

Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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
Pine Grove 1		ABC	SRC-Pine G	7.50Y	125.0	0.00	0.00	506.41	0	10823	3562	95	0.00	0.0	0.000	0.000	0	0	0	1169
PL.62451	Pine Grove 1	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	285.51	55	6088	2051	95	0.09	0.0	0.001	0.001	0	0	0	579
PL.53022	PL.62451	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	285.51	55	6088	2051	95	0.24	0.0	0.005	0.004	0	0	0	579
----- Feeder No. 4 (Maple Grove F4) Beginning with Device PD.8071 -----																				
PD.8071	PL.53022	ABC	400VWE	7.50Y	125.0	0.00	0.01	285.51	0	6087	2051	95	0.00	0.0	0.005	0.004	0	0	0	579
PL.54148	PD.8071	ABC	336 MCM AC	7.48Y	124.7	0.26	0.27	285.51	55	6087	2051	95	7.82	0.1	0.119	0.114	15	4	2	579
PL.54189	PL.54148	ABC	336 MCM AC	7.47Y	124.5	0.19	0.45	280.26	54	5966	1999	95	5.54	0.1	0.203	0.084	13	4	1	567
PL.54190	PL.54189	ABC	336 MCM AC	7.47Y	124.4	0.10	0.56	279.65	54	5948	1983	95	3.09	0.1	0.250	0.047	0	0	0	566
PL.42473	PL.54190	A	#2 ACSR	7.47Y	124.4	0.00	0.56	1.51	1	11	3	96	0.00	0.0	0.255	0.006	0	0	0	1
PD.6649	PL.42473	A	50QA	7.47Y	124.4	0.00	0.56	1.51	3	11	3	96	0.00	0.0	0.255	0.006	0	0	0	1
PL.42781	PD.6649	A	#2 ACSR	7.47Y	124.4	0.00	0.56	1.51	1	11	3	96	0.00	0.0	0.265	0.009	11	3	1	1
PL.42782	PL.54190	A	6 A (CWC)	7.47Y	124.4	0.00	0.56	9.43	7	68	20	96	0.00	0.0	0.255	0.006	0	0	0	8
PD.6775	PL.42782	A	50QA	7.47Y	124.4	0.00	0.56	9.43	19	68	20	96	0.00	0.0	0.255	0.006	0	0	0	8
PL.42783	PD.6775	A	6 A (CWC)	7.47Y	124.4	0.01	0.57	9.43	7	68	20	96	0.00	0.0	0.269	0.013	13	4	2	8
PL.43190	PL.42783	A	6 A (CWC)	7.46Y	124.4	0.02	0.58	7.66	5	55	16	96	0.01	0.0	0.328	0.059	12	4	1	6
PL.43191	PL.43190	A	6 A (CWC)	7.46Y	124.4	0.00	0.58	1.83	1	13	4	96	0.00	0.0	0.334	0.006	0	0	0	2
PD.6685	PL.43191	A	50QA	7.46Y	124.4	0.00	0.58	1.83	4	13	4	96	0.00	0.0	0.334	0.006	0	0	0	2
PL.43192	PD.6685	A	6 A (CWC)	7.46Y	124.4	0.00	0.59	1.83	1	13	4	96	0.00	0.0	0.395	0.061	13	4	2	2
PL.43193	PL.43190	A	6 A (CWC)	7.46Y	124.4	0.01	0.60	4.14	3	30	9	96	0.00	0.0	0.407	0.078	11	3	1	3
PL.43194	PL.43193	A	6 A (CWC)	7.46Y	124.4	0.00	0.60	2.56	2	18	5	96	0.00	0.0	0.449	0.042	5	2	1	2
PL.64075	PL.43194	A	#1/0 ACSR	7.46Y	124.4	0.00	0.60	1.80	1	13	4	96	0.00	0.0	0.519	0.070	13	4	1	1
PL.43195	PL.54190	ABC	336 MCM AC	7.45Y	124.2	0.19	0.75	276.01	53	5866	1952	95	5.72	0.1	0.339	0.089	6	2	1	557
PL.54081	PL.43195	ABC	336 MCM AC	7.44Y	124.1	0.17	0.92	275.71	53	5854	1937	95	4.96	0.1	0.416	0.077	0	0	0	556
PL.54083	PL.54081	A	1/0 AL URD	7.44Y	124.1	0.00	0.92	0.94	1	7	1	99	0.00	0.0	0.560	0.144	7	2	3	3
PL.54082	PL.54081	ABC	336 MCM AC	7.44Y	124.0	0.07	0.98	275.40	53	5842	1924	95	1.93	0.0	0.447	0.030	0	0	0	553
PL.41586	PL.54082	ABC	336 MCM AC	7.43Y	123.8	0.21	1.19	270.27	52	5730	1888	95	5.98	0.1	0.544	0.097	0	0	0	538
PL.42803	PL.41586	A	#2 ACSR	7.43Y	123.8	0.00	1.19	3.02	2	22	6	96	0.00	0.0	0.549	0.006	0	0	0	2
PD.6651	PL.42803	A	50QA	7.43Y	123.8	0.00	1.19	3.02	6	22	6	96	0.00	0.0	0.549	0.006	0	0	0	2
PL.42804	PD.6651	A	#2 ACSR	7.43Y	123.8	0.00	1.19	3.02	2	22	6	96	0.00	0.0	0.560	0.011	0	0	0	2
PL.42266	PL.42804	A	#2 ACSR	7.43Y	123.8	0.00	1.19	3.02	2	22	6	96	0.00	0.0	0.574	0.014	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

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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.54092	PL.42266	A	#2 ACSR	7.43Y	123.8	0.01	1.20	3.02	2	22	6	96	0.00	0.0	0.681	0.106	0	0	0	2
PL.60853	PL.54092	A	#2 ACSR	7.43Y	123.8	0.00	1.21	3.02	2	22	6	96	0.00	0.0	0.706	0.025	12	3	1	2
PL.60854	PL.60853	A	#2 ACSR	7.43Y	123.8	0.00	1.21	1.41	1	10	3	96	0.00	0.0	0.871	0.165	10	3	1	1
PL.60855	PL.60853	A	#2 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	0.735	0.029	0	0	0	0
PL.42805	PL.41586	ABC	336 MCM AC	7.41Y	123.4	0.38	1.57	269.27	52	5703	1867	95	11.06	0.2	0.725	0.181	0	0	0	536
PL.42806	PL.42805	C	#4 ACSR	7.41Y	123.4	0.00	1.57	2.29	2	16	5	95	0.00	0.0	0.730	0.006	0	0	0	2
PD.6652	PL.42806	C	75QA	7.41Y	123.4	0.00	1.57	2.29	3	16	5	95	0.00	0.0	0.730	0.006	0	0	0	2
PL.42807	PD.6652	C	#4 ACSR	7.41Y	123.4	0.01	1.58	2.29	2	16	5	95	0.00	0.0	0.826	0.095	6	2	1	2
PL.42808	PL.42807	C	#4 ACSR	7.41Y	123.4	0.00	1.58	1.40	1	10	3	96	0.00	0.0	0.868	0.042	10	3	1	1
PL.42809	PL.42805	ABC	336 MCM AC	7.38Y	123.0	0.41	1.99	268.50	52	5675	1837	95	12.03	0.2	0.923	0.198	0	0	0	534
PL.42810	PL.42809	ABC	336 MCM AC	7.37Y	122.8	0.18	2.17	268.50	52	5663	1809	95	5.38	0.1	1.011	0.089	0	0	0	534
PL.41570	PL.42810	C	#4 ACSR	7.37Y	122.8	0.03	2.20	4.86	4	34	10	96	0.00	0.0	1.253	0.242	34	10	1	1
PL.42811	PL.42810	ABC	336 MCM AC	7.36Y	122.7	0.17	2.34	266.44	51	5614	1783	95	4.81	0.1	1.092	0.081	13	4	1	532
PL.42812	PL.42811	ABC	336 MCM AC	7.35Y	122.6	0.10	2.44	265.84	51	5597	1768	95	2.79	0.0	1.139	0.047	0	0	0	531
PL.42814	PL.42812	ABC	336 MCM AC	7.33Y	122.2	0.40	2.83	205.49	40	4316	1388	95	8.81	0.2	1.387	0.249	16	5	1	379
PL.41041	PL.42814	C	#2 ACSR	7.33Y	122.2	0.00	2.83	1.76	1	12	4	95	0.00	0.0	1.409	0.022	12	4	1	1
PL.42815	PL.42814	ABC	336 MCM AC	7.32Y	122.1	0.10	2.93	204.13	39	4278	1359	95	2.18	0.1	1.450	0.062	16	5	5	377
PL.42813	PL.42815	ABC	336 MCM AC	7.32Y	122.0	0.06	2.99	203.38	39	4260	1350	95	1.32	0.0	1.487	0.038	18	5	2	372
PL.42816	PL.42813	ABC	336 MCM AC	7.32Y	121.9	0.08	3.08	202.55	39	4241	1341	95	1.87	0.0	1.542	0.054	32	9	3	370
PL.42817	PL.42816	C	#4 ACSR	7.32Y	121.9	0.00	3.08	3.70	3	26	8	96	0.00	0.0	1.547	0.006	0	0	0	3
PD.6756	PL.42817	C	60QA	7.32Y	121.9	0.00	3.08	3.70	6	26	8	96	0.00	0.0	1.547	0.006	0	0	0	3
PL.54359	PD.6756	C	#4 ACSR	7.32Y	121.9	0.00	3.08	3.70	3	26	8	96	0.00	0.0	1.604	0.057	26	8	3	3
PL.54360	PL.54359	C	#4 ACSR	7.32Y	121.9	0.00	3.08	0.00	0	0	0	100	0.00	0.0	1.682	0.077	0	0	0	0
PL.42818	PL.42816	ABC	336 MCM AC	7.31Y	121.8	0.10	3.17	199.80	38	4182	1320	95	2.13	0.1	1.605	0.064	21	6	3	364
PL.42819	PL.42818	ABC	336 MCM AC	7.30Y	121.7	0.08	3.26	198.46	38	4151	1307	95	1.79	0.0	1.659	0.054	10	3	1	358
PL.42822	PL.42819	A	#1/0 ACSR	7.30Y	121.7	0.00	3.26	19.48	8	137	40	96	0.00	0.0	1.665	0.006	0	0	0	10
PD.6620	PL.42822	A	60QA	7.30Y	121.7	0.00	3.26	19.48	32	137	40	96	0.00	0.0	1.665	0.006	0	0	0	10
PL.54354	PD.6620	A	#1/0 ACSR	7.30Y	121.7	0.01	3.27	19.48	8	137	40	96	0.01	0.0	1.699	0.034	20	6	2	10
PL.54353	PL.54354	A	#4 ACSR	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	1.720	0.022	0	0	1	1
PL.54356	PL.54353	A	#4 ACSR	7.30Y	121.7	0.00	3.27	0.00	0	0	0	100	0.00	0.0	1.797	0.077	0	0	0	0
PL.54355	PL.54354	A	#1/0 ACSR	7.30Y	121.7	0.02	3.30	16.59	7	116	34	96	0.02	0.0	1.770	0.071	24	7	1	7

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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.54352	PL.54355	A	#4 ACSR	7.30Y	121.7	0.01	3.31	8.24	6	58	17	96	0.01	0.0	1.808	0.038	0	0	0	4
PL.54357	PL.54352	A	#4 ACSR	7.30Y	121.7	0.01	3.32	3.63	3	25	7	96	0.00	0.0	1.879	0.071	25	7	2	2
PL.54358	PL.54352	A	#2 ACSR	7.30Y	121.7	0.00	3.31	4.62	3	32	9	96	0.00	0.0	1.824	0.017	32	9	2	2
PL.42776	PL.54355	A	#1/0 ACSR	7.30Y	121.7	0.00	3.30	4.93	2	35	10	96	0.00	0.0	1.797	0.027	35	10	2	2
PL.42777	PL.42819	ABC	336 MCM AC	7.30Y	121.7	0.05	3.31	191.48	37	4002	1260	95	1.07	0.0	1.694	0.035	0	0	1	347
PL.64456	PL.42777	A	#2 ACSR	7.30Y	121.7	0.00	3.31	1.31	1	9	3	95	0.00	0.0	1.700	0.006	0	0	0	1
PD.9542	PL.64456	A	40QA	7.30Y	121.7	0.00	3.31	1.31	3	9	3	95	0.00	0.0	1.700	0.006	0	0	0	1
PL.64457	PD.9542	A	#2 ACSR	7.30Y	121.7	0.00	3.31	1.31	1	9	3	95	0.00	0.0	1.751	0.051	9	3	1	1
PL.42778	PL.42777	B	#2 ACSR	7.30Y	121.7	0.00	3.31	1.59	1	11	3	96	0.00	0.0	1.700	0.006	0	0	0	1
PD.6514	PL.42778	B	40QA	7.30Y	121.7	0.00	3.31	1.59	4	11	3	96	0.00	0.0	1.700	0.006	0	0	0	1
PL.42779	PD.6514	B	#2 ACSR	7.30Y	121.7	0.00	3.31	1.59	1	11	3	96	0.00	0.0	1.739	0.039	11	3	1	1
PL.64454	PL.42777	ABC	336 MCM AC	7.30Y	121.7	0.00	3.31	190.51	37	3981	1251	95	0.00	0.0	1.694	0.000	0	0	0	344
PL.64455	PL.64454	ABC	336 MCM AC	7.29Y	121.5	0.20	3.51	190.51	37	3981	1251	95	4.22	0.1	1.833	0.138	15	4	1	344
PL.52989	PL.64455	ABC	336 MCM AC	7.28Y	121.4	0.11	3.62	187.31	36	3910	1222	95	2.18	0.1	1.907	0.074	25	7	3	334
PL.53391	PL.52989	ABC	336 MCM AC	7.28Y	121.3	0.09	3.70	184.24	35	3843	1198	95	1.74	0.0	1.968	0.061	0	0	0	327
PL.53392	PL.53391	C	6 A (CWC)	7.28Y	121.3	0.00	3.71	2.72	2	19	6	95	0.00	0.0	1.973	0.006	0	0	0	1
PD.6599	PL.53392	C	40QA	7.28Y	121.3	0.00	3.71	2.72	7	19	6	95	0.00	0.0	1.973	0.006	0	0	0	1
PL.52992	PD.6599	C	6 A (CWC)	7.28Y	121.3	0.00	3.71	2.72	2	19	6	95	0.00	0.0	2.002	0.029	19	6	1	1
PL.53394	PL.53391	ABC	336 MCM AC	7.27Y	121.2	0.08	3.78	183.34	35	3822	1188	95	1.53	0.0	2.022	0.055	33	10	1	326
PL.53396	PL.53394	A	#1/0 ACSR	7.27Y	121.2	0.00	3.78	11.68	5	82	24	96	0.00	0.0	2.025	0.003	0	0	0	6
PD.8097	PL.53396	A	40QA	7.27Y	121.2	0.00	3.78	11.68	29	82	24	96	0.00	0.0	2.025	0.003	0	0	0	6
PL.53397	PD.8097	A	#1/0 ACSR	7.27Y	121.2	0.01	3.80	11.68	5	82	24	96	0.01	0.0	2.087	0.062	21	6	2	6
PL.53395	PL.53397	A	#1/0 ACSR	7.27Y	121.2	0.00	3.80	8.70	4	61	18	96	0.00	0.0	2.114	0.027	28	8	2	4
PL.53393	PL.53395	A	#1/0 ACSR	7.27Y	121.2	0.00	3.80	4.72	2	33	10	96	0.00	0.0	2.151	0.037	19	5	1	2
PL.53400	PL.53393	A	#1/0 ACSR	7.27Y	121.2	0.00	3.81	2.06	1	14	4	96	0.00	0.0	2.178	0.027	14	4	1	1
PL.63741	PL.53400	A	#1/0 ACSR	7.27Y	121.2	0.00	3.81	0.00	0	0	0	100	0.00	0.0	2.178	0.000	0	0	0	0
PL.63742	PL.63741	A	#1/0 ACSR	7.27Y	121.2	0.00	3.81	0.00	0	0	0	100	0.00	0.0	2.206	0.028	0	0	0	0
PL.53399	PL.53394	ABC	336 MCM AC	7.27Y	121.2	0.07	3.85	177.88	34	3707	1152	95	1.32	0.0	2.072	0.050	25	7	2	319
PL.53402	PL.53399	ABC	336 MCM AC	7.27Y	121.1	0.06	3.91	176.71	34	3681	1141	96	1.07	0.0	2.113	0.041	13	4	1	317
PL.53404	PL.53402	C	#1/0 ACSR	7.27Y	121.1	0.00	3.91	0.00	0	0	0	100	0.00	0.0	2.126	0.013	0	0	0	0
PL.53403	PL.53402	B	#1/0 ACSR	7.27Y	121.1	0.00	3.91	6.71	3	47	14	96	0.00	0.0	2.116	0.003	0	0	0	5

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PD.8098	PL.53403	B	20QA	7.27Y	121.1	0.00	3.91	6.71	34	47	14	96	0.00	0.0	2.116	0.003	0	0	0	5
PL.57747	PD.8098	B	#1/0 ACSR	7.27Y	121.1	0.01	3.91	6.71	3	47	14	96	0.00	0.0	2.175	0.059	22	6	3	5
PL.57746	PL.57747	B	#1/0 ACSR	7.27Y	121.1	0.00	3.91	3.56	2	25	7	96	0.00	0.0	2.201	0.026	25	7	2	2
PL.53401	PL.53402	ABC	336 MCM AC	7.26Y	121.0	0.05	3.96	173.87	34	3620	1121	96	1.04	0.0	2.154	0.041	21	6	2	311
PL.53398	PL.53401	ABC	336 MCM AC	7.26Y	121.0	0.03	3.99	172.87	33	3598	1113	96	0.63	0.0	2.179	0.025	12	3	1	309
PL.52991	PL.53398	ABC	336 MCM AC	7.26Y	121.0	0.05	4.04	172.30	33	3586	1108	96	0.90	0.0	2.215	0.036	0	0	0	308
PL.60891	PL.52991	ABC	336 MCM AC	7.26Y	120.9	0.04	4.08	166.47	32	3463	1071	96	0.73	0.0	2.246	0.031	0	0	0	297
PL.60893	PL.60891	C	#1/0 ACSR	7.26Y	120.9	0.00	4.08	2.11	1	15	4	97	0.00	0.0	2.269	0.022	15	4	1	1
PL.60892	PL.60891	ABC	336 MCM AC	7.25Y	120.8	0.07	4.15	165.76	32	3447	1065	96	1.28	0.0	2.301	0.055	15	4	1	296
PL.57574	PL.60892	ABC	336 MCM AC	7.25Y	120.8	0.00	4.16	165.06	32	3431	1057	96	0.09	0.0	2.305	0.004	0	0	0	295
PD.8512-A	PL.57574	ABC	Closed	7.25Y	120.8	0.00	4.16	165.06	0	3431	1057	96	0.00	0.0	2.305	0.004	0	0	0	295
PD.8512-B	PD.8512-A	ABC	Closed	7.25Y	120.8	0.00	4.16	165.06	0	3431	1057	96	0.00	0.0	2.305	0.004	0	0	0	295
PL.59027	PD.8512-B	ABC	336 MCM AC	7.25Y	120.8	0.03	4.19	165.06	32	3431	1057	96	0.63	0.0	2.333	0.027	9	3	1	295
PL.59261	PL.59027	ABC	336 MCM AC	7.24Y	120.7	0.11	4.30	162.21	31	3371	1039	96	1.93	0.1	2.420	0.087	0	0	0	290
PD.8754-A	PL.59261	ABC	Closed	7.24Y	120.7	0.00	4.30	162.21	0	3369	1034	96	0.00	0.0	2.420	0.087	0	0	0	290
PD.8754-B	PD.8754-A	ABC	Closed	7.24Y	120.7	0.00	4.30	162.21	0	3369	1034	96	0.00	0.0	2.420	0.087	0	0	0	290
PL.59030	PD.8754-B	ABC	336 MCM AC	7.23Y	120.5	0.25	4.55	162.21	31	3369	1034	96	4.46	0.1	2.621	0.201	0	0	0	290
PL.59026	PL.59030	ABC	336 MCM AC	7.22Y	120.4	0.08	4.63	156.67	30	3249	990	96	1.35	0.0	2.686	0.065	0	0	0	276
PL.53318	PL.59026	ABC	336 MCM AC	7.22Y	120.3	0.04	4.67	151.75	29	3144	961	96	0.66	0.0	2.720	0.034	0	0	0	268
PL.53382	PL.53318	ABC	336 MCM AC	7.22Y	120.3	0.08	4.75	151.75	29	3144	960	96	1.30	0.0	2.787	0.067	0	0	0	268
PL.53322	PL.53382	ABC	336 MCM AC	7.21Y	120.2	0.03	4.77	151.75	29	3142	957	96	0.47	0.0	2.812	0.024	0	0	0	268
PL.53324	PL.53322	ABC	1/0 AL URD	7.21Y	120.2	0.00	4.77	12.48	7	261	71	96	0.00	0.0	2.814	0.003	0	0	0	21
PD.8095	PL.53324	ABC	40QA	7.21Y	120.2	0.00	4.77	12.48	31	261	71	96	0.00	0.0	2.814	0.003	0	0	0	21
PL.53334	PD.8095	ABC	1/0 AL URD	7.21Y	120.2	0.00	4.78	12.48	7	261	71	96	0.00	0.0	2.820	0.006	0	0	0	21
PL.53335	PL.53334	B	1/0 AL URD	7.21Y	120.1	0.09	4.87	22.52	13	156	44	96	0.11	0.1	2.948	0.128	0	0	0	14
PL.53336	PL.53335	B	1/0 AL URD	7.21Y	120.1	0.03	4.90	22.54	13	156	44	96	0.04	0.0	2.998	0.050	14	4	1	14
PL.53337	PL.53336	B	1/0 AL URD	7.20Y	120.1	0.03	4.93	20.53	12	142	41	96	0.03	0.0	3.040	0.042	7	2	2	13
PL.53338	PL.53337	B	1/0 AL URD	7.20Y	120.1	0.02	4.95	19.47	11	135	39	96	0.02	0.0	3.076	0.036	22	6	4	11
PL.53339	PL.53338	B	1/0 AL URD	7.20Y	120.0	0.02	4.97	16.32	10	113	32	96	0.02	0.0	3.118	0.041	13	4	1	7
PL.53340	PL.53339	B	1/0 AL URD	7.20Y	120.0	0.02	4.98	14.49	9	100	29	96	0.01	0.0	3.160	0.042	35	10	3	6
PL.53341	PL.53340	B	1/0 AL URD	7.20Y	120.0	0.01	4.99	9.38	6	65	19	96	0.00	0.0	3.194	0.034	44	13	2	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: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.53342	PL.53341	B	1/0 AL URD	7.20Y	120.0	0.00	4.99	3.08	2	21	6	96	0.00	0.0	3.231	0.037	21	6	1	1
P PL.53346	PL.53342	B	1/0 AL URD	7.20Y	120.0	0.00	4.99	-0.01	0	0	0	100	0.00	0.0	3.253	0.022	0	0	0	0 P
P PL.53348	PL.53346	B	1/0 AL URD	7.20Y	120.0	0.00	4.99	-0.00	0	0	0	100	0.00	0.0	3.257	0.004	0	0	0	0 P
PL.53343	PL.53334	ABC	1/0 AL URD	7.21Y	120.2	0.01	4.78	4.97	3	104	27	97	0.01	0.0	2.894	0.073	0	0	0	7
PL.53344	PL.53343	ABC	1/0 AL URD	7.21Y	120.2	0.01	4.79	4.98	3	104	28	97	0.01	0.0	2.985	0.092	0	0	0	7
PL.53347	PL.53344	ABC	1/0 AL URD	7.21Y	120.2	0.00	4.80	4.99	3	104	29	96	0.00	0.0	3.023	0.038	0	0	0	7
PL.53349	PL.53347	A	1/0 AL URD	7.21Y	120.2	0.01	4.81	15.01	9	104	30	96	0.01	0.0	3.055	0.032	17	5	1	7
PL.53350	PL.53349	A	1/0 AL URD	7.21Y	120.2	0.01	4.82	12.49	7	87	25	96	0.01	0.0	3.089	0.034	31	9	2	6
PL.53351	PL.53350	A	1/0 AL URD	7.21Y	120.2	0.01	4.83	7.95	5	55	15	96	0.01	0.0	3.139	0.050	0	0	0	4
PL.60896	PL.53351	A	1/0 AL URD	7.21Y	120.2	0.00	4.84	7.96	5	55	16	96	0.00	0.0	3.151	0.011	30	9	2	4
PL.60897	PL.60896	A	1/0 AL URD	7.21Y	120.2	0.00	4.84	3.68	2	26	7	97	0.00	0.0	3.193	0.043	17	5	1	2
PL.64370	PL.60897	A	1/0 AL URD	7.21Y	120.2	0.00	4.84	1.21	1	8	2	97	0.00	0.0	3.230	0.036	8	2	1	1
P PL.64371	PL.64370	A	1/0 AL URD	7.21Y	120.2	0.00	4.84	-0.01	0	0	0	100	0.00	0.0	3.248	0.018	0	0	0	0 P
P PL.53345	PL.53347	ABC	1/0 AL URD	7.21Y	120.2	0.00	4.80	-0.01	0	0	0	100	0.00	0.0	3.049	0.026	0	0	0	0 P
PL.53323	PL.53322	ABC	336 MCM AC	7.21Y	120.2	0.02	4.80	139.28	27	2881	885	96	0.38	0.0	2.835	0.023	0	0	0	247
PL.53315	PL.53323	ABC	336 MCM AC	7.21Y	120.2	0.04	4.84	139.28	27	2881	884	96	0.65	0.0	2.875	0.040	26	8	2	247
PL.53314	PL.53315	ABC	#3/0 ACSR	7.20Y	120.0	0.15	4.99	136.68	46	2826	867	96	2.65	0.1	2.960	0.085	22	6	3	243
PL.53390	PL.53314	ABC	#3/0 ACSR	7.20Y	119.9	0.07	5.06	135.63	45	2802	857	96	1.19	0.0	2.998	0.039	0	0	0	240
PL.53686	PL.53390	ABC	#3/0 ACSR	7.19Y	119.8	0.12	5.18	135.04	45	2788	851	96	2.13	0.1	3.068	0.070	32	9	3	239
PL.53685	PL.53686	ABC	#3/0 ACSR	7.18Y	119.7	0.09	5.27	132.89	44	2742	835	96	1.62	0.1	3.123	0.055	0	0	0	235
PL.43454	PL.53685	ABC	#3/0 ACSR	7.18Y	119.6	0.14	5.41	129.71	43	2674	814	96	2.35	0.1	3.206	0.083	0	0	0	227
PL.57598	PL.43454	ABC	#4 ACSR	7.17Y	119.6	0.04	5.45	13.48	10	261	126	90	0.09	0.0	3.279	0.073	0	0	0	1
PL.57599	PL.57598	ABC	#4 ACSR	7.17Y	119.5	0.00	5.45	13.48	10	261	126	90	0.00	0.0	3.291	0.012	261	126	1	1
PL.43455	PL.43454	ABC	#3/0 ACSR	7.17Y	119.5	0.12	5.53	116.41	39	2411	684	96	1.81	0.1	3.286	0.080	0	0	0	226
PL.43456	PL.43455	ABC	#3/0 ACSR	7.16Y	119.3	0.14	5.66	115.84	39	2397	678	96	2.08	0.1	3.378	0.092	0	0	0	223
PL.42748	PL.43456	C	6 A (CWC)	7.16Y	119.3	0.00	5.67	14.82	11	102	30	96	0.00	0.0	3.384	0.006	0	0	0	6
PD.6423	PL.42748	C	50QA	7.16Y	119.3	0.00	5.67	14.82	30	102	30	96	0.00	0.0	3.384	0.006	0	0	0	6
PL.60848	PD.6423	C	#1/0 ACSR	7.16Y	119.3	0.01	5.68	14.82	6	102	30	96	0.01	0.0	3.411	0.028	24	7	1	6
PL.60849	PL.60848	C	#1/0 ACSR	7.16Y	119.3	0.01	5.68	11.32	5	78	23	96	0.00	0.0	3.437	0.026	0	0	0	5
PL.64825	PL.60849	C	#1/0 ACSR	7.16Y	119.3	0.00	5.69	11.32	5	78	23	96	0.00	0.0	3.456	0.019	14	4	1	5
PL.64827	PL.64825	C	6 A (CWC)	7.16Y	119.3	0.04	5.73	3.77	3	26	8	96	0.01	0.0	3.693	0.237	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: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.64828	PL.64827	C	6 A (CWC)	7.16Y	119.3	0.00	5.73	3.77	3	26	8	96	0.00	0.0	3.721	0.028	11	3	1	2
PL.64824	PL.64828	C	6 A (CWC)	7.16Y	119.3	0.01	5.74	2.20	2	15	4	97	0.00	0.0	3.772	0.051	0	0	0	1
PL.42750	PL.64824	C	6 A (CWC)	7.16Y	119.3	0.00	5.74	2.20	2	15	4	97	0.00	0.0	3.801	0.029	15	4	1	1
PL.42121	PL.64824	C	#4 ACSR	7.16Y	119.3	0.00	5.74	0.00	0	0	0	100	0.00	0.0	3.808	0.036	0	0	0	0
PL.64829	PL.64827	C	#1/0 ACSR	7.16Y	119.3	0.00	5.73	0.00	0	0	0	100	0.00	0.0	3.740	0.047	0	0	0	0
PL.64826	PL.64825	C	#4 ACSR	7.16Y	119.3	0.00	5.69	5.57	4	38	11	96	0.00	0.0	3.456	0.000	0	0	0	2
PL.63737	PL.64826	C	#4 ACSR	7.16Y	119.3	0.02	5.71	5.57	4	38	11	96	0.00	0.0	3.551	0.095	16	5	1	2
PL.42749	PL.63737	C	#4 ACSR	7.16Y	119.3	0.01	5.71	3.25	3	22	7	95	0.00	0.0	3.634	0.083	22	7	1	1
PL.41777	PL.43456	ABC	336 MCM AC	7.16Y	119.3	0.01	5.68	36.39	7	755	202	97	0.06	0.0	3.428	0.050	0	0	0	68
PL.52139	PL.41777	ABC	336 MCM AC	7.16Y	119.3	0.00	5.68	36.39	7	755	202	97	0.00	0.0	3.429	0.001	0	0	0	68
PD.8018	PL.52139	ABC	70L	7.16Y	119.3	0.00	5.68	36.39	52	755	202	97	0.00	0.0	3.429	0.001	0	0	0	68
PL.52140	PD.8018	ABC	336 MCM AC	7.16Y	119.3	0.01	5.69	36.39	7	755	202	97	0.04	0.0	3.467	0.038	0	0	0	68
PL.52141	PL.52140	ABC	336 MCM AC	7.16Y	119.3	0.01	5.70	36.39	7	755	202	97	0.05	0.0	3.513	0.047	0	0	0	68
PL.52394	PL.52141	ABC	336 MCM AC	7.16Y	119.3	0.00	5.71	36.39	7	755	202	97	0.02	0.0	3.531	0.018	9	3	1	68
PL.52413	PL.52394	ABC	336 MCM AC	7.16Y	119.3	0.01	5.72	35.93	7	745	199	97	0.04	0.0	3.572	0.041	0	0	0	67
PL.52414	PL.52413	ABC	336 MCM AC	7.16Y	119.3	0.03	5.75	19.36	4	403	103	97	0.07	0.0	3.795	0.223	0	0	0	34
PL.52395	PL.52414	ABC	336 MCM AC	7.15Y	119.2	0.05	5.79	19.36	4	403	103	97	0.10	0.0	4.117	0.322	0	0	0	34
PL.52379	PL.52395	ABC	336 MCM AC	7.15Y	119.2	0.02	5.81	19.36	4	403	103	97	0.03	0.0	4.226	0.109	0	0	0	34
PL.52380	PL.52379	ABC	336 MCM AC	7.15Y	119.2	0.00	5.81	19.36	4	403	102	97	0.01	0.0	4.258	0.032	0	0	0	34
PL.54323	PL.52380	A	6 A (CWC)	7.15Y	119.2	0.00	5.81	7.28	5	50	13	97	0.00	0.0	4.258	0.000	0	0	0	4
PD.8131	PL.54323	A	30T	7.15Y	119.2	0.00	5.81	7.28	0	50	13	97	0.00	0.0	4.258	0.000	0	0	0	4
PL.54324	PD.8131	A	6 A (CWC)	7.15Y	119.2	0.02	5.83	7.28	5	50	13	97	0.01	0.0	4.322	0.064	0	0	0	4
PL.54325	PL.54324	A	6 A (CWC)	7.15Y	119.1	0.02	5.86	7.28	5	50	13	97	0.01	0.0	4.423	0.101	27	8	1	4
PL.54322	PL.54325	A	1/0 AL URD	7.15Y	119.1	0.00	5.86	3.38	2	24	6	97	0.00	0.0	4.428	0.006	0	0	0	3
PD.6586	PL.54322	A	25QA	7.15Y	119.1	0.00	5.86	3.38	14	24	6	97	0.00	0.0	4.428	0.006	0	0	0	3
PL.41384	PD.6586	A	1/0 AL URD	7.15Y	119.1	0.01	5.87	3.38	2	24	6	97	0.00	0.0	4.530	0.101	2	1	1	3
PL.57698	PL.41384	A	1/0 AL URD	7.15Y	119.1	0.02	5.89	3.08	2	21	5	97	0.00	0.0	4.785	0.255	6	2	1	2
PL.57699	PL.57698	A	1/0 AL URD	7.15Y	119.1	0.00	5.89	2.20	1	15	4	97	0.00	0.0	4.785	0.000	15	4	1	1
PL.52381	PL.52380	ABC	336 MCM AC	7.15Y	119.2	0.01	5.82	16.94	3	352	89	97	0.02	0.0	4.336	0.079	0	0	0	30
PL.52382	PL.52381	ABC	336 MCM AC	7.15Y	119.2	0.00	5.83	16.94	3	352	89	97	0.01	0.0	4.365	0.028	3	1	1	30
PL.52383	PL.52382	ABC	336 MCM AC	7.15Y	119.2	0.00	5.83	16.80	3	349	88	97	0.01	0.0	4.390	0.025	14	4	1	29

