= 9.0						294	
PL.36126	REG16	ABC	336 MCM AC	7.52Y	125.4	0.08	-0.41	135.82	26	2965	788	97	1.22	0.0	3.292	0.079	38	9	6	294
PL.36127	PL.36126	ABC	336 MCM AC	7.52Y	125.3	0.07	-0.34	134.09	26	2926	776	97	1.13	0.0	3.366	0.075	0	0	1	288
PL.35687	PL.36127	ABC	#1/0 ACSR	7.52Y	125.3	0.02	-0.32	27.16	12	597	139	97	0.09	0.0	3.413	0.046	0	0	0	63
PL.36128	PL.35687	ABC	#1/0 ACSR	7.52Y	125.3	0.00	-0.32	27.16	12	597	139	97	0.00	0.0	3.413	0.000	0	0	0	63
PD.5790	PL.36128	ABC	70L	7.52Y	125.3	0.00	-0.32	27.16	39	597	139	97	0.00	0.0	3.413	0.000	0	0	0	63
PL.34778	PD.5790	ABC	#1/0 ACSR	7.52Y	125.3	0.02	-0.30	27.16	12	597	139	97	0.06	0.0	3.447	0.034	27	6	3	63
PL.34263	PL.34778	A	#2 ACSR	7.52Y	125.3	0.00	-0.30	2.79	2	20	5	97	0.00	0.0	3.447	0.000	0	0	0	2
PD.5267	PL.34263	A	40QA	7.52Y	125.3	0.00	-0.30	2.79	7	20	5	97	0.00	0.0	3.447	0.000	0	0	0	2
PL.34264	PD.5267	A	#2 ACSR	7.52Y	125.3	0.00	-0.30	2.79	2	20	5	97	0.00	0.0	3.461	0.014	20	5	2	2
PL.36129	PL.34778	ABC	#1/0 ACSR	7.52Y	125.3	0.03	-0.27	25.00	11	549	128	97	0.11	0.0	3.515	0.068	0	0	0	58
PL.52596	PL.36129	ABC	#1/0 ACSR	7.51Y	125.2	0.02	-0.25	25.00	11	549	127	97	0.09	0.0	3.569	0.054	13	3	1	58
PL.52597	PL.52596	A	#2 ACSR	7.51Y	125.2	0.00	-0.25	4.88	3	36	8	98	0.00	0.0	3.569	0.000	0	0	0	3
PD.5190	PL.52597	A	40QA	7.51Y	125.2	0.00	-0.25	4.88	12	36	8	98	0.00	0.0	3.569	0.000	0	0	0	3
PL.33692	PD.5190	A	#2 ACSR	7.51Y	125.2	0.01	-0.24	4.88	3	36	8	98	0.00	0.0	3.615	0.045	9	2	1	3
PL.59926	PL.33692	A	#2 ACSR	7.51Y	125.2	0.01	-0.24	3.63	2	27	6	98	0.00	0.0	3.690	0.075	13	3	1	2
PL.59927	PL.59926	A	#2 ACSR	7.51Y	125.2	0.00	-0.23	1.85	1	14	3	98	0.00	0.0	3.730	0.040	14	3	1	1
PL.52599	PL.52596	ABC	#1/0 ACSR	7.51Y	125.2	0.02	-0.23	22.79	10	500	116	97	0.06	0.0	3.612	0.044	12	3	1	54
PL.52598	PL.52599	ABC	#1/0 ACSR	7.51Y	125.2	0.02	-0.21	14.01	6	308	71	97	0.04	0.0	3.689	0.076	0	0	0	37
PL.52595	PL.52598	ABC	#1/0 ACSR	7.51Y	125.2	0.01	-0.20	10.98	5	241	56	97	0.02	0.0	3.761	0.073	0	0	0	24

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.52486	PL.52595	A	#4 ACSR	7.51Y	125.2	0.00	-0.20	2.73	2	20	5	97	0.00	0.0	3.762	0.001	0	0	0	2
PD.8035	PL.52486	A	40QA	7.51Y	125.2	0.00	-0.20	2.73	7	20	5	97	0.00	0.0	3.762	0.001	0	0	0	2
PL.52553	PD.8035	A	#4 ACSR	7.51Y	125.2	0.00	-0.20	2.73	2	20	5	97	0.00	0.0	3.786	0.023	20	5	2	2
PL.52485	PL.52595	C	#2 ACSR	7.51Y	125.2	0.00	-0.20	3.87	2	28	7	97	0.00	0.0	3.762	0.001	0	0	0	3
PD.8034	PL.52485	C	40QA	7.51Y	125.2	0.00	-0.20	3.87	10	28	7	97	0.00	0.0	3.762	0.001	0	0	0	3
PL.52344	PD.8034	C	#2 ACSR	7.51Y	125.2	0.01	-0.19	3.87	2	28	7	97	0.00	0.0	3.849	0.087	0	0	0	3
PL.52477	PL.52344	C	#2 ACSR	7.51Y	125.2	0.00	-0.19	0.00	0	0	0	100	0.00	0.0	3.912	0.062	0	0	0	0
PL.52493	PL.52344	C	#2 ACSR	7.51Y	125.2	0.01	-0.18	3.87	2	28	7	97	0.00	0.0	3.925	0.075	15	4	2	3
PL.52494	PL.52493	C	#2 ACSR	7.51Y	125.2	0.00	-0.18	1.78	1	13	3	97	0.00	0.0	3.959	0.035	13	3	1	1
PL.52487	PL.52595	ABC	#1/0 ACSR	7.51Y	125.2	0.04	-0.16	8.78	4	193	45	97	0.05	0.0	4.029	0.267	0	0	0	19
PL.52488	PL.52487	C	#2 ACSR	7.51Y	125.2	0.00	-0.16	1.37	1	10	2	98	0.00	0.0	4.031	0.002	0	0	0	1
PD.8041	PL.52488	C	40QA	7.51Y	125.2	0.00	-0.16	1.37	3	10	2	98	0.00	0.0	4.031	0.002	0	0	0	1
PL.52571	PD.8041	C	#2 ACSR	7.51Y	125.2	0.00	-0.16	1.37	1	10	2	98	0.00	0.0	4.072	0.042	10	2	1	1
PL.52554	PL.52487	ABC	#1/0 ACSR	7.51Y	125.1	0.01	-0.15	8.32	4	183	42	97	0.01	0.0	4.074	0.046	0	0	0	18
PL.52565	PL.52554	ABC	#1/0 ACSR	7.51Y	125.1	0.00	-0.15	8.32	4	183	42	97	0.01	0.0	4.104	0.030	10	2	2	18
PL.56754	PL.52565	C	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	9.09	4	66	15	98	0.00	0.0	4.106	0.002	0	0	0	6
PD.8328	PL.56754	C	40QA	7.51Y	125.1	0.00	-0.14	9.09	23	66	15	98	0.00	0.0	4.106	0.002	0	0	0	6
PL.56755	PD.8328	C	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	9.09	4	66	15	98	0.00	0.0	4.128	0.021	14	3	1	6
PL.52562	PL.56755	C	#4 ACSR	7.51Y	125.1	0.01	-0.13	6.13	5	45	10	98	0.00	0.0	4.177	0.050	22	5	2	4
PL.52563	PL.52562	C	#4 ACSR	7.51Y	125.1	0.00	-0.13	1.63	1	12	3	97	0.00	0.0	4.298	0.121	12	3	1	1
PL.64129	PL.52562	C	#2 ACSR	7.51Y	125.1	0.00	-0.13	1.43	1	10	2	98	0.00	0.0	4.195	0.017	10	2	1	1
PL.52570	PL.56755	C	#2 ACSR	7.51Y	125.1	0.00	-0.14	1.05	1	8	2	97	0.00	0.0	4.148	0.020	8	2	1	1
PL.52566	PL.52565	ABC	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	2.96	1	65	15	97	0.00	0.0	4.198	0.094	0	0	0	6
PL.52540	PL.52566	ABC	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	2.46	1	54	13	97	0.00	0.0	4.250	0.053	0	0	0	5
PL.52531	PL.52540	ABC	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	1.78	1	39	9	97	0.00	0.0	4.299	0.048	0	0	0	3
PL.52541	PL.52531	B	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	5.35	2	39	9	97	0.00	0.0	4.301	0.002	0	0	0	3
PD.8042	PL.52541	B	40QA	7.51Y	125.1	0.00	-0.14	5.35	13	39	9	97	0.00	0.0	4.301	0.002	0	0	0	3
PL.52593	PD.8042	B	#1/0 ACSR	7.51Y	125.1	0.02	-0.12	5.35	2	39	9	97	0.00	0.0	4.585	0.284	39	9	3	3
PL.52591	PL.52593	B	6 A (CWC)	7.51Y	125.1	0.00	-0.12	0.00	0	0	0	100	0.00	0.0	4.759	0.175	0	0	0	0
PL.52592	PL.52591	B	6 A (CWC)	7.51Y	125.1	0.00	-0.12	0.00	0	0	0	100	0.00	0.0	5.095	0.335	0	0	0	0
PL.52532	PL.52531	ABC	#1/0 ACSR	7.51Y	125.1	0.00	-0.14	0.00	0	0	0	100	0.00	0.0	4.350	0.051	0	0	0	0

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.52529	PL.52540	A	#4 ACSR	7.51Y	125.1	0.00	-0.14	2.04	2	15	3	98	0.00	0.0	4.253	0.003	0	0	0	2
PD.8037	PL.52529	A	40QA	7.51Y	125.1	0.00	-0.14	2.04	5	15	3	98	0.00	0.0	4.253	0.003	0	0	0	2
PL.52496	PD.8037	A	#4 ACSR	7.51Y	125.1	0.00	-0.13	2.04	2	15	3	98	0.00	0.0	4.291	0.038	0	0	0	2
PL.52528	PL.52496	A	#4 ACSR	7.51Y	125.1	0.00	-0.13	2.04	2	15	3	98	0.00	0.0	4.336	0.045	0	0	1	2
PL.52530	PL.52528	A	#4 ACSR	7.51Y	125.1	0.00	-0.13	2.04	2	15	3	98	0.00	0.0	4.380	0.044	15	3	1	1
PL.52539	PL.52566	A	#2 ACSR	7.51Y	125.1	0.00	-0.14	1.48	1	11	3	96	0.00	0.0	4.200	0.002	0	0	0	1
PD.8036	PL.52539	A	40QA	7.51Y	125.1	0.00	-0.14	1.48	4	11	3	96	0.00	0.0	4.200	0.002	0	0	0	1
PL.52495	PD.8036	A	#2 ACSR	7.51Y	125.1	0.00	-0.14	1.48	1	11	3	96	0.00	0.0	4.220	0.021	11	3	1	1
PL.52558	PL.52565	C	#2 ACSR	7.51Y	125.1	0.00	-0.14	5.58	3	41	9	98	0.00	0.0	4.118	0.014	41	9	4	4
PL.52594	PL.52598	A	#2 ACSR	7.51Y	125.2	0.00	-0.21	9.08	5	66	15	98	0.00	0.0	3.690	0.001	0	0	0	13
PD.8039	PL.52594	A	40QA	7.51Y	125.2	0.00	-0.21	9.08	23	66	15	98	0.00	0.0	3.690	0.001	0	0	0	13
PL.52480	PD.8039	A	#2 ACSR	7.51Y	125.2	0.00	-0.21	9.08	5	66	15	98	0.00	0.0	3.705	0.015	0	0	0	13
PL.52475	PL.52480	A	#2 ACSR	7.51Y	125.2	0.01	-0.20	9.08	5	66	15	98	0.00	0.0	3.737	0.032	7	2	2	13
PL.52476	PL.52475	A	#2 ACSR	7.51Y	125.2	0.01	-0.19	8.09	5	59	14	97	0.00	0.0	3.767	0.030	0	0	0	11
PL.59193	PL.52476	A	6 A (CWC)	7.51Y	125.2	0.01	-0.18	8.09	6	59	14	97	0.00	0.0	3.789	0.023	10	2	1	11
PL.59196	PL.59193	A	6 A (CWC)	7.51Y	125.2	0.01	-0.17	6.69	5	49	11	98	0.00	0.0	3.831	0.041	10	2	1	10
PL.59197	PL.59196	A	6 A (CWC)	7.51Y	125.2	0.01	-0.16	5.32	4	39	9	97	0.00	0.0	3.868	0.037	10	2	2	9
PL.59195	PL.59197	A	#2 ACSR	7.51Y	125.2	0.00	-0.16	0.11	0	1	0	100	0.00	0.0	3.895	0.028	0	0	0	2
PL.34710	PL.59195	A	#2 ACSR	7.51Y	125.2	0.00	-0.16	0.11	0	1	0	100	0.00	0.0	3.918	0.023	0	0	1	2
PL.62058	PL.34710	A	#1/0 ACSR	7.51Y	125.2	0.00	-0.16	0.11	0	1	0	100	0.00	0.0	3.957	0.039	1	0	1	1
PL.59194	PL.59197	A	6 A (CWC)	7.51Y	125.2	0.01	-0.15	3.84	3	28	7	97	0.00	0.0	3.952	0.084	0	0	0	5
PL.35165	PL.59194	A	6 A (CWC)	7.51Y	125.1	0.01	-0.14	3.34	2	24	6	97	0.00	0.0	3.990	0.038	2	1	1	4
PL.34711	PL.35165	A	6 A (CWC)	7.51Y	125.1	0.02	-0.13	3.03	2	22	5	98	0.00	0.0	4.108	0.118	0	0	1	3
PL.34712	PL.34711	A	6 A (CWC)	7.51Y	125.1	0.00	-0.13	3.03	2	22	5	98	0.00	0.0	4.133	0.025	22	5	2	2
PL.62684	PL.59194	A	1/0 AL URD	7.51Y	125.1	0.00	-0.15	0.50	0	4	1	97	0.00	0.0	3.986	0.034	4	1	1	1
PL.52600	PL.52599	A	6 A (CWC)	7.51Y	125.2	0.00	-0.23	24.71	18	181	42	97	0.00	0.0	3.614	0.001	0	0	0	16
PD.7971	PL.52600	A	40QA	7.51Y	125.2	0.00	-0.23	24.71	62	181	42	97	0.00	0.0	3.614	0.001	0	0	0	16
PL.52601	PD.7971	A	6 A (CWC)	7.51Y	125.2	0.01	-0.22	24.71	18	181	42	97	0.01	0.0	3.624	0.010	23	5	2	16
PL.33693	PL.52601	A	6 A (CWC)	7.51Y	125.1	0.09	-0.13	21.52	15	157	37	97	0.10	0.1	3.716	0.093	11	3	1	14
PL.35735	PL.33693	A	6 A (CWC)	7.50Y	125.1	0.07	-0.07	20.02	14	146	34	97	0.07	0.0	3.792	0.076	12	3	2	13
PL.35734	PL.35735	A	6 A (CWC)	7.50Y	125.0	0.02	-0.04	18.35	13	134	31	97	0.02	0.0	3.821	0.029	19	4	1	11

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35736	PL.35734	A	6 A (CWC)	7.50Y	125.0	0.03	-0.01	15.81	11	116	27	97	0.03	0.0	3.866	0.045	12	3	1	10
PL.35737	PL.35736	A	6 A (CWC)	7.50Y	125.0	0.02	0.01	14.18	10	104	24	97	0.01	0.0	3.902	0.035	19	4	2	9
PL.33768	PL.35737	A	6 A (CWC)	7.50Y	125.0	0.00	0.01	1.44	1	11	2	98	0.00	0.0	3.945	0.043	11	2	1	1
PL.34112	PL.35737	A	6 A (CWC)	7.50Y	125.0	0.02	0.03	10.17	7	74	17	97	0.01	0.0	3.948	0.047	12	3	1	6
PL.34113	PL.34112	A	6 A (CWC)	7.50Y	125.0	0.01	0.04	8.47	6	62	14	98	0.01	0.0	3.986	0.038	0	0	0	5
PL.34114	PL.34113	A	6 A (CWC)	7.50Y	125.0	0.00	0.05	3.60	3	26	6	97	0.00	0.0	4.008	0.022	0	0	0	2
PL.34117	PL.34114	A	6 A (CWC)	7.50Y	125.0	0.00	0.05	1.77	1	13	3	97	0.00	0.0	4.043	0.035	13	3	1	1
PL.34953	PL.34114	A	6 A (CWC)	7.50Y	125.0	0.00	0.05	1.84	1	13	3	97	0.00	0.0	4.035	0.027	13	3	1	1
PL.34875	PL.34113	A	6 A (CWC)	7.50Y	125.0	0.01	0.05	4.86	3	36	8	98	0.00	0.0	4.020	0.033	0	0	0	3
PL.34118	PL.34875	A	6 A (CWC)	7.50Y	124.9	0.01	0.05	4.86	3	36	8	98	0.00	0.0	4.052	0.033	13	3	1	3
PL.34709	PL.34118	A	6 A (CWC)	7.50Y	124.9	0.00	0.06	3.07	2	22	5	98	0.00	0.0	4.094	0.041	22	5	2	2
PL.64365	PL.36129	A	#2 ACSR	7.52Y	125.3	0.00	-0.27	0.00	0	0	0	100	0.00	0.0	3.517	0.001	0	0	0	0
PD.9533	PL.64365	A	30T	7.52Y	125.3	0.00	-0.27	0.00	0	0	0	100	0.00	0.0	3.517	0.001	0	0	0	0
PL.64366	PD.9533	A	#2 ACSR	7.52Y	125.3	0.00	-0.27	0.00	0	0	0	100	0.00	0.0	3.537	0.020	0	0	0	0
PL.64367	PL.36129	A	#2 ACSR	7.52Y	125.3	0.00	-0.27	0.00	0	0	0	100	0.00	0.0	3.517	0.002	0	0	0	0
PD.9534	PL.64367	A	30T	7.52Y	125.3	0.00	-0.27	0.00	0	0	0	100	0.00	0.0	3.517	0.002	0	0	0	0
PL.64368	PD.9534	A	#2 ACSR	7.52Y	125.3	0.00	-0.27	0.00	0	0	0	100	0.00	0.0	3.532	0.016	0	0	0	0
PL.35189	PL.36127	ABC	336 MCM AC	7.52Y	125.3	0.08	-0.26	86.39	17	1897	447	97	0.85	0.0	3.501	0.135	0	0	0	212
PL.36477	PL.35189	ABC	336 MCM AC	7.51Y	125.2	0.02	-0.24	47.91	9	1051	247	97	0.11	0.0	3.559	0.058	0	0	0	117
PL.62592	PL.36477	B	#2 ACSR	7.51Y	125.2	0.00	-0.24	7.14	4	52	12	97	0.00	0.0	3.563	0.003	0	0	0	5
PD.9395	PL.62592	B	20T	7.51Y	125.2	0.00	-0.24	7.14	4	52	12	97	0.00	0.0	3.563	0.003	0	0	0	5
PL.62593	PD.9395	B	#2 ACSR	7.51Y	125.2	0.00	-0.23	7.14	4	52	12	97	0.00	0.0	3.582	0.019	9	2	2	5
PL.59121	PL.62593	B	#2 ACSR	7.51Y	125.2	0.01	-0.22	5.87	3	43	10	97	0.00	0.0	3.679	0.096	43	10	3	3
PL.35221	PL.36477	ABC	336 MCM AC	7.51Y	125.2	0.04	-0.20	45.53	9	999	235	97	0.21	0.0	3.678	0.118	0	0	0	112
PL.35222	PL.35221	ABC	336 MCM AC	7.51Y	125.1	0.05	-0.15	44.88	9	985	231	97	0.28	0.0	3.843	0.165	0	0	0	111
PL.37143	PL.35222	ABC	#2 ACSR	7.51Y	125.1	0.00	-0.15	44.88	26	984	231	97	0.01	0.0	3.844	0.001	0	0	0	111
PD.5863	PL.37143	ABC	70L	7.51Y	125.1	0.00	-0.15	44.88	64	984	231	97	0.00	0.0	3.844	0.001	0	0	0	111
PL.37144	PD.5863	ABC	#2 ACSR	7.50Y	125.1	0.09	-0.06	44.88	26	984	231	97	0.67	0.1	3.925	0.081	0	0	0	111
PL.35702	PL.37144	A	#4 ACSR	7.50Y	125.1	0.00	-0.06	1.52	1	11	3	96	0.00	0.0	3.926	0.001	0	0	0	2
PD.5749	PL.35702	A	50QA	7.50Y	125.1	0.00	-0.06	1.52	3	11	3	96	0.00	0.0	3.926	0.001	0	0	0	2
PL.36598	PD.5749	A	#4 ACSR	7.50Y	125.1	0.00	-0.05	1.52	1	11	3	96	0.00	0.0	3.998	0.072	0	0	0	2

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36601	PL.36598	A	#4 ACSR	7.50Y	125.0	0.00	-0.05	1.52	1	11	3	96	0.00	0.0	4.049	0.051	6	1	1	2
PL.36602	PL.36601	A	#4 ACSR	7.50Y	125.0	0.00	-0.05	0.73	1	5	1	98	0.00	0.0	4.121	0.072	5	1	1	1
PL.35153	PL.37144	ABC	#2 ACSR	7.50Y	125.0	0.05	-0.01	44.37	25	973	228	97	0.35	0.0	3.968	0.043	0	0	0	109
PL.35701	PL.35153	ABC	#2 ACSR	7.50Y	124.9	0.07	0.06	44.37	25	972	227	97	0.50	0.1	4.030	0.062	0	0	0	109
PL.34043	PL.35701	C	6 A (CWC)	7.50Y	124.9	0.00	0.06	22.45	16	164	38	97	0.00	0.0	4.033	0.003	0	0	0	23
PD.5861	PL.34043	C	50L	7.50Y	124.9	0.00	0.06	22.45	45	164	38	97	0.00	0.0	4.033	0.003	0	0	0	23
PL.35676	PD.5861	C	6 A (CWC)	7.48Y	124.7	0.23	0.30	22.45	16	164	38	97	0.27	0.2	4.280	0.247	20	5	2	23
PL.35677	PL.35676	C	6 A (CWC)	7.48Y	124.6	0.07	0.37	19.65	14	143	33	97	0.08	0.1	4.364	0.084	0	0	0	21
PL.35190	PL.35677	C	6 A (CWC)	7.48Y	124.6	0.00	0.38	1.51	1	11	3	96	0.00	0.0	4.431	0.067	11	3	1	1
PL.35680	PL.35677	C	6 A (CWC)	7.47Y	124.6	0.06	0.44	17.70	13	129	30	97	0.06	0.0	4.450	0.086	16	4	1	18
PL.35681	PL.35680	C	6 A (CWC)	7.47Y	124.5	0.07	0.51	15.55	11	113	26	97	0.06	0.1	4.547	0.097	0	0	0	17
PL.36549	PL.35681	C	6 A (CWC)	7.47Y	124.4	0.06	0.57	15.55	11	113	26	97	0.05	0.0	4.635	0.088	0	0	0	17
PL.52163	PL.36549	C	6 A (CWC)	7.46Y	124.4	0.05	0.62	14.68	10	107	25	97	0.04	0.0	4.717	0.081	0	0	0	16
PL.52164	PL.52163	C	6 A (CWC)	7.46Y	124.4	0.01	0.64	1.23	1	9	2	98	0.00	0.0	4.981	0.265	0	0	0	1
PL.52165	PL.52164	C	#1/0 ACSR	7.46Y	124.4	0.00	0.64	1.23	1	9	2	98	0.00	0.0	5.059	0.077	9	2	1	1
PL.52162	PL.52163	C	6 A (CWC)	7.45Y	124.2	0.15	0.77	13.46	10	98	23	97	0.11	0.1	4.967	0.250	0	0	0	15
PL.36196	PL.52162	C	6 A (CWC)	7.45Y	124.2	0.06	0.84	11.99	9	87	20	97	0.04	0.0	5.088	0.121	8	2	1	13
PL.35872	PL.36196	C	6 A (CWC)	7.45Y	124.1	0.04	0.88	10.88	8	79	18	98	0.03	0.0	5.175	0.087	0	0	0	12
PL.61988	PL.35872	C	6 A (CWC)	7.45Y	124.1	0.01	0.89	6.98	5	51	12	97	0.00	0.0	5.209	0.034	0	0	0	8
PL.61989	PL.61988	C	6 A (CWC)	7.45Y	124.1	0.01	0.90	5.63	4	41	9	98	0.00	0.0	5.249	0.040	9	2	1	7
PL.35049	PL.61989	C	6 A (CWC)	7.45Y	124.1	0.01	0.91	4.34	3	31	7	98	0.00	0.0	5.298	0.049	0	0	0	6
PL.34736	PL.35049	C	6 A (CWC)	7.45Y	124.1	0.01	0.91	4.34	3	31	7	98	0.00	0.0	5.332	0.034	12	3	1	6
PL.34737	PL.34736	C	6 A (CWC)	7.44Y	124.1	0.00	0.92	2.71	2	20	5	97	0.00	0.0	5.362	0.030	6	1	2	5
PL.33554	PL.34737	C	6 A (CWC)	7.44Y	124.1	0.01	0.93	1.83	1	13	3	97	0.00	0.0	5.477	0.115	1	0	1	3
PL.33555	PL.33554	C	6 A (CWC)	7.44Y	124.1	0.00	0.93	1.74	1	13	3	97	0.00	0.0	5.541	0.065	13	3	2	2
PL.61990	PL.61988	C	#1/0 ACSR	7.45Y	124.1	0.00	0.89	1.35	1	10	2	98	0.00	0.0	5.219	0.010	10	2	1	1
PL.36148	PL.35872	C	6 A (CWC)	7.45Y	124.1	0.03	0.91	3.90	3	28	7	97	0.01	0.0	5.338	0.163	5	1	1	4
PL.36149	PL.36148	C	6 A (CWC)	7.45Y	124.1	0.01	0.92	3.17	2	23	5	98	0.00	0.0	5.415	0.076	4	1	1	3
PL.36599	PL.36149	C	6 A (CWC)	7.44Y	124.1	0.02	0.93	2.64	2	19	4	98	0.00	0.0	5.619	0.205	12	3	1	2
PL.36600	PL.36599	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	1.03	1	7	2	96	0.00	0.0	5.717	0.097	7	2	1	1
PL.35005	PL.52162	C	6 A (CWC)	7.45Y	124.2	0.01	0.78	1.46	1	11	2	98	0.00	0.0	5.102	0.136	0	0	0	2

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.33688	PL.35005	C	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.69	0	5	1	98	0.00	0.0	5.144	0.042	5	1	1	1
PL.35006	PL.35005	C	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.78	1	6	1	99	0.00	0.0	5.158	0.056	6	1	1	1
PL.36550	PL.36549	C	6 A (CWC)	7.47Y	124.4	0.00	0.57	0.87	1	6	1	99	0.00	0.0	4.684	0.048	6	1	1	1
PL.36551	PL.36550	C	6 A (CWC)	7.47Y	124.4	0.00	0.57	0.00	0	0	0	100	0.00	0.0	4.733	0.049	0	0	0	0
PL.35678	PL.35677	C	6 A (CWC)	7.48Y	124.6	0.00	0.38	0.45	0	3	1	95	0.00	0.0	4.454	0.090	3	1	1	2
PL.35679	PL.35678	C	6 A (CWC)	7.48Y	124.6	0.00	0.38	0.06	0	0	0	100	0.00	0.0	4.484	0.030	0	0	1	1
PL.33413	PL.35701	ABC	336 MCM AC	7.49Y	124.9	0.02	0.08	36.48	7	799	187	97	0.10	0.0	4.121	0.091	6	1	1	85
PL.33414	PL.33413	ABC	336 MCM AC	7.49Y	124.9	0.01	0.10	36.20	7	793	185	97	0.05	0.0	4.169	0.049	0	0	0	84
PL.34501	PL.33414	ABC	336 MCM AC	7.49Y	124.9	0.01	0.11	33.79	7	740	173	97	0.05	0.0	4.220	0.051	0	0	0	80
PL.34502	PL.34501	ABC	336 MCM AC	7.49Y	124.9	0.01	0.12	31.10	6	681	159	97	0.03	0.0	4.253	0.033	0	0	0	76
PL.59185	PL.34502	ABC	336 MCM AC	7.49Y	124.9	0.02	0.14	30.21	6	661	154	97	0.08	0.0	4.353	0.100	11	3	1	73
PL.59186	PL.59185	ABC	336 MCM AC	7.49Y	124.8	0.02	0.15	29.70	6	650	152	97	0.06	0.0	4.431	0.078	16	4	1	72
PL.35875	PL.59186	ABC	336 MCM AC	7.49Y	124.8	0.01	0.16	28.98	6	634	148	97	0.02	0.0	4.461	0.030	0	0	0	71
PL.52712	PL.35875	ABC	336 MCM AC	7.49Y	124.8	0.01	0.17	28.01	5	613	143	97	0.02	0.0	4.498	0.037	0	0	1	68
PL.52713	PL.52712	ABC	336 MCM AC	7.49Y	124.8	0.01	0.18	28.01	5	613	143	97	0.04	0.0	4.561	0.063	0	0	0	67
PL.52714	PL.52713	ABC	336 MCM AC	7.49Y	124.8	0.02	0.20	28.01	5	613	143	97	0.05	0.0	4.643	0.082	0	0	0	67
PL.35347	PL.52714	ABC	336 MCM AC	7.49Y	124.8	0.01	0.20	24.31	5	532	124	97	0.02	0.0	4.675	0.031	0	0	0	59
PL.35050	PL.35347	ABC	336 MCM AC	7.49Y	124.8	0.02	0.22	23.76	5	520	121	97	0.05	0.0	4.772	0.097	0	0	0	58
PL.34548	PL.35050	B	#2 ACSR	7.49Y	124.8	0.01	0.23	3.51	2	26	6	97	0.00	0.0	4.844	0.073	1	0	1	6
PL.34550	PL.34548	B	#2 ACSR	7.49Y	124.8	0.00	0.23	2.80	2	20	5	97	0.00	0.0	4.908	0.064	12	3	2	4
PL.34551	PL.34550	B	#2 ACSR	7.49Y	124.8	0.00	0.23	1.09	1	8	2	97	0.00	0.0	4.928	0.020	8	2	2	2
PL.34549	PL.34551	B	#2 ACSR	7.49Y	124.8	0.00	0.23	0.00	0	0	0	100	0.00	0.0	5.202	0.274	0	0	0	0
PL.34623	PL.34548	B	#2 ACSR	7.49Y	124.8	0.00	0.23	0.61	0	4	1	97	0.00	0.0	4.905	0.061	4	1	1	1
PL.34622	PL.35050	ABC	336 MCM AC	7.49Y	124.8	0.01	0.23	22.60	4	494	115	97	0.04	0.0	4.860	0.089	0	0	1	52
PL.35008	PL.34622	ABC	336 MCM AC	7.48Y	124.7	0.03	0.26	21.21	4	464	108	97	0.07	0.0	5.038	0.178	0	0	0	49
PL.35009	PL.35008	B	#2 ACSR	7.48Y	124.7	0.00	0.26	0.00	0	0	0	100	0.00	0.0	5.040	0.001	0	0	0	0
PD.5684	PL.35009	B	#2 ACSR	7.48Y	124.7	0.00	0.26	0.00	0	0	0	100	0.00	0.0	5.040	0.001	0	0	0	0
PL.35010	PD.5684	B	#2 ACSR	7.48Y	124.7	0.00	0.26	0.00	0	0	0	100	0.00	0.0	5.068	0.029	0	0	0	0
PL.35881	PL.35008	ABC	336 MCM AC	7.48Y	124.7	0.01	0.27	21.21	4	464	108	97	0.03	0.0	5.114	0.076	10	2	1	49
PL.35882	PL.35881	ABC	336 MCM AC	7.48Y	124.7	0.01	0.28	20.75	4	454	105	97	0.02	0.0	5.176	0.062	13	3	1	48
PL.35883	PL.35882	B	#4 ACSR	7.48Y	124.7	0.00	0.28	2.30	2	17	4	97	0.00	0.0	5.176	0.000	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.5718	PL.35883	B	40QA	7.48Y	124.7	0.00	0.28	2.30	6	17	4	97	0.00	0.0	5.176	0.000	0	0	0	3
PL.36463	PD.5718	B	#4 ACSR	7.48Y	124.7	0.00	0.28	2.30	2	17	4	97	0.00	0.0	5.217	0.041	0	0	0	3
PL.35020	PL.36463	B	#4 ACSR	7.48Y	124.7	0.00	0.28	0.00	0	0	0	100	0.00	0.0	5.267	0.050	0	0	0	0
PL.36167	PL.36463	B	#4 ACSR	7.48Y	124.7	0.02	0.30	1.44	1	11	2	98	0.00	0.0	5.518	0.301	0	0	0	2
PL.36168	PL.36167	B	#4 ACSR	7.48Y	124.7	0.01	0.31	1.44	1	11	2	98	0.00	0.0	5.700	0.182	1	0	1	2
PL.34883	PL.36168	B	#1/0 ACSR	7.48Y	124.7	0.00	0.31	0.00	0	0	0	100	0.00	0.0	5.739	0.039	0	0	0	0
PL.36252	PL.36168	B	6 A (CWC)	7.48Y	124.7	0.00	0.31	1.25	1	9	2	98	0.00	0.0	5.742	0.042	0	0	0	1
PL.34686	PL.36252	B	#2 ACSR	7.48Y	124.7	0.00	0.32	1.25	1	9	2	98	0.00	0.0	5.806	0.064	9	2	1	1
PL.53761	PL.36463	B	#4 ACSR	7.48Y	124.7	0.00	0.28	0.86	1	6	1	99	0.00	0.0	5.293	0.076	6	1	1	1
PL.34882	PL.35882	B	#2 ACSR	7.48Y	124.7	0.00	0.28	0.00	0	0	0	100	0.00	0.0	5.214	0.039	0	0	0	0
PL.34009	PL.35882	ABC	336 MCM AC	7.48Y	124.7	0.01	0.29	19.38	4	424	99	97	0.03	0.0	5.277	0.101	0	0	0	44
PL.36792	PL.34009	ABC	336 MCM AC	7.48Y	124.7	0.01	0.30	19.38	4	424	98	97	0.01	0.0	5.313	0.037	0	0	0	44
PL.53756	PL.36792	ABC	336 MCM AC	7.48Y	124.7	0.01	0.31	19.38	4	424	98	97	0.02	0.0	5.374	0.061	0	0	0	44
PD.7927	PL.53756	ABC	40QA	7.48Y	124.7	0.00	0.31	19.38	48	424	98	97	0.00	0.0	5.374	0.061	0	0	0	44
PL.53755	PD.7927	ABC	336 MCM AC	7.48Y	124.7	0.00	0.31	19.38	4	424	98	97	0.00	0.0	5.377	0.003	0	0	0	44
PL.60749	PL.53755	ABC	#2 ACSR	7.48Y	124.7	0.01	0.31	4.56	3	100	23	97	0.00	0.0	5.421	0.044	0	0	0	7
PL.60752	PL.60749	ABC	#2 ACSR	7.48Y	124.7	0.00	0.31	0.65	0	14	3	98	0.00	0.0	5.448	0.027	0	0	0	2
PL.60302	PL.60752	C	#1/0 ACSR	7.48Y	124.7	0.00	0.31	1.95	1	14	3	98	0.00	0.0	5.452	0.003	0	0	0	2
PD.9063	PL.60302	C	15T	7.48Y	124.7	0.00	0.31	1.95	0	14	3	98	0.00	0.0	5.452	0.003	0	0	0	2
PL.60303	PD.9063	C	#1/0 ACSR	7.48Y	124.7	0.00	0.31	1.95	1	14	3	98	0.00	0.0	5.502	0.051	14	3	2	2
PL.60751	PL.60752	ABC	#2 ACSR	7.48Y	124.7	0.00	0.31	0.00	0	0	0	100	0.00	0.0	5.465	0.017	0	0	0	0
PD.9062-B	PL.60751	ABC	Open	7.48Y	124.7	0.00	0.31	0.00	0	0	0	100	0.00	0.0	5.465	0.017	0	0	0	0
PL.60748	PL.60749	C	#2 ACSR	7.48Y	124.7	0.00	0.31	11.73	7	85	20	97	0.00	0.0	5.424	0.003	0	0	0	5
PD.7926	PL.60748	C	40QA	7.48Y	124.7	0.00	0.31	11.73	29	85	20	97	0.00	0.0	5.424	0.003	0	0	0	5
PL.53757	PD.7926	C	#2 ACSR	7.48Y	124.7	0.01	0.32	11.73	7	85	20	97	0.00	0.0	5.461	0.037	57	13	2	5
PL.60678	PL.53757	C	#2 ACSR	7.48Y	124.7	0.00	0.32	3.85	2	28	6	98	0.00	0.0	5.496	0.036	9	2	1	3
PL.60679	PL.60678	C	#2 ACSR	7.48Y	124.7	0.00	0.33	2.65	2	19	4	98	0.00	0.0	5.544	0.048	19	4	2	2
PL.36791	PL.53755	ABC	#2 ACSR	7.48Y	124.7	0.04	0.35	14.83	8	324	75	97	0.10	0.0	5.489	0.112	0	0	0	37
PL.53758	PL.36791	B	#2 ACSR	7.48Y	124.7	0.00	0.35	1.81	1	13	3	97	0.00	0.0	5.553	0.064	13	3	1	1
PL.53759	PL.36791	ABC	#2 ACSR	7.48Y	124.6	0.01	0.35	14.22	8	311	72	97	0.01	0.0	5.504	0.015	14	3	1	36
PL.53760	PL.53759	ABC	#2 ACSR	7.48Y	124.6	0.06	0.41	13.59	8	297	69	97	0.14	0.0	5.685	0.181	0	0	0	35

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36442	PL.53760	ABC	#2 ACSR	7.47Y	124.6	0.03	0.45	12.44	7	272	63	97	0.06	0.0	5.788	0.103	9	2	1	33
PL.34008	PL.36442	ABC	#2 ACSR	7.47Y	124.5	0.02	0.46	11.48	7	251	58	97	0.04	0.0	5.856	0.068	8	2	1	31
PL.35149	PL.34008	ABC	#2 ACSR	7.47Y	124.5	0.03	0.49	11.11	6	243	56	97	0.05	0.0	5.948	0.092	0	0	0	30
PL.35011	PL.35149	A	#2 ACSR	7.47Y	124.5	0.00	0.49	0.45	0	3	1	95	0.00	0.0	5.973	0.026	3	1	1	1
PL.34701	PL.35149	A	#2 ACSR	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	5.977	0.029	0	0	0	0
PL.35497	PL.35149	ABC	#2 ACSR	7.47Y	124.5	0.03	0.52	10.96	6	239	56	97	0.06	0.0	6.074	0.126	9	2	1	29
PL.35498	PL.35497	ABC	#2 ACSR	7.47Y	124.4	0.04	0.56	10.57	6	231	54	97	0.06	0.0	6.216	0.142	0	0	0	28
PL.35499	PL.35498	C	#2 ACSR	7.47Y	124.4	0.00	0.56	1.26	1	9	2	98	0.00	0.0	6.219	0.003	0	0	0	1
PD.5194	PL.35499	C	40QA	7.47Y	124.4	0.00	0.56	1.26	3	9	2	98	0.00	0.0	6.219	0.003	0	0	0	1
PL.35500	PD.5194	C	#2 ACSR	7.47Y	124.4	0.00	0.56	1.26	1	9	2	98	0.00	0.0	6.249	0.030	9	2	1	1
PL.35272	PL.35498	ABC	#2 ACSR	7.47Y	124.4	0.02	0.58	10.15	6	221	51	97	0.03	0.0	6.283	0.067	0	0	0	27
PL.35039	PL.35272	ABC	6 A (CWC)	7.46Y	124.4	0.02	0.60	5.37	4	117	27	97	0.02	0.0	6.364	0.081	0	0	0	18
PL.34624	PL.35039	C	6 A (CWC)	7.46Y	124.4	0.00	0.60	2.38	2	17	4	97	0.00	0.0	6.443	0.080	17	4	1	1
PL.35270	PL.35039	ABC	6 A (CWC)	7.46Y	124.4	0.01	0.60	4.58	3	100	23	97	0.01	0.0	6.415	0.051	0	0	0	17
PL.35271	PL.35270	ABC	6 A (CWC)	7.46Y	124.3	0.06	0.66	4.58	3	100	23	97	0.05	0.0	6.753	0.338	0	0	0	17
PL.59959	PL.35271	A	6 A (CWC)	7.46Y	124.3	0.04	0.71	11.34	8	82	19	97	0.03	0.0	6.833	0.080	0	0	0	12
PL.59960	PL.59959	A	6 A (CWC)	7.46Y	124.3	0.02	0.72	11.34	8	82	19	97	0.01	0.0	6.864	0.031	0	0	0	12
PL.59961	PL.59960	A	6 A (CWC)	7.45Y	124.2	0.05	0.77	11.34	8	82	19	97	0.03	0.0	6.961	0.098	7	2	2	12
PL.59958	PL.59961	A	#2 ACSR	7.45Y	124.2	0.01	0.78	6.17	4	45	10	98	0.00	0.0	7.028	0.067	5	1	1	5
PL.34558	PL.59958	A	#2 ACSR	7.45Y	124.2	0.00	0.79	5.45	3	40	9	98	0.00	0.0	7.066	0.038	25	6	3	4
PL.34820	PL.34558	A	#2 ACSR	7.45Y	124.2	0.00	0.79	1.96	1	14	3	98	0.00	0.0	7.120	0.054	14	3	1	1
PL.55964	PL.34558	A	#2 ACSR	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	7.227	0.161	0	0	0	0
PL.59957	PL.59961	A	6 A (CWC)	7.45Y	124.2	0.00	0.77	4.14	3	30	7	97	0.00	0.0	6.986	0.025	0	0	0	5
PL.34510	PL.59957	A	6 A (CWC)	7.45Y	124.2	0.00	0.78	1.43	1	10	2	98	0.00	0.0	7.052	0.066	6	1	1	2
PL.34557	PL.34510	A	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.66	0	5	1	98	0.00	0.0	7.077	0.024	5	1	1	1
PL.34509	PL.59957	A	6 A (CWC)	7.45Y	124.2	0.01	0.78	2.72	2	20	5	97	0.00	0.0	7.039	0.053	4	1	1	3
PL.36357	PL.34509	A	6 A (CWC)	7.45Y	124.2	0.01	0.79	2.15	2	16	4	97	0.00	0.0	7.135	0.096	5	1	1	2
PL.36358	PL.36357	A	6 A (CWC)	7.45Y	124.2	0.00	0.79	1.48	1	11	2	98	0.00	0.0	7.223	0.088	11	2	1	1
PL.34074	PL.35271	ABC	6 A (CWC)	7.46Y	124.3	0.00	0.67	0.42	0	9	2	98	0.00	0.0	6.831	0.078	9	2	2	2
PL.33875	PL.35271	A	6 A (CWC)	7.46Y	124.3	0.01	0.67	1.13	1	8	2	97	0.00	0.0	6.873	0.120	0	0	0	3
PL.35130	PL.33875	A	#1/0 ACSR	7.46Y	124.3	0.00	0.67	1.12	0	8	2	97	0.00	0.0	6.958	0.085	8	2	2	2

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36372	PL.33875	A	6 A (CWC)	7.46Y	124.3	0.00	0.67	0.01	0	0	0	100	0.00	0.0	7.004	0.131	0	0	1	1
PL.36373	PL.36372	A	6 A (CWC)	7.46Y	124.3	0.00	0.67	0.00	0	0	0	100	0.00	0.0	7.057	0.053	0	0	0	0
PL.34887	PL.35270	A	#4 ACSR	7.46Y	124.4	0.00	0.60	0.00	0	0	0	100	0.00	0.0	6.485	0.070	0	0	0	0
PL.33889	PL.35272	B	#4 ACSR	7.46Y	124.4	0.05	0.63	14.33	11	104	24	97	0.04	0.0	6.365	0.083	0	0	0	9
PL.36665	PL.33889	B	#4 ACSR	7.46Y	124.4	0.00	0.63	14.33	11	104	24	97	0.00	0.0	6.368	0.003	0	0	0	9
PD.5782	PL.36665	B	35L	7.46Y	124.4	0.00	0.63	14.33	41	104	24	97	0.00	0.0	6.368	0.003	0	0	0	9
PL.36666	PD.5782	B	#4 ACSR	7.46Y	124.3	0.06	0.69	14.33	11	104	24	97	0.05	0.0	6.463	0.095	0	0	0	9
PL.57758	PL.36666	B	#4 ACSR	7.45Y	124.2	0.07	0.76	11.42	9	83	19	97	0.05	0.1	6.608	0.145	0	0	0	8
PL.57759	PL.57758	B	#4 ACSR	7.45Y	124.2	0.03	0.79	11.42	9	83	19	97	0.02	0.0	6.661	0.053	9	2	2	8
PL.35133	PL.57759	B	#4 ACSR	7.45Y	124.2	0.00	0.79	1.79	1	13	3	97	0.00	0.0	6.711	0.051	13	3	1	1
PL.33920	PL.57759	B	#4 ACSR	7.45Y	124.2	0.00	0.79	2.16	2	16	4	97	0.00	0.0	6.755	0.094	16	4	1	1
PL.35135	PL.57759	B	#4 ACSR	7.45Y	124.2	0.02	0.81	6.21	5	45	10	98	0.01	0.0	6.732	0.072	1	0	1	4
PL.34286	PL.35135	B	#4 ACSR	7.45Y	124.2	0.01	0.82	6.11	5	44	10	98	0.00	0.0	6.781	0.048	39	9	2	3
PL.33993	PL.34286	B	#4 ACSR	7.45Y	124.2	0.00	0.82	0.80	1	6	1	99	0.00	0.0	6.833	0.052	6	1	1	1
PL.57760	PL.57758	B	#4 ACSR	7.45Y	124.2	0.00	0.76	0.00	0	0	0	100	0.00	0.0	6.725	0.117	0	0	0	0
PL.34855	PL.36666	B	#2 ACSR	7.46Y	124.3	0.01	0.70	2.91	2	21	5	97	0.00	0.0	6.648	0.185	21	5	1	1
PL.35034	PL.36442	A	#4 ACSR	7.47Y	124.6	0.00	0.45	1.65	1	12	3	97	0.00	0.0	5.844	0.056	12	3	1	1
PL.35184	PL.53760	B	6 A (CWC)	7.47Y	124.6	0.01	0.42	3.47	2	25	6	97	0.00	0.0	5.758	0.073	8	2	1	2
PL.61980	PL.35184	B	#1/0 ACSR	7.47Y	124.6	0.00	0.42	2.31	1	17	4	97	0.00	0.0	5.813	0.055	17	4	1	1
PL.34884	PL.34622	B	#4 ACSR	7.49Y	124.8	0.00	0.23	4.15	3	30	7	97	0.00	0.0	4.861	0.001	0	0	0	2
PD.5034	PL.34884	B	40QA	7.49Y	124.8	0.00	0.23	4.15	10	30	7	97	0.00	0.0	4.861	0.001	0	0	0	2
PL.34885	PD.5034	B	#4 ACSR	7.49Y	124.8	0.01	0.24	4.15	3	30	7	97	0.00	0.0	4.923	0.062	20	5	1	2
PL.34886	PL.34885	B	#4 ACSR	7.49Y	124.8	0.00	0.24	1.46	1	11	2	98	0.00	0.0	5.017	0.094	11	2	1	1
PL.35055	PL.35347	C	#2 ACSR	7.49Y	124.8	0.00	0.20	1.64	1	12	3	97	0.00	0.0	4.677	0.002	0	0	0	1
PD.5193	PL.35055	C	40QA	7.49Y	124.8	0.00	0.20	1.64	4	12	3	97	0.00	0.0	4.677	0.002	0	0	0	1
PL.35056	PD.5193	C	#2 ACSR	7.49Y	124.8	0.00	0.20	1.64	1	12	3	97	0.00	0.0	4.695	0.019	12	3	1	1
PL.35370	PL.52714	A	#2 ACSR	7.49Y	124.8	0.00	0.20	7.39	4	54	12	98	0.00	0.0	4.645	0.002	0	0	0	4
PD.5033	PL.35370	A	40QA	7.49Y	124.8	0.00	0.20	7.39	18	54	12	98	0.00	0.0	4.645	0.002	0	0	0	4
PL.35371	PD.5033	A	#2 ACSR	7.49Y	124.8	0.01	0.21	7.39	4	54	12	98	0.00	0.0	4.704	0.059	20	5	2	4
PL.33721	PL.35371	A	#2 ACSR	7.49Y	124.8	0.01	0.22	4.60	3	34	8	97	0.00	0.0	4.804	0.100	17	4	1	2
PL.35880	PL.33721	A	#2 ACSR	7.49Y	124.8	0.00	0.22	2.21	1	16	4	97	0.00	0.0	4.834	0.030	16	4	1	1

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35057	PL.52714	C	#2 ACSR	7.49Y	124.8	0.00	0.20	3.69	2	27	6	98	0.00	0.0	4.645	0.002	0	0	0	4
PD.5735	PL.35057	C	40QA	7.49Y	124.8	0.00	0.20	3.69	9	27	6	98	0.00	0.0	4.645	0.002	0	0	0	4
PL.35372	PD.5735	C	#2 ACSR	7.49Y	124.8	0.00	0.20	3.69	2	27	6	98	0.00	0.0	4.679	0.034	9	2	2	4
PL.35373	PL.35372	C	#2 ACSR	7.49Y	124.8	0.00	0.20	2.52	1	18	4	98	0.00	0.0	4.760	0.080	8	2	1	2
PL.35682	PL.35373	C	#2 ACSR	7.49Y	124.8	0.00	0.21	1.42	1	10	2	98	0.00	0.0	4.791	0.032	0	0	0	1
PL.34006	PL.35682	C	#2 ACSR	7.49Y	124.8	0.00	0.21	1.42	1	10	2	98	0.00	0.0	4.827	0.035	10	2	1	1
CP.84	PL.52713	ABC	Cap (300)	7.49Y	124.8	0.00	0.18	0.00	0	0	0	100	0.00	0.0	4.561	0.035	0	0	0	0
PL.34193	PL.35875	C	#2 ACSR	7.49Y	124.8	0.00	0.16	2.92	2	21	5	97	0.00	0.0	4.480	0.019	21	5	3	3
PL.59187	PL.34502	A	#2 ACSR	7.49Y	124.9	0.00	0.12	2.70	2	20	5	97	0.00	0.0	4.255	0.002	0	0	0	3
PD.8673	PL.59187	A	30QA	7.49Y	124.9	0.00	0.12	2.70	9	20	5	97	0.00	0.0	4.255	0.002	0	0	0	3
PL.59188	PD.8673	A	#2 ACSR	7.49Y	124.9	0.00	0.12	2.70	2	20	5	97	0.00	0.0	4.282	0.027	9	2	1	3
PL.59928	PL.59188	A	#2 ACSR	7.49Y	124.9	0.00	0.12	1.43	1	10	2	98	0.00	0.0	4.307	0.024	10	2	2	2
PL.34505	PL.34501	C	#2 ACSR	7.49Y	124.9	0.00	0.11	2.71	2	20	5	97	0.00	0.0	4.222	0.002	0	0	0	2
PD.5839	PL.34505	C	40QA	7.49Y	124.9	0.00	0.11	2.71	7	20	5	97	0.00	0.0	4.222	0.002	0	0	0	2
PL.34506	PD.5839	C	#2 ACSR	7.49Y	124.9	0.00	0.11	2.71	2	20	5	97	0.00	0.0	4.247	0.025	20	5	2	2
PL.34507	PL.34501	C	#2 ACSR	7.49Y	124.9	0.00	0.11	1.39	1	10	2	98	0.00	0.0	4.222	0.002	0	0	0	1
PD.5841	PL.34507	C	50QA	7.49Y	124.9	0.00	0.11	1.39	3	10	2	98	0.00	0.0	4.222	0.002	0	0	0	1
PL.34508	PD.5841	C	#2 ACSR	7.49Y	124.9	0.00	0.11	1.39	1	10	2	98	0.00	0.0	4.264	0.043	10	2	1	1
PL.34503	PL.34501	A	#2 ACSR	7.49Y	124.9	0.00	0.11	3.95	2	29	7	97	0.00	0.0	4.222	0.002	0	0	0	1
PD.5082	PL.34503	A	40QA	7.49Y	124.9	0.00	0.11	3.95	10	29	7	97	0.00	0.0	4.222	0.002	0	0	0	1
PL.34504	PD.5082	A	#2 ACSR	7.49Y	124.9	0.00	0.11	3.95	2	29	7	97	0.00	0.0	4.235	0.013	29	7	1	1
PL.54139	PL.33414	A	#1/0 ACSR	7.49Y	124.9	0.00	0.10	7.22	3	53	12	98	0.00	0.0	4.174	0.005	0	0	0	4
PD.8133	PL.54139	A	40QA	7.49Y	124.9	0.00	0.10	7.22	18	53	12	98	0.00	0.0	4.174	0.005	0	0	0	4
PL.54140	PD.8133	A	#1/0 ACSR	7.49Y	124.9	0.00	0.10	7.22	3	53	12	98	0.00	0.0	4.203	0.029	14	3	1	4
PL.35592	PL.54140	A	#1/0 ACSR	7.49Y	124.9	0.01	0.12	5.31	2	39	9	97	0.00	0.0	4.321	0.118	0	0	0	3
PL.34500	PL.35592	A	#1/0 ACSR	7.49Y	124.9	0.00	0.12	5.31	2	39	9	97	0.00	0.0	4.352	0.031	7	2	1	3
PL.34555	PL.34500	A	#1/0 ACSR	7.49Y	124.9	0.00	0.12	4.40	2	32	7	98	0.00	0.0	4.407	0.056	14	3	1	2
PL.34556	PL.34555	A	#1/0 ACSR	7.49Y	124.9	0.00	0.12	2.46	1	18	4	98	0.00	0.0	4.433	0.026	18	4	1	1
PL.35126	PL.33413	C	#2 ACSR	7.49Y	124.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	4.187	0.066	0	0	0	0
PL.33827	PL.35701	A	#2 ACSR	7.50Y	124.9	0.00	0.06	1.21	1	9	2	98	0.00	0.0	4.033	0.003	0	0	0	1
PD.5840	PL.33827	A	40QA	7.50Y	124.9	0.00	0.06	1.21	3	9	2	98	0.00	0.0	4.033	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.33828	PD.5840	A	#2 ACSR	7.50Y	124.9	0.00	0.06	1.21	1	9	2	98	0.00	0.0	4.072	0.039	9	2	1	1
PL.34361	PL.35221	C	#2 ACSR	7.51Y	125.2	0.00	-0.20	1.95	1	14	3	98	0.00	0.0	3.738	0.061	14	3	1	1
PL.36476	PL.35189	ABC	#1/0 ACSR	7.51Y	125.2	0.03	-0.22	38.48	17	845	198	97	0.19	0.0	3.549	0.048	0	0	0	95
PL.35652	PL.36476	ABC	#1/0 ACSR	7.51Y	125.2	0.03	-0.20	36.49	16	801	188	97	0.16	0.0	3.595	0.046	15	3	2	92
PL.35653	PL.35652	ABC	#1/0 ACSR	7.51Y	125.2	0.03	-0.16	35.81	16	786	184	97	0.16	0.0	3.644	0.049	21	5	3	90
PL.35654	PL.35653	ABC	#1/0 ACSR	7.51Y	125.1	0.05	-0.11	34.84	15	764	179	97	0.26	0.0	3.726	0.082	0	0	0	87
PL.35623	PL.35654	ABC	#1/0 ACSR	7.51Y	125.1	0.00	-0.11	34.84	15	764	179	97	0.00	0.0	3.726	0.000	0	0	0	87
PD.5862	PL.35623	ABC	50L	7.51Y	125.1	0.00	-0.11	34.84	70	764	179	97	0.00	0.0	3.726	0.000	0	0	0	87
PL.35624	PD.5862	ABC	#1/0 ACSR	7.51Y	125.1	0.02	-0.09	34.84	15	764	179	97	0.12	0.0	3.763	0.036	0	0	0	87
PL.36541	PL.35624	C	6 A (CWC)	7.51Y	125.1	0.00	-0.09	1.59	1	12	3	97	0.00	0.0	3.764	0.001	0	0	0	1
PD.5077	PL.36541	C	40QA	7.51Y	125.1	0.00	-0.09	1.59	4	12	3	97	0.00	0.0	3.764	0.001	0	0	0	1
PL.36542	PD.5077	C	6 A (CWC)	7.51Y	125.1	0.00	-0.09	1.59	1	12	3	97	0.00	0.0	3.870	0.106	12	3	1	1
PL.34872	PL.36542	C	6 A (CWC)	7.51Y	125.1	0.00	-0.09	0.00	0	0	0	100	0.00	0.0	3.958	0.088	0	0	0	0
PL.36543	PL.36524	C	#2 ACSR	7.51Y	125.1	0.00	-0.09	5.08	3	37	9	97	0.00	0.0	3.764	0.001	0	0	0	3
PD.5048	PL.36543	C	30QA	7.51Y	125.1	0.00	-0.09	5.08	17	37	9	97	0.00	0.0	3.764	0.001	0	0	0	3
PL.36544	PD.5048	C	#2 ACSR	7.51Y	125.1	0.00	-0.09	5.08	3	37	9	97	0.00	0.0	3.785	0.021	11	3	1	3
PL.35622	PL.36544	C	#2 ACSR	7.51Y	125.1	0.00	-0.09	3.54	2	26	6	97	0.00	0.0	3.840	0.055	26	6	2	2
PL.36545	PL.35624	ABC	#1/0 ACSR	7.50Y	125.0	0.07	-0.02	32.62	14	715	168	97	0.34	0.0	3.884	0.122	0	0	0	83
PL.35037	PL.36545	A	6 A (CWC)	7.50Y	125.0	0.00	-0.02	5.43	4	40	9	98	0.00	0.0	3.885	0.001	0	0	0	6
PD.5078	PL.35037	A	20T	7.50Y	125.0	0.00	-0.02	5.43	0	40	9	98	0.00	0.0	3.885	0.001	0	0	0	6
PL.35038	PD.5078	A	6 A (CWC)	7.50Y	125.0	0.01	-0.01	5.43	4	40	9	98	0.00	0.0	3.915	0.030	0	0	0	6
PL.35309	PL.35038	A	6 A (CWC)	7.50Y	125.0	0.00	-0.01	5.43	4	40	9	98	0.00	0.0	3.923	0.008	0	0	0	6
PL.35310	PL.35309	A	6 A (CWC)	7.50Y	125.0	0.00	-0.01	5.43	4	40	9	98	0.00	0.0	3.956	0.033	40	9	6	6
PL.36546	PL.36545	ABC	#1/0 ACSR	7.50Y	125.0	0.04	0.02	30.81	13	675	158	97	0.19	0.0	3.958	0.073	0	0	0	77
PL.35144	PL.36546	ABC	#1/0 ACSR	7.49Y	124.9	0.10	0.12	30.81	13	675	158	97	0.47	0.1	4.145	0.187	0	0	1	77
PL.37145	PL.35144	ABC	#1/0 ACSR	7.49Y	124.9	0.03	0.15	30.49	13	667	156	97	0.12	0.0	4.195	0.050	0	0	0	75
PL.62558	PL.37145	A	6 A (CWC)	7.49Y	124.8	0.03	0.18	3.09	2	23	5	98	0.01	0.0	4.432	0.237	0	0	0	2
PL.62559	PL.62558	A	6 A (CWC)	7.49Y	124.8	0.00	0.18	0.00	0	0	0	100	0.00	0.0	4.619	0.186	0	0	0	0
PL.62560	PL.62558	A	#1/0 ACSR	7.49Y	124.8	0.00	0.18	3.09	1	23	5	98	0.00	0.0	4.434	0.001	0	0	0	2
PD.9431	PL.62560	A	15T	7.49Y	124.8	0.00	0.18	3.09	0	23	5	98	0.00	0.0	4.434	0.001	0	0	0	2
PL.62561	PD.9431	A	#1/0 ACSR	7.49Y	124.8	0.00	0.18	3.09	1	23	5	98	0.00	0.0	4.491	0.058	7	2	1	2

