Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
Maretburg		ABC	SRC-Maretb	7.50Y	125.0	0.00	0.00	524.06	0	11196	3701	95	0.00	0.0	0.000	0.000	0	0	0	814
PL.53004	Maretburg	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	196.05	38	4262	1138	97	0.07	0.0	0.002	0.002	0	0	0	390
PL.53007	PL.53004	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	196.05	38	4262	1138	97	0.07	0.0	0.004	0.002	0	0	0	390
---------- Feeder No. 1 (Maretburg F1) Beginning with Device PD.8063 ----------																				
PD.8063	PL.53007	ABC	480VWE	7.50Y	125.0	0.00	0.01	196.05	0	4262	1137	97	0.00	0.0	0.004	0.002	0	0	0	390
PL.57266	PD.8063	ABC	336 MCM AC	7.50Y	125.0	0.02	0.02	196.05	38	4262	1137	97	0.34	0.0	0.015	0.011	0	0	0	390
PL.57268	PL.57266	ABC	336 MCM AC	7.49Y	124.8	0.16	0.18	189.33	36	4121	1075	97	3.54	0.1	0.132	0.117	0	0	0	383
PL.57263	PL.57268	ABC	#1/0 ACSR	7.49Y	124.8	0.00	0.18	5.46	2	111	53	90	0.00	0.0	0.137	0.006	0	0	0	3
PL.50063	PL.57263	B	#4 ACSR	7.49Y	124.8	0.00	0.18	0.46	0	3	1	95	0.00	0.0	0.184	0.047	3	1	1	1
PL.52627	PL.57263	ABC	#1/0 ACSR	7.49Y	124.8	0.00	0.19	5.31	2	107	52	90	0.00	0.0	0.178	0.040	0	0	0	2
PL.52626	PL.52627	ABC	#1/0 ACSR	7.49Y	124.8	0.00	0.19	1.77	1	36	17	90	0.00	0.0	0.235	0.057	36	17	1	1
PL.60781	PL.52627	ABC	#1/0 ACSR	7.49Y	124.8	0.01	0.19	3.53	2	71	35	90	0.00	0.0	0.251	0.073	0	0	0	1
PL.60779	PL.60781	ABC	336 MCM AC	7.49Y	124.8	0.00	0.19	0.00	0	0	0	100	0.00	0.0	0.286	0.035	0	0	0	0
PL.60780	PL.60781	ABC	#2 ACSR	7.49Y	124.8	0.00	0.19	3.53	2	71	35	90	0.00	0.0	0.274	0.023	0	0	0	1
PL.50058	PL.60780	ABC	1/0 AL URD	7.49Y	124.8	0.00	0.20	3.53	2	71	35	90	0.00	0.0	0.308	0.034	71	35	1	1
PL.57264	PL.57268	ABC	336 MCM AC	7.48Y	124.6	0.21	0.39	183.97	35	4007	1014	97	4.51	0.1	0.290	0.158	0	0	0	380
PL.52633	PL.57264	B	#4 ACSR	7.48Y	124.6	0.00	0.39	0.31	0	2	1	89	0.00	0.0	0.313	0.023	2	1	1	1
PL.52630	PL.57264	ABC	336 MCM AC	7.47Y	124.5	0.07	0.46	183.87	35	4000	1003	97	1.54	0.0	0.344	0.054	0	0	0	379
PL.52632	PL.52630	ABC	336 MCM AC	7.47Y	124.5	0.00	0.46	0.00	0	0	0	100	0.00	0.0	0.376	0.032	0	0	0	0
PL.52631	PL.52630	ABC	336 MCM AC	7.47Y	124.5	0.06	0.53	183.87	35	3999	999	97	1.36	0.0	0.392	0.048	0	0	0	379
PL.50052	PL.52631	ABC	336 MCM AC	7.47Y	124.4	0.03	0.56	183.87	35	3997	996	97	0.68	0.0	0.416	0.024	0	0	0	379
PL.50053	PL.50052	ABC	336 MCM AC	7.47Y	124.4	0.01	0.56	124.72	24	2712	670	97	0.09	0.0	0.422	0.006	2	1	1	252
PL.49539	PL.50053	ABC	336 MCM AC	7.46Y	124.3	0.11	0.67	124.62	24	2710	669	97	1.58	0.1	0.544	0.122	17	4	2	251