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.52392	PL.52383	ABC	336 MCM AC	7.15Y	119.2	0.01	5.84	16.11	3	335	84	97	0.02	0.0	4.488	0.099	0	0	0	28
PL.52393	PL.52392	A	6 A (CWC)	7.15Y	119.2	0.00	5.84	9.52	7	65	19	96	0.00	0.0	4.490	0.001	0	0	0	8
PD.8019	PL.52393	A	25T	7.15Y	119.2	0.00	5.84	9.52	0	65	19	96	0.00	0.0	4.490	0.001	0	0	0	8
PL.52385	PD.8019	A	6 A (CWC)	7.15Y	119.1	0.04	5.88	9.52	7	65	19	96	0.02	0.0	4.578	0.089	4	1	1	8
PL.52384	PL.52385	A	6 A (CWC)	7.14Y	119.1	0.06	5.94	8.95	6	61	18	96	0.03	0.0	4.722	0.144	0	0	0	7
PL.42219	PL.52384	A	6 A (CWC)	7.14Y	119.0	0.06	6.00	7.97	6	55	16	96	0.03	0.0	4.896	0.174	0	0	0	6
PL.42220	PL.42219	A	6 A (CWC)	7.14Y	118.9	0.06	6.06	5.30	4	36	11	96	0.02	0.0	5.139	0.243	0	0	0	4
PL.41708	PL.42220	A	6 A (CWC)	7.14Y	118.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	5.254	0.116	0	0	0	0
PL.42851	PL.42220	A	#1/0 ACSR	7.14Y	118.9	0.00	6.06	5.30	2	36	11	96	0.00	0.0	5.175	0.036	16	5	1	4
PL.42852	PL.42851	A	#1/0 ACSR	7.14Y	118.9	0.01	6.07	2.90	1	20	6	96	0.00	0.0	5.290	0.115	0	0	0	3
PL.42853	PL.42852	A	#1/0 ACSR	7.13Y	118.9	0.02	6.09	2.90	1	20	6	96	0.00	0.0	5.541	0.251	3	1	1	3
PL.42854	PL.42853	A	#1/0 ACSR	7.13Y	118.9	0.01	6.09	2.42	1	17	5	96	0.00	0.0	5.645	0.105	0	0	0	2
PL.42855	PL.42854	A	#1/0 ACSR	7.13Y	118.9	0.01	6.11	1.94	1	13	4	96	0.00	0.0	5.972	0.327	0	0	0	1
PL.41540	PL.42855	A	#1/0 ACSR	7.13Y	118.9	0.00	6.11	0.00	0	0	0	100	0.00	0.0	6.200	0.228	0	0	0	0
PL.42856	PL.42855	A	#1/0 ACSR	7.13Y	118.9	0.01	6.11	1.94	1	13	4	96	0.00	0.0	6.105	0.134	0	0	0	1
PL.41737	PL.42856	A	#4 ACSR	7.13Y	118.9	0.01	6.12	1.94	1	13	4	96	0.00	0.0	6.287	0.181	13	4	1	1
PL.42857	PL.42856	A	#1/0 ACSR	7.13Y	118.9	0.00	6.11	0.00	0	0	0	100	0.00	0.0	6.251	0.145	0	0	0	0
PL.41846	PL.42854	A	#4 ACSR	7.13Y	118.9	0.00	6.09	0.48	0	3	1	95	0.00	0.0	5.689	0.044	3	1	1	1
PL.41849	PL.42219	A	#4 ACSR	7.14Y	119.0	0.02	6.02	2.68	2	18	5	96	0.00	0.0	5.232	0.336	18	5	2	2
PL.41743	PL.52384	A	#4 ACSR	7.14Y	119.1	0.00	5.94	0.97	1	7	2	96	0.00	0.0	4.823	0.101	7	2	1	1
PL.52390	PL.52392	ABC	336 MCM AC	7.15Y	119.2	0.01	5.85	12.94	2	270	65	97	0.01	0.0	4.574	0.085	0	0	0	20
PL.52391	PL.52390	ABC	336 MCM AC	7.15Y	119.1	0.01	5.86	12.94	2	270	65	97	0.02	0.0	4.709	0.135	0	0	0	20
PL.52386	PL.52391	ABC	336 MCM AC	7.15Y	119.1	0.01	5.87	12.94	2	270	65	97	0.01	0.0	4.792	0.082	0	0	0	20
PL.52388	PL.52386	A	6 A (CWC)	7.15Y	119.1	0.00	5.87	0.00	0	0	0	100	0.00	0.0	4.793	0.001	0	0	0	0
PD.8020	PL.52388	A	10QA	7.15Y	119.1	0.00	5.87	0.00	0	0	0	100	0.00	0.0	4.793	0.001	0	0	0	0
PL.52389	PD.8020	A	6 A (CWC)	7.15Y	119.1	0.00	5.87	0.00	0	0	0	100	0.00	0.0	5.187	0.395	0	0	0	0
PL.52387	PL.52389	A	#1/0 ACSR	7.15Y	119.1	0.00	5.87	0.00	0	0	0	100	0.00	0.0	5.193	0.006	0	0	0	0
PL.52412	PL.52386	ABC	336 MCM AC	7.15Y	119.1	0.01	5.88	12.94	2	270	65	97	0.01	0.0	4.878	0.087	0	0	0	20
PL.61658	PL.52412	ABC	1/0 AL URD	7.15Y	119.1	0.00	5.88	12.22	7	255	61	97	0.01	0.0	4.888	0.010	0	0	0	18
P PL.62307	PL.61658	C	1/0 AL URD	7.15Y	119.1	0.00	5.88	0.00	0	0	0	100	0.00	0.0	4.889	0.000	0	0	0	0 P
PL.62299	PL.61658	ABC	1/0 AL URD	7.14Y	119.1	0.04	5.92	12.22	7	255	61	97	0.09	0.0	5.055	0.167	0	0	0	18

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

Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.62297	PL.62299	A	1/0 AL URD	7.14Y	119.1	0.02	5.93	15.00	9	103	28	96	0.01	0.0	5.089	0.034	11	3	1	7
PL.61646	PL.62297	A	1/0 AL URD	7.14Y	119.0	0.02	5.96	13.39	8	92	25	97	0.02	0.0	5.153	0.063	13	4	1	6
PL.63500	PL.61646	A	1/0 AL URD	7.14Y	119.0	0.02	5.98	11.52	7	79	22	96	0.01	0.0	5.227	0.074	40	12	2	5
PL.63498	PL.63500	A	1/0 AL URD	7.14Y	119.0	0.01	5.99	5.76	3	40	10	97	0.00	0.0	5.311	0.085	23	7	1	3
PL.63502	PL.63498	A	1/0 AL URD	7.14Y	119.0	0.00	5.99	2.41	1	17	4	97	0.00	0.0	5.361	0.050	17	5	2	2
PL.61489	PL.63502	A	1/0 AL URD	7.14Y	119.0	-0.00	5.99	-0.11	0	0	-1	0	0.00	0.0	5.448	0.087	0	0	0	0
PL.61645	PL.61489	A	1/0 AL URD	7.14Y	119.0	-0.00	5.99	-0.07	0	0	0	100	0.00	0.0	5.576	0.128	0	0	0	0
PL.62300	PL.62299	B	1/0 AL URD	7.14Y	119.1	0.00	5.92	2.66	2	19	1	100	0.00	0.0	5.079	0.023	9	3	1	2
PL.62298	PL.62300	B	1/0 AL URD	7.14Y	119.1	0.00	5.92	1.37	1	10	-2	-98	0.00	0.0	5.183	0.104	0	0	0	1
PL.61491	PL.62298	B	1/0 AL URD	7.14Y	119.1	0.00	5.93	1.37	1	10	-1	-100	0.00	0.0	5.236	0.054	0	0	0	1
PL.63507	PL.61491	B	1/0 AL URD	7.14Y	119.1	0.00	5.93	1.36	1	10	-1	-100	0.00	0.0	5.286	0.050	0	0	0	1
PL.63508	PL.63507	B	1/0 AL URD	7.14Y	119.1	0.00	5.93	1.36	1	10	-1	-100	0.00	0.0	5.379	0.093	0	0	0	1
PL.61647	PL.63508	B	1/0 AL URD	7.14Y	119.1	0.00	5.93	1.35	1	10	-1	-100	0.00	0.0	5.437	0.058	0	0	0	1
PL.61648	PL.61647	B	1/0 AL URD	7.14Y	119.1	0.00	5.94	1.35	1	10	0	100	0.00	0.0	5.481	0.044	0	0	0	1
PL.61649	PL.61648	B	1/0 AL URD	7.14Y	119.1	0.00	5.94	1.35	1	10	0	100	0.00	0.0	5.499	0.019	0	0	0	1
PL.61650	PL.61649	B	1/0 AL URD	7.14Y	119.1	0.00	5.94	1.37	1	10	2	98	0.00	0.0	5.565	0.065	0	0	0	1
PL.61651	PL.61650	B	1/0 AL URD	7.14Y	119.1	0.00	5.94	1.37	1	10	2	98	0.00	0.0	5.601	0.036	10	3	1	1
PL.61652	PL.61651	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.13	0	0	-1	0	0.00	0.0	5.693	0.092	0	0	0	0
PL.62301	PL.61652	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.08	0	0	-1	0	0.00	0.0	5.741	0.048	0	0	0	0
PL.62302	PL.62301	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.06	0	0	0	100	0.00	0.0	5.794	0.053	0	0	0	0
P PL.63509	PL.62302	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.03	0	0	0	100	0.00	0.0	5.847	0.053	0	0	0	0 P
P PL.63510	PL.63509	B	1/0 AL URD	7.14Y	119.1	0.00	5.94	0.00	0	0	0	100	0.00	0.0	5.849	0.002	0	0	0	0 P
PL.61656	PL.61649	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.24	0	0	-2	0	0.00	0.0	5.559	0.060	0	0	0	0
PL.61657	PL.61656	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.21	0	0	-1	0	0.00	0.0	5.629	0.069	0	0	0	0
PL.61655	PL.61657	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.17	0	0	-1	0	0.00	0.0	5.675	0.046	0	0	0	0
PL.61654	PL.61655	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.15	0	0	-1	0	0.00	0.0	5.749	0.074	0	0	0	0
PL.61653	PL.61654	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.11	0	0	-1	0	0.00	0.0	5.820	0.072	0	0	0	0
PL.62304	PL.61653	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.07	0	0	0	100	0.00	0.0	5.852	0.031	0	0	0	0
PL.62303	PL.62304	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.05	0	0	0	100	0.00	0.0	5.922	0.070	0	0	0	0
P PL.62305	PL.62303	B	1/0 AL URD	7.14Y	119.1	-0.00	5.94	-0.02	0	0	0	100	0.00	0.0	5.955	0.033	0	0	0	0 P
PL.62306	PL.62299	C	1/0 AL URD	7.14Y	119.1	-0.00	5.92	-0.09	0	0	-1	0	0.00	0.0	5.236	0.181	0	0	0	0

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.63501	PL.62299	A	1/0 AL URD	7.14Y	119.0	0.03	5.95	19.15	11	132	35	97	0.03	0.0	5.121	0.066	31	9	2	9
PL.63503	PL.63501	A	1/0 AL URD	7.14Y	119.0	0.04	5.99	14.63	9	101	26	97	0.03	0.0	5.223	0.102	31	9	2	7
PL.63504	PL.63503	A	1/0 AL URD	7.14Y	119.0	0.03	6.02	10.06	6	70	17	97	0.01	0.0	5.327	0.104	24	7	1	5
PL.63495	PL.63504	A	1/0 AL URD	7.14Y	118.9	0.03	6.05	6.52	4	45	10	98	0.01	0.0	5.496	0.169	0	0	0	4
PL.63496	PL.63495	A	1/0 AL URD	7.14Y	118.9	0.01	6.07	6.54	4	45	11	97	0.00	0.0	5.558	0.062	0	0	1	4
PL.63497	PL.63496	A	1/0 AL URD	7.14Y	118.9	0.01	6.08	6.50	4	45	11	97	0.00	0.0	5.600	0.042	0	0	0	3
PL.61644	PL.63497	A	1/0 AL URD	7.13Y	118.9	0.02	6.10	6.50	4	45	11	97	0.01	0.0	5.698	0.098	0	0	0	3
PL.61643	PL.61644	A	1/0 AL URD	7.13Y	118.9	0.01	6.11	6.51	4	45	12	97	0.00	0.0	5.748	0.050	0	0	0	3
PL.63494	PL.61643	A	1/0 AL URD	7.13Y	118.9	0.01	6.11	6.52	4	45	12	97	0.00	0.0	5.789	0.040	0	0	0	3
PL.63493	PL.63494	A	1/0 AL URD	7.13Y	118.9	0.01	6.13	6.53	4	45	12	97	0.00	0.0	5.850	0.062	0	0	0	3
PL.61642	PL.63493	A	1/0 AL URD	7.13Y	118.9	0.01	6.14	6.53	4	45	12	97	0.00	0.0	5.901	0.051	0	0	0	3
PL.61490	PL.61642	A	1/0 AL URD	7.13Y	118.9	0.01	6.15	6.54	4	45	12	97	0.00	0.0	5.963	0.062	0	0	0	3
PL.63506	PL.61490	A	1/0 AL URD	7.13Y	118.8	0.00	6.15	5.05	3	35	10	96	0.00	0.0	5.996	0.033	35	10	2	2
PL.63505	PL.61490	A	1/0 AL URD	7.13Y	118.8	0.00	6.15	1.50	1	10	3	96	0.00	0.0	6.059	0.096	10	3	1	1
P PL.63499	PL.63505	A	1/0 AL URD	7.13Y	118.8	0.00	6.15	-0.00	0	0	0	100	0.00	0.0	6.062	0.003	0	0	0	0 P
PL.64831	PL.52412	ABC	336 MCM AC	7.15Y	119.1	0.00	5.88	0.72	0	15	3	98	0.00	0.0	4.890	0.011	0	0	0	2
PL.64832	PL.64831	ABC	336 MCM AC	7.15Y	119.1	0.00	5.88	0.72	0	15	3	98	0.00	0.0	4.890	0.000	0	0	1	2
PL.64833	PL.64832	C	1/0 AL URD	7.15Y	119.1	0.01	5.88	2.15	1	15	3	98	0.00	0.0	4.967	0.077	0	0	0	1
PL.64834	PL.64833	C	1/0 AL URD	7.15Y	119.1	0.00	5.88	2.16	1	15	4	97	0.00	0.0	4.982	0.015	0	0	0	1
PL.64835	PL.64834	C	1/0 AL URD	7.15Y	119.1	0.00	5.88	2.17	1	15	4	97	0.00	0.0	5.017	0.036	0	0	0	1
PL.72564	PL.64835	C	1/0 AL URD	7.15Y	119.1	0.00	5.89	2.17	1	15	4	97	0.00	0.0	5.138	0.121	15	4	1	1
PL.52418	PL.52413	ABC	1/0 AL URD	7.16Y	119.3	0.00	5.72	16.57	10	343	96	96	0.00	0.0	3.575	0.003	0	0	0	33
PD.8021	PL.52418	ABC	60QA	7.16Y	119.3	0.00	5.72	16.57	28	343	96	96	0.00	0.0	3.575	0.003	0	0	0	33
PL.52419	PD.8021	ABC	1/0 AL URD	7.16Y	119.3	0.00	5.72	16.57	10	343	96	96	0.01	0.0	3.584	0.009	0	0	0	33
PL.52416	PL.52419	B	1/0 AL URD	7.16Y	119.3	0.00	5.72	4.78	3	33	8	97	0.00	0.0	3.633	0.049	22	6	2	3
PL.52397	PL.52416	B	1/0 AL URD	7.16Y	119.3	0.00	5.73	1.63	1	11	2	98	0.00	0.0	3.659	0.026	11	3	1	1
PL.52398	PL.52397	B	1/0 AL URD	7.16Y	119.3	-0.00	5.73	-0.13	0	0	-1	0	0.00	0.0	3.746	0.087	0	0	0	0
PL.52399	PL.52398	B	1/0 AL URD	7.16Y	119.3	-0.00	5.73	-0.08	0	0	-1	0	0.00	0.0	3.778	0.032	0	0	0	0
PL.52400	PL.52399	B	1/0 AL URD	7.16Y	119.3	-0.00	5.73	-0.07	0	0	0	100	0.00	0.0	3.824	0.046	0	0	0	0
P PL.52401	PL.52400	B	1/0 AL URD	7.16Y	119.3	-0.00	5.73	-0.04	0	0	0	100	0.00	0.0	3.839	0.015	0	0	0	0 P
P PL.52402	PL.52401	B	1/0 AL URD	7.16Y	119.3	-0.00	5.73	-0.04	0	0	0	100	0.00	0.0	3.907	0.068	0	0	0	0 P

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.52415	PL.52419	C	1/0 AL URD	7.16Y	119.3	0.00	5.72	2.63	2	18	5	96	0.00	0.0	3.627	0.044	18	5	2	2
PL.52417	PL.52419	A	1/0 AL URD	7.15Y	119.2	0.12	5.84	42.32	25	291	83	96	0.27	0.1	3.677	0.093	26	7	3	28
PL.52396	PL.52417	A	1/0 AL URD	7.15Y	119.1	0.06	5.90	38.59	23	265	75	96	0.14	0.1	3.729	0.052	0	0	0	25
PL.52403	PL.52396	A	1/0 AL URD	7.14Y	119.0	0.10	6.00	38.60	23	265	76	96	0.22	0.1	3.813	0.084	0	0	0	25
PL.52404	PL.52403	A	1/0 AL URD	7.14Y	119.0	0.04	6.04	38.61	23	265	76	96	0.09	0.0	3.847	0.034	0	0	0	25
PL.52406	PL.52404	A	1/0 AL URD	7.14Y	119.0	0.00	6.05	6.96	4	48	13	97	0.00	0.0	3.869	0.022	7	2	1	7
PL.63749	PL.52406	A	1/0 AL URD	7.14Y	118.9	0.01	6.06	5.87	3	41	11	97	0.00	0.0	3.919	0.049	15	4	2	6
PL.64372	PL.63749	A	1/0 AL URD	7.14Y	118.9	0.01	6.06	3.74	2	26	7	97	0.00	0.0	3.971	0.052	9	3	2	4
PL.64821	PL.64372	A	1/0 AL URD	7.14Y	118.9	0.01	6.07	2.42	1	17	4	97	0.00	0.0	4.048	0.077	0	0	0	2
PL.64822	PL.64821	A	1/0 AL URD	7.14Y	118.9	0.00	6.07	2.44	1	17	5	96	0.00	0.0	4.048	0.000	17	5	2	2
PL.64823	PL.64821	A	1/0 AL URD	7.14Y	118.9	-0.00	6.07	-0.06	0	0	0	100	0.00	0.0	4.158	0.110	0	0	0	0
PL.52409	PL.52404	A	1/0 AL URD	7.14Y	118.9	0.04	6.08	31.66	19	217	63	96	0.06	0.0	3.884	0.037	0	0	0	18
P PL.52411	PL.52409	A	1/0 AL URD	7.14Y	118.9	0.00	6.08	-0.00	0	0	0	100	0.00	0.0	3.887	0.003	0	0	0	0 P
PL.52408	PL.52409	A	6 A (CWC)	7.13Y	118.9	0.06	6.14	27.57	20	189	55	96	0.09	0.0	3.938	0.054	31	9	2	17
PL.63511	PL.52408	A	6 A (CWC)	7.13Y	118.8	0.06	6.21	22.98	16	157	46	96	0.08	0.0	4.001	0.063	13	4	2	15
PL.63735	PL.63511	A	6 A (CWC)	7.13Y	118.8	0.00	6.21	21.06	15	144	42	96	0.00	0.0	4.001	0.000	0	0	0	13
PL.63736	PL.63735	A	6 A (CWC)	7.13Y	118.8	0.04	6.24	21.06	15	144	42	96	0.04	0.0	4.040	0.040	14	4	1	13
PL.54339	PL.63736	A	#4 ACSR	7.12Y	118.7	0.03	6.28	14.86	11	102	30	96	0.02	0.0	4.097	0.056	26	8	2	10
PL.42849	PL.54339	A	#4 ACSR	7.12Y	118.7	0.01	6.29	3.23	2	22	6	96	0.00	0.0	4.184	0.088	8	2	1	3
PL.42850	PL.42849	A	#4 ACSR	7.12Y	118.7	0.00	6.29	2.01	2	14	4	96	0.00	0.0	4.241	0.057	14	4	2	2
PL.42848	PL.54339	A	#4 ACSR	7.12Y	118.7	0.01	6.28	4.05	3	28	8	96	0.00	0.0	4.164	0.068	16	5	2	3
PL.52405	PL.42848	A	#4 ACSR	7.12Y	118.7	0.00	6.29	1.65	1	11	3	96	0.00	0.0	4.227	0.063	11	3	1	1
PL.66153	PL.52405	A	#1/0 ACSR	7.12Y	118.7	0.00	6.29	0.00	0	0	0	100	0.00	0.0	4.243	0.016	0	0	0	0
PL.54335	PL.54339	A	#4 ACSR	7.12Y	118.7	0.01	6.28	3.73	3	26	7	97	0.00	0.0	4.183	0.086	26	7	2	2
PL.54338	PL.63736	A	#4 ACSR	7.12Y	118.7	0.01	6.25	4.11	3	28	8	96	0.00	0.0	4.080	0.040	0	0	0	2
PL.54336	PL.54338	A	#4 ACSR	7.12Y	118.7	0.00	6.25	1.67	1	11	3	96	0.00	0.0	4.116	0.036	11	3	1	1
PL.54337	PL.54338	A	#4 ACSR	7.12Y	118.7	0.00	6.25	2.45	2	17	5	96	0.00	0.0	4.119	0.039	17	5	1	1
PL.52407	PL.52409	A	#4 ACSR	7.13Y	118.9	0.00	6.09	4.10	3	28	8	96	0.00	0.0	3.931	0.047	28	8	1	1
P PL.52410	PL.52404	A	1/0 AL URD	7.14Y	119.0	0.00	6.04	-0.02	0	0	0	100	0.00	0.0	3.882	0.035	0	0	0	0 P
PL.41541	PL.43456	ABC	#3/0 ACSR	7.16Y	119.3	0.07	5.74	74.51	25	1538	443	96	0.70	0.0	3.455	0.077	37	11	3	149
PL.41275	PL.41541	ABC	#3/0 ACSR	7.15Y	119.2	0.06	5.80	71.35	24	1472	423	96	0.56	0.0	3.520	0.066	2	0	3	143