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.66246	PL.62561	A	#1/0 ACSR	7.49Y	124.8	0.00	0.18	2.12	1	15	4	97	0.00	0.0	4.537	0.046	15	4	1	1
PL.37146	PL.37145	ABC	#1/0 ACSR	7.49Y	124.8	0.06	0.20	29.46	13	645	150	97	0.25	0.0	4.302	0.107	5	1	2	73
PL.35879	PL.37146	ABC	#1/0 ACSR	7.49Y	124.8	0.02	0.22	29.21	13	639	149	97	0.08	0.0	4.337	0.035	7	2	2	71
PL.36697	PL.35879	ABC	#1/0 ACSR	7.48Y	124.7	0.04	0.26	28.91	13	632	147	97	0.17	0.0	4.412	0.075	0	0	0	69
PL.36698	PL.36697	ABC	#1/0 ACSR	7.48Y	124.7	0.03	0.28	28.75	13	629	146	97	0.12	0.0	4.465	0.053	7	2	1	67
PL.36480	PL.36698	ABC	#1/0 ACSR	7.48Y	124.7	0.04	0.33	28.42	12	621	145	97	0.17	0.0	4.546	0.081	3	1	1	66
PL.36044	PL.36480	ABC	#1/0 ACSR	7.48Y	124.6	0.06	0.38	26.70	12	584	136	97	0.24	0.0	4.671	0.125	0	0	0	63
PL.59112	PL.36044	ABC	#1/0 ACSR	7.48Y	124.6	0.01	0.40	13.09	6	286	66	97	0.02	0.0	4.727	0.056	28	7	3	32
PL.59114	PL.59112	ABC	#1/0 ACSR	7.48Y	124.6	0.01	0.41	11.08	5	242	56	97	0.02	0.0	4.786	0.059	0	0	0	26
PL.33697	PL.59114	ABC	#1/0 ACSR	7.47Y	124.6	0.01	0.42	11.08	5	242	56	97	0.02	0.0	4.860	0.073	27	6	3	26
PL.35044	PL.33697	ABC	#1/0 ACSR	7.47Y	124.6	0.01	0.43	8.30	4	181	42	97	0.01	0.0	4.930	0.070	5	1	2	20
PL.35045	PL.35044	ABC	#1/0 ACSR	7.47Y	124.6	0.00	0.44	8.07	4	176	41	97	0.01	0.0	4.963	0.033	0	0	0	18
PL.35046	PL.35045	A	6 A (CWC)	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	4.965	0.001	0	0	0	0
PD.5081	PL.35046	A	40QA	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	4.965	0.001	0	0	0	0
PL.34010	PD.5081	A	6 A (CWC)	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	4.986	0.022	0	0	0	0
PL.62063	PL.35045	C	6 A (CWC)	7.47Y	124.6	0.00	0.44	16.24	12	118	27	97	0.00	0.0	4.965	0.001	0	0	0	12
PD.9258	PL.62063	C	25T	7.47Y	124.6	0.00	0.44	16.24	0	118	27	97	0.00	0.0	4.965	0.001	0	0	0	12
PL.62067	PD.9258	C	6 A (CWC)	7.47Y	124.5	0.04	0.47	16.24	12	118	27	97	0.03	0.0	5.017	0.053	11	2	1	12
PL.62068	PL.62067	C	6 A (CWC)	7.47Y	124.4	0.09	0.57	14.79	11	108	25	97	0.08	0.1	5.159	0.141	0	0	0	11
PL.62064	PL.62068	C	6 A (CWC)	7.47Y	124.4	0.00	0.57	1.09	1	8	2	97	0.00	0.0	5.229	0.070	0	0	0	1
PL.35538	PL.62064	C	6 A (CWC)	7.47Y	124.4	0.01	0.58	1.09	1	8	2	97	0.00	0.0	5.444	0.216	8	2	1	1
PL.62065	PL.62068	C	6 A (CWC)	7.47Y	124.4	0.01	0.57	3.20	2	23	5	98	0.00	0.0	5.200	0.042	4	1	1	2
PL.59105	PL.62065	C	6 A (CWC)	7.47Y	124.4	0.00	0.58	2.60	2	19	4	98	0.00	0.0	5.260	0.060	19	4	1	1
PL.62066	PL.62068	C	6 A (CWC)	7.46Y	124.4	0.03	0.60	10.49	7	76	18	97	0.02	0.0	5.233	0.074	12	3	1	8
PL.63870	PL.62066	C	6 A (CWC)	7.46Y	124.4	0.02	0.62	8.90	6	65	15	97	0.01	0.0	5.277	0.045	10	2	1	7
PL.63871	PL.63870	C	6 A (CWC)	7.46Y	124.4	0.00	0.62	7.59	5	55	13	97	0.00	0.0	5.277	0.000	0	0	0	6
PL.35876	PL.63871	C	6 A (CWC)	7.46Y	124.4	0.01	0.63	5.69	4	41	10	97	0.00	0.0	5.330	0.052	0	0	0	5
PL.35877	PL.35876	C	6 A (CWC)	7.46Y	124.4	0.00	0.64	2.94	2	21	5	97	0.00	0.0	5.379	0.049	11	3	1	2
PL.35125	PL.35877	C	6 A (CWC)	7.46Y	124.4	0.00	0.64	0.00	0	0	0	100	0.00	0.0	5.424	0.045	0	0	0	0
PL.35878	PL.35877	C	6 A (CWC)	7.46Y	124.4	0.00	0.64	1.43	1	10	2	98	0.00	0.0	5.429	0.050	10	2	1	1
PL.62674	PL.35876	C	#1/0 ACSR	7.46Y	124.4	0.00	0.63	2.75	1	20	5	97	0.00	0.0	5.355	0.025	11	3	2	3

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.62675	PL.62674	C	#1/0 ACSR	7.46Y	124.4	0.00	0.63	1.18	1	9	2	98	0.00	0.0	5.370	0.015	0	0	0	1
PL.62676	PL.62675	C	#1/0 ACSR	7.46Y	124.4	0.00	0.63	1.18	1	9	2	98	0.00	0.0	5.391	0.021	9	2	1	1
PL.64785	PL.63871	C	#1/0 ACSR	7.46Y	124.4	0.00	0.62	1.90	1	14	3	98	0.00	0.0	5.320	0.043	0	0	0	1
PL.64786	PL.64785	C	#1/0 ACSR	7.46Y	124.4	0.00	0.62	1.90	1	14	3	98	0.00	0.0	5.359	0.039	14	3	1	1
PL.34035	PL.35045	ABC	6 A (CWC)	7.47Y	124.6	0.00	0.44	2.65	2	58	13	98	0.00	0.0	5.008	0.045	0	0	0	6
PL.36482	PL.34035	C	#4 ACSR	7.47Y	124.6	0.00	0.44	5.77	4	42	10	97	0.00	0.0	5.009	0.001	0	0	0	5
PD.5080	PL.36482	C	40QA	7.47Y	124.6	0.00	0.44	5.77	14	42	10	97	0.00	0.0	5.009	0.001	0	0	0	5
PL.36483	PD.5080	C	#4 ACSR	7.47Y	124.6	0.01	0.45	5.77	4	42	10	97	0.00	0.0	5.063	0.053	33	8	3	5
PL.33603	PL.36483	C	#4 ACSR	7.47Y	124.5	0.00	0.45	1.28	1	9	2	98	0.00	0.0	5.125	0.063	4	1	1	2
PL.33604	PL.33603	C	#4 ACSR	7.47Y	124.5	0.00	0.45	0.77	1	6	1	99	0.00	0.0	5.150	0.025	6	1	1	1
PL.36795	PL.34035	A	#1/0 ACSR	7.47Y	124.6	0.00	0.44	2.18	1	16	4	97	0.00	0.0	5.009	0.001	0	0	0	1
PD.5212	PL.36795	A	40QA	7.47Y	124.6	0.00	0.44	2.18	5	16	4	97	0.00	0.0	5.009	0.001	0	0	0	1
PL.36481	PD.5212	A	#1/0 ACSR	7.47Y	124.6	0.00	0.44	2.18	1	16	4	97	0.00	0.0	5.072	0.062	0	0	0	1
PL.36794	PL.36481	A	#1/0 ACSR	7.47Y	124.6	0.00	0.45	2.18	1	16	4	97	0.00	0.0	5.175	0.103	16	4	1	1
PL.36793	PL.36794	A	#1/0 ACSR	7.47Y	124.6	0.00	0.45	0.00	0	0	0	100	0.00	0.0	5.213	0.038	0	0	0	0
PL.34839	PL.34035	A	6 A (CWC)	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	5.070	0.062	0	0	0	0
PL.57553	PL.33697	C	#2 ACSR	7.47Y	124.6	0.00	0.42	4.59	3	33	8	97	0.00	0.0	4.884	0.025	13	3	1	3
PL.57554	PL.57553	C	#1/0 ACSR	7.47Y	124.6	0.00	0.43	2.86	1	21	5	97	0.00	0.0	4.931	0.047	21	5	2	2
PL.59113	PL.59112	A	#2 ACSR	7.48Y	124.6	0.00	0.40	2.16	1	16	4	97	0.00	0.0	4.728	0.002	0	0	0	3
PD.5683	PL.59113	A	40QA	7.48Y	124.6	0.00	0.40	2.16	5	16	4	97	0.00	0.0	4.728	0.002	0	0	0	3
PL.34919	PD.5683	A	#2 ACSR	7.48Y	124.6	0.00	0.40	2.16	1	16	4	97	0.00	0.0	4.765	0.036	16	4	3	3
PL.33921	PL.36044	B	6 A (CWC)	7.47Y	124.5	0.09	0.47	40.85	29	297	69	97	0.19	0.1	4.719	0.048	15	3	2	31
PL.34818	PL.33921	B	6 A (CWC)	7.47Y	124.5	0.01	0.48	6.89	5	50	12	97	0.01	0.0	4.772	0.053	10	2	1	5
PL.62556	PL.34818	B	6 A (CWC)	7.47Y	124.5	0.01	0.49	5.53	4	40	9	98	0.00	0.0	4.795	0.023	8	2	1	4
PL.62557	PL.62556	B	6 A (CWC)	7.47Y	124.5	0.00	0.49	4.45	3	32	8	97	0.00	0.0	4.823	0.028	13	3	1	3
PL.59905	PL.62557	B	#1/0 ACSR	7.47Y	124.5	0.00	0.50	2.60	1	19	4	98	0.00	0.0	4.870	0.047	14	3	1	2
PL.59906	PL.59905	B	#1/0 ACSR	7.47Y	124.5	0.00	0.50	0.72	0	5	1	98	0.00	0.0	4.929	0.059	5	1	1	1
PL.59904	PL.62557	B	#1/0 ACSR	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	4.861	0.038	0	0	0	0
PL.36348	PL.34818	B	6 A (CWC)	7.47Y	124.5	0.00	0.48	0.00	0	0	0	100	0.00	0.0	4.871	0.099	0	0	0	0
PL.35017	PL.36348	B	#2 ACSR	7.47Y	124.5	0.00	0.48	0.00	0	0	0	100	0.00	0.0	4.926	0.055	0	0	0	0
PL.35018	PL.35017	B	#2 ACSR	7.47Y	124.5	0.00	0.48	0.00	0	0	0	100	0.00	0.0	4.965	0.039	0	0	0	0

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36349	PL.36348	B	6 A (CWC)	7.47Y	124.5	0.00	0.48	0.00	0	0	0	100	0.00	0.0	5.235	0.364	0	0	0	0
PL.34943	PL.33921	B	#4 ACSR	7.47Y	124.5	0.00	0.47	3.38	3	25	6	97	0.00	0.0	4.720	0.002	0	0	0	1
PD.5268	PL.34943	B	40QA	7.47Y	124.5	0.00	0.47	3.38	8	25	6	97	0.00	0.0	4.720	0.002	0	0	0	1
PL.34944	PD.5268	B	#4 ACSR	7.47Y	124.5	0.00	0.47	3.38	3	25	6	97	0.00	0.0	4.768	0.048	25	6	1	1
PL.33379	PL.33921	B	6 A (CWC)	7.46Y	124.3	0.26	0.73	28.51	20	207	48	97	0.39	0.2	4.930	0.211	14	3	2	23
PL.33380	PL.33379	B	6 A (CWC)	7.45Y	124.2	0.05	0.79	26.55	19	193	45	97	0.08	0.0	4.978	0.048	21	5	2	21
PL.34681	PL.33380	B	6 A (CWC)	7.45Y	124.1	0.11	0.90	23.69	17	172	40	97	0.14	0.1	5.083	0.106	12	3	1	19
PL.33894	PL.34681	B	#4 ACSR	7.45Y	124.1	0.00	0.90	2.38	2	17	4	97	0.00	0.0	5.113	0.030	0	0	0	2
PL.33895	PL.33894	B	#4 ACSR	7.45Y	124.1	0.00	0.90	1.13	1	8	2	97	0.00	0.0	5.252	0.138	8	2	1	1
PL.59192	PL.33894	B	#4 ACSR	7.45Y	124.1	0.00	0.90	1.25	1	9	2	98	0.00	0.0	5.192	0.079	9	2	1	1
PL.59106	PL.34681	B	6 A (CWC)	7.44Y	124.1	0.05	0.94	19.69	14	143	33	97	0.05	0.0	5.138	0.055	4	1	1	16
PL.59107	PL.59106	B	6 A (CWC)	7.44Y	124.0	0.06	1.01	19.13	14	139	32	97	0.07	0.0	5.212	0.074	0	0	0	15
PL.56308	PL.59107	B	#4 ACSR	7.44Y	124.0	0.01	1.02	5.35	4	39	9	97	0.00	0.0	5.244	0.032	0	0	0	3
PL.56307	PL.56308	B	#4 ACSR	7.44Y	124.0	0.01	1.02	5.35	4	39	9	97	0.00	0.0	5.303	0.058	36	8	2	3
PL.56306	PL.56307	B	#4 ACSR	7.44Y	124.0	0.00	1.02	0.34	0	2	1	89	0.00	0.0	5.343	0.040	2	1	1	1
PL.56309	PL.59107	B	6 A (CWC)	7.44Y	124.0	0.04	1.04	13.78	10	100	23	97	0.03	0.0	5.269	0.056	0	0	0	12
PL.34979	PL.56309	B	#2 ACSR	7.44Y	124.0	0.00	1.04	0.85	0	6	1	99	0.00	0.0	5.312	0.043	6	1	1	1
PL.34092	PL.56309	B	#4 ACSR	7.44Y	124.0	0.01	1.05	5.04	4	37	8	98	0.00	0.0	5.307	0.038	22	5	2	3
PL.35447	PL.34092	B	#4 ACSR	7.44Y	124.0	0.00	1.05	2.04	2	15	3	98	0.00	0.0	5.327	0.020	15	3	1	1
PL.35446	PL.56309	B	6 A (CWC)	7.44Y	124.0	0.01	1.05	7.89	6	57	13	97	0.00	0.0	5.294	0.026	41	9	5	8
PL.33908	PL.35446	B	6 A (CWC)	7.44Y	123.9	0.00	1.05	2.24	2	16	4	97	0.00	0.0	5.325	0.031	16	4	3	3
PL.34088	PL.33908	B	6 A (CWC)	7.44Y	123.9	0.00	1.05	0.00	0	0	0	100	0.00	0.0	5.345	0.019	0	0	0	0
PL.34086	PL.34088	B	6 A (CWC)	7.44Y	123.9	0.00	1.05	0.00	0	0	0	100	0.00	0.0	5.382	0.037	0	0	0	0
PL.34972	PL.34088	B	#1/0 ACSR	7.44Y	123.9	0.00	1.05	0.00	0	0	0	100	0.00	0.0	5.377	0.032	0	0	0	0
PL.59115	PL.36480	A	#1/0 ACSR	7.48Y	124.7	0.00	0.33	1.59	1	12	3	97	0.00	0.0	4.587	0.041	12	3	1	1
PL.59116	PL.36480	A	#1/0 ACSR	7.48Y	124.7	0.00	0.33	3.15	1	23	5	98	0.00	0.0	4.550	0.003	0	0	0	1
PD.8672	PL.59116	A	15T	7.48Y	124.7	0.00	0.33	3.15	0	23	5	98	0.00	0.0	4.550	0.003	0	0	0	1
PL.59117	PD.8672	A	#1/0 ACSR	7.48Y	124.7	0.00	0.33	3.15	1	23	5	98	0.00	0.0	4.614	0.065	23	5	1	1
PL.36699	PL.36697	C	6 A (CWC)	7.48Y	124.7	0.00	0.26	0.47	0	3	1	95	0.00	0.0	4.414	0.002	0	0	0	2
PD.5079	PL.36699	C	40QA	7.48Y	124.7	0.00	0.26	0.47	1	3	1	95	0.00	0.0	4.414	0.002	0	0	0	2
PL.36700	PD.5079	C	6 A (CWC)	7.48Y	124.7	0.00	0.26	0.47	0	3	1	95	0.00	0.0	4.451	0.037	3	1	2	2

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34720	PL.35144	C	#4 ACSR	7.49Y	124.9	0.00	0.12	0.94	1	7	2	96	0.00	0.0	4.147	0.001	0	0	0	1
PD.5144	PL.34720	C	40QA	7.49Y	124.9	0.00	0.12	0.94	2	7	2	96	0.00	0.0	4.147	0.001	0	0	0	1
PL.36339	PD.5144	C	#4 ACSR	7.49Y	124.9	0.00	0.12	0.94	1	7	2	96	0.00	0.0	4.202	0.055	7	2	1	1
PL.33897	PL.36476	C	#2 ACSR	7.51Y	125.2	0.00	-0.22	5.98	3	44	10	98	0.00	0.0	3.588	0.039	44	10	3	3
PL.35065	PL.36127	ABC	#2 ACSR	7.52Y	125.3	0.03	-0.31	20.82	12	431	187	92	0.07	0.0	3.464	0.098	345	167	2	12
PL.34934	PL.35065	C	6 A (CWC)	7.52Y	125.3	0.00	-0.31	11.68	8	86	20	97	0.00	0.0	3.465	0.000	0	0	0	10
PD.5191	PL.34934	C	60QA	7.52Y	125.3	0.00	-0.31	11.68	19	86	20	97	0.00	0.0	3.465	0.000	0	0	0	10
PL.34935	PD.5191	C	6 A (CWC)	7.52Y	125.3	0.04	-0.27	11.68	8	86	20	97	0.02	0.0	3.539	0.074	6	1	1	10
PL.35738	PL.34935	C	6 A (CWC)	7.51Y	125.2	0.03	-0.24	10.80	8	79	18	98	0.01	0.0	3.603	0.064	19	5	1	9
PL.34730	PL.35738	C	#1/0 ACSR	7.51Y	125.2	0.00	-0.24	1.25	1	9	2	98	0.00	0.0	3.663	0.060	9	2	1	1
PL.35741	PL.35738	C	6 A (CWC)	7.51Y	125.2	0.02	-0.22	6.89	5	50	12	97	0.01	0.0	3.680	0.077	10	2	1	7
PL.35739	PL.35741	C	6 A (CWC)	7.51Y	125.2	0.01	-0.21	5.55	4	41	9	98	0.00	0.0	3.721	0.041	15	3	2	6
PL.35740	PL.35739	C	6 A (CWC)	7.51Y	125.2	0.00	-0.21	2.65	2	19	4	98	0.00	0.0	3.728	0.008	10	2	1	3
PL.35742	PL.35740	C	6 A (CWC)	7.51Y	125.2	0.00	-0.21	1.28	1	9	2	98	0.00	0.0	3.862	0.133	9	2	2	2
PL.34625	PL.35739	C	#4 ACSR	7.51Y	125.2	0.00	-0.21	0.85	1	6	1	99	0.00	0.0	3.809	0.088	6	1	1	1
PL.33383	PL.35738	C	#2 ACSR	7.51Y	125.2	0.00	-0.24	0.00	0	0	0	100	0.00	0.0	3.634	0.031	0	0	0	0
PL.34435	PL.36124	A	#4 ACSR	7.11Y	118.5	0.01	6.49	5.76	4	40	9	98	0.00	0.0	3.204	0.071	40	9	4	4
PL.34079	PL.34078	C	#4 ACSR	7.11Y	118.6	0.00	6.42	5.29	4	37	8	98	0.00	0.0	3.080	0.005	0	0	0	2
PD.5189	PL.34079	C	75QA	7.11Y	118.6	0.00	6.42	5.29	7	37	8	98	0.00	0.0	3.080	0.005	0	0	0	2
PL.34080	PD.5189	C	#4 ACSR	7.11Y	118.6	0.00	6.43	5.29	4	37	8	98	0.00	0.0	3.111	0.031	37	8	2	2
PL.34421	PL.34359	A	#4 ACSR	7.14Y	118.9	0.00	6.07	3.64	3	25	6	97	0.00	0.0	2.766	0.001	0	0	0	4
PD.5717	PL.34421	A	40QA	7.14Y	118.9	0.00	6.07	3.64	9	25	6	97	0.00	0.0	2.766	0.001	0	0	0	4
PL.34422	PD.5717	A	#4 ACSR	7.14Y	118.9	0.00	6.07	3.64	3	25	6	97	0.00	0.0	2.798	0.032	14	3	2	4
PL.34420	PL.34422	A	#4 ACSR	7.14Y	118.9	0.01	6.08	1.56	1	11	3	96	0.00	0.0	2.958	0.160	11	3	2	2
PL.34417	PL.34419	C	#2 ACSR	7.14Y	119.0	0.00	6.00	2.40	1	17	4	97	0.00	0.0	2.709	0.001	0	0	0	1
PD.5091	PL.34417	C	40QA	7.14Y	119.0	0.00	6.00	2.40	6	17	4	97	0.00	0.0	2.709	0.001	0	0	0	1
PL.34418	PD.5091	C	#2 ACSR	7.14Y	119.0	0.00	6.00	2.40	1	17	4	97	0.00	0.0	2.752	0.044	17	4	1	1
PL.59934	PL.59929	ABC	#1/0 ACSR	7.17Y	119.5	0.06	5.50	120.12	52	2512	609	97	1.13	0.0	2.268	0.030	20	5	3	286
PL.59935	PL.59934	ABC	#1/0 ACSR	7.17Y	119.4	0.05	5.55	119.17	52	2491	603	97	0.95	0.0	2.293	0.025	14	3	1	283
PL.59932	PL.59935	ABC	#1/0 ACSR	7.16Y	119.3	0.19	5.74	118.11	51	2468	597	97	3.44	0.1	2.385	0.092	0	0	0	281
PL.35223	PL.59932	ABC	#1/0 ACSR	7.14Y	118.9	0.32	6.06	116.50	51	2431	586	97	5.61	0.2	2.541	0.155	0	0	0	277

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.59922	PL.35223	B	#1/0 ACSR	7.14Y	118.9	0.00	6.07	2.99	1	21	5	97	0.00	0.0	2.558	0.017	21	5	2	2
PL.36547	PL.35223	ABC	#1/0 ACSR	7.13Y	118.9	0.08	6.15	115.50	50	2405	576	97	1.45	0.1	2.582	0.041	3	1	1	275
PL.36548	PL.36547	ABC	#1/0 ACSR	7.12Y	118.7	0.15	6.30	115.35	50	2400	574	97	2.64	0.1	2.656	0.075	17	4	2	274
REG18	PL.36548	ABC	167Kkva	7.55Y	125.8	-7.07	-0.77	114.53	52	2380	567	97	percent Boost= 5.62		Tap= 9.0					272
PL.34572	REG18	C	#4 ACSR	7.55Y	125.8	0.00	-0.77	3.69	3	27	6	98	0.00	0.0	2.658	0.001	0	0	0	3
PD.5762	PL.34572	C	75QA	7.55Y	125.8	0.00	-0.77	3.69	5	27	6	98	0.00	0.0	2.658	0.001	0	0	0	3
PL.34573	PD.5762	C	#4 ACSR	7.55Y	125.8	0.00	-0.77	3.69	3	27	6	98	0.00	0.0	2.688	0.030	9	2	1	3
PL.35673	PL.34573	C	#4 ACSR	7.55Y	125.8	0.00	-0.77	2.43	2	18	4	98	0.00	0.0	2.717	0.029	18	4	2	2
PL.35672	REG18	ABC	#1/0 ACSR	7.53Y	125.6	0.20	-0.57	106.86	46	2353	561	97	3.22	0.1	2.763	0.106	16	4	2	269
PL.35668	PL.35672	ABC	#1/0 ACSR	7.53Y	125.4	0.14	-0.43	103.54	45	2277	541	97	2.21	0.1	2.841	0.079	42	10	2	262
PL.35669	PL.35668	ABC	#1/0 ACSR	7.52Y	125.3	0.12	-0.31	98.95	43	2174	516	97	1.83	0.1	2.912	0.071	19	4	2	254
PL.34794	PL.35669	C	6 A (CWC)	7.52Y	125.3	0.02	-0.29	6.09	4	45	10	98	0.00	0.0	2.981	0.069	15	4	1	5
PL.33871	PL.34794	C	6 A (CWC)	7.52Y	125.3	0.00	-0.29	2.91	2	21	5	97	0.00	0.0	3.017	0.035	12	3	1	2
PL.33872	PL.33871	C	6 A (CWC)	7.52Y	125.3	0.00	-0.29	1.31	1	10	2	98	0.00	0.0	3.055	0.038	10	2	1	1
PL.33676	PL.34794	C	6 A (CWC)	7.52Y	125.3	0.00	-0.29	1.08	1	8	2	97	0.00	0.0	2.999	0.018	8	2	2	2
PL.35350	PL.35669	C	6 A (CWC)	7.52Y	125.3	0.00	-0.31	0.00	0	0	0	100	0.00	0.0	2.914	0.001	0	0	0	0
PD.5181	PL.35350	C	75QA	7.52Y	125.3	0.00	-0.31	0.00	0	0	0	100	0.00	0.0	2.914	0.001	0	0	0	0
PL.35351	PD.5181	C	6 A (CWC)	7.52Y	125.3	0.00	-0.31	0.00	0	0	0	100	0.00	0.0	2.958	0.044	0	0	0	0
PL.35352	PL.35669	ABC	#1/0 ACSR	7.51Y	125.1	0.19	-0.12	96.05	42	2108	499	97	2.70	0.1	3.022	0.110	8	2	2	247
PL.35353	PL.35352	ABC	#1/0 ACSR	7.50Y	125.0	0.11	-0.01	95.69	42	2098	495	97	1.58	0.1	3.087	0.065	0	0	0	245
PL.34618	PL.35353	ABC	#1/0 ACSR	7.50Y	125.0	0.05	0.04	91.89	40	2013	474	97	0.67	0.0	3.117	0.030	3	1	1	235
PL.34880	PL.34618	B	#2 ACSR	7.50Y	125.0	0.00	0.04	0.94	1	7	2	96	0.00	0.0	3.117	0.000	0	0	0	2
PD.5182	PL.34880	B	40QA	7.50Y	125.0	0.00	0.04	0.94	2	7	2	96	0.00	0.0	3.117	0.000	0	0	0	2
PL.34599	PD.5182	B	#2 ACSR	7.50Y	125.0	0.00	0.04	0.94	1	7	2	96	0.00	0.0	3.231	0.114	7	2	2	2
PL.34619	PL.34618	ABC	#1/0 ACSR	7.49Y	124.9	0.06	0.09	91.46	40	2003	471	97	0.80	0.0	3.153	0.036	8	2	1	232
PL.64362	PL.34619	ABC	#1/0 ACSR	7.49Y	124.8	0.14	0.24	91.10	40	1994	469	97	1.96	0.1	3.241	0.089	0	0	0	231
PL.64363	PL.64362	ABC	#1/0 ACSR	7.49Y	124.8	0.00	0.24	91.10	40	1992	467	97	0.00	0.0	3.241	0.000	3	1	4	231
PL.34780	PL.64363	A	6 A (CWC)	7.49Y	124.8	0.00	0.24	5.25	4	38	9	97	0.00	0.0	3.242	0.001	0	0	0	4
PD.5218	PL.34780	A	75QA	7.49Y	124.8	0.00	0.24	5.25	7	38	9	97	0.00	0.0	3.242	0.001	0	0	0	4
PL.34781	PD.5218	A	6 A (CWC)	7.48Y	124.7	0.04	0.28	5.25	4	38	9	97	0.01	0.0	3.410	0.168	0	0	0	4
PL.34600	PL.34781	A	6 A (CWC)	7.48Y	124.7	0.01	0.28	2.62	2	19	4	98	0.00	0.0	3.454	0.044	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34954	PL.34600	A	#1/0 ACSR	7.48Y	124.7	0.00	0.28	0.77	0	6	1	99	0.00	0.0	3.487	0.032	6	1	1	1
PL.35269	PL.34600	A	6 A (CWC)	7.48Y	124.7	0.00	0.28	1.86	1	14	3	98	0.00	0.0	3.523	0.068	14	3	2	2
PL.34804	PL.34781	A	#2 ACSR	7.48Y	124.7	0.00	0.28	2.62	1	19	4	98	0.00	0.0	3.526	0.115	19	4	1	1
PL.35983	PL.64363	ABC	6 A (CWC)	7.48Y	124.7	0.11	0.34	88.74	63	1940	455	97	1.60	0.1	3.272	0.031	35	8	4	221
PL.36680	PL.35983	ABC	6 A (CWC)	7.46Y	124.4	0.24	0.58	86.07	61	1880	441	97	3.52	0.2	3.344	0.072	0	0	0	216
PL.34936	PL.36680	ABC	#4 ACSR	7.46Y	124.3	0.10	0.68	83.75	64	1826	428	97	1.39	0.1	3.375	0.031	13	3	1	209
PL.34937	PL.34936	ABC	#4 ACSR	7.45Y	124.2	0.15	0.83	83.15	64	1812	424	97	2.09	0.1	3.422	0.047	3	1	1	208
PL.34104	PL.34937	ABC	#1/0 ACSR	7.44Y	124.0	0.13	0.96	77.14	34	1679	393	97	1.53	0.1	3.519	0.098	23	5	3	193
PL.35932	PL.34104	ABC	#1/0 ACSR	7.43Y	123.9	0.12	1.08	76.10	33	1655	386	97	1.42	0.1	3.613	0.093	24	6	5	190
PL.35930	PL.35932	A	#2 ACSR	7.43Y	123.9	0.00	1.09	4.17	2	30	7	97	0.00	0.0	3.652	0.040	27	6	3	4
PL.35931	PL.35930	A	#2 ACSR	7.43Y	123.9	0.00	1.09	0.47	0	3	1	95	0.00	0.0	3.689	0.037	3	1	1	1
PL.57912	PL.35931	A	#2 ACSR	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	3.734	0.045	0	0	0	0
PL.33753	PL.35932	ABC	#1/0 ACSR	7.43Y	123.9	0.02	1.10	40.68	18	884	205	97	0.10	0.0	3.635	0.022	0	0	0	105
PL.35929	PL.33753	ABC	#1/0 ACSR	7.43Y	123.9	0.00	1.10	40.68	18	884	205	97	0.00	0.0	3.636	0.001	0	0	0	105
C PD.5856	PL.35929	ABC	50L	7.43Y	123.9	0.00	1.10	40.68	81	884	205	97	0.00	0.0	3.636	0.001	0	0	0	105 C
PL.34684	PD.5856	ABC	#1/0 ACSR	7.43Y	123.9	0.02	1.12	40.68	18	884	205	97	0.13	0.0	3.666	0.030	20	5	2	105
PL.34685	PL.34684	ABC	#1/0 ACSR	7.43Y	123.8	0.03	1.15	36.19	16	786	183	97	0.16	0.0	3.713	0.047	8	2	2	98
PL.59479	PL.34685	A	6 A (CWC)	7.43Y	123.8	0.01	1.16	59.81	43	433	101	97	0.03	0.0	3.716	0.003	0	0	0	52
PD.8906	PL.59479	A	40T	7.43Y	123.8	0.00	1.16	59.81	0	433	101	97	0.00	0.0	3.716	0.003	0	0	0	52
PL.59480	PD.8906	A	6 A (CWC)	7.42Y	123.6	0.20	1.36	59.81	43	433	101	97	0.64	0.1	3.792	0.076	14	3	1	52
PL.59476	PL.59480	A	#2 ACSR	7.42Y	123.6	0.00	1.36	2.54	1	18	4	98	0.00	0.0	3.808	0.016	18	4	1	1
PL.59478	PL.59480	A	#2 ACSR	7.42Y	123.6	0.01	1.37	10.53	6	76	18	97	0.01	0.0	3.839	0.047	26	6	2	9
PL.34570	PL.59478	A	#2 ACSR	7.42Y	123.6	0.00	1.38	6.96	4	50	12	97	0.00	0.0	3.865	0.026	20	5	2	7
PL.34081	PL.34570	A	#2 ACSR	7.42Y	123.6	0.00	1.38	4.25	2	31	7	98	0.00	0.0	3.883	0.017	0	0	0	5
PL.34150	PL.34081	A	#2 ACSR	7.42Y	123.6	0.00	1.38	4.25	2	31	7	98	0.00	0.0	3.890	0.007	12	3	3	5
PL.52479	PL.34150	A	#2 ACSR	7.42Y	123.6	0.00	1.38	2.65	2	19	4	98	0.00	0.0	3.933	0.043	19	4	2	2
PL.59477	PL.59480	A	6 A (CWC)	7.41Y	123.5	0.10	1.46	44.86	32	324	75	97	0.24	0.1	3.842	0.050	12	3	1	41
PL.34812	PL.59477	A	6 A (CWC)	7.41Y	123.5	0.06	1.52	43.18	31	312	72	97	0.14	0.0	3.876	0.034	46	11	4	40
PL.35647	PL.34812	A	6 A (CWC)	7.41Y	123.4	0.04	1.56	20.66	15	149	35	97	0.04	0.0	3.919	0.043	5	1	2	26
PL.35648	PL.35647	A	6 A (CWC)	7.40Y	123.4	0.06	1.62	19.95	14	144	33	97	0.06	0.0	3.987	0.067	21	5	4	24
PL.33849	PL.35648	A	6 A (CWC)	7.40Y	123.4	0.01	1.63	4.03	3	29	7	97	0.00	0.0	4.031	0.045	10	2	1	4

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.33850	PL.33849	A	6 A (CWC)	7.40Y	123.4	0.00	1.63	2.63	2	19	4	98	0.00	0.0	4.096	0.065	19	4	2	3
PL.36153	PL.33850	A	6 A (CWC)	7.40Y	123.4	0.00	1.63	0.01	0	0	0	100	0.00	0.0	4.114	0.017	0	0	1	1
PL.35651	PL.35648	A	#4 ACSR	7.40Y	123.4	0.02	1.64	9.79	8	71	16	98	0.01	0.0	4.033	0.046	9	2	2	13
PL.34752	PL.35651	A	#4 ACSR	7.40Y	123.4	0.01	1.65	4.96	4	36	8	98	0.00	0.0	4.095	0.062	17	4	2	7
PL.52537	PL.34752	A	#4 ACSR	7.40Y	123.3	0.00	1.65	1.92	1	14	3	98	0.00	0.0	4.147	0.052	7	2	2	4
PL.52538	PL.52537	A	#4 ACSR	7.40Y	123.3	0.00	1.65	0.91	1	7	2	96	0.00	0.0	4.211	0.064	7	2	2	2
PL.55977	PL.34752	A	#1/0 ACSR	7.40Y	123.4	0.00	1.65	0.62	0	4	1	97	0.00	0.0	4.146	0.051	4	1	1	1
PL.35649	PL.35651	A	#4 ACSR	7.40Y	123.4	0.00	1.64	3.53	3	25	6	97	0.00	0.0	4.061	0.028	13	3	3	4
PL.35650	PL.35649	A	#4 ACSR	7.40Y	123.4	0.00	1.64	1.71	1	12	3	97	0.00	0.0	4.082	0.020	12	3	1	1
PL.55975	PL.35648	A	6 A (CWC)	7.40Y	123.4	0.01	1.62	3.19	2	23	5	98	0.00	0.0	4.035	0.048	10	2	1	3
PL.55976	PL.55975	A	6 A (CWC)	7.40Y	123.4	0.00	1.63	1.74	1	13	3	97	0.00	0.0	4.081	0.047	7	2	1	2
PL.34485	PL.55976	A	6 A (CWC)	7.40Y	123.4	0.00	1.63	0.72	1	5	1	98	0.00	0.0	4.162	0.081	0	0	0	1
PL.34486	PL.34485	A	6 A (CWC)	7.40Y	123.4	0.00	1.63	0.72	1	5	1	98	0.00	0.0	4.209	0.046	5	1	1	1
PL.35659	PL.34812	A	#4 ACSR	7.41Y	123.4	0.04	1.56	16.21	12	117	27	97	0.03	0.0	3.938	0.062	41	10	3	10
PL.34808	PL.35659	A	#4 ACSR	7.41Y	123.4	0.01	1.56	3.84	3	28	6	98	0.00	0.0	4.004	0.067	28	6	3	3
PL.35660	PL.35659	A	#4 ACSR	7.41Y	123.4	0.01	1.57	6.67	5	48	11	97	0.00	0.0	3.994	0.057	12	3	1	4
PL.34480	PL.35660	A	#2 ACSR	7.41Y	123.4	0.00	1.57	1.39	1	10	2	98	0.00	0.0	4.028	0.034	10	2	1	1
PL.35324	PL.35660	A	#4 ACSR	7.41Y	123.4	0.01	1.58	3.56	3	26	6	97	0.00	0.0	4.055	0.060	11	3	1	2
PL.34896	PL.35324	A	#2 ACSR	7.41Y	123.4	0.00	1.58	2.03	1	15	3	98	0.00	0.0	4.089	0.034	15	3	1	1
PL.64414	PL.34685	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.16	15.90	7	345	80	97	0.02	0.0	3.749	0.036	17	4	2	44
PL.64415	PL.64414	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.17	15.11	7	328	76	97	0.02	0.0	3.775	0.026	0	0	0	42
PL.36581	PL.64415	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.18	15.11	7	328	76	97	0.03	0.0	3.821	0.046	3	1	1	42
PL.36582	PL.36581	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.19	14.54	6	316	73	97	0.02	0.0	3.859	0.039	17	4	3	40
PL.36585	PL.36582	A	6 A (CWC)	7.43Y	123.8	0.00	1.19	2.64	2	19	4	98	0.00	0.0	3.860	0.001	0	0	0	2
PD.5092	PL.36585	A	40QA	7.43Y	123.8	0.00	1.19	2.64	7	19	4	98	0.00	0.0	3.860	0.001	0	0	0	2
PL.36586	PD.5092	A	6 A (CWC)	7.43Y	123.8	0.00	1.19	2.64	2	19	4	98	0.00	0.0	3.886	0.026	19	4	2	2
PL.36679	PL.36582	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.20	12.86	6	279	65	97	0.03	0.0	3.922	0.063	21	5	2	35
PL.33120	PL.36679	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.21	10.66	5	231	54	97	0.01	0.0	3.953	0.030	0	0	0	31
PL.34130	PL.33120	ABC	#1/0 ACSR	7.43Y	123.8	0.02	1.23	10.66	5	231	54	97	0.03	0.0	4.040	0.087	7	2	1	31
PL.35535	PL.34130	A	#4 ACSR	7.43Y	123.8	0.00	1.23	2.76	2	20	5	97	0.00	0.0	4.041	0.001	0	0	0	2
PD.5715	PL.35535	A	40QA	7.43Y	123.8	0.00	1.23	2.76	7	20	5	97	0.00	0.0	4.041	0.001	0	0	0	2

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34691	PD.5715	A	#4 ACSR	7.43Y	123.8	0.00	1.23	2.76	2	20	5	97	0.00	0.0	4.098	0.057	12	3	1	2
PL.35069	PL.34691	A	#2 ACSR	7.43Y	123.8	0.00	1.23	0.00	0	0	0	100	0.00	0.0	4.133	0.035	0	0	0	0
PL.34692	PL.34691	A	#4 ACSR	7.43Y	123.8	0.00	1.23	1.13	1	8	2	97	0.00	0.0	4.137	0.038	8	2	1	1
PL.35976	PL.34130	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.24	9.39	4	204	47	97	0.02	0.0	4.117	0.077	26	6	3	28
PL.35977	PL.35976	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.25	8.20	4	178	41	97	0.01	0.0	4.175	0.057	0	0	0	25
PL.52482	PL.35977	ABC	#1/0 ACSR	7.42Y	123.7	0.01	1.25	8.20	4	178	41	97	0.01	0.0	4.221	0.047	0	0	0	25
PL.52484	PL.52482	A	#4 ACSR	7.42Y	123.7	0.00	1.25	3.01	2	22	5	98	0.00	0.0	4.222	0.001	0	0	0	2
PD.5763	PL.52484	A	40QA	7.42Y	123.7	0.00	1.25	3.01	8	22	5	98	0.00	0.0	4.222	0.001	0	0	0	2
PL.35975	PD.5763	A	#4 ACSR	7.42Y	123.7	0.01	1.27	3.01	2	22	5	98	0.00	0.0	4.317	0.095	0	0	0	2
PL.33761	PL.35975	A	#4 ACSR	7.42Y	123.7	0.00	1.27	3.01	2	22	5	98	0.00	0.0	4.347	0.029	22	5	2	2
PL.52483	PL.52482	A	#4 ACSR	7.42Y	123.7	0.00	1.26	3.80	3	27	6	98	0.00	0.0	4.281	0.059	27	6	3	3
PL.52552	PL.52482	C	#4 ACSR	7.42Y	123.7	0.00	1.25	1.13	1	8	2	97	0.00	0.0	4.222	0.001	0	0	0	1
PD.8047	PL.52552	C	40QA	7.42Y	123.7	0.00	1.25	1.13	3	8	2	97	0.00	0.0	4.222	0.001	0	0	0	1
PL.52557	PD.8047	C	#4 ACSR	7.42Y	123.7	0.00	1.25	1.13	1	8	2	97	0.00	0.0	4.271	0.049	8	2	1	1
PL.52559	PL.52482	ABC	#4 ACSR	7.42Y	123.7	0.01	1.27	5.10	4	111	26	97	0.01	0.0	4.299	0.078	0	0	0	14
PL.62680	PL.52559	C	#1/0 ACSR	7.42Y	123.7	0.00	1.27	2.11	1	15	4	97	0.00	0.0	4.324	0.025	12	3	1	2
PL.62681	PL.62680	C	#1/0 ACSR	7.42Y	123.7	0.00	1.27	0.39	0	3	1	95	0.00	0.0	4.369	0.046	3	1	1	1
PL.52560	PL.52559	ABC	#4 ACSR	7.42Y	123.7	0.05	1.32	4.40	3	96	22	97	0.04	0.0	4.625	0.326	0	0	0	12
PL.52543	PL.52560	ABC	#4 ACSR	7.42Y	123.7	0.01	1.33	3.16	2	69	16	97	0.00	0.0	4.698	0.073	0	0	0	8
PL.52546	PL.52543	ABC	#4 ACSR	7.42Y	123.7	0.00	1.33	2.26	2	49	11	98	0.00	0.0	4.737	0.040	0	0	0	6
PL.52549	PL.52546	ABC	#4 ACSR	7.42Y	123.7	0.00	1.33	0.99	1	22	5	98	0.00	0.0	4.757	0.020	0	0	0	4
PL.52555	PL.52549	ABC	#4 ACSR	7.42Y	123.7	0.00	1.34	0.66	1	14	3	98	0.00	0.0	4.784	0.027	2	0	1	2
PL.52556	PL.52555	ABC	#4 ACSR	7.42Y	123.7	0.00	1.34	0.57	0	12	3	97	0.00	0.0	4.820	0.036	12	3	1	1
PL.52550	PL.52549	A	#2 ACSR	7.42Y	123.7	0.00	1.33	0.99	1	7	2	96	0.00	0.0	4.758	0.001	0	0	0	2
PD.8046	PL.52550	A	40QA	7.42Y	123.7	0.00	1.33	0.99	2	7	2	96	0.00	0.0	4.758	0.001	0	0	0	2
PL.52551	PD.8046	A	#2 ACSR	7.42Y	123.7	0.00	1.34	0.99	1	7	2	96	0.00	0.0	4.803	0.045	0	0	1	2
PL.52375	PL.52551	A	#2 ACSR	7.42Y	123.7	0.00	1.34	0.98	1	7	2	96	0.00	0.0	4.901	0.097	7	2	1	1
PL.52547	PL.52546	A	#4 ACSR	7.42Y	123.7	0.00	1.33	3.81	3	28	6	98	0.00	0.0	4.738	0.001	0	0	0	2
PD.8045	PL.52547	A	40QA	7.42Y	123.7	0.00	1.33	3.81	10	28	6	98	0.00	0.0	4.738	0.001	0	0	0	2
PL.52548	PD.8045	A	#4 ACSR	7.42Y	123.7	0.00	1.34	3.81	3	28	6	98	0.00	0.0	4.751	0.013	28	6	2	2
PL.52544	PL.52543	A	#4 ACSR	7.42Y	123.7	0.00	1.33	2.68	2	19	4	98	0.00	0.0	4.699	0.001	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.8044	PL.52544	A	40QA	7.42Y	123.7	0.00	1.33	2.68	7	19	4	98	0.00	0.0	4.699	0.001	0	0	0	2
PL.52545	PD.8044	A	#4 ACSR	7.42Y	123.7	0.00	1.33	2.68	2	19	4	98	0.00	0.0	4.725	0.027	19	4	2	2
PL.52542	PL.52560	C	#2 ACSR	7.42Y	123.7	0.00	1.32	3.73	2	27	6	98	0.00	0.0	4.626	0.001	0	0	0	4
PD.8043	PL.52542	C	40QA	7.42Y	123.7	0.00	1.32	3.73	9	27	6	98	0.00	0.0	4.626	0.001	0	0	0	4
PL.52568	PD.8043	C	#2 ACSR	7.42Y	123.7	0.00	1.33	3.73	2	27	6	98	0.00	0.0	4.655	0.029	0	0	1	4
PL.52564	PL.52568	C	#2 ACSR	7.42Y	123.7	0.00	1.33	3.73	2	27	6	98	0.00	0.0	4.690	0.035	0	0	0	3
PL.52561	PL.52564	C	#2 ACSR	7.42Y	123.7	0.00	1.33	3.73	2	27	6	98	0.00	0.0	4.724	0.034	0	0	1	3
PL.55973	PL.52561	C	#2 ACSR	7.42Y	123.7	0.00	1.34	3.71	2	27	6	98	0.00	0.0	4.769	0.045	12	3	1	2
PL.55974	PL.55973	C	#2 ACSR	7.42Y	123.7	0.00	1.34	2.10	1	15	4	97	0.00	0.0	4.792	0.023	15	4	1	1
PL.52567	PL.52568	C	#2 ACSR	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	4.693	0.038	0	0	0	0
PL.52572	PL.52482	C	#2 ACSR	7.42Y	123.7	0.00	1.25	1.36	1	10	2	98	0.00	0.0	4.266	0.044	10	2	5	5
PL.33121	PL.36679	A	6 A (CWC)	7.43Y	123.8	0.00	1.20	3.66	3	26	6	97	0.00	0.0	3.923	0.001	0	0	0	2
PD.5716	PL.33121	A	50QA	7.43Y	123.8	0.00	1.20	3.66	7	26	6	97	0.00	0.0	3.923	0.001	0	0	0	2
PL.34131	PD.5716	A	6 A (CWC)	7.43Y	123.8	0.00	1.21	3.66	3	26	6	97	0.00	0.0	3.953	0.030	13	3	1	2
PL.34129	PL.34131	A	6 A (CWC)	7.43Y	123.8	0.00	1.21	1.91	1	14	3	98	0.00	0.0	3.986	0.032	14	3	1	1
PL.36583	PL.36581	C	6 A (CWC)	7.43Y	123.8	0.00	1.18	1.29	1	9	2	98	0.00	0.0	3.822	0.001	0	0	0	1
PD.5185	PL.36583	C	25QA	7.43Y	123.8	0.00	1.18	1.29	5	9	2	98	0.00	0.0	3.822	0.001	0	0	0	1
PL.36584	PD.5185	C	6 A (CWC)	7.43Y	123.8	0.00	1.18	1.29	1	9	2	98	0.00	0.0	3.849	0.028	9	2	1	1
PL.62093	PL.34684	C	#2 ACSR	7.43Y	123.9	0.00	1.12	10.68	6	77	18	97	0.00	0.0	3.669	0.003	0	0	0	5
PD.9361	PL.62093	C	20T	7.43Y	123.9	0.00	1.12	10.68	0	77	18	97	0.00	0.0	3.669	0.003	0	0	0	5
PL.62094	PD.9361	C	#2 ACSR	7.43Y	123.9	0.00	1.13	10.68	6	77	18	97	0.00	0.0	3.687	0.018	77	18	5	5
PL.52812	PL.35932	ABC	#1/0 ACSR	7.43Y	123.9	0.00	1.09	32.91	14	715	167	97	0.01	0.0	3.617	0.005	0	0	0	76
PL.52813	PL.52812	ABC	#1/0 ACSR	7.43Y	123.9	0.06	1.14	32.91	14	715	167	97	0.28	0.0	3.716	0.099	15	3	2	76
PL.34771	PL.52813	C	#2 ACSR	7.43Y	123.9	0.00	1.14	2.40	1	17	4	97	0.00	0.0	3.718	0.002	0	0	0	1
PD.5186	PL.34771	C	40QA	7.43Y	123.9	0.00	1.14	2.40	6	17	4	97	0.00	0.0	3.718	0.002	0	0	0	1
PL.34777	PD.5186	C	#2 ACSR	7.43Y	123.9	0.00	1.15	2.40	1	17	4	97	0.00	0.0	3.755	0.037	17	4	1	1
PL.35407	PL.52813	ABC	#1/0 ACSR	7.43Y	123.8	0.06	1.20	31.44	14	683	159	97	0.28	0.0	3.825	0.109	30	7	2	73
PL.35408	PL.35407	ABC	#1/0 ACSR	7.43Y	123.8	0.04	1.24	30.05	13	652	152	97	0.17	0.0	3.899	0.074	21	5	2	71
PL.36775	PL.35408	C	6 A (CWC)	7.43Y	123.8	0.00	1.24	3.92	3	28	7	97	0.00	0.0	3.900	0.001	0	0	0	2
PD.5187	PL.36775	C	75QA	7.43Y	123.8	0.00	1.24	3.92	5	28	7	97	0.00	0.0	3.900	0.001	0	0	0	2
PL.36776	PD.5187	C	6 A (CWC)	7.43Y	123.8	0.01	1.25	3.92	3	28	7	97	0.00	0.0	3.958	0.059	28	7	2	2

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34719	PL.35408	C	6 A (CWC)	7.43Y	123.8	0.01	1.25	3.19	2	23	5	98	0.00	0.0	3.976	0.077	12	3	2	4
PL.66247	PL.34719	C	6 A (CWC)	7.43Y	123.8	0.00	1.25	1.48	1	11	2	98	0.00	0.0	3.976	0.000	0	0	0	2
PL.66248	PL.66247	C	6 A (CWC)	7.42Y	123.7	0.00	1.25	1.48	1	11	2	98	0.00	0.0	4.028	0.052	11	2	2	2
PL.34938	PL.35408	ABC	#1/0 ACSR	7.42Y	123.7	0.06	1.31	26.70	12	579	135	97	0.26	0.0	4.037	0.138	0	0	0	63
PL.35002	PL.34938	C	#4 ACSR	7.42Y	123.7	0.00	1.31	5.50	4	40	9	98	0.00	0.0	4.037	0.001	0	0	0	4
PD.5188	PL.35002	C	75QA	7.42Y	123.7	0.00	1.31	5.50	7	40	9	98	0.00	0.0	4.037	0.001	0	0	0	4
PL.35003	PD.5188	C	#4 ACSR	7.42Y	123.6	0.05	1.36	5.50	4	40	9	98	0.01	0.0	4.240	0.203	0	0	0	4
PL.34072	PL.35003	C	#4 ACSR	7.42Y	123.6	0.00	1.36	3.12	2	23	5	98	0.00	0.0	4.280	0.040	23	5	3	3
PL.35593	PL.35003	C	#4 ACSR	7.42Y	123.6	0.01	1.37	2.38	2	17	4	97	0.00	0.0	4.334	0.093	0	0	0	1
PL.35594	PL.35593	C	#4 ACSR	7.42Y	123.6	0.00	1.37	2.38	2	17	4	97	0.00	0.0	4.384	0.050	17	4	1	1
PL.35137	PL.34938	ABC	6 A (CWC)	7.42Y	123.6	0.06	1.37	24.87	18	539	125	97	0.25	0.0	4.099	0.062	17	4	1	59
PL.35183	PL.35137	ABC	#1/0 ACSR	7.42Y	123.6	0.03	1.40	22.72	10	492	115	97	0.11	0.0	4.180	0.081	0	0	0	53
PL.34657	PL.35183	ABC	#1/0 ACSR	7.42Y	123.6	0.00	1.40	22.72	10	492	114	97	0.00	0.0	4.181	0.001	0	0	0	53
PD.5787	PL.34657	ABC	50L	7.42Y	123.6	0.00	1.40	22.72	45	492	114	97	0.00	0.0	4.181	0.001	0	0	0	53
PL.34658	PD.5787	ABC	#1/0 ACSR	7.42Y	123.6	0.01	1.40	22.72	10	492	114	97	0.02	0.0	4.196	0.015	11	3	1	53
PL.35000	PL.34658	ABC	#1/0 ACSR	7.42Y	123.6	0.01	1.41	21.38	9	463	108	97	0.03	0.0	4.223	0.028	20	5	1	49
PL.34653	PL.35000	ABC	#1/0 ACSR	7.41Y	123.6	0.01	1.42	18.68	8	405	94	97	0.02	0.0	4.245	0.021	0	0	0	44
PL.34654	PL.34653	ABC	#1/0 ACSR	7.41Y	123.6	0.03	1.45	18.68	8	405	94	97	0.07	0.0	4.324	0.080	0	0	0	44
PL.34652	PL.34654	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.46	18.66	8	404	94	97	0.03	0.0	4.360	0.035	13	3	1	43
PL.34655	PL.34652	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.47	18.05	8	391	91	97	0.03	0.0	4.397	0.037	0	0	0	42
PL.34656	PL.34655	ABC	#1/0 ACSR	7.41Y	123.5	0.02	1.49	18.05	8	391	91	97	0.05	0.0	4.460	0.063	0	0	0	42
PL.58769	PL.34656	C	6 A (CWC)	7.41Y	123.5	0.00	1.49	9.56	7	69	16	97	0.00	0.0	4.464	0.004	0	0	0	6
PD.8735	PL.58769	C	25T	7.41Y	123.5	0.00	1.49	9.56	0	69	16	97	0.00	0.0	4.464	0.004	0	0	0	6
PL.58770	PD.8735	C	6 A (CWC)	7.41Y	123.5	0.03	1.52	9.56	7	69	16	97	0.01	0.0	4.537	0.073	19	4	2	6
PL.36048	PL.58770	C	6 A (CWC)	7.41Y	123.5	0.01	1.53	2.65	2	19	4	98	0.00	0.0	4.728	0.191	19	4	1	1
PL.34290	PL.58770	C	#4 ACSR	7.41Y	123.5	0.01	1.53	4.31	3	31	7	98	0.00	0.0	4.606	0.069	19	4	1	3
PL.34291	PL.34290	C	#4 ACSR	7.41Y	123.5	0.00	1.53	1.64	1	12	3	97	0.00	0.0	4.631	0.025	12	3	2	2
PL.35694	PL.34656	ABC	#1/0 ACSR	7.41Y	123.5	0.05	1.54	14.86	6	322	75	97	0.10	0.0	4.633	0.173	0	0	0	36
PL.35115	PL.35694	C	#4 ACSR	7.41Y	123.5	0.00	1.54	3.88	3	28	6	98	0.00	0.0	4.691	0.058	28	6	2	2
PL.35107	PL.35694	ABC	#1/0 ACSR	7.41Y	123.4	0.05	1.58	13.57	6	294	68	97	0.09	0.0	4.829	0.196	5	1	1	34
PL.34351	PL.35107	C	6 A (CWC)	7.40Y	123.4	0.00	1.58	2.29	2	16	4	97	0.00	0.0	4.866	0.036	16	4	4	4

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35108	PL.35107	ABC	#1/0 ACSR	7.40Y	123.4	0.02	1.60	12.58	5	272	63	97	0.03	0.0	4.900	0.071	9	2	1	29
PL.36693	PL.35108	ABC	#1/0 ACSR	7.40Y	123.4	0.01	1.61	11.46	5	248	58	97	0.02	0.0	4.969	0.069	0	0	0	26
PL.36694	PL.36693	ABC	#1/0 ACSR	7.40Y	123.4	0.01	1.62	11.46	5	248	58	97	0.02	0.0	5.026	0.057	24	6	2	26
PL.34356	PL.36694	C	#2 ACSR	7.40Y	123.3	0.09	1.71	28.88	17	208	48	97	0.13	0.1	5.125	0.099	10	2	1	21
PL.33385	PL.34356	C	#2 ACSR	7.40Y	123.3	0.00	1.71	1.44	1	10	2	98	0.00	0.0	5.174	0.049	10	2	1	1
PL.33388	PL.34356	C	#2 ACSR	7.39Y	123.2	0.06	1.77	26.05	15	188	44	97	0.08	0.0	5.201	0.076	11	3	1	19
PL.59297	PL.33388	C	#4 ACSR	7.39Y	123.2	0.00	1.77	2.58	2	19	4	98	0.00	0.0	5.203	0.003	0	0	0	2
PD.8775	PL.59297	C	30T	7.39Y	123.2	0.00	1.77	2.58	0	19	4	98	0.00	0.0	5.203	0.003	0	0	0	2
PL.59298	PD.8775	C	#4 ACSR	7.39Y	123.2	0.01	1.78	2.58	2	19	4	98	0.00	0.0	5.310	0.107	9	2	1	2
PL.36191	PL.59298	C	#4 ACSR	7.39Y	123.2	0.00	1.78	1.29	1	9	2	98	0.00	0.0	5.378	0.068	0	0	0	1
PL.36192	PL.36191	C	#4 ACSR	7.39Y	123.2	0.00	1.78	1.29	1	9	2	98	0.00	0.0	5.457	0.078	9	2	1	1
PL.36189	PL.33388	C	#2 ACSR	7.39Y	123.2	0.06	1.82	21.88	13	158	37	97	0.06	0.0	5.290	0.089	22	5	2	16
PL.36190	PL.36189	C	#2 ACSR	7.39Y	123.1	0.03	1.85	18.89	11	136	32	97	0.03	0.0	5.337	0.047	12	3	1	14
PL.34660	PL.36190	C	#2 ACSR	7.39Y	123.1	0.01	1.86	17.25	10	124	29	97	0.01	0.0	5.363	0.026	74	17	7	13
PL.34659	PL.34660	C	#2 ACSR	7.39Y	123.1	0.01	1.87	6.97	4	50	12	97	0.00	0.0	5.406	0.042	0	0	0	6
PL.59943	PL.34659	C	#2 ACSR	7.39Y	123.1	0.01	1.88	6.97	4	50	12	97	0.00	0.0	5.481	0.075	15	3	2	6
PL.62540	PL.59943	C	#2 ACSR	7.39Y	123.1	0.00	1.89	4.93	3	35	8	97	0.00	0.0	5.510	0.029	15	4	1	4
PL.62539	PL.62540	C	#4 ACSR	7.39Y	123.1	0.01	1.90	2.81	2	20	5	97	0.00	0.0	5.599	0.089	0	0	0	3
PL.61975	PL.62539	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	2.68	1	19	4	98	0.00	0.0	5.625	0.026	19	4	1	1
PL.62702	PL.62539	C	#4 ACSR	7.39Y	123.1	0.00	1.90	0.13	0	1	0	100	0.00	0.0	5.707	0.108	0	0	0	2
PL.62701	PL.62702	C	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.13	0	1	0	100	0.00	0.0	5.745	0.038	1	0	1	1
PL.62703	PL.62702	C	#4 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	5.801	0.095	0	0	1	1
PL.36695	PL.36694	C	#4 ACSR	7.40Y	123.4	0.01	1.63	2.20	2	16	4	97	0.00	0.0	5.124	0.098	4	1	1	3
PL.36696	PL.36695	C	#4 ACSR	7.40Y	123.4	0.00	1.63	0.25	0	2	0	100	0.00	0.0	5.174	0.050	2	0	1	1
PL.35662	PL.36695	C	#2 ACSR	7.40Y	123.4	0.00	1.63	1.35	1	10	2	98	0.00	0.0	5.155	0.031	10	2	1	1
PL.36347	PL.35108	C	#2 ACSR	7.40Y	123.4	0.01	1.61	2.04	1	15	3	98	0.00	0.0	5.022	0.122	0	0	0	2
PL.57762	PL.36347	C	#2 ACSR	7.40Y	123.4	0.00	1.61	2.04	1	15	3	98	0.00	0.0	5.064	0.042	0	0	1	2
PL.57764	PL.57762	C	#1/0 ACSR	7.40Y	123.4	0.00	1.61	2.04	1	15	3	98	0.00	0.0	5.087	0.023	0	0	0	1
PL.57763	PL.57764	C	#1/0 ACSR	7.40Y	123.4	0.00	1.61	2.04	1	15	3	98	0.00	0.0	5.131	0.044	0	0	0	1
PL.57766	PL.57763	C	#1/0 ACSR	7.40Y	123.4	0.00	1.61	2.04	1	15	3	98	0.00	0.0	5.134	0.003	0	0	0	1
PD.8384	PL.57766	C	15T	7.40Y	123.4	0.00	1.61	2.04	0	15	3	98	0.00	0.0	5.134	0.003	0	0	0	1