PL.49541	PL.49539	ABC	336 MCM AC	7.46Y	124.3	0.06	0.73	123.45	24	2683	659	97	0.81	0.0	0.607	0.063	6	2	1	248
PL.49542	PL.49541	ABC	336 MCM AC	7.45Y	124.2	0.09	0.82	122.91	24	2671	654	97	1.28	0.0	0.708	0.101	0	0	0	246
PL.50002	PL.49542	ABC	336 MCM AC	7.45Y	124.1	0.04	0.85	107.03	21	2324	569	97	0.46	0.0	0.755	0.048	30	7	1	219
PL.50003	PL.50002	C	6 A (CWC)	7.45Y	124.1	0.00	0.85	0.01	0	0	0	100	0.00	0.0	0.756	0.001	0	0	0	1
PD.7693	PL.50003	C	40QA	7.45Y	124.1	0.00	0.85	0.01	0	0	0	100	0.00	0.0	0.756	0.001	0	0	0	1
PL.50005	PD.7693	C	6 A (CWC)	7.45Y	124.1	0.00	0.85	0.01	0	0	0	100	0.00	0.0	0.878	0.122	0	0	1	1
PL.50006	PL.50005	C	6 A (CWC)	7.45Y	124.1	0.00	0.85	0.00	0	0	0	100	0.00	0.0	0.911	0.033	0	0	0	0

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50007	PL.50006	C	6 A (CWC)	7.45Y	124.1	0.00	0.85	0.00	0	0	0	100	0.00	0.0	0.964	0.053	0	0	0	0
PL.50004	PL.50002	ABC	336 MCM AC	7.45Y	124.1	0.05	0.90	105.64	20	2293	560	97	0.58	0.0	0.817	0.062	0	0	0	217
PL.50103	PL.50004	ABC	336 MCM AC	7.44Y	124.0	0.06	0.95	104.59	20	2270	554	97	0.68	0.0	0.891	0.074	0	0	0	215
PL.52508	PL.50103	ABC	336 MCM AC	7.44Y	124.0	0.00	0.96	102.83	20	2231	541	97	0.02	0.0	0.893	0.002	0	0	0	212
PL.52509	PL.52508	ABC	336 MCM AC	7.44Y	124.0	0.05	1.01	102.83	20	2231	541	97	0.62	0.0	0.962	0.069	5	1	1	212
PL.49311	PL.52509	ABC	336 MCM AC	7.44Y	124.0	0.02	1.03	102.59	20	2226	538	97	0.29	0.0	0.996	0.033	87	21	4	211
PL.49312	PL.49311	ABC	336 MCM AC	7.44Y	123.9	0.05	1.08	98.57	19	2138	517	97	0.55	0.0	1.064	0.068	21	5	1	207
PL.49313	PL.49312	ABC	336 MCM AC	7.43Y	123.9	0.04	1.12	97.59	19	2116	511	97	0.51	0.0	1.128	0.064	0	0	1	206
PL.49314	PL.49313	A	6 A (CWC)	7.43Y	123.9	0.00	1.13	21.77	16	157	37	97	0.00	0.0	1.131	0.003	0	0	0	17
PD.7642	PL.49314	A	60QA	7.43Y	123.9	0.00	1.13	21.77	36	157	37	97	0.00	0.0	1.131	0.003	0	0	0	17
PL.60311	PD.7642	A	6 A (CWC)	7.43Y	123.8	0.09	1.22	21.77	16	157	37	97	0.11	0.1	1.228	0.097	4	1	1	17
PL.60798	PL.60311	A	#2 ACSR	7.43Y	123.8	0.00	1.22	4.13	2	30	7	97	0.00	0.0	1.298	0.070	30	7	2	2
PL.60313	PL.60311	A	#1/0 ACSR	7.43Y	123.8	0.00	1.22	0.02	0	0	0	100	0.00	0.0	1.232	0.003	0	0	0	1
PD.9094	PL.60313	A	15T	7.43Y	123.8	0.00	1.22	0.02	0	0	0	100	0.00	0.0	1.232	0.003	0	0	0	1
PL.60314	PD.9094	A	#1/0 ACSR	7.43Y	123.8	0.00	1.22	0.02	0	0	0	100	0.00	0.0	1.288	0.056	0	0	1	1
PL.60312	PL.60311	A	6 A (CWC)	7.42Y	123.7	0.05	1.27	17.03	12	123	29	97	0.04	0.0	1.303	0.075	25	6	3	13
PL.50011	PL.60312	A	6 A (CWC)	7.42Y	123.7	0.02	1.29	13.51	10	98	23	97	0.01	0.0	1.335	0.032	38	9	4	10