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: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.41276	PL.41275	A	#4 ACSR	7.15Y	119.2	0.00	5.80	5.12	4	35	10	96	0.00	0.0	3.526	0.006	0	0	0	4
PD.6424	PL.41276	A	60QA	7.15Y	119.2	0.00	5.80	5.12	9	35	10	96	0.00	0.0	3.526	0.006	0	0	0	4
PL.41840	PD.6424	A	#4 ACSR	7.15Y	119.2	0.01	5.80	5.12	4	35	10	96	0.00	0.0	3.561	0.035	4	1	1	4
PL.41841	PL.41840	A	#4 ACSR	7.15Y	119.2	0.01	5.82	4.57	4	31	9	96	0.00	0.0	3.704	0.143	31	9	3	3
PL.41842	PL.41275	ABC	#3/0 ACSR	7.15Y	119.1	0.09	5.88	69.56	23	1435	411	96	0.79	0.1	3.618	0.098	18	5	2	136
PL.41843	PL.41842	ABC	#3/0 ACSR	7.14Y	119.1	0.06	5.94	68.71	23	1417	405	96	0.51	0.0	3.682	0.064	0	0	0	134
PL.42859	PL.41843	ABC	#3/0 ACSR	7.14Y	119.0	0.06	6.00	68.07	23	1403	400	96	0.55	0.0	3.754	0.072	14	4	1	133
PL.42860	PL.42859	ABC	#3/0 ACSR	7.14Y	118.9	0.08	6.08	65.58	22	1351	384	96	0.73	0.1	3.855	0.101	0	0	0	129
PL.43464	PL.42860	ABC	#3/0 ACSR	7.13Y	118.9	0.03	6.12	24.42	8	501	148	96	0.10	0.0	3.960	0.105	13	4	1	66
PL.43465	PL.43464	ABC	#3/0 ACSR	7.13Y	118.9	0.03	6.14	23.79	8	488	144	96	0.08	0.0	4.049	0.089	0	0	0	65
PL.43463	PL.43465	ABC	#3/0 ACSR	7.13Y	118.8	0.01	6.15	23.08	8	474	139	96	0.04	0.0	4.089	0.040	0	0	0	64
PL.43467	PL.43463	ABC	#3/0 ACSR	7.13Y	118.8	0.00	6.16	23.08	8	474	139	96	0.01	0.0	4.095	0.006	0	0	0	64
PL.43047	PL.43467	ABC	#3/0 ACSR	7.13Y	118.8	0.02	6.18	23.08	8	474	139	96	0.06	0.0	4.161	0.066	0	0	0	64
PL.43050	PL.43047	ABC	#3/0 ACSR	7.13Y	118.8	0.05	6.22	21.68	7	445	131	96	0.13	0.0	4.324	0.163	0	0	0	62
PL.43051	PL.43050	ABC	#3/0 ACSR	7.12Y	118.7	0.06	6.28	21.35	7	438	129	96	0.16	0.0	4.528	0.205	0	0	0	60
PL.59262	PL.43051	ABC	#3/0 ACSR	7.12Y	118.7	0.00	6.28	0.20	0	4	1	97	0.00	0.0	4.619	0.090	4	1	1	1
PL.59263	PL.59262	ABC	#3/0 ACSR	7.12Y	118.7	0.00	6.28	0.00	0	0	0	100	0.00	0.0	4.639	0.021	0	0	0	0
PD.8755-A	PL.59263	ABC	Open	7.12Y	118.7	0.00	6.28	0.00	0	0	0	100	0.00	0.0	4.639	0.021	0	0	0	0
PL.41568	PL.43051	ABC	#3/0 ACSR	7.12Y	118.7	0.00	6.28	21.15	7	434	127	96	0.01	0.0	4.539	0.011	0	0	0	59
PL.43054	PL.41568	ABC	#3/0 ACSR	7.12Y	118.7	0.00	6.28	21.15	7	434	127	96	0.00	0.0	4.545	0.006	0	0	0	59
PD.6796	PL.43054	ABC	70L	7.12Y	118.7	0.00	6.28	21.15	30	434	127	96	0.00	0.0	4.545	0.006	0	0	0	59
PL.43055	PD.6796	ABC	#3/0 ACSR	7.12Y	118.7	0.05	6.33	21.15	7	434	127	96	0.13	0.0	4.713	0.169	0	0	0	59
PL.43056	PL.43055	C	6 A (CWC)	7.12Y	118.7	0.00	6.33	1.74	1	12	3	97	0.00	0.0	4.719	0.006	0	0	0	1
PD.6491	PL.43056	C	50QA	7.12Y	118.7	0.00	6.33	1.74	3	12	3	97	0.00	0.0	4.719	0.006	0	0	0	1
PL.54332	PD.6491	C	6 A (CWC)	7.12Y	118.7	0.00	6.33	1.74	1	12	3	97	0.00	0.0	4.761	0.042	12	3	1	1
PL.54333	PL.43055	C	#4 ACSR	7.12Y	118.7	0.02	6.34	8.80	7	60	18	96	0.01	0.0	4.754	0.041	7	2	1	7
PL.54334	PL.54333	C	#4 ACSR	7.12Y	118.6	0.02	6.36	7.70	6	53	15	96	0.01	0.0	4.831	0.077	21	6	2	6
PL.54346	PL.54334	C	#4 ACSR	7.12Y	118.6	0.01	6.37	2.08	2	14	4	96	0.00	0.0	4.947	0.115	0	0	0	2
PL.54347	PL.54346	C	#4 ACSR	7.12Y	118.6	0.00	6.38	2.08	2	14	4	96	0.00	0.0	4.995	0.048	4	1	1	2
PL.43057	PL.54347	C	#4 ACSR	7.12Y	118.6	0.01	6.38	1.55	1	11	3	96	0.00	0.0	5.068	0.073	0	0	0	1
PL.55796	PL.43057	C	#1/0 ACSR	7.12Y	118.6	0.00	6.38	1.55	1	11	3	96	0.00	0.0	5.096	0.028	11	3	1	1

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.41569	PL.54334	C	#1/0 ACSR	7.12Y	118.6	0.00	6.36	2.48	1	17	5	96	0.00	0.0	4.872	0.040	8	2	1	2
PL.54331	PL.41569	C	#1/0 ACSR	7.12Y	118.6	0.00	6.36	1.35	1	9	3	95	0.00	0.0	4.890	0.019	9	3	1	1
PL.43058	PL.43055	ABC	#3/0 ACSR	7.12Y	118.6	0.02	6.35	17.63	6	361	106	96	0.06	0.0	4.819	0.106	0	0	0	51
PL.41685	PL.43058	A	#2 ACSR	7.12Y	118.6	0.00	6.35	1.73	1	12	3	97	0.00	0.0	4.876	0.057	12	3	1	1
PL.43059	PL.43058	ABC	#3/0 ACSR	7.12Y	118.6	0.02	6.37	17.06	6	350	103	96	0.05	0.0	4.925	0.106	13	4	1	50
PL.43060	PL.43059	ABC	#3/0 ACSR	7.12Y	118.6	0.02	6.40	16.42	5	336	99	96	0.05	0.0	5.038	0.113	2	1	1	49
PL.43061	PL.43060	A	6 A (CWC)	7.12Y	118.6	0.01	6.40	30.43	22	208	61	96	0.01	0.0	5.044	0.006	0	0	0	30
PD.6798	PL.43061	A	50L	7.12Y	118.6	0.00	6.40	30.43	61	208	61	96	0.00	0.0	5.044	0.006	0	0	0	30
PL.43063	PD.6798	A	6 A (CWC)	7.11Y	118.5	0.07	6.47	30.43	22	208	61	96	0.11	0.1	5.091	0.047	0	0	0	30
PL.41866	PL.43063	A	6 A (CWC)	7.11Y	118.5	0.01	6.48	3.41	2	23	7	96	0.00	0.0	5.177	0.086	23	7	2	2
L PL.43064	PL.43063	A	6 A (CWC)	7.08Y	118.0	0.55	7.02	27.02	19	184	54	96	0.78	0.4	5.546	0.455	7	2	1	28 L
L PL.43065	PL.43064	A	6 A (CWC)	7.07Y	117.9	0.11	7.13	25.95	19	176	52	96	0.15	0.1	5.643	0.097	16	5	1	27 L
L PL.42987	PL.43065	A	6 A (CWC)	7.07Y	117.8	0.02	7.16	13.12	9	89	26	96	0.02	0.0	5.684	0.041	3	1	1	20 L
L PL.42988	PL.42987	A	6 A (CWC)	7.07Y	117.8	0.08	7.24	12.65	9	86	25	96	0.05	0.1	5.817	0.133	0	0	0	19 L
L PL.42862	PL.42988	A	6 A (CWC)	7.07Y	117.8	0.01	7.25	7.99	6	54	16	96	0.00	0.0	5.852	0.035	27	8	2	14 L
L PL.55616	PL.42862	A	6 A (CWC)	7.06Y	117.7	0.01	7.26	4.07	3	28	8	96	0.00	0.0	5.904	0.051	0	0	0	12 L
L PL.55617	PL.55616	A	#2 ACSR	7.06Y	117.7	0.00	7.26	3.36	2	23	7	96	0.00	0.0	5.933	0.029	23	7	8	8 L
L PL.55618	PL.55616	A	6 A (CWC)	7.06Y	117.7	0.00	7.26	0.71	1	5	1	98	0.00	0.0	5.958	0.054	4	1	1	4 L
L PL.55620	PL.55618	A	#1/0 ACSR	7.06Y	117.7	0.00	7.26	0.00	0	0	0	100	0.00	0.0	5.990	0.032	0	0	1	1 L
L PL.55619	PL.55618	A	6 A (CWC)	7.06Y	117.7	0.00	7.26	0.07	0	0	0	100	0.00	0.0	6.013	0.055	0	0	2	2 L
L PL.41501	PL.42988	A	6 A (CWC)	7.07Y	117.8	0.00	7.24	0.00	0	0	0	100	0.00	0.0	5.865	0.048	0	0	0	0 L
L PL.59680	PL.41501	A	6 A (CWC)	7.07Y	117.8	0.00	7.24	0.00	0	0	0	100	0.00	0.0	5.875	0.009	0	0	0	0 L
L PL.55490	PL.42988	A	6 A (CWC)	7.06Y	117.7	0.03	7.27	4.65	3	32	9	96	0.01	0.0	5.975	0.158	0	0	0	5 L
L PL.55491	PL.55490	A	6 A (CWC)	7.06Y	117.7	0.02	7.29	4.65	3	32	9	96	0.00	0.0	6.098	0.123	11	3	1	5 L
L PL.55489	PL.55491	A	6 A (CWC)	7.06Y	117.7	0.01	7.30	3.06	2	21	6	96	0.00	0.0	6.157	0.059	0	0	0	4 L
L PL.42861	PL.55489	A	6 A (CWC)	7.06Y	117.7	0.02	7.32	3.06	2	21	6	96	0.00	0.0	6.289	0.132	0	0	0	4 L
L PL.55486	PL.42861	A	6 A (CWC)	7.06Y	117.7	0.01	7.32	3.06	2	21	6	96	0.00	0.0	6.356	0.067	16	5	2	4 L
L PL.55487	PL.55486	A	#1/0 ACSR	7.06Y	117.7	0.00	7.33	0.77	0	5	2	93	0.00	0.0	6.501	0.146	4	1	1	2 L
L PL.63529	PL.55487	A	#1/0 ACSR	7.06Y	117.7	0.00	7.33	0.19	0	1	0	100	0.00	0.0	6.663	0.162	1	0	1	1 L
L PL.55488	PL.55489	A	#4 ACSR	7.06Y	117.7	0.00	7.30	0.00	0	0	0	100	0.00	0.0	6.220	0.063	0	0	0	0 L
L PL.43066	PL.43065	A	#4 ACSR	7.07Y	117.9	0.01	7.15	10.46	8	71	21	96	0.01	0.0	5.676	0.032	8	2	1	6 L

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Balanced Voltage Drop Report
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Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
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Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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

L PL.43067	PL.43066	A	#4 ACSR	7.07Y	117.8	0.04	7.18	9.29	7	63	18	96	0.02	0.0	5.762	0.087	0	0	0	5 L
L PL.41310	PL.43067	A	#2 ACSR	7.07Y	117.8	0.00	7.19	1.86	1	13	4	96	0.00	0.0	5.841	0.079	13	4	1	1 L
L PL.43068	PL.43067	A	#4 ACSR	7.07Y	117.8	0.02	7.20	7.43	6	50	15	96	0.01	0.0	5.816	0.054	7	2	1	4 L
L PL.43069	PL.43068	A	#4 ACSR	7.07Y	117.8	0.02	7.22	6.42	5	44	13	96	0.01	0.0	5.894	0.078	17	5	1	3 L
L PL.55935	PL.43069	A	#4 ACSR	7.07Y	117.8	0.02	7.23	3.91	3	26	8	96	0.00	0.0	5.981	0.087	0	0	0	2 L
L PL.55936	PL.55935	A	#4 ACSR	7.07Y	117.8	0.01	7.24	3.91	3	26	8	96	0.00	0.0	6.032	0.051	16	5	1	2 L
L PL.55938	PL.55936	A	#1/0 ACSR	7.07Y	117.8	0.00	7.24	1.48	1	10	3	96	0.00	0.0	6.099	0.067	10	3	1	1 L
L PL.55937	PL.55936	A	#4 ACSR	7.07Y	117.8	0.00	7.24	0.00	0	0	0	100	0.00	0.0	6.098	0.066	0	0	0	0 L
PL.41292	PL.43060	A	6 A (CWC)	7.12Y	118.6	0.01	6.41	18.54	13	127	37	96	0.01	0.0	5.052	0.014	0	0	0	18
PL.43062	PL.41292	A	6 A (CWC)	7.12Y	118.6	0.00	6.41	18.54	13	127	37	96	0.00	0.0	5.058	0.006	0	0	0	18
PD.6799	PL.43062	A	50L	7.12Y	118.6	0.00	6.41	18.54	37	127	37	96	0.00	0.0	5.058	0.006	0	0	0	18
PL.60822	PD.6799	A	6 A (CWC)	7.11Y	118.5	0.07	6.48	18.54	13	127	37	96	0.07	0.1	5.137	0.079	0	0	0	18
PL.59987	PL.60822	A	6 A (CWC)	7.11Y	118.5	0.00	6.48	0.81	1	6	2	95	0.00	0.0	5.141	0.003	0	0	0	1
PD.9066	PL.59987	A	15T	7.11Y	118.5	0.00	6.48	0.81	0	6	2	95	0.00	0.0	5.141	0.003	0	0	0	1
PL.59988	PD.9066	A	6 A (CWC)	7.11Y	118.5	0.00	6.48	0.81	1	6	2	95	0.00	0.0	5.156	0.016	6	2	1	1
PL.60821	PL.60822	A	#2 ACSR	7.11Y	118.5	0.00	6.48	1.16	1	8	2	97	0.00	0.0	5.199	0.062	8	2	1	1
PL.60823	PL.60822	A	6 A (CWC)	7.11Y	118.5	0.03	6.51	16.57	12	113	33	96	0.02	0.0	5.173	0.036	2	0	1	16
PL.54345	PL.60823	A	6 A (CWC)	7.11Y	118.4	0.05	6.56	16.32	12	111	33	96	0.04	0.0	5.237	0.064	0	0	0	15
PL.42841	PL.54345	A	#4 ACSR	7.11Y	118.4	0.01	6.56	2.61	2	18	5	96	0.00	0.0	5.306	0.069	1	0	1	3
PL.54374	PL.42841	A	#4 ACSR	7.11Y	118.4	0.00	6.57	2.42	2	16	5	95	0.00	0.0	5.348	0.041	16	5	2	2
PL.63738	PL.54345	A	6 A (CWC)	7.10Y	118.3	0.10	6.66	13.71	10	94	27	96	0.07	0.1	5.398	0.161	0	0	0	12
PL.63739	PL.63738	A	6 A (CWC)	7.10Y	118.3	0.00	6.66	13.71	10	93	27	96	0.00	0.0	5.398	0.000	13	4	1	12
PL.42842	PL.63739	A	6 A (CWC)	7.10Y	118.3	0.08	6.74	11.79	8	80	23	96	0.05	0.1	5.543	0.145	0	0	0	11
PL.54106	PL.42842	A	6 A (CWC)	7.09Y	118.2	0.02	6.76	6.36	5	43	13	96	0.01	0.0	5.623	0.080	2	1	1	8
PL.54107	PL.54106	A	#2 ACSR	7.09Y	118.2	0.00	6.76	1.56	1	11	3	96	0.00	0.0	5.651	0.027	11	3	1	1
PL.60898	PL.54106	A	6 A (CWC)	7.09Y	118.2	0.00	6.76	4.45	3	30	9	96	0.00	0.0	5.644	0.021	0	0	0	6
PL.60899	PL.60898	A	6 A (CWC)	7.09Y	118.2	0.00	6.76	0.02	0	0	0	100	0.00	0.0	5.685	0.040	0	0	1	1
PL.63769	PL.60898	A	#1/0 ACSR	7.09Y	118.2	0.00	6.77	4.43	2	30	9	96	0.00	0.0	5.689	0.045	10	3	3	5
PL.63770	PL.63769	A	#1/0 ACSR	7.09Y	118.2	0.00	6.77	2.97	1	20	6	96	0.00	0.0	5.744	0.055	0	0	0	2
PL.63732	PL.63770	A	#1/0 ACSR	7.09Y	118.2	0.00	6.77	2.97	1	20	6	96	0.00	0.0	5.781	0.037	20	6	2	2
PL.63733	PL.63732	A	#1/0 ACSR	7.09Y	118.2	0.00	6.77	0.00	0	0	0	100	0.00	0.0	5.849	0.068	0	0	0	0

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Balanced Voltage Drop Report
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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.41924	PL.42842	A	6 A (CWC)	7.09Y	118.2	0.03	6.77	5.43	4	37	11	96	0.01	0.0	5.701	0.158	14	4	1	3
PL.41735	PL.41924	A	#4 ACSR	7.09Y	118.2	0.00	6.77	1.46	1	10	3	96	0.00	0.0	5.788	0.088	10	3	1	1
PL.61845	PL.41924	A	6 A (CWC)	7.09Y	118.2	0.00	6.77	1.84	1	13	4	96	0.00	0.0	5.745	0.045	13	4	1	1
PL.61846	PL.61845	A	6 A (CWC)	7.09Y	118.2	0.00	6.77	0.00	0	0	0	100	0.00	0.0	5.827	0.081	0	0	0	0
PD.9325-B	PL.61846	A	Open	7.09Y	118.2	0.00	6.77	0.00	0	0	0	100	0.00	0.0	5.827	0.081	0	0	0	0
PL.63740	PL.63738	A	#1/0 ACSR	7.10Y	118.3	0.00	6.66	0.00	0	0	0	100	0.00	0.0	5.439	0.042	0	0	0	0
PL.43052	PL.43050	C	6 A (CWC)	7.13Y	118.8	0.00	6.22	1.00	1	7	2	96	0.00	0.0	4.330	0.006	0	0	0	2
PD.6701	PL.43052	C	60QA	7.13Y	118.8	0.00	6.22	1.00	2	7	2	96	0.00	0.0	4.330	0.006	0	0	0	2
PL.43053	PD.6701	C	6 A (CWC)	7.13Y	118.8	0.00	6.22	1.00	1	7	2	96	0.00	0.0	4.389	0.059	7	2	2	2
PL.43048	PL.43047	C	6 A (CWC)	7.13Y	118.8	0.00	6.18	4.19	3	29	8	96	0.00	0.0	4.167	0.006	0	0	0	2
PD.6490	PL.43048	C	60QA	7.13Y	118.8	0.00	6.18	4.19	7	29	8	96	0.00	0.0	4.167	0.006	0	0	0	2
PL.43049	PD.6490	C	6 A (CWC)	7.13Y	118.8	0.00	6.18	4.19	3	29	8	96	0.00	0.0	4.209	0.042	29	8	2	2
CP.61	PL.43467	ABC	Cap (300)	7.13Y	118.8	0.00	6.16	0.00	0	0	0	100	0.00	0.0	4.095	0.042	0	0	0	0
PL.43466	PL.43465	C	6 A (CWC)	7.13Y	118.9	0.00	6.14	2.14	2	15	4	97	0.00	0.0	4.055	0.006	0	0	0	1
PD.6704	PL.43466	C	20T	7.13Y	118.9	0.00	6.14	2.14	0	15	4	97	0.00	0.0	4.055	0.006	0	0	0	1
PL.53436	PD.6704	C	6 A (CWC)	7.13Y	118.9	0.00	6.14	2.14	2	15	4	97	0.00	0.0	4.088	0.034	15	4	1	1
PL.53437	PL.42860	ABC	#1/0 ACSR	7.13Y	118.9	0.01	6.09	41.16	18	849	236	96	0.07	0.0	3.870	0.014	0	0	0	63
PL.53438	PL.53437	B	1/0 AL URD	7.13Y	118.9	0.00	6.10	2.24	1	15	4	97	0.00	0.0	3.911	0.041	15	4	1	1
PL.60933	PL.53437	ABC	#1/0 ACSR	7.13Y	118.9	0.01	6.10	40.41	18	833	231	96	0.06	0.0	3.883	0.013	0	0	0	62
PL.60931	PL.60933	ABC	#1/0 ACSR	7.13Y	118.9	0.01	6.11	21.12	9	435	121	96	0.03	0.0	3.910	0.028	0	0	0	31
PL.60930	PL.60931	A	1/0 AL URD	7.13Y	118.9	0.01	6.12	63.35	37	435	121	96	0.03	0.0	3.914	0.004	0	0	0	31
PD.9072	PL.60930	A	80T	7.13Y	118.9	0.00	6.12	63.35	0	435	121	96	0.00	0.0	3.914	0.004	0	0	0	31
PL.60929	PD.9072	A	1/0 AL URD	7.13Y	118.8	0.07	6.20	63.35	37	435	121	96	0.25	0.1	3.953	0.039	48	14	1	31
PL.53407	PL.60929	A	1/0 AL URD	7.13Y	118.8	0.05	6.24	56.37	33	387	107	96	0.14	0.0	3.981	0.027	45	13	2	30
PL.53206	PL.53407	A	1/0 AL URD	7.12Y	118.7	0.06	6.30	49.87	29	343	94	96	0.15	0.0	4.019	0.038	35	10	2	28
PL.53207	PL.53206	A	1/0 AL URD	7.12Y	118.6	0.06	6.36	44.77	26	308	84	96	0.15	0.0	4.065	0.046	23	7	2	26
PL.53428	PL.53207	A	1/0 AL URD	7.11Y	118.5	0.11	6.47	41.44	24	285	77	97	0.26	0.1	4.151	0.086	0	0	0	24
PL.53429	PL.53428	A	1/0 AL URD	7.10Y	118.4	0.11	6.59	39.16	23	269	73	97	0.25	0.1	4.244	0.093	0	0	0	23
PL.53369	PL.53429	A	1/0 AL URD	7.09Y	118.2	0.21	6.79	37.82	22	259	71	96	0.44	0.2	4.419	0.174	0	0	0	22
PL.53370	PL.53369	A	1/0 AL URD	7.08Y	118.0	0.16	6.95	32.09	19	219	60	96	0.29	0.1	4.578	0.159	0	0	0	18
PL.53433	PL.53370	A	1/0 AL URD	7.08Y	118.0	0.00	6.95	1.99	1	14	4	96	0.00	0.0	4.616	0.038	14	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: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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
L PL.53432	PL.53370	A	1/0 AL URD	7.08Y	117.9	0.12	7.07	30.12	18	206	57	96	0.19	0.1	4.711	0.133	28	8	2	16 L
L PL.53431	PL.53432	A	1/0 AL URD	7.07Y	117.9	0.06	7.13	26.03	15	177	49	96	0.08	0.0	4.784	0.073	13	4	2	14 L
L PL.53209	PL.53431	A	1/0 AL URD	7.07Y	117.9	0.02	7.15	24.08	14	164	46	96	0.03	0.0	4.817	0.033	35	10	2	12 L
L PL.53367	PL.53209	A	1/0 AL URD	7.07Y	117.8	0.01	7.16	18.92	11	129	36	96	0.01	0.0	4.833	0.017	0	0	0	10 L
L PL.53373	PL.53367	A	1/0 AL URD	7.07Y	117.8	0.02	7.18	14.86	9	101	28	96	0.02	0.0	4.888	0.055	13	4	1	8 L
L PL.53371	PL.53373	A	1/0 AL URD	7.07Y	117.8	0.03	7.21	10.17	6	69	19	96	0.02	0.0	4.978	0.090	0	0	0	6 L
L PL.53375	PL.53371	A	1/0 AL URD	7.07Y	117.8	0.00	7.21	1.99	1	14	4	96	0.00	0.0	5.038	0.060	14	4	1	1 L
L PL.53374	PL.53371	A	1/0 AL URD	7.07Y	117.8	0.00	7.21	2.06	1	14	4	96	0.00	0.0	5.005	0.026	14	4	1	1 L
L PL.53372	PL.53371	A	1/0 AL URD	7.07Y	117.8	0.01	7.23	6.13	4	42	11	97	0.00	0.0	5.070	0.092	18	5	2	4 L
L PL.53211	PL.53372	A	1/0 AL URD	7.07Y	117.8	0.00	7.23	3.53	2	24	6	97	0.00	0.0	5.150	0.080	24	7	2	2 L
L PL.53213	PL.53211	A	1/0 AL URD	7.07Y	117.8	-0.00	7.23	-0.03	0	0	0	100	0.00	0.0	5.216	0.066	0	0	0	0 L
L PL.53435	PL.53373	A	1/0 AL URD	7.07Y	117.8	0.00	7.18	2.78	2	19	5	97	0.00	0.0	4.913	0.025	19	6	1	1 L
L PL.53368	PL.53367	A	1/0 AL URD	7.07Y	117.8	0.00	7.16	4.06	2	28	8	96	0.00	0.0	4.864	0.031	28	8	2	2 L
PL.53379	PL.53369	A	1/0 AL URD	7.09Y	118.2	0.00	6.79	1.36	1	9	3	95	0.00	0.0	4.441	0.023	9	3	1	1
PL.53376	PL.53369	A	1/0 AL URD	7.09Y	118.2	0.00	6.79	4.39	3	30	8	97	0.00	0.0	4.438	0.020	12	3	1	3
PL.64377	PL.53376	A	1/0 AL URD	7.09Y	118.2	0.00	6.80	2.70	2	18	5	96	0.00	0.0	4.499	0.061	18	5	2	2
PL.53208	PL.53429	A	1/0 AL URD	7.10Y	118.4	0.00	6.59	1.36	1	9	2	98	0.00	0.0	4.353	0.109	9	3	1	1
PL.53430	PL.53428	A	1/0 AL URD	7.11Y	118.5	0.00	6.47	2.29	1	16	4	97	0.00	0.0	4.226	0.075	16	5	1	1
PL.60937	PL.60931	A	#1/0 ACSR	7.13Y	118.9	0.00	6.11	0.00	0	0	0	100	0.00	0.0	3.914	0.003	0	0	0	0
PL.60932	PL.60933	B	1/0 AL URD	7.13Y	118.9	0.00	6.11	57.87	34	398	110	96	0.01	0.0	3.885	0.002	0	0	0	31
PD.8892	PL.60932	B	80T	7.13Y	118.9	0.00	6.11	57.87	0	398	110	96	0.00	0.0	3.885	0.002	0	0	0	31
PL.59578	PD.8892	B	1/0 AL URD	7.13Y	118.8	0.10	6.21	57.84	34	398	110	96	0.31	0.1	3.942	0.057	37	11	3	30
PL.53405	PL.59578	B	1/0 AL URD	7.12Y	118.7	0.06	6.26	52.52	31	361	100	96	0.17	0.0	3.977	0.035	0	0	0	27
PL.55844	PL.53405	B	1/0 AL URD	7.12Y	118.6	0.09	6.35	50.62	30	348	96	96	0.25	0.1	4.033	0.056	0	0	0	24
PL.55847	PL.55844	B	1/0 AL URD	7.11Y	118.5	0.14	6.49	47.69	28	327	91	96	0.37	0.1	4.126	0.093	0	0	0	22
PL.55849	PL.55847	B	1/0 AL URD	7.11Y	118.5	0.00	6.49	1.75	1	12	3	97	0.00	0.0	4.176	0.050	12	3	1	1
PL.55848	PL.55847	B	1/0 AL URD	7.11Y	118.5	0.01	6.50	45.96	27	315	88	96	0.03	0.0	4.135	0.009	0	0	0	21
PL.55845	PL.55848	B	1/0 AL URD	7.11Y	118.5	0.01	6.52	45.96	27	315	88	96	0.03	0.0	4.142	0.008	0	0	0	21
PL.53427	PL.55845	B	1/0 AL URD	7.11Y	118.5	0.00	6.52	45.96	27	315	88	96	0.00	0.0	4.143	0.000	16	5	1	21
PL.53426	PL.53427	B	1/0 AL URD	7.10Y	118.3	0.18	6.70	43.61	26	299	83	96	0.43	0.1	4.280	0.137	21	6	2	20
PL.53215	PL.53426	B	1/0 AL URD	7.09Y	118.1	0.18	6.87	40.53	24	277	77	96	0.41	0.1	4.420	0.140	0	0	0	18