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.57765	PD.8384	C	#1/0 ACSR	7.40Y	123.4	0.00	1.61	2.04	1	15	3	98	0.00	0.0	5.163	0.029	0	0	0	1
PL.57761	PL.57765	C	#1/0 ACSR	7.40Y	123.4	0.00	1.62	2.04	1	15	3	98	0.00	0.0	5.220	0.057	0	0	0	1
PL.57476	PL.57761	C	#1/0 ACSR	7.40Y	123.4	0.00	1.62	2.04	1	15	3	98	0.00	0.0	5.273	0.052	15	3	1	1
PL.35001	PL.34654	C	#2 ACSR	7.41Y	123.6	0.00	1.45	0.04	0	0	0	100	0.00	0.0	4.326	0.001	0	0	0	1
PD.5764	PL.35001	C	40QA	7.41Y	123.6	0.00	1.45	0.04	0	0	0	100	0.00	0.0	4.326	0.001	0	0	0	1
PL.35833	PD.5764	C	#2 ACSR	7.41Y	123.6	0.00	1.45	0.04	0	0	0	100	0.00	0.0	4.381	0.056	0	0	0	1
PL.35834	PL.35833	C	#2 ACSR	7.41Y	123.6	0.00	1.45	0.04	0	0	0	100	0.00	0.0	4.393	0.012	0	0	1	1
PL.35226	PL.35000	C	#2 ACSR	7.41Y	123.6	0.01	1.42	5.30	3	38	9	97	0.00	0.0	4.311	0.088	38	9	3	3
PL.52374	PL.35000	C	6 A (CWC)	7.42Y	123.6	0.00	1.41	0.05	0	0	0	100	0.00	0.0	4.252	0.029	0	0	1	1
PL.35197	PL.34658	C	#4 ACSR	7.42Y	123.6	0.01	1.41	2.44	2	18	4	98	0.00	0.0	4.333	0.138	18	4	3	3
PL.66646	PL.35137	C	6 A (CWC)	7.42Y	123.6	0.00	1.37	4.09	3	30	7	97	0.00	0.0	4.102	0.003	0	0	0	5
PD.10405	PL.66646	C	25T	7.42Y	123.6	0.00	1.37	4.09	0	30	7	97	0.00	0.0	4.102	0.003	0	0	0	5
PL.66647	PD.10405	C	6 A (CWC)	7.42Y	123.6	0.02	1.38	4.09	3	30	7	97	0.00	0.0	4.203	0.101	0	0	0	5
PL.35196	PL.66647	C	6 A (CWC)	7.42Y	123.6	0.00	1.39	1.02	1	7	2	96	0.00	0.0	4.257	0.054	7	2	1	1
PL.64359	PL.66647	C	6 A (CWC)	7.42Y	123.6	0.01	1.40	3.06	2	22	5	98	0.00	0.0	4.296	0.093	0	0	0	4
PL.64358	PL.64359	C	6 A (CWC)	7.42Y	123.6	0.00	1.40	0.00	0	0	0	100	0.00	0.0	4.444	0.148	0	0	0	0
PL.64361	PL.64359	C	6 A (CWC)	7.42Y	123.6	0.00	1.40	0.24	0	2	0	100	0.00	0.0	4.405	0.109	2	0	1	1
PL.64360	PL.64359	C	#4 ACSR	7.42Y	123.6	0.01	1.41	2.83	2	20	5	97	0.00	0.0	4.400	0.104	6	1	1	3
PL.36194	PL.64360	C	#4 ACSR	7.42Y	123.6	0.00	1.41	1.97	2	14	3	98	0.00	0.0	4.444	0.044	0	0	0	2
PL.36195	PL.36194	C	#4 ACSR	7.42Y	123.6	0.00	1.41	1.94	1	14	3	98	0.00	0.0	4.470	0.026	14	3	1	1
PL.34446	PL.36194	C	#2 ACSR	7.42Y	123.6	0.00	1.41	0.03	0	0	0	100	0.00	0.0	4.494	0.050	0	0	1	1
PL.64357	PL.64359	C	#2 ACSR	7.42Y	123.6	0.00	1.40	0.00	0	0	0	100	0.00	0.0	4.414	0.118	0	0	0	0
CP.97	PL.52812	ABC	Cap (300)	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	3.617	0.118	0	0	0	0
PL.33699	PL.34937	B	6 A (CWC)	7.45Y	124.2	0.00	0.83	13.91	10	101	23	98	0.00	0.0	3.423	0.001	0	0	0	11
PD.5266	PL.33699	B	75QA	7.45Y	124.2	0.00	0.83	13.91	19	101	23	98	0.00	0.0	3.423	0.001	0	0	0	11
PL.36060	PD.5266	B	6 A (CWC)	7.45Y	124.1	0.04	0.87	13.91	10	101	23	98	0.03	0.0	3.487	0.065	5	1	1	11
PL.36061	PL.36060	B	6 A (CWC)	7.45Y	124.1	0.02	0.89	13.24	9	96	22	97	0.02	0.0	3.527	0.039	12	3	1	10
PL.34214	PL.36061	B	#2 ACSR	7.45Y	124.1	0.01	0.90	5.20	3	38	9	97	0.00	0.0	3.580	0.053	14	3	1	4
PL.57570	PL.34214	B	#2 ACSR	7.45Y	124.1	0.00	0.90	0.73	0	5	1	98	0.00	0.0	3.622	0.042	5	1	1	1
PL.57571	PL.57570	B	#2 ACSR	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	3.651	0.029	0	0	0	0
PL.34215	PL.34214	B	#2 ACSR	7.45Y	124.1	0.00	0.90	2.52	1	18	4	98	0.00	0.0	3.609	0.029	18	4	2	2

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34216	PL.34215	B	#2 ACSR	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	3.631	0.022	0	0	0	0
PL.35314	PL.36061	B	#4 ACSR	7.45Y	124.1	0.01	0.91	6.41	5	47	11	97	0.00	0.0	3.587	0.060	11	3	1	5
PL.33682	PL.35314	B	#2 ACSR	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	3.653	0.066	0	0	0	0
PL.35315	PL.35314	B	#4 ACSR	7.44Y	124.1	0.01	0.92	3.07	2	22	5	98	0.00	0.0	3.679	0.092	1	0	1	3
PL.35666	PL.35315	B	#4 ACSR	7.44Y	124.1	0.00	0.92	2.92	2	21	5	97	0.00	0.0	3.694	0.015	0	0	0	2
PL.35664	PL.35666	B	6 A (CWC)	7.44Y	124.1	0.00	0.92	1.57	1	11	3	96	0.00	0.0	3.736	0.042	11	3	1	1
PL.35667	PL.35666	B	#4 ACSR	7.44Y	124.1	0.01	0.93	1.35	1	10	2	98	0.00	0.0	3.919	0.225	10	2	1	1
PL.35033	PL.35314	B	#2 ACSR	7.45Y	124.1	0.00	0.91	1.76	1	13	3	97	0.00	0.0	3.632	0.045	13	3	1	1
PL.33698	PL.34937	B	6 A (CWC)	7.45Y	124.2	0.00	0.83	3.68	3	27	6	98	0.00	0.0	3.423	0.001	0	0	0	3
PD.5184	PL.33698	B	75QA	7.45Y	124.2	0.00	0.83	3.68	5	27	6	98	0.00	0.0	3.423	0.001	0	0	0	3
PL.36355	PD.5184	B	6 A (CWC)	7.45Y	124.2	0.00	0.83	3.68	3	27	6	98	0.00	0.0	3.476	0.053	27	6	3	3
PL.36356	PL.36355	B	6 A (CWC)	7.45Y	124.2	0.00	0.83	0.00	0	0	0	100	0.00	0.0	3.536	0.060	0	0	0	0
PL.35646	PL.36356	B	6 A (CWC)	7.45Y	124.2	0.00	0.83	0.00	0	0	0	100	0.00	0.0	3.592	0.056	0	0	0	0
PL.35170	PL.36680	C	6 A (CWC)	7.46Y	124.4	0.00	0.58	6.96	5	51	12	97	0.00	0.0	3.345	0.001	0	0	0	7
PD.5265	PL.35170	C	75QA	7.46Y	124.4	0.00	0.58	6.96	9	51	12	97	0.00	0.0	3.345	0.001	0	0	0	7
PL.35171	PD.5265	C	6 A (CWC)	7.46Y	124.4	0.00	0.59	6.96	5	51	12	97	0.00	0.0	3.359	0.014	24	5	2	7
PL.35172	PL.35171	C	6 A (CWC)	7.46Y	124.4	0.01	0.60	3.70	3	27	6	98	0.00	0.0	3.420	0.061	0	0	0	5
PL.35981	PL.35172	C	#4 ACSR	7.46Y	124.4	0.00	0.60	0.00	0	0	0	100	0.00	0.0	3.451	0.031	0	0	0	1
PL.35982	PL.35981	C	#4 ACSR	7.46Y	124.4	0.00	0.60	0.00	0	0	0	100	0.00	0.0	3.497	0.047	0	0	1	1
PL.34575	PL.35172	C	6 A (CWC)	7.46Y	124.4	0.00	0.60	3.70	3	27	6	98	0.00	0.0	3.448	0.028	19	4	3	4
PL.59913	PL.34575	C	#1/0 ACSR	7.46Y	124.4	0.00	0.60	1.12	0	8	2	97	0.00	0.0	3.496	0.048	8	2	1	1
PL.36682	PL.35983	A	#2 ACSR	7.48Y	124.7	0.00	0.34	3.24	2	24	5	98	0.00	0.0	3.274	0.002	0	0	0	1
PD.5183	PL.36682	A	60QA	7.48Y	124.7	0.00	0.34	3.24	5	24	5	98	0.00	0.0	3.274	0.002	0	0	0	1
PL.36683	PD.5183	A	#2 ACSR	7.48Y	124.7	0.00	0.34	3.24	2	24	5	98	0.00	0.0	3.292	0.018	24	5	1	1
PL.36681	PL.36683	A	#2 ACSR	7.48Y	124.7	0.00	0.34	0.00	0	0	0	100	0.00	0.0	3.303	0.012	0	0	0	0
PL.52481	PL.64363	C	6 A (CWC)	7.49Y	124.8	0.00	0.24	1.39	1	10	2	98	0.00	0.0	3.242	0.001	0	0	0	2
PD.8040	PL.52481	C	75QA	7.49Y	124.8	0.00	0.24	1.39	2	10	2	98	0.00	0.0	3.242	0.001	0	0	0	2
PL.52569	PD.8040	C	6 A (CWC)	7.49Y	124.8	0.00	0.24	1.39	1	10	2	98	0.00	0.0	3.284	0.042	10	2	2	2
PL.35643	PL.35353	C	6 A (CWC)	7.50Y	125.0	0.00	-0.01	11.40	8	83	19	97	0.00	0.0	3.087	0.000	0	0	0	10
PD.5714	PL.35643	C	30T	7.50Y	125.0	0.00	-0.01	11.40	0	83	19	97	0.00	0.0	3.087	0.000	0	0	0	10
PL.35644	PD.5714	C	6 A (CWC)	7.50Y	125.0	0.04	0.02	11.40	8	83	19	97	0.02	0.0	3.162	0.075	8	2	1	10

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35322	PL.35644	C	6 A (CWC)	7.50Y	125.0	0.01	0.04	10.34	7	76	17	98	0.01	0.0	3.194	0.032	0	0	0	9
PL.35354	PL.35322	C	6 A (CWC)	7.50Y	125.0	0.00	0.04	1.58	1	12	3	97	0.00	0.0	3.229	0.035	12	3	1	1
PL.35355	PL.35354	C	6 A (CWC)	7.50Y	125.0	0.00	0.04	0.00	0	0	0	100	0.00	0.0	3.249	0.020	0	0	0	0
PL.35323	PL.35322	C	6 A (CWC)	7.50Y	124.9	0.01	0.05	8.75	6	64	15	97	0.01	0.0	3.225	0.031	8	2	1	8
PL.36691	PL.35323	C	6 A (CWC)	7.50Y	124.9	0.03	0.08	7.67	5	56	13	97	0.01	0.0	3.317	0.092	0	0	0	7
PL.33677	PL.36691	C	6 A (CWC)	7.50Y	124.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	3.393	0.077	0	0	0	0
PL.34840	PL.36691	C	6 A (CWC)	7.49Y	124.9	0.00	0.09	2.14	2	16	4	97	0.00	0.0	3.402	0.085	16	4	2	2
PL.36692	PL.36691	C	6 A (CWC)	7.49Y	124.9	0.03	0.12	5.53	4	40	9	98	0.01	0.0	3.484	0.167	14	3	1	5
PL.33972	PL.36692	C	6 A (CWC)	7.49Y	124.9	0.01	0.12	3.27	2	24	6	97	0.00	0.0	3.577	0.094	24	6	2	2
PL.33529	PL.36692	C	6 A (CWC)	7.49Y	124.9	0.00	0.12	0.38	0	3	1	95	0.00	0.0	3.521	0.037	3	1	2	2
PL.34482	PL.35352	A	#2 ACSR	7.51Y	125.1	0.00	-0.12	0.00	0	0	0	100	0.00	0.0	3.050	0.027	0	0	0	0
PL.35674	PL.35668	A	6 A (CWC)	7.53Y	125.4	0.00	-0.43	8.09	6	59	14	97	0.00	0.0	2.843	0.001	0	0	0	6
PD.5180	PL.35674	A	75QA	7.53Y	125.4	0.00	-0.43	8.09	11	59	14	97	0.00	0.0	2.843	0.001	0	0	0	6
PL.35675	PD.5180	A	6 A (CWC)	7.52Y	125.4	0.02	-0.41	8.09	6	59	14	97	0.01	0.0	2.915	0.072	17	4	3	6
PL.34821	PL.35675	A	6 A (CWC)	7.52Y	125.4	0.01	-0.40	5.78	4	42	10	97	0.00	0.0	2.969	0.054	42	10	3	3
PL.56300	PL.35672	ABC	336 MCM AC	7.53Y	125.6	0.00	-0.57	2.58	0	57	13	97	0.00	0.0	2.827	0.065	10	2	1	5
PL.56301	PL.56300	ABC	336 MCM AC	7.53Y	125.6	0.00	-0.57	2.10	0	46	11	97	0.00	0.0	2.839	0.011	0	0	0	4
PL.34571	PL.56301	ABC	336 MCM AC	7.53Y	125.6	0.00	-0.57	2.10	0	46	11	97	0.00	0.0	2.839	0.000	0	0	0	4
PD.5785	PL.34571	ABC	50L	7.53Y	125.6	0.00	-0.57	2.10	4	46	11	97	0.00	0.0	2.839	0.000	0	0	0	4
PL.34574	PD.5785	ABC	336 MCM AC	7.53Y	125.6	0.00	-0.57	2.10	0	46	11	97	0.00	0.0	2.856	0.017	24	6	2	4
PL.56302	PL.34574	C	#2 ACSR	7.53Y	125.6	0.00	-0.57	1.96	1	14	3	98	0.00	0.0	2.860	0.004	0	0	0	1
PD.8304	PL.56302	C	40QA	7.53Y	125.6	0.00	-0.57	1.96	5	14	3	98	0.00	0.0	2.860	0.004	0	0	0	1
PL.56303	PD.8304	C	#2 ACSR	7.53Y	125.6	0.00	-0.57	1.96	1	14	3	98	0.00	0.0	2.885	0.025	14	3	1	1
PL.35670	PL.34574	ABC	336 MCM AC	7.53Y	125.6	0.00	-0.57	0.37	0	8	2	97	0.00	0.0	2.889	0.033	0	0	0	1
PL.35022	PL.35670	A	#2 ACSR	7.53Y	125.6	0.00	-0.57	1.12	1	8	2	97	0.00	0.0	2.918	0.029	8	2	1	1
PL.35671	PL.35670	ABC	336 MCM AC	7.53Y	125.6	0.00	-0.57	0.00	0	0	0	100	0.00	0.0	3.106	0.217	0	0	0	0
PD.5870-B	PL.35671	ABC	Open	7.53Y	125.6	0.00	-0.57	0.00	0	0	0	100	0.00	0.0	3.106	0.217	0	0	0	0
PL.35079	PL.59932	C	6 A (CWC)	7.16Y	119.3	0.00	5.75	4.84	3	34	8	97	0.00	0.0	2.386	0.001	0	0	0	4
PD.5713	PL.35079	C	75QA	7.16Y	119.3	0.00	5.75	4.84	6	34	8	97	0.00	0.0	2.386	0.001	0	0	0	4
PL.35940	PD.5713	C	6 A (CWC)	7.15Y	119.2	0.01	5.76	4.84	3	34	8	97	0.00	0.0	2.442	0.056	0	0	0	4
PL.34727	PL.35940	C	#2 ACSR	7.15Y	119.2	0.00	5.76	2.07	1	14	3	98	0.00	0.0	2.469	0.027	14	3	1	1

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35980	PL.35940	C	6 A (CWC)	7.15Y	119.2	0.00	5.76	2.77	2	19	4	98	0.00	0.0	2.466	0.024	19	4	3	3
PL.59933	PL.59935	C	#4 ACSR	7.17Y	119.4	0.00	5.55	1.20	1	8	2	97	0.00	0.0	2.294	0.001	0	0	0	1
PD.5823	PL.59933	C	75QA	7.17Y	119.4	0.00	5.55	1.20	2	8	2	97	0.00	0.0	2.294	0.001	0	0	0	1
PL.72979	PD.5823	C	#4 ACSR	7.17Y	119.4	0.00	5.55	1.20	1	8	2	97	0.00	0.0	2.325	0.031	0	0	0	1
PL.72980	PL.72979	C	#4 ACSR	7.17Y	119.4	0.00	5.55	1.20	1	8	2	97	0.00	0.0	2.325	0.000	8	2	1	1
PL.59931	PL.59929	A	#4 ACSR	7.17Y	119.6	0.01	5.44	2.57	2	18	4	98	0.00	0.0	2.313	0.074	6	1	1	2
PL.34747	PL.59931	A	#4 ACSR	7.17Y	119.6	0.00	5.45	1.71	1	12	3	97	0.00	0.0	2.385	0.072	12	3	1	1
PL.34457	PL.35414	C	#2 ACSR	7.19Y	119.8	0.00	5.22	0.30	0	2	0	100	0.00	0.0	2.135	0.000	0	0	0	1
PD.5264	PL.34457	C	60QA	7.19Y	119.8	0.00	5.22	0.30	1	2	0	100	0.00	0.0	2.135	0.000	0	0	0	1
PL.34458	PD.5264	C	#2 ACSR	7.19Y	119.8	0.00	5.22	0.30	0	2	0	100	0.00	0.0	2.161	0.025	2	0	1	1
PL.34411	PL.34410	C	#2 ACSR	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	2.088	0.001	0	0	0	0
PD.5822	PL.34411	C	40QA	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	2.088	0.001	0	0	0	0
PL.34412	PD.5822	C	#2 ACSR	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	2.133	0.045	0	0	0	0
PL.34433	PL.34410	ABC	#1/0 ACSR	7.19Y	119.9	0.01	5.13	16.26	7	342	80	97	0.03	0.0	2.124	0.037	0	0	0	45
PL.35413	PL.34433	ABC	#1/0 ACSR	7.19Y	119.9	0.00	5.13	16.26	7	342	80	97	0.00	0.0	2.124	0.000	0	0	0	45
PD.5786	PL.35413	ABC	50L	7.19Y	119.9	0.00	5.13	16.26	33	342	80	97	0.00	0.0	2.124	0.000	0	0	0	45
PL.33716	PD.5786	ABC	#1/0 ACSR	7.19Y	119.8	0.03	5.16	16.26	7	342	80	97	0.07	0.0	2.227	0.103	0	0	0	45
PL.35542	PL.33716	ABC	#1/0 ACSR	7.19Y	119.8	0.05	5.21	16.26	7	342	79	97	0.13	0.0	2.410	0.182	1	0	1	45
PL.35540	PL.35542	A	#2 ACSR	7.19Y	119.8	0.00	5.21	0.00	0	0	0	100	0.00	0.0	2.412	0.002	0	0	0	0
PD.5075	PL.35540	A	40QA	7.19Y	119.8	0.00	5.21	0.00	0	0	0	100	0.00	0.0	2.412	0.002	0	0	0	0
PL.35541	PD.5075	A	#2 ACSR	7.19Y	119.8	0.00	5.21	0.00	0	0	0	100	0.00	0.0	2.493	0.081	0	0	0	0
PL.35539	PL.35542	ABC	#1/0 ACSR	7.19Y	119.8	0.01	5.23	15.78	7	331	77	97	0.03	0.0	2.461	0.051	6	1	1	40
PL.36026	PL.35539	ABC	#1/0 ACSR	7.18Y	119.7	0.03	5.26	15.48	7	325	75	97	0.07	0.0	2.580	0.119	12	3	1	39
PL.34580	PL.36026	ABC	#1/0 ACSR	7.18Y	119.7	0.02	5.28	13.38	6	281	65	97	0.04	0.0	2.664	0.084	0	0	0	34
PL.36147	PL.34580	A	#2 ACSR	7.18Y	119.7	0.00	5.28	2.96	2	21	5	97	0.00	0.0	2.668	0.004	0	0	0	2
PD.5076	PL.36147	A	40QA	7.18Y	119.7	0.00	5.28	2.96	7	21	5	97	0.00	0.0	2.668	0.004	0	0	0	2
PL.59183	PD.5076	A	#2 ACSR	7.18Y	119.7	0.01	5.28	2.96	2	21	5	97	0.00	0.0	2.789	0.121	21	5	2	2
PL.59182	PL.59183	A	#2 ACSR	7.18Y	119.7	0.00	5.28	0.00	0	0	0	100	0.00	0.0	2.849	0.060	0	0	0	0
PL.35348	PL.34580	ABC	#1/0 ACSR	7.18Y	119.7	0.02	5.30	12.39	5	260	60	97	0.03	0.0	2.745	0.081	0	0	0	32
PL.36537	PL.35348	A	#2 ACSR	7.18Y	119.7	0.00	5.30	2.71	2	19	4	98	0.00	0.0	2.750	0.006	0	0	0	2
PD.5748	PL.36537	A	40QA	7.18Y	119.7	0.00	5.30	2.71	7	19	4	98	0.00	0.0	2.750	0.006	0	0	0	2

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36538	PD.5748	A	#2 ACSR	7.18Y	119.7	0.00	5.30	2.71	2	19	4	98	0.00	0.0	2.829	0.079	10	2	1	2
PL.36006	PL.36538	A	#2 ACSR	7.18Y	119.7	0.00	5.30	1.25	1	9	2	98	0.00	0.0	2.859	0.029	9	2	1	1
PL.34441	PL.35348	ABC	#1/0 ACSR	7.18Y	119.7	0.02	5.32	11.49	5	241	56	97	0.03	0.0	2.843	0.099	0	0	0	30
PL.36534	PL.34441	ABC	#1/0 ACSR	7.18Y	119.7	0.01	5.33	10.49	5	220	51	97	0.02	0.0	2.913	0.069	0	0	0	24
PL.58368	PL.36534	ABC	#1/0 ACSR	7.18Y	119.7	0.01	5.33	9.48	4	199	46	97	0.01	0.0	2.948	0.036	0	0	0	22
PL.58367	PL.58368	ABC	#1/0 ACSR	7.18Y	119.6	0.02	5.36	8.85	4	186	43	97	0.03	0.0	3.082	0.134	0	0	0	21
PL.58168	PL.58367	A	6 A (CWC)	7.18Y	119.6	0.00	5.36	11.17	8	78	18	97	0.00	0.0	3.085	0.003	0	0	0	7
PD.8598	PL.58168	A	30T	7.18Y	119.6	0.00	5.36	11.17	0	78	18	97	0.00	0.0	3.085	0.003	0	0	0	7
PL.58169	PD.8598	A	6 A (CWC)	7.17Y	119.6	0.07	5.42	11.17	8	78	18	97	0.04	0.0	3.225	0.140	11	2	1	7
PL.58373	PL.58169	A	6 A (CWC)	7.17Y	119.5	0.03	5.45	7.78	6	54	13	97	0.01	0.0	3.316	0.091	0	0	0	5
PL.35767	PL.58373	A	6 A (CWC)	7.17Y	119.5	0.01	5.46	6.31	5	44	10	98	0.00	0.0	3.345	0.029	0	0	0	4
PL.33756	PL.35767	A	#4 ACSR	7.17Y	119.5	0.00	5.46	0.00	0	0	0	100	0.00	0.0	3.380	0.036	0	0	0	0
PL.33338	PL.35767	A	6 A (CWC)	7.17Y	119.5	0.02	5.48	6.31	5	44	10	98	0.01	0.0	3.398	0.053	0	0	0	4
PL.33339	PL.33338	A	6 A (CWC)	7.17Y	119.5	0.00	5.48	0.00	0	0	0	100	0.00	0.0	3.487	0.089	0	0	0	0
PL.35608	PL.33338	A	#4 ACSR	7.17Y	119.5	0.01	5.49	6.31	5	44	10	98	0.00	0.0	3.431	0.034	19	4	2	4
PL.33337	PL.35608	A	#4 ACSR	7.17Y	119.5	0.01	5.49	3.53	3	25	6	97	0.00	0.0	3.486	0.055	12	3	1	2
PL.35274	PL.33337	A	#4 ACSR	7.17Y	119.5	0.00	5.49	1.86	1	13	3	97	0.00	0.0	3.547	0.061	13	3	1	1
PL.36031	PL.58373	A	#2 ACSR	7.17Y	119.5	0.00	5.46	1.47	1	10	2	98	0.00	0.0	3.345	0.030	10	2	1	1
PL.58372	PL.58169	A	6 A (CWC)	7.17Y	119.6	0.00	5.43	1.87	1	13	3	97	0.00	0.0	3.298	0.073	13	3	1	1
PL.58170	PL.58367	A	6 A (CWC)	7.18Y	119.6	0.00	5.36	15.38	11	108	25	97	0.00	0.0	3.085	0.002	0	0	0	14
PD.8599	PL.58170	A	30T	7.18Y	119.6	0.00	5.36	15.38	0	108	25	97	0.00	0.0	3.085	0.002	0	0	0	14
PL.58171	PD.8599	A	6 A (CWC)	7.17Y	119.5	0.15	5.51	15.38	11	108	25	97	0.13	0.1	3.306	0.222	0	0	0	14
PL.58371	PL.58171	A	6 A (CWC)	7.16Y	119.4	0.08	5.59	9.75	7	68	16	97	0.04	0.1	3.497	0.190	11	3	2	10
PL.36552	PL.58371	A	6 A (CWC)	7.16Y	119.4	0.02	5.61	6.74	5	47	11	97	0.01	0.0	3.560	0.063	0	0	0	7
PL.34245	PL.36552	A	6 A (CWC)	7.16Y	119.4	0.02	5.63	6.74	5	47	11	97	0.01	0.0	3.649	0.089	15	3	1	7
PL.33737	PL.34245	A	6 A (CWC)	7.16Y	119.4	0.02	5.65	3.37	2	24	5	98	0.00	0.0	3.771	0.122	4	1	2	5
PL.36488	PL.33737	A	6 A (CWC)	7.16Y	119.4	0.00	5.65	1.17	1	8	2	97	0.00	0.0	3.820	0.049	8	2	2	2
PL.36489	PL.36488	A	6 A (CWC)	7.16Y	119.4	0.00	5.65	0.00	0	0	0	100	0.00	0.0	3.849	0.029	0	0	0	0
PL.35578	PL.33737	A	#2 ACSR	7.16Y	119.4	0.00	5.65	1.66	1	12	3	97	0.00	0.0	3.865	0.094	12	3	1	1
PL.34108	PL.34245	A	#2 ACSR	7.16Y	119.4	0.00	5.63	1.21	1	8	2	97	0.00	0.0	3.699	0.050	8	2	1	1
PL.65311	PL.58371	A	#1/0 ACSR	7.16Y	119.4	0.00	5.59	1.44	1	10	2	98	0.00	0.0	3.550	0.053	0	0	0	1

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.65312	PL.65311	A	#1/0 ACSR	7.16Y	119.4	0.00	5.59	1.44	1	10	2	98	0.00	0.0	3.594	0.044	0	0	0	1
PL.65313	PL.65312	A	#1/0 ACSR	7.16Y	119.4	0.00	5.59	1.44	1	10	2	98	0.00	0.0	3.657	0.063	10	2	1	1
PL.58370	PL.58171	A	#2 ACSR	7.17Y	119.5	0.00	5.52	5.63	3	39	9	97	0.00	0.0	3.334	0.028	12	3	2	4
PL.36553	PL.58370	A	#2 ACSR	7.17Y	119.5	0.00	5.52	3.95	2	28	6	98	0.00	0.0	3.402	0.068	28	6	2	2
PL.36554	PL.36553	A	#2 ACSR	7.17Y	119.5	0.00	5.52	0.00	0	0	0	100	0.00	0.0	3.487	0.085	0	0	0	0
PL.34876	PL.36554	A	#2 ACSR	7.17Y	119.5	0.00	5.52	0.00	0	0	0	100	0.00	0.0	3.487	0.000	0	0	0	0
PL.58369	PL.58368	A	#2 ACSR	7.18Y	119.7	0.00	5.33	1.90	1	13	3	97	0.00	0.0	2.949	0.001	0	0	0	1
PD.5070	PL.58369	A	40QA	7.18Y	119.7	0.00	5.33	1.90	5	13	3	97	0.00	0.0	2.949	0.001	0	0	0	1
PL.36658	PD.5070	A	#2 ACSR	7.18Y	119.7	0.00	5.34	1.90	1	13	3	97	0.00	0.0	2.978	0.028	13	3	1	1
PL.33829	PL.36534	A	#2 ACSR	7.18Y	119.7	0.00	5.33	3.03	2	21	5	97	0.00	0.0	2.913	0.000	0	0	0	2
PD.5697	PL.33829	A	40QA	7.18Y	119.7	0.00	5.33	3.03	8	21	5	97	0.00	0.0	2.913	0.000	0	0	0	2
PL.33830	PD.5697	A	#2 ACSR	7.18Y	119.7	0.00	5.33	3.03	2	21	5	97	0.00	0.0	2.942	0.029	21	5	2	2
PL.36004	PL.34441	A	#2 ACSR	7.18Y	119.7	0.00	5.32	2.98	2	21	5	97	0.00	0.0	2.846	0.003	0	0	0	6
PD.5143	PL.36004	A	40T	7.18Y	119.7	0.00	5.32	2.98	0	21	5	97	0.00	0.0	2.846	0.003	0	0	0	6
PL.36005	PD.5143	A	#2 ACSR	7.18Y	119.7	0.00	5.32	2.98	2	21	5	97	0.00	0.0	2.876	0.030	1	0	3	6
PL.36003	PL.36005	A	#2 ACSR	7.18Y	119.7	0.00	5.32	2.79	2	20	5	97	0.00	0.0	2.984	0.108	20	5	3	3
PL.36007	PL.35348	A	#4 ACSR	7.18Y	119.7	0.00	5.30	0.00	0	0	0	100	0.00	0.0	2.750	0.005	0	0	0	0
PD.5074	PL.36007	A	40QA	7.18Y	119.7	0.00	5.30	0.00	0	0	0	100	0.00	0.0	2.750	0.005	0	0	0	0
PL.36536	PD.5074	A	#4 ACSR	7.18Y	119.7	0.00	5.30	0.00	0	0	0	100	0.00	0.0	2.807	0.057	0	0	0	0
PL.36540	PL.36026	A	#2 ACSR	7.18Y	119.7	0.00	5.26	4.52	3	32	7	98	0.00	0.0	2.581	0.001	0	0	0	4
PD.5142	PL.36540	A	40QA	7.18Y	119.7	0.00	5.26	4.52	11	32	7	98	0.00	0.0	2.581	0.001	0	0	0	4
PL.35544	PD.5142	A	#2 ACSR	7.18Y	119.7	0.01	5.27	4.52	3	32	7	98	0.00	0.0	2.672	0.091	18	4	2	4
PL.34577	PL.35544	A	#2 ACSR	7.18Y	119.7	0.00	5.27	0.00	0	0	0	100	0.00	0.0	2.703	0.031	0	0	0	1
PL.34578	PL.34577	A	#2 ACSR	7.18Y	119.7	0.00	5.27	0.00	0	0	0	100	0.00	0.0	2.794	0.090	0	0	0	1
PL.34579	PL.34578	A	#2 ACSR	7.18Y	119.7	0.00	5.27	0.00	0	0	0	100	0.00	0.0	2.886	0.093	0	0	1	1
PL.35110	PL.35544	A	#2 ACSR	7.18Y	119.7	0.00	5.27	1.95	1	14	3	98	0.00	0.0	2.744	0.072	14	3	1	1
PL.35973	PL.35542	A	#2 ACSR	7.19Y	119.8	0.00	5.21	1.32	1	9	2	98	0.00	0.0	2.411	0.001	0	0	0	4
PD.5072	PL.35973	A	40QA	7.19Y	119.8	0.00	5.21	1.32	3	9	2	98	0.00	0.0	2.411	0.001	0	0	0	4
PL.35974	PD.5072	A	#2 ACSR	7.19Y	119.8	0.00	5.22	1.32	1	9	2	98	0.00	0.0	2.482	0.071	0	0	0	4
PL.33381	PL.35974	A	#2 ACSR	7.19Y	119.8	0.00	5.22	1.32	1	9	2	98	0.00	0.0	2.540	0.058	0	0	1	4
PL.35105	PL.33381	A	#2 ACSR	7.19Y	119.8	0.00	5.22	1.32	1	9	2	98	0.00	0.0	2.645	0.105	0	0	0	3

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35543	PL.35105	A	#2 ACSR	7.19Y	119.8	0.00	5.22	1.32	1	9	2	98	0.00	0.0	2.700	0.055	9	2	2	3
PL.34576	PL.35543	A	#2 ACSR	7.19Y	119.8	0.00	5.22	0.00	0	0	0	100	0.00	0.0	2.807	0.107	0	0	0	0
PL.34110	PL.35543	A	#1/0 ACSR	7.19Y	119.8	0.00	5.22	0.00	0	0	0	100	0.00	0.0	2.737	0.038	0	0	1	1
PL.34585	PL.33716	A	#2 ACSR	7.19Y	119.8	0.00	5.16	0.00	0	0	0	100	0.00	0.0	2.228	0.001	0	0	0	0
PD.5141	PL.34585	A	40QA	7.19Y	119.8	0.00	5.16	0.00	0	0	0	100	0.00	0.0	2.228	0.001	0	0	0	0
PL.34586	PD.5141	A	#2 ACSR	7.19Y	119.8	0.00	5.16	0.00	0	0	0	100	0.00	0.0	2.281	0.054	0	0	0	0
PL.35989	PL.34405	A	6 A (CWC)	7.22Y	120.3	0.00	4.74	0.00	0	0	0	100	0.00	0.0	1.967	0.053	0	0	0	0
PL.34403	PL.34385	C	#4 ACSR	7.24Y	120.7	0.00	4.31	1.25	1	9	2	98	0.00	0.0	1.723	0.001	0	0	0	2
PD.5712	PL.34403	C	75QA	7.24Y	120.7	0.00	4.31	1.25	2	9	2	98	0.00	0.0	1.723	0.001	0	0	0	2
PL.34204	PD.5712	C	#4 ACSR	7.24Y	120.7	0.00	4.31	1.25	1	9	2	98	0.00	0.0	1.796	0.073	3	1	1	2
PL.33873	PL.34204	C	#4 ACSR	7.24Y	120.7	0.00	4.31	0.80	1	6	1	99	0.00	0.0	1.914	0.118	6	1	1	1
PL.33678	PL.34385	C	#4 ACSR	7.24Y	120.7	0.00	4.31	1.41	1	10	2	98	0.00	0.0	1.817	0.095	10	2	1	1
PL.34382	PL.34438	C	#1/0 ACSR	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	1.640	0.001	0	0	0	0
PD.5722	PL.34382	C	10QA	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	1.640	0.001	0	0	0	0
PL.34384	PD.5722	C	#1/0 ACSR	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	1.686	0.046	0	0	0	0
PL.34795	PL.34438	B	#2 ACSR	7.25Y	120.9	0.00	4.12	1.32	1	9	2	98	0.00	0.0	1.682	0.042	9	2	1	1
PL.34381	PL.34380	A	#2 ACSR	7.26Y	121.1	0.00	3.92	1.90	1	13	3	97	0.00	0.0	1.615	0.066	0	0	0	1
PL.34383	PL.34381	A	#2 ACSR	7.26Y	121.1	0.00	3.92	1.90	1	13	3	97	0.00	0.0	1.651	0.036	13	3	1	1
PL.34645	PL.35412	C	#4 ACSR	7.29Y	121.5	0.00	3.47	3.64	3	26	6	97	0.00	0.0	1.355	0.001	0	0	0	3
PD.5760	PL.34645	C	75QA	7.29Y	121.5	0.00	3.47	3.64	5	26	6	97	0.00	0.0	1.355	0.001	0	0	0	3
PL.59923	PD.5760	C	#4 ACSR	7.29Y	121.5	0.01	3.48	3.64	3	26	6	97	0.00	0.0	1.410	0.055	0	0	0	3
PL.59924	PL.59923	C	#4 ACSR	7.29Y	121.5	0.01	3.48	3.64	3	26	6	97	0.00	0.0	1.462	0.051	17	4	2	3
PL.34929	PL.59924	C	#4 ACSR	7.29Y	121.5	0.00	3.49	1.28	1	9	2	98	0.00	0.0	1.553	0.091	9	2	1	1
PL.59925	PL.59923	C	#1/0 ACSR	7.29Y	121.5	0.00	3.48	0.00	0	0	0	100	0.00	0.0	1.469	0.059	0	0	0	0
PL.34640	PL.34466	C	6 A (CWC)	7.32Y	122.1	0.00	2.92	4.48	3	32	7	98	0.00	0.0	1.125	0.001	0	0	0	4
PD.5819	PL.34640	C	75QA	7.32Y	122.1	0.00	2.92	4.48	6	32	7	98	0.00	0.0	1.125	0.001	0	0	0	4
PL.65309	PD.5819	C	6 A (CWC)	7.32Y	122.1	0.00	2.92	4.48	3	32	7	98	0.00	0.0	1.145	0.019	4	1	1	4
PL.65310	PL.65309	C	6 A (CWC)	7.32Y	122.1	0.00	2.92	3.97	3	28	7	97	0.00	0.0	1.192	0.047	28	7	3	3
PL.33915	PL.66245	A	#4 ACSR	7.39Y	123.1	0.00	1.88	7.54	6	54	13	97	0.00	0.0	0.719	0.001	0	0	0	7
PD.5817	PL.33915	A	75QA	7.39Y	123.1	0.00	1.88	7.54	10	54	13	97	0.00	0.0	0.719	0.001	0	0	0	7
PL.35263	PD.5817	A	#4 ACSR	7.39Y	123.1	0.02	1.91	7.54	6	54	13	97	0.01	0.0	0.797	0.078	9	2	1	7

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36112	PL.35263	A	#4 ACSR	7.38Y	123.1	0.01	1.92	6.32	5	46	11	97	0.00	0.0	0.841	0.044	0	0	0	6
PL.36113	PL.36112	A	#4 ACSR	7.38Y	123.1	0.01	1.93	3.68	3	26	6	97	0.00	0.0	0.923	0.082	21	5	2	3
PL.36114	PL.36113	A	#4 ACSR	7.38Y	123.1	0.00	1.93	0.77	1	6	1	99	0.00	0.0	0.984	0.061	0	0	0	1
PL.36115	PL.36114	A	#4 ACSR	7.38Y	123.1	0.00	1.93	0.77	1	6	1	99	0.00	0.0	1.010	0.025	0	0	0	1
PL.36116	PL.36115	A	#4 ACSR	7.38Y	123.1	0.00	1.93	0.77	1	6	1	99	0.00	0.0	1.081	0.071	6	1	1	1
PL.34956	PL.36112	A	#4 ACSR	7.38Y	123.1	0.00	1.93	2.65	2	19	4	98	0.00	0.0	0.918	0.077	19	4	3	3
PL.34230	PL.62308	A	#4 ACSR	7.48Y	124.7	0.00	0.29	0.76	1	6	1	99	0.00	0.0	0.109	0.000	0	0	0	1
PD.5721	PL.34230	A	75QA	7.48Y	124.7	0.00	0.29	0.76	1	6	1	99	0.00	0.0	0.109	0.000	0	0	0	1
PL.34231	PD.5721	A	#4 ACSR	7.48Y	124.7	0.00	0.29	0.76	1	6	1	99	0.00	0.0	0.144	0.035	6	1	1	1
PL.62310	East Bernstadt	ABC	336 MCM AC	7.50Y	125.0	0.02	0.02	356.06	69	7598	2540	95	0.62	0.0	0.006	0.006	0	0	0	776
PL.52877	PL.62310	ABC	336 MCM AC	7.50Y	125.0	0.01	0.03	356.06	69	7597	2539	95	0.39	0.0	0.009	0.004	0	0	0	776

----- Feeder No. 4 (Ft. Sequayah F4) Beginning with Device PD.8057 -----

PD.8057	PL.52877	ABC	480VWE	7.50Y	125.0	0.00	0.03	356.06	0	7597	2538	95	0.00	0.0	0.009	0.004	0	0	0	776
PL.58706	PD.8057	ABC	336 MCM AC	7.50Y	125.0	0.01	0.04	356.06	69	7597	2538	95	0.48	0.0	0.014	0.004	0	0	0	776
PL.58707	PL.58706	ABC	336 MCM AC	7.47Y	124.5	0.50	0.54	356.06	69	7596	2537	95	18.96	0.2	0.192	0.178	0	0	0	776
PL.58709	PL.58707	C	6 A (CWC)	7.47Y	124.5	0.00	0.54	0.04	0	0	0	100	0.00	0.0	0.193	0.001	0	0	0	1
PD.8727	PL.58709	C	20T	7.47Y	124.5	0.00	0.54	0.04	0	0	0	100	0.00	0.0	0.193	0.001	0	0	0	1
PL.65314	PD.8727	C	6 A (CWC)	7.47Y	124.5	0.00	0.54	0.04	0	0	0	100	0.00	0.0	0.218	0.025	0	0	0	1
PL.65315	PL.65314	C	6 A (CWC)	7.47Y	124.5	0.00	0.54	0.04	0	0	0	100	0.00	0.0	0.303	0.085	0	0	0	1
PL.58746	PL.65315	C	6 A (CWC)	7.47Y	124.5	0.00	0.54	0.04	0	0	0	100	0.00	0.0	0.512	0.209	0	0	1	1
PL.58747	PL.65315	C	6 A (CWC)	7.47Y	124.5	0.00	0.54	0.00	0	0	0	100	0.00	0.0	0.410	0.107	0	0	0	0
PL.36092	PL.58747	C	6 A (CWC)	7.47Y	124.5	0.00	0.54	0.00	0	0	0	100	0.00	0.0	0.461	0.051	0	0	0	0
PL.58708	PL.58707	ABC	336 MCM AC	7.46Y	124.3	0.12	0.66	356.04	69	7577	2492	95	4.53	0.1	0.234	0.042	0	0	0	775
PL.58704	PL.58708	ABC	#1/0 ACSR	7.46Y	124.3	0.00	0.66	1.65	1	33	16	90	0.00	0.0	0.239	0.005	0	0	0	1
PD.8726	PL.58704	ABC	25QA	7.46Y	124.3	0.00	0.66	1.65	7	33	16	90	0.00	0.0	0.239	0.005	0	0	0	1
PL.58745	PD.8726	ABC	#1/0 ACSR	7.46Y	124.3	0.00	0.66	1.65	1	33	16	90	0.00	0.0	0.385	0.146	33	16	1	1
PL.58748	PL.58708	ABC	336 MCM AC	7.44Y	124.0	0.31	0.97	354.41	68	7539	2466	95	11.84	0.2	0.346	0.112	0	0	0	774
PL.58744	PL.58748	C	6 A (CWC)	7.44Y	124.0	0.01	0.97	2.49	2	18	4	98	0.00	0.0	0.412	0.067	0	0	0	1
PL.35455	PL.58744	C	6 A (CWC)	7.44Y	124.0	0.00	0.98	2.49	2	18	4	98	0.00	0.0	0.479	0.067	18	4	1	1

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.58743	PL.58748	ABC	336 MCM AC	7.43Y	123.9	0.12	1.09	353.58	68	7509	2434	95	4.63	0.1	0.390	0.044	0	0	0	773
PL.58717	PL.58743	ABC	336 MCM AC	7.43Y	123.9	0.05	1.14	90.38	17	1957	483	97	0.52	0.0	0.465	0.075	0	0	0	241
PD.8731-A	PL.58717	ABC	Closed	7.43Y	123.9	0.00	1.14	90.38	0	1957	482	97	0.00	0.0	0.465	0.075	0	0	0	241
PD.8731-B	PD.8731-A	ABC	Closed	7.43Y	123.9	0.00	1.14	90.38	0	1957	482	97	0.00	0.0	0.465	0.075	0	0	0	241
PL.58718	PD.8731-B	ABC	336 MCM AC	7.43Y	123.9	0.00	1.14	90.38	17	1957	482	97	0.02	0.0	0.468	0.003	0	0	0	241
PL.58713	PL.58718	ABC	336 MCM AC	7.43Y	123.9	0.00	1.14	0.00	0	0	0	100	0.00	0.0	0.470	0.002	0	0	0	0
PD.8729-A	PL.58713	ABC	Open	7.43Y	123.9	0.00	1.14	0.00	0	0	0	100	0.00	0.0	0.470	0.002	0	0	0	0
PL.58715	PL.58718	ABC	336 MCM AC	7.43Y	123.9	0.00	1.14	90.38	17	1957	482	97	0.02	0.0	0.471	0.003	0	0	0	241
PD.8730-A	PL.58715	ABC	Closed	7.43Y	123.9	0.00	1.14	90.38	0	1957	482	97	0.00	0.0	0.471	0.003	0	0	0	241
PD.8730-B	PD.8730-A	ABC	Closed	7.43Y	123.9	0.00	1.14	90.38	0	1957	482	97	0.00	0.0	0.471	0.003	0	0	0	241
PL.58716	PD.8730-B	ABC	336 MCM AC	7.41Y	123.6	0.31	1.45	90.38	17	1957	482	97	3.29	0.2	0.949	0.479	0	0	0	241
PL.58737	PL.58716	ABC	336 MCM AC	7.41Y	123.5	0.05	1.50	90.38	17	1953	474	97	0.49	0.0	1.020	0.071	0	0	0	241
PL.58739	PL.58737	C	6 A (CWC)	7.41Y	123.5	0.00	1.50	3.77	3	27	6	98	0.00	0.0	1.022	0.002	0	0	0	2
PD.5779	PL.58739	C	75QA	7.41Y	123.5	0.00	1.50	3.77	5	27	6	98	0.00	0.0	1.022	0.002	0	0	0	2
PL.36773	PD.5779	C	6 A (CWC)	7.41Y	123.5	0.02	1.51	3.77	3	27	6	98	0.00	0.0	1.123	0.101	4	1	1	2
PL.36774	PL.36773	C	6 A (CWC)	7.41Y	123.5	0.01	1.52	3.26	2	23	5	98	0.00	0.0	1.209	0.086	23	5	1	1
PL.58738	PL.58737	ABC	336 MCM AC	7.41Y	123.4	0.07	1.56	89.13	17	1926	467	97	0.69	0.0	1.123	0.103	9	2	2	239
PL.34562	PL.58738	C	6 A (CWC)	7.41Y	123.4	0.00	1.56	1.23	1	9	2	98	0.00	0.0	1.124	0.001	0	0	0	1
PD.5195	PL.34562	C	75QA	7.41Y	123.4	0.00	1.56	1.23	2	9	2	98	0.00	0.0	1.124	0.001	0	0	0	1
PL.34906	PD.5195	C	6 A (CWC)	7.41Y	123.4	0.00	1.56	1.23	1	9	2	98	0.00	0.0	1.161	0.037	9	2	1	1
PL.36531	PL.58738	ABC	336 MCM AC	7.40Y	123.4	0.04	1.60	88.29	17	1907	461	97	0.39	0.0	1.182	0.059	4	1	2	236
PL.36530	PL.36531	ABC	336 MCM AC	7.40Y	123.4	0.03	1.63	88.11	17	1903	459	97	0.30	0.0	1.228	0.046	10	2	2	234
PL.36319	PL.36530	ABC	336 MCM AC	7.40Y	123.3	0.03	1.66	87.66	17	1892	456	97	0.35	0.0	1.283	0.055	3	1	1	232
PL.35765	PL.36319	ABC	336 MCM AC	7.40Y	123.3	0.01	1.67	87.51	17	1889	455	97	0.12	0.0	1.301	0.018	0	0	0	231
PD.5783	PL.35765	ABC	2404C	7.40Y	123.3	0.00	1.67	87.51	0	1889	454	97	0.00	0.0	1.301	0.018	0	0	0	231
PL.35766	PD.5783	ABC	336 MCM AC	7.40Y	123.3	0.00	1.67	87.51	17	1889	454	97	0.01	0.0	1.302	0.002	0	0	0	231
PL.36175	PL.35766	ABC	336 MCM AC	7.40Y	123.3	0.04	1.71	84.55	16	1825	440	97	0.37	0.0	1.364	0.062	9	2	1	226
PL.36176	PL.36175	ABC	336 MCM AC	7.40Y	123.3	0.04	1.75	84.14	16	1815	437	97	0.38	0.0	1.428	0.064	0	0	0	225
PL.37147	PL.36176	C	#2 ACSR	7.40Y	123.3	0.00	1.75	2.98	2	21	5	97	0.00	0.0	1.429	0.001	0	0	0	2
PD.5198	PL.37147	C	75QA	7.40Y	123.3	0.00	1.75	2.98	4	21	5	97	0.00	0.0	1.429	0.001	0	0	0	2
PL.37148	PD.5198	C	#2 ACSR	7.39Y	123.2	0.00	1.75	2.98	2	21	5	97	0.00	0.0	1.517	0.088	21	5	2	2

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.37149	PL.36176	B	6 A (CWC)	7.40Y	123.3	0.00	1.75	54.08	39	389	91	97	0.00	0.0	1.429	0.001	0	0	0	46
PD.5197	PL.37149	B	50T	7.40Y	123.3	0.00	1.75	54.08	0	389	91	97	0.00	0.0	1.429	0.001	0	0	0	46
PL.37071	PD.5197	B	6 A (CWC)	7.39Y	123.1	0.15	1.90	54.08	39	389	91	97	0.43	0.1	1.490	0.061	0	0	0	46
PL.33876	PL.37071	B	6 A (CWC)	7.35Y	122.4	0.68	2.57	53.19	38	383	90	97	1.92	0.5	1.775	0.286	11	3	2	45
PL.33445	PL.33876	B	#4 ACSR	7.34Y	122.3	0.09	2.66	44.64	34	319	74	97	0.22	0.1	1.822	0.047	12	3	1	36
PL.36317	PL.33445	B	#2 ACSR	7.33Y	122.2	0.14	2.80	32.00	18	229	53	97	0.23	0.1	1.964	0.142	7	2	1	28
PL.36318	PL.36317	B	#2 ACSR	7.33Y	122.1	0.08	2.88	30.97	18	221	51	97	0.13	0.1	2.051	0.087	15	4	1	27
PL.36316	PL.36318	B	#2 ACSR	7.32Y	122.0	0.07	2.95	28.83	16	206	48	97	0.10	0.0	2.142	0.091	46	11	8	26
PL.33742	PL.36316	B	#2 ACSR	7.32Y	122.0	0.00	2.96	1.10	1	8	2	97	0.00	0.0	2.193	0.050	8	2	1	1
PL.34278	PL.36316	B	#4 ACSR	7.32Y	122.0	0.05	3.00	16.60	13	118	27	97	0.04	0.0	2.212	0.069	17	4	2	12
PL.34279	PL.34278	B	#4 ACSR	7.32Y	122.0	0.01	3.01	5.23	4	37	9	97	0.00	0.0	2.248	0.036	19	4	2	4
PL.61974	PL.34279	B	#4 ACSR	7.32Y	122.0	0.00	3.01	2.60	2	19	4	98	0.00	0.0	2.270	0.022	19	4	2	2
PL.36315	PL.34278	B	#4 ACSR	7.32Y	122.0	0.01	3.01	8.96	7	64	15	97	0.01	0.0	2.244	0.032	0	0	0	6
PL.34529	PL.36315	B	#4 ACSR	7.32Y	122.0	0.00	3.02	4.07	3	29	7	97	0.00	0.0	2.265	0.022	15	4	2	3
PL.36312	PL.34529	B	#4 ACSR	7.32Y	122.0	0.00	3.02	1.89	1	13	3	97	0.00	0.0	2.291	0.026	13	3	1	1
PL.36320	PL.36315	B	#4 ACSR	7.32Y	122.0	0.01	3.02	4.89	4	35	8	97	0.00	0.0	2.280	0.036	14	3	1	3
PL.36529	PL.36320	B	#4 ACSR	7.32Y	122.0	0.00	3.02	2.97	2	21	5	97	0.00	0.0	2.313	0.033	11	2	1	2
PL.36651	PL.36529	B	#4 ACSR	7.32Y	122.0	0.00	3.03	1.47	1	10	2	98	0.00	0.0	2.357	0.045	0	0	0	1
PL.33962	PL.36651	B	#4 ACSR	7.32Y	122.0	0.00	3.03	1.47	1	10	2	98	0.00	0.0	2.459	0.102	10	2	1	1
PL.36652	PL.36651	B	#4 ACSR	7.32Y	122.0	0.00	3.03	0.00	0	0	0	100	0.00	0.0	2.382	0.025	0	0	0	0
PL.59945	PL.36316	B	#4 ACSR	7.32Y	122.0	0.01	2.96	4.61	4	33	8	97	0.00	0.0	2.175	0.032	12	3	1	5
PL.59946	PL.59945	B	#4 ACSR	7.32Y	122.0	0.00	2.96	2.96	2	21	5	97	0.00	0.0	2.209	0.034	0	0	0	4
PL.59948	PL.59946	B	#1/0 ACSR	7.32Y	122.0	0.00	2.97	0.94	0	7	2	96	0.00	0.0	2.276	0.067	7	2	1	1
PL.59947	PL.59946	B	#4 ACSR	7.32Y	122.0	0.00	2.97	2.02	2	14	3	98	0.00	0.0	2.278	0.069	10	2	1	3
PL.59944	PL.59947	B	#4 ACSR	7.32Y	122.0	0.00	2.97	0.61	0	4	1	97	0.00	0.0	2.324	0.046	0	0	0	2
PL.34853	PL.59944	B	#4 ACSR	7.32Y	122.0	0.00	2.97	0.61	0	4	1	97	0.00	0.0	2.360	0.036	0	0	0	2
PL.35285	PL.34853	B	#4 ACSR	7.32Y	122.0	0.00	2.97	0.06	0	0	0	100	0.00	0.0	2.416	0.056	0	0	1	1
PL.64788	PL.34853	B	#4 ACSR	7.32Y	122.0	0.00	2.97	0.56	0	4	1	97	0.00	0.0	2.391	0.030	0	0	0	1
PL.64787	PL.64788	B	#4 ACSR	7.32Y	122.0	0.00	2.97	0.56	0	4	1	97	0.00	0.0	2.391	0.000	4	1	1	1
PL.36474	PL.33445	B	#4 ACSR	7.34Y	122.3	0.04	2.71	10.92	8	78	18	97	0.02	0.0	1.936	0.114	31	7	4	7
PL.36475	PL.36474	B	#4 ACSR	7.34Y	122.3	0.01	2.71	3.55	3	25	6	97	0.00	0.0	2.022	0.087	25	6	2	2

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.33741	PL.36474	B	#4 ACSR	7.34Y	122.3	0.00	2.71	3.04	2	22	5	98	0.00	0.0	2.008	0.073	22	5	1	1
PL.35132	PL.33876	B	#4 ACSR	7.35Y	122.4	0.00	2.57	0.00	0	0	0	100	0.00	0.0	1.835	0.059	0	0	0	0
PL.35027	PL.33876	B	#4 ACSR	7.34Y	122.4	0.03	2.60	6.97	5	50	12	97	0.01	0.0	1.857	0.082	0	0	1	7
PL.35028	PL.35027	B	#4 ACSR	7.34Y	122.4	0.03	2.63	6.95	5	50	12	97	0.01	0.0	1.942	0.085	0	0	0	6
PL.35026	PL.35028	B	#4 ACSR	7.34Y	122.4	0.01	2.63	5.73	4	41	9	98	0.00	0.0	1.998	0.056	26	6	2	5
PL.34023	PL.35026	B	#4 ACSR	7.34Y	122.4	0.00	2.64	2.13	2	15	4	97	0.00	0.0	2.080	0.082	15	4	3	3
PL.34862	PL.35028	B	#4 ACSR	7.34Y	122.4	0.00	2.63	1.22	1	9	2	98	0.00	0.0	1.990	0.048	9	2	1	1
PL.34994	PL.37071	B	6 A (CWC)	7.39Y	123.1	0.00	1.90	0.89	1	6	1	99	0.00	0.0	1.541	0.051	6	1	1	1
PL.62544	PL.36176	ABC	336 MCM AC	7.39Y	123.2	0.06	1.81	65.11	13	1404	339	97	0.47	0.0	1.559	0.130	0	0	0	177
PL.62546	PL.62544	A	#2 ACSR	7.39Y	123.2	0.00	1.81	8.50	5	61	14	97	0.00	0.0	1.559	0.000	0	0	0	4
PD.5128	PL.62546	A	75QA	7.39Y	123.2	0.00	1.81	8.50	11	61	14	97	0.00	0.0	1.559	0.000	0	0	0	4
PL.36049	PD.5128	A	#2 ACSR	7.39Y	123.2	0.01	1.82	8.50	5	61	14	97	0.00	0.0	1.618	0.059	61	14	4	4
PL.62545	PL.62544	ABC	336 MCM AC	7.39Y	123.2	0.03	1.83	61.76	12	1331	322	97	0.18	0.0	1.616	0.058	0	0	0	171
PL.34615	PL.62545	C	#4 ACSR	7.39Y	123.2	0.00	1.83	15.85	12	114	26	97	0.00	0.0	1.618	0.002	0	0	0	8
PD.5098	PL.34615	C	75QA	7.39Y	123.2	0.00	1.83	15.85	21	114	26	97	0.00	0.0	1.618	0.002	0	0	0	8
PL.59963	PD.5098	C	#4 ACSR	7.39Y	123.1	0.03	1.87	15.85	12	114	26	97	0.03	0.0	1.671	0.052	14	3	1	8
PL.59967	PL.59963	C	#4 ACSR	7.39Y	123.1	0.03	1.90	13.94	11	100	23	97	0.02	0.0	1.724	0.053	0	0	0	7
PL.59962	PL.59967	C	1/0 AL URD	7.39Y	123.1	0.00	1.90	1.40	1	10	2	98	0.00	0.0	1.785	0.061	10	2	1	1
PL.59968	PL.59967	C	#4 ACSR	7.38Y	123.1	0.04	1.94	12.54	10	90	21	97	0.03	0.0	1.800	0.076	8	2	2	6
PL.59965	PL.59968	C	#4 ACSR	7.38Y	123.1	0.00	1.94	1.96	2	14	3	98	0.00	0.0	1.863	0.064	14	3	1	1
PL.59966	PL.59968	C	#2 ACSR	7.38Y	123.0	0.01	1.95	4.75	3	34	8	97	0.00	0.0	1.864	0.064	1	0	1	2
PL.35598	PL.59966	C	#2 ACSR	7.38Y	123.0	0.01	1.96	4.67	3	34	8	97	0.00	0.0	1.977	0.113	34	8	1	1
PL.59964	PL.59968	C	#2 ACSR	7.38Y	123.1	0.00	1.94	4.66	3	34	8	97	0.00	0.0	1.831	0.031	34	8	1	1
PL.34616	PL.62545	ABC	336 MCM AC	7.39Y	123.1	0.02	1.86	56.48	11	1217	295	97	0.16	0.0	1.677	0.060	0	0	0	163
PL.35596	PL.34616	C	#2 ACSR	7.39Y	123.1	0.00	1.86	0.00	0	0	0	100	0.00	0.0	1.681	0.004	0	0	0	0
PD.5160	PL.35596	C	50QA	7.39Y	123.1	0.00	1.86	0.00	0	0	0	100	0.00	0.0	1.681	0.004	0	0	0	0
PL.35597	PD.5160	C	#2 ACSR	7.39Y	123.1	0.00	1.86	0.00	0	0	0	100	0.00	0.0	1.738	0.057	0	0	0	0
PL.35595	PL.34616	ABC	336 MCM AC	7.39Y	123.1	0.02	1.88	56.48	11	1217	294	97	0.16	0.0	1.737	0.060	0	0	0	163
PL.33724	PL.35595	A	#2 ACSR	7.39Y	123.1	0.00	1.88	2.01	1	14	3	98	0.00	0.0	1.779	0.042	0	0	0	1
PL.34865	PL.33724	A	2 AL URD	7.39Y	123.1	0.00	1.89	2.01	1	14	3	98	0.00	0.0	1.831	0.053	14	3	1	1
PL.35747	PL.35595	A	#4 ACSR	7.39Y	123.1	0.00	1.88	2.13	2	15	4	97	0.00	0.0	1.738	0.001	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.5159	PL.35747	A	75QA	7.39Y	123.1	0.00	1.88	2.13	3	15	4	97	0.00	0.0	1.738	0.001	0	0	0	3
PL.36334	PD.5159	A	#4 ACSR	7.39Y	123.1	0.01	1.89	2.13	2	15	4	97	0.00	0.0	1.813	0.075	5	1	2	3
PL.36335	PL.36334	A	#4 ACSR	7.39Y	123.1	0.00	1.89	1.43	1	10	2	98	0.00	0.0	1.911	0.098	10	2	1	1
PL.35339	PL.35595	ABC	336 MCM AC	7.38Y	123.1	0.06	1.94	55.10	11	1187	287	97	0.40	0.0	1.894	0.156	0	0	0	159
PL.34443	PL.35339	C	6 A (CWC)	7.38Y	123.1	0.00	1.94	2.04	1	15	3	98	0.00	0.0	1.895	0.001	0	0	0	1
PD.5171	PL.34443	C	75QA	7.38Y	123.1	0.00	1.94	2.04	3	15	3	98	0.00	0.0	1.895	0.001	0	0	0	1
PL.35346	PD.5171	C	6 A (CWC)	7.38Y	123.1	0.00	1.95	2.04	1	15	3	98	0.00	0.0	1.955	0.060	15	3	1	1
PL.35340	PL.35339	ABC	336 MCM AC	7.38Y	123.0	0.04	1.99	54.42	10	1172	283	97	0.28	0.0	2.005	0.111	0	0	0	158
PL.34776	PL.35340	C	#2 ACSR	7.38Y	123.0	0.00	1.99	4.16	2	30	7	97	0.00	0.0	2.005	0.001	0	0	0	3
PD.5751	PL.34776	C	40QA	7.38Y	123.0	0.00	1.99	4.16	10	30	7	97	0.00	0.0	2.005	0.001	0	0	0	3
PL.36310	PD.5751	C	#2 ACSR	7.38Y	123.0	0.01	1.99	4.16	2	30	7	97	0.00	0.0	2.091	0.086	18	4	2	3
PL.36311	PL.36310	C	#2 ACSR	7.38Y	123.0	0.00	2.00	1.65	1	12	3	97	0.00	0.0	2.133	0.043	12	3	1	1
PL.34440	PL.35340	ABC	336 MCM AC	7.38Y	123.0	0.03	2.01	53.03	10	1142	275	97	0.17	0.0	2.077	0.072	0	0	0	155
PL.36305	PL.34440	ABC	336 MCM AC	7.38Y	122.9	0.04	2.05	49.25	9	1060	256	97	0.23	0.0	2.191	0.114	9	2	1	141
PL.33842	PL.36305	ABC	336 MCM AC	7.38Y	122.9	0.02	2.07	48.85	9	1051	253	97	0.09	0.0	2.238	0.047	5	1	1	140
PL.35588	PL.33842	A	#4 ACSR	7.38Y	122.9	0.00	2.07	0.00	0	0	0	100	0.00	0.0	2.243	0.006	0	0	0	0
PD.5019	PL.35588	A	75QA	7.38Y	122.9	0.00	2.07	0.00	0	0	0	100	0.00	0.0	2.243	0.006	0	0	0	0
PL.35589	PD.5019	A	#4 ACSR	7.38Y	122.9	0.00	2.07	0.00	0	0	0	100	0.00	0.0	2.287	0.044	0	0	0	0
PL.33411	PL.33842	ABC	336 MCM AC	7.37Y	122.9	0.03	2.10	48.61	9	1046	252	97	0.19	0.0	2.332	0.095	0	0	0	139
PL.37166	PL.33411	ABC	336 MCM AC	7.37Y	122.8	0.05	2.16	48.03	9	1033	248	97	0.31	0.0	2.493	0.160	8	2	1	138
PL.64721	PL.37166	ABC	336 MCM AC	7.37Y	122.8	0.09	2.25	47.67	9	1025	246	97	0.52	0.1	2.766	0.273	9	2	1	137
PL.64722	PL.64721	ABC	336 MCM AC	7.37Y	122.8	0.00	2.25	47.24	9	1015	243	97	0.00	0.0	2.766	0.000	0	0	0	136
PL.61987	PL.64722	ABC	336 MCM AC	7.36Y	122.7	0.04	2.29	47.24	9	1015	243	97	0.21	0.0	2.879	0.114	5	1	2	136
PL.36109	PL.61987	ABC	336 MCM AC	7.36Y	122.7	0.04	2.33	47.01	9	1010	241	97	0.24	0.0	3.008	0.129	7	2	1	134
PL.35562	PL.36109	C	#4 ACSR	7.36Y	122.7	0.00	2.33	2.23	2	16	4	97	0.00	0.0	3.009	0.001	0	0	0	2
PD.5115	PL.35562	C	75QA	7.36Y	122.7	0.00	2.33	2.23	3	16	4	97	0.00	0.0	3.009	0.001	0	0	0	2
PL.35563	PD.5115	C	#4 ACSR	7.36Y	122.7	0.01	2.34	2.23	2	16	4	97	0.00	0.0	3.087	0.077	0	0	0	2
PL.34544	PL.35563	C	#4 ACSR	7.36Y	122.7	0.00	2.34	2.23	2	16	4	97	0.00	0.0	3.130	0.043	14	3	1	2
PL.62052	PL.34544	C	#1/0 ACSR	7.36Y	122.7	0.00	2.34	0.33	0	2	1	89	0.00	0.0	3.164	0.034	2	1	1	1
PL.33672	PL.36109	C	#2 ACSR	7.36Y	122.7	0.01	2.34	1.98	1	14	3	98	0.00	0.0	3.146	0.138	4	1	1	2
PL.66249	PL.33672	C	#1/0 ACSR	7.36Y	122.7	0.00	2.34	1.43	1	10	2	98	0.00	0.0	3.208	0.062	10	2	1	1