PL.50012	PL.50011	A	6 A (CWC)	7.42Y	123.7	0.04	1.32	8.23	6	59	14	97	0.01	0.0	1.437	0.102	9	2	1	6
PL.50019	PL.50012	A	6 A (CWC)	7.42Y	123.7	0.01	1.33	4.99	4	36	9	97	0.00	0.0	1.465	0.029	0	0	0	3
PL.50022	PL.50019	A	6 A (CWC)	7.42Y	123.7	0.01	1.33	4.99	4	36	9	97	0.00	0.0	1.493	0.028	11	3	1	3
PL.50023	PL.50022	A	6 A (CWC)	7.42Y	123.7	0.01	1.34	3.45	2	25	6	97	0.00	0.0	1.528	0.035	0	0	0	2
PL.50127	PL.50023	A	#2 ACSR	7.42Y	123.7	0.00	1.34	3.45	2	25	6	97	0.00	0.0	1.538	0.010	25	6	2	2
PL.50020	PL.50012	A	6 A (CWC)	7.42Y	123.7	0.00	1.32	2.03	1	15	3	98	0.00	0.0	1.451	0.014	0	0	0	2
PL.50021	PL.50020	A	6 A (CWC)	7.42Y	123.7	0.00	1.33	2.03	1	15	3	98	0.00	0.0	1.518	0.067	15	3	2	2
PL.60870	PL.49313	ABC	336 MCM AC	7.43Y	123.8	0.04	1.16	90.31	17	1958	472	97	0.42	0.0	1.190	0.062	16	4	1	188
PL.60871	PL.60870	ABC	336 MCM AC	7.43Y	123.8	0.05	1.21	89.56	17	1941	467	97	0.48	0.0	1.261	0.071	26	6	3	187
PL.50024	PL.60871	ABC	336 MCM AC	7.43Y	123.8	0.03	1.24	88.35	17	1914	460	97	0.30	0.0	1.306	0.045	0	0	0	184
PL.50229	PL.50024	ABC	336 MCM AC	7.42Y	123.7	0.03	1.26	59.97	12	1299	313	97	0.20	0.0	1.372	0.066	0	0	0	124
PL.50032	PL.50229	ABC	336 MCM AC	7.42Y	123.7	0.00	1.27	59.97	12	1299	312	97	0.02	0.0	1.378	0.005	0	0	0	124
PD.7720	PL.50032	ABC	100L	7.42Y	123.7	0.00	1.27	59.97	60	1299	312	97	0.00	0.0	1.378	0.005	0	0	0	124
PL.50033	PD.7720	ABC	336 MCM AC	7.42Y	123.7	0.02	1.29	59.97	12	1299	312	97	0.16	0.0	1.431	0.053	12	3	1	124

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Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50035	PL.50033	C	#1/0 ACSR	7.42Y	123.7	0.00	1.29	3.47	2	25	6	97	0.00	0.0	1.435	0.004	0	0	0	1
PD.7710	PL.50035	C	60QA	7.42Y	123.7	0.00	1.29	3.47	6	25	6	97	0.00	0.0	1.435	0.004	0	0	0	1
PL.50036	PD.7710	C	#1/0 ACSR	7.42Y	123.7	0.00	1.29	3.47	2	25	6	97	0.00	0.0	1.454	0.019	0	0	0	1
PL.63806	PL.50036	C	#1/0 ACSR	7.42Y	123.7	0.01	1.30	3.47	2	25	6	97	0.00	0.0	1.528	0.074	0	0	0	1
PL.63807	PL.63806	C	#1/0 ACSR	7.42Y	123.7	0.00	1.30	3.47	2	25	6	97	0.00	0.0	1.565	0.037	25	6	1	1
PL.50034	PL.50033	ABC	336 MCM AC	7.42Y	123.7	0.04	1.33	58.25	11	1261	303	97	0.27	0.0	1.524	0.094	0	0	0	122
PL.49984	PL.50034	C	#1/0 ACSR	7.42Y	123.7	0.00	1.33	2.45	1	18	4	98	0.00	0.0	1.527	0.002	0	0	0	2
PD.7643	PL.49984	C	60QA	7.42Y	123.7	0.00	1.33	2.45	4	18	4	98	0.00	0.0	1.527	0.002	0	0	0	2
PL.49985	PD.7643	C	#1/0 ACSR	7.42Y	123.7	0.00	1.33	2.45	1	18	4	98	0.00	0.0	1.582	0.055	4	1	1	2
PL.49986	PL.49985	C	#1/0 ACSR	7.42Y	123.7	0.00	1.33	1.83	1	13	3	97	0.00	0.0	1.607	0.025	13	3	1	1
PL.58495	PL.50034	A	#4 ACSR	7.42Y	123.7	0.00	1.33	10.70	8	77	18	97	0.00	0.0	1.527	0.003	0	0	0	8