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

Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.53216	PL.53215	B	1/0 AL URD	7.09Y	118.1	0.00	6.87	-0.01	0	0	0	100	0.00	0.0	4.431	0.012	0	0	0	0
PL.53440	PL.53215	B	1/0 AL URD	7.08Y	118.0	0.12	7.00	40.55	24	277	77	96	0.28	0.1	4.518	0.099	13	4	1	18
L PL.53441	PL.53440	B	1/0 AL URD	7.08Y	117.9	0.07	7.06	38.63	23	263	74	96	0.14	0.1	4.573	0.054	0	0	0	17 L
L PL.53442	PL.53441	B	1/0 AL URD	7.07Y	117.8	0.14	7.20	30.79	18	210	59	96	0.24	0.1	4.718	0.146	0	0	0	14 L
L PL.53365	PL.53442	B	1/0 AL URD	7.07Y	117.8	0.03	7.23	22.52	13	153	43	96	0.04	0.0	4.760	0.042	0	0	0	11 L
L PL.53364	PL.53365	B	1/0 AL URD	7.07Y	117.8	0.01	7.24	4.92	3	33	9	96	0.00	0.0	4.858	0.098	33	10	2	2 L
L PL.53378	PL.53365	B	1/0 AL URD	7.07Y	117.8	0.00	7.24	5.48	3	37	11	96	0.00	0.0	4.778	0.018	37	11	2	2 L
L PL.53366	PL.53365	B	1/0 AL URD	7.07Y	117.8	0.01	7.25	12.12	7	83	23	96	0.01	0.0	4.803	0.042	26	8	3	7 L
L PL.53210	PL.53366	B	1/0 AL URD	7.06Y	117.7	0.00	7.25	8.27	5	56	16	96	0.00	0.0	4.822	0.019	18	5	1	4 L
L PL.53212	PL.53210	B	1/0 AL URD	7.06Y	117.7	0.01	7.26	2.56	2	18	4	98	0.00	0.0	4.923	0.101	0	0	0	2 L
L PL.53214	PL.53212	B	1/0 AL URD	7.06Y	117.7	0.00	7.26	-0.00	0	0	0	100	0.00	0.0	4.927	0.005	0	0	0	0 L
L PL.53380	PL.53212	B	1/0 AL URD	7.06Y	117.7	0.00	7.26	2.57	2	18	5	96	0.00	0.0	4.951	0.029	5	1	1	2 L
L PL.53381	PL.53380	B	1/0 AL URD	7.06Y	117.7	0.00	7.26	1.83	1	12	3	97	0.00	0.0	4.997	0.045	12	4	1	1 L
L PL.53377	PL.53210	B	1/0 AL URD	7.06Y	117.7	0.00	7.25	3.00	2	20	6	96	0.00	0.0	4.873	0.051	20	6	1	1 L
L PL.53439	PL.53442	B	1/0 AL URD	7.07Y	117.8	0.00	7.21	1.32	1	9	2	98	0.00	0.0	4.775	0.057	9	3	1	1 L
L PL.53434	PL.53442	B	1/0 AL URD	7.07Y	117.8	0.00	7.21	6.97	4	47	14	96	0.00	0.0	4.764	0.045	47	14	2	2 L
L PL.53443	PL.53441	B	1/0 AL URD	7.08Y	117.9	0.01	7.07	7.85	5	53	15	96	0.00	0.0	4.616	0.044	13	4	1	3 L
L PL.53446	PL.53443	B	1/0 AL URD	7.08Y	117.9	0.00	7.07	5.96	4	40	12	96	0.00	0.0	4.633	0.017	40	12	2	2 L
PL.55846	PL.55844	B	1/0 AL URD	7.12Y	118.6	0.00	6.36	2.93	2	20	6	96	0.00	0.0	4.082	0.049	20	6	2	2
PL.53406	PL.53405	B	1/0 AL URD	7.12Y	118.7	0.00	6.27	1.90	1	13	4	96	0.00	0.0	4.019	0.042	13	4	3	3
PL.59579	PD.8892	B	1/0 AL URD	7.13Y	118.9	0.00	6.11	0.03	0	0	0	100	0.00	0.0	3.887	0.002	0	0	1	1
PL.60928	PL.42859	A	6 A (CWC)	7.14Y	119.0	0.00	6.00	5.39	4	37	11	96	0.00	0.0	3.760	0.006	0	0	0	3
PD.9071	PL.60928	A	65T	7.14Y	119.0	0.00	6.00	5.39	0	37	11	96	0.00	0.0	3.760	0.006	0	0	0	3
PL.60934	PD.9071	A	6 A (CWC)	7.14Y	119.0	0.00	6.01	5.39	4	37	11	96	0.00	0.0	3.779	0.019	0	0	0	3
PL.60936	PL.60934	A	#1/0 ACSR	7.14Y	119.0	0.00	6.01	0.00	0	0	0	100	0.00	0.0	3.833	0.054	0	0	0	0
PL.60935	PL.60934	A	6 A (CWC)	7.14Y	119.0	0.00	6.01	5.39	4	37	11	96	0.00	0.0	3.798	0.019	25	7	2	3
PL.60927	PL.60935	A	#1/0 ACSR	7.14Y	119.0	0.00	6.01	1.68	1	12	3	97	0.00	0.0	3.986	0.188	12	3	1	1
PL.42858	PL.41843	C	6 A (CWC)	7.14Y	119.1	0.00	5.94	1.93	1	13	4	96	0.00	0.0	3.688	0.006	0	0	0	1
PD.6765	PL.42858	C	60QA	7.14Y	119.1	0.00	5.94	1.93	3	13	4	96	0.00	0.0	3.688	0.006	0	0	0	1
PL.53363	PD.6765	C	6 A (CWC)	7.14Y	119.1	0.00	5.94	1.93	1	13	4	96	0.00	0.0	3.780	0.092	13	4	1	1
PL.41694	PL.41541	A	#4 ACSR	7.16Y	119.3	0.00	5.74	4.09	3	28	8	96	0.00	0.0	3.460	0.006	0	0	0	3

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

Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.6764	PL.41694	A	60QA	7.16Y	119.3	0.00	5.74	4.09	7	28	8	96	0.00	0.0	3.460	0.006	0	0	0	3
PL.41647	PD.6764	A	#4 ACSR	7.16Y	119.3	0.01	5.75	4.09	3	28	8	96	0.00	0.0	3.512	0.052	3	1	1	3
PL.41648	PL.41647	A	#4 ACSR	7.16Y	119.3	0.00	5.75	3.62	3	25	7	96	0.00	0.0	3.539	0.027	17	5	1	2
PL.41274	PL.41648	A	#4 ACSR	7.16Y	119.3	0.00	5.75	1.18	1	8	2	97	0.00	0.0	3.568	0.029	8	2	1	1
PL.43457	PL.43455	B	#4 ACSR	7.17Y	119.5	0.00	5.53	1.72	1	12	3	97	0.00	0.0	3.291	0.006	0	0	0	3
PD.6422	PL.43457	B	60QA	7.17Y	119.5	0.00	5.53	1.72	3	12	3	97	0.00	0.0	3.291	0.006	0	0	0	3
PL.42747	PD.6422	B	#4 ACSR	7.17Y	119.5	0.00	5.53	1.72	1	12	3	97	0.00	0.0	3.325	0.034	8	2	2	3
PL.54364	PL.42747	B	#4 ACSR	7.17Y	119.5	0.00	5.53	0.50	0	3	1	95	0.00	0.0	3.375	0.050	3	1	1	1
PL.43349	PL.53685	A	6 A (CWC)	7.18Y	119.7	0.00	5.28	9.55	7	66	19	96	0.00	0.0	3.129	0.006	0	0	0	8
PD.6509	PL.43349	A	60QA	7.18Y	119.7	0.00	5.28	9.55	16	66	19	96	0.00	0.0	3.129	0.006	0	0	0	8
PL.43379	PD.6509	A	6 A (CWC)	7.18Y	119.7	0.01	5.28	9.55	7	66	19	96	0.00	0.0	3.150	0.021	10	3	1	8
PL.43437	PL.43379	A	6 A (CWC)	7.18Y	119.7	0.05	5.33	8.14	6	56	16	96	0.02	0.0	3.277	0.127	0	0	0	7
PL.41845	PL.43437	A	#4 ACSR	7.18Y	119.7	0.00	5.33	2.06	2	14	4	96	0.00	0.0	3.329	0.052	14	4	2	2
PL.43438	PL.43437	A	6 A (CWC)	7.18Y	119.7	0.01	5.34	6.08	4	42	12	96	0.00	0.0	3.301	0.024	0	0	0	5
PL.41682	PL.43438	A	6 A (CWC)	7.18Y	119.7	0.00	5.34	1.07	1	7	2	96	0.00	0.0	3.372	0.070	7	2	1	1
PL.43451	PL.43438	A	6 A (CWC)	7.18Y	119.7	0.01	5.34	5.01	4	35	10	96	0.00	0.0	3.331	0.030	16	5	2	4
PL.43452	PL.43451	A	6 A (CWC)	7.18Y	119.7	0.00	5.35	2.70	2	19	5	97	0.00	0.0	3.376	0.044	8	2	1	2
PL.43453	PL.43452	A	6 A (CWC)	7.18Y	119.7	0.00	5.35	1.47	1	10	3	96	0.00	0.0	3.437	0.062	10	3	1	1
PL.53687	PL.53686	C	#1/0 ACSR	7.19Y	119.8	0.00	5.18	1.77	1	12	3	97	0.00	0.0	3.071	0.003	0	0	0	1
PD.8143	PL.53687	C	20QA	7.19Y	119.8	0.00	5.18	1.77	9	12	3	97	0.00	0.0	3.071	0.003	0	0	0	1
PL.53688	PD.8143	C	#1/0 ACSR	7.19Y	119.8	0.00	5.18	1.77	1	12	3	97	0.00	0.0	3.127	0.056	0	0	0	1
PL.53689	PL.53688	C	1/0 AL URD	7.19Y	119.8	0.00	5.18	1.77	1	12	3	97	0.00	0.0	3.176	0.049	12	4	1	1
PL.52984	PL.53390	A	#1/0 ACSR	7.20Y	119.9	0.00	5.06	1.78	1	12	4	95	0.00	0.0	3.001	0.003	0	0	0	1
PD.8099	PL.52984	A	20QA	7.20Y	119.9	0.00	5.06	1.78	9	12	4	95	0.00	0.0	3.001	0.003	0	0	0	1
PL.52985	PD.8099	A	#1/0 ACSR	7.20Y	119.9	0.00	5.06	1.78	1	12	4	95	0.00	0.0	3.107	0.106	12	4	1	1
PL.53312	PL.53315	C	6 A (CWC)	7.21Y	120.2	0.00	4.84	1.97	1	14	4	96	0.00	0.0	2.880	0.006	0	0	0	1
PD.6500	PL.53312	C	60QA	7.21Y	120.2	0.00	4.84	1.97	3	14	4	96	0.00	0.0	2.880	0.006	0	0	0	1
PL.53311	PD.6500	C	6 A (CWC)	7.21Y	120.2	0.00	4.84	1.97	1	14	4	96	0.00	0.0	2.917	0.036	14	4	1	1
PL.53313	PL.53315	A	#1/0 ACSR	7.21Y	120.2	0.00	4.84	2.00	1	14	4	96	0.00	0.0	2.880	0.006	0	0	0	1
PD.6497	PL.53313	A	40QA	7.21Y	120.2	0.00	4.84	2.00	5	14	4	96	0.00	0.0	2.880	0.006	0	0	0	1
PL.53316	PD.6497	A	#1/0 ACSR	7.21Y	120.2	0.00	4.84	2.00	1	14	4	96	0.00	0.0	2.907	0.027	14	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: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.53320	PL.59026	ABC	1/0 AL URD	7.22Y	120.4	0.00	4.63	4.93	3	104	26	97	0.00	0.0	2.688	0.002	0	0	0	8
PD.8094	PL.53320	ABC	40QA	7.22Y	120.4	0.00	4.63	4.93	12	104	26	97	0.00	0.0	2.688	0.002	0	0	0	8
PL.53321	PD.8094	ABC	1/0 AL URD	7.22Y	120.4	0.00	4.63	4.93	3	104	26	97	0.00	0.0	2.694	0.006	0	0	0	8
PL.53319	PL.53321	ABC	1/0 AL URD	7.22Y	120.4	0.01	4.64	4.93	3	104	26	97	0.01	0.0	2.778	0.083	28	8	3	8
PL.53325	PL.53319	ABC	1/0 AL URD	7.22Y	120.4	0.00	4.64	3.58	2	75	18	97	0.00	0.0	2.800	0.023	0	0	0	5
PL.53327	PL.53325	C	1/0 AL URD	7.22Y	120.4	0.01	4.65	10.81	6	75	20	97	0.01	0.0	2.833	0.033	24	7	1	5
PL.53328	PL.53327	C	1/0 AL URD	7.22Y	120.3	0.01	4.66	7.32	4	51	14	96	0.01	0.0	2.890	0.056	0	0	0	4
PL.53329	PL.53328	C	1/0 AL URD	7.22Y	120.3	0.01	4.67	7.33	4	51	14	96	0.00	0.0	2.935	0.045	0	0	0	4
PL.53330	PL.53329	C	1/0 AL URD	7.22Y	120.3	0.01	4.68	7.33	4	51	14	96	0.00	0.0	2.970	0.035	10	3	1	4
PL.53331	PL.53330	C	1/0 AL URD	7.22Y	120.3	0.01	4.69	5.93	3	41	11	97	0.00	0.0	3.012	0.041	0	0	0	3
PL.53332	PL.53331	C	1/0 AL URD	7.22Y	120.3	0.01	4.70	5.94	3	41	11	97	0.00	0.0	3.120	0.108	22	6	2	3
PL.53333	PL.53332	C	1/0 AL URD	7.22Y	120.3	0.00	4.70	2.83	2	20	5	97	0.00	0.0	3.199	0.079	20	6	1	1
PL.53326	PL.53325	ABC	1/0 AL URD	7.22Y	120.4	-0.00	4.64	-0.08	0	0	-2	0	0.00	0.0	2.946	0.146	0	0	0	0
P PL.53317	PL.53326	ABC	1/0 AL URD	7.22Y	120.4	0.00	4.64	-0.00	0	0	0	100	0.00	0.0	2.954	0.008	0	0	0	0 P
PL.59025	PL.59030	ABC	336 MCM AC	7.23Y	120.4	0.00	4.55	5.55	1	115	34	96	0.00	0.0	2.709	0.088	0	0	0	14
PL.51808	PL.59025	ABC	#3/0 ACSR	7.23Y	120.4	0.00	4.55	0.65	0	13	4	96	0.00	0.0	2.746	0.037	13	4	1	1
PL.51809	PL.59025	ABC	#3/0 ACSR	7.23Y	120.4	0.00	4.56	4.90	2	102	30	96	0.00	0.0	2.773	0.064	12	3	1	13
PL.43734	PL.51809	ABC	#3/0 ACSR	7.23Y	120.4	0.01	4.57	4.33	1	90	26	96	0.01	0.0	2.955	0.183	1	0	1	12
PL.43564	PL.43734	ABC	#3/0 ACSR	7.23Y	120.4	0.00	4.57	4.29	1	89	26	96	0.00	0.0	3.027	0.071	0	0	0	11
PL.54120	PL.43564	ABC	#2 ACSR	7.23Y	120.4	0.00	4.57	2.37	1	49	14	96	0.00	0.0	3.055	0.028	8	2	1	6
PL.54121	PL.54120	C	#2 ACSR	7.23Y	120.4	0.00	4.57	4.09	2	28	8	96	0.00	0.0	3.061	0.006	0	0	0	4
PD.6738	PL.54121	C	40QA	7.23Y	120.4	0.00	4.57	4.09	10	28	8	96	0.00	0.0	3.061	0.006	0	0	0	4
PL.43563	PD.6738	C	#2 ACSR	7.23Y	120.4	0.00	4.58	4.09	2	28	8	96	0.00	0.0	3.128	0.067	28	8	4	4
PL.54122	PL.54120	ABC	#2 ACSR	7.23Y	120.4	0.00	4.57	0.65	0	13	4	96	0.00	0.0	3.253	0.198	13	4	1	1
PL.43733	PL.54122	ABC	#2 ACSR	7.23Y	120.4	0.00	4.57	0.00	0	0	0	100	0.00	0.0	3.284	0.031	0	0	0	0
PL.57364	PL.43564	ABC	#3/0 ACSR	7.23Y	120.4	0.00	4.57	0.18	0	4	1	97	0.00	0.0	3.067	0.041	4	1	1	1
PL.57368	PL.57364	ABC	#3/0 ACSR	7.23Y	120.4	0.00	4.57	0.00	0	0	0	100	0.00	0.0	3.135	0.067	0	0	0	0
PD.8356-B	PL.57368	ABC	Open	7.23Y	120.4	0.00	4.57	0.00	0	0	0	100	0.00	0.0	3.135	0.067	0	0	0	0
PL.43562	PL.43564	A	6 A (CWC)	7.23Y	120.4	0.00	4.57	5.20	4	36	11	96	0.00	0.0	3.033	0.006	0	0	0	4
PD.6499	PL.43562	A	60QA	7.23Y	120.4	0.00	4.57	5.20	9	36	11	96	0.00	0.0	3.033	0.006	0	0	0	4
PL.43736	PD.6499	A	6 A (CWC)	7.22Y	120.4	0.02	4.59	5.20	4	36	11	96	0.00	0.0	3.118	0.085	16	5	2	4

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.43737	PL.43736	A	6 A (CWC)	7.22Y	120.4	0.00	4.59	2.91	2	20	6	96	0.00	0.0	3.150	0.032	13	4	1	2
PL.43735	PL.43737	A	6 A (CWC)	7.22Y	120.4	0.00	4.59	1.10	1	8	2	97	0.00	0.0	3.237	0.088	8	2	1	1
PL.59028	PL.59027	C	#2 ACSR	7.25Y	120.8	0.00	4.19	1.54	1	11	3	96	0.00	0.0	2.335	0.003	0	0	0	1
PD.8696	PL.59028	C	20T	7.25Y	120.8	0.00	4.19	1.54	0	11	3	96	0.00	0.0	2.335	0.003	0	0	0	1
PL.58499	PD.8696	C	#2 ACSR	7.25Y	120.8	0.00	4.19	1.54	1	11	3	96	0.00	0.0	2.364	0.029	11	3	1	1
PL.59029	PL.59027	B	#4 ACSR	7.25Y	120.8	0.00	4.19	5.64	4	39	11	96	0.00	0.0	2.335	0.003	0	0	0	3
PD.8697	PL.59029	B	20T	7.25Y	120.8	0.00	4.19	5.64	0	39	11	96	0.00	0.0	2.335	0.003	0	0	0	3
PL.58500	PD.8697	B	#4 ACSR	7.25Y	120.8	0.01	4.20	5.64	4	39	11	96	0.00	0.0	2.381	0.046	0	0	0	3
PL.58498	PL.58500	B	1/0 AL URD	7.25Y	120.8	0.00	4.20	4.61	3	32	9	96	0.00	0.0	2.387	0.006	0	0	0	2
PD.6498	PL.58498	B	25QA	7.25Y	120.8	0.00	4.20	4.62	18	32	9	96	0.00	0.0	2.387	0.006	0	0	0	2
PL.43208	PD.6498	B	1/0 AL URD	7.25Y	120.8	0.00	4.21	4.62	3	32	9	96	0.00	0.0	2.428	0.041	32	9	2	2
P PL.43207	PL.43208	B	1/0 AL URD	7.25Y	120.8	-0.00	4.21	-0.04	0	0	0	100	0.00	0.0	2.506	0.078	0	0	0	0 P
PL.58497	PL.58500	B	6 A (CWC)	7.25Y	120.8	0.00	4.21	1.03	1	7	2	96	0.00	0.0	2.515	0.134	7	2	1	1
PL.43200	PL.52991	B	6 A (CWC)	7.26Y	121.0	0.00	4.05	17.50	12	122	35	96	0.00	0.0	2.221	0.006	0	0	0	11
PD.6656	PL.43200	B	60QA	7.26Y	121.0	0.00	4.05	17.50	29	122	35	96	0.00	0.0	2.221	0.006	0	0	0	11
PL.43201	PD.6656	B	6 A (CWC)	7.25Y	120.9	0.04	4.09	17.50	12	122	35	96	0.04	0.0	2.272	0.052	12	4	2	11
PL.41839	PL.43201	B	6 A (CWC)	7.25Y	120.9	0.01	4.10	2.49	2	17	5	96	0.00	0.0	2.388	0.116	4	1	1	4
PL.43347	PL.41839	B	6 A (CWC)	7.25Y	120.9	0.01	4.11	1.92	1	13	4	96	0.00	0.0	2.499	0.111	3	1	1	3
PL.41700	PL.43347	B	#4 ACSR	7.25Y	120.9	0.00	4.11	1.47	1	10	3	96	0.00	0.0	2.539	0.040	10	3	1	1
PL.43348	PL.43347	B	6 A (CWC)	7.25Y	120.9	0.00	4.11	0.02	0	0	0	100	0.00	0.0	2.564	0.065	0	0	1	1
PL.43202	PL.43201	B	6 A (CWC)	7.25Y	120.9	0.03	4.11	13.26	9	92	27	96	0.02	0.0	2.315	0.043	0	0	1	5
PL.43203	PL.43202	B	6 A (CWC)	7.25Y	120.9	0.04	4.15	13.20	9	92	27	96	0.03	0.0	2.379	0.064	0	0	0	4
PL.43209	PL.43203	B	6 A (CWC)	7.25Y	120.9	0.00	4.15	0.00	0	0	0	100	0.00	0.0	2.443	0.064	0	0	0	0
PL.43210	PL.43209	B	#4 ACSR	7.25Y	120.9	0.00	4.15	0.00	0	0	0	100	0.00	0.0	2.470	0.026	0	0	0	0
PL.41884	PL.43203	B	#4 ACSR	7.25Y	120.8	0.03	4.18	13.20	10	92	26	96	0.02	0.0	2.449	0.070	30	9	1	4
PL.43204	PL.41884	B	1/0 AL URD	7.25Y	120.8	0.00	4.19	8.85	5	62	18	96	0.00	0.0	2.455	0.006	0	0	0	3
PD.6688	PL.43204	B	30QA	7.25Y	120.8	0.00	4.19	8.85	30	62	18	96	0.00	0.0	2.455	0.006	0	0	0	3
PL.43205	PD.6688	B	1/0 AL URD	7.25Y	120.8	0.01	4.20	8.85	5	62	18	96	0.00	0.0	2.525	0.070	62	18	3	3
P PL.43206	PL.43205	B	1/0 AL URD	7.25Y	120.8	0.00	4.20	-0.01	0	0	0	100	0.00	0.0	2.536	0.011	0	0	0	0 P
PL.52990	PL.52989	C	#4 ACSR	7.28Y	121.4	0.00	3.62	5.63	4	39	11	96	0.00	0.0	1.912	0.006	0	0	0	4
PD.6776	PL.52990	C	60QA	7.28Y	121.4	0.00	3.62	5.63	9	39	11	96	0.00	0.0	1.912	0.006	0	0	0	4

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.52988	PD.6776	C	#4 ACSR	7.28Y	121.4	0.01	3.63	5.63	4	39	11	96	0.00	0.0	1.982	0.069	39	11	4	4
PL.42715	PL.64455	C	6 A (CWC)	7.29Y	121.5	0.00	3.51	7.47	5	52	15	96	0.00	0.0	1.838	0.006	0	0	0	9
PD.6687	PL.42715	C	60QA	7.29Y	121.5	0.00	3.51	7.47	12	52	15	96	0.00	0.0	1.838	0.006	0	0	0	9
PL.64741	PD.6687	C	6 A (CWC)	7.29Y	121.5	0.01	3.52	7.47	5	52	15	96	0.00	0.0	1.860	0.021	3	1	1	9
PL.64742	PL.64741	C	6 A (CWC)	7.29Y	121.5	0.01	3.53	7.04	5	49	14	96	0.00	0.0	1.879	0.019	10	3	1	8
PL.52986	PL.64742	C	6 A (CWC)	7.29Y	121.5	0.01	3.53	5.57	4	39	11	96	0.00	0.0	1.913	0.034	14	4	2	7
PL.52987	PL.52986	C	6 A (CWC)	7.29Y	121.5	0.00	3.53	3.50	2	24	7	96	0.00	0.0	1.933	0.020	24	7	5	5
PL.42820	PL.42818	A	#2 ACSR	7.31Y	121.8	0.00	3.17	1.02	1	7	2	96	0.00	0.0	1.611	0.006	0	0	0	3
PD.6619	PL.42820	A	40QA	7.31Y	121.8	0.00	3.17	1.02	3	7	2	96	0.00	0.0	1.611	0.006	0	0	0	3
PL.42821	PD.6619	A	#2 ACSR	7.31Y	121.8	0.00	3.17	1.02	1	7	2	96	0.00	0.0	1.617	0.006	7	2	3	3
PL.41640	PL.42812	ABC	336 MCM AC	7.35Y	122.5	0.04	2.47	60.36	12	1278	374	96	0.25	0.0	1.220	0.081	0	0	0	152
PL.51934	PL.41640	B	#4/0 ACSR	7.35Y	122.5	0.00	2.47	3.06	1	22	6	96	0.00	0.0	1.240	0.020	22	6	2	2
PL.51935	PL.41640	ABC	336 MCM AC	7.35Y	122.5	0.03	2.50	59.34	11	1256	367	96	0.17	0.0	1.276	0.057	2	1	1	150
PL.51939	PL.51935	ABC	336 MCM AC	7.35Y	122.5	0.01	2.51	59.23	11	1254	366	96	0.08	0.0	1.304	0.027	0	0	0	149
PL.51940	PL.51939	A	6 A (CWC)	7.35Y	122.4	0.06	2.57	68.12	49	481	139	96	0.22	0.0	1.323	0.020	0	0	0	58
PL.51937	PL.51940	A	6 A (CWC)	7.35Y	122.4	0.01	2.58	68.12	49	481	139	96	0.02	0.0	1.326	0.002	0	0	0	58
C PD.7958	PL.51937	A	35H	7.35Y	122.4	0.00	2.58	68.12	195	481	139	96	0.00	0.0	1.326	0.002	0	0	0	58 C
PL.51938	PD.7958	A	6 A (CWC)	7.34Y	122.3	0.13	2.70	68.12	49	481	139	96	0.45	0.1	1.367	0.041	14	4	1	58
PL.51936	PL.51938	A	#2 ACSR	7.34Y	122.3	0.00	2.71	2.18	1	15	4	97	0.00	0.0	1.410	0.043	15	4	2	2
PL.41925	PL.51938	A	6 A (CWC)	7.33Y	122.1	0.17	2.87	63.98	46	451	130	96	0.56	0.1	1.423	0.057	3	1	1	55
PL.63719	PL.41925	A	6 A (CWC)	7.31Y	121.9	0.26	3.13	63.60	45	448	129	96	0.87	0.2	1.514	0.091	10	3	1	54
PL.63720	PL.63719	A	6 A (CWC)	7.29Y	121.5	0.39	3.52	62.18	44	437	126	96	1.29	0.3	1.651	0.137	0	0	0	53
PL.63721	PL.63720	A	6 A (CWC)	7.26Y	121.0	0.46	3.99	58.91	42	413	118	96	1.45	0.4	1.823	0.171	0	0	0	50
PL.54379	PL.63721	A	6 A (CWC)	7.25Y	120.9	0.15	4.14	41.53	30	290	82	96	0.33	0.1	1.903	0.080	11	3	3	36
PL.54377	PL.54379	A	6 A (CWC)	7.24Y	120.7	0.17	4.31	39.99	29	279	79	96	0.36	0.1	1.999	0.096	11	3	1	33
PL.54300	PL.54377	A	6 A (CWC)	7.24Y	120.6	0.04	4.35	38.45	27	268	75	96	0.08	0.0	2.022	0.023	3	1	1	32
PL.54301	PL.54300	A	6 A (CWC)	7.23Y	120.4	0.20	4.55	38.09	27	265	75	96	0.41	0.2	2.139	0.116	0	0	0	31
PL.41926	PL.54301	A	#4 ACSR	7.23Y	120.4	0.02	4.57	12.85	10	89	26	96	0.01	0.0	2.174	0.035	14	4	2	17
PL.41861	PL.41926	A	#2 ACSR	7.23Y	120.4	0.00	4.57	0.03	0	0	0	100	0.00	0.0	2.219	0.045	0	0	0	1
PL.72567	PL.41861	A	#1/0 ACSR	7.23Y	120.4	0.00	4.57	0.03	0	0	0	100	0.00	0.0	2.293	0.074	0	0	1	1
PL.41927	PL.41926	A	#4 ACSR	7.22Y	120.4	0.02	4.59	10.77	8	75	22	96	0.01	0.0	2.216	0.042	20	6	6	14