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34612	PL.36109	ABC	336 MCM AC	7.36Y	122.6	0.04	2.37	45.27	9	972	232	97	0.23	0.0	3.142	0.134	14	3	3	129
PL.35157	PL.34612	ABC	336 MCM AC	7.35Y	122.6	0.05	2.42	44.61	9	958	228	97	0.28	0.0	3.307	0.165	0	0	0	126
PL.33930	PL.35157	ABC	336 MCM AC	7.35Y	122.6	0.02	2.45	41.85	8	898	214	97	0.11	0.0	3.381	0.073	9	2	1	118
PL.34545	PL.33930	ABC	336 MCM AC	7.35Y	122.5	0.03	2.47	41.44	8	889	211	97	0.13	0.0	3.469	0.088	11	2	4	117
PL.34546	PL.34545	ABC	336 MCM AC	7.35Y	122.5	0.05	2.52	40.95	8	879	209	97	0.24	0.0	3.642	0.173	10	2	1	113
PL.36257	PL.34546	ABC	336 MCM AC	7.35Y	122.4	0.03	2.55	40.51	8	869	206	97	0.14	0.0	3.745	0.103	11	2	1	112
PL.37161	PL.36257	ABC	336 MCM AC	7.35Y	122.4	0.02	2.57	40.00	8	858	203	97	0.09	0.0	3.814	0.069	18	4	2	111
PL.36675	PL.37161	ABC	336 MCM AC	7.35Y	122.4	0.01	2.58	39.19	8	840	199	97	0.05	0.0	3.851	0.037	0	0	0	109
PL.34912	PL.36675	ABC	336 MCM AC	7.34Y	122.4	0.01	2.60	38.32	7	822	194	97	0.07	0.0	3.906	0.055	10	2	1	108
PL.36674	PL.34912	ABC	336 MCM AC	7.34Y	122.3	0.06	2.66	37.85	7	812	192	97	0.28	0.0	4.141	0.235	0	0	0	107
PL.36411	PL.36674	ABC	336 MCM AC	7.33Y	122.2	0.13	2.78	37.85	7	811	191	97	0.57	0.1	4.618	0.477	14	3	1	107
PL.36412	PL.36411	ABC	336 MCM AC	7.33Y	122.2	0.03	2.82	36.98	7	792	185	97	0.15	0.0	4.751	0.134	2	0	2	105
PL.35936	PL.36412	C	6 A (CWC)	7.33Y	122.2	0.00	2.82	0.48	0	3	1	95	0.00	0.0	4.752	0.001	0	0	0	2
PD.5030	PL.35936	C	40QA	7.33Y	122.2	0.00	2.82	0.48	1	3	1	95	0.00	0.0	4.752	0.001	0	0	0	2
PL.35937	PD.5030	C	6 A (CWC)	7.33Y	122.2	0.00	2.82	0.48	0	3	1	95	0.00	0.0	4.830	0.078	2	0	1	2
PL.34920	PL.35937	C	6 A (CWC)	7.33Y	122.2	0.00	2.82	0.20	0	1	0	100	0.00	0.0	4.871	0.041	1	0	1	1
PL.35935	PL.36412	ABC	336 MCM AC	7.33Y	122.2	0.01	2.83	29.18	6	625	146	97	0.03	0.0	4.800	0.049	25	6	3	72
PL.34568	PL.35935	ABC	336 MCM AC	7.33Y	122.2	0.01	2.84	28.02	5	600	140	97	0.05	0.0	4.872	0.072	6	1	3	69
PL.36201	PL.34568	ABC	336 MCM AC	7.33Y	122.1	0.02	2.86	27.73	5	594	139	97	0.06	0.0	4.971	0.100	0	0	0	66
PL.37015	PL.36201	ABC	336 MCM AC	7.33Y	122.1	0.04	2.90	26.69	5	571	134	97	0.12	0.0	5.177	0.206	0	0	0	60
PL.37016	PL.37015	ABC	336 MCM AC	7.32Y	122.1	0.02	2.92	25.80	5	552	129	97	0.07	0.0	5.311	0.134	13	3	1	59
PL.36237	PL.37016	ABC	336 MCM AC	7.32Y	122.1	0.01	2.94	25.21	5	539	126	97	0.04	0.0	5.393	0.082	0	0	0	58
PL.57407	PL.36237	C	6 A (CWC)	7.32Y	122.0	0.02	2.96	52.35	37	373	87	97	0.04	0.0	5.400	0.007	0	0	0	40
PD.8285	PL.57407	C	30T	7.32Y	122.0	0.00	2.96	52.35	0	373	87	97	0.00	0.0	5.400	0.007	0	0	0	40
PL.57408	PD.8285	C	6 A (CWC)	7.31Y	121.8	0.23	3.19	51.01	36	364	85	97	0.63	0.2	5.500	0.100	0	0	0	39
PL.57405	PL.57408	C	#4 ACSR	7.31Y	121.8	0.00	3.19	3.19	2	23	5	98	0.00	0.0	5.570	0.070	23	5	2	2
PL.57406	PL.57408	C	#2 ACSR	7.31Y	121.8	0.00	3.19	3.26	2	23	5	98	0.00	0.0	5.535	0.035	23	5	2	2
PL.62055	PL.57408	C	6 A (CWC)	7.30Y	121.6	0.22	3.40	44.56	32	317	74	97	0.52	0.2	5.612	0.112	17	4	3	35
PL.62056	PL.62055	C	6 A (CWC)	7.29Y	121.5	0.05	3.46	37.78	27	268	62	97	0.11	0.0	5.644	0.032	13	3	1	30
PL.62057	PL.62056	C	6 A (CWC)	7.29Y	121.5	0.04	3.50	35.92	26	255	59	97	0.07	0.0	5.668	0.024	25	6	2	29
PL.62054	PL.62057	C	6 A (CWC)	7.29Y	121.5	0.04	3.53	32.44	23	230	54	97	0.06	0.0	5.692	0.024	0	0	0	27

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35141	PL.62054	C	6 A (CWC)	7.28Y	121.4	0.09	3.62	32.44	23	230	54	97	0.16	0.1	5.754	0.062	0	0	0	27
PL.62541	PL.35141	C	6 A (CWC)	7.27Y	121.2	0.15	3.77	29.62	21	210	49	97	0.23	0.1	5.863	0.109	0	0	0	24
PL.62542	PL.62541	C	6 A (CWC)	7.27Y	121.2	0.02	3.79	27.86	20	197	46	97	0.03	0.0	5.879	0.016	1	0	1	23
PL.34940	PL.62542	C	6 A (CWC)	7.27Y	121.2	0.01	3.79	3.53	3	25	6	97	0.00	0.0	5.927	0.048	8	2	1	4
PL.33659	PL.34940	C	6 A (CWC)	7.27Y	121.2	0.00	3.80	2.33	2	17	4	97	0.00	0.0	5.963	0.037	6	1	2	3
PL.33860	PL.33659	C	#1/0 ACSR	7.27Y	121.2	0.00	3.80	1.50	1	11	2	98	0.00	0.0	5.993	0.030	11	2	1	1
PL.33660	PL.33659	C	6 A (CWC)	7.27Y	121.2	0.00	3.80	0.00	0	0	0	100	0.00	0.0	5.985	0.021	0	0	0	0
PL.35579	PL.62542	C	6 A (CWC)	7.27Y	121.2	0.05	3.84	24.18	17	171	40	97	0.06	0.0	5.927	0.048	15	3	1	18
PL.36539	PL.35579	C	6 A (CWC)	7.27Y	121.1	0.05	3.88	22.06	16	156	36	97	0.05	0.0	5.979	0.053	39	9	5	17
PL.36532	PL.36539	C	#4 ACSR	7.27Y	121.1	0.00	3.88	0.91	1	6	1	99	0.00	0.0	6.021	0.041	6	1	2	2
PL.36533	PL.36532	C	#4 ACSR	7.27Y	121.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	6.038	0.018	0	0	0	0
PL.36535	PL.36539	C	6 A (CWC)	7.26Y	121.1	0.04	3.92	15.69	11	111	26	97	0.03	0.0	6.043	0.063	30	7	2	10
PL.34472	PL.36535	C	6 A (CWC)	7.26Y	121.1	0.02	3.94	9.63	7	68	16	97	0.01	0.0	6.105	0.062	60	14	5	7
PL.33439	PL.34472	C	6 A (CWC)	7.26Y	121.1	0.00	3.94	1.17	1	8	2	97	0.00	0.0	6.132	0.027	0	0	0	2
PL.33843	PL.33439	C	#2 ACSR	7.26Y	121.1	0.00	3.94	1.17	1	8	2	97	0.00	0.0	6.163	0.031	8	2	2	2
PL.33440	PL.33439	C	6 A (CWC)	7.26Y	121.1	0.00	3.94	0.00	0	0	0	100	0.00	0.0	6.183	0.051	0	0	0	0
PL.34347	PL.36535	C	#4 ACSR	7.26Y	121.1	0.01	3.93	1.75	1	12	3	97	0.00	0.0	6.145	0.103	0	0	0	1
PL.34292	PL.34347	C	#4 ACSR	7.26Y	121.1	0.00	3.93	1.75	1	12	3	97	0.00	0.0	6.198	0.053	12	3	1	1
PL.34437	PL.34292	C	#4 ACSR	7.26Y	121.1	0.00	3.93	0.00	0	0	0	100	0.00	0.0	6.228	0.030	0	0	0	0
PL.62543	PL.62541	C	#1/0 ACSR	7.27Y	121.2	0.00	3.77	1.77	1	13	3	97	0.00	0.0	5.914	0.051	13	3	1	1
PL.35139	PL.35141	C	6 A (CWC)	7.28Y	121.4	0.00	3.62	1.31	1	9	2	98	0.00	0.0	5.813	0.058	9	2	1	1
PL.35140	PL.35139	C	6 A (CWC)	7.28Y	121.4	0.00	3.62	0.00	0	0	0	100	0.00	0.0	5.841	0.028	0	0	0	0
PL.34342	PL.35141	C	6 A (CWC)	7.28Y	121.4	0.00	3.62	1.51	1	11	2	98	0.00	0.0	5.832	0.078	11	2	2	2
PL.64569	PL.62055	C	6 A (CWC)	7.30Y	121.6	0.00	3.41	3.22	2	23	5	98	0.00	0.0	5.656	0.045	23	5	1	1
PL.64570	PL.64569	C	6 A (CWC)	7.30Y	121.6	0.00	3.41	0.00	0	0	0	100	0.00	0.0	5.690	0.034	0	0	0	0
PL.62053	PL.62055	C	#4 ACSR	7.30Y	121.6	0.00	3.41	1.23	1	9	2	98	0.00	0.0	5.669	0.058	9	2	1	1
PL.57409	PD.8285	C	#4 ACSR	7.32Y	122.0	0.01	2.96	1.34	1	10	2	98	0.00	0.0	5.485	0.085	0	0	0	1
PL.57410	PL.57409	C	#4 ACSR	7.32Y	122.0	0.00	2.96	1.34	1	10	2	98	0.00	0.0	5.531	0.046	10	2	1	1
PL.34923	PL.36237	ABC	336 MCM AC	7.32Y	122.1	0.01	2.95	7.76	1	166	38	97	0.01	0.0	5.502	0.109	0	0	1	18
PL.34924	PL.34923	ABC	336 MCM AC	7.32Y	122.1	0.00	2.95	7.10	1	152	35	97	0.00	0.0	5.550	0.048	25	6	4	16
PL.36425	PL.34924	ABC	336 MCM AC	7.32Y	122.1	0.00	2.95	2.04	0	44	10	98	0.00	0.0	5.631	0.080	0	0	0	5

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.57377	PL.36425	ABC	336 MCM AC	7.32Y	122.0	0.00	2.95	1.56	0	33	8	97	0.00	0.0	5.769	0.139	0	0	0	4
PL.59253	PL.57377	ABC	336 MCM AC	7.32Y	122.0	0.00	2.95	0.00	0	0	0	100	0.00	0.0	5.809	0.040	0	0	0	0
PL.59254	PL.59253	ABC	336 MCM AC	7.32Y	122.0	0.00	2.95	0.00	0	0	0	100	0.00	0.0	5.813	0.003	0	0	0	0
PD.8756-A	PL.59254	ABC	Open	7.32Y	122.0	0.00	2.95	0.00	0	0	0	100	0.00	0.0	5.813	0.003	0	0	0	0
PL.57375	PL.57377	A	#2 ACSR	7.32Y	122.0	0.00	2.95	3.33	2	24	5	98	0.00	0.0	5.813	0.043	24	5	2	2
PL.57376	PL.57377	A	#4 ACSR	7.32Y	122.0	0.00	2.95	1.34	1	10	2	98	0.00	0.0	5.770	0.001	0	0	0	2
PD.5724	PL.57376	A	40QA	7.32Y	122.0	0.00	2.95	1.34	3	10	2	98	0.00	0.0	5.770	0.001	0	0	0	2
PL.36283	PD.5724	A	#4 ACSR	7.32Y	122.0	0.00	2.95	1.34	1	10	2	98	0.00	0.0	5.802	0.032	10	2	2	2
PL.36426	PL.36425	A	6 A (CWC)	7.32Y	122.1	0.00	2.95	1.45	1	10	2	98	0.00	0.0	5.631	0.001	0	0	0	1
PD.5063	PL.36426	A	40QA	7.32Y	122.1	0.00	2.95	1.45	4	10	2	98	0.00	0.0	5.631	0.001	0	0	0	1
PL.36427	PD.5063	A	6 A (CWC)	7.32Y	122.0	0.00	2.95	1.45	1	10	2	98	0.00	0.0	5.673	0.041	0	0	0	1
PL.36424	PL.36427	A	#1/0 ACSR	7.32Y	122.0	0.00	2.95	1.45	1	10	2	98	0.00	0.0	5.723	0.051	10	2	1	1
PL.35691	PL.34924	A	#4 ACSR	7.32Y	122.1	0.00	2.95	11.66	9	83	19	97	0.00	0.0	5.551	0.000	0	0	0	7
PD.5220	PL.35691	A	40QA	7.32Y	122.1	0.00	2.95	11.66	29	83	19	97	0.00	0.0	5.551	0.000	0	0	0	7
PL.35692	PD.5220	A	#4 ACSR	7.32Y	122.0	0.01	2.96	11.66	9	83	19	97	0.01	0.0	5.580	0.029	31	7	3	7
PL.36247	PL.35692	A	#4 ACSR	7.32Y	122.0	0.02	2.98	7.29	6	52	12	97	0.01	0.0	5.657	0.077	0	0	0	4
PL.33722	PL.36247	A	#4 ACSR	7.32Y	122.0	0.00	2.99	2.70	2	19	4	98	0.00	0.0	5.693	0.036	19	4	3	3
PL.36248	PL.36247	A	#4 ACSR	7.32Y	122.0	0.02	3.00	4.58	4	33	8	97	0.00	0.0	5.808	0.151	33	8	1	1
PL.34293	PL.34923	C	#2 ACSR	7.32Y	122.1	0.00	2.95	1.98	1	14	3	98	0.00	0.0	5.503	0.001	0	0	0	1
PD.5723	PL.34293	C	40QA	7.32Y	122.1	0.00	2.95	1.98	5	14	3	98	0.00	0.0	5.503	0.001	0	0	0	1
PL.34294	PD.5723	C	#2 ACSR	7.32Y	122.1	0.00	2.95	1.98	1	14	3	98	0.00	0.0	5.538	0.035	14	3	1	1
PL.34199	PL.34294	C	#2 ACSR	7.32Y	122.1	0.00	2.95	0.00	0	0	0	100	0.00	0.0	5.597	0.059	0	0	0	0
PL.35204	PL.37015	A	#1/0 ACSR	7.33Y	122.1	0.00	2.90	2.67	1	19	4	98	0.00	0.0	5.222	0.045	19	4	1	1
PL.36074	PL.36201	A	#4 ACSR	7.33Y	122.1	0.00	2.86	3.11	2	22	5	98	0.00	0.0	4.973	0.001	0	0	0	6
PD.5114	PL.36074	A	25T	7.33Y	122.1	0.00	2.86	3.11	0	22	5	98	0.00	0.0	4.973	0.001	0	0	0	6
PL.36075	PD.5114	A	#4 ACSR	7.33Y	122.1	0.01	2.87	3.11	2	22	5	98	0.00	0.0	5.028	0.055	15	3	1	6
PL.36202	PL.36075	A	#4 ACSR	7.33Y	122.1	0.00	2.87	1.03	1	7	2	96	0.00	0.0	5.051	0.024	0	0	1	5
PL.34569	PL.36202	A	#4 ACSR	7.33Y	122.1	0.00	2.87	1.02	1	7	2	96	0.00	0.0	5.083	0.032	1	0	1	4
PL.36073	PL.34569	A	#4 ACSR	7.33Y	122.1	0.00	2.87	0.86	1	6	1	99	0.00	0.0	5.145	0.062	6	1	3	3
PL.35938	PL.36412	B	6 A (CWC)	7.33Y	122.2	0.00	2.82	22.65	16	162	38	97	0.00	0.0	4.752	0.001	0	0	0	29
PD.5109	PL.35938	B	40QA	7.33Y	122.2	0.00	2.82	22.65	57	162	38	97	0.00	0.0	4.752	0.001	0	0	0	29

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34631	PD.5109	B	6 A (CWC)	7.33Y	122.1	0.05	2.87	22.65	16	162	38	97	0.06	0.0	4.806	0.054	14	3	1	29
PL.36587	PL.34631	B	6 A (CWC)	7.32Y	122.0	0.10	2.97	20.75	15	148	34	97	0.11	0.1	4.911	0.105	0	0	0	28
PL.35406	PL.36587	B	#4 ACSR	7.32Y	122.0	0.00	2.97	1.54	1	11	3	96	0.00	0.0	4.967	0.056	11	3	1	1
PL.36588	PL.36587	B	6 A (CWC)	7.32Y	121.9	0.08	3.06	19.21	14	137	32	97	0.09	0.1	5.009	0.098	0	0	0	27
PL.36238	PL.36588	B	6 A (CWC)	7.31Y	121.9	0.03	3.09	17.91	13	128	30	97	0.03	0.0	5.049	0.040	8	2	1	21
PL.34007	PL.36238	B	6 A (CWC)	7.31Y	121.9	0.02	3.10	16.78	12	120	28	97	0.02	0.0	5.073	0.025	11	2	1	20
PL.33822	PL.34007	B	6 A (CWC)	7.31Y	121.9	0.04	3.15	15.27	11	109	25	97	0.03	0.0	5.137	0.064	15	3	1	19
PL.34933	PL.33822	B	6 A (CWC)	7.31Y	121.8	0.04	3.18	13.22	9	94	22	97	0.02	0.0	5.200	0.063	8	2	1	18
PL.34932	PL.34933	B	6 A (CWC)	7.31Y	121.8	0.02	3.20	12.10	9	86	20	97	0.01	0.0	5.233	0.033	13	3	3	17
PL.34931	PL.34932	B	6 A (CWC)	7.30Y	121.7	0.05	3.25	10.24	7	73	17	97	0.03	0.0	5.364	0.131	19	5	1	14
PL.34365	PL.34931	B	6 A (CWC)	7.30Y	121.7	0.01	3.26	7.50	5	53	12	98	0.00	0.0	5.393	0.029	4	1	1	13
PL.34364	PL.34365	B	6 A (CWC)	7.30Y	121.7	0.02	3.28	6.97	5	50	11	98	0.01	0.0	5.454	0.061	7	2	2	12
PL.34363	PL.34364	B	6 A (CWC)	7.30Y	121.7	0.01	3.29	6.02	4	43	10	97	0.00	0.0	5.509	0.055	33	8	7	10
PL.35374	PL.34363	B	6 A (CWC)	7.30Y	121.7	0.00	3.29	1.42	1	10	2	98	0.00	0.0	5.564	0.055	10	2	3	3
PL.34873	PL.36588	B	#4 ACSR	7.32Y	121.9	0.00	3.06	1.30	1	9	2	98	0.00	0.0	5.112	0.103	3	1	1	6
PL.36268	PL.34873	B	#4 ACSR	7.32Y	121.9	0.00	3.06	0.90	1	6	1	99	0.00	0.0	5.142	0.030	0	0	1	5
PL.36269	PL.36268	B	#4 ACSR	7.32Y	121.9	0.00	3.06	0.89	1	6	1	99	0.00	0.0	5.200	0.058	6	1	2	4
PL.63686	PL.36269	B	#4 ACSR	7.32Y	121.9	0.00	3.06	0.09	0	1	0	100	0.00	0.0	5.243	0.043	0	0	1	2
PL.63687	PL.63686	B	#4 ACSR	7.32Y	121.9	0.00	3.06	0.04	0	0	0	100	0.00	0.0	5.243	0.000	0	0	1	1
PL.36589	PL.36411	C	#4 ACSR	7.33Y	122.2	0.00	2.78	0.64	0	5	1	98	0.00	0.0	4.619	0.001	0	0	0	1
PD.5148	PL.36589	C	40QA	7.33Y	122.2	0.00	2.78	0.64	2	5	1	98	0.00	0.0	4.619	0.001	0	0	0	1
PL.36244	PD.5148	C	#4 ACSR	7.33Y	122.2	0.00	2.79	0.64	0	5	1	98	0.00	0.0	4.666	0.047	0	0	0	1
PL.59910	PL.36244	C	#4 ACSR	7.33Y	122.2	0.00	2.79	0.64	0	5	1	98	0.00	0.0	4.738	0.072	5	1	1	1
PL.35230	PL.36675	A	#2 ACSR	7.35Y	122.4	0.00	2.58	2.59	1	19	4	98	0.00	0.0	3.908	0.058	19	4	1	1
PL.33436	PL.34545	C	#4 ACSR	7.35Y	122.5	0.00	2.47	0.00	0	0	0	100	0.00	0.0	3.470	0.001	0	0	0	0
PD.5742	PL.33436	C	75QA	7.35Y	122.5	0.00	2.47	0.00	0	0	0	100	0.00	0.0	3.470	0.001	0	0	0	0
PL.33437	PD.5742	C	#4 ACSR	7.35Y	122.5	0.00	2.47	0.00	0	0	0	100	0.00	0.0	3.617	0.147	0	0	0	0
PL.35156	PL.35157	C	6 A (CWC)	7.35Y	122.6	0.01	2.43	8.27	6	59	14	97	0.00	0.0	3.322	0.015	0	0	0	8
PL.34515	PL.35156	C	6 A (CWC)	7.35Y	122.6	0.00	2.43	8.27	6	59	14	97	0.00	0.0	3.326	0.004	0	0	0	8
PD.5789	PL.34515	C	35L	7.35Y	122.6	0.00	2.43	8.27	24	59	14	97	0.00	0.0	3.326	0.004	0	0	0	8
PL.34516	PD.5789	C	6 A (CWC)	7.35Y	122.6	0.02	2.45	8.27	6	59	14	97	0.01	0.0	3.378	0.052	13	3	1	8

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34514	PL.34516	C	6 A (CWC)	7.34Y	122.4	0.19	2.64	6.52	5	47	11	97	0.07	0.1	4.033	0.655	0	0	0	7
PL.59955	PL.34514	C	6 A (CWC)	7.34Y	122.3	0.04	2.68	5.51	4	39	9	97	0.01	0.0	4.213	0.181	9	2	1	6
PL.59956	PL.59955	C	6 A (CWC)	7.34Y	122.3	0.01	2.69	4.24	3	30	7	97	0.00	0.0	4.260	0.047	0	0	0	5
PL.34341	PL.59956	C	#2 ACSR	7.34Y	122.3	0.00	2.69	0.00	0	0	0	100	0.00	0.0	4.297	0.037	0	0	0	0
PL.36220	PL.59956	C	6 A (CWC)	7.34Y	122.3	0.01	2.70	4.24	3	30	7	97	0.00	0.0	4.337	0.077	8	2	2	5
PL.36221	PL.36220	C	6 A (CWC)	7.34Y	122.3	0.01	2.71	3.08	2	22	5	98	0.00	0.0	4.382	0.044	0	0	0	3
PL.36222	PL.36221	C	6 A (CWC)	7.34Y	122.3	0.00	2.71	3.08	2	22	5	98	0.00	0.0	4.418	0.037	12	3	1	3
PL.36223	PL.36222	C	6 A (CWC)	7.34Y	122.3	0.00	2.71	1.41	1	10	2	98	0.00	0.0	4.439	0.021	0	0	1	2
PL.35698	PL.36223	C	6 A (CWC)	7.34Y	122.3	0.00	2.71	1.40	1	10	2	98	0.00	0.0	4.464	0.025	10	2	1	1
PL.35070	PL.34514	C	6 A (CWC)	7.34Y	122.4	0.00	2.64	1.01	1	7	2	96	0.00	0.0	4.094	0.061	7	2	1	1
PL.36388	PL.33411	A	#4 ACSR	7.37Y	122.9	0.00	2.10	1.75	1	13	3	97	0.00	0.0	2.334	0.001	0	0	0	1
PD.5145	PL.36388	A	75QA	7.37Y	122.9	0.00	2.10	1.75	2	13	3	97	0.00	0.0	2.334	0.001	0	0	0	1
PL.36389	PD.5145	A	#4 ACSR	7.37Y	122.9	0.00	2.10	1.75	1	13	3	97	0.00	0.0	2.388	0.054	13	3	1	1
PL.36306	PL.34440	ABC	336 MCM AC	7.38Y	123.0	0.00	2.02	3.79	1	82	19	97	0.00	0.0	2.175	0.098	1	0	2	14
PL.36307	PL.36306	ABC	336 MCM AC	7.38Y	123.0	0.00	2.02	3.61	1	78	18	97	0.00	0.0	2.245	0.071	0	0	0	10
PL.34246	PL.36307	C	#4 ACSR	7.38Y	123.0	0.00	2.02	10.83	8	78	18	97	0.00	0.0	2.249	0.004	0	0	0	10
PD.5752	PL.34246	C	25T	7.38Y	123.0	0.00	2.02	10.83	0	78	18	97	0.00	0.0	2.249	0.004	0	0	0	10
PL.34732	PD.5752	C	#4 ACSR	7.37Y	122.9	0.06	2.08	10.83	8	78	18	97	0.04	0.0	2.382	0.133	0	0	0	10
PL.36677	PL.34732	C	#4 ACSR	7.37Y	122.8	0.15	2.23	10.83	8	78	18	97	0.09	0.1	2.700	0.317	0	0	0	10
PL.36678	PL.36677	C	#4 ACSR	7.36Y	122.7	0.04	2.27	9.53	7	68	16	97	0.02	0.0	2.794	0.095	13	3	1	9
PL.36620	PL.36678	C	#4 ACSR	7.36Y	122.7	0.04	2.31	7.70	6	55	13	97	0.02	0.0	2.925	0.131	11	2	2	8
PL.36621	PL.36620	C	#4 ACSR	7.36Y	122.7	0.01	2.32	6.21	5	45	10	98	0.00	0.0	2.951	0.026	1	0	1	6
PL.36622	PL.36621	C	#4 ACSR	7.36Y	122.6	0.04	2.35	6.13	5	44	10	98	0.01	0.0	3.089	0.138	4	1	2	5
PL.36772	PL.36622	C	#4 ACSR	7.36Y	122.6	0.01	2.37	5.59	4	40	9	98	0.00	0.0	3.149	0.060	12	3	1	3
PL.36279	PL.36772	C	#4 ACSR	7.36Y	122.6	0.01	2.37	3.95	3	28	7	97	0.00	0.0	3.204	0.056	11	3	1	2
PL.36280	PL.36279	C	#4 ACSR	7.36Y	122.6	0.00	2.38	2.39	2	17	4	97	0.00	0.0	3.247	0.042	0	0	0	1
PL.36281	PL.36280	C	1/0 AL URD	7.36Y	122.6	0.00	2.38	2.39	1	17	4	97	0.00	0.0	3.247	0.000	0	0	0	1
PD.5162	PL.36281	C	75QA	7.36Y	122.6	0.00	2.38	2.39	3	17	4	97	0.00	0.0	3.247	0.000	0	0	0	1
PL.36282	PD.5162	C	1/0 AL URD	7.36Y	122.6	0.00	2.38	2.39	1	17	4	97	0.00	0.0	3.268	0.021	17	4	1	1
PL.34448	PL.36677	C	#4 ACSR	7.37Y	122.8	0.00	2.24	1.31	1	9	2	98	0.00	0.0	2.856	0.156	9	2	1	1
PL.35203	PL.34732	C	#4 ACSR	7.37Y	122.9	0.00	2.08	0.00	0	0	0	100	0.00	0.0	2.494	0.111	0	0	0	0

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36308	PL.36306	A	#4 ACSR	7.38Y	123.0	0.00	2.02	0.33	0	2	1	89	0.00	0.0	2.177	0.003	0	0	0	2
PD.5161	PL.36308	A	75QA	7.38Y	123.0	0.00	2.02	0.33	0	2	1	89	0.00	0.0	2.177	0.003	0	0	0	2
PL.36309	PD.5161	A	#4 ACSR	7.38Y	123.0	0.00	2.02	0.33	0	2	1	89	0.00	0.0	2.367	0.190	2	1	2	2
PL.36353	PL.35339	A	6 A (CWC)	7.38Y	123.1	0.00	1.94	0.00	0	0	0	100	0.00	0.0	1.895	0.001	0	0	0	0
PD.5750	PL.36353	A	75QA	7.38Y	123.1	0.00	1.94	0.00	0	0	0	100	0.00	0.0	1.895	0.001	0	0	0	0
PL.36354	PD.5750	A	6 A (CWC)	7.38Y	123.1	0.00	1.94	0.00	0	0	0	100	0.00	0.0	1.939	0.044	0	0	0	0
PL.62678	PL.62544	C	#1/0 ACSR	7.39Y	123.2	0.00	1.81	1.55	1	11	3	96	0.00	0.0	1.574	0.015	0	0	0	2
PL.62677	PL.62678	C	1/0 AL URD	7.39Y	123.2	0.00	1.81	1.55	1	11	3	96	0.00	0.0	1.585	0.011	11	3	2	2
PL.62679	PL.62678	C	1/0 AL URD	7.39Y	123.2	0.00	1.81	0.00	0	0	0	100	0.00	0.0	1.609	0.035	0	0	0	0
PL.34036	PL.35766	C	6 A (CWC)	7.40Y	123.3	0.00	1.68	2.63	2	19	4	98	0.00	0.0	1.362	0.060	19	4	2	2
PL.36181	PL.35766	C	6 A (CWC)	7.40Y	123.3	0.00	1.67	2.38	2	17	4	97	0.00	0.0	1.304	0.002	0	0	0	2
PD.5196	PL.36181	C	75QA	7.40Y	123.3	0.00	1.67	2.38	3	17	4	97	0.00	0.0	1.304	0.002	0	0	0	2
PL.36182	PD.5196	C	6 A (CWC)	7.40Y	123.3	0.00	1.68	2.38	2	17	4	97	0.00	0.0	1.385	0.081	17	4	2	2
PL.34068	PL.35766	A	1/0 AL URD	7.40Y	123.3	0.01	1.68	3.90	2	28	7	97	0.00	0.0	1.406	0.104	28	7	1	1
PL.58762	PL.58743	ABC	336 MCM AC	7.41Y	123.5	0.39	1.48	263.50	51	5548	1940	94	10.86	0.2	0.575	0.186	0	0	0	532
PL.58763	PL.58762	A	6 A (CWC)	7.41Y	123.5	0.00	1.48	2.52	2	18	4	98	0.00	0.0	0.576	0.001	0	0	0	3
PD.8732	PL.58763	A	12T	7.41Y	123.5	0.00	1.48	2.52	0	18	4	98	0.00	0.0	0.576	0.001	0	0	0	3
PL.58764	PD.8732	A	6 A (CWC)	7.41Y	123.5	0.01	1.49	2.52	2	18	4	98	0.00	0.0	0.652	0.076	7	2	1	3
PL.59909	PL.58764	A	6 A (CWC)	7.41Y	123.5	0.00	1.49	1.51	1	11	3	96	0.00	0.0	0.701	0.048	11	3	2	2
PL.63875	PL.58762	A	#4 ACSR	7.41Y	123.5	0.00	1.48	3.32	3	24	6	97	0.00	0.0	0.577	0.001	0	0	0	4
PD.9494	PL.63875	A	75QA	7.41Y	123.5	0.00	1.48	3.32	4	24	6	97	0.00	0.0	0.577	0.001	0	0	0	4
PL.64267	PD.9494	A	#4 ACSR	7.41Y	123.5	0.00	1.48	3.32	3	24	6	97	0.00	0.0	0.607	0.030	11	2	1	4
PL.64266	PL.64267	A	#4 ACSR	7.41Y	123.5	0.01	1.49	1.83	1	13	3	97	0.00	0.0	0.675	0.068	0	0	0	3
PL.64048	PL.64266	A	#4 ACSR	7.41Y	123.5	0.00	1.49	1.22	1	9	2	98	0.00	0.0	0.686	0.011	9	2	1	1
PL.64049	PL.64266	A	#4 ACSR	7.41Y	123.5	0.00	1.49	0.61	0	4	1	97	0.00	0.0	0.729	0.054	4	1	2	2
PL.64046	PL.58762	ABC	336 MCM AC	7.41Y	123.5	0.01	1.49	261.56	50	5495	1905	94	0.14	0.0	0.578	0.002	0	0	0	525
PL.64047	PL.64046	ABC	336 MCM AC	7.39Y	123.1	0.39	1.88	261.56	50	5495	1904	94	10.77	0.2	0.765	0.187	5	1	1	525
PL.36702	PL.64047	ABC	336 MCM AC	7.37Y	122.9	0.21	2.09	261.35	50	5479	1878	95	5.85	0.1	0.867	0.102	0	0	0	524
PL.36705	PL.36702	ABC	336 MCM AC	7.35Y	122.5	0.42	2.51	252.55	49	5283	1820	95	11.28	0.2	1.076	0.210	0	0	0	488
PL.52723	PL.36705	ABC	336 MCM AC	7.30Y	121.6	0.84	3.35	251.52	48	5249	1789	95	22.60	0.4	1.500	0.424	0	0	0	487
PL.52724	PL.52723	ABC	336 MCM AC	7.28Y	121.3	0.37	3.72	251.52	48	5227	1736	95	9.98	0.2	1.688	0.187	8	2	1	487

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.33866	PL.52724	ABC	#3/0 ACSR	7.26Y	121.0	0.26	3.99	232.60	78	4815	1612	95	7.78	0.2	1.774	0.086	19	4	3	432
PL.52174	PL.33866	ABC	#3/0 ACSR	7.24Y	120.6	0.38	4.36	231.70	77	4788	1596	95	11.19	0.2	1.898	0.124	10	2	1	429
PL.52175	PL.52174	ABC	#3/0 ACSR	7.23Y	120.5	0.18	4.54	230.32	77	4747	1573	95	5.19	0.1	1.956	0.058	21	5	3	425
PL.52173	PL.52175	ABC	#3/0 ACSR	7.23Y	120.4	0.04	4.58	229.34	76	4722	1561	95	1.13	0.0	1.969	0.013	5	1	1	422
PL.33966	PL.52173	ABC	#3/0 ACSR	7.21Y	120.2	0.22	4.80	224.59	75	4620	1536	95	6.22	0.1	2.043	0.073	0	0	0	410
PL.34124	PL.33966	ABC	#3/0 ACSR	7.21Y	120.2	0.02	4.82	222.43	74	4568	1516	95	0.63	0.0	2.050	0.008	16	8	1	405
PL.34125	PL.34124	ABC	#3/0 ACSR	7.21Y	120.1	0.09	4.91	221.62	74	4551	1507	95	2.57	0.1	2.081	0.031	0	0	0	404
PL.33840	PL.34125	A	#4 ACSR	7.21Y	120.1	0.00	4.91	1.82	1	13	3	97	0.00	0.0	2.083	0.002	0	0	0	1
PD.5028	PL.33840	A	75QA	7.21Y	120.1	0.00	4.91	1.82	2	13	3	97	0.00	0.0	2.083	0.002	0	0	0	1
PL.33841	PD.5028	A	#4 ACSR	7.21Y	120.1	0.00	4.91	1.82	1	13	3	97	0.00	0.0	2.180	0.098	13	3	1	1
PL.36603	PL.34125	C	#4 ACSR	7.21Y	120.1	0.01	4.92	5.03	4	35	8	97	0.00	0.0	2.123	0.042	16	4	1	3
PL.36604	PL.36603	C	#4 ACSR	7.20Y	120.1	0.00	4.92	2.81	2	20	5	97	0.00	0.0	2.158	0.035	20	5	2	2
PL.33967	PL.34125	ABC	#3/0 ACSR	7.20Y	120.0	0.10	5.01	219.34	73	4500	1492	95	2.76	0.1	2.116	0.034	0	0	4	400
PL.35760	PL.33967	ABC	#3/0 ACSR	7.19Y	119.9	0.12	5.12	219.34	73	4498	1488	95	3.27	0.1	2.156	0.040	0	0	0	396
PL.35756	PL.35760	ABC	#3/0 ACSR	7.18Y	119.7	0.15	5.27	217.42	72	4454	1474	95	4.19	0.1	2.209	0.053	1	0	1	389
PL.33441	PL.35756	ABC	#3/0 ACSR	7.18Y	119.7	0.07	5.34	217.35	72	4448	1468	95	1.83	0.0	2.232	0.024	112	54	1	388
PL.35267	PL.33441	ABC	#3/0 ACSR	7.18Y	119.6	0.05	5.39	211.64	71	4335	1411	95	1.25	0.0	2.249	0.017	0	0	0	387
PL.35758	PL.35267	ABC	#3/0 ACSR	7.16Y	119.4	0.26	5.64	211.64	71	4333	1409	95	7.03	0.2	2.342	0.093	0	0	0	387
PL.35759	PL.35758	ABC	#3/0 ACSR	7.14Y	119.1	0.28	5.92	209.95	70	4291	1391	95	7.49	0.2	2.443	0.101	0	0	0	383
PL.52170	PL.35759	ABC	#3/0 ACSR	7.14Y	119.0	0.10	6.02	208.25	69	4248	1372	95	2.70	0.1	2.481	0.037	0	0	1	379
PL.52171	PL.52170	B	#4 ACSR	7.14Y	119.0	0.00	6.02	1.89	1	13	3	97	0.00	0.0	2.481	0.001	0	0	0	1
PD.8032	PL.52171	B	25T	7.14Y	119.0	0.00	6.02	1.89	0	13	3	97	0.00	0.0	2.481	0.001	0	0	0	1
PL.52602	PD.8032	B	#4 ACSR	7.14Y	119.0	0.00	6.02	1.89	1	13	3	97	0.00	0.0	2.501	0.020	13	3	1	1
PL.54094	PL.52170	ABC	#3/0 ACSR	7.13Y	118.8	0.19	6.21	207.62	69	4232	1365	95	5.04	0.1	2.550	0.070	28	6	2	377
PL.57686	PL.54094	ABC	#3/0 ACSR	7.12Y	118.6	0.21	6.42	202.71	68	4124	1334	95	5.37	0.1	2.628	0.078	5	1	5	367
PL.57638	PL.57686	ABC	#3/0 ACSR	7.10Y	118.4	0.17	6.59	200.41	67	4071	1315	95	4.41	0.1	2.694	0.065	0	0	0	359
PL.34617	PL.57638	ABC	#3/0 ACSR	7.09Y	118.2	0.19	6.77	198.36	66	4024	1298	95	4.79	0.1	2.766	0.072	0	0	0	355
REG45	PL.34617	ABC	250kva	7.52Y	125.3	-7.05	-0.27	198.36	60	4019	1292	95	percent Boost= 5.62 Tap= 9.0							355
PL.36217	REG45	A	6 A (CWC)	7.52Y	125.3	0.00	-0.27	2.74	2	20	5	97	0.00	0.0	2.767	0.001	0	0	0	2
PD.5758	PL.36217	A	75QA	7.52Y	125.3	0.00	-0.27	2.74	4	20	5	97	0.00	0.0	2.767	0.001	0	0	0	2
PL.36218	PD.5758	A	6 A (CWC)	7.52Y	125.3	0.00	-0.27	2.74	2	20	5	97	0.00	0.0	2.802	0.035	20	5	2	2

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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.36214	REG45	ABC	#3/0 ACSR	7.50Y	125.0	0.23	-0.04	186.06	62	3994	1286	95	5.52	0.1	2.861	0.095	0	0	0	352
PL.35100	PL.36214	C	6 A (CWC)	7.50Y	125.0	0.00	-0.04	9.33	7	68	16	97	0.00	0.0	2.862	0.001	0	0	0	6
PD.5698	PL.35100	C	75QA	7.50Y	125.0	0.00	-0.04	9.33	12	68	16	97	0.00	0.0	2.862	0.001	0	0	0	6
PL.35101	PD.5698	C	6 A (CWC)	7.50Y	125.0	0.01	-0.03	9.33	7	68	16	97	0.00	0.0	2.892	0.030	36	8	3	6
PL.35238	PL.35101	C	#2 ACSR	7.50Y	125.0	0.00	-0.03	1.46	1	11	2	98	0.00	0.0	2.919	0.027	11	2	1	1
PL.35097	PL.35101	C	6 A (CWC)	7.50Y	125.0	0.01	-0.02	2.90	2	21	5	97	0.00	0.0	2.957	0.065	0	0	0	2
PL.35532	PL.35097	C	6 A (CWC)	7.50Y	125.0	0.01	-0.01	2.90	2	21	5	97	0.00	0.0	3.056	0.099	10	2	1	2
PL.36445	PL.35532	C	6 A (CWC)	7.50Y	125.0	0.00	-0.01	1.48	1	11	2	98	0.00	0.0	3.134	0.078	11	2	1	1
PL.56298	PL.36214	ABC	#3/0 ACSR	7.49Y	124.9	0.13	0.09	182.96	61	3920	1262	95	3.18	0.1	2.918	0.057	10	2	1	346
PL.56299	PL.56298	ABC	#3/0 ACSR	7.49Y	124.9	0.01	0.10	182.52	61	3907	1255	95	0.25	0.0	2.922	0.004	0	0	0	345
PL.36676	PL.56299	ABC	#3/0 ACSR	7.49Y	124.8	0.10	0.20	182.52	61	3907	1255	95	2.36	0.1	2.964	0.042	0	0	0	345
PL.34552	PL.36676	ABC	#3/0 ACSR	7.48Y	124.7	0.09	0.29	180.44	60	3862	1231	95	2.12	0.1	3.003	0.039	0	0	0	344
PL.35261	PL.34552	B	#2 ACSR	7.48Y	124.7	0.00	0.29	1.59	1	12	3	97	0.00	0.0	3.004	0.001	0	0	0	2
PD.5150	PL.35261	B	40QA	7.48Y	124.7	0.00	0.29	1.59	4	12	3	97	0.00	0.0	3.004	0.001	0	0	0	2
PL.34554	PD.5150	B	#2 ACSR	7.48Y	124.7	0.00	0.30	1.59	1	12	3	97	0.00	0.0	3.053	0.048	12	3	2	2
PL.34553	PL.34552	ABC	#3/0 ACSR	7.48Y	124.6	0.08	0.37	179.91	60	3848	1225	95	1.80	0.0	3.036	0.033	0	0	0	342
PL.35164	PL.34553	ABC	#3/0 ACSR	7.48Y	124.6	0.00	0.37	179.91	60	3846	1222	95	0.02	0.0	3.037	0.000	0	0	0	342
PL.52167	PL.35164	ABC	#3/0 ACSR	7.47Y	124.6	0.05	0.43	179.91	60	3846	1222	95	1.27	0.0	3.060	0.023	0	0	0	342
PL.52166	PL.52167	ABC	#3/0 ACSR	7.47Y	124.5	0.11	0.54	179.45	60	3835	1218	95	2.64	0.1	3.109	0.049	11	3	2	341
PL.33367	PL.52166	ABC	#1/0 ACSR	7.47Y	124.4	0.03	0.57	89.13	39	1863	718	93	0.33	0.0	3.125	0.016	0	0	0	112
PL.36138	PL.33367	ABC	#1/0 ACSR	7.47Y	124.4	0.00	0.57	89.13	39	1863	718	93	0.02	0.0	3.126	0.001	0	0	0	112
PD.5781	PL.36138	ABC	140L	7.47Y	124.4	0.00	0.57	89.13	64	1863	718	93	0.00	0.0	3.126	0.001	0	0	0	112
PL.54950	PD.5781	ABC	#1/0 ACSR	7.46Y	124.4	0.06	0.63	89.13	39	1863	718	93	0.71	0.0	3.159	0.034	14	3	1	112
PL.54951	PL.54950	ABC	#1/0 ACSR	7.46Y	124.3	0.10	0.73	88.52	38	1849	714	93	1.28	0.1	3.220	0.061	0	0	0	111
PL.35219	PL.54951	A	#4 ACSR	7.46Y	124.3	0.00	0.73	0.00	0	0	0	100	0.00	0.0	3.325	0.104	0	0	0	0
PL.33597	PL.54951	A	6 A (CWC)	7.46Y	124.3	0.00	0.73	1.48	1	11	2	98	0.00	0.0	3.221	0.001	0	0	0	1
PD.5151	PL.33597	A	40QA	7.46Y	124.3	0.00	0.73	1.48	4	11	2	98	0.00	0.0	3.221	0.001	0	0	0	1
PL.33598	PD.5151	A	6 A (CWC)	7.46Y	124.3	0.00	0.73	1.48	1	11	2	98	0.00	0.0	3.257	0.036	11	2	1	1
PL.36090	PL.54951	ABC	#1/0 ACSR	7.45Y	124.2	0.05	0.78	88.03	38	1837	710	93	0.60	0.0	3.250	0.029	0	0	0	110
PL.52700	PL.36090	ABC	#1/0 ACSR	7.45Y	124.2	0.06	0.84	88.03	38	1836	709	93	0.73	0.0	3.285	0.035	0	0	0	110
PL.52701	PL.52700	A	#4 ACSR	7.45Y	124.2	0.01	0.84	2.48	2	18	4	98	0.00	0.0	3.391	0.106	18	4	1	1

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.52703	PL.52700	C	#4 ACSR	7.45Y	124.2	0.00	0.84	1.85	1	13	3	97	0.00	0.0	3.286	0.001	0	0	0	1
PD.5251	PL.52703	C	40QA	7.45Y	124.2	0.00	0.84	1.85	5	13	3	97	0.00	0.0	3.286	0.001	0	0	0	1
PL.36091	PD.5251	C	#4 ACSR	7.45Y	124.2	0.00	0.84	1.85	1	13	3	97	0.00	0.0	3.314	0.028	0	0	0	1
PL.35375	PL.36091	C	#4 ACSR	7.45Y	124.2	0.00	0.84	0.00	0	0	0	100	0.00	0.0	3.465	0.151	0	0	0	0
PL.54952	PL.36091	C	#4 ACSR	7.45Y	124.2	0.00	0.84	1.85	1	13	3	97	0.00	0.0	3.360	0.046	13	3	1	1
PL.52704	PL.52700	A	#4 ACSR	7.45Y	124.2	0.00	0.84	1.49	1	11	3	96	0.00	0.0	3.286	0.001	0	0	0	1
PD.5729	PL.52704	A	40QA	7.45Y	124.2	0.00	0.84	1.49	4	11	3	96	0.00	0.0	3.286	0.001	0	0	0	1
PL.36561	PD.5729	A	#4 ACSR	7.45Y	124.2	0.00	0.84	1.49	1	11	3	96	0.00	0.0	3.394	0.108	11	3	1	1
PL.52702	PL.52700	ABC	#1/0 ACSR	7.44Y	124.1	0.09	0.93	86.11	37	1793	699	93	1.14	0.1	3.343	0.058	4	1	1	107
PL.36464	PL.52702	ABC	#1/0 ACSR	7.44Y	124.0	0.08	1.01	85.93	37	1788	697	93	0.97	0.1	3.392	0.050	9	2	1	106
PL.36610	PL.36464	ABC	#1/0 ACSR	7.44Y	123.9	0.07	1.08	85.53	37	1778	694	93	0.80	0.0	3.434	0.041	9	2	1	105
PL.63876	PL.36610	ABC	#1/0 ACSR	7.44Y	123.9	0.00	1.08	85.13	37	1769	691	93	0.00	0.0	3.434	0.000	0	0	0	104
PL.63877	PL.63876	ABC	#1/0 ACSR	7.43Y	123.8	0.14	1.22	85.13	37	1769	691	93	1.73	0.1	3.524	0.090	11	3	2	104
PL.35213	PL.63877	ABC	#1/0 ACSR	7.42Y	123.6	0.13	1.35	83.58	36	1733	682	93	1.54	0.1	3.607	0.084	23	5	2	100
PL.33224	PL.35213	ABC	#1/0 ACSR	7.41Y	123.5	0.17	1.52	81.78	36	1692	671	93	1.92	0.1	3.715	0.108	0	0	0	95
PL.35377	PL.33224	C	#4 ACSR	7.41Y	123.5	0.00	1.52	1.10	1	8	2	97	0.00	0.0	3.716	0.001	0	0	0	1
PD.5771	PL.35377	C	40QA	7.41Y	123.5	0.00	1.52	1.10	3	8	2	97	0.00	0.0	3.716	0.001	0	0	0	1
PL.35378	PD.5771	C	#4 ACSR	7.41Y	123.5	0.00	1.52	1.10	1	8	2	97	0.00	0.0	3.774	0.058	8	2	1	1
PL.36710	PL.33224	ABC	#1/0 ACSR	7.40Y	123.3	0.17	1.69	80.72	35	1667	664	93	1.97	0.1	3.829	0.113	0	0	0	93
PL.36711	PL.36710	ABC	#1/0 ACSR	7.40Y	123.3	0.05	1.74	80.72	35	1665	662	93	0.52	0.0	3.859	0.030	0	0	0	93
PL.35284	PL.36711	ABC	#1/0 ACSR	7.39Y	123.2	0.06	1.80	80.26	35	1654	659	93	0.67	0.0	3.898	0.039	11	3	1	91
PL.62426	PL.35284	ABC	#1/0 ACSR	7.39Y	123.1	0.10	1.90	73.48	32	1505	624	92	0.97	0.1	3.966	0.068	17	4	2	74
PL.62425	PL.62426	ABC	#1/0 ACSR	7.38Y	123.0	0.11	2.01	72.07	31	1473	616	92	1.14	0.1	4.048	0.082	0	0	0	71
PL.57604	PL.62425	ABC	#1/0 ACSR	7.38Y	122.9	0.06	2.07	71.51	31	1460	612	92	0.57	0.0	4.090	0.042	0	0	0	70
PL.57605	PL.57604	ABC	#1/0 ACSR	7.37Y	122.9	0.04	2.11	71.51	31	1459	612	92	0.43	0.0	4.122	0.031	0	0	0	70
PL.57908	PL.57605	ABC	#1/0 ACSR	7.37Y	122.9	0.03	2.14	36.57	16	761	273	94	0.16	0.0	4.168	0.046	0	0	0	68
PL.57909	PL.57908	ABC	#1/0 ACSR	7.37Y	122.8	0.03	2.17	36.57	16	761	273	94	0.17	0.0	4.216	0.048	11	3	1	68
PL.35030	PL.57909	ABC	#1/0 ACSR	7.37Y	122.8	0.04	2.21	34.63	15	719	263	94	0.19	0.0	4.275	0.059	0	0	0	63
PL.58398	PL.35030	C	#4 ACSR	7.37Y	122.8	0.00	2.21	25.88	20	186	43	97	0.00	0.0	4.278	0.003	0	0	0	30
PD.8577	PL.58398	C	25T	7.37Y	122.8	0.00	2.21	25.88	0	186	43	97	0.00	0.0	4.278	0.003	0	0	0	30
PL.58399	PD.8577	C	#4 ACSR	7.36Y	122.6	0.17	2.38	25.88	20	186	43	97	0.24	0.1	4.425	0.148	0	0	0	30

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.58397	PL.58399	C	#4 ACSR	7.36Y	122.6	0.02	2.40	14.61	11	105	24	97	0.01	0.0	4.454	0.028	7	2	1	18
PL.35289	PL.58397	C	#4 ACSR	7.35Y	122.6	0.03	2.43	13.57	10	97	23	97	0.02	0.0	4.508	0.054	3	1	1	17
PL.33896	PL.35289	C	#4 ACSR	7.35Y	122.5	0.06	2.50	13.19	10	95	22	97	0.05	0.0	4.619	0.111	0	0	0	16
PL.34444	PL.33896	C	#4 ACSR	7.35Y	122.5	0.01	2.51	3.47	3	25	6	97	0.00	0.0	4.701	0.082	0	0	0	4
PL.36377	PL.34444	C	#4 ACSR	7.35Y	122.5	0.00	2.51	1.51	1	11	2	98	0.00	0.0	4.754	0.053	0	0	0	2
PL.36378	PL.36377	C	#4 ACSR	7.35Y	122.5	0.01	2.52	1.51	1	11	2	98	0.00	0.0	4.891	0.137	7	2	1	2
PL.62682	PL.36378	C	#1/0 ACSR	7.35Y	122.5	0.00	2.52	0.53	0	4	1	97	0.00	0.0	4.921	0.029	0	0	0	1
PL.62683	PL.62682	C	1/0 AL URD	7.35Y	122.5	0.00	2.52	0.53	0	4	1	97	0.00	0.0	4.965	0.045	4	1	1	1
PL.35663	PL.34444	C	#4 ACSR	7.35Y	122.5	0.00	2.51	1.96	2	14	3	98	0.00	0.0	4.739	0.037	14	3	2	2
PL.34735	PL.33896	C	#4 ACSR	7.35Y	122.5	0.02	2.52	9.73	7	70	16	97	0.01	0.0	4.670	0.051	1	0	1	12
PL.36375	PL.34735	C	#4 ACSR	7.35Y	122.5	0.02	2.54	9.55	7	68	16	97	0.01	0.0	4.732	0.062	7	2	1	11
PL.36376	PL.36375	C	#4 ACSR	7.35Y	122.4	0.02	2.56	8.52	7	61	14	97	0.01	0.0	4.781	0.049	17	4	2	10
PL.33673	PL.36376	C	#4 ACSR	7.35Y	122.4	0.00	2.56	0.19	0	1	0	100	0.00	0.0	4.813	0.032	1	0	1	1
PL.59124	PL.36376	C	#4 ACSR	7.35Y	122.4	0.01	2.57	5.92	5	42	10	97	0.00	0.0	4.834	0.053	15	3	5	7
PL.59123	PL.59124	C	#4 ACSR	7.35Y	122.4	0.00	2.58	3.82	3	27	6	98	0.00	0.0	4.892	0.058	27	6	2	2
PL.35886	PL.59123	C	#4 ACSR	7.35Y	122.4	0.00	2.58	0.00	0	0	0	100	0.00	0.0	4.935	0.043	0	0	0	0
PL.58396	PL.58399	C	#4 ACSR	7.35Y	122.6	0.04	2.42	11.27	9	81	19	97	0.02	0.0	4.503	0.078	4	1	2	12
PL.34584	PL.58396	C	#4 ACSR	7.35Y	122.6	0.01	2.43	5.50	4	39	9	97	0.00	0.0	4.531	0.028	5	1	1	6
PL.35304	PL.34584	C	#4 ACSR	7.35Y	122.6	0.00	2.43	2.71	2	19	4	98	0.00	0.0	4.580	0.049	15	3	2	3
PL.33342	PL.35304	C	#4 ACSR	7.35Y	122.6	0.00	2.43	0.67	1	5	1	98	0.00	0.0	4.608	0.028	5	1	1	1
PL.35205	PL.34584	C	#4 ACSR	7.35Y	122.6	0.00	2.43	2.04	2	15	3	98	0.00	0.0	4.597	0.065	15	3	2	2
PL.34992	PL.58396	C	#4 ACSR	7.35Y	122.6	0.01	2.43	5.27	4	38	9	97	0.00	0.0	4.588	0.084	29	7	2	4
PL.34993	PL.34992	C	#4 ACSR	7.35Y	122.6	0.00	2.43	1.16	1	8	2	97	0.00	0.0	4.627	0.039	8	2	2	2
PL.33900	PL.35030	ABC	#4 ACSR	7.36Y	122.7	0.11	2.32	25.27	19	515	216	92	0.47	0.1	4.389	0.114	0	0	0	32
PL.34273	PL.33900	ABC	#4 ACSR	7.36Y	122.6	0.04	2.36	23.69	18	480	208	92	0.15	0.0	4.430	0.041	0	0	0	24
PL.58429	PL.34273	A	#4 ACSR	7.36Y	122.6	0.00	2.36	13.84	11	99	23	97	0.00	0.0	4.432	0.003	0	0	0	23
PD.8588	PL.58429	A	30T	7.36Y	122.6	0.00	2.36	13.84	0	99	23	97	0.00	0.0	4.432	0.003	0	0	0	23
PL.58430	PD.8588	A	#4 ACSR	7.36Y	122.6	0.05	2.41	13.84	11	99	23	97	0.04	0.0	4.520	0.088	2	0	2	23
PL.58428	PL.58430	A	#4 ACSR	7.35Y	122.5	0.04	2.45	13.62	10	98	23	97	0.03	0.0	4.591	0.071	0	0	1	21
PL.36058	PL.58428	A	#4 ACSR	7.35Y	122.5	0.04	2.49	13.62	10	98	23	97	0.03	0.0	4.657	0.066	0	0	1	20
PL.36057	PL.36058	A	#4 ACSR	7.35Y	122.5	0.01	2.51	13.61	10	97	23	97	0.01	0.0	4.682	0.025	0	0	0	19