PD.8695	PL.58495	A	40T	7.42Y	123.7	0.00	1.33	10.70	0	77	18	97	0.00	0.0	1.527	0.003	0	0	0	8
PL.58496	PD.8695	A	#4 ACSR	7.42Y	123.7	0.01	1.34	10.70	8	77	18	97	0.01	0.0	1.552	0.025	7	2	1	8
PL.58494	PL.58496	A	#4 ACSR	7.42Y	123.6	0.02	1.36	9.73	7	70	17	97	0.01	0.0	1.600	0.048	16	4	2	7
PL.49733	PL.58494	A	#4 ACSR	7.42Y	123.6	0.01	1.36	7.49	6	54	13	97	0.00	0.0	1.618	0.018	10	2	2	5
PL.49732	PL.49733	A	#4 ACSR	7.42Y	123.6	0.02	1.38	6.05	5	44	10	98	0.01	0.0	1.686	0.068	0	0	0	3
PL.49471	PL.49732	A	#4 ACSR	7.42Y	123.6	0.00	1.38	0.00	0	0	0	100	0.00	0.0	1.706	0.020	0	0	0	0
PL.50030	PL.49732	A	#4 ACSR	7.42Y	123.6	0.01	1.40	6.05	5	44	10	98	0.00	0.0	1.748	0.062	11	3	2	3
PL.50031	PL.50030	A	#4 ACSR	7.41Y	123.6	0.02	1.42	4.46	3	32	8	97	0.00	0.0	1.966	0.218	32	8	1	1
PL.50274	PL.50034	ABC	336 MCM AC	7.42Y	123.7	0.02	1.35	53.87	10	1166	280	97	0.14	0.0	1.583	0.059	0	0	0	112
PL.49987	PL.50274	ABC	336 MCM AC	7.42Y	123.6	0.03	1.37	38.16	7	826	199	97	0.12	0.0	1.677	0.094	0	0	0	74
PL.49638	PL.49987	ABC	336 MCM AC	7.42Y	123.6	0.02	1.40	38.16	7	826	198	97	0.10	0.0	1.755	0.078	0	0	0	74
PL.49639	PL.49638	C	#1/0 ACSR	7.42Y	123.6	0.00	1.40	3.11	1	22	5	98	0.00	0.0	1.759	0.003	0	0	0	1
PD.7628	PL.49639	C	60QA	7.42Y	123.6	0.00	1.40	3.11	5	22	5	98	0.00	0.0	1.759	0.003	0	0	0	1
PL.49472	PD.7628	C	#1/0 ACSR	7.42Y	123.6	0.00	1.40	3.11	1	22	5	98	0.00	0.0	1.773	0.014	0	0	0	1
PL.63668	PL.49472	C	1/0 AL URD	7.42Y	123.6	0.00	1.40	3.11	2	22	5	98	0.00	0.0	1.841	0.069	22	5	1	1
PL.49473	PL.49638	ABC	336 MCM AC	7.41Y	123.6	0.02	1.42	37.12	7	803	193	97	0.10	0.0	1.840	0.084	0	0	0	73
PL.49474	PL.49473	ABC	336 MCM AC	7.41Y	123.5	0.08	1.50	37.12	7	803	193	97	0.34	0.0	2.136	0.297	18	4	1	73
PL.51585	PL.49474	C	#1/0 ACSR	7.41Y	123.5	0.00	1.50	1.55	1	11	3	96	0.00	0.0	2.142	0.006	0	0	0	1
PD.7619	PL.51585	C	60QA	7.41Y	123.5	0.00	1.50	1.55	3	11	3	96	0.00	0.0	2.142	0.006	0	0	0	1
PL.51706	PD.7619	C	#1/0 ACSR	7.41Y	123.5	0.01	1.50	1.55	1	11	3	96	0.00	0.0	2.572	0.430	11	3	1	1

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Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50112	PL.49474	ABC	336 MCM AC	7.41Y	123.5	0.04	1.54	35.79	7	774	185	97	0.17	0.0	2.297	0.161	0	0	0	71
PL.50039	PL.50112	A	#4 ACSR	7.41Y	123.5	0.00	1.54	31.84	24	230	54	97	0.00	0.0	2.298	0.001	0	0	0	20
PD.7704	PL.50039	A	75QA	7.41Y	123.5	0.00	1.54	31.84	42	230	54	97	0.00	0.0	2.298	0.001	0	0	0	20
PL.63814	PD.7704	A	#4 ACSR	7.41Y	123.4	0.03	1.56	31.84	24	230	54	97	0.04	0.0	2.316	0.018	0	0	0	20