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

Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.41928	PL.41927	A	#4 ACSR	7.22Y	120.4	0.01	4.60	7.82	6	54	16	96	0.00	0.0	2.269	0.053	27	8	3	8
PL.43458	PL.41928	A	#4 ACSR	7.22Y	120.4	0.01	4.62	3.89	3	27	8	96	0.00	0.0	2.339	0.070	3	1	1	5
PL.43459	PL.43458	A	#4 ACSR	7.22Y	120.4	0.01	4.62	3.49	3	24	7	96	0.00	0.0	2.409	0.070	24	7	4	4
PL.43460	PL.54301	A	6 A (CWC)	7.22Y	120.4	0.03	4.59	21.38	15	149	41	96	0.04	0.0	2.175	0.037	12	3	1	12
PL.43461	PL.43460	A	6 A (CWC)	7.22Y	120.4	0.03	4.61	17.13	12	120	32	97	0.02	0.0	2.212	0.037	26	8	2	9
PL.41686	PL.43461	A	6 A (CWC)	7.22Y	120.4	0.01	4.62	4.24	3	29	9	96	0.00	0.0	2.268	0.057	29	9	1	1
PL.43462	PL.43461	A	6 A (CWC)	7.22Y	120.4	0.02	4.63	9.13	7	64	16	97	0.01	0.0	2.273	0.061	25	7	3	6
PL.54737	PL.43462	A	6 A (CWC)	7.22Y	120.4	0.01	4.64	5.50	4	39	8	98	0.00	0.0	2.322	0.049	27	8	2	3
PL.61665	PL.54737	A	1/0 AL URD	7.22Y	120.4	0.00	4.65	1.64	1	12	1	100	0.00	0.0	2.404	0.082	0	0	0	1
PL.61683	PL.61665	A	1/0 AL URD	7.22Y	120.3	0.00	4.65	1.68	1	12	3	97	0.00	0.0	2.494	0.090	0	0	0	1
PL.61684	PL.61683	A	1/0 AL URD	7.22Y	120.3	0.00	4.65	1.70	1	12	3	97	0.00	0.0	2.539	0.045	12	3	1	1
PL.61682	PL.61684	A	1/0 AL URD	7.22Y	120.3	0.00	4.65	-0.00	0	0	0	100	0.00	0.0	2.546	0.007	0	0	0	0
PL.61678	PL.61665	A	1/0 AL URD	7.22Y	120.4	-0.00	4.65	-0.15	0	0	-1	0	0.00	0.0	2.466	0.062	0	0	0	0
PL.61679	PL.61678	A	1/0 AL URD	7.22Y	120.4	-0.00	4.65	-0.11	0	0	-1	0	0.00	0.0	2.541	0.075	0	0	0	0
PL.61680	PL.61679	A	1/0 AL URD	7.22Y	120.4	-0.00	4.65	-0.08	0	0	-1	0	0.00	0.0	2.588	0.047	0	0	0	0
PL.61681	PL.61680	A	1/0 AL URD	7.22Y	120.4	-0.00	4.65	-0.05	0	0	0	100	0.00	0.0	2.685	0.096	0	0	0	0
PL.61666	PL.61665	A	1/0 AL URD	7.22Y	120.4	-0.00	4.65	-0.14	0	0	-1	0	0.00	0.0	2.448	0.044	0	0	0	0
PL.61667	PL.61666	A	1/0 AL URD	7.22Y	120.4	-0.00	4.65	-0.12	0	0	-1	0	0.00	0.0	2.516	0.068	0	0	0	0
PL.61668	PL.61667	A	1/0 AL URD	7.22Y	120.4	-0.00	4.65	-0.08	0	0	-1	0	0.00	0.0	2.581	0.065	0	0	0	0
PL.61669	PL.61668	A	1/0 AL URD	7.22Y	120.4	-0.00	4.65	-0.05	0	0	0	100	0.00	0.0	2.633	0.051	0	0	0	0
PL.61670	PL.61669	A	1/0 AL URD	7.22Y	120.4	0.00	4.65	-0.02	0	0	0	100	0.00	0.0	2.676	0.043	0	0	0	0
PL.54738	PL.54737	A	6 A (CWC)	7.22Y	120.4	0.00	4.64	0.00	0	0	0	100	0.00	0.0	2.325	0.003	0	0	0	0
PL.41705	PL.43460	A	6 A (CWC)	7.22Y	120.4	0.00	4.59	2.53	2	18	5	96	0.00	0.0	2.200	0.025	18	5	2	2
PL.41491	PL.54301	A	6 A (CWC)	7.23Y	120.4	0.00	4.56	3.85	3	27	8	96	0.00	0.0	2.165	0.026	27	8	2	2
PL.63246	PL.54377	A	6 A (CWC)	7.24Y	120.7	0.00	4.31	0.00	0	0	0	100	0.00	0.0	2.003	0.004	0	0	0	0
PL.54378	PL.63721	A	#4 ACSR	7.26Y	121.0	0.05	4.04	17.38	13	121	35	96	0.04	0.0	1.904	0.081	52	15	8	14
PL.54302	PL.54378	A	#4 ACSR	7.26Y	121.0	0.01	4.05	9.93	8	69	20	96	0.00	0.0	1.945	0.041	69	20	6	6
PL.63718	PL.63720	A	#2 ACSR	7.29Y	121.5	0.00	3.53	3.27	2	23	7	96	0.00	0.0	1.706	0.055	23	7	3	3
PL.51941	PL.51939	B	#1/0 ACSR	7.35Y	122.5	0.00	2.51	2.16	1	15	4	97	0.00	0.0	1.339	0.035	0	0	0	1
PD.7959	PL.51941	B	10QA	7.35Y	122.5	0.00	2.51	2.16	0	15	4	97	0.00	0.0	1.339	0.035	0	0	0	1
PL.51942	PD.7959	B	#1/0 ACSR	7.35Y	122.5	0.00	2.51	2.16	1	15	4	97	0.00	0.0	1.341	0.002	15	4	1	1

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

Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.64517	PL.51939	ABC	#1/0 ACSR	7.35Y	122.5	0.00	2.51	35.80	16	758	222	96	0.00	0.0	1.304	0.000	0	0	0	90
PL.64518	PL.64517	ABC	#1/0 ACSR	7.35Y	122.5	0.01	2.52	35.80	16	758	222	96	0.04	0.0	1.315	0.011	0	0	0	90
PL.51990	PL.64518	ABC	#1/0 ACSR	7.35Y	122.5	0.00	2.52	35.80	16	757	222	96	0.00	0.0	1.315	0.001	0	0	0	90
PD.8001	PL.51990	ABC	50L	7.35Y	122.5	0.00	2.52	35.80	72	757	222	96	0.00	0.0	1.315	0.001	0	0	0	90
PL.54074	PD.8001	ABC	#1/0 ACSR	7.35Y	122.5	0.03	2.54	35.80	16	757	222	96	0.13	0.0	1.355	0.040	15	4	1	90
PL.54075	PL.54074	ABC	#1/0 ACSR	7.35Y	122.4	0.02	2.57	35.09	15	742	217	96	0.12	0.0	1.392	0.037	0	0	0	89
PL.51946	PL.54075	A	#4 ACSR	7.35Y	122.4	0.00	2.57	2.27	2	16	5	95	0.00	0.0	1.405	0.013	16	5	3	3
PL.51947	PL.54075	ABC	#1/0 ACSR	7.34Y	122.4	0.06	2.63	34.33	15	726	212	96	0.30	0.0	1.489	0.096	0	0	0	86
PL.51943	PL.51947	A	6 A (CWC)	7.34Y	122.4	0.00	2.63	1.74	1	12	4	95	0.00	0.0	1.520	0.031	12	4	1	1
PL.51948	PL.51947	ABC	#1/0 ACSR	7.33Y	122.2	0.14	2.76	32.91	14	696	203	96	0.66	0.1	1.719	0.230	0	0	0	84
PL.42989	PL.51948	C	#2 ACSR	7.33Y	122.2	0.05	2.82	13.94	8	98	29	96	0.03	0.0	1.860	0.141	32	9	5	17
PL.42990	PL.42989	C	#2 ACSR	7.33Y	122.2	0.01	2.82	9.33	5	66	19	96	0.00	0.0	1.882	0.022	31	9	4	12
PL.42991	PL.42990	C	#2 ACSR	7.33Y	122.2	0.00	2.82	4.88	3	34	10	96	0.00	0.0	1.904	0.022	34	10	8	8
PL.62996	PL.42991	C	#1/0 ACSR	7.33Y	122.2	0.00	2.82	0.00	0	0	0	100	0.00	0.0	1.944	0.039	0	0	0	0
PL.62997	PL.62996	C	#1/0 ACSR	7.33Y	122.2	0.00	2.82	0.00	0	0	0	100	0.00	0.0	1.977	0.034	0	0	0	0
PL.61838	PL.51948	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.78	28.26	12	597	174	96	0.06	0.0	1.747	0.028	0	0	0	67
PL.61839	PL.61838	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	3.40	2	24	7	96	0.00	0.0	1.749	0.001	0	0	0	7
PD.7996	PL.61839	A	25T	7.33Y	122.2	0.00	2.78	3.40	0	24	7	96	0.00	0.0	1.749	0.001	0	0	0	7
PL.52019	PD.7996	A	6 A (CWC)	7.33Y	122.2	0.00	2.78	3.40	2	24	7	96	0.00	0.0	1.776	0.027	8	2	5	7
PL.52018	PL.52019	A	6 A (CWC)	7.33Y	122.2	0.01	2.79	2.24	2	16	5	95	0.00	0.0	1.876	0.100	0	0	1	2
PL.51949	PL.52018	A	6 A (CWC)	7.33Y	122.2	0.00	2.80	2.18	2	15	4	97	0.00	0.0	1.926	0.050	15	4	1	1
PL.61840	PL.61838	C	#4 ACSR	7.33Y	122.2	0.00	2.78	5.46	4	38	11	96	0.00	0.0	1.749	0.001	0	0	0	5
PD.9322	PL.61840	C	25T	7.33Y	122.2	0.00	2.78	5.46	0	38	11	96	0.00	0.0	1.749	0.001	0	0	0	5
PL.64287	PD.9322	C	#4 ACSR	7.33Y	122.1	0.10	2.88	5.46	4	38	11	96	0.03	0.1	2.147	0.399	0	0	0	5
PL.64289	PL.64287	C	#4 ACSR	7.33Y	122.1	0.01	2.89	2.42	2	17	5	96	0.00	0.0	2.239	0.091	0	0	0	1
PL.41752	PL.64289	C	#4 ACSR	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	2.340	0.101	0	0	0	0
PL.43259	PL.64289	C	#4 ACSR	7.33Y	122.1	0.00	2.89	2.42	2	17	5	96	0.00	0.0	2.265	0.027	17	5	1	1
PL.64288	PL.64287	C	#4 ACSR	7.33Y	122.1	0.01	2.89	3.05	2	21	6	96	0.00	0.0	2.257	0.110	0	0	1	4
PL.41581	PL.64288	C	1/0 AL URD	7.33Y	122.1	0.00	2.89	3.04	2	21	6	96	0.00	0.0	2.298	0.041	21	6	3	3
PL.64746	PL.61838	ABC	#1/0 ACSR	7.33Y	122.2	0.02	2.80	25.31	11	534	156	96	0.07	0.0	1.788	0.041	0	0	0	55
PL.64747	PL.64746	A	#4 ACSR	7.33Y	122.2	0.00	2.80	1.39	1	10	3	96	0.00	0.0	1.789	0.001	0	0	0	1

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.8048	PL.64747	A	20QA	7.33Y	122.2	0.00	2.80	1.39	7	10	3	96	0.00	0.0	1.789	0.001	0	0	0	1
PL.51556	PD.8048	A	#4 ACSR	7.33Y	122.2	0.00	2.80	1.39	1	10	3	96	0.00	0.0	1.808	0.019	10	3	1	1
PL.64748	PL.64746	ABC	#1/0 ACSR	7.33Y	122.1	0.07	2.86	24.84	11	525	153	96	0.24	0.0	1.932	0.144	0	0	0	54
PL.41396	PL.64748	C	#2 ACSR	7.33Y	122.1	0.00	2.86	0.04	0	0	0	100	0.00	0.0	2.002	0.070	0	0	1	1
PL.62976	PL.64748	ABC	#1/0 ACSR	7.33Y	122.1	0.02	2.89	24.38	11	515	150	96	0.08	0.0	1.983	0.050	0	0	0	52
PL.63512	PL.62976	ABC	#1/0 ACSR	7.32Y	122.1	0.04	2.92	24.38	11	514	150	96	0.13	0.0	2.066	0.083	0	0	0	52
PL.63513	PL.63512	ABC	#1/0 ACSR	7.32Y	122.1	0.02	2.94	24.11	10	509	148	96	0.07	0.0	2.113	0.048	0	0	0	51
PL.62980	PL.63513	ABC	#1/0 ACSR	7.32Y	122.0	0.04	2.98	22.94	10	484	141	96	0.13	0.0	2.207	0.094	15	4	1	49
PL.60894	PL.62980	B	#1/0 ACSR	7.32Y	122.0	0.00	2.98	0.34	0	2	1	89	0.00	0.0	2.210	0.003	0	0	0	1
PD.9067	PL.60894	B	15T	7.32Y	122.0	0.00	2.98	0.34	0	2	1	89	0.00	0.0	2.210	0.003	0	0	0	1
PL.60895	PD.9067	B	#1/0 ACSR	7.32Y	122.0	0.00	2.98	0.34	0	2	1	89	0.00	0.0	2.246	0.036	2	1	1	1
PL.61841	PL.62980	ABC	#1/0 ACSR	7.32Y	122.0	0.02	3.00	20.89	9	440	129	96	0.05	0.0	2.251	0.044	13	4	1	45
PL.61844	PL.61841	ABC	#1/0 ACSR	7.32Y	122.0	0.02	3.02	19.19	8	404	118	96	0.06	0.0	2.309	0.057	0	0	0	41
PL.62349	PL.61844	A	6 A (CWC)	7.32Y	122.0	0.00	3.02	19.32	14	136	40	96	0.00	0.0	2.310	0.001	0	0	0	14
PD.9326	PL.62349	A	40QA	7.32Y	122.0	0.00	3.02	19.32	48	136	40	96	0.00	0.0	2.310	0.001	0	0	0	14
PL.62350	PD.9326	A	6 A (CWC)	7.32Y	121.9	0.06	3.08	19.32	14	136	40	96	0.06	0.0	2.381	0.071	1	0	1	14
PL.62325	PL.62350	A	#2 ACSR	7.31Y	121.9	0.00	3.08	2.00	1	14	4	96	0.00	0.0	2.447	0.066	14	4	1	1
PL.62348	PL.62350	A	6 A (CWC)	7.31Y	121.8	0.13	3.21	15.51	11	109	32	96	0.10	0.1	2.578	0.197	16	5	2	11
PL.54330	PL.62348	A	6 A (CWC)	7.30Y	121.7	0.04	3.26	13.18	9	92	27	96	0.03	0.0	2.651	0.073	0	0	0	9
PL.57621	PL.54330	A	#4 ACSR	7.30Y	121.7	0.01	3.26	8.37	6	59	17	96	0.00	0.0	2.670	0.019	16	5	1	5
PL.57622	PL.57621	A	6 A (CWC)	7.30Y	121.7	0.02	3.28	6.11	4	43	12	96	0.01	0.0	2.770	0.100	22	7	2	4
PL.54372	PL.57622	A	6 A (CWC)	7.30Y	121.7	0.00	3.29	2.93	2	21	6	96	0.00	0.0	2.799	0.030	8	2	1	2
PL.54373	PL.54372	A	6 A (CWC)	7.30Y	121.7	0.00	3.29	1.72	1	12	4	95	0.00	0.0	2.831	0.032	12	4	1	1
PL.54371	PL.54330	A	#1/0 ACSR	7.30Y	121.7	0.00	3.26	3.36	1	24	7	96	0.00	0.0	2.703	0.052	24	7	2	2
PL.62351	PL.54330	A	6 A (CWC)	7.30Y	121.7	0.00	3.26	1.45	1	10	3	96	0.00	0.0	2.746	0.096	10	3	2	2
PL.54329	PL.62348	A	6 A (CWC)	7.31Y	121.8	0.00	3.21	0.00	0	0	0	100	0.00	0.0	2.606	0.029	0	0	0	0
PD.9325-A	PL.54329	A	Open	7.31Y	121.8	0.00	3.21	0.00	0	0	0	100	0.00	0.0	2.606	0.029	0	0	0	0
PL.62347	PL.62350	A	#4 ACSR	7.31Y	121.9	0.00	3.08	1.71	1	12	4	95	0.00	0.0	2.423	0.042	12	4	1	1
PL.61842	PL.61844	C	6 A (CWC)	7.32Y	122.0	0.00	3.02	5.99	4	42	12	96	0.00	0.0	2.310	0.001	0	0	0	6
PD.9324	PL.61842	C	40QA	7.32Y	122.0	0.00	3.02	5.99	15	42	12	96	0.00	0.0	2.310	0.001	0	0	0	6
PL.62978	PD.9324	C	6 A (CWC)	7.32Y	122.0	0.03	3.05	5.99	4	42	12	96	0.01	0.0	2.408	0.099	0	0	1	6

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

Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.63492	PL.62978	C	6 A (CWC)	7.32Y	121.9	0.01	3.06	5.97	4	42	12	96	0.00	0.0	2.450	0.042	0	0	0	5
PL.60856	PL.63492	C	6 A (CWC)	7.32Y	121.9	0.02	3.08	5.97	4	42	12	96	0.01	0.0	2.530	0.080	0	0	0	5
PL.54084	PL.60856	C	6 A (CWC)	7.31Y	121.9	0.01	3.09	4.30	3	30	9	96	0.00	0.0	2.613	0.083	30	9	3	3
PL.54311	PL.60856	C	6 A (CWC)	7.32Y	121.9	0.00	3.08	1.67	1	12	3	97	0.00	0.0	2.635	0.105	12	3	2	2
PL.61843	PL.61844	B	6 A (CWC)	7.31Y	121.8	0.17	3.19	32.26	23	227	66	96	0.29	0.1	2.422	0.113	0	0	0	21
PL.62295	PL.61843	B	6 A (CWC)	7.30Y	121.7	0.13	3.32	26.48	19	186	54	96	0.18	0.1	2.529	0.108	0	0	0	19
PL.52184	PL.62295	B	6 A (CWC)	7.30Y	121.6	0.08	3.40	18.50	13	130	38	96	0.08	0.1	2.629	0.100	15	4	2	13
PL.42557	PL.52184	B	6 A (CWC)	7.29Y	121.5	0.08	3.47	16.39	12	115	34	96	0.07	0.1	2.731	0.103	0	0	0	11
PL.54304	PL.42557	B	6 A (CWC)	7.29Y	121.5	0.00	3.48	16.39	12	115	33	96	0.00	0.0	2.735	0.004	9	3	1	11
PL.54305	PL.54304	B	6 A (CWC)	7.29Y	121.5	0.02	3.49	7.66	5	54	16	96	0.01	0.0	2.790	0.055	8	2	2	6
PL.54306	PL.54305	B	6 A (CWC)	7.29Y	121.5	0.01	3.50	6.53	5	46	13	96	0.00	0.0	2.832	0.042	16	5	2	4
PL.57727	PL.54306	B	6 A (CWC)	7.29Y	121.5	0.00	3.51	3.10	2	22	6	96	0.00	0.0	2.884	0.051	22	6	1	1
PL.63734	PL.54306	B	#1/0 ACSR	7.29Y	121.5	0.00	3.50	1.15	0	8	2	97	0.00	0.0	2.849	0.017	8	2	1	1
PL.54307	PL.54304	B	6 A (CWC)	7.29Y	121.5	0.04	3.51	7.50	5	53	15	96	0.01	0.0	2.860	0.125	17	5	1	4
PL.54308	PL.54307	B	6 A (CWC)	7.29Y	121.5	0.01	3.52	5.04	4	35	10	96	0.00	0.0	2.890	0.031	18	5	1	3
PL.52185	PL.54308	B	6 A (CWC)	7.29Y	121.5	0.00	3.52	1.13	1	8	2	97	0.00	0.0	2.949	0.059	8	2	1	1
PL.54317	PL.54308	B	6 A (CWC)	7.29Y	121.5	0.00	3.52	1.32	1	9	3	95	0.00	0.0	2.957	0.067	9	3	1	1
PL.54318	PL.54317	B	6 A (CWC)	7.29Y	121.5	0.00	3.52	0.00	0	0	0	100	0.00	0.0	2.986	0.028	0	0	0	0
PL.54309	PL.54307	B	#1/0 ACSR	7.29Y	121.5	0.00	3.51	0.00	0	0	0	100	0.00	0.0	2.959	0.099	0	0	0	0
PL.41704	PL.52184	B	#4 ACSR	7.30Y	121.6	0.00	3.40	0.00	0	0	0	100	0.00	0.0	2.698	0.069	0	0	0	0
PL.57478	PL.62295	B	6 A (CWC)	7.30Y	121.7	0.02	3.33	7.98	6	56	16	96	0.01	0.0	2.589	0.060	22	6	2	6
PL.57477	PL.57478	B	6 A (CWC)	7.30Y	121.6	0.05	3.38	4.89	3	34	10	96	0.01	0.0	2.805	0.215	0	0	0	4
PL.52186	PL.57477	B	6 A (CWC)	7.30Y	121.6	0.00	3.38	0.91	1	6	2	95	0.00	0.0	2.858	0.053	6	2	1	1
PL.42556	PL.57477	B	6 A (CWC)	7.30Y	121.6	0.01	3.39	3.97	3	28	8	96	0.00	0.0	2.870	0.065	3	1	1	3
PL.55890	PL.42556	B	6 A (CWC)	7.30Y	121.6	0.01	3.40	3.56	3	25	7	96	0.00	0.0	2.958	0.088	16	5	1	2
PL.55891	PL.55890	B	#1/0 ACSR	7.30Y	121.6	0.00	3.40	1.28	1	9	3	95	0.00	0.0	3.027	0.070	9	3	1	1
PL.62296	PL.61843	B	6 A (CWC)	7.31Y	121.8	0.01	3.20	5.78	4	41	12	96	0.00	0.0	2.482	0.060	24	7	1	2
PL.54363	PL.62296	B	6 A (CWC)	7.31Y	121.8	0.00	3.20	2.39	2	17	5	96	0.00	0.0	2.551	0.069	17	5	1	1
PL.63516	PL.61841	B	1/0 AL URD	7.32Y	122.0	0.00	3.00	3.23	2	23	7	96	0.00	0.0	2.271	0.020	23	7	3	3
PL.54522	PL.62980	B	1/0 AL URD	7.32Y	122.0	0.01	2.99	3.74	2	26	7	97	0.00	0.0	2.275	0.068	15	4	1	2
PL.63525	PL.54522	B	1/0 AL URD	7.32Y	122.0	0.00	2.99	1.66	1	12	3	97	0.00	0.0	2.365	0.090	12	3	1	1

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

Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.62979	PL.63513	A	#4 ACSR	7.32Y	122.0	0.01	2.95	3.51	3	25	7	96	0.00	0.0	2.168	0.055	0	0	0	2
PD.9320	PL.62979	A	10QA	7.32Y	122.0	0.00	2.95	3.51	0	25	7	96	0.00	0.0	2.168	0.055	0	0	0	2
PL.61831	PD.9320	A	#4 ACSR	7.32Y	122.0	0.00	2.96	3.51	3	25	7	96	0.00	0.0	2.221	0.053	25	7	2	2
PL.63514	PL.63512	A	#1/0 ACSR	7.32Y	122.1	0.00	2.92	0.80	0	6	2	95	0.00	0.0	2.069	0.004	0	0	0	1
PD.9477	PL.63514	A	10T	7.32Y	122.1	0.00	2.92	0.80	0	6	2	95	0.00	0.0	2.069	0.004	0	0	0	1
PL.63515	PD.9477	A	#1/0 ACSR	7.32Y	122.1	0.00	2.92	0.80	0	6	2	95	0.00	0.0	2.109	0.039	6	2	1	1
PL.62977	PL.62976	C	#2 ACSR	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	1.984	0.001	0	0	0	0
PD.7997	PL.62977	C	10QA	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	1.984	0.001	0	0	0	0
PL.52020	PD.7997	C	#2 ACSR	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	2.023	0.039	0	0	0	0
PL.64749	PL.64748	C	#1/0 ACSR	7.33Y	122.1	0.00	2.86	1.35	1	10	3	96	0.00	0.0	1.936	0.004	0	0	0	1
PD.9556	PL.64749	C	25T	7.33Y	122.1	0.00	2.86	1.35	0	10	3	96	0.00	0.0	1.936	0.004	0	0	0	1
PL.64750	PD.9556	C	#1/0 ACSR	7.33Y	122.1	0.00	2.86	1.35	1	10	3	96	0.00	0.0	1.992	0.056	0	0	0	1
PL.64751	PL.64750	C	#1/0 ACSR	7.33Y	122.1	0.00	2.87	1.35	1	10	3	96	0.00	0.0	2.046	0.054	10	3	1	1
PL.51944	PL.51947	C	6 A (CWC)	7.34Y	122.4	0.00	2.63	2.53	2	18	5	96	0.00	0.0	1.491	0.002	0	0	0	1
PD.7960	PL.51944	C	20QA	7.34Y	122.4	0.00	2.63	2.53	13	18	5	96	0.00	0.0	1.491	0.002	0	0	0	1
PL.51945	PD.7960	C	6 A (CWC)	7.34Y	122.4	0.00	2.63	2.53	2	18	5	96	0.00	0.0	1.541	0.050	18	5	1	1
PL.41442	PL.42810	C	#2 ACSR	7.37Y	122.8	0.00	2.17	1.34	1	9	3	95	0.00	0.0	1.040	0.029	9	3	1	1
PL.43196	PL.54082	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	15.39	11	110	32	96	0.00	0.0	0.452	0.006	0	0	0	15
PD.6650	PL.43196	C	75QA	7.44Y	124.0	0.00	0.99	15.39	21	110	32	96	0.00	0.0	0.452	0.006	0	0	0	15
PL.54078	PD.6650	C	6 A (CWC)	7.44Y	124.0	0.02	1.01	15.39	11	110	32	96	0.02	0.0	0.492	0.039	29	9	5	15
PL.54080	PL.54078	C	6 A (CWC)	7.44Y	124.0	0.00	1.02	1.66	1	12	3	97	0.00	0.0	0.535	0.043	0	0	0	1
PL.41709	PL.54080	C	#4 ACSR	7.44Y	124.0	0.00	1.02	1.66	1	12	3	97	0.00	0.0	0.619	0.084	12	3	1	1
PL.42802	PL.54080	C	6 A (CWC)	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	0.643	0.108	0	0	0	0
PL.54079	PL.54078	C	#4 ACSR	7.44Y	124.0	0.02	1.03	9.60	7	69	20	96	0.01	0.0	0.547	0.055	39	11	5	9
PL.43197	PL.54079	C	#4 ACSR	7.44Y	124.0	0.01	1.04	4.19	3	30	9	96	0.00	0.0	0.584	0.038	0	0	0	4
PL.43198	PL.43197	C	#4 ACSR	7.44Y	124.0	0.00	1.04	4.19	3	30	9	96	0.00	0.0	0.609	0.025	12	3	2	4
PL.43199	PL.43198	C	#4 ACSR	7.44Y	124.0	0.00	1.04	2.57	2	18	5	96	0.00	0.0	0.641	0.032	18	5	2	2
PL.54147	PL.54148	C	6 A (CWC)	7.48Y	124.7	0.00	0.27	13.63	10	98	29	96	0.00	0.0	0.125	0.006	0	0	0	10
PD.6618	PL.54147	C	75QA	7.48Y	124.7	0.00	0.27	13.63	18	98	29	96	0.00	0.0	0.125	0.006	0	0	0	10
PL.63000	PD.6618	C	6 A (CWC)	7.48Y	124.7	0.04	0.31	13.63	10	98	29	96	0.03	0.0	0.191	0.066	20	6	2	10
PL.62998	PL.63000	C	6 A (CWC)	7.48Y	124.7	0.01	0.32	5.88	4	42	12	96	0.00	0.0	0.249	0.058	21	6	3	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: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.54146	PL.62998	C	#4 ACSR	7.48Y	124.7	0.00	0.33	2.97	2	21	6	96	0.00	0.0	0.311	0.062	21	6	2	2
PL.62999	PL.63000	C	6 A (CWC)	7.48Y	124.7	0.01	0.32	4.96	4	36	10	96	0.00	0.0	0.225	0.034	16	5	1	3
PL.54145	PL.62999	C	6 A (CWC)	7.48Y	124.7	0.00	0.32	2.70	2	19	6	95	0.00	0.0	0.296	0.071	19	6	2	2
PL.62452	Pine Grove 1	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	220.92	42	4736	1511	95	0.02	0.0	0.002	0.002	0	0	0	590
PL.63661	PL.62452	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	220.92	42	4736	1510	95	0.01	0.0	0.004	0.002	0	0	0	590
----- Feeder No. 1 (Yorkshire F1) Beginning with Device PD.9523 -----																				
PD.9523	PL.63661	ABC	400VWE	7.50Y	125.0	0.00	0.00	220.92	0	4736	1510	95	0.00	0.0	0.004	0.002	0	0	0	590
PL.63660	PD.9523	ABC	397 SPACER	7.50Y	124.9	0.06	0.06	220.92	42	4736	1510	95	0.54	0.0	0.088	0.083	0	0	0	590
PL.43372	PL.63660	ABC	#3/0 ACSR	7.49Y	124.8	0.16	0.22	220.92	74	4735	1504	95	4.50	0.1	0.142	0.055	0	0	1	590
PL.43373	PL.43372	ABC	#3/0 ACSR	7.48Y	124.6	0.19	0.41	219.90	73	4708	1491	95	5.43	0.1	0.209	0.067	14	4	1	587
PL.43378	PL.43373	ABC	#3/0 ACSR	7.46Y	124.4	0.21	0.62	216.51	72	4630	1462	95	5.84	0.1	0.284	0.074	0	0	0	580
PL.43327	PL.43378	ABC	#3/0 ACSR	7.45Y	124.2	0.16	0.78	216.51	72	4624	1453	95	4.58	0.1	0.342	0.058	0	0	0	580
PL.43329	PL.43327	C	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.00	0	0	0	100	0.00	0.0	0.347	0.006	0	0	0	0
PD.6673	PL.43329	C	60QA	7.45Y	124.2	0.00	0.78	0.00	0	0	0	100	0.00	0.0	0.347	0.006	0	0	0	0
PL.43330	PD.6673	C	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.00	0	0	0	100	0.00	0.0	0.420	0.072	0	0	0	0
PL.43328	PL.43327	ABC	#3/0 ACSR	7.44Y	124.0	0.26	1.04	216.51	72	4620	1447	95	7.19	0.2	0.433	0.091	0	0	0	580
PL.43331	PL.43328	A	6 A (CWC)	7.44Y	124.0	0.00	1.04	17.95	13	128	37	96	0.00	0.0	0.439	0.006	0	0	0	11
PD.6133	PL.43331	A	60QA	7.44Y	124.0	0.00	1.04	17.95	30	128	37	96	0.00	0.0	0.439	0.006	0	0	0	11
PL.43332	PD.6133	A	6 A (CWC)	7.43Y	123.8	0.11	1.15	17.95	13	128	37	96	0.10	0.1	0.576	0.137	11	3	1	11
PL.43335	PL.43332	A	#4 ACSR	7.43Y	123.8	0.02	1.17	7.91	6	56	16	96	0.01	0.0	0.640	0.064	13	4	1	5
PL.54150	PL.43335	A	#4 ACSR	7.43Y	123.8	0.01	1.18	6.03	5	43	13	96	0.00	0.0	0.671	0.032	13	4	1	4
PL.54203	PL.54150	A	#4 ACSR	7.43Y	123.8	0.00	1.18	4.20	3	30	9	96	0.00	0.0	0.698	0.027	30	9	3	3
PL.54204	PL.54203	A	#4 ACSR	7.43Y	123.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	0.738	0.040	0	0	0	0
PL.43336	PL.43332	A	6 A (CWC)	7.43Y	123.8	0.03	1.18	8.43	6	60	18	96	0.01	0.0	0.657	0.082	0	0	0	5
PL.43337	PL.43336	A	6 A (CWC)	7.43Y	123.8	0.03	1.21	5.83	4	42	12	96	0.01	0.0	0.765	0.108	8	2	1	3
PL.43338	PL.43337	A	6 A (CWC)	7.43Y	123.8	0.01	1.22	4.65	3	33	10	96	0.00	0.0	0.821	0.056	19	6	1	2
PL.43339	PL.43338	A	6 A (CWC)	7.43Y	123.8	0.00	1.22	1.96	1	14	4	96	0.00	0.0	0.914	0.093	14	4	1	1
PL.43340	PL.43339	A	6 A (CWC)	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	0.987	0.073	0	0	0	0
PL.54149	PL.43336	A	6 A (CWC)	7.43Y	123.8	0.00	1.19	2.60	2	19	5	97	0.00	0.0	0.687	0.029	19	5	2	2