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35600	PL.36057	A	#4 ACSR	7.35Y	122.5	0.02	2.53	4.10	3	29	7	97	0.00	0.0	4.872	0.190	21	5	1	2
PL.35601	PL.35600	A	#4 ACSR	7.35Y	122.5	0.00	2.53	1.22	1	9	2	98	0.00	0.0	4.909	0.038	9	2	1	1
PL.63873	PL.36057	A	#4 ACSR	7.35Y	122.5	0.03	2.54	9.51	7	68	16	97	0.02	0.0	4.765	0.083	2	0	1	17
PL.63874	PL.63873	A	#4 ACSR	7.35Y	122.5	0.00	2.54	9.30	7	67	15	98	0.00	0.0	4.765	0.000	0	0	0	16
PL.63872	PL.63874	A	#4 ACSR	7.35Y	122.5	0.00	2.54	9.30	7	67	15	98	0.00	0.0	4.765	0.000	0	0	0	16
PD.5203	PL.63872	A	40QA	7.35Y	122.5	0.00	2.54	9.30	23	67	15	98	0.00	0.0	4.765	0.000	0	0	0	16
PL.36059	PD.5203	A	#4 ACSR	7.35Y	122.4	0.02	2.56	9.30	7	67	15	98	0.01	0.0	4.807	0.042	0	0	0	16
PL.36056	PL.36059	A	#4 ACSR	7.35Y	122.4	0.02	2.58	9.03	7	65	15	97	0.01	0.0	4.858	0.052	0	0	0	15
PL.33558	PL.36056	A	#4 ACSR	7.34Y	122.4	0.01	2.59	1.57	1	11	3	96	0.00	0.0	5.055	0.197	11	3	1	1
PL.34511	PL.36056	A	#4 ACSR	7.34Y	122.4	0.02	2.60	7.46	6	53	12	98	0.01	0.0	4.920	0.061	7	2	2	14
PL.34512	PL.34511	A	#4 ACSR	7.34Y	122.4	0.01	2.61	6.43	5	46	11	97	0.00	0.0	4.969	0.050	4	1	2	12
PL.34513	PL.34512	A	#4 ACSR	7.34Y	122.4	0.01	2.63	5.84	4	42	10	97	0.00	0.0	5.032	0.063	20	5	4	10
PL.35603	PL.34513	A	#4 ACSR	7.34Y	122.4	0.01	2.63	3.05	2	22	5	98	0.00	0.0	5.117	0.085	15	3	4	6
PL.36200	PL.35603	A	#4 ACSR	7.34Y	122.4	0.00	2.63	0.99	1	7	2	96	0.00	0.0	5.150	0.032	5	1	1	2
PL.36203	PL.36200	A	#4 ACSR	7.34Y	122.4	0.00	2.63	0.34	0	2	1	89	0.00	0.0	5.189	0.040	2	1	1	1
PL.33710	PL.36059	A	#4 ACSR	7.35Y	122.4	0.00	2.56	0.27	0	2	0	100	0.00	0.0	4.852	0.045	2	0	1	1
PL.34803	PL.34273	ABC	#1/0 ACSR	7.36Y	122.6	0.02	2.38	19.17	8	381	184	90	0.06	0.0	4.488	0.059	0	0	0	1
PL.34983	PL.34803	ABC	#1/0 ACSR	7.36Y	122.6	0.00	2.38	0.00	0	0	0	100	0.00	0.0	4.491	0.003	0	0	0	0
PL.34847	PL.34803	ABC	#1/0 ACSR	7.36Y	122.6	0.00	2.38	19.17	8	381	184	90	0.01	0.0	4.496	0.008	0	0	0	1
PL.34467	PL.34847	ABC	2 AL URD	7.36Y	122.6	0.00	2.38	19.17	11	381	184	90	0.00	0.0	4.503	0.008	381	184	1	1
PL.35587	PL.33900	B	#4 ACSR	7.36Y	122.7	0.00	2.32	0.15	0	1	0	100	0.00	0.0	4.390	0.002	0	0	0	1
PD.5775	PL.35587	B	40QA	7.36Y	122.7	0.00	2.32	0.15	0	1	0	100	0.00	0.0	4.390	0.002	0	0	0	1
PL.35590	PD.5775	B	#4 ACSR	7.36Y	122.7	0.00	2.32	0.15	0	1	0	100	0.00	0.0	4.405	0.014	1	0	1	1
PL.35280	PL.33900	B	#4 ACSR	7.36Y	122.7	0.00	2.32	4.65	4	33	8	97	0.00	0.0	4.391	0.002	0	0	0	7
PD.5118	PL.35280	B	40QA	7.36Y	122.7	0.00	2.32	4.65	12	33	8	97	0.00	0.0	4.391	0.002	0	0	0	7
PL.36103	PD.5118	B	#4 ACSR	7.36Y	122.7	0.01	2.33	4.65	4	33	8	97	0.00	0.0	4.469	0.078	9	2	1	7
PL.35305	PL.36103	B	#4 ACSR	7.36Y	122.7	0.00	2.34	3.34	3	24	6	97	0.00	0.0	4.496	0.027	7	2	2	6
PL.35306	PL.35305	B	#4 ACSR	7.36Y	122.7	0.00	2.34	2.33	2	17	4	97	0.00	0.0	4.546	0.049	12	3	1	4
PL.33340	PL.35306	B	#4 ACSR	7.36Y	122.7	0.00	2.34	0.71	1	5	1	98	0.00	0.0	4.570	0.024	0	0	1	3
PL.33341	PL.33340	B	#4 ACSR	7.36Y	122.7	0.00	2.34	0.70	1	5	1	98	0.00	0.0	4.627	0.057	5	1	1	2
PL.35884	PL.33341	B	#4 ACSR	7.36Y	122.7	0.00	2.34	0.02	0	0	0	100	0.00	0.0	4.657	0.030	0	0	0	1

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Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35885	PL.35884	B	#4 ACSR	7.36Y	122.7	0.00	2.34	0.02	0	0	0	100	0.00	0.0	4.676	0.019	0	0	1	1
PL.36484	PL.35030	C	#4 ACSR	7.37Y	122.8	0.00	2.21	2.51	2	18	4	98	0.00	0.0	4.276	0.001	0	0	0	1
PD.5252	PL.36484	C	40QA	7.37Y	122.8	0.00	2.21	2.51	6	18	4	98	0.00	0.0	4.276	0.001	0	0	0	1
PL.36485	PD.5252	C	#4 ACSR	7.37Y	122.8	0.00	2.21	2.51	2	18	4	98	0.00	0.0	4.309	0.033	18	4	1	1
PL.35602	PL.36485	C	#4 ACSR	7.37Y	122.8	0.00	2.21	0.00	0	0	0	100	0.00	0.0	4.354	0.045	0	0	0	0
PL.34763	PL.57909	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.17	0.11	0	2	1	89	0.00	0.0	4.261	0.045	2	1	1	1
PL.35379	PL.34763	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	4.263	0.002	0	0	0	0
PD.5680	PL.35379	ABC	40QA	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	4.263	0.002	0	0	0	0
PL.59104	PD.5680	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	4.304	0.041	0	0	0	0
PL.33557	PL.34763	ABC	#4 ACSR	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	4.653	0.391	0	0	0	0
PL.36712	PL.57909	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.17	1.34	1	29	7	97	0.00	0.0	4.217	0.001	0	0	0	3
PD.5730	PL.36712	ABC	40QA	7.37Y	122.8	0.00	2.17	1.34	3	29	7	97	0.00	0.0	4.217	0.001	0	0	0	3
PL.34227	PD.5730	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.17	1.34	1	29	7	97	0.00	0.0	4.256	0.038	6	1	1	3
PL.36076	PL.34227	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.17	1.06	0	23	5	98	0.00	0.0	4.288	0.032	0	0	0	2
PL.36078	PL.36076	C	#2 ACSR	7.37Y	122.8	0.00	2.17	1.81	1	13	3	97	0.00	0.0	4.289	0.001	0	0	0	1
PD.5679	PL.36078	C	40QA	7.37Y	122.8	0.00	2.17	1.81	5	13	3	97	0.00	0.0	4.289	0.001	0	0	0	1
PL.36079	PD.5679	C	#2 ACSR	7.37Y	122.8	0.00	2.18	1.81	1	13	3	97	0.00	0.0	4.307	0.019	13	3	1	1
PL.36077	PL.36076	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.17	0.45	0	10	2	98	0.00	0.0	4.317	0.029	10	2	1	1
PL.57606	PL.57605	ABC	1/0 AL URD	7.37Y	122.9	0.01	2.12	35.04	21	698	338	90	0.04	0.0	4.149	0.028	698	338	2	2
PL.57607	PL.57604	ABC	1/0 AL URD	7.38Y	122.9	0.00	2.07	0.00	0	0	0	100	0.00	0.0	4.115	0.025	0	0	0	0
PL.34256	PL.62425	C	6 A (CWC)	7.38Y	123.0	0.00	2.01	1.70	1	12	3	97	0.00	0.0	4.079	0.031	12	3	1	1
PL.62475	PL.62426	A	#4 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	4.200	0.234	0	0	0	0
PL.62476	PL.62426	C	#4 ACSR	7.39Y	123.1	0.00	1.90	1.91	1	14	3	98	0.00	0.0	3.969	0.003	0	0	0	1
PD.9350	PL.62476	C	30T	7.39Y	123.1	0.00	1.90	1.91	0	14	3	98	0.00	0.0	3.969	0.003	0	0	0	1
PL.62477	PD.9350	C	#4 ACSR	7.39Y	123.1	0.00	1.90	1.91	1	14	3	98	0.00	0.0	4.027	0.058	14	3	1	1
PL.63931	PL.35284	A	#1/0 ACSR	7.39Y	123.2	0.01	1.81	19.08	8	137	32	97	0.01	0.0	3.929	0.031	0	0	0	16
PL.63657	PL.63931	A	1/0 AL URD	7.39Y	123.2	0.00	1.81	1.31	1	9	2	98	0.00	0.0	3.995	0.066	9	2	1	1
PL.63656	PL.63657	A	1/0 AL URD	7.39Y	123.2	0.00	1.81	0.00	0	0	0	100	0.00	0.0	5.058	1.062	0	0	0	0
PL.63934	PL.63931	A	1/0 AL URD	7.39Y	123.2	0.00	1.82	17.76	10	128	30	97	0.00	0.0	3.932	0.003	0	0	0	15
PD.9501	PL.63934	A	T	7.39Y	123.2	0.00	1.82	17.76	0	128	30	97	0.00	0.0	3.932	0.003	0	0	0	15
PL.63935	PD.9501	A	1/0 AL URD	7.36Y	122.7	0.47	2.28	17.76	10	128	30	97	0.47	0.4	4.773	0.841	0	0	0	15

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.63933	PL.63935	A	#2 ACSR	7.36Y	122.7	0.02	2.30	15.70	9	113	26	97	0.02	0.0	4.821	0.048	0	0	0	14
PL.63929	PL.63933	A	#2 ACSR	7.36Y	122.6	0.11	2.41	15.70	9	113	26	97	0.09	0.1	5.053	0.232	8	2	1	14
PL.35591	PL.63929	A	#2 ACSR	7.35Y	122.5	0.06	2.47	14.53	8	104	24	97	0.05	0.0	5.189	0.135	0	0	0	13
PL.34955	PL.35591	A	#2 ACSR	7.35Y	122.5	0.00	2.47	1.10	1	8	2	97	0.00	0.0	5.214	0.026	8	2	1	1
PL.35571	PL.35591	A	#2 ACSR	7.35Y	122.5	0.01	2.49	13.43	8	96	22	97	0.01	0.0	5.221	0.032	27	6	1	12
PL.35570	PL.35571	A	#2 ACSR	7.35Y	122.5	0.01	2.49	9.72	6	70	16	97	0.00	0.0	5.250	0.029	5	1	1	11
PL.34262	PL.35570	A	#2 ACSR	7.35Y	122.5	0.04	2.53	9.04	5	65	15	97	0.02	0.0	5.380	0.130	0	0	0	10
PL.35063	PL.34262	A	1/0 AL URD	7.35Y	122.5	0.00	2.53	1.25	1	9	2	98	0.00	0.0	5.416	0.036	9	2	2	2
PL.34455	PL.34262	A	#2 ACSR	7.35Y	122.5	0.02	2.55	7.79	4	56	13	97	0.01	0.0	5.459	0.079	3	1	2	8
PL.34456	PL.34455	A	#2 ACSR	7.35Y	122.4	0.02	2.56	7.27	4	52	12	97	0.01	0.0	5.543	0.084	15	4	1	5
PL.59735	PL.34456	A	#2 ACSR	7.34Y	122.4	0.05	2.61	5.13	3	37	9	97	0.01	0.0	5.831	0.288	0	0	0	4
PL.64044	PL.59735	A	#2 ACSR	7.34Y	122.4	0.01	2.62	1.79	1	13	3	97	0.00	0.0	5.933	0.102	1	0	1	2
PL.64045	PL.64044	A	#2 ACSR	7.34Y	122.4	0.00	2.62	1.71	1	12	3	97	0.00	0.0	6.067	0.134	12	3	1	1
PL.59736	PL.59735	A	#1/0 ACSR	7.34Y	122.4	0.00	2.61	3.34	1	24	6	97	0.00	0.0	5.831	0.001	0	0	0	2
PD.8838	PL.59736	A	40QA	7.34Y	122.4	0.00	2.61	3.34	8	24	6	97	0.00	0.0	5.831	0.001	0	0	0	2
PL.59737	PD.8838	A	#1/0 ACSR	7.34Y	122.4	0.00	2.61	3.34	1	24	6	97	0.00	0.0	5.877	0.046	0	0	0	2
PL.59739	PL.59737	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	5.878	0.001	0	0	0	0
PD.8839	PL.59739	A	40QA	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	5.878	0.001	0	0	0	0
PL.59740	PD.8839	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	5.961	0.084	0	0	0	0
PL.59847	PL.59740	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	5.962	0.001	0	0	0	0
PD.8840	PL.59847	A	100CodeSMo	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	5.962	0.001	0	0	0	0
PL.59848	PD.8840	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.015	0.053	0	0	0	0
PL.59849	PL.59848	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.058	0.043	0	0	0	0
PL.59850	PL.59849	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.061	0.004	0	0	0	0
PD.8843	PL.59850	A	100CodeSMo	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.061	0.004	0	0	0	0
PL.59851	PD.8843	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.090	0.029	0	0	0	0
PL.63879	PL.59851	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.156	0.066	0	0	0	0
PL.63881	PL.63879	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.185	0.028	0	0	0	0
PL.63880	PL.63879	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.207	0.051	0	0	0	0
PL.59741	PL.63880	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.255	0.048	0	0	0	0
PL.59742	PL.59741	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.325	0.070	0	0	0	0

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.59743	PL.59742	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.372	0.047	0	0	0	0
PL.59744	PL.59743	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.424	0.052	0	0	0	0
PL.59745	PL.59744	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.483	0.058	0	0	0	0
PL.59746	PL.59745	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.557	0.074	0	0	0	0
PL.59747	PL.59746	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.608	0.051	0	0	0	0
PL.59852	PL.59747	A	1/0 AL URD	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	6.630	0.022	0	0	0	0
PL.59738	PL.59737	A	1/0 AL URD	7.34Y	122.4	0.01	2.62	3.34	2	24	6	97	0.00	0.0	5.963	0.086	0	0	0	2
PD.8841	PL.59738	A	100CodeSMo	7.34Y	122.4	0.00	2.62	3.34	0	24	6	97	0.00	0.0	5.963	0.086	0	0	0	2
PL.59842	PD.8841	A	1/0 AL URD	7.34Y	122.4	0.01	2.63	3.34	2	24	6	97	0.00	0.0	6.058	0.095	0	0	0	2
PD.8842	PL.59842	A	100CodeSMo	7.34Y	122.4	0.00	2.63	3.34	0	24	6	97	0.00	0.0	6.058	0.095	0	0	0	2
PL.59843	PD.8842	A	1/0 AL URD	7.34Y	122.4	0.00	2.64	3.34	2	24	6	97	0.00	0.0	6.092	0.035	11	3	1	2
PL.59844	PL.59843	A	1/0 AL URD	7.34Y	122.4	0.01	2.64	1.81	1	13	3	97	0.00	0.0	6.204	0.112	0	0	0	1
PL.59845	PL.59844	A	1/0 AL URD	7.34Y	122.4	0.01	2.65	1.81	1	13	3	97	0.00	0.0	6.324	0.120	0	0	0	1
PL.64715	PL.59845	A	1/0 AL URD	7.34Y	122.3	0.00	2.65	1.81	1	13	3	97	0.00	0.0	6.430	0.106	13	3	1	1
PL.64716	PL.64715	A	1/0 AL URD	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	6.563	0.133	0	0	0	0
PL.59846	PL.64716	A	1/0 AL URD	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	6.645	0.082	0	0	0	0
PD.8845	PL.59846	A	100CodeSMo	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	6.645	0.082	0	0	0	0
PL.59903	PD.8845	A	1/0 AL URD	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	6.647	0.002	0	0	0	0
PL.59853	PL.59903	A	1/0 AL URD	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	6.653	0.006	0	0	0	0
PL.34153	PL.34455	A	#2 ACSR	7.35Y	122.5	0.00	2.55	0.12	0	1	0	100	0.00	0.0	5.486	0.027	1	0	1	1
PL.63930	PL.63933	A	1/0 AL URD	7.36Y	122.7	0.00	2.30	0.00	0	0	0	100	0.00	0.0	5.329	0.508	0	0	0	0
PL.63932	PL.63935	A	#2 ACSR	7.36Y	122.7	0.00	2.28	2.06	1	15	3	98	0.00	0.0	4.773	0.000	0	0	0	1
PL.62685	PL.63932	A	1/0 AL URD	7.36Y	122.7	0.00	2.28	2.06	1	15	3	98	0.00	0.0	4.786	0.013	15	3	1	1
PL.64364	PL.36711	B	#2 ACSR	7.40Y	123.3	0.00	1.74	1.37	1	10	2	98	0.00	0.0	3.896	0.037	10	2	2	2
PL.35376	PL.33224	A	#2 ACSR	7.41Y	123.5	0.00	1.52	2.12	1	15	4	97	0.00	0.0	3.716	0.001	0	0	0	1
PD.5829	PL.35376	A	40QA	7.41Y	123.5	0.00	1.52	2.12	5	15	4	97	0.00	0.0	3.716	0.001	0	0	0	1
PL.59942	PD.5829	A	#2 ACSR	7.41Y	123.5	0.00	1.52	2.12	1	15	4	97	0.00	0.0	3.767	0.051	15	4	1	1
PL.33863	PL.35213	C	#4 ACSR	7.42Y	123.6	0.00	1.35	2.24	2	16	4	97	0.00	0.0	3.608	0.000	0	0	0	3
PD.5032	PL.33863	C	40QA	7.42Y	123.6	0.00	1.35	2.24	6	16	4	97	0.00	0.0	3.608	0.000	0	0	0	3
PL.35096	PD.5032	C	#4 ACSR	7.42Y	123.6	0.00	1.36	2.24	2	16	4	97	0.00	0.0	3.634	0.026	3	1	1	3
PL.33862	PL.35096	C	#4 ACSR	7.42Y	123.6	0.00	1.36	1.88	1	14	3	98	0.00	0.0	3.691	0.057	14	3	2	2

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36611	PL.63877	A	#2 ACSR	7.43Y	123.8	0.00	1.22	3.14	2	23	5	98	0.00	0.0	3.525	0.001	0	0	0	2
PD.5031	PL.36611	A	40QA	7.43Y	123.8	0.00	1.22	3.14	8	23	5	98	0.00	0.0	3.525	0.001	0	0	0	2
PL.36612	PD.5031	A	#2 ACSR	7.43Y	123.8	0.00	1.23	3.14	2	23	5	98	0.00	0.0	3.577	0.052	10	2	1	2
PL.36609	PL.36612	A	#2 ACSR	7.43Y	123.8	0.00	1.23	1.73	1	13	3	97	0.00	0.0	3.602	0.025	13	3	1	1
PL.57198	PL.52166	ABC	#3/0 ACSR	7.46Y	124.4	0.10	0.64	90.14	30	1958	494	97	1.18	0.1	3.196	0.087	0	0	0	227
PL.57197	PL.57198	ABC	336 MCM AC	7.46Y	124.3	0.04	0.68	60.25	12	1305	340	97	0.30	0.0	3.295	0.099	0	0	0	151
PL.57200	PL.57197	ABC	336 MCM AC	7.46Y	124.3	0.00	0.68	60.25	12	1305	339	97	0.00	0.0	3.296	0.001	0	0	0	151
PD.5853	PL.57200	ABC	100L	7.46Y	124.3	0.00	0.68	60.25	60	1305	339	97	0.00	0.0	3.296	0.001	0	0	0	151
PL.57202	PD.5853	ABC	336 MCM AC	7.46Y	124.3	0.00	0.69	60.25	12	1305	339	97	0.03	0.0	3.306	0.010	9	2	1	151
PL.57201	PL.57202	ABC	336 MCM AC	7.46Y	124.3	0.02	0.71	59.85	12	1296	337	97	0.16	0.0	3.357	0.052	0	0	0	150
PL.35277	PL.57201	ABC	336 MCM AC	7.46Y	124.3	0.03	0.73	50.66	10	1096	290	97	0.15	0.0	3.428	0.071	0	0	0	123
PL.57207	PL.35277	C	6 A (CWC)	7.46Y	124.3	0.00	0.74	3.87	3	28	7	97	0.00	0.0	3.432	0.004	0	0	0	2
PD.8268	PL.57207	C	50QA	7.46Y	124.3	0.00	0.74	3.87	8	28	7	97	0.00	0.0	3.432	0.004	0	0	0	2
PL.57208	PD.8268	C	6 A (CWC)	7.46Y	124.3	0.00	0.74	3.87	3	28	7	97	0.00	0.0	3.485	0.053	28	7	2	2
PL.57209	PL.35277	ABC	336 MCM AC	7.46Y	124.3	0.01	0.75	49.37	10	1067	283	97	0.08	0.0	3.467	0.039	31	7	3	121
PL.57252	PL.57209	ABC	336 MCM AC	7.45Y	124.2	0.01	0.76	47.95	9	1036	276	97	0.08	0.0	3.510	0.042	8	2	1	118
PL.57253	PL.57252	ABC	336 MCM AC	7.45Y	124.2	0.00	0.77	47.60	9	1029	274	97	0.03	0.0	3.523	0.014	0	0	0	117
PL.57254	PL.57253	ABC	336 MCM AC	7.45Y	124.2	0.00	0.77	43.39	8	941	237	97	0.02	0.0	3.536	0.013	10	2	1	110
PL.57251	PL.57254	ABC	336 MCM AC	7.45Y	124.2	0.01	0.78	42.91	8	930	235	97	0.05	0.0	3.570	0.034	5	1	1	109
PL.57250	PL.57251	ABC	336 MCM AC	7.45Y	124.2	0.00	0.79	42.69	8	926	234	97	0.02	0.0	3.585	0.015	5	1	1	108
PL.57210	PL.57250	ABC	336 MCM AC	7.45Y	124.2	0.02	0.80	42.48	8	921	232	97	0.08	0.0	3.638	0.053	0	0	0	107
PL.59491	PL.57210	C	6 A (CWC)	7.45Y	124.2	0.00	0.80	1.55	1	11	3	96	0.00	0.0	3.642	0.003	0	0	0	3
PD.8909	PL.59491	C	10QA	7.45Y	124.2	0.00	0.80	1.55	0	11	3	96	0.00	0.0	3.642	0.003	0	0	0	3
PL.59976	PD.8909	C	6 A (CWC)	7.45Y	124.2	0.00	0.80	1.55	1	11	3	96	0.00	0.0	3.672	0.030	11	3	3	3
PL.57211	PL.57210	ABC	336 MCM AC	7.45Y	124.2	0.01	0.82	41.96	8	909	230	97	0.06	0.0	3.681	0.042	22	5	2	104
PL.57212	PL.57211	ABC	336 MCM AC	7.45Y	124.2	0.01	0.83	40.94	8	887	224	97	0.04	0.0	3.712	0.032	18	4	3	102
PL.57213	PL.57212	ABC	336 MCM AC	7.45Y	124.2	0.02	0.85	39.51	8	856	217	97	0.10	0.0	3.788	0.076	37	8	3	98
PL.57215	PL.57213	C	#1/0 ACSR	7.45Y	124.2	0.00	0.85	0.00	0	0	0	100	0.00	0.0	3.795	0.006	0	0	0	0
PD.8269	PL.57215	C	10QA	7.45Y	124.2	0.00	0.85	0.00	0	0	0	100	0.00	0.0	3.795	0.006	0	0	0	0
PL.57216	PD.8269	C	#1/0 ACSR	7.45Y	124.2	0.00	0.85	0.00	0	0	0	100	0.00	0.0	3.879	0.084	0	0	0	0
PL.57214	PL.57213	ABC	336 MCM AC	7.45Y	124.1	0.02	0.86	37.83	7	819	208	97	0.07	0.0	3.850	0.062	0	0	0	95

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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.57217	PL.57214	ABC	336 MCM AC	7.45Y	124.1	0.05	0.91	37.83	7	819	208	97	0.20	0.0	4.017	0.167	0	0	0	95
PL.57220	PL.57217	ABC	336 MCM AC	7.44Y	124.1	0.02	0.93	37.83	7	819	208	97	0.10	0.0	4.096	0.079	0	0	0	95
PL.57058	PL.57220	ABC	336 MCM AC	7.44Y	124.1	0.01	0.94	35.79	7	774	197	97	0.05	0.0	4.142	0.045	0	0	0	86
PL.62069	PL.57058	ABC	336 MCM AC	7.44Y	124.0	0.04	0.98	35.79	7	774	197	97	0.17	0.0	4.301	0.159	0	0	1	86
PL.62070	PL.62069	ABC	336 MCM AC	7.44Y	124.0	0.02	1.01	35.79	7	774	197	97	0.10	0.0	4.390	0.089	0	0	0	85
PL.62059	PL.62070	ABC	336 MCM AC	7.44Y	124.0	0.01	1.02	35.79	7	774	196	97	0.04	0.0	4.424	0.034	0	0	0	85
PL.62060	PL.62059	ABC	336 MCM AC	7.44Y	124.0	0.01	1.03	35.79	7	774	196	97	0.05	0.0	4.472	0.048	0	0	0	85
PL.57060	PL.62060	A	#1/0 ACSR	7.44Y	124.0	0.00	1.03	1.86	1	13	3	97	0.00	0.0	4.477	0.005	0	0	0	1
PD.8337	PL.57060	A	20T	7.44Y	124.0	0.00	1.03	1.86	0	13	3	97	0.00	0.0	4.477	0.005	0	0	0	1
PL.57059	PD.8337	A	#1/0 ACSR	7.44Y	124.0	0.00	1.03	1.86	1	13	3	97	0.00	0.0	4.562	0.085	13	3	1	1
PL.57061	PL.62060	ABC	#1/0 ACSR	7.44Y	124.0	0.00	1.03	1.64	1	33	16	90	0.00	0.0	4.476	0.004	0	0	0	1
PD.8338	PL.57061	ABC	40QA	7.44Y	124.0	0.00	1.03	1.64	4	33	16	90	0.00	0.0	4.476	0.004	0	0	0	1
PL.57062	PD.8338	ABC	#1/0 ACSR	7.44Y	124.0	0.00	1.03	1.64	1	33	16	90	0.00	0.0	4.540	0.064	0	0	0	1
PL.57279	PL.57062	ABC	#1/0 ACSR	7.44Y	124.0	0.00	1.03	1.64	1	33	16	90	0.00	0.0	4.568	0.028	33	16	1	1
PL.57063	PL.62060	ABC	336 MCM AC	7.44Y	124.0	0.02	1.05	33.56	6	728	177	97	0.08	0.0	4.560	0.087	0	0	0	83
PL.57067	PL.57063	ABC	336 MCM AC	7.44Y	123.9	0.01	1.06	33.56	6	728	177	97	0.03	0.0	4.593	0.033	0	0	0	83
PL.57068	PL.57067	A	#1/0 ACSR	7.44Y	123.9	0.00	1.06	1.97	1	14	3	98	0.00	0.0	4.597	0.004	0	0	0	1
PD.8340	PL.57068	A	10QA	7.44Y	123.9	0.00	1.06	1.97	0	14	3	98	0.00	0.0	4.597	0.004	0	0	0	1
PL.57069	PD.8340	A	#1/0 ACSR	7.44Y	123.9	0.00	1.06	1.97	1	14	3	98	0.00	0.0	4.622	0.025	0	0	0	1
PL.57066	PL.57069	A	6 A (CWC)	7.44Y	123.9	0.00	1.06	1.97	1	14	3	98	0.00	0.0	4.648	0.026	14	3	1	1
PL.57070	PL.57067	ABC	336 MCM AC	7.44Y	123.9	0.01	1.07	32.91	6	713	174	97	0.04	0.0	4.633	0.041	8	2	1	82
PL.57073	PL.57070	ABC	336 MCM AC	7.43Y	123.9	0.05	1.12	32.56	6	706	172	97	0.19	0.0	4.843	0.210	0	0	0	81
PL.57079	PL.57073	ABC	336 MCM AC	7.43Y	123.8	0.07	1.19	31.29	6	678	165	97	0.27	0.0	5.175	0.332	0	0	0	77
PL.62547	PL.57079	ABC	336 MCM AC	7.42Y	123.7	0.12	1.31	30.60	6	663	161	97	0.42	0.1	5.711	0.536	0	0	0	75
PL.62548	PL.62547	ABC	336 MCM AC	7.42Y	123.7	0.01	1.32	30.60	6	662	160	97	0.05	0.0	5.773	0.062	0	0	0	75
PL.56415	PL.62548	A	#1/0 ACSR	7.42Y	123.7	0.00	1.32	6.18	3	45	10	98	0.00	0.0	5.797	0.024	0	0	0	6
PL.63866	PL.56415	A	#4 ACSR	7.42Y	123.7	0.00	1.32	6.18	5	45	10	98	0.00	0.0	5.799	0.001	0	0	0	6
PD.9493	PL.63866	A	50QA	7.42Y	123.7	0.00	1.32	6.18	12	45	10	98	0.00	0.0	5.799	0.001	0	0	0	6
PL.63867	PD.9493	A	#4 ACSR	7.42Y	123.7	0.01	1.33	2.16	2	16	4	97	0.00	0.0	5.868	0.069	0	0	0	3
PL.63868	PL.63867	A	#4 ACSR	7.42Y	123.7	0.00	1.33	2.16	2	16	4	97	0.00	0.0	5.915	0.048	16	4	3	3
PL.36478	PL.63868	A	#4 ACSR	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	5.962	0.047	0	0	0	0

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.63869	PD.9493	A	#4 ACSR	7.42Y	123.7	0.01	1.33	4.02	3	29	7	97	0.00	0.0	5.840	0.041	15	3	1	3
PL.56413	PL.63869	A	#4 ACSR	7.42Y	123.7	0.00	1.33	2.00	2	14	3	98	0.00	0.0	5.885	0.045	3	1	1	2
PL.56414	PL.56413	A	#4 ACSR	7.42Y	123.7	0.00	1.34	1.60	1	12	3	97	0.00	0.0	5.967	0.083	12	3	1	1
PL.57085	PL.62548	ABC	336 MCM AC	7.42Y	123.7	0.02	1.34	26.56	5	575	139	97	0.08	0.0	5.904	0.132	0	0	0	66
PL.57091	PL.57085	ABC	336 MCM AC	7.42Y	123.6	0.07	1.42	23.93	5	517	126	97	0.20	0.0	6.326	0.422	0	0	0	60
PL.59615	PL.57091	ABC	#1/0 ACSR	7.41Y	123.5	0.08	1.49	23.93	10	517	126	97	0.28	0.1	6.511	0.185	0	0	0	60
PL.59616	PL.59615	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.51	23.93	10	517	125	97	0.04	0.0	6.536	0.025	0	0	0	60
PL.61998	PL.59616	A	6 A (CWC)	7.41Y	123.5	0.01	1.51	12.18	9	88	20	98	0.01	0.0	6.554	0.018	10	2	1	15
PL.61996	PL.61998	A	6 A (CWC)	7.41Y	123.4	0.04	1.56	10.85	8	78	18	97	0.02	0.0	6.653	0.099	14	3	1	14
PL.61997	PL.61996	A	6 A (CWC)	7.40Y	123.4	0.05	1.61	8.86	6	64	15	97	0.03	0.0	6.789	0.136	0	0	0	13
PL.61999	PL.61997	A	6 A (CWC)	7.40Y	123.4	0.00	1.61	0.00	0	0	0	100	0.00	0.0	6.834	0.044	0	0	0	0
PL.62000	PL.61997	A	6 A (CWC)	7.40Y	123.4	0.02	1.63	6.84	5	49	11	98	0.01	0.0	6.844	0.054	0	0	0	9
PL.35220	PL.62000	A	6 A (CWC)	7.40Y	123.3	0.03	1.66	6.84	5	49	11	98	0.01	0.0	6.968	0.125	15	3	1	9
PL.34218	PL.35220	A	6 A (CWC)	7.40Y	123.3	0.02	1.68	4.76	3	34	8	97	0.00	0.0	7.057	0.088	0	0	0	8
PL.35188	PL.34218	A	6 A (CWC)	7.40Y	123.3	0.00	1.68	0.00	0	0	0	100	0.00	0.0	7.197	0.141	0	0	0	0
PL.64369	PL.34218	A	6 A (CWC)	7.39Y	123.2	0.12	1.80	4.76	3	34	8	97	0.03	0.1	7.594	0.537	0	0	0	8
PL.63683	PL.64369	A	6 A (CWC)	7.39Y	123.2	0.03	1.83	3.95	3	28	7	97	0.01	0.0	7.759	0.165	0	0	0	7
PL.35693	PL.63683	A	6 A (CWC)	7.39Y	123.1	0.04	1.86	3.95	3	28	7	97	0.01	0.0	7.971	0.211	0	0	0	7
PL.34283	PL.35693	A	6 A (CWC)	7.39Y	123.1	0.02	1.88	3.95	3	28	7	97	0.00	0.0	8.084	0.113	0	0	0	7
PL.33695	PL.34283	A	#4 ACSR	7.39Y	123.1	0.00	1.89	0.27	0	2	0	100	0.00	0.0	8.150	0.066	0	0	0	1
PL.33696	PL.33695	A	#4 ACSR	7.39Y	123.1	0.00	1.89	0.27	0	2	0	100	0.00	0.0	8.735	0.585	2	0	1	1
PL.34282	PL.34283	A	6 A (CWC)	7.39Y	123.1	0.01	1.89	3.68	3	27	6	98	0.00	0.0	8.117	0.033	0	0	0	6
PL.35119	PL.34282	A	6 A (CWC)	7.39Y	123.1	0.01	1.90	3.68	3	26	6	97	0.00	0.0	8.173	0.056	0	0	0	6
PL.57756	PL.35119	A	6 A (CWC)	7.39Y	123.1	0.01	1.91	3.51	3	25	6	97	0.00	0.0	8.267	0.094	0	0	0	3
PL.57757	PL.57756	A	6 A (CWC)	7.38Y	123.0	0.07	1.99	3.51	3	25	6	97	0.01	0.1	8.715	0.448	0	0	0	3
PL.36350	PL.57757	A	6 A (CWC)	7.38Y	123.0	0.05	2.04	2.63	2	19	4	98	0.01	0.0	9.178	0.463	0	0	0	2
PL.35612	PL.36350	A	6 A (CWC)	7.38Y	123.0	0.00	2.04	2.63	2	19	4	98	0.00	0.0	9.216	0.037	16	4	1	2
PL.36040	PL.35612	A	6 A (CWC)	7.38Y	123.0	0.00	2.04	0.45	0	3	1	95	0.00	0.0	9.293	0.078	0	0	0	1
PL.35217	PL.36040	A	#2 ACSR	7.38Y	123.0	0.00	2.05	0.45	0	3	1	95	0.00	0.0	9.449	0.156	3	1	1	1
PL.36041	PL.36041	A	6 A (CWC)	7.38Y	123.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	9.335	0.041	0	0	0	0
PL.35216	PL.36041	A	#4 ACSR	7.38Y	123.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	9.428	0.093	0	0	0	0

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36042	PL.36041	A	6 A (CWC)	7.38Y	123.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	9.429	0.095	0	0	0	0
PL.35614	PL.36350	A	#4 ACSR	7.38Y	123.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	9.250	0.072	0	0	0	0
PL.35615	PL.35614	A	#4 ACSR	7.38Y	123.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	9.318	0.067	0	0	0	0
PL.35613	PL.35615	A	#4 ACSR	7.38Y	123.0	0.00	2.04	0.00	0	0	0	100	0.00	0.0	9.418	0.100	0	0	0	0
PL.33755	PL.57757	A	#4 ACSR	7.38Y	123.0	0.00	1.99	0.89	1	6	1	99	0.00	0.0	8.781	0.066	6	1	1	1
PL.35120	PL.35119	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	0.17	0	1	0	100	0.00	0.0	8.353	0.180	0	0	1	3
PL.59485	PL.35120	A	#1/0 ACSR	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	8.384	0.031	0	0	1	1
PL.35121	PL.35120	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	0.16	0	1	0	100	0.00	0.0	8.658	0.305	1	0	1	1
PL.35218	PL.34282	A	6 A (CWC)	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	8.150	0.033	0	0	0	0
PL.63684	PL.64369	A	#1/0 ACSR	7.39Y	123.2	0.00	1.80	0.81	0	6	1	99	0.00	0.0	7.667	0.073	0	0	0	1
PL.63685	PL.63684	A	#1/0 ACSR	7.39Y	123.2	0.00	1.80	0.81	0	6	1	99	0.00	0.0	7.714	0.048	6	1	1	1
PL.62001	PL.61997	A	6 A (CWC)	7.40Y	123.4	0.01	1.62	2.02	1	15	3	98	0.00	0.0	6.906	0.116	0	0	2	4
PL.36104	PL.62001	A	6 A (CWC)	7.40Y	123.4	0.00	1.63	1.47	1	11	2	98	0.00	0.0	6.968	0.062	11	2	1	1
PL.34985	PL.62001	A	6 A (CWC)	7.40Y	123.4	0.00	1.62	0.56	0	4	1	97	0.00	0.0	6.996	0.091	4	1	1	1
PL.59617	PL.59616	B	6 A (CWC)	7.41Y	123.5	0.01	1.51	59.60	43	429	105	97	0.02	0.0	6.539	0.003	0	0	0	45
PD.8804	PL.59617	B	100L	7.41Y	123.5	0.00	1.51	59.60	60	429	105	97	0.00	0.0	6.539	0.003	0	0	0	45
PL.59618	PD.8804	B	6 A (CWC)	7.33Y	122.2	1.27	2.78	59.60	43	429	105	97	4.07	0.9	7.010	0.471	0	0	0	45
PL.59689	PL.59618	B	6 A (CWC)	7.32Y	122.0	0.21	2.99	59.60	43	425	102	97	0.67	0.2	7.088	0.078	0	0	0	45
PL.59687	PL.59689	B	#4 ACSR	7.32Y	122.0	0.00	2.99	0.00	0	0	0	100	0.00	0.0	7.187	0.099	0	0	0	0
PL.59688	PL.59689	B	6 A (CWC)	7.32Y	122.0	0.00	2.99	0.00	0	0	0	100	0.00	0.0	7.128	0.040	0	0	1	1
PL.59690	PL.59689	B	6 A (CWC)	7.31Y	121.9	0.09	3.09	22.52	16	161	37	97	0.11	0.1	7.177	0.090	0	0	0	4
PL.35941	PL.59690	B	6 A (CWC)	7.31Y	121.9	0.00	3.09	22.52	16	160	37	97	0.00	0.0	7.178	0.001	0	0	0	4
PD.5734	PL.35941	B	40QA	7.31Y	121.9	0.00	3.09	22.52	56	160	37	97	0.00	0.0	7.178	0.001	0	0	0	4
PL.36664	PD.5734	B	6 A (CWC)	7.31Y	121.8	0.15	3.24	22.52	16	160	37	97	0.18	0.1	7.333	0.155	13	3	1	4
PL.36178	PL.36664	B	6 A (CWC)	7.28Y	121.3	0.48	3.72	20.76	15	148	34	97	0.51	0.3	7.886	0.553	23	5	1	3
PL.35609	PL.36178	B	6 A (CWC)	7.28Y	121.3	0.00	3.72	0.00	0	0	0	100	0.00	0.0	7.943	0.057	0	0	0	0
PL.36495	PL.35609	B	6 A (CWC)	7.28Y	121.3	0.00	3.72	0.00	0	0	0	100	0.00	0.0	7.961	0.018	0	0	0	0
PL.35308	PL.36495	B	6 A (CWC)	7.28Y	121.3	0.00	3.72	0.00	0	0	0	100	0.00	0.0	7.992	0.031	0	0	0	0
PL.35536	PL.35308	B	6 A (CWC)	7.28Y	121.3	0.00	3.72	0.00	0	0	0	100	0.00	0.0	8.144	0.152	0	0	0	0
PL.64571	PL.35609	B	#4 ACSR	7.28Y	121.3	0.00	3.72	0.00	0	0	0	100	0.00	0.0	7.961	0.018	0	0	0	0
PL.64572	PL.64571	B	#1/0 ACSR	7.28Y	121.3	0.00	3.72	0.00	0	0	0	100	0.00	0.0	7.975	0.013	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.64573	PL.64572	B	#1/0 ACSR	7.28Y	121.3	0.00	3.72	0.00	0	0	0	100	0.00	0.0	8.052	0.078	0	0	0	0
PL.35264	PL.36178	B	#2 ACSR	7.28Y	121.3	0.01	3.72	17.51	10	124	29	97	0.00	0.0	7.912	0.026	124	29	2	2
PL.59686	PL.59689	B	6 A (CWC)	7.25Y	120.9	1.09	4.09	37.08	26	264	64	97	2.17	0.8	7.738	0.650	0	0	0	40
PL.35210	PL.59686	B	6 A (CWC)	7.25Y	120.9	0.00	4.09	4.54	3	32	7	98	0.00	0.0	7.743	0.005	0	0	0	4
PD.5681	PL.35210	B	40QA	7.25Y	120.9	0.00	4.09	4.54	11	32	7	98	0.00	0.0	7.743	0.005	0	0	0	4
PL.35211	PD.5681	B	6 A (CWC)	7.25Y	120.9	0.03	4.11	4.54	3	32	7	98	0.01	0.0	7.874	0.130	0	0	0	4
PL.34284	PL.35211	B	6 A (CWC)	7.25Y	120.9	0.00	4.12	0.16	0	1	0	100	0.00	0.0	8.075	0.201	0	0	0	1
PL.34285	PL.34284	B	6 A (CWC)	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	8.155	0.080	0	0	0	0
PL.33378	PL.34284	B	6 A (CWC)	7.25Y	120.9	0.00	4.12	0.16	0	1	0	100	0.00	0.0	8.098	0.023	1	0	1	1
PL.33382	PL.34284	B	6 A (CWC)	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	8.097	0.023	0	0	0	0
PL.34848	PL.35211	B	6 A (CWC)	7.25Y	120.8	0.07	4.18	4.38	3	31	7	98	0.01	0.0	8.354	0.481	16	4	1	3
PL.59108	PL.34848	B	6 A (CWC)	7.25Y	120.8	0.00	4.19	2.10	1	15	3	98	0.00	0.0	8.405	0.051	0	0	0	2
PL.59109	PL.59108	B	6 A (CWC)	7.25Y	120.8	0.00	4.19	2.10	1	15	3	98	0.00	0.0	8.452	0.047	0	0	0	2
PL.59111	PL.59109	B	6 A (CWC)	7.25Y	120.8	0.00	4.19	2.10	1	15	3	98	0.00	0.0	8.470	0.018	15	3	2	2
PL.59110	PL.59109	B	6 A (CWC)	7.25Y	120.8	0.00	4.19	0.00	0	0	0	100	0.00	0.0	8.722	0.270	0	0	0	0
PL.35950	PL.59110	B	6 A (CWC)	7.25Y	120.8	0.00	4.19	0.00	0	0	0	100	0.00	0.0	8.847	0.125	0	0	0	0
PL.34427	PL.35950	B	6 A (CWC)	7.25Y	120.8	0.00	4.19	0.00	0	0	0	100	0.00	0.0	8.941	0.094	0	0	0	0
PL.36183	PL.35950	B	6 A (CWC)	7.25Y	120.8	0.00	4.19	0.00	0	0	0	100	0.00	0.0	8.935	0.089	0	0	0	0
PL.35417	PL.59110	B	6 A (CWC)	7.25Y	120.8	0.00	4.19	0.00	0	0	0	100	0.00	0.0	8.775	0.053	0	0	0	0
PL.64285	PL.59686	B	6 A (CWC)	7.25Y	120.9	0.00	4.09	32.53	23	229	56	97	0.01	0.0	7.741	0.003	0	0	0	36
PD.9515	PL.64285	B	30T	7.25Y	120.9	0.00	4.09	32.53	0	229	56	97	0.00	0.0	7.741	0.003	0	0	0	36
PL.64286	PD.9515	B	6 A (CWC)	7.23Y	120.5	0.36	4.45	32.53	23	229	56	97	0.64	0.3	7.988	0.247	0	0	0	36
PL.35227	PL.64286	B	6 A (CWC)	7.23Y	120.5	0.01	4.46	4.00	3	28	7	97	0.00	0.0	8.051	0.063	28	7	1	1
PL.36359	PL.64286	B	6 A (CWC)	7.22Y	120.3	0.29	4.75	28.53	20	201	49	97	0.44	0.2	8.220	0.232	10	2	1	35
PL.63878	PL.36359	B	#1/0 ACSR	7.22Y	120.3	0.00	4.75	2.07	1	15	3	98	0.00	0.0	8.311	0.091	15	3	1	1
PL.36360	PL.36359	B	6 A (CWC)	7.16Y	119.3	0.91	5.66	25.03	18	175	43	97	1.22	0.7	9.024	0.804	0	0	0	33
PL.35307	PL.36360	B	#4 ACSR	7.16Y	119.3	0.02	5.68	1.87	1	13	3	97	0.00	0.0	9.256	0.232	0	0	0	5
PL.35832	PL.35307	B	#4 ACSR	7.16Y	119.3	0.02	5.69	1.87	1	13	3	97	0.00	0.0	9.455	0.199	0	0	1	5
PL.35616	PL.35832	B	#4 ACSR	7.16Y	119.3	0.01	5.70	1.87	1	13	3	97	0.00	0.0	9.567	0.112	1	0	1	4
PL.35617	PL.35616	B	#4 ACSR	7.16Y	119.3	0.01	5.71	1.78	1	12	3	97	0.00	0.0	9.733	0.166	4	1	1	3
PL.35618	PL.35617	B	#4 ACSR	7.16Y	119.3	0.01	5.72	1.22	1	8	2	97	0.00	0.0	9.858	0.125	1	0	1	2

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35619	PL.35618	B	#4 ACSR	7.16Y	119.3	0.01	5.73	1.08	1	8	2	97	0.00	0.0	10.132	0.274	8	2	1	1
PL.33703	PL.36360	B	6 A (CWC)	7.15Y	119.1	0.19	5.85	23.16	17	161	39	97	0.24	0.1	9.206	0.182	0	0	0	28
REG19	PL.33703	B	76.2 KVA	7.53Y	125.4	-6.27	-0.42	23.16	23	161	39	97	percent Boost= 0.00 Tap= 0.0							28
PL.37072	REG19	B	6 A (CWC)	7.53Y	125.4	0.00	-0.42	22.00	16	161	39	97	0.00	0.0	9.207	0.001	0	0	0	28
PD.5029	PL.37072	B	30T	7.53Y	125.4	0.00	-0.42	22.00	0	161	39	97	0.00	0.0	9.207	0.001	0	0	0	28
PL.57342	PD.5029	B	6 A (CWC)	7.52Y	125.3	0.13	-0.29	22.00	16	161	39	97	0.15	0.1	9.338	0.131	0	0	0	28
PL.59487	PL.57342	B	6 A (CWC)	7.51Y	125.2	0.10	-0.19	22.00	16	161	39	97	0.12	0.1	9.440	0.102	0	0	0	28
PL.59489	PL.59487	B	6 A (CWC)	7.47Y	124.5	0.65	0.46	22.00	16	161	39	97	0.75	0.5	10.114	0.674	11	3	1	28
PL.59490	PL.59489	B	6 A (CWC)	7.47Y	124.4	0.12	0.58	20.44	15	149	36	97	0.13	0.1	10.243	0.130	0	0	0	27
PL.59488	PL.59490	B	6 A (CWC)	7.45Y	124.2	0.18	0.76	20.44	15	148	36	97	0.19	0.1	10.453	0.210	15	4	2	27
PL.59122	PL.59488	B	6 A (CWC)	7.44Y	123.9	0.30	1.06	18.31	13	133	32	97	0.30	0.2	10.816	0.363	0	0	1	25
PL.59907	PL.59122	B	6 A (CWC)	7.43Y	123.9	0.04	1.10	18.31	13	132	32	97	0.04	0.0	10.865	0.049	0	0	1	24
PL.59908	PL.59907	B	6 A (CWC)	7.43Y	123.8	0.10	1.21	18.31	13	132	32	97	0.10	0.1	10.987	0.123	0	0	1	23
PL.59189	PL.59908	B	6 A (CWC)	7.42Y	123.7	0.07	1.27	18.27	13	132	31	97	0.07	0.1	11.069	0.082	0	0	0	22
PL.59190	PL.59189	B	6 A (CWC)	7.41Y	123.4	0.30	1.58	18.27	13	132	31	97	0.30	0.2	11.437	0.367	0	0	0	22
PL.59990	PL.59190	B	6 A (CWC)	7.38Y	123.1	0.36	1.94	18.27	13	132	31	97	0.36	0.3	11.877	0.440	0	0	0	22
PL.59992	PL.59990	B	6 A (CWC)	7.36Y	122.7	0.40	2.34	18.27	13	131	31	97	0.39	0.3	12.361	0.484	0	0	0	22
PL.59991	PL.59992	B	6 A (CWC)	7.34Y	122.3	0.40	2.74	18.27	13	131	31	97	0.39	0.3	12.842	0.481	0	0	0	22
PL.62091	PL.59991	B	6 A (CWC)	7.34Y	122.3	0.00	2.74	9.93	7	71	17	97	0.00	0.0	12.845	0.003	0	0	0	13
PD.9360	PL.62091	B	20T	7.34Y	122.3	0.00	2.74	9.93	0	71	17	97	0.00	0.0	12.845	0.003	0	0	0	13
PL.62092	PD.9360	B	6 A (CWC)	7.33Y	122.1	0.11	2.85	9.93	7	71	17	97	0.06	0.1	13.095	0.250	0	0	0	13
PL.34583	PL.62092	B	6 A (CWC)	7.33Y	122.1	0.00	2.85	0.00	0	0	0	100	0.00	0.0	13.185	0.090	0	0	0	0
PL.35303	PL.62092	B	6 A (CWC)	7.33Y	122.1	0.06	2.91	9.93	7	71	17	97	0.03	0.0	13.229	0.134	0	0	0	13
PL.34702	PL.35303	B	6 A (CWC)	7.33Y	122.1	0.00	2.91	0.00	0	0	0	100	0.00	0.0	13.462	0.232	0	0	0	0
PL.36249	PL.35303	B	6 A (CWC)	7.32Y	122.0	0.14	3.05	9.93	7	71	17	97	0.07	0.1	13.536	0.306	0	0	1	13
PL.36250	PL.36249	B	6 A (CWC)	7.30Y	121.6	0.34	3.39	9.93	7	71	16	98	0.18	0.3	14.305	0.769	0	0	0	12
PL.35568	PL.36250	B	6 A (CWC)	7.29Y	121.6	0.05	3.44	9.25	7	66	15	98	0.02	0.0	14.413	0.108	0	0	1	11
PL.35567	PL.35568	B	6 A (CWC)	7.29Y	121.5	0.06	3.50	9.19	7	65	15	97	0.03	0.0	14.563	0.151	6	1	1	10
PL.35566	PL.35567	B	6 A (CWC)	7.29Y	121.5	0.03	3.53	7.50	5	53	12	98	0.01	0.0	14.649	0.086	0	0	0	7
PL.36017	PL.35566	B	6 A (CWC)	7.29Y	121.5	0.00	3.53	0.78	1	6	1	99	0.00	0.0	14.735	0.086	6	1	1	1
PL.35565	PL.35566	B	6 A (CWC)	7.29Y	121.5	0.01	3.54	6.72	5	48	11	97	0.00	0.0	14.681	0.032	8	2	2	6

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35569	PL.35565	B	6 A (CWC)	7.29Y	121.4	0.02	3.55	5.55	4	39	9	97	0.01	0.0	14.768	0.087	10	2	1	4
PL.33689	PL.35569	B	6 A (CWC)	7.29Y	121.4	0.01	3.56	4.15	3	29	7	97	0.00	0.0	14.808	0.040	0	0	0	3
PL.33690	PL.33689	B	6 A (CWC)	7.29Y	121.4	0.01	3.57	4.15	3	29	7	97	0.00	0.0	14.870	0.062	0	0	0	3
PL.35564	PL.33690	B	#4 ACSR	7.28Y	121.4	0.01	3.59	4.15	3	29	7	97	0.00	0.0	14.953	0.083	13	3	2	3
PL.34225	PL.35564	B	6 A (CWC)	7.28Y	121.4	0.02	3.61	2.32	2	16	4	97	0.00	0.0	15.157	0.203	0	0	0	1
PL.34097	PL.34225	B	1/0 AL URD	7.28Y	121.4	0.00	3.61	2.32	1	16	4	97	0.00	0.0	15.254	0.097	16	4	1	1
PL.35086	PL.35567	B	#4 ACSR	7.29Y	121.5	0.00	3.50	0.87	1	6	1	99	0.00	0.0	14.595	0.032	6	1	2	2
PL.57532	PL.36250	B	#4 ACSR	7.30Y	121.6	0.00	3.40	0.68	1	5	1	98	0.00	0.0	14.444	0.140	5	1	1	1
PL.36251	PL.59991	B	6 A (CWC)	7.33Y	122.2	0.07	2.81	8.33	6	60	14	97	0.03	0.1	13.044	0.202	3	1	1	9
PL.36623	PL.36251	B	6 A (CWC)	7.33Y	122.1	0.05	2.86	7.85	6	56	13	97	0.02	0.0	13.188	0.144	0	0	0	8
PL.36624	PL.36623	B	6 A (CWC)	7.32Y	122.1	0.08	2.94	7.85	6	56	13	97	0.03	0.1	13.400	0.212	0	0	0	8
PL.37162	PL.36624	B	6 A (CWC)	7.32Y	122.0	0.07	3.01	7.85	6	56	13	97	0.03	0.1	13.595	0.195	0	0	0	8
PL.33704	PL.37162	B	6 A (CWC)	7.32Y	122.0	0.00	3.01	0.93	1	7	2	96	0.00	0.0	13.752	0.157	7	2	1	1
PL.37163	PL.37162	B	6 A (CWC)	7.32Y	122.0	0.02	3.03	6.92	5	49	12	97	0.01	0.0	13.671	0.075	0	0	0	7
PL.65318	PL.37163	B	6 A (CWC)	7.31Y	121.9	0.08	3.11	6.92	5	49	12	97	0.03	0.1	13.927	0.256	0	0	0	7
PL.65319	PL.65318	B	6 A (CWC)	7.31Y	121.8	0.05	3.16	6.92	5	49	12	97	0.02	0.0	14.081	0.154	0	0	0	7
PL.36150	PL.65319	B	6 A (CWC)	7.31Y	121.8	0.04	3.19	6.92	5	49	11	98	0.01	0.0	14.193	0.112	0	0	0	7
PL.36151	PL.36150	B	6 A (CWC)	7.31Y	121.8	0.04	3.23	6.92	5	49	11	98	0.01	0.0	14.318	0.124	0	0	0	7
PL.34219	PL.36151	B	6 A (CWC)	7.31Y	121.8	0.01	3.25	6.92	5	49	11	98	0.01	0.0	14.365	0.047	0	0	0	7
PL.35501	PL.34219	B	6 A (CWC)	7.29Y	121.5	0.28	3.52	6.92	5	49	11	98	0.10	0.2	15.246	0.882	0	0	0	7
PL.36501	PL.35501	B	6 A (CWC)	7.29Y	121.5	0.00	3.52	6.92	5	49	11	98	0.00	0.0	15.247	0.001	0	0	0	7
PD.5152	PL.36501	B	20QA	7.29Y	121.5	0.00	3.52	6.92	35	49	11	98	0.00	0.0	15.247	0.001	0	0	0	7
PL.36502	PD.5152	B	6 A (CWC)	7.29Y	121.5	0.02	3.54	6.92	5	49	11	98	0.01	0.0	15.307	0.061	0	0	0	7
PL.36499	PL.36502	B	6 A (CWC)	7.29Y	121.4	0.03	3.57	6.92	5	49	11	98	0.01	0.0	15.398	0.091	0	0	0	7
PL.36503	PL.36499	B	6 A (CWC)	7.28Y	121.4	0.02	3.59	0.97	1	7	2	96	0.00	0.0	15.753	0.355	0	0	0	1
PL.35041	PL.36503	B	6 A (CWC)	7.28Y	121.4	0.01	3.60	0.97	1	7	2	96	0.00	0.0	15.967	0.213	0	0	0	1
PL.35042	PL.35041	B	6 A (CWC)	7.28Y	121.4	0.00	3.60	0.97	1	7	2	96	0.00	0.0	16.009	0.042	7	2	1	1
PL.36500	PL.36499	B	6 A (CWC)	7.28Y	121.4	0.04	3.61	5.95	4	42	10	97	0.01	0.0	15.557	0.159	1	0	1	6
PL.36224	PL.36500	B	6 A (CWC)	7.27Y	121.2	0.17	3.78	5.82	4	41	10	97	0.05	0.1	16.189	0.631	0	0	0	5
PL.35997	PL.36224	B	6 A (CWC)	7.27Y	121.2	0.00	3.78	0.66	0	5	1	98	0.00	0.0	16.230	0.041	5	1	1	1
PL.36225	PL.36224	B	6 A (CWC)	7.27Y	121.2	0.02	3.80	5.16	4	37	8	98	0.01	0.0	16.281	0.093	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35004	PL.36225	B	6 A (CWC)	7.27Y	121.1	0.06	3.86	3.68	3	26	6	97	0.01	0.0	16.752	0.471	10	2	1	3
PL.35998	PL.35004	B	6 A (CWC)	7.27Y	121.1	0.00	3.87	1.06	1	8	2	97	0.00	0.0	16.893	0.141	8	2	1	1
PL.35047	PL.35004	B	6 A (CWC)	7.27Y	121.1	0.00	3.87	1.18	1	8	2	97	0.00	0.0	16.874	0.122	8	2	1	1
PL.35934	PL.35047	B	6 A (CWC)	7.27Y	121.1	0.00	3.87	0.00	0	0	0	100	0.00	0.0	17.175	0.301	0	0	0	0
PL.35265	PL.36225	B	#1/0 ACSR	7.27Y	121.2	0.00	3.80	1.49	1	11	2	98	0.00	0.0	16.420	0.139	11	2	1	1
PL.35015	PL.59488	B	6 A (CWC)	7.45Y	124.2	0.00	0.76	0.00	0	0	0	100	0.00	0.0	10.913	0.461	0	0	0	0
PL.57341	PL.57342	B	6 A (CWC)	7.52Y	125.3	0.00	-0.29	0.00	0	0	0	100	0.00	0.0	9.505	0.167	0	0	0	0
PD.8279-A	PL.57341	B	Open	7.52Y	125.3	0.00	-0.29	0.00	0	0	0	100	0.00	0.0	9.505	0.167	0	0	0	0
PL.59614	PL.59618	B	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	7.027	0.017	0	0	0	0
PL.35502	PL.59614	B	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	7.080	0.052	0	0	0	0
PL.35503	PL.35502	B	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	7.131	0.051	0	0	0	0
PL.57086	PL.57085	C	#1/0 ACSR	7.42Y	123.7	0.00	1.34	5.27	2	38	9	97	0.00	0.0	5.908	0.004	0	0	0	4
PD.8344	PL.57086	C	30QA	7.42Y	123.7	0.00	1.34	5.27	18	38	9	97	0.00	0.0	5.908	0.004	0	0	0	4
PL.57084	PD.8344	C	#1/0 ACSR	7.42Y	123.6	0.01	1.35	5.27	2	38	9	97	0.00	0.0	5.960	0.051	10	2	1	4
PL.57083	PL.57084	C	#4 ACSR	7.42Y	123.6	0.00	1.35	3.92	3	28	7	97	0.00	0.0	5.976	0.017	0	0	0	3
PL.34779	PL.57083	C	#4 ACSR	7.42Y	123.6	0.00	1.36	0.98	1	7	2	96	0.00	0.0	6.097	0.121	7	2	1	1
PL.57090	PL.57083	C	#4 ACSR	7.42Y	123.6	0.00	1.36	2.94	2	21	5	97	0.00	0.0	6.041	0.064	21	5	2	2
PL.57087	PL.57085	A	#1/0 ACSR	7.42Y	123.7	0.00	1.34	2.62	1	19	4	98	0.00	0.0	5.909	0.004	0	0	0	2
PD.8345	PL.57087	A	10QA	7.42Y	123.7	0.00	1.34	2.62	0	19	4	98	0.00	0.0	5.909	0.004	0	0	0	2
PL.57088	PD.8345	A	#1/0 ACSR	7.42Y	123.7	0.00	1.35	2.62	1	19	4	98	0.00	0.0	5.927	0.018	0	0	0	2
PL.57089	PL.57088	A	6 A (CWC)	7.42Y	123.7	0.00	1.35	2.62	2	19	4	98	0.00	0.0	5.969	0.042	19	4	2	2
PL.56416	PL.62548	A	#1/0 ACSR	7.42Y	123.7	0.00	1.32	5.95	3	43	10	97	0.00	0.0	5.778	0.005	0	0	0	3
PD.8343	PL.56416	A	40QA	7.42Y	123.7	0.00	1.32	5.95	15	43	10	97	0.00	0.0	5.778	0.005	0	0	0	3
PL.56417	PD.8343	A	#1/0 ACSR	7.42Y	123.7	0.00	1.32	5.95	3	43	10	97	0.00	0.0	5.797	0.019	0	0	0	3
PL.57082	PL.56417	A	#1/0 ACSR	7.42Y	123.7	0.00	1.32	0.00	0	0	0	100	0.00	0.0	6.019	0.223	0	0	0	0
PL.57080	PL.56417	A	6 A (CWC)	7.42Y	123.7	0.00	1.32	1.92	1	14	3	98	0.00	0.0	5.832	0.035	14	3	1	1
PL.57081	PL.56417	A	#1/0 ACSR	7.42Y	123.7	0.00	1.32	2.64	1	19	4	98	0.00	0.0	5.828	0.031	19	4	1	1
PL.56418	PL.56417	A	6 A (CWC)	7.42Y	123.7	0.00	1.32	1.39	1	10	2	98	0.00	0.0	5.840	0.044	10	2	1	1
PL.56412	PL.57079	C	#1/0 ACSR	7.43Y	123.8	0.00	1.19	2.07	1	15	3	98	0.00	0.0	5.186	0.011	0	0	0	2
PL.57077	PL.56412	C	#4 ACSR	7.43Y	123.8	0.00	1.19	2.07	2	15	3	98	0.00	0.0	5.190	0.004	0	0	0	2
PD.8342	PL.57077	C	10QA	7.43Y	123.8	0.00	1.19	2.07	0	15	3	98	0.00	0.0	5.190	0.004	0	0	0	2