PL.63815	PL.63814	A	#4 ACSR	7.41Y	123.4	0.00	1.56	31.84	24	229	54	97	0.00	0.0	2.316	0.000	11	3	2	20
PL.63816	PL.63815	A	#4 ACSR	7.40Y	123.4	0.05	1.61	30.25	23	218	52	97	0.08	0.0	2.355	0.039	14	3	1	18
PL.50038	PL.63816	A	#4 ACSR	7.40Y	123.3	0.05	1.67	28.26	22	204	48	97	0.08	0.0	2.398	0.042	11	3	1	17
PL.50037	PL.50038	A	#4 ACSR	7.39Y	123.2	0.09	1.75	26.74	21	193	46	97	0.13	0.1	2.473	0.075	0	0	0	16
PL.50015	PL.50037	A	#2 ACSR	7.39Y	123.2	0.01	1.76	7.01	4	50	12	97	0.00	0.0	2.523	0.051	25	6	2	4
PL.49760	PL.50015	A	#1/0 ACSR	7.39Y	123.2	0.00	1.76	1.64	1	12	3	97	0.00	0.0	2.542	0.019	12	3	1	1
PL.50016	PL.50015	A	#2 ACSR	7.39Y	123.2	0.00	1.76	1.94	1	14	3	98	0.00	0.0	2.568	0.045	14	3	1	1
PL.50013	PL.50037	A	#4 ACSR	7.39Y	123.2	0.03	1.79	19.73	15	142	34	97	0.03	0.0	2.514	0.041	27	6	2	12
PL.50014	PL.50013	A	#4 ACSR	7.39Y	123.2	0.03	1.82	16.00	12	115	27	97	0.03	0.0	2.563	0.050	20	5	3	10
PL.49928	PL.50014	A	#4 ACSR	7.39Y	123.1	0.03	1.85	13.15	10	95	22	97	0.02	0.0	2.627	0.064	21	5	1	7
PL.49315	PL.49928	A	#4 ACSR	7.39Y	123.1	0.01	1.86	10.25	8	74	17	97	0.01	0.0	2.649	0.022	0	0	0	6
PL.49686	PL.49315	A	#4 ACSR	7.39Y	123.1	0.00	1.86	1.34	1	10	2	98	0.00	0.0	2.676	0.027	10	2	1	1
PL.50315	PL.49315	A	#4 ACSR	7.39Y	123.1	0.01	1.87	8.91	7	64	15	97	0.01	0.0	2.685	0.036	16	4	1	5
PL.50061	PL.50315	A	#4 ACSR	7.39Y	123.1	0.00	1.88	3.24	2	23	6	97	0.00	0.0	2.726	0.041	23	6	2	2
PL.50137	PL.50315	A	#4 ACSR	7.39Y	123.1	0.00	1.88	3.41	3	25	6	97	0.00	0.0	2.710	0.025	25	6	2	2
PL.50139	PL.50112	ABC	336 MCM AC	7.41Y	123.5	0.01	1.55	25.18	5	544	130	97	0.03	0.0	2.347	0.050	0	0	0	51
PL.50449	PL.50139	C	#4 ACSR	7.41Y	123.5	0.00	1.55	36.74	28	265	63	97	0.01	0.0	2.350	0.003	0	0	0	21
PD.7617	PL.50449	C	40T	7.41Y	123.5	0.00	1.55	36.74	0	265	63	97	0.00	0.0	2.350	0.003	0	0	0	21
PL.50450	PD.7617	C	#4 ACSR	7.41Y	123.4	0.01	1.56	36.74	28	265	63	97	0.02	0.0	2.358	0.008	12	3	1	21
PL.50451	PL.50450	C	#4 ACSR	7.40Y	123.4	0.05	1.62	35.12	27	253	60	97	0.10	0.0	2.394	0.036	14	3	1	20
PL.50452	PL.50451	C	#4 ACSR	7.40Y	123.3	0.09	1.71	33.20	26	239	57	97	0.16	0.1	2.456	0.062	14	3	1	19
PL.50453	PL.50452	C	#4 ACSR	7.39Y	123.2	0.12	1.83	31.19	24	225	53	97	0.20	0.1	2.546	0.089	12	3	1	18
PL.50456	PL.50453	C	#4 ACSR	7.39Y	123.2	0.02	1.85	14.14	11	102	24	97	0.02	0.0	2.589	0.043	15	4	1	8
PL.50457	PL.50456	C	#4 ACSR	7.39Y	123.1	0.06	1.91	12.04	9	87	20	97	0.03	0.0	2.705	0.116	14	3	1	7
PL.50458	PL.50457	C	#4 ACSR	7.38Y	123.1	0.02	1.93	10.07	8	72	17	97	0.01	0.0	2.759	0.054	7	2	1	6
PL.50459	PL.50458	C	#4 ACSR	7.38Y	123.0	0.03	1.96	9.14	7	66	16	97	0.01	0.0	2.853	0.093	30	7	2	5