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.41048	PL.43328	ABC	#3/0 ACSR	7.43Y	123.8	0.20	1.24	210.53	70	4484	1399	95	5.44	0.1	0.506	0.073	16	5	8	569
PL.41049	PL.41048	ABC	#3/0 ACSR	7.42Y	123.6	0.13	1.37	209.80	70	4463	1386	96	3.44	0.1	0.553	0.047	0	0	1	561
PL.41632	PL.41049	ABC	#3/0 ACSR	7.41Y	123.5	0.09	1.45	209.80	70	4460	1381	96	2.36	0.1	0.585	0.032	21	6	2	560
PL.41352	PL.41632	ABC	#3/0 ACSR	7.38Y	123.1	0.49	1.94	208.83	70	4437	1372	96	13.21	0.3	0.765	0.180	0	0	0	558
PL.60911	PL.41352	ABC	#1/0 ACSR	7.38Y	123.1	-0.00	1.94	-0.05	0	0	-1	0	0.00	0.0	0.899	0.134	0	0	0	0
PL.60912	PL.60911	ABC	#1/0 ACSR	7.38Y	123.1	-0.00	1.94	-0.05	0	0	-1	0	0.00	0.0	0.937	0.038	0	0	0	0
PL.60913	PL.60912	ABC	#1/0 ACSR	7.38Y	123.1	-0.00	1.94	-0.05	0	0	-1	0	0.00	0.0	0.997	0.060	0	0	0	0
PL.60910	PL.60913	ABC	1/0 AL URD	7.38Y	123.1	-0.00	1.94	-0.05	0	0	-1	0	0.00	0.0	1.082	0.085	0	0	0	0
PL.41633	PL.41352	ABC	#3/0 ACSR	7.38Y	123.0	0.11	2.05	208.84	70	4424	1354	96	2.94	0.1	0.805	0.040	3	1	1	558
PL.54542	PL.41633	ABC	#3/0 ACSR	7.37Y	122.8	0.19	2.23	165.29	55	3494	1082	96	4.01	0.1	0.894	0.089	83	24	11	434
PL.59257	PL.54542	ABC	#3/0 ACSR	7.36Y	122.7	0.06	2.30	139.43	46	2942	916	95	1.15	0.0	0.930	0.036	58	17	7	376
PL.59256	PL.59257	ABC	#3/0 ACSR	7.36Y	122.6	0.08	2.38	136.69	46	2882	897	95	1.45	0.1	0.976	0.046	7	2	1	369
PL.54717	PL.59256	ABC	#3/0 ACSR	7.35Y	122.5	0.10	2.48	136.37	45	2874	893	95	1.71	0.1	1.031	0.055	10	3	3	368
PL.54718	PL.54717	ABC	#3/0 ACSR	7.34Y	122.4	0.11	2.59	135.91	45	2863	888	96	1.95	0.1	1.094	0.063	11	3	1	365
PL.54269	PL.54718	ABC	#3/0 ACSR	7.34Y	122.4	0.06	2.65	135.41	45	2850	882	96	1.05	0.0	1.129	0.034	13	4	5	364
PL.54270	PL.54269	B	6 A (CWC)	7.34Y	122.4	0.00	2.65	2.54	2	18	5	96	0.00	0.0	1.134	0.006	0	0	0	3
PD.6567	PL.54270	B	60QA	7.34Y	122.4	0.00	2.65	2.54	4	18	5	96	0.00	0.0	1.134	0.006	0	0	0	3
PL.54268	PD.6567	B	6 A (CWC)	7.34Y	122.4	0.00	2.65	2.54	2	18	5	96	0.00	0.0	1.156	0.021	18	5	3	3
PL.59266	PL.54269	ABC	#3/0 ACSR	7.34Y	122.3	0.05	2.70	133.95	45	2818	872	96	0.87	0.0	1.158	0.029	16	5	1	356
PL.59601	PL.59266	ABC	#3/0 ACSR	7.34Y	122.3	0.05	2.75	131.89	44	2774	858	96	0.86	0.0	1.187	0.029	0	0	0	350
PL.60814	PL.59601	ABC	336 MCM AC	7.33Y	122.2	0.06	2.81	129.37	25	2720	841	96	0.82	0.0	1.246	0.059	13	4	3	345
PL.60816	PL.60814	ABC	336 MCM AC	7.32Y	122.0	0.16	2.96	128.75	25	2706	835	96	2.21	0.1	1.404	0.158	0	0	0	342
PL.60815	PL.60816	ABC	336 MCM AC	7.32Y	122.0	0.08	3.04	127.97	25	2687	825	96	1.14	0.0	1.487	0.083	13	4	1	341
PL.59604	PL.60815	C	#4 ACSR	7.32Y	122.0	0.00	3.04	1.53	1	11	3	96	0.00	0.0	1.516	0.030	11	3	2	2
PL.59605	PL.60815	ABC	336 MCM AC	7.31Y	121.9	0.05	3.10	126.83	24	2662	816	96	0.76	0.0	1.543	0.056	13	4	1	338
PL.59606	PL.59605	ABC	336 MCM AC	7.31Y	121.9	0.04	3.13	126.22	24	2649	810	96	0.50	0.0	1.580	0.037	0	0	0	337
PD.8800-A	PL.59606	ABC	Closed	7.31Y	121.9	0.00	3.13	126.22	0	2648	809	96	0.00	0.0	1.580	0.037	0	0	0	337
PD.8800-B	PD.8800-A	ABC	Closed	7.31Y	121.9	0.00	3.13	126.22	0	2648	809	96	0.00	0.0	1.580	0.037	0	0	0	337
PL.61110	PD.8800-B	ABC	336 MCM AC	7.31Y	121.8	0.04	3.17	126.22	24	2648	809	96	0.51	0.0	1.618	0.038	0	0	0	337
PD.9070	PL.61110	ABC	25T	7.31Y	121.8	0.00	3.17	126.22	0	2647	808	96	0.00	0.0	1.618	0.038	0	0	0	337
PL.61109	PD.9070	ABC	336 MCM AC	7.31Y	121.8	0.01	3.18	126.22	24	2647	808	96	0.08	0.0	1.624	0.006	14	4	1	337

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: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.43127	PL.61109	ABC	#3/0 ACSR	7.31Y	121.8	0.04	3.22	123.55	41	2591	791	96	0.69	0.0	1.651	0.027	0	0	1	329
PL.43128	PL.43127	ABC	#3/0 ACSR	7.31Y	121.8	0.02	3.24	123.55	41	2590	790	96	0.35	0.0	1.665	0.014	10	3	1	328
PL.53681	PL.43128	ABC	#3/0 ACSR	7.30Y	121.7	0.07	3.31	123.08	41	2580	787	96	1.09	0.0	1.708	0.043	33	10	4	327
PL.53682	PL.53681	ABC	#3/0 ACSR	7.30Y	121.6	0.07	3.38	115.54	39	2421	739	96	1.07	0.0	1.756	0.048	0	0	0	310
PL.43129	PL.53682	C	#4 ACSR	7.30Y	121.6	0.00	3.38	5.11	4	36	10	96	0.00	0.0	1.761	0.006	0	0	0	3
PD.6542	PL.43129	C	50QA	7.30Y	121.6	0.00	3.38	5.11	10	36	10	96	0.00	0.0	1.761	0.006	0	0	0	3
PL.43130	PD.6542	C	#4 ACSR	7.30Y	121.6	0.00	3.38	5.11	4	36	10	96	0.00	0.0	1.774	0.012	11	3	1	3
PL.43131	PL.43130	C	#4 ACSR	7.30Y	121.6	0.01	3.39	3.60	3	25	7	96	0.00	0.0	1.821	0.047	12	4	1	2
PL.43132	PL.43131	C	#4 ACSR	7.30Y	121.6	0.00	3.39	1.88	1	13	4	96	0.00	0.0	1.899	0.078	13	4	1	1
PL.41553	PL.53682	C	#2 ACSR	7.30Y	121.6	0.00	3.38	2.37	1	17	5	96	0.00	0.0	1.779	0.023	17	5	1	1
PL.41967	PL.53682	ABC	#3/0 ACSR	7.29Y	121.6	0.06	3.44	113.05	38	2367	722	96	0.94	0.0	1.800	0.044	9	3	1	306
PL.43380	PL.41967	ABC	#3/0 ACSR	7.29Y	121.5	0.10	3.55	111.17	37	2327	709	96	1.47	0.1	1.871	0.071	19	6	2	302
PL.43381	PL.43380	A	#4 ACSR	7.29Y	121.5	0.00	3.55	3.77	3	26	8	96	0.00	0.0	1.876	0.006	0	0	0	3
PD.6695	PL.43381	A	60QA	7.29Y	121.5	0.00	3.55	3.77	6	26	8	96	0.00	0.0	1.876	0.006	0	0	0	3
PL.43382	PD.6695	A	#4 ACSR	7.29Y	121.4	0.01	3.56	3.77	3	26	8	96	0.00	0.0	1.990	0.114	26	8	3	3
PL.43383	PL.43380	ABC	#3/0 ACSR	7.28Y	121.4	0.04	3.59	109.00	36	2280	694	96	0.57	0.0	1.899	0.029	13	4	2	297
PL.43384	PL.43383	ABC	#3/0 ACSR	7.28Y	121.4	0.04	3.63	108.36	36	2266	689	96	0.57	0.0	1.929	0.029	7	2	1	295
PL.63252	PL.43384	ABC	#3/0 ACSR	7.28Y	121.3	0.11	3.73	106.82	36	2233	679	96	1.48	0.1	2.006	0.077	0	0	0	291
PL.63253	PL.63252	ABC	#3/0 ACSR	7.27Y	121.2	0.07	3.80	106.32	35	2221	674	96	0.96	0.0	2.056	0.050	0	0	0	290
PL.43273	PL.63253	A	#4 ACSR	7.27Y	121.2	0.00	3.80	2.87	2	20	6	96	0.00	0.0	2.062	0.006	0	0	0	1
PD.6544	PL.43273	A	60QA	7.27Y	121.2	0.00	3.80	2.87	5	20	6	96	0.00	0.0	2.062	0.006	0	0	0	1
PL.43274	PD.6544	A	#4 ACSR	7.27Y	121.2	0.00	3.80	2.87	2	20	6	96	0.00	0.0	2.079	0.017	20	6	1	1
PL.43275	PL.63253	ABC	#3/0 ACSR	7.27Y	121.1	0.09	3.90	105.37	35	2200	666	96	1.30	0.1	2.126	0.070	0	0	0	289
PL.43276	PL.43275	ABC	#3/0 ACSR	7.26Y	120.9	0.17	4.07	104.08	35	2172	657	96	2.32	0.1	2.254	0.128	0	0	0	287
PL.43014	PL.43276	A	#4 ACSR	7.26Y	120.9	0.00	4.07	5.95	5	42	11	97	0.00	0.0	2.259	0.006	0	0	0	8
PD.6590	PL.43014	A	50QA	7.26Y	120.9	0.00	4.07	5.95	12	42	11	97	0.00	0.0	2.259	0.006	0	0	0	8
PL.54216	PD.6590	A	#4 ACSR	7.25Y	120.9	0.02	4.09	5.95	5	42	11	97	0.01	0.0	2.333	0.074	0	0	0	8
PL.54219	PL.54216	A	#4 ACSR	7.25Y	120.9	0.02	4.11	5.95	5	42	11	97	0.01	0.0	2.416	0.083	0	0	0	8
PD.8136	PL.54219	A	40QA	7.25Y	120.9	0.00	4.11	5.95	15	42	11	97	0.00	0.0	2.416	0.083	0	0	0	8
PL.54220	PD.8136	A	#4 ACSR	7.25Y	120.9	0.00	4.11	5.95	5	42	11	97	0.00	0.0	2.420	0.004	0	0	0	8
PL.54217	PL.54220	A	6 A (CWC)	7.25Y	120.9	0.01	4.12	4.24	3	30	8	97	0.00	0.0	2.506	0.087	13	4	3	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: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.43015	PL.54217	A	6 A (CWC)	7.25Y	120.9	0.00	4.13	2.44	2	17	4	97	0.00	0.0	2.527	0.020	0	0	0	2
PL.42474	PL.43015	A	6 A (CWC)	7.25Y	120.9	0.00	4.13	2.44	2	17	4	97	0.00	0.0	2.568	0.041	0	0	0	2
PL.54225	PL.42474	A	6 A (CWC)	7.25Y	120.9	-0.00	4.13	0.14	0	0	-1	0	0.00	0.0	2.596	0.028	0	0	1	1
PL.54226	PL.54225	A	1/0 AL URD	7.25Y	120.9	-0.00	4.13	-0.15	0	0	-1	0	0.00	0.0	2.806	0.210	0	0	0	0
PL.54227	PL.54226	A	1/0 AL URD	7.25Y	120.9	-0.00	4.13	-0.04	0	0	0	100	0.00	0.0	2.880	0.074	0	0	0	0
PL.54224	PL.42474	A	#1/0 ACSR	7.25Y	120.9	0.00	4.13	2.42	1	17	5	96	0.00	0.0	2.584	0.016	17	5	1	1
PL.54218	PL.54220	A	6 A (CWC)	7.25Y	120.9	0.01	4.12	1.70	1	12	3	97	0.00	0.0	2.566	0.146	0	0	1	3
PL.54144	PL.54218	A	6 A (CWC)	7.25Y	120.9	0.00	4.12	1.64	1	11	3	96	0.00	0.0	2.608	0.042	11	3	2	2
PL.41023	PL.43276	ABC	#3/0 ACSR	7.25Y	120.9	0.08	4.15	102.10	34	2128	642	96	1.10	0.1	2.316	0.063	0	0	0	279
PL.41379	PL.41023	ABC	#4 ACSR	7.25Y	120.8	0.00	4.15	0.60	0	12	6	89	0.00	0.0	2.523	0.207	12	6	1	1
PL.41024	PL.41023	ABC	#3/0 ACSR	7.25Y	120.8	0.09	4.24	101.51	34	2115	635	96	1.16	0.1	2.383	0.067	0	0	0	278
PL.58992	PL.41024	ABC	#3/0 ACSR	7.24Y	120.6	0.16	4.39	101.51	34	2114	633	96	2.11	0.1	2.505	0.122	0	0	0	278
PL.58993	PL.58992	ABC	#3/0 ACSR	7.23Y	120.5	0.14	4.53	101.51	34	2112	630	96	1.87	0.1	2.613	0.108	0	0	0	278
PL.41493	PL.58993	ABC	#1/0 ACSR	7.22Y	120.4	0.09	4.62	101.51	44	2110	628	96	1.30	0.1	2.660	0.047	0	0	0	278
PL.41005	PL.41493	ABC	#1/0 ACSR	7.22Y	120.4	0.01	4.63	101.51	44	2108	626	96	0.16	0.0	2.666	0.006	0	0	0	278
C PD.6624	PL.41005	ABC	70L	7.22Y	120.4	0.00	4.63	101.51	145	2108	626	96	0.00	0.0	2.666	0.006	0	0	0	278 C
PL.41649	PD.6624	ABC	#1/0 ACSR	7.22Y	120.3	0.06	4.70	101.51	44	2108	626	96	0.92	0.0	2.700	0.034	48	14	5	278
PL.43166	PL.41649	ABC	#1/0 ACSR	7.21Y	120.2	0.07	4.76	91.36	40	1896	564	96	0.89	0.0	2.740	0.040	20	6	4	249
PL.43167	PL.43166	ABC	#1/0 ACSR	7.21Y	120.2	0.04	4.80	90.38	39	1875	557	96	0.51	0.0	2.764	0.024	16	5	1	245
PL.53715	PL.43167	ABC	#1/0 ACSR	7.21Y	120.1	0.09	4.89	89.62	39	1859	552	96	1.22	0.1	2.822	0.058	37	11	3	244
PL.53716	PL.53715	ABC	#1/0 ACSR	7.20Y	120.0	0.07	4.97	87.84	38	1821	540	96	0.93	0.1	2.867	0.046	15	4	2	241
PL.43170	PL.53716	C	6 A (CWC)	7.20Y	120.0	0.00	4.97	2.89	2	20	6	96	0.00	0.0	2.873	0.006	0	0	0	1
PD.6595	PL.43170	C	50QA	7.20Y	120.0	0.00	4.97	2.89	6	20	6	96	0.00	0.0	2.873	0.006	0	0	0	1
PL.54173	PD.6595	C	6 A (CWC)	7.20Y	120.0	0.00	4.97	2.89	2	20	6	96	0.00	0.0	2.897	0.024	20	6	1	1
PL.43168	PL.53716	ABC	#1/0 ACSR	7.20Y	120.0	0.06	5.03	86.17	37	1785	529	96	0.75	0.0	2.906	0.038	35	10	4	238
PL.43171	PL.43168	ABC	#1/0 ACSR	7.20Y	120.0	0.00	5.03	0.22	0	4	2	89	0.00	0.0	2.911	0.006	0	0	0	1
PD.6502	PL.43171	ABC	50QA	7.20Y	120.0	0.00	5.03	0.22	0	4	2	89	0.00	0.0	2.911	0.006	0	0	0	1
PL.43172	PD.6502	ABC	#1/0 ACSR	7.20Y	120.0	0.00	5.03	0.22	0	4	2	89	0.00	0.0	2.915	0.003	4	2	1	1
PL.43169	PL.43168	ABC	#1/0 ACSR	7.20Y	119.9	0.03	5.06	84.25	37	1745	516	96	0.40	0.0	2.927	0.021	36	11	5	233
PL.43539	PL.43169	ABC	#1/0 ACSR	7.19Y	119.8	0.15	5.21	74.68	32	1546	458	96	1.66	0.1	3.040	0.113	17	5	4	209
PL.54467	PL.43539	ABC	#1/0 ACSR	7.18Y	119.6	0.15	5.36	73.84	32	1527	451	96	1.63	0.1	3.154	0.114	31	9	2	205

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.54468	PL.54467	ABC	#1/0 ACSR	7.18Y	119.6	0.04	5.40	71.23	31	1471	434	96	0.39	0.0	3.183	0.029	3	1	1	200
PL.54399	PL.54468	A	#4 ACSR	7.18Y	119.6	0.00	5.40	8.19	6	56	16	96	0.00	0.0	3.189	0.006	0	0	0	9
PD.6746	PL.54399	A	50QA	7.18Y	119.6	0.00	5.40	8.19	16	56	16	96	0.00	0.0	3.189	0.006	0	0	0	9
PL.54401	PD.6746	A	#4 ACSR	7.18Y	119.6	0.01	5.41	8.19	6	56	16	96	0.00	0.0	3.207	0.019	5	1	3	9
PL.54402	PL.54401	A	#4 ACSR	7.17Y	119.6	0.01	5.42	7.46	6	51	15	96	0.00	0.0	3.236	0.029	4	1	1	6
PL.54466	PL.54402	A	#4 ACSR	7.17Y	119.6	0.01	5.43	6.94	5	48	14	96	0.00	0.0	3.281	0.045	3	1	1	5
PL.54557	PL.54466	A	#4 ACSR	7.17Y	119.6	0.01	5.44	6.54	5	45	13	96	0.00	0.0	3.320	0.039	11	3	1	4
PL.54558	PL.54557	A	#4 ACSR	7.17Y	119.6	0.00	5.44	4.88	4	34	10	96	0.00	0.0	3.332	0.012	15	4	2	3
PL.54559	PL.54558	A	#4 ACSR	7.17Y	119.6	0.00	5.45	2.69	2	18	5	96	0.00	0.0	3.366	0.034	18	5	1	1
PL.54400	PL.54468	ABC	#1/0 ACSR	7.17Y	119.6	0.04	5.44	68.35	30	1411	416	96	0.41	0.0	3.216	0.033	11	3	2	190
PL.54398	PL.54400	C	#4 ACSR	7.17Y	119.6	0.00	5.44	7.60	6	52	15	96	0.00	0.0	3.222	0.006	0	0	0	4
PD.6648	PL.54398	C	50QA	7.17Y	119.6	0.00	5.44	7.60	15	52	15	96	0.00	0.0	3.222	0.006	0	0	0	4
PL.43540	PD.6648	C	#4 ACSR	7.17Y	119.5	0.01	5.46	7.60	6	52	15	96	0.01	0.0	3.273	0.051	19	6	1	4
PL.43541	PL.43540	C	#4 ACSR	7.17Y	119.5	0.00	5.46	4.81	4	33	10	96	0.00	0.0	3.293	0.020	5	1	1	3
PL.63261	PL.43541	C	#4 ACSR	7.17Y	119.5	0.00	5.47	4.09	3	28	8	96	0.00	0.0	3.342	0.049	28	8	2	2
PL.54397	PL.54400	ABC	#1/0 ACSR	7.17Y	119.5	0.09	5.53	65.31	28	1348	397	96	0.82	0.1	3.289	0.073	22	7	4	184
PL.54498	PL.54397	ABC	#1/0 ACSR	7.16Y	119.4	0.08	5.60	29.19	13	603	176	96	0.32	0.1	3.435	0.146	15	4	3	84
PL.54500	PL.54498	ABC	#1/0 ACSR	7.16Y	119.4	0.03	5.63	28.47	12	587	172	96	0.13	0.0	3.493	0.059	2	1	1	81
PL.54501	PL.54500	ABC	#1/0 ACSR	7.16Y	119.4	0.01	5.64	27.66	12	571	167	96	0.04	0.0	3.513	0.019	0	0	0	77
PL.54497	PL.54501	ABC	#1/0 ACSR	7.16Y	119.3	0.01	5.65	19.68	9	406	119	96	0.03	0.0	3.540	0.027	6	2	4	59
PL.41932	PL.54497	ABC	#1/0 ACSR	7.16Y	119.3	0.00	5.66	5.17	2	107	31	96	0.00	0.0	3.580	0.041	8	2	1	16
PL.54531	PL.41932	ABC	#1/0 ACSR	7.16Y	119.3	0.00	5.66	4.80	2	99	29	96	0.00	0.0	3.629	0.049	24	7	4	15
PL.54535	PL.54531	ABC	#1/0 ACSR	7.16Y	119.3	0.00	5.66	3.65	2	75	22	96	0.00	0.0	3.707	0.078	42	12	4	11
PL.54536	PL.54535	A	6 A (CWC)	7.16Y	119.3	0.00	5.67	4.86	3	33	10	96	0.00	0.0	3.713	0.006	0	0	0	7
PD.6543	PL.54536	A	50QA	7.16Y	119.3	0.00	5.67	4.86	10	33	10	96	0.00	0.0	3.713	0.006	0	0	0	7
PL.54533	PD.6543	A	6 A (CWC)	7.16Y	119.3	0.00	5.67	4.86	3	33	10	96	0.00	0.0	3.735	0.021	3	1	1	7
PL.54534	PL.54533	A	6 A (CWC)	7.16Y	119.3	0.01	5.68	4.45	3	31	9	96	0.00	0.0	3.809	0.074	9	3	1	6
PL.54532	PL.54534	A	6 A (CWC)	7.16Y	119.3	0.00	5.69	3.07	2	21	6	96	0.00	0.0	3.836	0.027	13	4	3	5
PL.54161	PL.54532	A	6 A (CWC)	7.16Y	119.3	0.00	5.69	1.15	1	8	2	97	0.00	0.0	3.897	0.061	8	2	2	2
PL.43606	PL.54497	A	6 A (CWC)	7.16Y	119.3	0.01	5.66	42.58	30	293	86	96	0.03	0.0	3.545	0.006	0	0	0	39
PD.6520	PL.43606	A	25T	7.16Y	119.3	0.00	5.66	42.58	0	293	86	96	0.00	0.0	3.545	0.006	0	0	0	39

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: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.43607	PD.6520	A	6 A (CWC)	7.16Y	119.3	0.06	5.73	42.58	30	293	86	96	0.14	0.0	3.577	0.032	7	2	2	39
PL.43605	PL.43607	A	6 A (CWC)	7.15Y	119.2	0.11	5.83	41.50	30	285	83	96	0.23	0.1	3.633	0.056	1	0	1	37
PL.43608	PL.43605	A	6 A (CWC)	7.15Y	119.1	0.06	5.89	41.36	30	284	83	96	0.13	0.0	3.665	0.032	12	4	1	36
PL.54165	PL.43608	A	6 A (CWC)	7.15Y	119.1	0.00	5.89	2.02	1	14	4	96	0.00	0.0	3.697	0.032	14	4	1	1
PL.54166	PL.54165	A	6 A (CWC)	7.15Y	119.1	0.00	5.89	0.00	0	0	0	100	0.00	0.0	3.733	0.036	0	0	0	0
PL.54163	PL.43608	A	6 A (CWC)	7.14Y	119.0	0.09	5.98	37.57	27	258	75	96	0.17	0.1	3.720	0.056	33	10	2	34
PL.54164	PL.54163	A	6 A (CWC)	7.14Y	119.0	0.00	5.98	2.60	2	18	5	96	0.00	0.0	3.758	0.038	9	3	1	2
PL.54162	PL.54164	A	6 A (CWC)	7.14Y	119.0	0.00	5.99	1.26	1	9	3	95	0.00	0.0	3.797	0.038	9	3	1	1
PL.54547	PL.54163	A	6 A (CWC)	7.14Y	119.0	0.05	6.03	30.19	22	207	60	96	0.07	0.0	3.756	0.036	17	5	5	30
PL.54548	PL.54547	A	6 A (CWC)	7.14Y	119.0	0.01	6.04	5.34	4	37	11	96	0.00	0.0	3.799	0.043	7	2	1	4
PL.54196	PL.54548	A	6 A (CWC)	7.14Y	119.0	0.00	6.04	4.32	3	30	9	96	0.00	0.0	3.826	0.027	13	4	1	3
PL.54167	PL.54196	A	6 A (CWC)	7.14Y	119.0	0.00	6.04	1.19	1	8	2	97	0.00	0.0	3.877	0.051	8	2	1	1
PL.54197	PL.54196	A	#1/0 ACSR	7.14Y	119.0	0.00	6.04	1.23	1	8	2	97	0.00	0.0	3.851	0.025	8	2	1	1
PL.54551	PL.54547	A	6 A (CWC)	7.14Y	119.0	0.01	6.04	3.45	2	24	7	96	0.00	0.0	3.849	0.093	0	0	0	5
PD.8142	PL.54551	A	20QA	7.14Y	119.0	0.00	6.04	3.45	17	24	7	96	0.00	0.0	3.849	0.093	0	0	0	5
PL.54552	PD.8142	A	6 A (CWC)	7.14Y	119.0	0.00	6.04	3.45	2	24	7	96	0.00	0.0	3.853	0.004	24	7	5	5
PL.54550	PL.54547	A	6 A (CWC)	7.13Y	118.9	0.06	6.09	15.72	11	108	31	96	0.05	0.0	3.847	0.091	16	5	2	13
PL.43610	PL.54550	A	6 A (CWC)	7.13Y	118.9	0.01	6.10	5.29	4	36	11	96	0.00	0.0	3.886	0.039	13	4	2	4
PL.43611	PL.43610	A	6 A (CWC)	7.13Y	118.9	0.00	6.10	3.34	2	23	7	96	0.00	0.0	3.931	0.045	23	7	2	2
PL.43612	PL.54550	A	6 A (CWC)	7.13Y	118.9	0.02	6.11	8.05	6	55	16	96	0.01	0.0	3.905	0.058	8	2	1	7
PL.43613	PL.43612	A	6 A (CWC)	7.13Y	118.9	0.02	6.12	6.83	5	47	14	96	0.01	0.0	3.954	0.049	0	0	0	6
PL.41415	PL.43613	A	#4 ACSR	7.13Y	118.9	0.00	6.13	1.12	1	8	2	97	0.00	0.0	4.049	0.095	8	2	2	2
PL.43614	PL.43613	A	6 A (CWC)	7.13Y	118.9	0.01	6.13	5.71	4	39	11	96	0.00	0.0	4.001	0.047	31	9	3	4
PL.43615	PL.43614	A	6 A (CWC)	7.13Y	118.9	0.00	6.13	1.23	1	8	2	97	0.00	0.0	4.053	0.052	8	2	1	1
PL.54549	PL.54547	A	6 A (CWC)	7.14Y	119.0	0.01	6.04	3.27	2	22	7	95	0.00	0.0	3.799	0.043	0	0	0	3
PL.43609	PL.54549	A	6 A (CWC)	7.14Y	119.0	0.00	6.04	0.98	1	7	2	96	0.00	0.0	3.864	0.065	7	2	2	2
PL.54546	PL.54549	A	6 A (CWC)	7.14Y	119.0	0.00	6.04	2.28	2	16	5	95	0.00	0.0	3.858	0.059	16	5	1	1
PL.61129	PL.54546	A	6 A (CWC)	7.14Y	119.0	0.00	6.04	0.00	0	0	0	100	0.00	0.0	3.894	0.035	0	0	0	0
PL.54499	PL.54501	C	6 A (CWC)	7.16Y	119.3	0.01	5.65	23.96	17	165	48	96	0.01	0.0	3.518	0.006	0	0	0	18
PD.6742	PL.54499	C	50QA	7.16Y	119.3	0.00	5.65	23.96	48	165	48	96	0.00	0.0	3.518	0.006	0	0	0	18
PL.41931	PD.6742	C	6 A (CWC)	7.16Y	119.3	0.06	5.71	23.96	17	165	48	96	0.08	0.0	3.578	0.060	11	3	2	18