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.57078	PD.8342	C	#4 ACSR	7.43Y	123.8	0.00	1.19	2.07	2	15	3	98	0.00	0.0	5.223	0.033	9	2	1	2
PL.57076	PL.57078	C	#4 ACSR	7.43Y	123.8	0.00	1.19	0.87	1	6	1	99	0.00	0.0	5.286	0.063	6	1	1	1
PL.57074	PL.57073	C	#1/0 ACSR	7.43Y	123.9	0.00	1.12	3.81	2	28	6	98	0.00	0.0	4.847	0.004	0	0	0	4
PD.8341	PL.57074	C	20QA	7.43Y	123.9	0.00	1.12	3.81	19	28	6	98	0.00	0.0	4.847	0.004	0	0	0	4
PL.57075	PD.8341	C	#1/0 ACSR	7.43Y	123.9	0.00	1.12	3.81	2	28	6	98	0.00	0.0	4.876	0.029	0	0	0	4
PL.57071	PL.57075	C	#2 ACSR	7.43Y	123.9	0.00	1.12	3.81	2	28	6	98	0.00	0.0	4.902	0.026	19	4	2	4
PL.51975	PL.57071	C	6 A (ACSR)	7.43Y	123.9	0.00	1.12	1.19	1	9	2	98	0.00	0.0	4.911	0.009	9	2	2	2
PL.57072	PL.57075	C	6 A (CWC)	7.43Y	123.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	4.942	0.066	0	0	0	0
PL.57064	PL.57063	A	#1/0 ACSR	7.44Y	124.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	4.565	0.006	0	0	0	0
PD.8339	PL.57064	A	10QA	7.44Y	124.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	4.565	0.006	0	0	0	0
PL.57065	PD.8339	A	#1/0 ACSR	7.44Y	124.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	4.583	0.017	0	0	0	0
PL.57221	PL.57220	A	#1/0 ACSR	7.44Y	124.1	0.00	0.93	6.14	3	45	10	98	0.00	0.0	4.101	0.005	0	0	0	9
PD.8270	PL.57221	A	25QA	7.44Y	124.1	0.00	0.93	6.14	25	45	10	98	0.00	0.0	4.101	0.005	0	0	0	9
PL.57222	PD.8270	A	#1/0 ACSR	7.44Y	124.1	0.01	0.94	6.14	3	45	10	98	0.00	0.0	4.181	0.079	0	0	0	9
PL.57219	PL.57222	A	6 A (CWC)	7.44Y	124.0	0.04	0.98	6.14	4	45	10	98	0.01	0.0	4.339	0.158	18	4	3	9
PL.57218	PL.57219	A	6 A (CWC)	7.44Y	124.0	0.01	0.98	3.69	3	27	6	98	0.00	0.0	4.376	0.037	3	1	1	6
PL.34716	PL.57218	A	6 A (CWC)	7.44Y	124.0	0.00	0.98	0.89	1	6	1	99	0.00	0.0	4.432	0.056	6	1	2	4
PL.34870	PL.34716	A	#1/0 ACSR	7.44Y	124.0	0.00	0.98	0.03	0	0	0	100	0.00	0.0	4.507	0.075	0	0	0	2
PL.34871	PL.34870	A	#1/0 ACSR	7.44Y	124.0	0.00	0.98	0.03	0	0	0	100	0.00	0.0	4.655	0.148	0	0	2	2
PL.34344	PL.34871	A	6 A (CWC)	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	4.936	0.282	0	0	0	0
PL.34345	PL.34344	A	6 A (CWC)	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	5.009	0.073	0	0	0	0
PL.34346	PL.34345	A	6 A (CWC)	7.44Y	124.0	0.00	0.98	0.00	0	0	0	100	0.00	0.0	5.154	0.144	0	0	0	0
PL.34429	PL.57218	A	6 A (CWC)	7.44Y	124.0	0.00	0.99	2.34	2	17	4	97	0.00	0.0	4.440	0.065	17	4	1	1
PL.61074	PL.57212	B	6 A (CWC)	7.45Y	124.2	0.00	0.83	1.79	1	13	3	97	0.00	0.0	3.716	0.003	0	0	0	1
PD.8901	PL.61074	B	50QA	7.45Y	124.2	0.00	0.83	1.79	4	13	3	97	0.00	0.0	3.716	0.003	0	0	0	1
PL.59941	PD.8901	B	6 A (CWC)	7.45Y	124.2	0.00	0.83	1.79	1	13	3	97	0.00	0.0	3.737	0.022	13	3	1	1
PL.57255	PL.57253	ABC	#2 ACSR	7.45Y	124.2	0.00	0.77	4.25	2	88	37	92	0.00	0.0	3.537	0.014	11	3	1	7
PL.57258	PL.57255	ABC	#2 ACSR	7.45Y	124.2	0.01	0.77	3.33	2	67	32	90	0.00	0.0	3.597	0.060	0	0	0	5
PL.57259	PL.57258	B	#2 ACSR	7.45Y	124.2	0.00	0.77	0.47	0	3	1	95	0.00	0.0	3.600	0.003	0	0	0	4
PD.8348	PL.57259	B	40QA	7.45Y	124.2	0.00	0.77	0.47	1	3	1	95	0.00	0.0	3.600	0.003	0	0	0	4
PL.57260	PD.8348	B	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.47	0	3	1	95	0.00	0.0	3.641	0.041	3	1	4	4

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.57261	PL.57258	ABC	#2 ACSR	7.45Y	124.2	0.01	0.78	3.18	2	64	31	90	0.00	0.0	3.674	0.077	0	0	0	1
PL.57262	PL.57261	ABC	#2 ACSR	7.45Y	124.2	0.00	0.79	3.18	2	64	31	90	0.00	0.0	3.767	0.093	64	31	1	1
PL.57256	PL.57255	B	#2 ACSR	7.45Y	124.2	0.00	0.77	1.24	1	9	2	98	0.00	0.0	3.540	0.002	0	0	0	1
PD.8347	PL.57256	B	40QA	7.45Y	124.2	0.00	0.77	1.24	3	9	2	98	0.00	0.0	3.540	0.002	0	0	0	1
PL.57257	PD.8347	B	#2 ACSR	7.45Y	124.2	0.00	0.77	1.24	1	9	2	98	0.00	0.0	3.580	0.041	9	2	1	1
PL.57204	PL.57201	C	6 A (CWC)	7.46Y	124.3	0.00	0.71	27.59	20	200	47	97	0.01	0.0	3.361	0.003	0	0	0	27
PD.8267	PL.57204	C	50QA	7.46Y	124.3	0.00	0.71	27.59	55	200	47	97	0.00	0.0	3.361	0.003	0	0	0	27
PL.57206	PD.8267	C	6 A (CWC)	7.45Y	124.2	0.09	0.80	27.59	20	200	47	97	0.13	0.1	3.431	0.071	0	0	0	27
PL.57203	PL.57206	C	6 A (CWC)	7.45Y	124.1	0.12	0.92	27.59	20	200	46	97	0.17	0.1	3.527	0.095	10	2	1	26
PL.35429	PL.57203	C	6 A (CWC)	7.44Y	124.0	0.04	0.95	26.16	19	190	44	97	0.05	0.0	3.559	0.033	13	3	1	25
PL.35428	PL.35429	C	6 A (CWC)	7.44Y	124.0	0.03	0.99	24.38	17	177	41	97	0.04	0.0	3.589	0.029	0	0	0	24
PL.35430	PL.35428	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	5.69	4	41	10	97	0.00	0.0	3.616	0.027	26	6	4	5
PL.35431	PL.35430	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	2.06	1	15	3	98	0.00	0.0	3.674	0.058	15	3	1	1
PL.35607	PL.35428	C	6 A (CWC)	7.44Y	124.0	0.03	1.02	18.69	13	135	31	97	0.03	0.0	3.627	0.038	7	2	1	19
PL.35427	PL.35607	C	6 A (CWC)	7.44Y	124.0	0.02	1.04	17.73	13	129	30	97	0.02	0.0	3.654	0.027	0	0	0	18
PL.34103	PL.35427	C	6 A (CWC)	7.44Y	123.9	0.02	1.06	11.63	8	84	20	97	0.01	0.0	3.701	0.047	28	7	2	12
PL.34790	PL.34103	C	6 A (CWC)	7.43Y	123.9	0.02	1.08	7.72	6	56	13	97	0.01	0.0	3.770	0.069	0	0	0	10
PL.35179	PL.34790	C	#2 ACSR	7.43Y	123.9	0.00	1.08	1.23	1	9	2	98	0.00	0.0	3.818	0.047	9	2	1	1
PL.35131	PL.34790	C	6 A (CWC)	7.43Y	123.9	0.02	1.10	6.48	5	47	11	97	0.01	0.0	3.832	0.062	0	0	0	9
PL.33657	PL.35131	C	#1/0 ACSR	7.43Y	123.9	0.00	1.10	0.00	0	0	0	100	0.00	0.0	3.930	0.098	0	0	0	0
PL.61789	PL.35131	C	6 A (CWC)	7.43Y	123.9	0.01	1.11	6.48	5	47	11	97	0.00	0.0	3.867	0.035	5	1	1	9
PL.61791	PL.61789	C	6 A (CWC)	7.43Y	123.9	0.03	1.14	5.73	4	41	10	97	0.01	0.0	3.979	0.112	2	1	1	8
PL.61792	PL.61791	C	6 A (CWC)	7.43Y	123.9	0.00	1.14	5.41	4	39	9	97	0.00	0.0	3.998	0.019	0	0	1	7
PL.61790	PL.61792	C	6 A (CWC)	7.43Y	123.8	0.01	1.15	5.41	4	39	9	97	0.00	0.0	4.030	0.033	15	4	2	6
PL.34788	PL.61790	C	#4 ACSR	7.43Y	123.8	0.00	1.15	2.53	2	18	4	98	0.00	0.0	4.061	0.031	18	4	2	2
PL.36509	PL.61790	C	6 A (CWC)	7.43Y	123.8	0.00	1.15	0.19	0	1	0	100	0.00	0.0	4.084	0.054	1	0	1	1
PL.35198	PL.61790	C	#4 ACSR	7.43Y	123.8	0.00	1.15	0.56	0	4	1	97	0.00	0.0	4.094	0.064	4	1	1	1
PL.59127	PL.35427	C	6 A (CWC)	7.44Y	124.0	0.01	1.05	6.10	4	44	10	98	0.00	0.0	3.700	0.046	24	6	3	6
PL.59126	PL.59127	C	#2 ACSR	7.44Y	124.0	0.00	1.05	1.24	1	9	2	98	0.00	0.0	3.738	0.038	9	2	2	2
PL.59184	PL.59127	C	6 A (CWC)	7.44Y	123.9	0.00	1.05	1.48	1	11	2	98	0.00	0.0	3.781	0.081	11	2	1	1
PL.57205	PL.57206	C	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.00	0	0	0	100	0.00	0.0	3.486	0.055	0	0	1	1

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Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.57199	PL.57198	ABC	#1/0 ACSR	7.46Y	124.4	0.01	0.64	29.89	13	652	152	97	0.03	0.0	3.209	0.013	0	0	0	76
PL.60606	PL.57199	ABC	#1/0 ACSR	7.46Y	124.3	0.02	0.67	29.44	13	642	150	97	0.09	0.0	3.248	0.039	0	0	0	75
PD.9049	PL.60606	ABC	50L	7.46Y	124.3	0.00	0.67	29.44	59	642	150	97	0.00	0.0	3.248	0.039	0	0	0	75
PL.60607	PD.9049	ABC	#1/0 ACSR	7.45Y	124.2	0.12	0.78	29.44	13	642	150	97	0.52	0.1	3.475	0.227	0	0	0	75
PL.33994	PL.60607	ABC	#1/0 ACSR	7.45Y	124.2	0.03	0.82	28.20	12	614	143	97	0.14	0.0	3.540	0.065	4	1	1	72
PL.72985	PL.33994	ABC	#1/0 ACSR	7.45Y	124.1	0.05	0.86	28.04	12	610	142	97	0.21	0.0	3.639	0.099	0	0	0	71
PL.72986	PL.72985	ABC	#1/0 ACSR	7.45Y	124.1	0.00	0.86	28.04	12	610	142	97	0.00	0.0	3.640	0.001	6	1	1	71
PL.61976	PL.72986	ABC	#1/0 ACSR	7.44Y	124.1	0.06	0.92	27.76	12	604	141	97	0.25	0.0	3.763	0.123	0	0	0	70
PL.61978	PL.61976	A	#1/0 ACSR	7.44Y	124.1	0.00	0.92	1.93	1	14	3	98	0.00	0.0	3.766	0.003	0	0	0	1
PD.9256	PL.61978	A	25T	7.44Y	124.1	0.00	0.92	1.93	0	14	3	98	0.00	0.0	3.766	0.003	0	0	0	1
PL.61979	PD.9256	A	#1/0 ACSR	7.44Y	124.1	0.00	0.92	1.93	1	14	3	98	0.00	0.0	3.778	0.012	14	3	1	1
PL.61977	PL.61976	ABC	#1/0 ACSR	7.44Y	124.0	0.03	0.96	27.11	12	590	137	97	0.13	0.0	3.828	0.066	0	0	0	69
PL.34673	PL.61977	ABC	#1/0 ACSR	7.44Y	124.0	0.04	0.99	25.60	11	557	129	97	0.14	0.0	3.910	0.082	0	0	0	64
PL.34534	PL.34673	B	#4 ACSR	7.44Y	124.0	0.00	0.99	2.41	2	17	4	97	0.00	0.0	3.912	0.002	0	0	0	2
PD.5204	PL.34534	B	40QA	7.44Y	124.0	0.00	0.99	2.41	6	17	4	97	0.00	0.0	3.912	0.002	0	0	0	2
PL.34535	PD.5204	B	#4 ACSR	7.44Y	124.0	0.00	0.99	2.41	2	17	4	97	0.00	0.0	3.941	0.029	17	4	2	2
PL.34674	PL.34673	ABC	#1/0 ACSR	7.44Y	124.0	0.02	1.02	24.03	10	522	121	97	0.08	0.0	3.964	0.055	0	0	0	61
PL.34536	PL.34674	B	#2 ACSR	7.44Y	124.0	0.00	1.02	1.76	1	13	3	97	0.00	0.0	3.966	0.001	0	0	0	1
PD.5689	PL.34536	B	40QA	7.44Y	124.0	0.00	1.02	1.76	4	13	3	97	0.00	0.0	3.966	0.001	0	0	0	1
PL.34537	PD.5689	B	#2 ACSR	7.44Y	124.0	0.00	1.02	1.76	1	13	3	97	0.00	0.0	3.994	0.029	13	3	1	1
PL.34675	PL.34674	ABC	#1/0 ACSR	7.44Y	124.0	0.03	1.05	23.44	10	510	118	97	0.11	0.0	4.040	0.075	0	0	0	60
PL.37073	PL.34675	B	#1/0 ACSR	7.44Y	124.0	0.00	1.05	6.11	3	44	10	98	0.00	0.0	4.041	0.001	0	0	0	5
PD.5100	PL.37073	B	40QA	7.44Y	124.0	0.00	1.05	6.11	15	44	10	98	0.00	0.0	4.041	0.001	0	0	0	5
PL.37074	PD.5100	B	#1/0 ACSR	7.44Y	123.9	0.01	1.05	6.11	3	44	10	98	0.00	0.0	4.084	0.043	0	0	0	5
PL.34452	PL.37074	B	#1/0 ACSR	7.44Y	123.9	0.00	1.05	0.00	0	0	0	100	0.00	0.0	4.113	0.029	0	0	0	0
PL.34789	PL.37074	B	#1/0 ACSR	7.44Y	123.9	0.00	1.06	6.11	3	44	10	98	0.00	0.0	4.110	0.026	22	5	3	5
PL.34039	PL.34789	B	#4 ACSR	7.44Y	123.9	0.00	1.06	1.27	1	9	2	98	0.00	0.0	4.159	0.049	9	2	1	1
PL.36143	PL.34789	B	#1/0 ACSR	7.44Y	123.9	0.00	1.06	1.80	1	13	3	97	0.00	0.0	4.198	0.088	13	3	1	1
PL.35255	PL.34675	C	#2 ACSR	7.44Y	124.0	0.00	1.05	1.25	1	9	2	98	0.00	0.0	4.074	0.034	9	2	1	1
PL.36322	PL.34675	ABC	#1/0 ACSR	7.44Y	123.9	0.02	1.06	20.99	9	456	106	97	0.05	0.0	4.084	0.044	0	0	0	54
PL.36323	PL.36322	ABC	#1/0 ACSR	7.44Y	123.9	0.01	1.07	18.98	8	412	96	97	0.02	0.0	4.109	0.026	0	0	0	50

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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34002	PL.36323	ABC	#1/0 ACSR	7.43Y	123.9	0.02	1.09	17.67	8	384	89	97	0.04	0.0	4.163	0.053	11	3	1	48
PL.35655	PL.34002	ABC	#1/0 ACSR	7.43Y	123.9	0.01	1.09	12.37	5	269	62	97	0.01	0.0	4.194	0.031	0	0	0	35
PL.34975	PL.35655	C	#2 ACSR	7.43Y	123.9	0.00	1.09	1.08	1	8	2	97	0.00	0.0	4.195	0.001	0	0	0	1
PD.5737	PL.34975	C	40QA	7.43Y	123.9	0.00	1.09	1.08	3	8	2	97	0.00	0.0	4.195	0.001	0	0	0	1
PL.34976	PD.5737	C	#2 ACSR	7.43Y	123.9	0.00	1.10	1.08	1	8	2	97	0.00	0.0	4.229	0.034	8	2	1	1
PL.52349	PL.35655	ABC	#1/0 ACSR	7.43Y	123.9	0.01	1.10	12.01	5	261	60	97	0.01	0.0	4.228	0.034	16	4	2	34
PL.52350	PL.52349	ABC	#1/0 ACSR	7.43Y	123.9	0.02	1.12	11.30	5	245	57	97	0.03	0.0	4.310	0.082	16	4	2	32
PL.36446	PL.52350	B	#4 ACSR	7.43Y	123.9	0.00	1.12	13.57	10	98	23	97	0.00	0.0	4.310	0.000	0	0	0	14
PD.5173	PL.36446	B	40QA	7.43Y	123.9	0.00	1.12	13.57	34	98	23	97	0.00	0.0	4.310	0.000	0	0	0	14
PL.36447	PD.5173	B	#4 ACSR	7.43Y	123.8	0.11	1.23	13.57	10	98	23	97	0.08	0.1	4.509	0.198	16	4	2	14
PL.36689	PL.36447	B	#4 ACSR	7.42Y	123.7	0.03	1.26	11.37	9	82	19	97	0.02	0.0	4.571	0.062	1	0	1	12
PL.36690	PL.36689	B	#4 ACSR	7.42Y	123.7	0.02	1.28	11.28	9	82	19	97	0.01	0.0	4.615	0.044	33	8	3	11
PL.36688	PL.36690	B	6 A (CWC)	7.42Y	123.7	0.03	1.31	6.75	5	49	11	98	0.01	0.0	4.726	0.111	3	1	1	8
PL.35176	PL.36688	B	#4 ACSR	7.42Y	123.7	0.03	1.34	6.28	5	45	11	97	0.01	0.0	4.838	0.112	0	0	1	7
PL.33331	PL.35176	B	6 A (CWC)	7.42Y	123.7	0.01	1.35	2.33	2	17	4	97	0.00	0.0	4.979	0.141	17	4	3	3
PL.36384	PL.35176	B	#4 ACSR	7.42Y	123.6	0.01	1.35	3.95	3	29	7	97	0.00	0.0	4.922	0.084	0	0	0	3
PL.34520	PL.36384	B	#4 ACSR	7.42Y	123.6	0.00	1.35	1.31	1	9	2	98	0.00	0.0	4.957	0.034	9	2	1	1
PL.36385	PL.36384	B	#4 ACSR	7.42Y	123.6	0.01	1.36	2.64	2	19	4	98	0.00	0.0	5.043	0.121	9	2	1	2
PL.33412	PL.36385	B	#4 ACSR	7.42Y	123.6	0.01	1.37	1.39	1	10	2	98	0.00	0.0	5.208	0.165	10	2	1	1
PL.36448	PL.52350	B	#4 ACSR	7.43Y	123.9	0.00	1.12	18.13	14	131	30	97	0.00	0.0	4.310	0.001	0	0	0	16
PD.5207	PL.36448	B	30T	7.43Y	123.9	0.00	1.12	18.13	0	131	30	97	0.00	0.0	4.310	0.001	0	0	0	16
PL.36449	PD.5207	B	#4 ACSR	7.43Y	123.9	0.02	1.13	18.13	14	131	30	97	0.02	0.0	4.331	0.021	8	2	1	16
PL.35656	PL.36449	B	#4 ACSR	7.43Y	123.8	0.05	1.18	16.98	13	123	28	98	0.04	0.0	4.397	0.066	16	4	2	15
PL.35092	PL.35656	B	#4 ACSR	7.43Y	123.8	0.02	1.20	6.70	5	49	11	98	0.01	0.0	4.477	0.081	0	0	0	5
PL.35090	PL.35092	B	#2 ACSR	7.43Y	123.8	0.00	1.20	1.19	1	9	2	98	0.00	0.0	4.546	0.069	9	2	1	1
PL.35091	PL.35090	B	#2 ACSR	7.43Y	123.8	0.00	1.20	0.00	0	0	0	100	0.00	0.0	4.584	0.038	0	0	0	0
PL.35093	PL.35092	B	#4 ACSR	7.43Y	123.8	0.00	1.21	5.51	4	40	9	98	0.00	0.0	4.492	0.014	23	5	2	4
PL.34371	PL.35093	B	#4 ACSR	7.43Y	123.8	0.00	1.21	2.36	2	17	4	97	0.00	0.0	4.555	0.063	13	3	1	2
PL.34372	PL.34371	B	#4 ACSR	7.43Y	123.8	0.00	1.21	0.58	0	4	1	97	0.00	0.0	4.632	0.078	4	1	1	1
PL.36141	PL.35656	B	#4 ACSR	7.43Y	123.8	0.02	1.20	5.58	4	40	9	98	0.01	0.0	4.513	0.117	16	4	2	4
PL.36142	PL.36141	B	#4 ACSR	7.43Y	123.8	0.00	1.21	2.55	2	18	4	98	0.00	0.0	4.555	0.041	18	4	1	1

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34760	PL.36141	B	#4 ACSR	7.43Y	123.8	0.00	1.20	0.79	1	6	1	99	0.00	0.0	4.613	0.099	6	1	1	1
PL.35657	PL.35656	B	#4 ACSR	7.43Y	123.8	0.00	1.18	2.42	2	18	4	98	0.00	0.0	4.413	0.016	1	0	1	4
PL.33758	PL.35657	B	#4 ACSR	7.43Y	123.8	0.01	1.19	2.32	2	17	4	97	0.00	0.0	4.505	0.093	8	2	1	3
PL.36386	PL.33758	B	#4 ACSR	7.43Y	123.8	0.00	1.19	1.21	1	9	2	98	0.00	0.0	4.563	0.058	6	1	1	2
PL.36387	PL.36386	B	#4 ACSR	7.43Y	123.8	0.00	1.19	0.38	0	3	1	95	0.00	0.0	4.624	0.060	3	1	1	1
PL.34636	PL.35655	A	#2 ACSR	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	4.195	0.001	0	0	0	0
PD.5205	PL.34636	A	40QA	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	4.195	0.001	0	0	0	0
PL.34637	PD.5205	A	#2 ACSR	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	4.246	0.051	0	0	0	0
PL.34499	PL.34002	B	#4 ACSR	7.43Y	123.9	0.00	1.09	14.36	11	104	24	97	0.00	0.0	4.164	0.002	0	0	0	12
PD.5206	PL.34499	B	40QA	7.43Y	123.9	0.00	1.09	14.36	36	104	24	97	0.00	0.0	4.164	0.002	0	0	0	12
PL.36516	PD.5206	B	#4 ACSR	7.43Y	123.9	0.04	1.13	14.36	11	104	24	97	0.03	0.0	4.229	0.065	11	2	2	12
PL.35605	PL.36516	B	#4 ACSR	7.43Y	123.8	0.02	1.15	12.87	10	93	22	97	0.02	0.0	4.276	0.047	14	3	1	10
PL.35604	PL.35605	B	#4 ACSR	7.43Y	123.8	0.02	1.18	10.08	8	73	17	97	0.01	0.0	4.330	0.054	0	0	0	8
PL.35299	PL.35604	B	#4 ACSR	7.43Y	123.8	0.01	1.19	10.08	8	73	17	97	0.01	0.0	4.365	0.035	16	4	2	8
PL.35606	PL.35299	B	#4 ACSR	7.43Y	123.8	0.03	1.22	7.89	6	57	13	97	0.01	0.0	4.443	0.078	0	0	0	6
PL.34373	PL.35606	B	#4 ACSR	7.43Y	123.8	0.01	1.23	6.21	5	45	10	98	0.00	0.0	4.495	0.052	8	2	1	5
PL.36382	PL.34373	B	#4 ACSR	7.43Y	123.8	0.01	1.24	5.05	4	37	8	98	0.00	0.0	4.577	0.082	25	6	2	4
PL.34350	PL.36382	B	#1/0 ACSR	7.43Y	123.8	0.00	1.24	0.00	0	0	0	100	0.00	0.0	4.606	0.030	0	0	0	0
PL.36383	PL.36382	B	#4 ACSR	7.43Y	123.8	0.00	1.24	1.58	1	11	3	96	0.00	0.0	4.625	0.049	11	3	2	2
PL.37142	PL.35606	B	#4 ACSR	7.43Y	123.8	0.01	1.22	1.68	1	12	3	97	0.00	0.0	4.521	0.078	0	0	0	1
PL.61986	PL.37142	B	#4 ACSR	7.43Y	123.8	0.01	1.23	1.68	1	12	3	97	0.00	0.0	4.673	0.152	12	3	1	1
PL.34889	PL.37142	B	#4 ACSR	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	4.579	0.058	0	0	0	0
PL.52376	PL.35605	B	#4 ACSR	7.43Y	123.8	0.00	1.15	0.85	1	6	1	99	0.00	0.0	4.312	0.037	6	1	1	1
PL.33995	PL.36323	B	#2 ACSR	7.44Y	123.9	0.00	1.07	3.94	2	29	7	97	0.00	0.0	4.110	0.001	0	0	0	2
PD.5099	PL.33995	B	40QA	7.44Y	123.9	0.00	1.07	3.94	10	29	7	97	0.00	0.0	4.110	0.001	0	0	0	2
PL.36515	PD.5099	B	#2 ACSR	7.44Y	123.9	0.00	1.08	3.94	2	29	7	97	0.00	0.0	4.166	0.056	29	7	2	2
PL.36324	PL.36322	B	#2 ACSR	7.44Y	123.9	0.00	1.06	6.02	3	44	10	98	0.00	0.0	4.084	0.001	0	0	0	4
PD.5738	PL.36324	B	40QA	7.44Y	123.9	0.00	1.06	6.02	15	44	10	98	0.00	0.0	4.084	0.001	0	0	0	4
PL.36325	PD.5738	B	#2 ACSR	7.44Y	123.9	0.00	1.07	6.02	3	44	10	98	0.00	0.0	4.130	0.045	44	10	4	4
PL.35268	PL.34673	B	#4 ACSR	7.44Y	124.0	0.00	0.99	2.30	2	17	4	97	0.00	0.0	3.911	0.001	0	0	0	1
PD.5101	PL.35268	B	40QA	7.44Y	124.0	0.00	0.99	2.30	6	17	4	97	0.00	0.0	3.911	0.001	0	0	0	1

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34532	PD.5101	B	#4 ACSR	7.44Y	124.0	0.00	1.00	2.30	2	17	4	97	0.00	0.0	3.959	0.047	17	4	1	1
PL.34679	PL.61977	B	#4 ACSR	7.44Y	124.0	0.00	0.96	0.59	0	4	1	97	0.00	0.0	3.829	0.000	0	0	0	1
PD.5776	PL.34679	B	40QA	7.44Y	124.0	0.00	0.96	0.59	1	4	1	97	0.00	0.0	3.829	0.000	0	0	0	1
PL.34680	PD.5776	B	#4 ACSR	7.44Y	124.0	0.00	0.96	0.59	0	4	1	97	0.00	0.0	3.843	0.014	4	1	1	1
PL.34620	PL.61977	B	#4 ACSR	7.44Y	124.0	0.00	0.96	3.96	3	29	7	97	0.00	0.0	3.829	0.000	0	0	0	4
PD.5796	PL.34620	B	40QA	7.44Y	124.0	0.00	0.96	3.96	10	29	7	97	0.00	0.0	3.829	0.000	0	0	0	4
PL.34621	PD.5796	B	#4 ACSR	7.44Y	124.0	0.00	0.96	3.96	3	29	7	97	0.00	0.0	3.836	0.007	0	0	0	4
PL.34676	PL.34621	B	#4 ACSR	7.44Y	124.0	0.01	0.97	3.96	3	29	7	97	0.00	0.0	3.934	0.098	8	2	1	4
PL.34878	PL.34676	B	#4 ACSR	7.44Y	124.0	0.01	0.98	2.84	2	21	5	97	0.00	0.0	4.015	0.081	10	2	2	3
PL.34879	PL.34878	B	#4 ACSR	7.44Y	124.0	0.00	0.98	1.47	1	11	2	98	0.00	0.0	4.082	0.066	11	2	1	1
PL.36555	PL.60607	B	#2 ACSR	7.45Y	124.2	0.00	0.79	3.72	2	27	6	98	0.00	0.0	3.521	0.045	21	5	2	3
PL.36556	PL.36555	B	#2 ACSR	7.45Y	124.2	0.00	0.79	0.81	0	6	1	99	0.00	0.0	3.606	0.086	6	1	1	1
PL.57195	PL.57199	C	#4 ACSR	7.46Y	124.4	0.00	0.64	1.34	1	10	2	98	0.00	0.0	3.212	0.003	0	0	0	1
PD.8266	PL.57195	C	40QA	7.46Y	124.4	0.00	0.64	1.34	3	10	2	98	0.00	0.0	3.212	0.003	0	0	0	1
PL.57196	PD.8266	C	#4 ACSR	7.46Y	124.4	0.00	0.65	1.34	1	10	2	98	0.00	0.0	3.234	0.022	10	2	1	1
PL.57194	PL.57196	C	#4 ACSR	7.46Y	124.4	0.00	0.65	0.00	0	0	0	100	0.00	0.0	3.290	0.056	0	0	0	0
PL.52168	PL.52167	C	#2 ACSR	7.47Y	124.6	0.00	0.43	1.40	1	10	2	98	0.00	0.0	3.061	0.001	0	0	0	1
PD.8031	PL.52168	C	10QA	7.47Y	124.6	0.00	0.43	1.40	0	10	2	98	0.00	0.0	3.061	0.001	0	0	0	1
PL.54953	PD.8031	C	#2 ACSR	7.47Y	124.6	0.00	0.43	1.40	1	10	2	98	0.00	0.0	3.086	0.025	10	2	1	1
CP.54	PL.35164	ABC	Cap (300)	7.48Y	124.6	0.00	0.37	0.00	0	0	0	100	0.00	0.0	3.037	0.025	0	0	0	0
PL.35259	PL.36676	ABC	636 SPACER	7.49Y	124.8	0.00	0.20	2.10	0	42	21	89	0.00	0.0	2.965	0.001	0	0	0	1
PD.5149	PL.35259	ABC	75QA	7.49Y	124.8	0.00	0.20	2.10	3	42	21	89	0.00	0.0	2.965	0.001	0	0	0	1
PL.35260	PD.5149	ABC	#1/0 ACSR	7.49Y	124.8	0.00	0.20	2.10	1	42	21	89	0.00	0.0	3.034	0.069	42	21	1	1
PL.36215	REG45	C	#2 ACSR	7.52Y	125.3	0.00	-0.27	0.72	0	5	1	98	0.00	0.0	2.767	0.001	0	0	0	1
PD.5708	PL.36215	C	40QA	7.52Y	125.3	0.00	-0.27	0.72	2	5	1	98	0.00	0.0	2.767	0.001	0	0	0	1
PL.36216	PD.5708	C	#2 ACSR	7.52Y	125.3	0.00	-0.27	0.72	0	5	1	98	0.00	0.0	2.803	0.036	5	1	1	1
PL.35906	PL.57638	C	6 A (CWC)	7.10Y	118.4	0.00	6.59	6.17	4	43	10	97	0.00	0.0	2.695	0.001	0	0	0	4
PD.5773	PL.35906	C	75QA	7.10Y	118.4	0.00	6.59	6.17	8	43	10	97	0.00	0.0	2.695	0.001	0	0	0	4
PL.35907	PD.5773	C	6 A (CWC)	7.10Y	118.4	0.01	6.59	6.17	4	43	10	97	0.00	0.0	2.740	0.045	43	10	4	4
PL.57640	PL.57686	A	6 A (CWC)	7.12Y	118.6	0.00	6.42	6.12	4	42	10	97	0.00	0.0	2.631	0.002	0	0	0	3
PD.8393	PL.57640	A	75QA	7.12Y	118.6	0.00	6.42	6.12	8	42	10	97	0.00	0.0	2.631	0.002	0	0	0	3

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.57641	PD.8393	A	6 A (CWC)	7.11Y	118.6	0.00	6.42	6.12	4	42	10	97	0.00	0.0	2.654	0.023	30	7	2	3
PL.57639	PL.57641	A	6 A (CWC)	7.11Y	118.6	0.00	6.42	1.86	1	13	3	97	0.00	0.0	2.728	0.074	13	3	1	1
PL.54097	PL.54094	A	6 A (CWC)	7.13Y	118.8	0.00	6.21	10.77	8	75	17	98	0.00	0.0	2.551	0.000	0	0	0	8
PD.8119	PL.54097	A	20T	7.13Y	118.8	0.00	6.21	10.77	0	75	17	98	0.00	0.0	2.551	0.000	0	0	0	8
PL.54098	PD.8119	A	6 A (CWC)	7.13Y	118.8	0.01	6.22	7.72	6	54	12	98	0.01	0.0	2.595	0.045	7	2	1	5
PL.54096	PL.54098	A	6 A (CWC)	7.13Y	118.8	0.01	6.23	6.67	5	46	11	97	0.00	0.0	2.630	0.035	34	8	3	4
PL.36496	PL.54096	A	6 A (CWC)	7.13Y	118.8	0.00	6.23	1.75	1	12	3	97	0.00	0.0	2.660	0.030	12	3	1	1
PL.54099	PD.8119	A	#2 ACSR	7.13Y	118.8	0.00	6.21	3.05	2	21	5	97	0.00	0.0	2.568	0.018	11	3	2	3
PL.54095	PL.54099	A	#2 ACSR	7.13Y	118.8	0.00	6.21	1.42	1	10	2	98	0.00	0.0	2.600	0.032	10	2	1	1
PL.35750	PL.35759	C	6 A (CWC)	7.14Y	119.1	0.00	5.92	1.54	1	11	2	98	0.00	0.0	2.445	0.001	0	0	0	1
PD.5795	PL.35750	C	75QA	7.14Y	119.1	0.00	5.92	1.54	2	11	2	98	0.00	0.0	2.445	0.001	0	0	0	1
PL.35751	PD.5795	C	6 A (CWC)	7.14Y	119.1	0.00	5.92	1.54	1	11	2	98	0.00	0.0	2.508	0.063	11	2	1	1
PL.34926	PL.35759	ABC	6 A (CWC)	7.14Y	119.1	0.00	5.92	0.00	0	0	0	100	0.00	0.0	2.467	0.024	0	0	0	0
PL.35752	PL.35759	A	6 A (CWC)	7.14Y	119.1	0.00	5.92	3.57	3	25	6	97	0.00	0.0	2.445	0.001	0	0	0	3
PD.5757	PL.35752	A	75QA	7.14Y	119.1	0.00	5.92	3.57	5	25	6	97	0.00	0.0	2.445	0.001	0	0	0	3
PL.35753	PD.5757	A	6 A (CWC)	7.14Y	119.1	0.00	5.93	3.57	3	25	6	97	0.00	0.0	2.472	0.027	0	0	0	3
PL.52169	PL.35753	A	6 A (CWC)	7.14Y	119.1	0.00	5.93	3.57	3	25	6	97	0.00	0.0	2.491	0.019	25	6	3	3
PL.33825	PL.35758	C	#4 ACSR	7.16Y	119.4	0.00	5.64	5.10	4	36	8	98	0.00	0.0	2.343	0.001	0	0	0	4
PD.5117	PL.33825	C	75QA	7.16Y	119.4	0.00	5.64	5.10	7	36	8	98	0.00	0.0	2.343	0.001	0	0	0	4
PL.35978	PD.5117	C	#4 ACSR	7.16Y	119.4	0.00	5.65	5.10	4	36	8	98	0.00	0.0	2.363	0.020	26	6	3	4
PL.35757	PL.35978	C	#4 ACSR	7.16Y	119.4	0.00	5.65	1.35	1	9	2	98	0.00	0.0	2.415	0.052	9	2	1	1
PL.33858	PL.35760	C	6 A (CWC)	7.19Y	119.9	0.00	5.12	4.53	3	32	7	98	0.00	0.0	2.158	0.002	0	0	0	5
PD.5116	PL.33858	C	75QA	7.19Y	119.9	0.00	5.12	4.53	6	32	7	98	0.00	0.0	2.158	0.002	0	0	0	5
PL.33859	PD.5116	C	6 A (CWC)	7.19Y	119.8	0.04	5.16	4.53	3	32	7	98	0.01	0.0	2.344	0.187	1	0	1	5
PL.33552	PL.33859	C	6 A (CWC)	7.19Y	119.8	0.00	5.16	1.83	1	13	3	97	0.00	0.0	2.391	0.047	13	3	1	1
PL.35754	PL.33859	C	6 A (CWC)	7.19Y	119.8	0.01	5.17	2.54	2	18	4	98	0.00	0.0	2.443	0.099	8	2	1	3
PL.35755	PL.35754	C	6 A (CWC)	7.19Y	119.8	0.00	5.17	1.34	1	9	2	98	0.00	0.0	2.468	0.025	0	0	0	2
PL.36465	PL.35755	C	6 A (CWC)	7.19Y	119.8	0.00	5.17	1.34	1	9	2	98	0.00	0.0	2.537	0.070	0	0	0	2
PL.36466	PL.36465	C	6 A (CWC)	7.19Y	119.8	0.01	5.18	1.34	1	9	2	98	0.00	0.0	2.638	0.101	0	0	0	2
PL.36467	PL.36466	C	6 A (CWC)	7.19Y	119.8	0.00	5.18	1.34	1	9	2	98	0.00	0.0	2.661	0.023	1	0	1	2
PL.36468	PL.36467	C	6 A (CWC)	7.19Y	119.8	0.00	5.18	1.26	1	9	2	98	0.00	0.0	2.706	0.045	9	2	1	1

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.33973	PL.35760	ABC	#2 ACSR	7.19Y	119.9	0.00	5.12	0.42	0	9	2	98	0.00	0.0	2.158	0.002	0	0	0	2
PD.5179	PL.33973	ABC	25QA	7.19Y	119.9	0.00	5.12	0.42	2	9	2	98	0.00	0.0	2.158	0.002	0	0	0	2
PL.33857	PD.5179	ABC	#2 ACSR	7.19Y	119.9	0.00	5.12	0.42	0	9	2	98	0.00	0.0	2.184	0.026	9	2	1	2
PL.35763	PL.33857	ABC	#2 ACSR	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	2.215	0.031	0	0	1	1
PL.35764	PL.35763	ABC	#2 ACSR	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	2.316	0.101	0	0	0	0
PL.34649	PL.35763	A	#2 ACSR	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	2.216	0.001	0	0	0	0
PD.5178	PL.34649	A	40QA	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	2.216	0.001	0	0	0	0
PL.35845	PD.5178	A	#2 ACSR	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	2.254	0.038	0	0	0	0
PL.33968	PL.33966	A	#4 ACSR	7.21Y	120.2	0.00	4.80	1.71	1	12	3	97	0.00	0.0	2.043	0.001	0	0	0	1
PD.5027	PL.33968	A	75QA	7.21Y	120.2	0.00	4.80	1.71	2	12	3	97	0.00	0.0	2.043	0.001	0	0	0	1
PL.52172	PD.5027	A	#4 ACSR	7.21Y	120.2	0.00	4.80	1.71	1	12	3	97	0.00	0.0	2.104	0.061	12	3	1	1
PL.35080	PL.33966	ABC	#4 ACSR	7.21Y	120.2	0.00	4.80	1.60	1	34	8	97	0.00	0.0	2.069	0.026	25	6	3	4
PL.33864	PL.35080	ABC	#4 ACSR	7.21Y	120.2	0.00	4.80	0.43	0	9	2	98	0.00	0.0	2.099	0.030	9	2	1	1
PL.36558	PL.52173	C	6 A (CWC)	7.23Y	120.4	0.00	4.58	11.21	8	79	18	98	0.00	0.0	1.970	0.001	0	0	0	9
PD.5756	PL.36558	C	75QA	7.23Y	120.4	0.00	4.58	11.21	15	79	18	98	0.00	0.0	1.970	0.001	0	0	0	9
PL.52533	PD.5756	C	6 A (CWC)	7.22Y	120.4	0.03	4.61	11.21	8	79	18	98	0.02	0.0	2.044	0.074	31	7	3	9
PL.52534	PL.52533	C	6 A (CWC)	7.22Y	120.4	0.01	4.62	6.87	5	48	11	97	0.00	0.0	2.102	0.058	19	4	3	6
PL.52535	PL.52534	C	6 A (CWC)	7.22Y	120.4	0.01	4.63	4.21	3	30	7	97	0.00	0.0	2.173	0.071	25	6	2	3
PL.52536	PL.52535	C	6 A (CWC)	7.22Y	120.4	0.00	4.63	0.59	0	4	1	97	0.00	0.0	2.202	0.029	4	1	1	1
PL.36409	PL.52173	A	#4 ACSR	7.23Y	120.4	0.00	4.58	2.35	2	17	4	97	0.00	0.0	1.970	0.001	0	0	0	2
PD.5026	PL.36409	A	75QA	7.23Y	120.4	0.00	4.58	2.35	3	17	4	97	0.00	0.0	1.970	0.001	0	0	0	2
PL.36410	PD.5026	A	#4 ACSR	7.23Y	120.4	0.00	4.58	2.35	2	17	4	97	0.00	0.0	2.017	0.047	9	2	1	2
PL.36557	PL.36410	A	#4 ACSR	7.22Y	120.4	0.00	4.58	1.06	1	7	2	96	0.00	0.0	2.095	0.077	7	2	1	1
PL.52176	PL.52174	A	6 A (CWC)	7.24Y	120.6	0.00	4.36	2.67	2	19	4	98	0.00	0.0	1.900	0.002	0	0	0	3
PD.5794	PL.52176	A	75QA	7.24Y	120.6	0.00	4.36	2.67	4	19	4	98	0.00	0.0	1.900	0.002	0	0	0	3
PL.52469	PD.5794	A	6 A (CWC)	7.24Y	120.6	0.00	4.37	2.67	2	19	4	98	0.00	0.0	1.949	0.049	7	2	1	3
PL.52470	PL.52469	A	6 A (CWC)	7.24Y	120.6	0.00	4.37	1.75	1	12	3	97	0.00	0.0	2.021	0.072	12	3	2	2
PL.36512	PL.52724	ABC	336 MCM AC	7.28Y	121.3	0.01	3.73	18.60	4	394	99	97	0.02	0.0	1.740	0.052	0	0	0	54
PL.36513	PL.36512	ABC	336 MCM AC	7.28Y	121.3	0.00	3.73	18.60	4	394	99	97	0.01	0.0	1.763	0.023	0	0	0	54
PL.35382	PL.36513	C	#4 ACSR	7.28Y	121.3	0.00	3.73	2.39	2	17	4	97	0.00	0.0	1.763	0.000	0	0	0	2
PD.5249	PL.35382	C	75QA	7.28Y	121.3	0.00	3.73	2.39	3	17	4	97	0.00	0.0	1.763	0.000	0	0	0	2

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35383	PD.5249	C	#4 ACSR	7.28Y	121.3	0.00	3.74	2.39	2	17	4	97	0.00	0.0	1.812	0.049	17	4	2	2
PL.34588	PL.36513	ABC	336 MCM AC	7.28Y	121.3	0.01	3.74	17.80	3	377	95	97	0.01	0.0	1.805	0.042	0	0	1	52
PL.34996	PL.34588	ABC	336 MCM AC	7.27Y	121.2	0.01	3.75	17.18	3	363	92	97	0.02	0.0	1.900	0.095	0	0	0	48
PL.34154	PL.34996	ABC	6 A (CWC)	7.27Y	121.2	0.00	3.75	1.52	1	30	14	91	0.00	0.0	1.909	0.009	30	14	1	1
PL.35888	PL.34996	ABC	336 MCM AC	7.27Y	121.2	0.01	3.76	15.69	3	334	78	97	0.01	0.0	1.963	0.063	0	0	0	47
PL.35889	PL.35888	ABC	336 MCM AC	7.27Y	121.2	0.00	3.76	14.87	3	316	74	97	0.01	0.0	1.999	0.036	0	0	0	44
PL.34891	PL.35889	A	#2 ACSR	7.27Y	121.2	0.00	3.76	2.46	1	17	4	97	0.00	0.0	2.057	0.058	17	4	6	6
PL.35893	PL.35889	ABC	336 MCM AC	7.27Y	121.2	0.00	3.76	14.05	3	299	69	97	0.00	0.0	2.000	0.002	0	0	0	38
PD.5791	PL.35893	ABC	70L	7.27Y	121.2	0.00	3.76	14.05	20	299	69	97	0.00	0.0	2.000	0.002	0	0	0	38
PL.35894	PD.5791	ABC	336 MCM AC	7.27Y	121.2	0.04	3.80	14.05	3	299	69	97	0.06	0.0	2.389	0.389	0	0	0	38
PL.52471	PL.35894	ABC	#2 ACSR	7.27Y	121.2	0.00	3.80	0.11	0	2	1	89	0.00	0.0	2.480	0.091	2	1	2	2
PL.52472	PL.35894	ABC	336 MCM AC	7.27Y	121.2	0.01	3.81	13.94	3	296	69	97	0.02	0.0	2.530	0.140	0	0	0	36
PL.52473	PL.52472	C	#1/0 ACSR	7.27Y	121.2	0.00	3.82	1.33	1	9	2	98	0.00	0.0	2.532	0.002	0	0	0	2
PD.8033	PL.52473	C	10QA	7.27Y	121.2	0.00	3.82	1.33	0	9	2	98	0.00	0.0	2.532	0.002	0	0	0	2
PL.52474	PD.8033	C	#1/0 ACSR	7.27Y	121.2	0.00	3.82	1.33	1	9	2	98	0.00	0.0	2.585	0.053	9	2	2	2
PL.62049	PL.52472	ABC	336 MCM AC	7.27Y	121.2	0.02	3.83	13.50	3	287	67	97	0.03	0.0	2.695	0.166	0	0	0	34
PL.62051	PL.62049	C	#1/0 ACSR	7.27Y	121.2	0.00	3.83	1.92	1	14	3	98	0.00	0.0	2.744	0.049	14	3	1	1
PL.62050	PL.62049	ABC	336 MCM AC	7.27Y	121.2	0.00	3.83	12.86	2	273	63	97	0.01	0.0	2.736	0.041	0	0	0	33
PL.52373	PL.62050	ABC	336 MCM AC	7.27Y	121.2	0.00	3.84	12.01	2	255	59	97	0.00	0.0	2.754	0.018	8	2	1	31
PL.53444	PL.52373	ABC	336 MCM AC	7.27Y	121.2	0.00	3.84	11.63	2	247	57	97	0.00	0.0	2.786	0.032	7	2	1	30
PL.53445	PL.53444	ABC	336 MCM AC	7.27Y	121.2	0.00	3.84	11.32	2	241	56	97	0.00	0.0	2.832	0.046	0	0	0	29
PL.59911	PL.53445	ABC	336 MCM AC	7.27Y	121.2	0.00	3.85	11.32	2	241	56	97	0.01	0.0	2.887	0.054	15	3	2	29
PL.59912	PL.59911	ABC	336 MCM AC	7.27Y	121.2	0.00	3.85	10.63	2	226	52	97	0.00	0.0	2.935	0.049	0	0	0	27
PL.52371	PL.59912	B	#1/0 ACSR	7.27Y	121.1	0.00	3.85	0.90	0	6	1	99	0.00	0.0	2.938	0.003	0	0	0	1
PD.8038	PL.52371	B	30QA	7.27Y	121.1	0.00	3.85	0.90	3	6	1	99	0.00	0.0	2.938	0.003	0	0	0	1
PL.52372	PD.8038	B	#1/0 ACSR	7.27Y	121.1	0.00	3.85	0.90	0	6	1	99	0.00	0.0	2.967	0.028	6	1	1	1
PL.35128	PL.59912	ABC	336 MCM AC	7.27Y	121.1	0.00	3.85	9.74	2	207	48	97	0.00	0.0	2.969	0.034	0	0	0	24
PL.34312	PL.35128	B	6 A (CWC)	7.27Y	121.1	0.00	3.85	0.66	0	5	1	98	0.00	0.0	2.970	0.001	0	0	0	2
PD.5102	PL.34312	B	40QA	7.27Y	121.1	0.00	3.85	0.66	2	5	1	98	0.00	0.0	2.970	0.001	0	0	0	2
PL.34313	PD.5102	B	6 A (CWC)	7.27Y	121.1	0.00	3.85	0.66	0	5	1	98	0.00	0.0	3.017	0.048	5	1	2	2
PL.33885	PL.35128	B	6 A (CWC)	7.27Y	121.1	0.00	3.85	4.51	3	32	7	98	0.00	0.0	2.970	0.001	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.5825	PL.33885	B	40QA	7.27Y	121.1	0.00	3.85	4.51	11	32	7	98	0.00	0.0	2.970	0.001	0	0	0	2
PL.33886	PD.5825	B	6 A (CWC)	7.27Y	121.1	0.01	3.86	4.51	3	32	7	98	0.00	0.0	3.022	0.052	24	6	1	2
PL.34162	PL.33886	B	6 A (CWC)	7.27Y	121.1	0.00	3.86	1.11	1	8	2	97	0.00	0.0	3.102	0.080	8	2	1	1
PL.36145	PL.35128	ABC	336 MCM AC	7.27Y	121.1	0.01	3.86	8.02	2	170	39	97	0.00	0.0	3.061	0.092	0	0	0	20
PL.36661	PL.36145	B	#2 ACSR	7.27Y	121.1	0.00	3.86	1.10	1	8	2	97	0.00	0.0	3.061	0.000	0	0	0	1
PD.5263	PL.36661	B	40QA	7.27Y	121.1	0.00	3.86	1.10	3	8	2	97	0.00	0.0	3.061	0.000	0	0	0	1
PL.36662	PD.5263	B	#2 ACSR	7.27Y	121.1	0.00	3.86	1.10	1	8	2	97	0.00	0.0	3.095	0.033	8	2	1	1
PL.36146	PL.36145	ABC	336 MCM AC	7.27Y	121.1	0.00	3.86	7.65	1	163	38	97	0.00	0.0	3.090	0.029	0	0	0	19
PL.35311	PL.36146	ABC	336 MCM AC	7.27Y	121.1	0.03	3.88	7.04	1	150	35	97	0.02	0.0	3.664	0.575	31	7	3	17
PL.35312	PL.35311	ABC	336 MCM AC	7.27Y	121.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	3.721	0.057	0	0	0	0
PL.35313	PL.35312	ABC	336 MCM AC	7.27Y	121.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	3.821	0.100	0	0	0	0
PD.5870-A	PL.35313	ABC	Open	7.27Y	121.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	3.821	0.100	0	0	0	0
PL.34202	PL.35311	C	6 A (CWC)	7.27Y	121.1	0.03	3.92	9.75	7	69	16	97	0.01	0.0	3.758	0.094	34	8	2	5
PL.34203	PL.34202	C	6 A (CWC)	7.26Y	121.1	0.01	3.92	4.92	4	35	8	97	0.00	0.0	3.811	0.053	35	8	3	3
PL.34496	PL.35311	ABC	#2 ACSR	7.27Y	121.1	0.00	3.88	1.44	1	31	7	98	0.00	0.0	3.675	0.011	24	6	2	5
PL.34498	PL.34496	C	#2 ACSR	7.27Y	121.1	0.00	3.88	0.88	1	6	1	99	0.00	0.0	3.675	0.000	0	0	0	3
PD.5261	PL.34498	C	40QA	7.27Y	121.1	0.00	3.88	0.88	2	6	1	99	0.00	0.0	3.675	0.000	0	0	0	3
PL.36337	PD.5261	C	#2 ACSR	7.27Y	121.1	0.00	3.89	0.88	1	6	1	99	0.00	0.0	3.780	0.104	0	0	0	3
PL.36338	PL.36337	C	#2 ACSR	7.27Y	121.1	0.00	3.89	0.88	1	6	1	99	0.00	0.0	3.877	0.097	6	1	3	3
PL.34497	PL.35311	C	#2 ACSR	7.27Y	121.1	0.00	3.88	2.70	2	19	4	98	0.00	0.0	3.665	0.001	0	0	0	4
PD.5250	PL.34497	C	40QA	7.27Y	121.1	0.00	3.88	2.70	7	19	4	98	0.00	0.0	3.665	0.001	0	0	0	4
PL.56304	PD.5250	C	#2 ACSR	7.27Y	121.1	0.00	3.89	2.70	2	19	4	98	0.00	0.0	3.686	0.021	15	3	3	4
PL.56305	PL.56304	C	#2 ACSR	7.27Y	121.1	0.00	3.89	0.62	0	4	1	97	0.00	0.0	3.715	0.028	4	1	1	1
PL.35329	PL.36146	B	#2 ACSR	7.27Y	121.1	0.00	3.86	1.84	1	13	3	97	0.00	0.0	3.091	0.002	0	0	0	2
PD.5262	PL.35329	B	40QA	7.27Y	121.1	0.00	3.86	1.84	5	13	3	97	0.00	0.0	3.091	0.002	0	0	0	2
PL.35330	PD.5262	B	#2 ACSR	7.27Y	121.1	0.00	3.86	1.84	1	13	3	97	0.00	0.0	3.112	0.021	13	3	2	2
PL.35129	PL.59912	B	6 A (CWC)	7.27Y	121.1	0.00	3.85	1.77	1	13	3	97	0.00	0.0	2.937	0.001	0	0	0	2
PD.5133	PL.35129	B	40QA	7.27Y	121.1	0.00	3.85	1.77	4	13	3	97	0.00	0.0	2.937	0.001	0	0	0	2
PL.34648	PD.5133	B	6 A (CWC)	7.27Y	121.1	0.00	3.85	1.77	1	13	3	97	0.00	0.0	3.032	0.096	13	3	2	2
PL.36204	PL.62050	B	6 A (CWC)	7.27Y	121.2	0.00	3.83	2.53	2	18	4	98	0.00	0.0	2.738	0.002	0	0	0	2
PD.5043	PL.36204	B	40QA	7.27Y	121.2	0.00	3.83	2.53	6	18	4	98	0.00	0.0	2.738	0.002	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36205	PD.5043	B	6 A (CWC)	7.27Y	121.2	0.01	3.85	2.53	2	18	4	98	0.00	0.0	2.906	0.168	8	2	1	2
PL.35384	PL.36205	B	6 A (CWC)	7.27Y	121.1	0.00	3.85	1.41	1	10	2	98	0.00	0.0	2.972	0.066	10	2	1	1
PL.35385	PL.35384	B	6 A (CWC)	7.27Y	121.1	0.00	3.85	0.00	0	0	0	100	0.00	0.0	3.029	0.057	0	0	0	0
PL.35778	PL.35385	B	6 A (CWC)	7.27Y	121.1	0.00	3.85	0.00	0	0	0	100	0.00	0.0	3.169	0.140	0	0	0	0
PL.35891	PL.35888	B	6 A (CWC)	7.27Y	121.2	0.00	3.76	2.46	2	17	4	97	0.00	0.0	1.964	0.001	0	0	0	3
PD.5728	PL.35891	B	75QA	7.27Y	121.2	0.00	3.76	2.46	3	17	4	97	0.00	0.0	1.964	0.001	0	0	0	3
PL.35892	PD.5728	B	6 A (CWC)	7.27Y	121.2	0.00	3.76	2.46	2	17	4	97	0.00	0.0	2.000	0.036	11	2	2	3
PL.35890	PL.35892	B	6 A (CWC)	7.27Y	121.2	0.00	3.76	0.94	1	7	2	96	0.00	0.0	2.070	0.070	7	2	1	1
PL.57687	PL.34588	ABC	6 A (CWC)	7.28Y	121.3	0.00	3.74	0.01	0	0	0	100	0.00	0.0	1.812	0.007	0	0	0	2
PD.8381	PL.57687	ABC	40QA	7.28Y	121.3	0.00	3.74	0.01	0	0	0	100	0.00	0.0	1.812	0.007	0	0	0	2
PL.57688	PD.8381	ABC	6 A (CWC)	7.28Y	121.3	0.00	3.74	0.01	0	0	0	100	0.00	0.0	1.814	0.001	0	0	2	2
PL.34725	PL.34588	C	#4 ACSR	7.28Y	121.3	0.00	3.74	1.84	1	13	3	97	0.00	0.0	1.806	0.001	0	0	0	1
PD.5272	PL.34725	C	75QA	7.28Y	121.3	0.00	3.74	1.84	2	13	3	97	0.00	0.0	1.806	0.001	0	0	0	1
PL.35380	PD.5272	C	#4 ACSR	7.28Y	121.3	0.00	3.74	1.84	1	13	3	97	0.00	0.0	1.853	0.047	13	3	1	1
PL.35381	PL.35380	C	#4 ACSR	7.28Y	121.3	0.00	3.74	0.00	0	0	0	100	0.00	0.0	1.942	0.089	0	0	0	0
CP.87	PL.52723	ABC	Cap (300)	7.30Y	121.6	0.00	3.35	0.00	0	0	0	100	0.00	0.0	1.500	0.089	0	0	0	0
PL.36659	PL.36705	C	6 A (CWC)	7.35Y	122.5	0.01	2.52	3.10	2	22	5	98	0.00	0.0	1.168	0.092	0	0	0	1
PD.5136	PL.36659	C	75QA	7.35Y	122.5	0.00	2.52	3.10	4	22	5	98	0.00	0.0	1.168	0.092	0	0	0	1
PL.36660	PD.5136	C	6 A (CWC)	7.35Y	122.5	0.02	2.54	3.10	2	22	5	98	0.00	0.0	1.387	0.219	22	5	1	1
PL.33725	PL.36702	A	#4 ACSR	7.37Y	122.9	0.03	2.12	26.52	20	190	44	97	0.05	0.0	0.894	0.028	0	0	0	36
PL.36703	PL.33725	A	#4 ACSR	7.37Y	122.9	0.01	2.13	26.52	20	190	44	97	0.01	0.0	0.900	0.006	0	0	0	36
PD.5784	PL.36703	A	50L	7.37Y	122.9	0.00	2.13	26.52	53	190	44	97	0.00	0.0	0.900	0.006	0	0	0	36
PL.36704	PD.5784	A	#4 ACSR	7.36Y	122.7	0.21	2.34	26.52	20	190	44	97	0.31	0.2	1.082	0.182	0	0	0	36
PL.52367	PL.36704	A	#4 ACSR	7.36Y	122.6	0.08	2.42	26.52	20	190	44	97	0.11	0.1	1.150	0.068	7	2	1	36
PL.52366	PL.52367	A	#4 ACSR	7.35Y	122.5	0.12	2.54	25.47	20	183	42	97	0.17	0.1	1.264	0.114	9	2	2	35
PL.52352	PL.52366	A	#4 ACSR	7.34Y	122.4	0.07	2.61	24.21	19	173	40	97	0.09	0.1	1.333	0.069	16	4	1	33
PL.52354	PL.52352	A	#4 ACSR	7.34Y	122.4	0.01	2.62	7.35	6	53	12	98	0.00	0.0	1.350	0.017	3	1	1	9
PL.52351	PL.52354	A	#4 ACSR	7.34Y	122.4	0.01	2.63	3.61	3	26	6	97	0.00	0.0	1.443	0.092	12	3	2	5
PL.36213	PL.52351	A	#4 ACSR	7.34Y	122.4	0.01	2.64	1.92	1	14	3	98	0.00	0.0	1.581	0.139	0	0	0	3
PL.34105	PL.36213	A	#4 ACSR	7.34Y	122.4	0.00	2.64	1.28	1	9	2	98	0.00	0.0	1.629	0.047	0	0	0	2
PL.34751	PL.34105	A	#2 ACSR	7.34Y	122.4	0.00	2.64	0.00	0	0	0	100	0.00	0.0	1.696	0.067	0	0	0	0