PL.50460	PL.50459	C	#4 ACSR	7.38Y	123.0	0.01	1.97	4.90	4	35	8	97	0.00	0.0	2.914	0.061	23	5	1	3

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50461	PL.50460	C	#4 ACSR	7.38Y	123.0	0.00	1.97	1.72	1	12	3	97	0.00	0.0	2.944	0.031	8	2	1	2
PL.50462	PL.50461	C	#4 ACSR	7.38Y	123.0	0.00	1.97	0.62	0	4	1	97	0.00	0.0	2.973	0.028	4	1	1	1
PL.50454	PL.50453	C	#4 ACSR	7.39Y	123.1	0.04	1.86	15.39	12	111	26	97	0.03	0.0	2.609	0.063	36	8	3	9
PL.50455	PL.50454	C	#4 ACSR	7.39Y	123.1	0.01	1.87	6.57	5	47	11	97	0.00	0.0	2.657	0.048	47	11	4	4
PL.50095	PL.50454	C	#4 ACSR	7.39Y	123.1	0.00	1.86	3.87	3	28	7	97	0.00	0.0	2.634	0.025	28	7	2	2
PL.50040	PL.50139	A	#2 ACSR	7.41Y	123.5	0.00	1.55	1.63	1	12	3	97	0.00	0.0	2.350	0.003	0	0	0	1
PD.7618	PL.50040	A	25QA	7.41Y	123.5	0.00	1.55	1.63	7	12	3	97	0.00	0.0	2.350	0.003	0	0	0	1
PL.50448	PD.7618	A	#2 ACSR	7.41Y	123.5	0.00	1.55	1.63	1	12	3	97	0.00	0.0	2.465	0.115	12	3	1	1
PL.57743	PL.50139	ABC	336 MCM AC	7.41Y	123.4	0.01	1.56	12.38	2	268	65	97	0.01	0.0	2.461	0.113	0	0	0	29
PL.57745	PL.57743	B	#1/0 ACSR	7.41Y	123.4	0.00	1.56	0.00	0	0	0	100	0.00	0.0	2.521	0.060	0	0	0	0
PL.57744	PL.57743	ABC	336 MCM AC	7.40Y	123.4	0.03	1.59	12.38	2	268	64	97	0.04	0.0	2.804	0.343	0	0	0	29
PL.49678	PL.57744	ABC	336 MCM AC	7.40Y	123.4	0.00	1.59	12.38	2	267	64	97	0.01	0.0	2.855	0.051	6	1	2	29
PL.52248	PL.49678	B	#1/0 ACSR	7.40Y	123.4	0.00	1.59	36.32	16	261	63	97	0.00	0.0	2.856	0.001	0	0	0	27
PD.8010	PL.52248	B	75QA	7.40Y	123.4	0.00	1.59	36.32	48	261	63	97	0.00	0.0	2.856	0.001	0	0	0	27
PL.52249	PD.8010	B	#1/0 ACSR	7.40Y	123.3	0.09	1.68	36.32	16	261	63	97	0.15	0.1	2.960	0.104	0	0	0	27
PL.49791	PL.52249	B	#1/0 ACSR	7.39Y	123.2	0.07	1.75	36.32	16	261	63	97	0.13	0.0	3.050	0.090	0	0	0	27
PL.50134	PL.49791	B	#4 ACSR	7.39Y	123.2	0.00	1.75	2.20	2	16	4	97	0.00	0.0	3.105	0.055	16	4	1	1
PL.49792	PL.49791	B	#1/0 ACSR	7.39Y	123.2	0.04	1.79	34.12	15	245	59	97	0.06	0.0	3.099	0.049	0	0	0	26
PL.49793	PL.49792	B	#1/0 ACSR	7.39Y	123.2	0.05	1.84	34.12	15	245	59	97	0.08	0.0	3.163	0.064	0	0	0	26
PL.49310	PL.49793	B	#1/0 ACSR	7.38Y	123.0	0.11	1.95	34.01	15	244	59	97	0.18	0.1	3.311	0.147	0	0	0	24
PL.49641	PL.49310	B	#4 ACSR	7.38Y	122.9	0.10	2.05	34.01	26	244	58	97	0.18	0.1	3.382	0.072	21	5	2	24
PL.50111	PL.49641	B	#4 ACSR	7.38Y	122.9	0.00	2.05	0.05	0	0	0	100	0.00	0.0	3.486	0.104	0	0	1	1
PL.49642	PL.49641	B	#4 ACSR	7.35Y	122.5	0.46	2.52	31.02	24	223	53	97	0.78	0.3	3.720	0.338	0	0	0	21
PL.49493	PL.49642	B	6 A (CWC)	7.35Y	122.5	0.02	2.53	4.96	4	36	8	98	0.00	0.0	3.805	0.085	12	3	1	2