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

Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.72568	PL.41931	C	6 A (CWC)	7.16Y	119.3	0.01	5.73	22.39	16	154	45	96	0.02	0.0	3.591	0.013	0	0	0	16
PL.72569	PL.72568	C	6 A (CWC)	7.16Y	119.3	0.00	5.73	22.39	16	154	45	96	0.00	0.0	3.591	0.000	0	0	0	16
PL.42844	PL.72569	C	6 A (CWC)	7.15Y	119.2	0.04	5.77	17.66	13	121	35	96	0.03	0.0	3.647	0.055	41	12	5	12
PL.43604	PL.42844	C	6 A (CWC)	7.15Y	119.2	0.02	5.79	9.28	7	64	19	96	0.01	0.0	3.704	0.057	9	3	1	5
PL.54223	PL.43604	C	#4 ACSR	7.15Y	119.2	0.01	5.80	5.88	5	40	12	96	0.00	0.0	3.773	0.070	40	12	2	2
PL.54593	PL.43604	C	6 A (CWC)	7.15Y	119.2	0.00	5.79	2.14	2	15	4	97	0.00	0.0	3.753	0.050	15	4	2	2
PL.54221	PL.42844	C	#4 ACSR	7.15Y	119.2	0.00	5.77	2.48	2	17	5	96	0.00	0.0	3.694	0.047	11	3	1	2
PL.54222	PL.54221	C	#4 ACSR	7.15Y	119.2	0.00	5.77	0.88	1	6	2	95	0.00	0.0	3.710	0.015	6	2	1	1
PL.41935	PL.72569	C	#4 ACSR	7.16Y	119.3	0.01	5.74	4.73	4	32	9	96	0.00	0.0	3.652	0.060	19	6	2	4
PL.42843	PL.41935	C	#4 ACSR	7.16Y	119.3	0.00	5.74	1.95	1	13	4	96	0.00	0.0	3.679	0.027	3	1	1	2
PL.41934	PL.42843	C	#4 ACSR	7.16Y	119.3	0.00	5.74	1.53	1	11	3	96	0.00	0.0	3.688	0.009	11	3	1	1
PL.54502	PL.54500	A	#1/0 ACSR	7.16Y	119.4	0.00	5.63	2.11	1	14	4	96	0.00	0.0	3.497	0.004	0	0	0	3
PD.8139	PL.54502	A	20QA	7.16Y	119.4	0.00	5.63	2.11	11	14	4	96	0.00	0.0	3.497	0.004	0	0	0	3
PL.54503	PD.8139	A	#1/0 ACSR	7.16Y	119.4	0.00	5.64	2.11	1	14	4	96	0.00	0.0	3.523	0.025	14	4	3	3
PL.43542	PL.54397	ABC	#1/0 ACSR	7.17Y	119.5	0.02	5.55	35.03	15	722	213	96	0.11	0.0	3.323	0.034	10	3	3	96
PL.43543	PL.43542	ABC	#1/0 ACSR	7.17Y	119.4	0.02	5.57	34.55	15	712	210	96	0.12	0.0	3.360	0.037	16	5	2	93
PL.43546	PL.43543	C	6 A (CWC)	7.17Y	119.4	0.00	5.57	0.39	0	3	1	95	0.00	0.0	3.366	0.006	0	0	0	3
PD.6505	PL.43546	C	50QA	7.17Y	119.4	0.00	5.57	0.39	1	3	1	95	0.00	0.0	3.366	0.006	0	0	0	3
PL.54723	PD.6505	C	6 A (CWC)	7.17Y	119.4	0.00	5.57	0.39	0	3	1	95	0.00	0.0	3.435	0.069	3	1	3	3
PL.43544	PL.43543	A	#4 ACSR	7.17Y	119.4	0.00	5.57	0.63	0	4	1	97	0.00	0.0	3.366	0.006	0	0	0	1
PD.6686	PL.43544	A	50QA	7.17Y	119.4	0.00	5.57	0.63	1	4	1	97	0.00	0.0	3.366	0.006	0	0	0	1
PL.43545	PD.6686	A	#4 ACSR	7.17Y	119.4	0.00	5.57	0.63	0	4	1	97	0.00	0.0	3.403	0.037	4	1	1	1
PL.43547	PL.43543	ABC	#1/0 ACSR	7.16Y	119.4	0.05	5.63	33.42	15	689	203	96	0.27	0.0	3.449	0.089	0	0	0	87
PL.58439	PL.43547	C	#4 ACSR	7.16Y	119.4	0.00	5.63	6.97	5	48	14	96	0.00	0.0	3.452	0.003	0	0	0	7
PD.8591	PL.58439	C	25T	7.16Y	119.4	0.00	5.63	6.97	0	48	14	96	0.00	0.0	3.452	0.003	0	0	0	7
PL.58440	PD.8591	C	#4 ACSR	7.16Y	119.3	0.03	5.66	6.97	5	48	14	96	0.01	0.0	3.542	0.090	0	0	1	7
PL.58438	PL.58440	C	#4 ACSR	7.16Y	119.3	0.01	5.66	6.97	5	48	14	96	0.00	0.0	3.579	0.036	20	6	3	6
PL.43550	PL.58438	C	#4 ACSR	7.16Y	119.3	0.00	5.67	4.06	3	28	8	96	0.00	0.0	3.604	0.026	28	8	3	3
PL.43548	PL.43547	ABC	#1/0 ACSR	7.16Y	119.4	0.00	5.63	31.10	14	641	189	96	0.02	0.0	3.456	0.007	4	2	1	80
PL.43549	PL.43548	ABC	#1/0 ACSR	7.16Y	119.4	0.02	5.65	30.92	13	637	188	96	0.08	0.0	3.489	0.032	28	8	2	79
PL.54571	PL.43549	ABC	#1/0 ACSR	7.16Y	119.3	0.03	5.68	26.07	11	537	158	96	0.13	0.0	3.559	0.071	6	2	2	69

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.54572	PL.54571	ABC	#1/0 ACSR	7.16Y	119.3	0.02	5.70	25.77	11	531	156	96	0.06	0.0	3.598	0.039	48	14	4	67
PL.41962	PL.54572	B	#1/0 ACSR	7.16Y	119.3	0.00	5.70	5.25	2	36	11	96	0.00	0.0	3.604	0.006	0	0	0	4
PD.6508	PL.41962	B	50QA	7.16Y	119.3	0.00	5.70	5.25	11	36	11	96	0.00	0.0	3.604	0.006	0	0	0	4
PL.62878	PD.6508	B	#1/0 ACSR	7.16Y	119.3	0.00	5.70	5.25	2	36	11	96	0.00	0.0	3.651	0.047	29	8	3	4
PL.62879	PL.62878	B	#1/0 ACSR	7.16Y	119.3	0.00	5.70	1.02	0	7	2	96	0.00	0.0	3.713	0.062	7	2	1	1
PL.54573	PL.54572	ABC	#1/0 ACSR	7.16Y	119.3	0.02	5.72	21.68	9	447	132	96	0.06	0.0	3.648	0.050	16	5	4	59
PL.54574	PL.54573	ABC	#1/0 ACSR	7.16Y	119.3	0.01	5.73	20.92	9	431	127	96	0.03	0.0	3.671	0.023	34	10	7	55
PL.54575	PL.54574	ABC	#1/0 ACSR	7.16Y	119.3	0.02	5.74	19.26	8	396	117	96	0.05	0.0	3.725	0.053	32	9	2	48
PL.54576	PL.54575	ABC	#1/0 ACSR	7.15Y	119.2	0.01	5.76	17.72	8	365	108	96	0.04	0.0	3.773	0.048	43	13	5	46
PL.41963	PL.54576	ABC	#1/0 ACSR	7.15Y	119.2	0.01	5.77	15.63	7	322	95	96	0.03	0.0	3.822	0.049	40	12	3	41
PL.41964	PL.41963	ABC	#1/0 ACSR	7.15Y	119.2	0.01	5.78	13.69	6	282	83	96	0.02	0.0	3.873	0.051	34	10	3	38
PL.43174	PL.41964	ABC	#1/0 ACSR	7.15Y	119.2	0.01	5.79	12.03	5	247	73	96	0.02	0.0	3.916	0.043	10	3	1	35
PL.61022	PL.43174	ABC	#1/0 ACSR	7.15Y	119.2	0.00	5.79	3.93	2	81	25	96	0.00	0.0	3.923	0.007	0	0	0	9
PL.61023	PL.61022	ABC	#1/0 ACSR	7.15Y	119.2	0.00	5.80	3.93	2	81	25	96	0.00	0.0	3.960	0.037	21	6	2	9
PL.61020	PL.61023	ABC	#1/0 ACSR	7.15Y	119.2	0.00	5.80	2.92	1	60	19	95	0.00	0.0	3.996	0.036	0	0	0	7
PL.61024	PL.61020	B	#4 ACSR	7.15Y	119.2	0.00	5.80	7.77	6	53	16	96	0.00	0.0	3.999	0.004	0	0	0	6
PD.9131	PL.61024	B	40QA	7.15Y	119.2	0.00	5.80	7.77	19	53	16	96	0.00	0.0	3.999	0.004	0	0	0	6
PL.61025	PD.9131	B	#4 ACSR	7.15Y	119.2	0.02	5.82	7.77	6	53	16	96	0.01	0.0	4.044	0.044	0	0	0	6
PL.43175	PL.61025	B	#4 ACSR	7.15Y	119.2	0.01	5.83	4.99	4	34	10	96	0.00	0.0	4.093	0.050	0	0	0	4
PL.43176	PL.43175	B	#4 ACSR	7.15Y	119.2	0.01	5.83	4.99	4	34	10	96	0.00	0.0	4.123	0.030	13	4	1	3
PL.43177	PL.43176	B	#4 ACSR	7.15Y	119.2	0.00	5.83	3.13	2	21	6	96	0.00	0.0	4.159	0.036	21	6	2	2
PL.41738	PL.43175	B	#2 ACSR	7.15Y	119.2	0.00	5.83	0.00	0	0	0	100	0.00	0.0	4.125	0.032	0	0	1	1
PL.41838	PL.61025	B	#4 ACSR	7.15Y	119.2	0.00	5.82	2.78	2	19	6	95	0.00	0.0	4.080	0.037	19	6	2	2
PL.61021	PL.61020	ABC	#1/0 ACSR	7.15Y	119.2	0.00	5.80	0.33	0	6	3	89	0.00	0.0	4.006	0.010	0	0	0	1
PL.63262	PL.61021	ABC	#1/0 ACSR	7.15Y	119.2	0.00	5.80	0.33	0	6	3	89	0.00	0.0	4.417	0.411	6	3	1	1
PL.61017	PL.43174	ABC	#4 ACSR	7.15Y	119.2	0.01	5.80	7.61	6	157	46	96	0.01	0.0	3.949	0.033	0	0	0	25
PL.61018	PL.61017	A	#4 ACSR	7.15Y	119.2	0.00	5.81	22.82	18	157	46	96	0.00	0.0	3.953	0.004	0	0	0	25
PD.9130	PL.61018	A	40QA	7.15Y	119.2	0.00	5.81	22.82	57	157	46	96	0.00	0.0	3.953	0.004	0	0	0	25
PL.61019	PD.9130	A	#4 ACSR	7.15Y	119.1	0.06	5.87	22.82	18	157	46	96	0.07	0.0	4.015	0.062	17	5	2	25
PL.43178	PL.61019	A	#4 ACSR	7.15Y	119.1	0.05	5.92	20.39	16	140	41	96	0.05	0.0	4.073	0.059	20	6	6	23
PL.54495	PL.43178	A	#4 ACSR	7.14Y	119.1	0.03	5.94	17.44	13	120	35	96	0.02	0.0	4.113	0.040	33	10	4	17

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.54496	PL.54495	A	#4 ACSR	7.14Y	119.0	0.02	5.97	12.61	10	86	25	96	0.01	0.0	4.164	0.051	29	8	6	13
PL.43179	PL.54496	A	#4 ACSR	7.14Y	119.0	0.01	5.98	8.37	6	57	17	96	0.00	0.0	4.196	0.032	17	5	2	7
PL.41929	PL.43179	A	#4 ACSR	7.14Y	119.0	0.00	5.98	5.92	5	41	12	96	0.00	0.0	4.215	0.019	0	0	0	5
PL.41930	PL.41929	A	#4 ACSR	7.14Y	119.0	0.00	5.98	4.38	3	30	9	96	0.00	0.0	4.243	0.028	30	9	4	4
PL.41314	PL.41929	A	#4 ACSR	7.14Y	119.0	0.00	5.98	1.54	1	11	3	96	0.00	0.0	4.273	0.058	11	3	1	1
PL.43551	PL.43549	C	6 A (CWC)	7.16Y	119.4	0.00	5.65	3.41	2	23	7	96	0.00	0.0	3.494	0.006	0	0	0	2
PD.6507	PL.43551	C	50QA	7.16Y	119.4	0.00	5.65	3.41	7	23	7	96	0.00	0.0	3.494	0.006	0	0	0	2
PL.54577	PD.6507	C	6 A (CWC)	7.16Y	119.3	0.00	5.65	3.41	2	23	7	96	0.00	0.0	3.505	0.011	23	7	2	2
PL.41960	PL.43549	A	6 A (CWC)	7.16Y	119.3	0.00	5.65	7.12	5	49	14	96	0.00	0.0	3.494	0.006	0	0	0	6
PD.6506	PL.41960	A	50QA	7.16Y	119.3	0.00	5.65	7.12	14	49	14	96	0.00	0.0	3.494	0.006	0	0	0	6
PL.41961	PD.6506	A	6 A (CWC)	7.16Y	119.3	0.02	5.67	7.12	5	49	14	96	0.01	0.0	3.540	0.046	0	0	0	6
PL.54578	PL.41961	A	6 A (CWC)	7.16Y	119.3	0.01	5.67	5.92	4	41	12	96	0.00	0.0	3.567	0.027	15	4	2	4
PL.54579	PL.54578	A	6 A (CWC)	7.16Y	119.3	0.00	5.67	3.71	3	26	7	97	0.00	0.0	3.607	0.040	26	7	2	2
PL.54580	PL.41961	A	6 A (CWC)	7.16Y	119.3	0.00	5.67	1.20	1	8	2	97	0.00	0.0	3.563	0.022	8	2	2	2
PL.54472	PL.54467	A	#1/0 ACSR	7.18Y	119.6	0.00	5.36	3.36	1	23	7	96	0.00	0.0	3.156	0.002	0	0	0	3
PD.8138	PL.54472	A	10QA	7.18Y	119.6	0.00	5.36	3.36	0	23	7	96	0.00	0.0	3.156	0.002	0	0	0	3
PL.54553	PD.8138	A	#1/0 ACSR	7.18Y	119.6	0.00	5.36	3.36	1	23	7	96	0.00	0.0	3.192	0.036	23	7	3	3
PL.54545	PL.43169	ABC	#1/0 ACSR	7.20Y	119.9	0.00	5.06	7.83	3	162	47	96	0.00	0.0	2.953	0.026	19	5	7	19
PL.54589	PL.54545	ABC	#1/0 ACSR	7.20Y	119.9	0.01	5.07	6.92	3	143	42	96	0.01	0.0	3.039	0.086	12	4	1	12
PL.54590	PL.54589	C	#1/0 ACSR	7.20Y	119.9	0.00	5.08	18.99	8	131	38	96	0.00	0.0	3.045	0.006	0	0	0	11
PD.6510	PL.54590	C	40QA	7.20Y	119.9	0.00	5.08	18.99	47	131	38	96	0.00	0.0	3.045	0.006	0	0	0	11
PL.54587	PD.6510	C	#1/0 ACSR	7.19Y	119.9	0.01	5.09	18.99	8	131	38	96	0.01	0.0	3.078	0.034	16	5	1	11
PL.54592	PL.54587	C	#1/0 ACSR	7.19Y	119.9	0.02	5.10	16.73	7	116	34	96	0.01	0.0	3.121	0.043	22	7	2	10
PL.54591	PL.54592	C	6 A (CWC)	7.19Y	119.9	0.03	5.14	13.50	10	93	27	96	0.02	0.0	3.186	0.064	28	8	2	8
PL.43173	PL.54591	C	6 A (CWC)	7.19Y	119.8	0.01	5.15	5.60	4	39	11	96	0.00	0.0	3.240	0.054	12	4	1	4
PL.43536	PL.43173	C	6 A (CWC)	7.19Y	119.8	0.00	5.15	3.80	3	26	8	96	0.00	0.0	3.260	0.021	10	3	1	3
PL.43537	PL.43536	C	6 A (CWC)	7.19Y	119.8	0.00	5.16	2.38	2	16	5	95	0.00	0.0	3.294	0.034	9	3	1	2
PL.54731	PL.43537	C	#4 ACSR	7.19Y	119.8	0.00	5.16	1.03	1	7	2	96	0.00	0.0	3.336	0.042	7	2	1	1
PL.43538	PL.43537	C	6 A (CWC)	7.19Y	119.8	0.00	5.16	0.00	0	0	0	100	0.00	0.0	3.314	0.019	0	0	0	0
PL.41498	PL.54591	C	#4 ACSR	7.19Y	119.9	0.01	5.15	3.82	3	26	8	96	0.00	0.0	3.230	0.044	0	0	0	2
PL.54478	PL.41498	C	#1/0 ACSR	7.19Y	119.9	0.00	5.15	3.82	2	26	8	96	0.00	0.0	3.248	0.018	26	8	2	2

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.54588	PL.54589	ABC	#1/0 ACSR	7.20Y	119.9	0.00	5.07	0.00	0	0	0	100	0.00	0.0	3.048	0.009	0	0	0	0
PL.41650	PL.41649	C	6 A (CWC)	7.22Y	120.3	0.01	4.70	23.59	17	163	48	96	0.01	0.0	2.706	0.006	0	0	0	24
PD.6546	PL.41650	C	40T	7.22Y	120.3	0.00	4.70	23.59	0	163	48	96	0.00	0.0	2.706	0.006	0	0	0	24
PL.41651	PD.6546	C	#4 ACSR	7.22Y	120.3	0.03	4.74	23.59	18	163	48	96	0.04	0.0	2.739	0.033	4	1	1	24
PL.54177	PL.41651	C	#4 ACSR	7.21Y	120.2	0.10	4.84	23.00	18	159	47	96	0.13	0.1	2.840	0.101	0	0	0	23
PL.54394	PL.54177	C	#4 ACSR	7.21Y	120.2	0.01	4.85	7.91	6	55	16	96	0.00	0.0	2.862	0.022	27	8	6	8
PL.42475	PL.54394	C	#4 ACSR	7.21Y	120.2	0.00	4.85	3.96	3	27	8	96	0.00	0.0	2.883	0.021	27	8	2	2
PL.53717	PL.42475	C	#4 ACSR	7.21Y	120.2	0.00	4.85	0.00	0	0	0	100	0.00	0.0	2.909	0.026	0	0	0	0
PL.54395	PL.54177	C	6 A (CWC)	7.21Y	120.1	0.03	4.87	9.87	7	68	20	96	0.01	0.0	2.906	0.066	21	6	2	10
PL.54199	PL.54395	C	6 A (CWC)	7.21Y	120.1	0.01	4.87	6.85	5	47	14	96	0.00	0.0	2.930	0.024	4	1	1	8
PL.54200	PL.54199	C	6 A (CWC)	7.21Y	120.1	0.02	4.89	6.34	5	44	13	96	0.01	0.0	3.004	0.074	16	5	1	7
PL.42476	PL.54200	C	6 A (CWC)	7.21Y	120.1	0.01	4.90	4.02	3	28	8	96	0.00	0.0	3.041	0.037	0	0	0	6
PL.54198	PL.42476	C	#2 ACSR	7.21Y	120.1	0.00	4.90	0.00	0	0	0	100	0.00	0.0	3.074	0.033	0	0	1	1
PL.42477	PL.42476	C	6 A (CWC)	7.21Y	120.1	0.01	4.90	4.02	3	28	8	96	0.00	0.0	3.099	0.058	23	7	4	5
PL.42478	PL.42477	C	6 A (CWC)	7.21Y	120.1	0.00	4.90	0.63	0	4	1	97	0.00	0.0	3.128	0.029	4	1	1	1
PL.54396	PL.54177	C	#4 ACSR	7.21Y	120.1	0.02	4.86	5.21	4	36	11	96	0.00	0.0	2.907	0.067	0	0	0	5
PL.42479	PL.54396	C	#4 ACSR	7.21Y	120.1	0.00	4.86	3.87	3	27	8	96	0.00	0.0	2.926	0.019	0	0	1	4
PL.53718	PL.42479	C	#4 ACSR	7.21Y	120.1	0.00	4.86	3.85	3	27	8	96	0.00	0.0	2.950	0.024	27	8	3	3
PL.54732	PL.54396	C	#2 ACSR	7.21Y	120.1	0.00	4.86	1.34	1	9	3	95	0.00	0.0	2.926	0.019	9	3	1	1
PL.58994	PL.58993	ABC	#3/0 ACSR	7.23Y	120.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	2.712	0.100	0	0	0	0
PD.8678-A	PL.58994	ABC	Open	7.23Y	120.5	0.00	4.53	0.00	0	0	0	100	0.00	0.0	2.712	0.100	0	0	0	0
PL.43277	PL.43275	A	#4 ACSR	7.27Y	121.1	0.00	3.90	3.86	3	27	8	96	0.00	0.0	2.132	0.006	0	0	0	2
PD.6545	PL.43277	A	20T	7.27Y	121.1	0.00	3.90	3.86	0	27	8	96	0.00	0.0	2.132	0.006	0	0	0	2
PL.43278	PD.6545	A	#4 ACSR	7.27Y	121.1	0.01	3.91	3.86	3	27	8	96	0.00	0.0	2.206	0.074	13	4	1	2
PL.43013	PL.43278	A	#4 ACSR	7.27Y	121.1	0.00	3.91	1.96	2	14	4	96	0.00	0.0	2.267	0.062	14	4	1	1
PL.63254	PL.63252	C	1/0 AL URD	7.28Y	121.3	0.00	3.73	1.48	1	10	3	96	0.00	0.0	2.055	0.049	10	3	1	1
PL.43385	PL.43384	A	#2 ACSR	7.28Y	121.4	0.00	3.63	3.59	2	25	7	96	0.00	0.0	1.934	0.006	0	0	0	3
PD.6562	PL.43385	A	60QA	7.28Y	121.4	0.00	3.63	3.59	6	25	7	96	0.00	0.0	1.934	0.006	0	0	0	3
PL.43272	PD.6562	A	#2 ACSR	7.28Y	121.4	0.00	3.63	3.59	2	25	7	96	0.00	0.0	1.947	0.012	25	7	3	3
PL.41968	PL.41967	B	#4 ACSR	7.29Y	121.6	0.00	3.45	4.30	3	30	9	96	0.00	0.0	1.805	0.006	0	0	0	3
PD.6561	PL.41968	B	60QA	7.29Y	121.6	0.00	3.45	4.30	7	30	9	96	0.00	0.0	1.805	0.006	0	0	0	3

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.41969	PD.6561	B	#4 ACSR	7.29Y	121.6	0.00	3.45	4.30	3	30	9	96	0.00	0.0	1.818	0.013	10	3	1	3
PL.41970	PL.41969	B	#4 ACSR	7.29Y	121.6	0.00	3.45	2.84	2	20	6	96	0.00	0.0	1.852	0.034	20	6	2	2
PL.53680	PL.53681	A	#4 ACSR	7.30Y	121.7	0.00	3.31	17.86	14	125	37	96	0.00	0.0	1.714	0.006	0	0	0	13
PD.6560	PL.53680	A	60QA	7.30Y	121.7	0.00	3.31	17.86	30	125	37	96	0.00	0.0	1.714	0.006	0	0	0	13
PL.54192	PD.6560	A	#4 ACSR	7.30Y	121.6	0.08	3.40	17.86	14	125	37	96	0.08	0.1	1.829	0.116	21	6	2	13
PL.54193	PL.54192	A	#4 ACSR	7.30Y	121.6	0.01	3.41	8.39	6	59	17	96	0.00	0.0	1.866	0.037	22	6	2	5
PL.54191	PL.54193	A	#4 ACSR	7.30Y	121.6	0.01	3.42	5.22	4	37	11	96	0.00	0.0	1.923	0.057	37	11	3	3
PL.54194	PL.54192	A	#4 ACSR	7.30Y	121.6	0.01	3.41	6.41	5	45	13	96	0.00	0.0	1.864	0.034	25	7	4	6
PL.54195	PL.54194	A	#4 ACSR	7.30Y	121.6	0.00	3.41	2.77	2	19	6	95	0.00	0.0	1.911	0.047	19	6	2	2
PL.60820	PL.61109	ABC	#3/0 ACSR	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	1.641	0.017	0	0	0	0
PD.9065-B	PL.60820	ABC	Open	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	1.641	0.017	0	0	0	0
PL.43123	PL.61109	B	6 A (CWC)	7.31Y	121.8	0.00	3.18	6.00	4	42	12	96	0.00	0.0	1.630	0.006	0	0	0	7
PD.6598	PL.43123	B	60QA	7.31Y	121.8	0.00	3.18	6.00	10	42	12	96	0.00	0.0	1.630	0.006	0	0	0	7
PL.43124	PD.6598	B	6 A (CWC)	7.31Y	121.8	0.01	3.19	6.00	4	42	12	96	0.00	0.0	1.668	0.039	7	2	1	7
PL.43125	PL.43124	B	6 A (CWC)	7.31Y	121.8	0.00	3.19	4.95	4	35	10	96	0.00	0.0	1.690	0.022	18	5	2	6
PL.43126	PL.43125	B	6 A (CWC)	7.31Y	121.8	0.00	3.19	2.37	2	17	5	96	0.00	0.0	1.729	0.039	17	5	4	4
PL.60817	PL.60816	C	6 A (CWC)	7.32Y	122.0	0.00	2.96	2.33	2	16	5	95	0.00	0.0	1.407	0.003	0	0	0	1
PD.9064	PL.60817	C	10T	7.32Y	122.0	0.00	2.96	2.33	0	16	5	95	0.00	0.0	1.407	0.003	0	0	0	1
PL.60818	PD.9064	C	6 A (CWC)	7.32Y	122.0	0.00	2.97	2.33	2	16	5	95	0.00	0.0	1.468	0.061	16	5	1	1
PL.59600	PL.59601	ABC	#3/0 ACSR	7.34Y	122.3	0.00	2.75	2.52	1	53	16	96	0.00	0.0	1.216	0.029	11	3	1	5
PL.59599	PL.59600	C	#4 ACSR	7.33Y	122.2	0.00	2.75	3.19	2	22	7	95	0.00	0.0	1.245	0.029	10	3	1	2
PL.56751	PL.59599	C	#4 ACSR	7.33Y	122.2	0.00	2.75	1.81	1	13	4	96	0.00	0.0	1.265	0.020	13	4	1	1
PL.59598	PL.59600	ABC	#3/0 ACSR	7.34Y	122.3	0.00	2.75	0.94	0	20	6	96	0.00	0.0	1.270	0.054	0	0	0	2
PL.54726	PL.59598	A	#2 ACSR	7.34Y	122.3	0.00	2.75	2.81	2	20	6	96	0.00	0.0	1.276	0.006	0	0	0	2
PD.6566	PL.54726	A	60QA	7.34Y	122.3	0.00	2.75	2.81	5	20	6	96	0.00	0.0	1.276	0.006	0	0	0	2
PL.54471	PD.6566	A	#2 ACSR	7.34Y	122.3	0.00	2.75	2.81	2	20	6	96	0.00	0.0	1.294	0.018	20	6	2	2
PL.59603	PL.59598	ABC	#3/0 ACSR	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	1.284	0.014	0	0	0	0
PD.8799-B	PL.59603	ABC	Open	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	1.284	0.014	0	0	0	0
PL.59265	PL.59266	B	#2 ACSR	7.34Y	122.3	0.00	2.70	3.88	2	27	8	96	0.00	0.0	1.202	0.045	27	8	5	5
PL.54544	PL.54542	A	#4 ACSR	7.36Y	122.7	0.11	2.35	50.47	39	357	104	96	0.30	0.1	0.944	0.050	5	2	3	36
PL.43164	PL.54544	A	#4 ACSR	7.36Y	122.6	0.01	2.36	36.76	28	260	76	96	0.02	0.0	0.950	0.006	0	0	0	25