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34106	PL.34105	A	#4 ACSR	7.34Y	122.4	0.00	2.65	1.28	1	9	2	98	0.00	0.0	1.694	0.065	0	0	0	2
PL.34494	PL.34106	A	#4 ACSR	7.34Y	122.4	0.00	2.65	1.28	1	9	2	98	0.00	0.0	1.719	0.025	0	0	0	2
PL.35300	PL.34494	A	#4 ACSR	7.34Y	122.4	0.00	2.65	1.28	1	9	2	98	0.00	0.0	1.755	0.036	9	2	2	2
PL.34561	PL.36213	A	#2 ACSR	7.34Y	122.4	0.00	2.64	0.65	0	5	1	98	0.00	0.0	1.600	0.018	5	1	1	1
PL.35887	PL.34561	A	#2 ACSR	7.34Y	122.4	0.00	2.64	0.00	0	0	0	100	0.00	0.0	1.630	0.031	0	0	0	0
PL.52355	PL.52354	A	#4 ACSR	7.34Y	122.4	0.01	2.62	3.36	3	24	6	97	0.00	0.0	1.403	0.052	0	0	0	3
PL.52369	PL.52355	A	#1/0 ACSR	7.34Y	122.4	0.00	2.63	2.67	1	19	4	98	0.00	0.0	1.420	0.017	0	0	0	2
PL.52370	PL.52369	A	#1/0 ACSR	7.34Y	122.4	0.00	2.63	2.67	1	19	4	98	0.00	0.0	1.439	0.019	19	4	2	2
PL.52368	PL.52355	A	#4 ACSR	7.34Y	122.4	0.00	2.63	0.68	1	5	1	98	0.00	0.0	1.452	0.049	5	1	1	1
PL.52353	PL.52352	A	#4 ACSR	7.34Y	122.4	0.03	2.64	14.60	11	104	24	97	0.03	0.0	1.384	0.051	0	0	0	23
PL.61985	PL.52353	A	#4 ACSR	7.34Y	122.4	0.00	2.65	0.72	1	5	1	98	0.00	0.0	1.422	0.038	5	1	1	1
PL.52364	PL.52353	A	#4 ACSR	7.34Y	122.3	0.03	2.67	13.88	11	99	23	97	0.02	0.0	1.427	0.042	6	1	1	22
PL.65320	PL.52364	A	#4 ACSR	7.34Y	122.3	0.02	2.69	12.98	10	93	22	97	0.02	0.0	1.468	0.041	0	0	0	21
PL.65321	PL.65320	A	#4 ACSR	7.34Y	122.3	0.00	2.69	12.98	10	93	22	97	0.00	0.0	1.468	0.000	14	3	1	21
PL.52363	PL.65321	A	#4 ACSR	7.34Y	122.3	0.02	2.71	11.07	9	79	18	98	0.01	0.0	1.512	0.044	2	0	1	20
PL.52362	PL.52363	A	#4 ACSR	7.34Y	122.3	0.02	2.73	10.82	8	77	18	97	0.01	0.0	1.546	0.034	0	0	0	19
PL.52361	PL.52362	A	#4 ACSR	7.33Y	122.2	0.04	2.77	10.82	8	77	18	97	0.02	0.0	1.637	0.091	18	4	2	19
PL.52360	PL.52361	A	#4 ACSR	7.33Y	122.2	0.01	2.78	8.30	6	59	14	97	0.01	0.0	1.669	0.032	0	0	0	17
PL.52359	PL.52360	A	#4 ACSR	7.33Y	122.2	0.01	2.79	8.30	6	59	14	97	0.00	0.0	1.701	0.032	8	2	2	17
PL.52358	PL.52359	A	#4 ACSR	7.33Y	122.2	0.02	2.82	7.21	6	52	12	97	0.01	0.0	1.780	0.078	5	1	1	15
PL.35733	PL.52358	A	#4 ACSR	7.33Y	122.2	0.02	2.83	6.53	5	47	11	97	0.01	0.0	1.841	0.061	0	0	0	14
PL.52357	PL.35733	A	#4 ACSR	7.33Y	122.2	0.00	2.84	6.53	5	47	11	97	0.00	0.0	1.857	0.017	10	2	2	14
PL.52356	PL.52357	A	#4 ACSR	7.33Y	122.2	0.01	2.85	5.18	4	37	9	97	0.00	0.0	1.903	0.046	1	0	2	12
PL.35040	PL.52356	A	#4 ACSR	7.33Y	122.1	0.01	2.86	5.04	4	36	8	98	0.00	0.0	1.955	0.052	9	2	1	10
PL.62719	PL.35040	A	#4 ACSR	7.33Y	122.1	0.01	2.87	3.80	3	27	6	98	0.00	0.0	2.021	0.066	14	3	3	9
PL.62720	PL.62719	A	#4 ACSR	7.33Y	122.1	0.00	2.87	1.88	1	13	3	97	0.00	0.0	2.065	0.044	1	0	1	6
PL.35732	PL.62720	A	#4 ACSR	7.33Y	122.1	0.00	2.87	1.80	1	13	3	97	0.00	0.0	2.094	0.029	7	2	2	5
PL.35731	PL.35732	A	#4 ACSR	7.33Y	122.1	0.00	2.87	0.88	1	6	1	99	0.00	0.0	2.137	0.043	0	0	0	3
PL.35730	PL.35731	A	#4 ACSR	7.33Y	122.1	0.00	2.87	0.88	1	6	1	99	0.00	0.0	2.179	0.041	0	0	0	3
PL.35729	PL.35730	A	#4 ACSR	7.33Y	122.1	0.01	2.88	0.88	1	6	1	99	0.00	0.0	2.311	0.132	0	0	0	3
PL.35728	PL.35729	A	#4 ACSR	7.33Y	122.1	0.01	2.89	0.88	1	6	1	99	0.00	0.0	2.467	0.156	0	0	1	3

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35727	PL.35728	A	#4 ACSR	7.33Y	122.1	0.00	2.89	0.86	1	6	1	99	0.00	0.0	2.593	0.126	6	1	2	2
PL.62311	East Bernstadt	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	62.89	12	1283	597	91	0.01	0.0	0.004	0.004	0	0	0	16
PL.52876	PL.62311	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	62.89	12	1283	597	91	0.01	0.0	0.006	0.002	0	0	0	16

----- Feeder No. 2 (Stave Mill F2) Beginning with Device PD.8056 -----																				
PD.8056	PL.52876	ABC	480VWE	7.50Y	125.0	0.00	0.00	62.89	0	1283	597	91	0.00	0.0	0.006	0.002	0	0	0	16
PL.33354	PD.8056	ABC	#3/0 ACSR	7.45Y	124.2	0.78	0.79	62.89	21	1283	597	91	5.82	0.5	0.885	0.879	5	1	1	16
PL.35743	PL.33354	C	#2 ACSR	7.45Y	124.2	0.00	0.79	11.80	7	86	20	97	0.00	0.0	0.886	0.001	0	0	0	8
PD.5744	PL.35743	C	30T	7.45Y	124.2	0.00	0.79	11.80	0	86	20	97	0.00	0.0	0.886	0.001	0	0	0	8
PL.35415	PD.5744	C	#2 ACSR	7.45Y	124.2	0.01	0.80	11.80	7	86	20	97	0.01	0.0	0.922	0.036	11	2	1	8
PL.36106	PL.35415	C	#2 ACSR	7.45Y	124.1	0.06	0.85	10.31	6	75	17	98	0.03	0.0	1.111	0.189	8	2	1	7
PL.36107	PL.36106	C	#2 ACSR	7.45Y	124.1	0.01	0.87	9.15	5	66	15	98	0.00	0.0	1.154	0.043	15	4	1	6
PL.35707	PL.36107	C	#2 ACSR	7.45Y	124.1	0.00	0.87	6.09	3	44	10	98	0.00	0.0	1.177	0.023	15	4	1	4
PL.36701	PL.35707	C	#2 ACSR	7.45Y	124.1	0.00	0.87	3.99	2	29	7	97	0.00	0.0	1.225	0.048	29	7	3	3
PL.35048	PL.36107	C	#2 ACSR	7.45Y	124.1	0.00	0.87	0.93	1	7	2	96	0.00	0.0	1.233	0.079	7	2	1	1
PL.35356	PL.33354	ABC	#3/0 ACSR	7.44Y	124.1	0.14	0.92	58.82	20	1187	567	90	0.96	0.1	1.050	0.165	0	0	0	7
PL.35928	PL.35356	ABC	#3/0 ACSR	7.44Y	124.1	0.02	0.95	46.06	15	928	443	90	0.13	0.0	1.087	0.037	0	0	0	5
PL.58485	PL.35928	ABC	#4 ACSR	7.44Y	124.0	0.01	0.95	44.91	35	903	437	90	0.04	0.0	1.090	0.003	0	0	0	2
PD.8692	PL.58485	ABC	50T	7.44Y	124.0	0.00	0.95	44.91	0	903	437	90	0.00	0.0	1.090	0.003	0	0	0	2
PL.58486	PD.8692	ABC	#4 ACSR	7.44Y	124.0	0.02	0.98	44.91	35	903	437	90	0.18	0.0	1.104	0.014	0	0	0	2
PL.58484	PL.58486	ABC	#4 ACSR	7.44Y	123.9	0.09	1.07	44.91	35	902	437	90	0.57	0.1	1.175	0.071	467	226	1	2
PL.35237	PL.58484	ABC	#4 ACSR	7.43Y	123.9	0.04	1.10	21.66	17	435	211	90	0.09	0.0	1.264	0.089	435	211	1	1
PL.58872	PL.35928	ABC	#3/0 ACSR	7.44Y	124.1	0.00	0.95	1.18	0	26	6	97	0.00	0.0	1.152	0.065	0	0	0	3
PL.58873	PL.58872	C	6 A (CWC)	7.44Y	124.1	0.00	0.95	3.53	3	26	6	97	0.00	0.0	1.153	0.002	0	0	0	3
PD.5850	PL.58873	C	75QA	7.44Y	124.1	0.00	0.95	3.53	5	26	6	97	0.00	0.0	1.153	0.002	0	0	0	3
PL.36219	PD.5850	C	6 A (CWC)	7.44Y	124.0	0.02	0.97	3.53	3	26	6	97	0.00	0.0	1.273	0.119	0	0	0	3
PL.35229	PL.36219	C	#4 ACSR	7.44Y	124.0	0.00	0.97	0.00	0	0	0	100	0.00	0.0	1.400	0.128	0	0	0	0
PL.36848	PL.36219	C	6 A (CWC)	7.44Y	124.0	0.00	0.97	3.53	3	26	6	97	0.00	0.0	1.293	0.020	2	0	1	3
PL.37140	PL.36848	C	6 A (CWC)	7.44Y	124.0	0.00	0.97	3.31	2	24	6	97	0.00	0.0	1.347	0.054	24	6	2	2
PL.58874	PL.58872	ABC	#3/0 ACSR	7.44Y	124.1	0.00	0.95	0.00	0	0	0	100	0.00	0.0	1.203	0.051	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.8480-A	PL.58874	ABC	Open	7.44Y	124.1	0.00	0.95	0.00	0	0	0	100	0.00	0.0	1.203	0.051	0	0	0	0
PL.36062	PL.35356	ABC	#4 ACSR	7.44Y	124.1	0.00	0.92	12.76	10	257	123	90	0.00	0.0	1.050	0.000	0	0	0	2
PD.5745	PL.36062	ABC	75QA	7.44Y	124.1	0.00	0.92	12.76	17	257	123	90	0.00	0.0	1.050	0.000	0	0	0	2
PL.36063	PD.5745	ABC	#4 ACSR	7.44Y	124.1	0.02	0.94	12.76	10	257	123	90	0.05	0.0	1.094	0.043	0	0	0	2
PL.33762	PL.36063	ABC	#4 ACSR	7.44Y	124.1	0.00	0.95	12.76	10	257	123	90	0.00	0.0	1.098	0.005	257	123	2	2
PL.62309	East Bernstadt	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	215.00	41	4620	1434	96	0.18	0.0	0.005	0.005	0	0	0	546
PL.58712	PL.62309	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	215.00	41	4620	1434	96	0.12	0.0	0.008	0.003	0	0	0	546
----- Feeder No. 3 (Swiss Colony F3) Beginning with Device PD.8728 -----																				
PD.8728	PL.58712	ABC	480VWE	7.50Y	125.0	0.00	0.01	215.00	0	4620	1433	96	0.00	0.0	0.008	0.003	0	0	0	546
PL.65316	PD.8728	ABC	336 MCM AC	7.48Y	124.6	0.35	0.36	215.00	41	4620	1433	96	8.19	0.2	0.218	0.210	0	0	0	546
PL.65317	PL.65316	ABC	336 MCM AC	7.46Y	124.3	0.38	0.74	215.00	41	4612	1414	96	8.91	0.2	0.447	0.229	0	0	0	546
PL.58714	PL.65317	ABC	336 MCM AC	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	0.450	0.004	0	0	0	0
PD.8729-B	PL.58714	ABC	Open	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	0.450	0.004	0	0	0	0
PL.58711	PL.65317	ABC	336 MCM AC	7.44Y	124.1	0.20	0.93	215.00	41	4603	1393	96	4.67	0.1	0.567	0.120	0	0	0	546
PL.58742	PL.58711	ABC	336 MCM AC	7.44Y	123.9	0.13	1.07	215.00	41	4598	1382	96	3.18	0.1	0.648	0.082	0	0	0	546
PL.58730	PL.58742	ABC	336 MCM AC	7.43Y	123.8	0.13	1.20	215.00	41	4595	1375	96	3.18	0.1	0.730	0.082	0	0	0	546
PL.58733	PL.58730	ABC	336 MCM AC	7.42Y	123.6	0.16	1.36	215.00	41	4592	1368	96	3.76	0.1	0.827	0.097	0	0	0	546
PL.58734	PL.58733	ABC	336 MCM AC	7.41Y	123.5	0.17	1.53	215.00	41	4588	1359	96	4.12	0.1	0.933	0.106	0	0	0	546
PL.58740	PL.58734	C	6 A (CWC)	7.41Y	123.5	0.00	1.53	3.91	3	28	7	97	0.00	0.0	0.934	0.001	0	0	0	7
PD.8725	PL.58740	C	40QA	7.41Y	123.5	0.00	1.53	3.91	10	28	7	97	0.00	0.0	0.934	0.001	0	0	0	7
PL.58741	PD.8725	C	6 A (CWC)	7.41Y	123.4	0.03	1.56	3.91	3	28	7	97	0.01	0.0	1.109	0.175	2	1	2	7
PL.58736	PL.58741	C	6 A (CWC)	7.41Y	123.4	0.00	1.56	3.58	3	26	6	97	0.00	0.0	1.121	0.012	7	2	1	5
PL.62071	PL.58736	C	6 A (CWC)	7.41Y	123.4	0.01	1.57	2.57	2	19	4	98	0.00	0.0	1.211	0.089	19	4	4	4
PL.58732	PL.58734	ABC	336 MCM AC	7.40Y	123.3	0.14	1.68	213.70	41	4556	1343	96	3.43	0.1	1.022	0.089	22	5	4	539
PL.36510	PL.58732	ABC	336 MCM AC	7.39Y	123.2	0.14	1.82	212.67	41	4530	1330	96	3.32	0.1	1.109	0.087	0	0	0	535
PL.33386	PL.36510	ABC	336 MCM AC	7.39Y	123.1	0.09	1.91	212.67	41	4527	1322	96	2.25	0.0	1.168	0.059	10	2	1	535
PL.33387	PL.33386	ABC	336 MCM AC	7.38Y	122.9	0.16	2.07	211.04	41	4489	1308	96	3.83	0.1	1.270	0.102	0	0	0	531
PL.34995	PL.33387	ABC	336 MCM AC	7.37Y	122.8	0.09	2.17	211.04	41	4485	1299	96	2.21	0.0	1.329	0.059	0	0	0	531
PL.34024	PL.34995	C	#2 ACSR	7.37Y	122.8	0.00	2.17	1.21	1	9	2	98	0.00	0.0	1.330	0.001	0	0	0	1

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.5062	PL.34024	C	40QA	7.37Y	122.8	0.00	2.17	1.21	3	9	2	98	0.00	0.0	1.330	0.001	0	0	0	1
PL.34370	PD.5062	C	#2 ACSR	7.37Y	122.8	0.00	2.17	1.21	1	9	2	98	0.00	0.0	1.361	0.031	9	2	1	1
PL.36144	PL.34995	ABC	336 MCM AC	7.37Y	122.8	0.03	2.20	210.63	41	4474	1292	96	0.71	0.0	1.348	0.019	0	0	0	530
PL.36326	PL.36144	A	#4 ACSR	7.37Y	122.8	0.00	2.20	1.45	1	10	2	98	0.00	0.0	1.350	0.001	0	0	0	3
PD.5064	PL.36326	A	75QA	7.37Y	122.8	0.00	2.20	1.45	2	10	2	98	0.00	0.0	1.350	0.001	0	0	0	3
PL.36327	PD.5064	A	#4 ACSR	7.37Y	122.8	0.00	2.20	1.45	1	10	2	98	0.00	0.0	1.389	0.039	7	2	2	3
PL.36328	PL.36327	A	#4 ACSR	7.37Y	122.8	0.00	2.20	0.46	0	3	1	95	0.00	0.0	1.440	0.051	3	1	1	1
PL.35705	PL.36144	ABC	336 MCM AC	7.36Y	122.6	0.19	2.39	210.15	40	4463	1288	96	4.52	0.1	1.470	0.121	0	0	0	527
PL.35706	PL.35705	ABC	336 MCM AC	7.35Y	122.6	0.06	2.45	210.15	40	4459	1278	96	1.31	0.0	1.505	0.035	0	0	0	527
PL.34651	PL.35706	A	#4 ACSR	7.35Y	122.6	0.00	2.45	2.11	2	15	3	98	0.00	0.0	1.506	0.001	0	0	0	2
PD.5065	PL.34651	A	75QA	7.35Y	122.6	0.00	2.45	2.11	3	15	3	98	0.00	0.0	1.506	0.001	0	0	0	2
PL.35704	PD.5065	A	#4 ACSR	7.35Y	122.5	0.01	2.46	2.11	2	15	3	98	0.00	0.0	1.785	0.279	15	3	2	2
PL.33711	PL.35706	A	6 A (CWC)	7.35Y	122.5	0.01	2.46	3.74	3	27	6	98	0.00	0.0	1.629	0.123	27	6	2	2
PL.64718	PL.35706	ABC	336 MCM AC	7.33Y	122.1	0.42	2.86	208.21	40	4415	1265	96	9.76	0.2	1.773	0.268	7	2	2	523
PL.64720	PL.64718	C	#4 ACSR	7.33Y	122.1	0.00	2.86	4.96	4	35	8	97	0.00	0.0	1.776	0.003	0	0	0	6
PD.8908	PL.64720	C	40QA	7.33Y	122.1	0.00	2.86	4.96	12	35	8	97	0.00	0.0	1.776	0.003	0	0	0	6
PL.59484	PD.8908	C	#4 ACSR	7.33Y	122.1	0.02	2.88	4.96	4	35	8	97	0.01	0.0	1.875	0.099	0	0	0	6
PL.59482	PL.59484	C	#4 ACSR	7.33Y	122.1	0.00	2.89	1.92	1	14	3	98	0.00	0.0	1.929	0.054	14	3	1	1
PL.59481	PL.59484	C	#2 ACSR	7.33Y	122.1	0.00	2.89	3.04	2	22	5	98	0.00	0.0	1.901	0.026	22	5	5	5
PL.64719	PL.64718	C	#4 ACSR	7.33Y	122.1	0.00	2.86	0.57	0	4	1	97	0.00	0.0	1.776	0.003	0	0	0	1
PD.8907	PL.64719	C	40QA	7.33Y	122.1	0.00	2.86	0.57	1	4	1	97	0.00	0.0	1.776	0.003	0	0	0	1
PL.59483	PD.8907	C	#4 ACSR	7.33Y	122.1	0.00	2.86	0.57	0	4	1	97	0.00	0.0	1.861	0.085	4	1	1	1
PL.64717	PL.64718	ABC	336 MCM AC	7.32Y	122.0	0.18	3.04	206.04	40	4359	1231	96	4.18	0.1	1.889	0.117	0	0	0	514
PL.34030	PL.64717	C	6 A (CWC)	7.32Y	122.0	0.00	3.04	4.49	3	32	7	98	0.00	0.0	1.891	0.002	0	0	0	3
PD.5158	PL.34030	C	75QA	7.32Y	122.0	0.00	3.04	4.49	6	32	7	98	0.00	0.0	1.891	0.002	0	0	0	3
PL.34031	PD.5158	C	6 A (CWC)	7.32Y	121.9	0.01	3.06	4.49	3	32	7	98	0.00	0.0	1.983	0.092	13	3	2	3
PL.33981	PL.34031	C	6 A (CWC)	7.32Y	121.9	0.00	3.06	2.62	2	19	4	98	0.00	0.0	2.038	0.055	19	4	1	1
PL.34029	PL.64717	ABC	336 MCM AC	7.31Y	121.8	0.16	3.20	204.55	39	4323	1214	96	3.66	0.1	1.994	0.104	15	3	1	511
PL.34327	PL.34029	ABC	336 MCM AC	7.30Y	121.6	0.18	3.38	201.42	39	4253	1190	96	4.02	0.1	2.111	0.118	0	0	0	504
PL.35575	PL.34327	ABC	336 MCM AC	7.30Y	121.6	0.00	3.38	12.77	2	272	63	97	0.01	0.0	2.159	0.047	0	0	0	34
PL.36686	PL.35575	C	6 A (CWC)	7.30Y	121.6	0.00	3.38	38.29	27	272	63	97	0.01	0.0	2.161	0.002	0	0	0	33

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.5719	PL.36686	C	70QA	7.30Y	121.6	0.00	3.38	38.29	0	272	63	97	0.00	0.0	2.161	0.002	0	0	0	33
PL.36687	PD.5719	C	#1/0 ACSR	7.30Y	121.6	0.02	3.41	38.29	17	272	63	97	0.04	0.0	2.189	0.028	24	6	4	33
PL.36684	PL.36687	C	#4 ACSR	7.29Y	121.5	0.06	3.47	34.88	27	248	58	97	0.11	0.0	2.229	0.040	9	2	2	29
PL.36685	PL.36684	C	6 A (CWC)	7.29Y	121.5	0.04	3.50	33.63	24	239	56	97	0.07	0.0	2.253	0.024	9	2	1	27
PL.33438	PL.36685	C	6 A (CWC)	7.28Y	121.4	0.12	3.62	32.42	23	230	53	97	0.21	0.1	2.335	0.081	0	0	0	26
PL.35685	PL.33438	C	#4 ACSR	7.28Y	121.4	0.01	3.63	3.44	3	24	6	97	0.00	0.0	2.431	0.096	24	6	2	2
PL.33524	PL.33438	C	#4 ACSR	7.28Y	121.4	0.00	3.62	0.00	0	0	0	100	0.00	0.0	2.390	0.056	0	0	0	0
PL.35442	PL.33438	C	#4 ACSR	7.28Y	121.4	0.02	3.64	28.98	22	206	48	97	0.03	0.0	2.349	0.015	9	2	1	24
PL.35443	PL.35442	C	#4 ACSR	7.28Y	121.3	0.06	3.70	27.71	21	197	46	97	0.08	0.0	2.405	0.055	40	9	4	23
PL.35444	PL.35443	C	#4 ACSR	7.27Y	121.2	0.06	3.76	22.09	17	157	36	97	0.07	0.0	2.463	0.058	0	0	0	19
PL.35445	PL.35444	C	#4 ACSR	7.27Y	121.2	0.03	3.79	22.09	17	157	36	97	0.04	0.0	2.499	0.036	24	5	3	18
PL.35448	PL.35445	C	#4 ACSR	7.27Y	121.2	0.04	3.83	18.74	14	133	31	97	0.04	0.0	2.550	0.050	14	3	1	15
PL.35449	PL.35448	C	#4 ACSR	7.27Y	121.1	0.03	3.87	16.70	13	118	27	97	0.03	0.0	2.599	0.050	14	3	1	14
PL.35548	PL.35449	C	#4 ACSR	7.27Y	121.1	0.04	3.91	14.76	11	105	24	97	0.03	0.0	2.664	0.065	8	2	1	13
PL.35551	PL.35548	C	#4 ACSR	7.27Y	121.1	0.01	3.91	13.68	11	97	22	98	0.01	0.0	2.678	0.014	7	2	1	12
PL.35547	PL.35551	C	#4 ACSR	7.26Y	121.1	0.02	3.93	10.16	8	72	17	97	0.01	0.0	2.726	0.048	31	7	3	8
PL.35546	PL.35547	C	#4 ACSR	7.26Y	121.1	0.00	3.94	5.84	4	41	10	97	0.00	0.0	2.748	0.022	20	5	2	5
PL.35504	PL.35546	C	#4 ACSR	7.26Y	121.1	0.00	3.94	3.07	2	22	5	98	0.00	0.0	2.795	0.047	22	5	3	3
PL.34838	PL.35551	C	#4 ACSR	7.26Y	121.1	0.00	3.92	2.54	2	18	4	98	0.00	0.0	2.727	0.049	18	4	3	3
PL.35178	PL.35444	C	#4 ACSR	7.27Y	121.2	0.00	3.76	0.00	0	0	0	100	0.00	0.0	2.480	0.017	0	0	1	1
PL.59938	PL.35575	ABC	336 MCM AC	7.30Y	121.6	0.00	3.38	0.00	0	0	0	100	0.00	0.0	2.201	0.042	0	0	0	1
PL.59937	PL.59938	C	#4 ACSR	7.30Y	121.6	0.00	3.38	0.01	0	0	0	100	0.00	0.0	2.202	0.001	0	0	0	1
PD.5705	PL.59937	C	75QA	7.30Y	121.6	0.00	3.38	0.01	0	0	0	100	0.00	0.0	2.202	0.001	0	0	0	1
PL.34265	PD.5705	C	#4 ACSR	7.30Y	121.6	0.00	3.38	0.01	0	0	0	100	0.00	0.0	2.252	0.051	0	0	1	1
PL.59939	PL.59938	ABC	336 MCM AC	7.30Y	121.6	0.00	3.38	0.00	0	0	0	100	0.00	0.0	2.265	0.064	0	0	0	0
PD.8900-A	PL.59939	ABC	Open	7.30Y	121.6	0.00	3.38	0.00	0	0	0	100	0.00	0.0	2.265	0.064	0	0	0	0
PL.52025	PL.34327	ABC	336 MCM AC	7.28Y	121.4	0.22	3.60	188.67	36	3976	1117	96	4.71	0.1	2.269	0.157	2	1	1	470
PL.52026	PL.52025	C	#4 ACSR	7.28Y	121.4	0.00	3.60	4.01	3	28	7	97	0.00	0.0	2.270	0.001	0	0	0	2
PD.5766	PL.52026	C	75QA	7.28Y	121.4	0.00	3.60	4.01	5	28	7	97	0.00	0.0	2.270	0.001	0	0	0	2
PL.35369	PD.5766	C	#4 ACSR	7.28Y	121.4	0.01	3.61	4.01	3	28	7	97	0.00	0.0	2.363	0.094	28	7	2	2
PL.52029	PL.52025	ABC	336 MCM AC	7.28Y	121.3	0.11	3.71	187.22	36	3941	1099	96	2.40	0.1	2.350	0.081	0	0	0	467

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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.52031	PL.52029	ABC	336 MCM AC	7.27Y	121.2	0.10	3.81	185.07	36	3893	1083	96	1.99	0.1	2.419	0.069	14	3	2	460
PL.51537	PL.52031	C	#2 ACSR	7.27Y	121.2	0.00	3.81	5.40	3	38	9	97	0.00	0.0	2.420	0.001	0	0	0	4
PD.5720	PL.51537	C	75QA	7.27Y	121.2	0.00	3.81	5.40	7	38	9	97	0.00	0.0	2.420	0.001	0	0	0	4
PL.56335	PD.5720	C	#2 ACSR	7.27Y	121.2	0.00	3.81	5.40	3	38	9	97	0.00	0.0	2.449	0.029	9	2	1	4
PL.56336	PL.56335	C	#2 ACSR	7.27Y	121.2	0.00	3.81	1.21	1	9	2	98	0.00	0.0	2.455	0.006	9	2	1	1
PL.56334	PL.56335	C	#2 ACSR	7.27Y	121.2	0.00	3.81	2.95	2	21	5	97	0.00	0.0	2.480	0.031	21	5	2	2
PL.56338	PL.52031	ABC	336 MCM AC	7.27Y	121.1	0.05	3.86	180.43	35	3792	1056	96	1.00	0.0	2.456	0.036	4	1	1	436
PL.56339	PL.56338	ABC	336 MCM AC	7.27Y	121.1	0.04	3.90	179.10	35	3763	1047	96	0.88	0.0	2.488	0.032	0	0	0	431
PL.33763	PL.56339	ABC	336 MCM AC	7.27Y	121.1	0.00	3.90	179.10	35	3762	1045	96	0.02	0.0	2.489	0.001	0	0	0	431
PD.5857	PL.33763	ABC	340VWE	7.27Y	121.1	0.00	3.90	179.10	0	3762	1045	96	0.00	0.0	2.489	0.001	0	0	0	431
PL.33764	PD.5857	ABC	336 MCM AC	7.26Y	121.1	0.04	3.94	179.10	35	3762	1045	96	0.74	0.0	2.516	0.028	38	9	4	431
PL.33989	PL.33764	ABC	336 MCM AC	7.26Y	121.0	0.10	4.03	177.33	34	3723	1034	96	1.93	0.1	2.589	0.073	7	2	1	427
PL.51538	PL.33989	ABC	336 MCM AC	7.25Y	120.9	0.10	4.13	175.16	34	3675	1019	96	2.03	0.1	2.668	0.079	6	1	3	421
PL.56759	PL.51538	ABC	#1/0 ACSR	7.25Y	120.8	0.10	4.24	173.15	75	3631	1004	96	2.65	0.1	2.701	0.033	5	1	4	413
PL.56761	PL.56759	ABC	336 MCM AC	7.24Y	120.7	0.04	4.28	172.93	33	3623	1001	96	0.75	0.0	2.731	0.030	0	0	0	409
PL.56760	PL.56761	ABC	336 MCM AC	7.24Y	120.7	0.04	4.32	172.93	33	3622	999	96	0.87	0.0	2.766	0.035	8	2	3	409
PL.51542	PL.56760	ABC	336 MCM AC	7.24Y	120.6	0.05	4.37	166.75	32	3491	967	96	0.99	0.0	2.808	0.042	8	2	3	389
PL.51543	PL.51542	ABC	336 MCM AC	7.23Y	120.5	0.08	4.46	166.36	32	3482	962	96	1.58	0.0	2.876	0.068	33	8	4	386
PL.59953	PL.51543	A	6 A (CWC)	7.23Y	120.5	0.00	4.46	0.84	1	6	1	99	0.00	0.0	2.879	0.003	0	0	0	2
PD.8903	PL.59953	A	40QA	7.23Y	120.5	0.00	4.46	0.84	2	6	1	99	0.00	0.0	2.879	0.003	0	0	0	2
PL.59954	PD.8903	A	6 A (CWC)	7.23Y	120.5	0.00	4.46	0.84	1	6	1	99	0.00	0.0	2.910	0.031	6	1	2	2
PL.59950	PL.59954	A	6 A (CWC)	7.23Y	120.5	0.00	4.46	0.00	0	0	0	100	0.00	0.0	2.953	0.043	0	0	0	0
PL.34835	PL.51543	ABC	336 MCM AC	7.23Y	120.5	0.07	4.52	162.48	31	3398	940	96	1.25	0.0	2.933	0.056	18	4	1	374
PL.33336	PL.34835	ABC	336 MCM AC	7.22Y	120.4	0.08	4.61	161.66	31	3379	933	96	1.49	0.0	3.000	0.068	7	2	1	373
PL.35514	PL.33336	A	#2/0 ACSR	7.22Y	120.4	0.00	4.61	1.93	1	14	3	98	0.00	0.0	3.001	0.001	0	0	0	1
PD.5037	PL.35514	A	40QA	7.22Y	120.4	0.00	4.61	1.93	5	14	3	98	0.00	0.0	3.001	0.001	0	0	0	1
PL.35515	PD.5037	A	#2/0 ACSR	7.22Y	120.4	0.00	4.61	1.93	1	14	3	98	0.00	0.0	3.019	0.018	14	3	1	1
PL.51544	PL.33336	ABC	336 MCM AC	7.22Y	120.4	0.03	4.64	160.70	31	3357	925	96	0.59	0.0	3.028	0.027	9	2	2	371
PL.51545	PL.51544	ABC	336 MCM AC	7.22Y	120.3	0.03	4.67	160.25	31	3347	921	96	0.53	0.0	3.052	0.024	0	0	0	369
PL.52036	PL.51545	ABC	336 MCM AC	7.22Y	120.3	0.06	4.73	159.33	31	3327	915	96	1.14	0.0	3.105	0.053	0	0	0	366
PL.52035	PL.52036	C	6 A (CWC)	7.22Y	120.3	0.00	4.73	40.35	29	284	66	97	0.00	0.0	3.106	0.001	0	0	0	28

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.5021	PL.52035	C	75QA	7.22Y	120.3	0.00	4.73	40.35	54	284	66	97	0.00	0.0	3.106	0.001	0	0	0	28
PL.35158	PD.5021	C	6 A (CWC)	7.21Y	120.2	0.11	4.85	40.35	29	284	66	97	0.25	0.1	3.169	0.063	6	1	1	28
PL.34196	PL.35158	C	#4 ACSR	7.21Y	120.2	0.00	4.85	2.38	2	17	4	97	0.00	0.0	3.211	0.041	17	4	2	2
PL.35516	PL.35158	C	6 A (CWC)	7.20Y	120.0	0.12	4.97	37.13	27	261	61	97	0.24	0.1	3.246	0.077	15	3	2	25
PL.36313	PL.35516	C	6 A (CWC)	7.19Y	119.9	0.15	5.12	32.63	23	229	53	97	0.27	0.1	3.349	0.103	0	0	0	22
PL.34750	PL.36313	C	#4 ACSR	7.19Y	119.9	0.00	5.12	0.95	1	7	2	96	0.00	0.0	3.439	0.090	7	2	2	2
PL.36314	PL.36313	C	6 A (CWC)	7.19Y	119.8	0.04	5.17	31.68	23	222	52	97	0.07	0.0	3.382	0.033	19	4	2	20
PL.35768	PL.36314	C	6 A (CWC)	7.19Y	119.8	0.04	5.20	28.93	21	203	47	97	0.06	0.0	3.412	0.030	24	5	2	18
PL.33335	PL.35768	C	6 A (CWC)	7.18Y	119.7	0.09	5.29	25.55	18	179	42	97	0.12	0.1	3.486	0.074	0	0	0	16
PL.34028	PL.33335	C	6 A (CWC)	7.18Y	119.7	0.03	5.32	25.55	18	179	41	97	0.04	0.0	3.513	0.027	15	3	1	16
PL.34027	PL.34028	C	6 A (CWC)	7.18Y	119.6	0.03	5.35	23.44	17	164	38	97	0.04	0.0	3.544	0.030	10	2	1	15
PL.34026	PL.34027	C	6 A (CWC)	7.18Y	119.6	0.02	5.37	22.02	16	154	36	97	0.02	0.0	3.559	0.016	10	2	3	14
PL.34025	PL.34026	C	6 A (CWC)	7.18Y	119.6	0.01	5.38	20.52	15	143	33	97	0.01	0.0	3.577	0.018	34	8	3	11
PL.61994	PL.34025	C	#4 ACSR	7.18Y	119.6	0.01	5.39	14.48	11	101	23	98	0.01	0.0	3.602	0.025	25	6	2	7
PL.61995	PL.61994	C	#4 ACSR	7.18Y	119.6	0.01	5.41	10.93	8	76	18	97	0.00	0.0	3.645	0.042	76	18	5	5
PL.33992	PL.34025	C	6 A (CWC)	7.18Y	119.6	0.00	5.38	1.21	1	8	2	97	0.00	0.0	3.610	0.033	8	2	1	1
PL.59118	PL.35516	C	6 A (CWC)	7.20Y	120.0	0.00	4.97	2.36	2	17	4	97	0.00	0.0	3.301	0.054	17	4	1	1
PL.52033	PL.52036	ABC	336 MCM AC	7.21Y	120.2	0.10	4.83	145.89	28	3043	847	96	1.61	0.1	3.195	0.090	0	0	0	338
PL.52032	PL.52033	A	6 A (CWC)	7.21Y	120.2	0.00	4.83	7.02	5	49	11	98	0.00	0.0	3.197	0.002	0	0	0	4
PD.5753	PL.52032	A	75QA	7.21Y	120.2	0.00	4.83	7.02	9	49	11	98	0.00	0.0	3.197	0.002	0	0	0	4
PL.34518	PD.5753	A	6 A (CWC)	7.21Y	120.2	0.01	4.83	7.02	5	49	11	98	0.00	0.0	3.234	0.037	49	11	4	4
PL.52034	PL.52033	ABC	336 MCM AC	7.20Y	120.0	0.14	4.97	143.55	28	2992	831	96	2.35	0.1	3.331	0.135	3	1	2	334
PL.33377	PL.52034	ABC	336 MCM AC	7.20Y	120.0	0.07	5.04	116.13	22	2412	692	96	0.94	0.0	3.413	0.083	0	0	0	275
PL.36479	PL.33377	ABC	336 MCM AC	7.19Y	119.9	0.07	5.12	114.41	22	2375	681	96	0.91	0.0	3.497	0.083	20	5	3	271
PL.34669	PL.36479	ABC	336 MCM AC	7.19Y	119.8	0.06	5.17	112.74	22	2339	671	96	0.75	0.0	3.567	0.070	0	0	0	264
PL.34671	PL.34669	C	#4 ACSR	7.19Y	119.8	0.00	5.17	1.52	1	11	2	98	0.00	0.0	3.568	0.001	0	0	0	2
PD.5042	PL.34671	C	75QA	7.19Y	119.8	0.00	5.17	1.52	2	11	2	98	0.00	0.0	3.568	0.001	0	0	0	2
PL.34672	PD.5042	C	#4 ACSR	7.19Y	119.8	0.00	5.18	1.52	1	11	2	98	0.00	0.0	3.644	0.076	11	2	2	2
PL.34670	PL.34669	ABC	336 MCM AC	7.19Y	119.8	0.04	5.22	112.23	22	2327	667	96	0.55	0.0	3.619	0.052	5	1	1	262
PL.34668	PL.34670	ABC	336 MCM AC	7.18Y	119.6	0.15	5.37	112.00	22	2322	664	96	1.90	0.1	3.799	0.180	0	0	0	261
PL.34201	PL.34668	ABC	336 MCM AC	7.18Y	119.6	0.00	5.37	112.00	22	2320	660	96	0.01	0.0	3.799	0.000	0	0	0	261

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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
RG.40	PL.34201	ABC	167Kkva	7.46Y	124.3	-4.66	0.71	112.00	51	2320	660	96	percent Boost=	3.75	Tap=	6.0				261
PL.36505	RG.40	ABC	336 MCM AC	7.46Y	124.3	0.03	0.74	107.80	21	2320	660	96	0.35	0.0	3.835	0.036	0	0	0	261
PL.33700	PL.36505	ABC	336 MCM AC	7.45Y	124.2	0.05	0.79	107.80	21	2319	659	96	0.65	0.0	3.902	0.067	6	1	2	261
PL.35394	PL.33700	ABC	336 MCM AC	7.45Y	124.2	0.03	0.83	107.54	21	2313	656	96	0.41	0.0	3.944	0.042	14	3	1	259
PL.35159	PL.35394	ABC	336 MCM AC	7.45Y	124.2	0.02	0.85	106.91	21	2299	652	96	0.27	0.0	3.971	0.028	0	0	0	258
PL.35160	PL.35159	ABC	336 MCM AC	7.45Y	124.1	0.03	0.87	106.47	21	2289	649	96	0.33	0.0	4.005	0.034	0	0	0	257
PL.35391	PL.35160	A	6 A (CWC)	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	4.006	0.001	0	0	0	0
PD.5706	PL.35391	A	75QA	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	4.006	0.001	0	0	0	0
PL.35392	PD.5706	A	6 A (CWC)	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	4.056	0.050	0	0	0	0
PL.35393	PL.35392	A	6 A (CWC)	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	4.610	0.553	0	0	0	0
PL.35388	PL.35160	C	6 A (CWC)	7.45Y	124.1	0.00	0.87	0.83	1	6	1	99	0.00	0.0	4.006	0.001	0	0	0	2
PD.5147	PL.35388	C	75QA	7.45Y	124.1	0.00	0.87	0.83	1	6	1	99	0.00	0.0	4.006	0.001	0	0	0	2
PL.35390	PD.5147	C	6 A (CWC)	7.45Y	124.1	0.00	0.88	0.83	1	6	1	99	0.00	0.0	4.043	0.036	6	1	2	2
PL.35161	PL.35160	ABC	336 MCM AC	7.44Y	124.0	0.11	0.99	106.20	20	2283	647	96	1.32	0.1	4.145	0.139	0	0	0	255
PL.34782	PL.35161	ABC	336 MCM AC	7.44Y	124.0	0.06	1.04	106.20	20	2281	644	96	0.69	0.0	4.217	0.073	0	0	0	255
PL.35697	PL.34782	ABC	#3/0 ACSR	7.43Y	123.9	0.05	1.10	105.66	35	2269	640	96	0.75	0.0	4.257	0.040	12	3	1	254
PL.35933	PL.35697	ABC	#3/0 ACSR	7.43Y	123.9	0.03	1.13	105.11	35	2256	636	96	0.43	0.0	4.281	0.023	7	2	1	253
PL.35696	PL.35933	ABC	#3/0 ACSR	7.43Y	123.8	0.10	1.23	104.80	35	2249	633	96	1.45	0.1	4.360	0.079	0	0	0	252
PL.35127	PL.35696	ABC	#3/0 ACSR	7.42Y	123.7	0.08	1.31	103.46	34	2219	625	96	1.05	0.0	4.418	0.058	12	3	1	249
PL.35507	PL.35127	ABC	#3/0 ACSR	7.42Y	123.7	0.04	1.35	102.89	34	2205	620	96	0.54	0.0	4.448	0.030	0	0	0	248
PL.35629	PL.35507	ABC	#3/0 ACSR	7.42Y	123.6	0.06	1.41	98.67	33	2113	598	96	0.84	0.0	4.500	0.052	0	0	0	230
PL.35638	PL.35629	ABC	#3/0 ACSR	7.41Y	123.5	0.07	1.49	98.33	33	2105	595	96	0.97	0.0	4.560	0.060	4	1	2	229
PL.34913	PL.35638	A	6 A (CWC)	7.41Y	123.5	0.00	1.49	0.71	1	5	1	98	0.00	0.0	4.561	0.002	0	0	0	1
PD.5168	PL.34913	A	75QA	7.41Y	123.5	0.00	1.49	0.71	1	5	1	98	0.00	0.0	4.561	0.002	0	0	0	1
PL.34914	PD.5168	A	6 A (CWC)	7.41Y	123.5	0.00	1.49	0.71	1	5	1	98	0.00	0.0	4.609	0.048	5	1	1	1
PL.34917	PL.35638	ABC	#3/0 ACSR	7.41Y	123.4	0.09	1.58	97.93	33	2095	592	96	1.16	0.1	4.632	0.072	12	3	4	226
PL.35421	PL.34917	ABC	#3/0 ACSR	7.40Y	123.4	0.02	1.60	97.39	32	2082	588	96	0.32	0.0	4.652	0.020	0	0	0	222
PL.58534	PL.35421	A	#2 ACSR	7.40Y	123.4	0.00	1.60	1.39	1	10	2	98	0.00	0.0	4.654	0.001	0	0	0	3
PD.8709	PL.58534	A	20T	7.40Y	123.4	0.00	1.60	1.39	0	10	2	98	0.00	0.0	4.654	0.001	0	0	0	3
PL.62555	PD.8709	A	#2 ACSR	7.40Y	123.4	0.00	1.60	1.39	1	10	2	98	0.00	0.0	4.667	0.014	0	0	0	3
PL.62552	PL.62555	A	#1/0 ACSR	7.40Y	123.4	0.00	1.60	1.33	1	10	2	98	0.00	0.0	4.687	0.020	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.62553	PL.62552	A	#1/0 ACSR	7.40Y	123.4	0.00	1.60	1.33	1	10	2	98	0.00	0.0	4.730	0.043	0	0	0	1
PL.62554	PL.62553	A	#1/0 ACSR	7.40Y	123.4	0.00	1.60	1.33	1	10	2	98	0.00	0.0	4.770	0.040	10	2	1	1
PL.62551	PL.62555	A	#2 ACSR	7.40Y	123.4	0.00	1.60	0.06	0	0	0	100	0.00	0.0	4.680	0.013	0	0	1	2
PL.34916	PL.62551	A	#2 ACSR	7.40Y	123.4	0.00	1.60	0.06	0	0	0	100	0.00	0.0	4.710	0.030	0	0	1	1
PL.34819	PL.35421	ABC	#3/0 ACSR	7.40Y	123.3	0.06	1.66	96.93	32	2072	585	96	0.81	0.0	4.703	0.051	0	0	0	219
PL.35419	PL.34819	C	6 A (CWC)	7.40Y	123.3	0.00	1.66	0.48	0	3	1	95	0.00	0.0	4.705	0.002	0	0	0	1
PD.5755	PL.35419	C	75QA	7.40Y	123.3	0.00	1.66	0.48	1	3	1	95	0.00	0.0	4.705	0.002	0	0	0	1
PL.35420	PD.5755	C	6 A (CWC)	7.40Y	123.3	0.00	1.66	0.48	0	3	1	95	0.00	0.0	4.779	0.074	3	1	1	1
PL.35418	PL.34819	ABC	#3/0 ACSR	7.39Y	123.2	0.10	1.76	96.77	32	2068	583	96	1.27	0.1	4.784	0.081	10	2	2	218
PL.35422	PL.35418	ABC	#3/0 ACSR	7.39Y	123.2	0.07	1.83	96.32	32	2057	579	96	0.84	0.0	4.838	0.054	16	4	1	216
PL.35423	PL.35422	ABC	#3/0 ACSR	7.39Y	123.2	0.01	1.84	95.60	32	2040	574	96	0.10	0.0	4.845	0.006	0	0	0	215
PL.35424	PL.35423	ABC	#3/0 ACSR	7.39Y	123.1	0.07	1.91	95.54	32	2039	573	96	0.95	0.0	4.907	0.062	0	0	0	214
PL.35425	PL.35424	ABC	#3/0 ACSR	7.39Y	123.1	0.00	1.91	95.54	32	2038	572	96	0.00	0.0	4.907	0.000	0	0	0	214
PL.35426	PL.35425	ABC	#3/0 ACSR	7.38Y	123.0	0.09	2.01	95.54	32	2038	572	96	1.20	0.1	4.985	0.078	0	0	0	214
PL.34436	PL.35426	ABC	#1/0 ACSR	7.38Y	123.0	0.01	2.02	30.31	13	654	153	97	0.05	0.0	5.004	0.019	0	0	0	70
PL.35081	PL.34436	ABC	#1/0 ACSR	7.38Y	123.0	0.00	2.02	30.31	13	653	153	97	0.01	0.0	5.007	0.002	0	0	0	70
PD.5864	PL.35081	ABC	50L	7.38Y	123.0	0.00	2.02	30.31	61	653	153	97	0.00	0.0	5.007	0.002	0	0	0	70
PL.34921	PD.5864	ABC	#1/0 ACSR	7.38Y	123.0	0.02	2.04	30.31	13	653	153	97	0.11	0.0	5.050	0.044	5	1	1	70
PL.36034	PL.34921	ABC	#1/0 ACSR	7.38Y	122.9	0.02	2.07	28.82	13	621	145	97	0.11	0.0	5.100	0.049	12	3	1	65
PL.36295	PL.36034	ABC	#1/0 ACSR	7.37Y	122.8	0.12	2.18	27.36	12	590	138	97	0.48	0.1	5.343	0.244	9	2	2	62
PL.35708	PL.36295	A	#1/0 ACSR	7.37Y	122.8	0.00	2.18	10.15	4	73	17	97	0.00	0.0	5.344	0.001	0	0	0	7
PD.5084	PL.35708	A	60QA	7.37Y	122.8	0.00	2.18	10.15	17	73	17	97	0.00	0.0	5.344	0.001	0	0	0	7
PL.35341	PD.5084	A	#1/0 ACSR	7.37Y	122.8	0.01	2.19	10.15	4	73	17	97	0.01	0.0	5.401	0.057	0	0	0	7
PL.35709	PL.35341	A	#1/0 ACSR	7.37Y	122.8	0.01	2.21	10.15	4	73	17	97	0.01	0.0	5.456	0.055	0	0	0	7
PL.34445	PL.35709	A	#2 ACSR	7.37Y	122.8	0.00	2.21	1.81	1	13	3	97	0.00	0.0	5.515	0.059	13	3	1	1
PL.57827	PL.35709	A	#2 ACSR	7.37Y	122.8	0.00	2.21	2.02	1	15	3	98	0.00	0.0	5.488	0.032	4	1	1	2
PL.57828	PL.57827	A	#1/0 ACSR	7.37Y	122.8	0.00	2.21	1.48	1	11	2	98	0.00	0.0	5.534	0.046	11	2	1	1
PL.35495	PL.35709	A	#1/0 ACSR	7.37Y	122.8	0.02	2.22	6.32	3	45	10	98	0.00	0.0	5.580	0.124	12	3	1	4
PL.34911	PL.35495	A	#1/0 ACSR	7.37Y	122.8	0.00	2.23	3.73	2	27	6	98	0.00	0.0	5.666	0.086	27	6	2	2
PL.35143	PL.35495	A	#2 ACSR	7.37Y	122.8	0.00	2.22	0.89	1	6	1	99	0.00	0.0	5.604	0.023	6	1	1	1
PL.35147	PL.36295	ABC	#1/0 ACSR	7.36Y	122.7	0.07	2.25	23.57	10	508	118	97	0.25	0.0	5.512	0.169	0	0	0	53

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35968	PL.35147	A	#1/0 ACSR	7.36Y	122.7	0.00	2.25	0.74	0	5	1	98	0.00	0.0	5.565	0.052	5	1	1	1
PL.36780	PL.35968	A	#1/0 ACSR	7.36Y	122.7	0.00	2.25	0.00	0	0	0	100	0.00	0.0	5.609	0.044	0	0	0	0
PL.35344	PL.35147	A	#4 ACSR	7.36Y	122.7	0.00	2.25	11.34	9	81	19	97	0.00	0.0	5.514	0.002	0	0	0	9
PD.5741	PL.35344	A	25T	7.36Y	122.7	0.00	2.25	11.34	0	81	19	97	0.00	0.0	5.514	0.002	0	0	0	9
PL.35345	PD.5741	A	#4 ACSR	7.36Y	122.7	0.03	2.28	11.34	9	81	19	97	0.02	0.0	5.594	0.080	32	8	3	9
PL.35791	PL.35345	A	#4 ACSR	7.36Y	122.7	0.05	2.33	6.82	5	49	11	98	0.02	0.0	5.761	0.167	10	2	2	6
PL.33712	PL.35791	A	#4 ACSR	7.36Y	122.7	0.00	2.33	3.40	3	24	6	97	0.00	0.0	5.811	0.050	24	6	3	3
PL.62787	PL.35791	A	#4 ACSR	7.36Y	122.7	0.00	2.33	2.05	2	15	3	98	0.00	0.0	5.830	0.069	15	3	1	1
PL.35342	PL.35147	A	#1/0 ACSR	7.36Y	122.7	0.00	2.25	0.65	0	5	1	98	0.00	0.0	5.514	0.002	0	0	0	1
PD.5768	PL.35342	A	40QA	7.36Y	122.7	0.00	2.25	0.65	2	5	1	98	0.00	0.0	5.514	0.002	0	0	0	1
PL.35343	PD.5768	A	#1/0 ACSR	7.36Y	122.7	0.00	2.25	0.65	0	5	1	98	0.00	0.0	5.568	0.054	5	1	1	1
PL.34075	PL.35147	ABC	#1/0 ACSR	7.36Y	122.7	0.08	2.33	19.33	8	416	97	97	0.24	0.1	5.749	0.237	0	0	0	42
PL.34689	PL.34075	C	6 A (CWC)	7.36Y	122.7	0.00	2.33	14.83	11	106	25	97	0.00	0.0	5.750	0.001	0	0	0	10
PD.5172	PL.34689	C	30QA	7.36Y	122.7	0.00	2.33	14.83	49	106	25	97	0.00	0.0	5.750	0.001	0	0	0	10
PL.34690	PD.5172	C	6 A (CWC)	7.36Y	122.6	0.06	2.39	14.83	11	106	25	97	0.04	0.0	5.842	0.092	19	4	2	10
PL.33746	PL.34690	C	6 A (CWC)	7.35Y	122.5	0.06	2.45	12.13	9	87	20	97	0.04	0.0	5.966	0.124	10	2	1	8
PL.33747	PL.33746	C	6 A (CWC)	7.35Y	122.5	0.04	2.49	9.76	7	70	16	97	0.02	0.0	6.065	0.099	15	3	2	6
PL.35772	PL.33747	C	6 A (CWC)	7.35Y	122.5	0.00	2.49	3.46	2	25	6	97	0.00	0.0	6.070	0.005	0	0	0	1
PL.36177	PL.35772	C	1/0 AL URD	7.35Y	122.5	0.00	2.49	3.46	2	25	6	97	0.00	0.0	6.070	0.001	0	0	0	1
PD.5256	PL.36177	C	40QA	7.35Y	122.5	0.00	2.49	3.46	9	25	6	97	0.00	0.0	6.070	0.001	0	0	0	1
PL.37094	PD.5256	C	1/0 AL URD	7.35Y	122.5	0.04	2.53	3.46	2	25	6	97	0.01	0.0	6.404	0.334	0	0	0	1
PL.36869	PL.37094	C	1/0 AL URD	7.35Y	122.5	0.00	2.53	3.46	2	25	6	97	0.00	0.0	6.406	0.002	25	6	1	1
PL.35917	PL.33747	C	6 A (CWC)	7.35Y	122.5	0.00	2.50	4.20	3	30	7	97	0.00	0.0	6.095	0.031	12	3	1	3
PL.35918	PL.35917	C	6 A (CWC)	7.35Y	122.5	0.00	2.50	0.00	0	0	0	100	0.00	0.0	6.191	0.096	0	0	0	0
PL.34604	PL.35917	C	#1/0 ACSR	7.35Y	122.5	0.00	2.50	2.57	1	18	4	98	0.00	0.0	6.143	0.048	18	4	2	2
PL.34492	PL.33746	C	#1/0 ACSR	7.35Y	122.5	0.00	2.45	0.99	0	7	2	96	0.00	0.0	5.990	0.024	7	2	1	1
PL.34687	PL.34075	B	#1/0 ACSR	7.36Y	122.7	0.00	2.33	43.15	19	309	72	97	0.00	0.0	5.750	0.001	0	0	0	32
PD.5083	PL.34687	B	60QA	7.36Y	122.7	0.00	2.33	43.15	72	309	72	97	0.00	0.0	5.750	0.001	0	0	0	32
PL.34688	PD.5083	B	#1/0 ACSR	7.35Y	122.6	0.09	2.42	43.15	19	309	72	97	0.19	0.1	5.843	0.093	0	0	0	32
PL.35525	PL.34688	B	6 A (CWC)	7.35Y	122.6	0.00	2.43	5.59	4	40	9	98	0.00	0.0	5.861	0.018	6	1	1	5
PL.35526	PL.35525	B	6 A (CWC)	7.35Y	122.6	0.01	2.44	4.69	3	34	8	97	0.00	0.0	5.906	0.045	10	2	1	4