PL.49494	PL.49493	B	6 A (CWC)	7.35Y	122.5	0.01	2.54	3.26	2	23	6	97	0.00	0.0	3.875	0.070	23	6	1	1
PL.60875	PL.49642	B	#4 ACSR	7.35Y	122.5	0.03	2.54	26.06	20	186	44	97	0.04	0.0	3.745	0.025	10	2	2	19
PL.60876	PL.60875	B	#4 ACSR	7.35Y	122.4	0.01	2.56	24.61	19	176	42	97	0.02	0.0	3.759	0.013	0	0	0	17
PL.49490	PL.60876	B	6 A (CWC)	7.34Y	122.4	0.06	2.62	18.90	13	135	32	97	0.06	0.0	3.824	0.066	0	0	0	13
PL.49491	PL.49490	B	6 A (CWC)	7.34Y	122.3	0.10	2.72	18.89	13	135	32	97	0.10	0.1	3.949	0.125	14	3	1	12
PL.49492	PL.49491	B	6 A (CWC)	7.33Y	122.2	0.08	2.79	17.00	12	121	29	97	0.07	0.1	4.049	0.100	0	0	0	11
PL.49976	PL.49492	B	6 A (CWC)	7.33Y	122.2	0.01	2.80	2.72	2	19	5	97	0.00	0.0	4.202	0.153	19	5	1	1

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.49498	PL.49492	B	6 A (CWC)	7.32Y	122.1	0.16	2.95	14.28	10	102	24	97	0.12	0.1	4.289	0.240	0	0	0	10
PL.49499	PL.49498	B	6 A (CWC)	7.32Y	122.0	0.03	2.98	12.64	9	90	21	97	0.02	0.0	4.348	0.059	0	0	0	9
PL.50497	PL.49499	B	#4 ACSR	7.32Y	122.0	0.02	3.00	4.06	3	29	7	97	0.00	0.0	4.529	0.181	18	4	1	2
PL.50498	PL.50497	B	#4 ACSR	7.32Y	122.0	0.00	3.01	1.55	1	11	3	96	0.00	0.0	4.556	0.027	11	3	1	1
PL.49651	PL.49499	B	6 A (CWC)	7.32Y	121.9	0.10	3.08	8.58	6	61	14	97	0.05	0.1	4.601	0.254	0	0	1	7
PL.63961	PL.49651	B	6 A (CWC)	7.31Y	121.9	0.01	3.09	8.58	6	61	14	97	0.00	0.0	4.626	0.025	9	2	1	6
PL.63962	PL.63961	B	6 A (CWC)	7.31Y	121.9	0.02	3.11	7.32	5	52	12	97	0.01	0.0	4.682	0.056	0	0	0	5
PL.49652	PL.63962	B	6 A (CWC)	7.31Y	121.8	0.07	3.17	7.32	5	52	12	97	0.03	0.0	4.880	0.198	0	0	0	5
PL.49653	PL.49652	B	6 A (CWC)	7.31Y	121.8	0.03	3.21	7.32	5	52	12	97	0.01	0.0	4.990	0.111	5	1	2	5
PL.49654	PL.49653	B	6 A (CWC)	7.31Y	121.8	0.03	3.24	6.59	5	47	11	97	0.01	0.0	5.105	0.115	15	3	1	3
PL.49655	PL.49654	B	6 A (CWC)	7.30Y	121.7	0.03	3.26	2.75	2	20	5	97	0.00	0.0	5.318	0.212	0	0	0	1
PL.49656	PL.49655	B	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.00	0	0	0	100	0.00	0.0	5.345	0.027	0	0	0	0
PL.49691	PL.49655	B	#4 ACSR	7.30Y	121.7	0.00	3.27	2.75	2	20	5	97	0.00	0.0	5.353	0.035	20	5	1	1
PL.63906	PL.49654	B	#4 ACSR	7.31Y	121.8	0.00	3.24	1.79	1	13	3	97	0.00	0.0	5.105	0.000	0	0	0	1
PL.63907	PL.63906	B	#4 ACSR	7.31Y	121.8	0.01	3.25	1.79	1	13	3	97	0.00	0.0	5.230	0.125	0	0	0	1
PL.49657	PL.63907	B	#4 ACSR	7.30Y	121.7	0.00	3.25	1.79	1	13	3	97	0.00	0.0	5.342	0.111	13	3	1	1
PL.49500	PL.49498	B	6 A (CWC)	7.32Y	122.0	0.01	2.95	1.64	1	12	3	97	0.00	0.0	4.380	0.091	0	0	0	1
PL.49501	PL.49500	B	6 A (CWC)	7.32Y	122.0	0.00	2.96	1.64	1	12	3	97	0.00	0.0	4.477	0.097	12	3	1	1