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

Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.6134	PL.43164	A	50T	7.36Y	122.6	0.00	2.36	36.76	0	260	76	96	0.00	0.0	0.950	0.006	0	0	0	25
PL.53697	PD.6134	A	#4 ACSR	7.36Y	122.6	0.04	2.40	36.76	28	260	76	96	0.09	0.0	0.978	0.028	14	4	2	25
PL.53698	PL.53697	A	#4 ACSR	7.35Y	122.5	0.08	2.48	34.76	27	245	72	96	0.15	0.1	1.033	0.056	22	6	2	23
PL.43011	PL.53698	A	#4 ACSR	7.35Y	122.4	0.10	2.58	25.00	19	176	52	96	0.12	0.1	1.123	0.089	15	4	1	17
PL.53699	PL.43011	A	#2 ACSR	7.35Y	122.4	0.00	2.58	1.69	1	12	3	97	0.00	0.0	1.134	0.011	12	3	1	1
PL.53703	PL.43011	A	#4 ACSR	7.34Y	122.4	0.03	2.61	21.20	16	149	44	96	0.03	0.0	1.156	0.034	7	2	1	15
PL.53704	PL.53703	A	#4 ACSR	7.34Y	122.4	0.00	2.61	3.57	3	25	7	96	0.00	0.0	1.186	0.030	9	3	2	4
PL.43012	PL.53704	A	#4 ACSR	7.34Y	122.4	0.00	2.62	2.32	2	16	5	95	0.00	0.0	1.235	0.049	16	5	2	2
PL.53705	PL.53703	A	#4 ACSR	7.34Y	122.4	0.04	2.64	16.66	13	117	34	96	0.03	0.0	1.203	0.047	0	0	0	10
PL.53700	PL.53705	A	#4 ACSR	7.34Y	122.3	0.04	2.68	16.66	13	117	34	96	0.03	0.0	1.256	0.052	10	3	1	10
PL.53701	PL.53700	A	#4 ACSR	7.34Y	122.3	0.02	2.70	15.20	12	107	31	96	0.02	0.0	1.288	0.032	7	2	1	9
PL.53702	PL.53701	A	#4 ACSR	7.34Y	122.3	0.02	2.72	14.26	11	100	29	96	0.02	0.0	1.325	0.038	17	5	1	8
PL.53696	PL.53702	A	#4 ACSR	7.34Y	122.3	0.02	2.75	11.78	9	83	24	96	0.01	0.0	1.370	0.045	19	5	2	7
PL.64373	PL.53696	A	#4 ACSR	7.33Y	122.2	0.03	2.77	9.13	7	64	19	96	0.01	0.0	1.436	0.066	8	2	1	5
PL.64374	PL.64373	A	#4 ACSR	7.33Y	122.2	0.00	2.77	7.99	6	56	16	96	0.00	0.0	1.436	0.000	12	4	1	4
PL.53694	PL.64374	A	#4 ACSR	7.33Y	122.2	0.02	2.79	6.25	5	44	13	96	0.00	0.0	1.515	0.079	19	6	1	3
PL.53695	PL.53694	A	#4 ACSR	7.33Y	122.2	0.00	2.79	3.55	3	25	7	96	0.00	0.0	1.562	0.046	25	7	2	2
PL.53706	PL.53698	A	#1/0 ACSR	7.35Y	122.5	0.00	2.48	1.96	1	14	4	96	0.00	0.0	1.057	0.023	14	4	1	1
PL.43010	PL.53698	A	#4 ACSR	7.35Y	122.5	0.01	2.49	4.69	4	33	10	96	0.00	0.0	1.093	0.059	20	6	2	3
PL.53693	PL.43010	A	#4 ACSR	7.35Y	122.5	0.00	2.49	1.92	1	14	4	96	0.00	0.0	1.144	0.051	14	4	1	1
PL.43165	PL.54544	A	#4 ACSR	7.36Y	122.6	0.03	2.38	12.97	10	92	27	96	0.02	0.0	0.995	0.051	3	1	1	8
PL.54719	PL.43165	A	#4 ACSR	7.35Y	122.6	0.04	2.42	12.57	10	89	26	96	0.03	0.0	1.098	0.103	41	12	2	7
PL.54720	PL.54719	A	#4 ACSR	7.35Y	122.6	0.00	2.42	6.77	5	48	14	96	0.00	0.0	1.112	0.013	0	0	0	5
PL.54721	PL.54720	A	#4 ACSR	7.35Y	122.6	0.01	2.43	6.77	5	48	14	96	0.00	0.0	1.154	0.043	20	6	3	5
PL.43009	PL.54721	A	#4 ACSR	7.35Y	122.6	0.00	2.44	3.91	3	28	8	96	0.00	0.0	1.190	0.035	28	8	2	2
PL.54543	PL.54542	A	6 A (CWC)	7.37Y	122.8	0.00	2.24	15.44	11	109	32	96	0.00	0.0	0.900	0.006	0	0	0	11
PD.6138	PL.54543	A	25T	7.37Y	122.8	0.00	2.24	15.44	0	109	32	96	0.00	0.0	0.900	0.006	0	0	0	11
PL.41504	PD.6138	A	6 A (CWC)	7.36Y	122.7	0.02	2.26	15.44	11	109	32	96	0.01	0.0	0.927	0.027	14	4	3	11
PL.54581	PL.41504	A	6 A (CWC)	7.36Y	122.7	0.03	2.28	13.52	10	96	28	96	0.02	0.0	0.972	0.046	0	0	0	8
PL.54583	PL.54581	A	6 A (CWC)	7.36Y	122.7	0.02	2.31	13.52	10	96	28	96	0.01	0.0	1.013	0.040	23	7	1	8
PL.54584	PL.54583	A	6 A (CWC)	7.36Y	122.7	0.01	2.32	6.73	5	48	14	96	0.00	0.0	1.056	0.044	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: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.54585	PL.54584	A	6 A (CWC)	7.36Y	122.7	0.02	2.34	6.73	5	48	14	96	0.01	0.0	1.138	0.082	14	4	1	4
PL.54586	PL.54585	A	6 A (CWC)	7.36Y	122.6	0.01	2.35	4.76	3	34	10	96	0.00	0.0	1.189	0.050	8	2	1	3
PL.43162	PL.54586	A	6 A (CWC)	7.36Y	122.6	0.00	2.36	3.56	3	25	7	96	0.00	0.0	1.220	0.032	10	3	1	2
PL.43163	PL.43162	A	6 A (CWC)	7.36Y	122.6	0.01	2.36	2.14	2	15	4	97	0.00	0.0	1.373	0.153	15	4	1	1
PL.54582	PL.54583	A	#4 ACSR	7.36Y	122.7	0.01	2.31	3.58	3	25	7	96	0.00	0.0	1.075	0.062	8	2	2	3
PL.54751	PL.54582	A	#1/0 ACSR	7.36Y	122.7	0.00	2.32	2.39	1	17	5	96	0.00	0.0	1.113	0.038	17	5	1	1
PL.54612	PL.41633	ABC	#1/0 ACSR	7.36Y	122.7	0.21	2.25	43.41	19	923	266	96	1.32	0.1	1.071	0.265	14	4	2	123
PL.54610	PL.54612	B	#2 ACSR	7.36Y	122.7	0.00	2.25	0.46	0	3	1	95	0.00	0.0	1.095	0.025	3	1	1	1
PL.54657	PL.54612	ABC	#1/0 ACSR	7.36Y	122.7	0.03	2.29	34.43	15	731	209	96	0.17	0.0	1.124	0.054	15	4	1	99
PL.54661	PL.54657	ABC	#1/0 ACSR	7.36Y	122.7	0.04	2.32	20.05	9	426	120	96	0.10	0.0	1.226	0.102	24	7	4	59
PL.54660	PL.54661	B	6 A (CWC)	7.36Y	122.7	0.00	2.32	1.69	1	12	3	97	0.00	0.0	1.246	0.020	12	3	1	1
PL.54662	PL.54661	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.33	18.34	8	390	110	96	0.03	0.0	1.259	0.033	20	6	1	54
PL.54664	PL.54662	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.34	17.41	8	370	104	96	0.02	0.0	1.287	0.028	0	0	0	53
PL.54666	PL.54664	A	1/0 AL URD	7.36Y	122.7	0.00	2.34	3.72	2	26	7	97	0.00	0.0	1.290	0.003	0	0	0	5
PD.8147	PL.54666	A	40QA	7.36Y	122.7	0.00	2.34	3.72	9	26	7	97	0.00	0.0	1.290	0.003	0	0	0	5
PL.54667	PD.8147	A	1/0 AL URD	7.36Y	122.7	0.00	2.34	3.72	2	26	7	97	0.00	0.0	1.304	0.014	4	1	1	5
PL.54665	PL.54667	A	1/0 AL URD	7.36Y	122.7	0.00	2.35	3.22	2	23	6	97	0.00	0.0	1.339	0.036	8	2	2	4
PL.54663	PL.54665	A	1/0 AL URD	7.36Y	122.7	0.00	2.35	2.06	1	15	4	97	0.00	0.0	1.374	0.034	15	4	2	2
PL.54668	PL.54663	A	1/0 AL URD	7.36Y	122.7	0.00	2.35	-0.01	0	0	0	100	0.00	0.0	1.390	0.016	0	0	0	0
P PL.54669	PL.54668	A	1/0 AL URD	7.36Y	122.7	0.00	2.35	0.00	0	0	0	100	0.00	0.0	1.392	0.002	0	0	0	0 P
PL.54403	PL.54664	ABC	#1/0 ACSR	7.36Y	122.7	0.00	2.35	16.17	7	344	96	96	0.01	0.0	1.301	0.014	0	0	0	48
PL.54404	PL.54403	ABC	1/0 AL URD	7.36Y	122.6	0.01	2.35	16.17	10	344	96	96	0.01	0.0	1.317	0.017	9	3	1	48
PL.54405	PL.54404	ABC	1/0 AL URD	7.36Y	122.6	0.01	2.36	15.75	9	335	94	96	0.03	0.0	1.351	0.033	11	3	2	47
PL.54412	PL.54405	ABC	1/0 AL URD	7.36Y	122.6	0.02	2.38	15.24	9	324	91	96	0.05	0.0	1.417	0.067	0	0	0	45
PL.54413	PL.54412	ABC	1/0 AL URD	7.36Y	122.6	0.00	2.38	1.11	1	24	5	98	0.00	0.0	1.456	0.039	13	4	1	3
PL.54408	PL.54413	ABC	1/0 AL URD	7.36Y	122.6	0.00	2.38	0.50	0	11	2	98	0.00	0.0	1.495	0.039	0	0	0	2
PL.54407	PL.54408	ABC	1/0 AL URD	7.36Y	122.6	0.00	2.38	0.50	0	11	2	98	0.00	0.0	1.535	0.040	5	1	1	2
PL.54406	PL.54407	ABC	1/0 AL URD	7.36Y	122.6	0.00	2.38	0.28	0	6	1	99	0.00	0.0	1.574	0.039	0	0	0	1
PL.54714	PL.54406	A	1/0 AL URD	7.36Y	122.6	0.00	2.38	-0.02	0	0	0	100	0.00	0.0	1.603	0.029	0	0	0	0
PL.54715	PL.54406	C	1/0 AL URD	7.36Y	122.6	0.00	2.38	0.85	0	6	2	95	0.00	0.0	1.590	0.016	6	2	1	1
PL.54414	PL.54412	B	1/0 AL URD	7.36Y	122.6	0.02	2.41	42.46	25	300	87	96	0.06	0.0	1.435	0.018	0	0	1	42

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.54409	PL.54414	B	1/0 AL URD	7.35Y	122.5	0.07	2.48	42.46	25	300	87	96	0.16	0.1	1.489	0.053	18	5	4	41
PL.54410	PL.54409	B	1/0 AL URD	7.35Y	122.5	0.03	2.50	39.90	23	282	82	96	0.06	0.0	1.510	0.022	0	0	0	37
PL.54419	PL.54410	B	1/0 AL URD	7.35Y	122.5	0.02	2.53	39.90	23	282	82	96	0.05	0.0	1.531	0.020	18	5	3	37
PL.54420	PL.54419	B	1/0 AL URD	7.35Y	122.4	0.05	2.58	37.38	22	264	77	96	0.11	0.0	1.574	0.043	2	1	2	34
PL.62921	PL.54420	B	#1/0 ACSR	7.35Y	122.4	0.00	2.58	30.82	13	217	64	96	0.00	0.0	1.577	0.003	0	0	0	30
PD.9342	PL.62921	B	30T	7.35Y	122.4	0.00	2.58	30.82	0	217	64	96	0.00	0.0	1.577	0.003	0	0	0	30
PL.62455	PD.9342	B	6 A (CWC)	7.34Y	122.3	0.07	2.65	30.82	22	217	64	96	0.12	0.1	1.629	0.052	4	1	1	30
PL.54151	PL.62455	B	6 A (CWC)	7.34Y	122.3	0.06	2.71	28.15	20	198	58	96	0.09	0.0	1.679	0.049	15	4	2	26
PL.42466	PL.54151	B	6 A (CWC)	7.33Y	122.2	0.13	2.84	26.01	19	183	54	96	0.18	0.1	1.787	0.108	0	0	0	24
PL.54712	PL.42466	B	6 A (CWC)	7.33Y	122.1	0.02	2.87	23.03	16	162	47	96	0.03	0.0	1.811	0.024	2	1	1	22
PL.54713	PL.54712	B	6 A (CWC)	7.33Y	122.1	0.02	2.89	22.69	16	160	47	96	0.02	0.0	1.831	0.021	13	4	1	21
PL.54711	PL.54713	B	6 A (CWC)	7.33Y	122.1	0.02	2.91	20.87	15	147	43	96	0.02	0.0	1.852	0.021	11	3	2	20
PL.54297	PL.54711	B	6 A (CWC)	7.32Y	122.1	0.03	2.94	12.42	9	87	25	96	0.02	0.0	1.915	0.063	8	2	1	10
PL.54299	PL.54297	B	6 A (CWC)	7.32Y	122.0	0.05	2.99	11.29	8	79	23	96	0.03	0.0	2.009	0.093	10	3	1	9
PL.54298	PL.54299	B	6 A (CWC)	7.32Y	122.0	0.01	3.00	9.85	7	69	20	96	0.00	0.0	2.032	0.023	30	9	2	8
PL.42472	PL.54298	B	6 A (CWC)	7.32Y	122.0	0.01	3.01	5.65	4	40	12	96	0.00	0.0	2.068	0.036	6	2	1	6
PL.54310	PL.42472	B	6 A (CWC)	7.32Y	122.0	0.01	3.01	4.86	3	34	10	96	0.00	0.0	2.123	0.055	34	10	5	5
PL.42467	PL.54711	B	6 A (CWC)	7.32Y	122.1	0.01	2.92	6.86	5	48	14	96	0.01	0.0	1.902	0.050	7	2	1	8
PL.42470	PL.42467	B	6 A (CWC)	7.32Y	122.1	0.01	2.93	5.88	4	41	12	96	0.00	0.0	1.945	0.043	8	2	1	7
PL.42471	PL.42470	B	6 A (CWC)	7.32Y	122.1	0.01	2.94	4.72	3	33	10	96	0.00	0.0	1.982	0.036	11	3	2	6
PL.42469	PL.42471	B	6 A (CWC)	7.32Y	122.1	0.00	2.94	3.20	2	22	7	95	0.00	0.0	2.015	0.033	20	6	3	4
PL.42468	PL.42469	B	6 A (CWC)	7.32Y	122.1	0.00	2.94	0.35	0	2	1	89	0.00	0.0	2.058	0.043	2	1	1	1
PL.54710	PL.42466	B	#4 ACSR	7.33Y	122.2	0.00	2.85	2.98	2	21	6	96	0.00	0.0	1.830	0.043	21	6	2	2
PL.54152	PL.62455	B	#4 ACSR	7.34Y	122.3	0.00	2.66	2.09	2	15	4	97	0.00	0.0	1.669	0.040	7	2	2	3
PL.54153	PL.54152	B	#4 ACSR	7.34Y	122.3	0.00	2.66	1.07	1	8	2	97	0.00	0.0	1.750	0.081	8	2	1	1
PL.54154	PL.54420	B	#2 ACSR	7.34Y	122.4	0.01	2.59	6.23	4	44	13	96	0.00	0.0	1.651	0.077	28	8	1	2
PL.54411	PL.54154	B	#2 ACSR	7.34Y	122.4	0.00	2.59	2.32	1	16	5	95	0.00	0.0	1.711	0.061	16	5	1	1
PL.54415	PL.54412	A	1/0 AL URD	7.36Y	122.6	0.00	2.38	0.00	0	0	0	100	0.00	0.0	1.420	0.002	0	0	0	0
PL.54658	PL.54657	B	#4 ACSR	7.36Y	122.7	0.01	2.29	38.79	30	274	80	96	0.02	0.0	1.129	0.004	0	0	0	35
C PD.8144	PL.54658	B	40QA	7.36Y	122.7	0.00	2.29	38.79	97	274	80	96	0.00	0.0	1.129	0.004	0	0	0	35 C
PL.54615	PD.8144	B	#4 ACSR	7.36Y	122.7	0.05	2.34	38.79	30	274	80	96	0.10	0.0	1.158	0.029	0	0	0	35

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Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.54617	PL.54615	B	#4 ACSR	7.36Y	122.6	0.06	2.41	38.79	30	274	80	96	0.12	0.0	1.194	0.036	16	5	3	35
PL.54616	PL.54617	B	#4 ACSR	7.35Y	122.6	0.04	2.45	36.48	28	258	75	96	0.08	0.0	1.220	0.026	0	0	0	32
PL.54621	PL.54616	B	#4 ACSR	7.35Y	122.5	0.02	2.47	9.97	8	70	21	96	0.01	0.0	1.280	0.060	12	3	2	11
PL.54624	PL.54621	B	#4 ACSR	7.35Y	122.5	0.01	2.49	8.33	6	59	17	96	0.00	0.0	1.322	0.042	25	7	2	9
PL.54623	PL.54624	B	#4 ACSR	7.35Y	122.5	0.01	2.49	3.86	3	27	8	96	0.00	0.0	1.384	0.061	23	7	3	5
PL.54155	PL.54623	B	#2 ACSR	7.35Y	122.5	0.00	2.49	0.64	0	5	1	98	0.00	0.0	1.409	0.025	5	1	2	2
PL.54625	PL.54624	B	#2 ACSR	7.35Y	122.5	0.00	2.49	0.86	0	6	2	95	0.00	0.0	1.368	0.046	1	0	1	2
PL.54622	PL.54625	B	#2 ACSR	7.35Y	122.5	0.00	2.49	0.65	0	5	1	98	0.00	0.0	1.391	0.023	5	1	1	1
PL.54620	PL.54616	B	#4 ACSR	7.35Y	122.5	0.01	2.45	3.92	3	28	8	96	0.00	0.0	1.274	0.054	23	7	2	3
PL.54626	PL.54620	B	#4 ACSR	7.35Y	122.5	0.00	2.45	0.62	0	4	1	97	0.00	0.0	1.312	0.038	4	1	1	1
PL.54618	PL.54616	B	#4 ACSR	7.35Y	122.5	0.02	2.47	20.84	16	147	43	96	0.02	0.0	1.241	0.021	24	7	4	16
PL.54619	PL.54618	B	#4 ACSR	7.35Y	122.5	0.03	2.50	17.39	13	123	36	96	0.03	0.0	1.282	0.041	17	5	1	12
PL.43188	PL.54619	B	#4 ACSR	7.35Y	122.5	0.01	2.51	14.97	12	106	31	96	0.01	0.0	1.301	0.018	0	0	0	11
PL.41697	PL.43188	B	#4 ACSR	7.35Y	122.5	0.00	2.51	1.70	1	12	4	95	0.00	0.0	1.324	0.023	12	4	1	1
PL.43189	PL.43188	B	#4 ACSR	7.35Y	122.5	0.02	2.53	11.97	9	84	25	96	0.01	0.0	1.345	0.044	16	5	3	8
PL.53975	PL.43189	B	#4 ACSR	7.35Y	122.5	0.01	2.54	9.65	7	68	20	96	0.01	0.0	1.382	0.037	17	5	1	5
PL.53976	PL.53975	B	#4 ACSR	7.35Y	122.5	0.00	2.55	3.36	3	24	7	96	0.00	0.0	1.419	0.037	9	3	1	2
PL.54157	PL.53976	B	#4 ACSR	7.35Y	122.4	0.00	2.55	2.11	2	15	4	97	0.00	0.0	1.459	0.040	15	4	1	1
PL.54156	PL.54157	B	#4 ACSR	7.35Y	122.4	0.00	2.55	0.00	0	0	0	100	0.00	0.0	1.488	0.029	0	0	0	0
PL.54158	PL.53975	B	#2 ACSR	7.35Y	122.5	0.00	2.55	3.94	2	28	8	96	0.00	0.0	1.402	0.020	28	8	2	2
PL.41322	PL.43188	B	#4 ACSR	7.35Y	122.5	0.00	2.51	1.30	1	9	3	95	0.00	0.0	1.325	0.024	9	3	2	2
PL.43345	PL.54616	B	#2 ACSR	7.35Y	122.6	0.00	2.45	1.76	1	12	4	95	0.00	0.0	1.252	0.032	9	3	1	2
PL.43346	PL.43345	B	#2 ACSR	7.35Y	122.6	0.00	2.45	0.50	0	4	1	97	0.00	0.0	1.271	0.019	4	1	1	1
PL.54659	PL.54657	B	#4 ACSR	7.36Y	122.7	0.00	2.29	2.18	2	15	4	97	0.00	0.0	1.129	0.005	0	0	0	4
PD.8145	PL.54659	B	20QA	7.36Y	122.7	0.00	2.29	2.18	11	15	4	97	0.00	0.0	1.129	0.005	0	0	0	4
PL.54628	PD.8145	B	#4 ACSR	7.36Y	122.7	0.00	2.29	2.18	2	15	4	97	0.00	0.0	1.176	0.047	3	1	1	4
PL.54627	PL.54628	B	6 A (CWC)	7.36Y	122.7	0.00	2.29	1.80	1	13	4	96	0.00	0.0	1.205	0.029	9	3	1	3
PL.54656	PL.54627	B	6 A (CWC)	7.36Y	122.7	0.00	2.29	0.58	0	4	1	97	0.00	0.0	1.255	0.050	4	1	2	2
PL.54613	PL.54612	B	#4 ACSR	7.36Y	122.7	0.00	2.26	24.52	19	173	51	96	0.01	0.0	1.074	0.004	0	0	0	21
PD.8146	PL.54613	B	25T	7.36Y	122.7	0.00	2.26	24.52	0	173	51	96	0.00	0.0	1.074	0.004	0	0	0	21
PL.54614	PD.8146	B	#4 ACSR	7.36Y	122.6	0.16	2.41	24.52	19	173	51	96	0.20	0.1	1.221	0.147	13	4	1	21

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

Balanced Voltage Drop Report
Source: Pine Grove 1

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	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.54611	PL.54614	B	#4 ACSR	7.35Y	122.5	0.04	2.46	22.65	17	160	47	96	0.05	0.0	1.268	0.047	19	6	2	20
PL.42253	PL.54611	B	#4 ACSR	7.35Y	122.5	0.07	2.53	19.94	15	141	41	96	0.07	0.1	1.349	0.081	14	4	1	18
PL.42254	PL.42253	B	#4 ACSR	7.35Y	122.5	0.01	2.54	18.02	14	127	37	96	0.01	0.0	1.368	0.019	9	3	1	17
PL.42255	PL.42254	B	#4 ACSR	7.35Y	122.4	0.03	2.57	16.73	13	118	34	96	0.02	0.0	1.418	0.050	48	14	7	16
PL.42256	PL.42255	B	#4 ACSR	7.34Y	122.4	0.02	2.59	9.90	8	70	20	96	0.01	0.0	1.473	0.055	22	6	2	9
PL.43341	PL.42256	B	#4 ACSR	7.34Y	122.4	0.01	2.60	6.84	5	48	14	96	0.00	0.0	1.511	0.038	0	0	1	7
PL.43342	PL.43341	B	#4 ACSR	7.34Y	122.4	0.01	2.61	6.84	5	48	14	96	0.00	0.0	1.530	0.019	12	4	1	6
PL.43343	PL.43342	B	#4 ACSR	7.34Y	122.4	0.01	2.62	5.08	4	36	10	96	0.00	0.0	1.587	0.057	4	1	1	5
PL.43344	PL.43343	B	#4 ACSR	7.34Y	122.4	0.00	2.62	3.18	2	22	7	95	0.00	0.0	1.597	0.010	15	4	2	3
PL.54964	PL.43344	B	#4 ACSR	7.34Y	122.4	0.00	2.62	1.01	1	7	2	96	0.00	0.0	1.660	0.063	7	2	1	1
PL.54963	PL.43343	B	#4 ACSR	7.34Y	122.4	0.00	2.62	1.33	1	9	3	95	0.00	0.0	1.663	0.076	9	3	1	1
PL.60908	PL.41632	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	0.591	0.006	0	0	0	0
PD.9093	PL.60908	C	60QA	7.41Y	123.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	0.591	0.006	0	0	0	0
PL.60909	PD.9093	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	0.698	0.107	0	0	0	0
PL.43333	PL.43328	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	0.439	0.006	0	0	0	0
PD.6131	PL.43333	C	60QA	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	0.439	0.006	0	0	0	0
PL.43334	PD.6131	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	0.506	0.068	0	0	0	0
PL.43376	PL.43373	C	6 A (CWC)	7.48Y	124.6	0.00	0.41	8.21	6	59	17	96	0.00	0.0	0.215	0.006	0	0	0	6
PD.6132	PL.43376	C	60QA	7.48Y	124.6	0.00	0.41	8.21	14	59	17	96	0.00	0.0	0.215	0.006	0	0	0	6
PL.43377	PD.6132	C	6 A (CWC)	7.47Y	124.6	0.03	0.45	8.21	6	59	17	96	0.01	0.0	0.300	0.085	0	0	0	6
PL.60850	PL.43377	C	6 A (CWC)	7.47Y	124.6	0.00	0.45	4.32	3	31	9	96	0.00	0.0	0.322	0.022	31	9	4	4
PL.41822	PL.43377	C	#4 ACSR	7.47Y	124.6	0.00	0.45	0.00	0	0	0	100	0.00	0.0	0.374	0.074	0	0	0	0
PL.41303	PL.43377	C	#4 ACSR	7.47Y	124.5	0.00	0.45	3.89	3	28	8	96	0.00	0.0	0.352	0.052	28	8	2	2
PL.43374	PL.43372	A	#4 ACSR	7.49Y	124.8	0.00	0.22	3.06	2	22	6	96	0.00	0.0	0.148	0.006	0	0	0	2
PD.6130	PL.43374	A	60QA	7.49Y	124.8	0.00	0.22	3.06	5	22	6	96	0.00	0.0	0.148	0.006	0	0	0	2
PL.43375	PD.6130	A	#4 ACSR	7.49Y	124.8	0.00	0.23	3.06	2	22	6	96	0.00	0.0	0.211	0.063	22	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: Pine Grove 1

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	10553	0	0	0	0	0	270		0.00	10823	Lowest Voltage =	117.67 on Element PL.63529
KVAR	3133	0	0	-53	0	0	482			3562	Max Accm VoltD =	7.33 on Element PL.63529
											Max Elem VoltD =	0.55 on Element PL.43064