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.66251	PL.35526	B	#1/0 ACSR	7.35Y	122.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	5.933	0.027	0	0	0	0
PL.35524	PL.35526	B	6 A (CWC)	7.35Y	122.6	0.00	2.44	3.30	2	24	5	98	0.00	0.0	5.931	0.025	0	0	0	3
PL.35527	PL.35524	B	6 A (CWC)	7.35Y	122.6	0.00	2.44	2.92	2	21	5	97	0.00	0.0	5.946	0.016	12	3	1	2
PL.35528	PL.35527	B	6 A (CWC)	7.35Y	122.6	0.00	2.44	1.18	1	8	2	97	0.00	0.0	5.959	0.012	8	2	1	1
PL.35920	PL.35524	B	6 A (CWC)	7.35Y	122.6	0.00	2.44	0.38	0	3	1	95	0.00	0.0	6.078	0.147	3	1	1	1
PL.35508	PL.34688	B	6 A (CWC)	7.35Y	122.6	0.01	2.43	5.64	4	40	9	98	0.00	0.0	5.871	0.028	13	3	1	5
PL.35491	PL.35508	B	6 A (CWC)	7.35Y	122.6	0.01	2.44	3.88	3	28	6	98	0.00	0.0	5.954	0.083	0	0	0	4
PL.56321	PL.35491	B	#1/0 ACSR	7.35Y	122.6	0.00	2.44	1.42	1	10	2	98	0.00	0.0	5.975	0.021	10	2	1	1
PL.56322	PL.35491	B	6 A (CWC)	7.35Y	122.6	0.00	2.45	2.46	2	18	4	98	0.00	0.0	5.980	0.026	0	0	1	3
PL.56323	PL.56322	B	6 A (CWC)	7.35Y	122.5	0.00	2.45	2.45	2	18	4	98	0.00	0.0	6.015	0.035	4	1	1	2
PL.56324	PL.56323	B	6 A (CWC)	7.35Y	122.5	0.01	2.46	1.92	1	14	3	98	0.00	0.0	6.105	0.091	0	0	0	1
PL.36422	PL.56324	B	6 A (CWC)	7.35Y	122.5	0.00	2.46	1.92	1	14	3	98	0.00	0.0	6.143	0.038	14	3	1	1
PL.34127	PL.34688	B	6 A (CWC)	7.35Y	122.4	0.14	2.57	31.92	23	229	53	97	0.24	0.1	5.945	0.102	17	4	1	22
PL.59125	PL.34127	B	#4 ACSR	7.35Y	122.4	0.01	2.57	2.93	2	21	5	97	0.00	0.0	6.025	0.081	21	5	3	3
PL.35318	PL.34127	B	6 A (CWC)	7.34Y	122.3	0.16	2.73	26.56	19	190	44	97	0.23	0.1	6.091	0.146	23	5	2	18
PL.36154	PL.35318	B	6 A (CWC)	7.33Y	122.2	0.06	2.79	19.37	14	138	32	97	0.06	0.0	6.160	0.069	6	1	1	13
PL.36417	PL.36154	B	6 A (CWC)	7.33Y	122.2	0.04	2.83	18.59	13	133	31	97	0.04	0.0	6.211	0.051	14	3	1	12
PL.36418	PL.36417	B	6 A (CWC)	7.33Y	122.1	0.04	2.87	16.61	12	119	27	98	0.04	0.0	6.273	0.062	19	5	1	11
PL.36419	PL.36418	B	6 A (CWC)	7.33Y	122.1	0.03	2.90	13.89	10	99	23	97	0.02	0.0	6.321	0.048	7	2	1	10
PL.36420	PL.36419	B	6 A (CWC)	7.33Y	122.1	0.01	2.91	8.46	6	60	14	97	0.00	0.0	6.354	0.033	14	3	2	6
PL.33890	PL.36420	B	6 A (CWC)	7.32Y	122.1	0.02	2.93	6.51	5	46	11	97	0.00	0.0	6.416	0.062	17	4	2	4
PL.33891	PL.33890	B	6 A (CWC)	7.32Y	122.1	0.01	2.93	4.17	3	30	7	97	0.00	0.0	6.482	0.065	30	7	2	2
PL.34132	PL.36419	B	#4 ACSR	7.33Y	122.1	0.01	2.91	4.43	3	32	7	98	0.00	0.0	6.375	0.054	13	3	1	3
PL.36423	PL.34132	B	#4 ACSR	7.33Y	122.1	0.00	2.91	2.60	2	19	4	98	0.00	0.0	6.388	0.013	0	0	0	2
PL.36421	PL.36423	B	#4 ACSR	7.33Y	122.1	0.00	2.91	2.60	2	19	4	98	0.00	0.0	6.418	0.030	19	4	2	2
PL.35621	PL.35318	B	#4 ACSR	7.34Y	122.3	0.01	2.74	3.96	3	28	7	97	0.00	0.0	6.178	0.087	28	7	3	3
PL.36296	PL.36034	A	#4 ACSR	7.38Y	122.9	0.00	2.07	2.77	2	20	5	97	0.00	0.0	5.101	0.002	0	0	0	2
PD.5691	PL.36296	A	25QA	7.38Y	122.9	0.00	2.07	2.77	11	20	5	97	0.00	0.0	5.101	0.002	0	0	0	2
PL.36297	PD.5691	A	#4 ACSR	7.38Y	122.9	0.00	2.07	2.77	2	20	5	97	0.00	0.0	5.147	0.046	13	3	1	2
PL.59914	PL.36297	A	#1/0 ACSR	7.38Y	122.9	0.00	2.07	0.96	0	7	2	96	0.00	0.0	5.179	0.032	7	2	1	1
PL.34922	PL.34921	A	#1/0 ACSR	7.38Y	123.0	0.00	2.04	3.77	2	27	6	98	0.00	0.0	5.051	0.001	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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.5255	PL.34922	A	40QA	7.38Y	123.0	0.00	2.04	3.77	9	27	6	98	0.00	0.0	5.051	0.001	0	0	0	4
PL.34925	PD.5255	A	#1/0 ACSR	7.38Y	123.0	0.00	2.04	3.77	2	27	6	98	0.00	0.0	5.095	0.043	27	6	4	4
PL.35552	PL.35426	ABC	#3/0 ACSR	7.38Y	123.0	0.01	2.01	65.27	22	1383	418	96	0.06	0.0	4.994	0.009	22	5	2	144
PL.35553	PL.35552	C	6 A (CWC)	7.38Y	123.0	0.00	2.01	2.61	2	19	4	98	0.00	0.0	4.996	0.002	0	0	0	4
PD.5164	PL.35553	C	75QA	7.38Y	123.0	0.00	2.01	2.61	3	19	4	98	0.00	0.0	4.996	0.002	0	0	0	4
PL.35554	PD.5164	C	6 A (CWC)	7.38Y	123.0	0.00	2.02	2.61	2	19	4	98	0.00	0.0	5.055	0.059	19	4	4	4
PL.35053	PL.35552	ABC	#3/0 ACSR	7.38Y	122.9	0.05	2.06	63.38	21	1342	408	96	0.42	0.0	5.056	0.062	3	1	1	138
PL.35054	PL.35053	ABC	#3/0 ACSR	7.38Y	122.9	0.01	2.08	63.23	21	1339	407	96	0.11	0.0	5.073	0.017	33	8	3	137
PL.35942	PL.35054	ABC	#1/0 ACSR	7.38Y	122.9	0.01	2.08	6.49	3	134	52	93	0.01	0.0	5.119	0.046	0	0	0	9
PL.35943	PL.35942	ABC	#1/0 ACSR	7.37Y	122.9	0.01	2.09	6.49	3	134	52	93	0.01	0.0	5.166	0.048	0	0	0	9
PL.34901	PL.35943	ABC	#1/0 ACSR	7.37Y	122.9	0.00	2.09	1.06	0	23	5	98	0.00	0.0	5.182	0.016	23	5	1	1
PL.34785	PL.35943	ABC	#1/0 ACSR	7.37Y	122.9	0.00	2.09	5.44	2	111	47	92	0.00	0.0	5.219	0.053	56	27	1	8
PL.35496	PL.34785	ABC	#1/0 ACSR	7.37Y	122.9	0.00	2.09	2.63	1	55	19	95	0.00	0.0	5.253	0.034	55	19	7	7
PL.34073	PL.35054	ABC	#3/0 ACSR	7.37Y	122.9	0.04	2.12	55.25	18	1172	347	96	0.30	0.0	5.131	0.058	23	5	2	125
PL.35321	PL.34073	ABC	#1/0 ACSR	7.37Y	122.9	0.01	2.13	30.74	13	656	177	97	0.07	0.0	5.158	0.027	14	3	1	75
PL.35556	PL.35321	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.16	29.26	13	624	170	96	0.11	0.0	5.205	0.047	0	0	0	73
PL.35560	PL.35556	A	6 A (CWC)	7.37Y	122.8	0.00	2.16	4.89	3	35	8	97	0.00	0.0	5.207	0.001	0	0	0	3
PD.5131	PL.35560	A	75QA	7.37Y	122.8	0.00	2.16	4.89	7	35	8	97	0.00	0.0	5.207	0.001	0	0	0	3
PL.35561	PD.5131	A	6 A (CWC)	7.37Y	122.8	0.00	2.16	4.89	3	35	8	97	0.00	0.0	5.222	0.015	35	8	3	3
PL.35557	PL.35556	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.17	27.63	12	589	162	96	0.05	0.0	5.230	0.025	0	0	0	70
PL.34700	PL.35557	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.17	27.63	12	589	162	96	0.00	0.0	5.232	0.001	0	0	0	70
PD.5855	PL.34700	ABC	70L	7.37Y	122.8	0.00	2.17	27.63	39	589	162	96	0.00	0.0	5.232	0.001	0	0	0	70
PL.36708	PD.5855	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.19	27.63	12	589	162	96	0.08	0.0	5.271	0.039	0	0	0	70
PL.56636	PL.36708	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.21	24.96	11	531	148	96	0.08	0.0	5.321	0.050	0	0	0	65
PD.8323	PL.56636	ABC	40QA	7.37Y	122.8	0.00	2.21	24.96	62	531	148	96	0.00	0.0	5.321	0.050	0	0	0	65
PL.56637	PD.8323	ABC	#1/0 ACSR	7.37Y	122.8	0.00	2.21	24.96	11	531	148	96	0.01	0.0	5.324	0.003	9	2	2	65
PL.34915	PL.56637	ABC	#1/0 ACSR	7.37Y	122.8	0.02	2.23	24.54	11	522	146	96	0.07	0.0	5.369	0.045	15	3	1	63
PL.62103	PL.34915	B	#4 ACSR	7.37Y	122.8	0.00	2.23	5.77	4	41	10	97	0.00	0.0	5.372	0.003	0	0	0	8
PD.9366	PL.62103	B	20T	7.37Y	122.8	0.00	2.23	5.77	0	41	10	97	0.00	0.0	5.372	0.003	0	0	0	8
PL.62104	PD.9366	B	#4 ACSR	7.36Y	122.7	0.02	2.25	5.77	4	41	10	97	0.01	0.0	5.441	0.069	0	0	1	8
PL.34946	PL.62104	B	#4 ACSR	7.36Y	122.7	0.01	2.26	1.37	1	10	2	98	0.00	0.0	5.670	0.230	10	2	3	3

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36008	PL.62104	B	#4 ACSR	7.36Y	122.7	0.00	2.26	4.39	3	32	7	98	0.00	0.0	5.487	0.046	32	7	4	4
PL.57496	PL.34915	B	#2 ACSR	7.37Y	122.8	0.00	2.24	11.55	7	83	19	97	0.00	0.0	5.374	0.004	0	0	0	8
PD.8503	PL.57496	B	20T	7.37Y	122.8	0.00	2.24	11.55	0	83	19	97	0.00	0.0	5.374	0.004	0	0	0	8
PL.57497	PD.8503	B	#2 ACSR	7.36Y	122.7	0.02	2.25	11.55	7	83	19	97	0.01	0.0	5.416	0.043	0	0	0	8
PL.34893	PL.57497	B	#2 ACSR	7.36Y	122.7	0.00	2.25	1.80	1	13	3	97	0.00	0.0	5.453	0.037	13	3	2	2
PL.34744	PL.57497	B	#2 ACSR	7.36Y	122.7	0.02	2.27	9.76	6	70	16	97	0.01	0.0	5.477	0.061	17	4	1	6
PL.36379	PL.34744	B	#2 ACSR	7.36Y	122.7	0.01	2.27	7.32	4	53	12	98	0.00	0.0	5.523	0.046	31	7	3	5
PL.36380	PL.36379	B	#2 ACSR	7.36Y	122.7	0.00	2.28	2.99	2	21	5	97	0.00	0.0	5.557	0.034	21	5	2	2
PL.33765	PL.34915	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.25	18.09	8	383	114	96	0.05	0.0	5.428	0.059	25	6	3	46
PL.56632	PL.33765	A	#2 ACSR	7.36Y	122.7	0.00	2.25	5.07	3	36	8	98	0.00	0.0	5.431	0.003	0	0	0	3
PD.8321	PL.56632	A	20QA	7.36Y	122.7	0.00	2.25	5.07	25	36	8	98	0.00	0.0	5.431	0.003	0	0	0	3
PL.56633	PD.8321	A	#2 ACSR	7.36Y	122.7	0.00	2.26	5.07	3	36	8	98	0.00	0.0	5.472	0.040	36	8	3	3
PL.33767	PL.33765	ABC	#1/0 ACSR	7.36Y	122.7	0.03	2.28	15.19	7	321	99	96	0.06	0.0	5.525	0.097	7	2	1	39
PL.34783	PL.33767	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.29	12.97	6	273	88	95	0.02	0.0	5.564	0.039	0	0	0	34
PL.33364	PL.34783	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.29	7.42	3	159	42	97	0.00	0.0	5.594	0.030	16	4	2	25
PL.35187	PL.33364	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.30	5.72	2	123	29	97	0.01	0.0	5.682	0.087	12	3	1	22
PL.63653	PL.35187	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.30	5.17	2	111	26	97	0.00	0.0	5.721	0.039	0	0	0	21
PD.9486	PL.63653	ABC	40T	7.36Y	122.7	0.00	2.30	5.17	0	111	26	97	0.00	0.0	5.721	0.039	0	0	0	21
PL.63654	PD.9486	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.30	5.17	2	111	26	97	0.00	0.0	5.722	0.001	0	0	0	21
PL.63652	PL.63654	ABC	750 MCM AL	7.36Y	122.7	0.00	2.30	5.17	1	111	26	97	0.00	0.0	5.739	0.017	0	0	0	21
PL.63003	PL.63652	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.30	5.17	2	111	26	97	0.00	0.0	5.741	0.001	0	0	0	21
PD.9487	PL.63003	ABC	30T	7.36Y	122.7	0.00	2.30	5.17	0	111	26	97	0.00	0.0	5.741	0.001	0	0	0	21
PL.63002	PD.9487	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.31	5.17	2	111	26	97	0.00	0.0	5.752	0.011	0	0	0	21
PL.52811	PL.63002	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.31	5.17	2	111	26	97	0.01	0.0	5.838	0.086	0	0	0	21
PL.36032	PL.52811	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.32	5.17	2	111	26	97	0.00	0.0	5.891	0.053	4	1	1	21
PL.34647	PL.36032	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.33	5.00	2	108	25	97	0.01	0.0	6.007	0.116	0	0	0	20
PL.35761	PL.34647	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.34	4.22	2	91	21	97	0.01	0.0	6.135	0.128	1	0	2	18
PL.36414	PL.35761	C	#4 ACSR	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	6.148	0.013	0	0	0	0
PL.36415	PL.36414	C	#4 ACSR	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	6.202	0.055	0	0	0	0
PL.36413	PL.35761	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.34	2.98	1	64	15	97	0.00	0.0	6.195	0.060	11	3	2	14
PL.33744	PL.36413	A	#2 ACSR	7.36Y	122.7	0.00	2.34	0.59	0	4	1	97	0.00	0.0	6.196	0.001	0	0	0	1

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.5257	PL.33744	A	40QA	7.36Y	122.7	0.00	2.34	0.59	1	4	1	97	0.00	0.0	6.196	0.001	0	0	0	1
PL.33745	PD.5257	A	#2 ACSR	7.36Y	122.7	0.00	2.34	0.59	0	4	1	97	0.00	0.0	6.237	0.041	4	1	1	1
PL.36517	PL.36413	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.34	2.25	1	48	11	97	0.00	0.0	6.260	0.065	0	0	0	11
PL.36519	PL.36517	A	#1/0 ACSR	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	6.261	0.002	0	0	0	3
PD.5132	PL.36519	A	10QA	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	6.261	0.002	0	0	0	3
PL.36520	PD.5132	A	#1/0 ACSR	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	6.285	0.024	0	0	3	3
PL.36518	PL.36517	ABC	#1/0 ACSR	7.36Y	122.6	0.01	2.35	2.25	1	48	11	97	0.00	0.0	6.512	0.252	0	0	1	8
PL.62072	PL.36518	ABC	#1/0 ACSR	7.36Y	122.6	0.00	2.36	2.25	1	48	11	97	0.00	0.0	6.591	0.078	0	0	0	7
PL.63004	PL.62072	B	#4 ACSR	7.36Y	122.6	0.00	2.36	6.76	5	48	11	97	0.00	0.0	6.594	0.003	0	0	0	7
PD.9488	PL.63004	B	25T	7.36Y	122.6	0.00	2.36	6.76	0	48	11	97	0.00	0.0	6.594	0.003	0	0	0	7
PL.63005	PD.9488	B	#4 ACSR	7.36Y	122.6	0.01	2.36	6.76	5	48	11	97	0.00	0.0	6.620	0.027	14	3	1	7
PL.61786	PL.63005	B	#4 ACSR	7.36Y	122.6	0.01	2.37	4.76	4	34	8	97	0.00	0.0	6.667	0.046	0	0	0	6
PL.61784	PL.61786	B	#4 ACSR	7.36Y	122.6	0.00	2.37	0.00	0	0	0	100	0.00	0.0	6.712	0.046	0	0	0	0
PL.61785	PL.61786	B	#4 ACSR	7.36Y	122.6	0.02	2.39	4.76	4	34	8	97	0.00	0.0	6.788	0.121	18	4	3	6
PL.51828	PL.61785	B	#4 ACSR	7.36Y	122.6	0.01	2.40	2.18	2	16	4	97	0.00	0.0	6.900	0.111	0	0	0	3
PL.51829	PL.51828	B	#4 ACSR	7.36Y	122.6	0.00	2.41	2.18	2	16	4	97	0.00	0.0	6.949	0.049	0	0	0	3
PL.51983	PL.51829	B	#4 ACSR	7.36Y	122.6	0.00	2.41	2.18	2	16	4	97	0.00	0.0	6.985	0.036	11	3	2	3
PL.51984	PL.51983	B	#4 ACSR	7.36Y	122.6	0.00	2.41	0.65	1	5	1	98	0.00	0.0	7.022	0.036	0	0	0	1
PL.51830	PL.51984	B	#4 ACSR	7.36Y	122.6	0.00	2.41	0.65	1	5	1	98	0.00	0.0	7.103	0.081	5	1	1	1
PL.51831	PL.51829	B	#4 ACSR	7.36Y	122.6	0.00	2.41	0.00	0	0	0	100	0.00	0.0	7.021	0.073	0	0	0	0
PL.51832	PL.51831	B	#4 ACSR	7.36Y	122.6	0.00	2.41	0.00	0	0	0	100	0.00	0.0	7.090	0.069	0	0	0	0
PL.62073	PL.62072	C	6 A (CWC)	7.36Y	122.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	6.666	0.075	0	0	0	0
PL.36047	PL.62073	C	6 A (CWC)	7.36Y	122.6	0.00	2.36	0.00	0	0	0	100	0.00	0.0	6.724	0.058	0	0	0	0
PL.36416	PL.35761	A	#4 ACSR	7.36Y	122.7	0.00	2.34	3.53	3	25	6	97	0.00	0.0	6.160	0.025	25	6	2	2
PL.36645	PL.36416	A	#4 ACSR	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	6.198	0.038	0	0	0	0
PL.35148	PL.34647	A	#2 ACSR	7.36Y	122.7	0.00	2.33	1.14	1	8	2	97	0.00	0.0	6.040	0.033	8	2	1	1
PL.35253	PL.34647	C	#4 ACSR	7.36Y	122.7	0.00	2.33	1.21	1	9	2	98	0.00	0.0	6.074	0.067	9	2	1	1
PL.34991	PL.33364	C	6 A (CWC)	7.36Y	122.7	0.02	2.31	2.89	2	19	9	90	0.00	0.0	5.710	0.116	0	0	0	1
PL.34964	PL.34991	C	6 A (CWC)	7.36Y	122.7	0.01	2.32	2.89	2	19	9	90	0.00	0.0	5.815	0.105	0	0	0	1
PL.36184	PL.34964	C	6 A (CWC)	7.36Y	122.7	0.00	2.33	2.89	2	19	9	90	0.00	0.0	5.885	0.069	19	9	1	1
PL.34826	PL.34991	C	6 A (CWC)	7.36Y	122.7	0.00	2.31	0.00	0	0	0	100	0.00	0.0	5.746	0.036	0	0	0	0

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.34465	PL.34783	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.29	4.01	2	80	39	90	0.00	0.0	5.573	0.010	80	39	1	1
PL.34528	PL.34783	A	6 A (CWC)	7.36Y	122.7	0.01	2.30	4.79	3	34	8	97	0.00	0.0	5.630	0.067	8	2	1	8
PL.34224	PL.34528	A	6 A (CWC)	7.36Y	122.7	0.00	2.30	1.44	1	10	2	98	0.00	0.0	5.698	0.068	10	2	4	4
PL.34431	PL.34528	A	#2 ACSR	7.36Y	122.7	0.00	2.30	0.10	0	1	0	100	0.00	0.0	5.675	0.045	1	0	1	1
PL.34957	PL.34528	A	6 A (CWC)	7.36Y	122.7	0.00	2.30	2.19	2	16	4	97	0.00	0.0	5.673	0.043	16	4	2	2
PL.35185	PL.33767	A	#2 ACSR	7.36Y	122.7	0.01	2.29	5.73	3	41	10	97	0.00	0.0	5.569	0.044	0	0	0	4
PL.35186	PL.35185	A	#2 ACSR	7.36Y	122.7	0.00	2.29	1.50	1	11	2	98	0.00	0.0	5.620	0.051	11	2	1	1
PL.35770	PL.35185	A	#2 ACSR	7.36Y	122.7	0.00	2.29	4.23	2	30	7	97	0.00	0.0	5.604	0.035	30	7	3	3
PL.34894	PL.33765	C	#2 ACSR	7.36Y	122.7	0.00	2.25	0.18	0	1	0	100	0.00	0.0	5.430	0.002	0	0	0	1
PD.5690	PL.34894	C	40QA	7.36Y	122.7	0.00	2.25	0.18	0	1	0	100	0.00	0.0	5.430	0.002	0	0	0	1
PL.34895	PD.5690	C	#2 ACSR	7.36Y	122.7	0.00	2.25	0.18	0	1	0	100	0.00	0.0	5.446	0.016	1	0	1	1
PL.35531	PL.36708	C	#4 ACSR	7.37Y	122.8	0.02	2.21	8.03	6	58	13	98	0.01	0.0	5.325	0.054	10	2	1	5
PL.36134	PL.35531	C	#4 ACSR	7.37Y	122.8	0.01	2.22	6.70	5	48	11	97	0.00	0.0	5.361	0.037	21	5	2	4
PL.35797	PL.36134	C	#4 ACSR	7.37Y	122.8	0.01	2.22	3.73	3	27	6	98	0.00	0.0	5.402	0.041	11	2	1	2
PL.36473	PL.35797	C	#4 ACSR	7.37Y	122.8	0.00	2.22	2.24	2	16	4	97	0.00	0.0	5.423	0.021	16	4	1	1
PL.35162	PL.35321	A	6 A (CWC)	7.37Y	122.9	0.00	2.13	2.50	2	18	4	98	0.00	0.0	5.158	0.000	0	0	0	1
PD.5769	PL.35162	A	75QA	7.37Y	122.9	0.00	2.13	2.50	3	18	4	98	0.00	0.0	5.158	0.000	0	0	0	1
PL.35163	PD.5769	A	6 A (CWC)	7.37Y	122.9	0.00	2.13	2.50	2	18	4	98	0.00	0.0	5.180	0.021	18	4	1	1
PL.35555	PL.34073	ABC	#3/0 ACSR	7.37Y	122.9	0.02	2.14	23.47	8	493	164	95	0.06	0.0	5.193	0.062	0	0	0	48
PL.35051	PL.35555	ABC	6 A (CWC)	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	5.194	0.001	0	0	0	0
PD.5793	PL.35051	ABC	75QA	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	5.194	0.001	0	0	0	0
PL.35052	PD.5793	ABC	6 A (CWC)	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	5.246	0.052	0	0	0	0
PL.35529	PL.35555	ABC	#3/0 ACSR	7.37Y	122.9	0.01	2.14	23.47	8	492	164	95	0.02	0.0	5.219	0.026	6	1	1	48
PL.72983	PL.35529	C	#1/0 ACSR	7.37Y	122.9	0.00	2.15	2.73	1	20	5	97	0.00	0.0	5.292	0.073	0	0	1	3
PL.72984	PL.72983	C	#1/0 ACSR	7.37Y	122.8	0.00	2.15	2.73	1	20	5	97	0.00	0.0	5.321	0.029	20	5	2	2
PL.35530	PL.35529	ABC	#3/0 ACSR	7.37Y	122.8	0.03	2.17	22.27	7	466	158	95	0.08	0.0	5.320	0.101	26	6	4	44
PL.35506	PL.35530	ABC	#3/0 ACSR	7.37Y	122.8	0.02	2.19	21.07	7	440	152	95	0.05	0.0	5.390	0.069	16	4	2	38
PL.35505	PL.35506	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.20	20.34	7	425	148	94	0.02	0.0	5.422	0.032	13	3	1	36
PL.35558	PL.35505	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.21	17.32	6	359	133	94	0.02	0.0	5.470	0.049	8	2	4	31
PL.35559	PL.35558	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.23	16.95	6	351	131	94	0.03	0.0	5.528	0.058	0	0	0	27
PL.33922	PL.35559	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.24	16.95	6	351	131	94	0.03	0.0	5.582	0.054	0	0	0	27

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: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.33961	PL.33922	ABC	#3/0 ACSR	7.37Y	122.8	0.00	2.24	7.55	3	162	39	97	0.00	0.0	5.621	0.039	0	0	0	24
PL.34198	PL.33961	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.25	3.97	1	85	22	97	0.00	0.0	5.732	0.111	5	1	1	14
PL.59915	PL.34198	ABC	#3/0 ACSR	7.37Y	122.8	0.00	2.25	3.76	1	80	21	97	0.00	0.0	5.787	0.055	2	0	5	13
PL.59917	PL.59915	ABC	#4 ACSR	7.37Y	122.8	0.00	2.25	0.39	0	8	4	89	0.00	0.0	5.787	0.000	0	0	0	1
PD.5135	PL.59917	ABC	75QA	7.37Y	122.8	0.00	2.25	0.39	1	8	4	89	0.00	0.0	5.787	0.000	0	0	0	1
PL.34128	PD.5135	ABC	#4 ACSR	7.37Y	122.8	0.00	2.25	0.39	0	8	4	89	0.00	0.0	5.807	0.019	8	4	1	1
PL.59919	PL.59915	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.25	3.30	1	71	16	98	0.00	0.0	5.807	0.020	0	0	0	7
PL.59920	PL.59919	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.25	2.73	1	59	14	97	0.00	0.0	5.853	0.046	15	4	1	5
PL.59916	PL.59920	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.25	0.00	0	0	0	100	0.00	0.0	5.897	0.044	0	0	0	0
PD.5877-B	PL.59916	ABC	Open	7.36Y	122.7	0.00	2.25	0.00	0	0	0	100	0.00	0.0	5.897	0.044	0	0	0	0
PL.59918	PL.59920	A	#4 ACSR	7.36Y	122.7	0.00	2.25	6.05	5	43	10	97	0.00	0.0	5.854	0.001	0	0	0	4
PD.5071	PL.59918	A	75QA	7.36Y	122.7	0.00	2.25	6.05	8	43	10	97	0.00	0.0	5.854	0.001	0	0	0	4
PL.36381	PD.5071	A	#4 ACSR	7.36Y	122.7	0.01	2.26	6.05	5	43	10	97	0.00	0.0	5.885	0.031	10	2	1	4
PL.34367	PL.36381	A	#4 ACSR	7.36Y	122.7	0.01	2.27	4.70	4	34	8	97	0.00	0.0	5.929	0.044	12	3	1	3
PL.34366	PL.34367	A	#4 ACSR	7.36Y	122.7	0.01	2.28	3.02	2	22	5	98	0.00	0.0	6.037	0.109	12	3	1	2
PL.33824	PL.34366	A	#4 ACSR	7.36Y	122.7	0.00	2.28	1.34	1	10	2	98	0.00	0.0	6.066	0.029	10	2	1	1
PL.59921	PL.59919	C	1/0 AL URD	7.36Y	122.7	0.00	2.25	1.70	1	12	3	97	0.00	0.0	5.830	0.024	12	3	2	2
PL.36457	PL.33961	C	#4 ACSR	7.37Y	122.8	0.00	2.24	4.27	3	31	7	98	0.00	0.0	5.622	0.001	0	0	0	7
PD.5134	PL.36457	C	75QA	7.37Y	122.8	0.00	2.24	4.27	6	31	7	98	0.00	0.0	5.622	0.001	0	0	0	7
PL.36460	PD.5134	C	#4 ACSR	7.36Y	122.7	0.01	2.25	4.27	3	31	7	98	0.00	0.0	5.686	0.064	4	1	1	7
PL.35076	PL.36460	C	#4 ACSR	7.36Y	122.7	0.00	2.26	2.04	2	15	3	98	0.00	0.0	5.724	0.038	7	2	2	4
PL.35077	PL.35076	C	#4 ACSR	7.36Y	122.7	0.00	2.26	1.06	1	8	2	97	0.00	0.0	5.778	0.055	8	2	2	2
PL.34602	PL.36460	C	#4 ACSR	7.36Y	122.7	0.00	2.25	1.73	1	12	3	97	0.00	0.0	5.701	0.015	12	3	2	2
PL.36455	PL.33961	A	#4 ACSR	7.37Y	122.8	0.00	2.24	6.47	5	46	11	97	0.00	0.0	5.622	0.001	0	0	0	3
PD.5248	PL.36455	A	75QA	7.37Y	122.8	0.00	2.24	6.47	9	46	11	97	0.00	0.0	5.622	0.001	0	0	0	3
PL.36456	PD.5248	A	#4 ACSR	7.36Y	122.7	0.01	2.25	6.47	5	46	11	97	0.00	0.0	5.673	0.051	27	6	2	3
PL.61992	PL.36456	A	1/0 AL URD	7.36Y	122.7	0.01	2.26	2.69	2	19	4	98	0.00	0.0	5.741	0.069	0	0	0	1
PL.61993	PL.61992	A	1/0 AL URD	7.36Y	122.7	0.00	2.26	2.69	2	19	4	98	0.00	0.0	5.817	0.076	19	4	1	1
PL.34608	PL.33922	ABC	#4/0 ACSR	7.37Y	122.8	0.00	2.24	9.50	3	189	91	90	0.00	0.0	5.584	0.002	0	0	0	3
PD.5815	PL.34608	ABC	75QA	7.37Y	122.8	0.00	2.24	9.50	13	189	91	90	0.00	0.0	5.584	0.002	0	0	0	3
PL.34609	PD.5815	ABC	#4/0 ACSR	7.37Y	122.8	0.01	2.25	9.50	3	189	91	90	0.01	0.0	5.673	0.089	0	0	0	3

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35078	PL.34609	ABC	#4/0 ACSR	7.36Y	122.7	0.00	2.25	7.48	2	149	72	90	0.00	0.0	5.729	0.057	149	72	2	2
PL.34758	PL.34609	ABC	#4/0 ACSR	7.37Y	122.8	0.00	2.25	2.02	1	40	19	90	0.00	0.0	5.680	0.008	40	19	1	1
PL.34918	PL.35505	C	#4 ACSR	7.37Y	122.8	0.00	2.20	7.24	6	52	12	97	0.00	0.0	5.422	0.000	0	0	0	4
PD.5169	PL.34918	C	75QA	7.37Y	122.8	0.00	2.20	7.24	10	52	12	97	0.00	0.0	5.422	0.000	0	0	0	4
PL.59119	PD.5169	C	#4 ACSR	7.37Y	122.8	0.01	2.21	7.24	6	52	12	97	0.00	0.0	5.472	0.050	38	9	3	4
PL.59120	PL.59119	C	#4 ACSR	7.37Y	122.8	0.00	2.21	1.98	2	14	3	98	0.00	0.0	5.507	0.035	14	3	1	1
PL.33748	PL.35530	A	#4 ACSR	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	5.322	0.002	0	0	0	2
PD.5085	PL.33748	A	75QA	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	5.322	0.002	0	0	0	2
PL.33749	PD.5085	A	#4 ACSR	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	5.382	0.060	0	0	2	2
CP.53	PL.35425	ABC	Cap (300)	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	4.907	0.060	0	0	0	0
PL.72981	PL.35423	C	#2 ACSR	7.39Y	123.2	0.00	1.84	0.16	0	1	0	100	0.00	0.0	4.847	0.003	0	0	0	1
PD.11216	PL.72981	C	T	7.39Y	123.2	0.00	1.84	0.16	0	1	0	100	0.00	0.0	4.847	0.003	0	0	0	1
PL.72982	PD.11216	C	#2 ACSR	7.39Y	123.2	0.00	1.84	0.16	0	1	0	100	0.00	0.0	4.864	0.016	1	0	1	1
PL.35636	PL.35629	C	#2 ACSR	7.42Y	123.6	0.00	1.41	1.02	1	7	2	96	0.00	0.0	4.501	0.001	0	0	0	1
PD.5740	PL.35636	C	60QA	7.42Y	123.6	0.00	1.41	1.02	2	7	2	96	0.00	0.0	4.501	0.001	0	0	0	1
PL.35637	PD.5740	C	#2 ACSR	7.42Y	123.6	0.00	1.41	1.02	1	7	2	96	0.00	0.0	4.567	0.066	7	2	1	1
PL.34428	PL.35507	A	#1/0 ACSR	7.42Y	123.7	0.00	1.35	2.84	1	21	5	97	0.00	0.0	4.491	0.042	21	5	1	1
PL.56333	PL.35507	ABC	#4 ACSR	7.42Y	123.7	0.00	1.35	3.27	3	71	16	98	0.00	0.0	4.456	0.007	14	3	3	17
PL.56332	PL.56333	ABC	#4 ACSR	7.42Y	123.6	0.02	1.36	2.63	2	57	13	97	0.01	0.0	4.615	0.159	0	0	0	14
PL.35683	PL.56332	ABC	#4 ACSR	7.42Y	123.6	0.00	1.36	0.00	0	0	0	100	0.00	0.0	4.672	0.057	0	0	0	0
PD.5878-B	PL.35683	ABC	Open	7.42Y	123.6	0.00	1.36	0.00	0	0	0	100	0.00	0.0	4.672	0.057	0	0	0	0
PL.35684	PL.56332	C	6 A (CWC)	7.42Y	123.6	0.02	1.39	7.90	6	57	13	97	0.01	0.0	4.689	0.074	17	4	4	14
PL.62549	PL.35684	C	6 A (CWC)	7.42Y	123.6	0.01	1.39	5.60	4	40	9	98	0.00	0.0	4.717	0.028	2	0	1	10
PL.62550	PL.62549	C	#1/0 ACSR	7.42Y	123.6	0.00	1.40	5.31	2	38	9	97	0.00	0.0	4.738	0.022	27	6	7	9
PL.35924	PL.62550	C	6 A (CWC)	7.42Y	123.6	0.00	1.40	1.59	1	11	3	96	0.00	0.0	4.765	0.027	11	3	2	2
PL.34980	PL.56332	B	6 A (CWC)	7.42Y	123.6	0.00	1.36	0.00	0	0	0	100	0.00	0.0	4.698	0.083	0	0	0	0
PL.34352	PL.35696	A	6 A (CWC)	7.43Y	123.8	0.00	1.23	2.51	2	18	4	98	0.00	0.0	4.360	0.000	0	0	0	2
PD.5167	PL.34352	A	75QA	7.43Y	123.8	0.00	1.23	2.51	3	18	4	98	0.00	0.0	4.360	0.000	0	0	0	2
PL.34353	PD.5167	A	6 A (CWC)	7.43Y	123.8	0.00	1.23	2.51	2	18	4	98	0.00	0.0	4.378	0.018	18	4	2	2
PL.34354	PL.35696	C	6 A (CWC)	7.43Y	123.8	0.00	1.23	1.52	1	11	3	96	0.00	0.0	4.360	0.001	0	0	0	1
PD.5707	PL.34354	C	75QA	7.43Y	123.8	0.00	1.23	1.52	2	11	3	96	0.00	0.0	4.360	0.001	0	0	0	1

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34355	PD.5707	C	6 A (CWC)	7.43Y	123.8	0.00	1.24	1.52	1	11	3	96	0.00	0.0	4.492	0.132	11	3	1	1
PL.36506	PL.34782	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	1.62	1	12	3	97	0.00	0.0	4.218	0.001	0	0	0	1
PD.5166	PL.36506	C	75QA	7.44Y	124.0	0.00	1.04	1.62	2	12	3	97	0.00	0.0	4.218	0.001	0	0	0	1
PL.36336	PD.5166	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	1.62	1	12	3	97	0.00	0.0	4.252	0.033	12	3	1	1
PL.33702	PL.36336	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	4.288	0.036	0	0	0	0
PL.33521	PL.33702	C	#4 ACSR	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	4.289	0.001	0	0	0	0
PL.36016	PL.35161	ABC	#3/0 ACSR	7.44Y	124.0	0.00	0.99	0.00	0	0	0	100	0.00	0.0	4.195	0.050	0	0	0	0
PD.5868-B	PL.36016	ABC	Open	7.44Y	124.0	0.00	0.99	0.00	0	0	0	100	0.00	0.0	4.195	0.050	0	0	0	0
PL.34843	PL.35159	C	#4 ACSR	7.45Y	124.2	0.00	0.85	1.33	1	10	2	98	0.00	0.0	3.972	0.001	0	0	0	1
PD.5165	PL.34843	C	75QA	7.45Y	124.2	0.00	0.85	1.33	2	10	2	98	0.00	0.0	3.972	0.001	0	0	0	1
PL.34844	PD.5165	C	#4 ACSR	7.45Y	124.2	0.00	0.85	1.33	1	10	2	98	0.00	0.0	4.042	0.070	10	2	1	1
PL.36616	PL.36479	A	6 A (CWC)	7.19Y	119.9	0.00	5.12	2.21	2	15	4	97	0.00	0.0	3.497	0.000	0	0	0	4
PD.5041	PL.36616	A	75QA	7.19Y	119.9	0.00	5.12	2.21	3	15	4	97	0.00	0.0	3.497	0.000	0	0	0	4
PL.36617	PD.5041	A	6 A (CWC)	7.19Y	119.9	0.01	5.12	2.21	2	15	4	97	0.00	0.0	3.576	0.078	10	2	2	4
PL.36771	PL.36617	A	6 A (CWC)	7.19Y	119.9	0.00	5.12	0.75	1	5	1	98	0.00	0.0	3.603	0.028	1	0	1	2
PL.36713	PL.36771	A	6 A (CWC)	7.19Y	119.9	0.00	5.12	0.67	0	5	1	98	0.00	0.0	3.623	0.020	5	1	1	1
PL.52037	PL.33377	C	6 A (CWC)	7.20Y	120.0	0.00	5.04	2.08	1	15	3	98	0.00	0.0	3.414	0.001	0	0	0	2
PD.8000	PL.52037	C	40QA	7.20Y	120.0	0.00	5.04	2.08	5	15	3	98	0.00	0.0	3.414	0.001	0	0	0	2
PL.52038	PD.8000	C	6 A (CWC)	7.20Y	120.0	0.00	5.05	2.08	1	15	3	98	0.00	0.0	3.451	0.037	15	3	2	2
PL.35395	PL.33377	ABC	#1/0 ACSR	7.20Y	120.0	0.00	5.05	1.03	0	22	5	98	0.00	0.0	3.580	0.166	0	0	0	2
PL.59691	PL.35395	ABC	#1/0 ACSR	7.20Y	120.0	0.00	5.05	0.00	0	0	0	100	0.00	0.0	3.599	0.019	0	0	0	0
PL.35396	PL.35395	A	#4 ACSR	7.20Y	120.0	0.00	5.05	3.08	2	22	5	98	0.00	0.0	3.581	0.002	0	0	0	2
PD.5210	PL.35396	A	75QA	7.20Y	120.0	0.00	5.05	3.08	4	22	5	98	0.00	0.0	3.581	0.002	0	0	0	2
PL.35397	PD.5210	A	#4 ACSR	7.20Y	119.9	0.01	5.06	3.08	2	22	5	98	0.00	0.0	3.730	0.148	22	5	2	2
PL.34542	PL.52034	ABC	#1/0 ACSR	7.20Y	120.0	0.04	5.01	27.29	12	574	134	97	0.16	0.0	3.412	0.082	0	0	0	57
PL.35991	PL.34542	ABC	#1/0 ACSR	7.20Y	120.0	0.00	5.01	27.29	12	574	133	97	0.00	0.0	3.414	0.001	0	0	0	57
PD.5780	PL.35991	ABC	50L	7.20Y	120.0	0.00	5.01	27.29	55	574	133	97	0.00	0.0	3.414	0.001	0	0	0	57
PL.35992	PD.5780	ABC	#1/0 ACSR	7.20Y	120.0	0.03	5.04	27.29	12	574	133	97	0.11	0.0	3.471	0.057	0	0	0	57
PL.35521	PL.35992	B	#2 ACSR	7.20Y	120.0	0.00	5.04	9.30	5	65	15	97	0.00	0.0	3.484	0.013	15	3	1	5
PL.35908	PL.35521	B	#2 ACSR	7.20Y	120.0	0.00	5.05	7.19	4	50	12	97	0.00	0.0	3.504	0.020	25	6	2	4
PL.34358	PL.35908	B	#2 ACSR	7.20Y	120.0	0.00	5.05	3.65	2	26	6	97	0.00	0.0	3.553	0.048	26	6	2	2

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34357	PL.35992	ABC	#1/0 ACSR	7.20Y	119.9	0.03	5.06	24.19	11	509	118	97	0.09	0.0	3.531	0.060	0	0	0	52
PL.34434	PL.34357	ABC	#1/0 ACSR	7.20Y	119.9	0.01	5.07	4.58	2	96	22	97	0.00	0.0	3.611	0.080	10	2	1	13
PL.34297	PL.34434	B	6 A (CWC)	7.19Y	119.8	0.09	5.16	8.01	6	56	13	97	0.03	0.1	3.892	0.281	18	4	3	7
PL.35665	PL.34297	B	#2 ACSR	7.19Y	119.8	0.00	5.16	1.42	1	10	2	98	0.00	0.0	3.938	0.045	0	0	0	1
PL.34745	PL.35665	B	#2 ACSR	7.19Y	119.8	0.00	5.16	1.42	1	10	2	98	0.00	0.0	3.964	0.027	10	2	1	1
PL.34298	PL.34297	B	6 A (CWC)	7.19Y	119.8	0.01	5.16	3.98	3	28	6	98	0.00	0.0	3.924	0.032	0	0	0	3
PL.34295	PL.34298	B	#4 ACSR	7.19Y	119.8	0.00	5.17	2.76	2	19	4	98	0.00	0.0	3.986	0.062	19	4	2	2
PL.34296	PL.34298	B	6 A (CWC)	7.19Y	119.8	0.00	5.16	1.22	1	9	2	98	0.00	0.0	4.028	0.104	9	2	1	1
PL.33997	PL.34434	B	#4 ACSR	7.20Y	119.9	0.01	5.08	4.32	3	30	7	97	0.00	0.0	3.671	0.059	0	0	0	5
PL.34864	PL.33997	B	6 A (CWC)	7.20Y	119.9	0.00	5.08	0.44	0	3	1	95	0.00	0.0	3.711	0.041	3	1	1	1
PL.33865	PL.33997	B	#2 ACSR	7.20Y	119.9	0.00	5.08	0.67	0	5	1	98	0.00	0.0	3.695	0.024	5	1	1	1
PL.61982	PL.33997	B	#4 ACSR	7.19Y	119.9	0.01	5.09	3.21	2	22	5	98	0.00	0.0	3.707	0.036	0	0	0	3
PL.61981	PL.61982	B	#4 ACSR	7.19Y	119.9	0.00	5.09	0.00	0	0	0	100	0.00	0.0	3.758	0.051	0	0	0	0
PL.61983	PL.61982	B	#4 ACSR	7.19Y	119.9	0.00	5.09	3.21	2	22	5	98	0.00	0.0	3.752	0.045	13	3	2	3
PL.61984	PL.61983	B	#4 ACSR	7.19Y	119.9	0.00	5.09	1.28	1	9	2	98	0.00	0.0	3.788	0.036	9	2	1	1
PL.33732	PL.34357	ABC	#1/0 ACSR	7.19Y	119.9	0.02	5.09	19.61	9	412	96	97	0.07	0.0	3.603	0.072	11	2	2	39
PL.35398	PL.33732	ABC	#1/0 ACSR	7.19Y	119.8	0.09	5.18	19.10	8	402	93	97	0.27	0.1	3.879	0.276	0	0	0	37
PL.35399	PL.35398	ABC	#1/0 ACSR	7.19Y	119.8	0.03	5.21	16.10	7	338	78	97	0.07	0.0	3.979	0.100	0	0	0	31
PL.35302	PL.35399	B	#2 ACSR	7.19Y	119.8	0.00	5.21	0.82	0	6	1	99	0.00	0.0	3.980	0.001	0	0	0	1
PD.5848	PL.35302	B	40QA	7.19Y	119.8	0.00	5.21	0.82	2	6	1	99	0.00	0.0	3.980	0.001	0	0	0	1
PL.33982	PD.5848	B	#2 ACSR	7.19Y	119.8	0.00	5.21	0.82	0	6	1	99	0.00	0.0	4.018	0.039	6	1	1	1
PL.33983	PL.35399	B	#4 ACSR	7.19Y	119.8	0.00	5.21	3.53	3	25	6	97	0.00	0.0	3.980	0.001	0	0	0	2
PD.5097	PL.33983	B	20T	7.19Y	119.8	0.00	5.21	3.53	0	25	6	97	0.00	0.0	3.980	0.001	0	0	0	2
PL.34368	PD.5097	B	#4 ACSR	7.19Y	119.8	0.02	5.23	3.53	3	25	6	97	0.00	0.0	4.098	0.118	8	2	1	2
PL.34369	PL.34368	B	#4 ACSR	7.19Y	119.8	0.00	5.23	2.44	2	17	4	97	0.00	0.0	4.170	0.072	17	4	1	1
PL.35301	PL.35399	ABC	#1/0 ACSR	7.19Y	119.8	0.01	5.22	14.65	6	308	71	97	0.02	0.0	4.021	0.042	14	3	1	28
PL.33985	PL.35301	B	#4 ACSR	7.19Y	119.8	0.00	5.22	2.91	2	20	5	97	0.00	0.0	4.021	0.001	0	0	0	2
PD.5260	PL.33985	B	40QA	7.19Y	119.8	0.00	5.22	2.91	7	20	5	97	0.00	0.0	4.021	0.001	0	0	0	2
PL.33986	PD.5260	B	#4 ACSR	7.19Y	119.8	0.00	5.22	2.91	2	20	5	97	0.00	0.0	4.044	0.023	8	2	1	2
PL.33987	PL.33986	B	#4 ACSR	7.19Y	119.8	0.00	5.23	1.75	1	12	3	97	0.00	0.0	4.118	0.074	12	3	1	1
PL.33984	PL.35301	ABC	#1/0 ACSR	7.19Y	119.8	0.02	5.24	13.00	6	273	63	97	0.03	0.0	4.095	0.075	0	0	0	25

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.34945	PL.33984	ABC	#1/0 ACSR	7.19Y	119.8	0.01	5.25	11.42	5	240	56	97	0.01	0.0	4.136	0.041	7	2	1	22
PL.33869	PL.34945	ABC	#1/0 ACSR	7.18Y	119.7	0.01	5.26	11.11	5	233	54	97	0.02	0.0	4.188	0.052	32	7	2	21
PL.33870	PL.33869	ABC	#1/0 ACSR	7.18Y	119.7	0.01	5.27	9.57	4	201	47	97	0.01	0.0	4.250	0.062	23	5	2	19
PL.33867	PL.33870	B	#4 ACSR	7.18Y	119.7	0.00	5.27	5.42	4	38	9	97	0.00	0.0	4.252	0.003	0	0	0	2
PD.5259	PL.33867	B	40QA	7.18Y	119.7	0.00	5.27	5.42	14	38	9	97	0.00	0.0	4.252	0.003	0	0	0	2
PL.33868	PD.5259	B	#4 ACSR	7.18Y	119.7	0.01	5.27	5.42	4	38	9	97	0.00	0.0	4.292	0.040	19	4	1	2
PL.34205	PL.33868	B	#4 ACSR	7.18Y	119.7	0.00	5.27	2.72	2	19	4	98	0.00	0.0	4.312	0.020	19	4	1	1
PL.33713	PL.33870	A	1/0 AL URD	7.18Y	119.7	0.00	5.27	0.55	0	4	1	97	0.00	0.0	4.296	0.046	4	1	1	1
PL.33366	PL.33870	ABC	#1/0 ACSR	7.18Y	119.7	0.01	5.28	6.50	3	136	32	97	0.01	0.0	4.358	0.109	15	4	4	14
PL.35207	PL.33366	B	#2 ACSR	7.18Y	119.7	0.00	5.28	16.10	9	113	26	97	0.00	0.0	4.359	0.001	0	0	0	9
PD.5096	PL.35207	B	40QA	7.18Y	119.7	0.00	5.28	16.10	40	113	26	97	0.00	0.0	4.359	0.001	0	0	0	9
PL.35208	PD.5096	B	#2 ACSR	7.18Y	119.7	0.02	5.29	16.10	9	113	26	97	0.01	0.0	4.397	0.037	22	5	2	9
PL.34547	PL.35208	B	#2 ACSR	7.18Y	119.7	0.01	5.31	13.02	7	91	21	97	0.01	0.0	4.440	0.044	29	7	2	7
PL.34287	PL.34547	B	#2 ACSR	7.18Y	119.7	0.01	5.32	8.84	5	62	14	98	0.01	0.0	4.502	0.061	28	7	2	5
PL.34288	PL.34287	B	#2 ACSR	7.18Y	119.7	0.00	5.32	4.80	3	34	8	97	0.00	0.0	4.523	0.022	34	8	3	3
PL.35209	PL.33366	B	#2 ACSR	7.18Y	119.7	0.00	5.28	1.23	1	9	2	98	0.00	0.0	4.359	0.001	0	0	0	1
PD.5847	PL.35209	B	40QA	7.18Y	119.7	0.00	5.28	1.23	3	9	2	98	0.00	0.0	4.359	0.001	0	0	0	1
PL.34999	PD.5847	B	#2 ACSR	7.18Y	119.7	0.00	5.28	1.23	1	9	2	98	0.00	0.0	4.519	0.159	9	2	1	1
PL.33108	PL.33984	B	#4 ACSR	7.19Y	119.8	0.00	5.24	1.94	1	14	3	98	0.00	0.0	4.148	0.053	14	3	1	1
PL.33988	PL.33984	B	#4 ACSR	7.19Y	119.8	0.00	5.24	2.81	2	20	5	97	0.00	0.0	4.096	0.001	0	0	0	2
PD.5254	PL.33988	B	40QA	7.19Y	119.8	0.00	5.24	2.81	7	20	5	97	0.00	0.0	4.096	0.001	0	0	0	2
PL.33990	PD.5254	B	#4 ACSR	7.19Y	119.8	0.00	5.24	2.81	2	20	5	97	0.00	0.0	4.137	0.041	20	5	2	2
PL.34606	PL.35398	B	#2 ACSR	7.19Y	119.8	0.00	5.18	1.21	1	8	2	97	0.00	0.0	3.902	0.023	8	2	1	1
PL.35402	PL.35398	B	#4 ACSR	7.19Y	119.8	0.00	5.18	1.69	1	12	3	97	0.00	0.0	3.879	0.001	0	0	0	1
PD.5685	PL.35402	B	40QA	7.19Y	119.8	0.00	5.18	1.69	4	12	3	97	0.00	0.0	3.879	0.001	0	0	0	1
PL.34646	PD.5685	B	#4 ACSR	7.19Y	119.8	0.00	5.18	1.69	1	12	3	97	0.00	0.0	3.934	0.055	12	3	1	1
PL.35400	PL.35398	B	#4 ACSR	7.19Y	119.8	0.00	5.18	6.11	5	43	10	97	0.00	0.0	3.879	0.001	0	0	0	4
PD.5810	PL.35400	B	40QA	7.19Y	119.8	0.00	5.18	6.11	15	43	10	97	0.00	0.0	3.879	0.001	0	0	0	4
PL.33111	PD.5810	B	#4 ACSR	7.19Y	119.8	0.02	5.20	6.11	5	43	10	97	0.00	0.0	4.007	0.128	35	8	3	4
PL.35773	PL.33111	B	#4 ACSR	7.19Y	119.8	0.00	5.20	1.13	1	8	2	97	0.00	0.0	4.035	0.028	0	0	0	1
PL.35774	PL.35773	B	#4 ACSR	7.19Y	119.8	0.00	5.21	1.13	1	8	2	97	0.00	0.0	4.099	0.064	8	2	1	1

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.35512	PL.51545	C	#4 ACSR	7.22Y	120.3	0.00	4.67	2.78	2	20	5	97	0.00	0.0	3.054	0.002	0	0	0	3
PD.5020	PL.35512	C	75QA	7.22Y	120.3	0.00	4.67	2.78	4	20	5	97	0.00	0.0	3.054	0.002	0	0	0	3
PL.35513	PD.5020	C	#4 ACSR	7.22Y	120.3	0.00	4.67	2.78	2	20	5	97	0.00	0.0	3.098	0.044	20	5	3	3
PL.59951	PL.51543	C	6 A (CWC)	7.23Y	120.5	0.00	4.46	6.08	4	43	10	97	0.00	0.0	2.880	0.004	0	0	0	6
PD.8902	PL.59951	C	40QA	7.23Y	120.5	0.00	4.46	6.08	15	43	10	97	0.00	0.0	2.880	0.004	0	0	0	6
PL.59952	PD.8902	C	6 A (CWC)	7.23Y	120.5	0.01	4.47	6.08	4	43	10	97	0.00	0.0	2.926	0.046	8	2	1	6
PL.59949	PL.59952	C	6 A (CWC)	7.23Y	120.5	0.01	4.48	4.96	4	35	8	97	0.00	0.0	2.966	0.040	8	2	3	5
PL.35517	PL.59949	C	6 A (CWC)	7.23Y	120.5	0.00	4.48	3.82	3	27	6	98	0.00	0.0	3.002	0.036	27	6	2	2
PL.51540	PL.56760	C	#2 ACSR	7.24Y	120.7	0.00	4.32	5.45	3	38	9	97	0.00	0.0	2.766	0.001	0	0	0	5
PD.5129	PL.51540	C	40QA	7.24Y	120.7	0.00	4.32	5.45	14	38	9	97	0.00	0.0	2.766	0.001	0	0	0	5
PL.35700	PD.5129	C	#2 ACSR	7.24Y	120.7	0.01	4.33	5.45	3	38	9	97	0.00	0.0	2.801	0.035	0	0	0	5
PL.34611	PL.35700	C	#2 ACSR	7.24Y	120.7	0.00	4.33	5.45	3	38	9	97	0.00	0.0	2.834	0.033	38	9	5	5
PL.34195	PL.35700	C	#2 ACSR	7.24Y	120.7	0.00	4.33	0.00	0	0	0	100	0.00	0.0	2.839	0.038	0	0	0	0
PL.51541	PL.56760	A	6 A (CWC)	7.24Y	120.7	0.00	4.32	11.98	9	85	20	97	0.00	0.0	2.766	0.001	0	0	0	12
PD.5068	PL.51541	A	75QA	7.24Y	120.7	0.00	4.32	11.98	16	85	20	97	0.00	0.0	2.766	0.001	0	0	0	12
PL.36199	PD.5068	A	6 A (CWC)	7.24Y	120.7	0.03	4.35	11.98	9	85	20	97	0.02	0.0	2.832	0.066	34	8	4	12
PL.37171	PL.36199	A	6 A (CWC)	7.24Y	120.6	0.01	4.36	2.72	2	19	4	98	0.00	0.0	2.937	0.105	0	0	0	5
PL.34756	PL.37171	A	6 A (CWC)	7.24Y	120.6	0.00	4.36	0.00	0	0	0	100	0.00	0.0	3.025	0.089	0	0	0	0
PL.37172	PL.37171	A	6 A (CWC)	7.24Y	120.6	0.00	4.37	2.72	2	19	4	98	0.00	0.0	2.979	0.042	9	2	2	5
PL.35520	PL.37172	A	6 A (CWC)	7.24Y	120.6	0.00	4.37	1.48	1	10	2	98	0.00	0.0	2.999	0.020	10	2	3	3
PL.34984	PL.36199	A	#4 ACSR	7.24Y	120.6	0.01	4.35	4.43	3	31	7	98	0.00	0.0	2.887	0.055	31	7	3	3
CP.85	PL.56761	ABC	Cap (350)	7.24Y	120.7	0.00	4.28	0.00	0	0	0	100	0.00	0.0	2.731	0.055	0	0	0	0
PL.51539	PL.51538	ABC	#4 ACSR	7.25Y	120.9	0.00	4.14	1.73	1	37	8	98	0.00	0.0	2.730	0.063	0	0	1	5
PL.35112	PL.51539	ABC	#4 ACSR	7.25Y	120.9	0.00	4.14	0.00	0	0	0	100	0.00	0.0	2.834	0.104	0	0	0	0
PL.35114	PL.51539	C	#4 ACSR	7.25Y	120.9	0.01	4.14	5.19	4	37	8	98	0.00	0.0	2.762	0.032	10	2	1	4
PL.35292	PL.35114	C	#4 ACSR	7.25Y	120.9	0.00	4.15	3.76	3	27	6	98	0.00	0.0	2.804	0.042	18	4	2	3
PL.35293	PL.35292	C	#4 ACSR	7.25Y	120.8	0.00	4.15	1.16	1	8	2	97	0.00	0.0	2.826	0.023	0	0	0	1
PL.35111	PL.35293	C	#4 ACSR	7.25Y	120.8	0.00	4.15	1.16	1	8	2	97	0.00	0.0	2.880	0.053	8	2	1	1
PL.36470	PL.33989	C	6 A (CWC)	7.26Y	121.0	0.00	4.03	4.63	3	33	8	97	0.00	0.0	2.590	0.000	0	0	0	4
PD.5170	PL.36470	C	25T	7.26Y	121.0	0.00	4.03	4.63	0	33	8	97	0.00	0.0	2.590	0.000	0	0	0	4
PL.34442	PD.5170	C	6 A (CWC)	7.26Y	121.0	0.01	4.04	4.63	3	33	8	97	0.00	0.0	2.626	0.036	12	3	1	4

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

Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.33556	PL.34442	C	6 A (CWC)	7.26Y	121.0	0.00	4.04	2.95	2	21	5	97	0.00	0.0	2.698	0.072	21	5	3	3
PL.35169	PL.33989	A	#4 ACSR	7.26Y	121.0	0.00	4.03	0.95	1	7	2	96	0.00	0.0	2.590	0.000	0	0	0	1
PD.5836	PL.35169	A	25T	7.26Y	121.0	0.00	4.03	0.95	0	7	2	96	0.00	0.0	2.590	0.000	0	0	0	1
PL.36469	PD.5836	A	#4 ACSR	7.26Y	121.0	0.00	4.03	0.95	1	7	2	96	0.00	0.0	2.628	0.039	7	2	1	1
PL.56340	PL.56338	C	#4 ACSR	7.27Y	121.1	0.00	3.86	3.39	3	24	6	97	0.00	0.0	2.458	0.002	0	0	0	3
PD.5247	PL.56340	C	75QA	7.27Y	121.1	0.00	3.86	3.39	5	24	6	97	0.00	0.0	2.458	0.002	0	0	0	3
PL.35922	PD.5247	C	#4 ACSR	7.27Y	121.1	0.01	3.86	3.39	3	24	6	97	0.00	0.0	2.497	0.040	3	1	1	3
PL.36471	PL.35922	C	#4 ACSR	7.27Y	121.1	0.01	3.87	2.90	2	21	5	97	0.00	0.0	2.580	0.083	14	3	1	2
PL.36472	PL.36471	C	#4 ACSR	7.27Y	121.1	0.00	3.87	0.91	1	6	1	99	0.00	0.0	2.615	0.035	6	1	1	1
PL.56337	PL.56338	C	#4 ACSR	7.27Y	121.1	0.00	3.86	0.00	0	0	0	100	0.00	0.0	2.500	0.044	0	0	1	1
PL.59969	PL.52031	A	6 A (CWC)	7.27Y	121.2	0.00	3.81	6.59	5	47	11	97	0.00	0.0	2.421	0.001	0	0	0	18
PD.8904	PL.59969	A	75QA	7.27Y	121.2	0.00	3.81	6.59	9	47	11	97	0.00	0.0	2.421	0.001	0	0	0	18
PL.59970	PD.8904	A	6 A (CWC)	7.27Y	121.2	0.02	3.82	6.59	5	47	11	97	0.01	0.0	2.472	0.051	0	0	0	18
PL.59971	PL.59970	A	6 A (CWC)	7.27Y	121.2	0.00	3.82	0.86	1	6	1	99	0.00	0.0	2.502	0.030	6	1	1	1
PL.59474	PL.59970	A	1/0 AL URD	7.27Y	121.2	0.01	3.83	5.72	3	41	9	98	0.00	0.0	2.516	0.045	0	0	0	17
PD.8905	PL.59474	A	100CodeSMo	7.27Y	121.2	0.00	3.83	5.72	0	41	9	98	0.00	0.0	2.516	0.045	0	0	0	17
PL.59475	PD.8905	A	1/0 AL URD	7.27Y	121.2	0.00	3.83	5.72	3	41	9	98	0.00	0.0	2.528	0.012	20	5	7	17
PL.59972	PL.59475	A	1/0 AL URD	7.27Y	121.2	0.00	3.83	2.83	2	20	5	97	0.00	0.0	2.554	0.025	20	5	10	10
PL.52030	PL.52029	C	6 A (CWC)	7.28Y	121.3	0.00	3.71	6.46	5	46	11	97	0.00	0.0	2.351	0.001	0	0	0	7
PD.7999	PL.52030	C	40QA	7.28Y	121.3	0.00	3.71	6.46	16	46	11	97	0.00	0.0	2.351	0.001	0	0	0	7
PL.52028	PD.7999	C	6 A (CWC)	7.28Y	121.3	0.01	3.72	6.46	5	46	11	97	0.00	0.0	2.379	0.028	0	0	0	7
PL.52027	PL.52028	C	6 A (CWC)	7.28Y	121.3	0.01	3.73	6.46	5	46	11	97	0.00	0.0	2.414	0.035	24	6	5	7
PL.52024	PL.52027	C	6 A (CWC)	7.28Y	121.3	0.00	3.73	3.08	2	22	5	98	0.00	0.0	2.439	0.025	15	3	1	2
PL.36487	PL.52024	C	6 A (CWC)	7.28Y	121.3	0.00	3.73	0.97	1	7	2	96	0.00	0.0	2.499	0.061	7	2	1	1
PL.35610	PL.34029	A	#4 ACSR	7.31Y	121.8	0.00	3.20	7.29	6	52	12	97	0.00	0.0	1.995	0.002	0	0	0	6
PD.5061	PL.35610	A	75QA	7.31Y	121.8	0.00	3.20	7.29	10	52	12	97	0.00	0.0	1.995	0.002	0	0	0	6
PL.35611	PD.5061	A	#4 ACSR	7.31Y	121.8	0.01	3.22	7.29	6	52	12	97	0.01	0.0	2.039	0.043	0	0	0	6
PL.35021	PL.35611	A	6 A (CWC)	7.31Y	121.8	0.00	3.22	1.30	1	9	2	98	0.00	0.0	2.093	0.055	9	2	1	1
PL.35441	PL.35611	A	#4 ACSR	7.31Y	121.8	0.01	3.23	5.99	5	43	10	97	0.00	0.0	2.098	0.059	27	6	3	5
PL.34226	PL.35441	A	#4 ACSR	7.31Y	121.8	0.00	3.23	2.22	2	16	4	97	0.00	0.0	2.146	0.048	16	4	2	2
PL.34228	PL.34226	A	#4 ACSR	7.31Y	121.8	0.00	3.23	0.00	0	0	0	100	0.00	0.0	2.186	0.040	0	0	0	0

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Balanced Voltage Drop Report
Source: East Bernstadt

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.36511	PL.33386	A	6 A (CWC)	7.39Y	123.1	0.00	1.91	3.57	3	26	6	97	0.00	0.0	1.169	0.001	0	0	0	3
PD.5086	PL.36511	A	75QA	7.39Y	123.1	0.00	1.91	3.57	5	26	6	97	0.00	0.0	1.169	0.001	0	0	0	3
PL.36514	PD.5086	A	6 A (CWC)	7.39Y	123.1	0.00	1.92	3.57	3	26	6	97	0.00	0.0	1.230	0.061	26	6	3	3
PL.58735	PL.58733	C	#4 ACSR	7.42Y	123.6	0.00	1.36	0.00	0	0	0	100	0.00	0.0	0.830	0.003	0	0	0	0
PD.8724	PL.58735	C	40QA	7.42Y	123.6	0.00	1.36	0.00	0	0	0	100	0.00	0.0	0.830	0.003	0	0	0	0
PL.58731	PD.8724	C	#4 ACSR	7.42Y	123.6	0.00	1.36	0.00	0	0	0	100	0.00	0.0	1.085	0.255	0	0	0	0
PL.64724	PL.58742	C	#1/0 ACSR	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	0.718	0.070	0	0	0	0

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	20184	0	0	0	0	0	707		0.00	20890	Lowest Voltage =	118.23	on Element PL.34617
KVAR	5518	0	0	0	0	0	1369			6888	Max Accm VoltD =	6.77	on Element PL.34617
											Max Elem VoltD =	1.27	on Element PL.59618