PL.50496	PL.49501	B	6 A (CWC)	7.32Y	122.0	0.00	2.96	0.00	0	0	0	100	0.00	0.0	4.527	0.049	0	0	0	0
PL.50050	PL.49490	B	#2 ACSR	7.34Y	122.4	0.00	2.62	0.00	0	0	0	100	0.00	0.0	3.849	0.024	0	0	1	1
PL.49762	PL.60876	B	6 A (CWC)	7.34Y	122.4	0.04	2.60	5.71	4	41	10	97	0.01	0.0	3.899	0.140	0	0	0	4
PL.49495	PL.49762	B	6 A (CWC)	7.34Y	122.4	0.01	2.60	4.44	3	32	7	98	0.00	0.0	3.942	0.044	9	2	1	3
PL.49496	PL.49495	B	6 A (CWC)	7.34Y	122.4	0.00	2.61	3.12	2	22	5	98	0.00	0.0	3.978	0.035	19	4	1	2
PL.49497	PL.49496	B	6 A (CWC)	7.34Y	122.4	0.00	2.61	0.46	0	3	1	95	0.00	0.0	4.111	0.133	3	1	1	1
PL.50069	PL.49762	B	#4 ACSR	7.34Y	122.4	0.00	2.60	1.28	1	9	2	98	0.00	0.0	3.977	0.078	9	2	1	1
PL.49794	PL.49793	B	#4 ACSR	7.39Y	123.2	0.00	1.84	0.11	0	1	0	100	0.00	0.0	3.252	0.089	0	0	0	2
PL.49640	PL.49794	B	#4 ACSR	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	3.287	0.035	0	0	1	1
PL.49690	PL.49794	B	#4 ACSR	7.39Y	123.2	0.00	1.84	0.11	0	1	0	100	0.00	0.0	3.413	0.161	1	0	1	1
PL.50081	PL.52249	B	#4 ACSR	7.40Y	123.3	0.00	1.68	0.00	0	0	0	100	0.00	0.0	2.981	0.021	0	0	0	0
PL.52247	PL.49678	B	6 A (CWC)	7.40Y	123.4	0.00	1.59	0.00	0	0	0	100	0.00	0.0	2.856	0.001	0	0	0	0
PL.50313	PL.49473	C	#1/0 ACSR	7.41Y	123.6	0.00	1.42	0.00	0	0	0	100	0.00	0.0	1.842	0.003	0	0	0	0

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.7627	PL.50313	C	60QA	7.41Y	123.6	0.00	1.42	0.00	0	0	0	100	0.00	0.0	1.842	0.003	0	0	0	0
PL.50314	PD.7627	C	#1/0 ACSR	7.41Y	123.6	0.00	1.42	0.00	0	0	0	100	0.00	0.0	1.867	0.025	0	0	0	0
PL.49553	PL.50274	ABC	#1/0 ACSR	7.41Y	123.6	0.09	1.44	15.71	7	340	81	97	0.21	0.1	1.908	0.325	0	0	0	38
PL.50463	PL.49553	A	#4 ACSR	7.41Y	123.6	0.00	1.44	7.21	6	52	12	97	0.00	0.0	1.916	0.008	0	0	0	5
PD.7677	PL.50463	A	60QA	7.41Y	123.6	0.00	1.44	7.21	12	52	12	97	0.00	0.0	1.916	0.008	0	0	0	5
PL.49566	PD.7677	A	#4 ACSR	7.41Y	123.5	0.05	1.49	7.21	6	52	12	97	0.02	0.0	2.064	0.148	0	0	0	5
PL.49288	PL.49566	A	#4 ACSR	7.41Y	123.5	0.01	1.49	7.21	6	52	12	97	0.00	0.0	2.087	0.023	18	4	2	5
PL.49289	PL.49288	A	#4 ACSR	7.41Y	123.5	0.01	1.51	4.64	4	33	8	97	0.00	0.0	2.148	0.061	0	0	0	3
PL.49290	PL.49289	A	#4 ACSR	7.41Y	123.5	0.00	1.51	2.28	2	16	4	97	0.00	0.0	2.179	0.031	16	4	1	1
PL.50072	PL.49289	A	#4 ACSR	7.41Y	123.5	0.00	1.51	2.36	2	17	4	97	0.00	0.0	2.210	0.063	17	4	2	2
PL.60775	PL.49553	ABC	#1/0 ACSR	7.41Y	123.5	0.03	1.47	13.31	6	288	68	97	0.06	0.0	2.050	0.141	16	4	1	33
PL.60776	PL.60775	ABC	#1/0 ACSR	7.41Y	123.5	0.02	1.49	12.55	5	272	64	97	0.03	0.0	2.127	0.077	0	0	0	32
PL.60768	PL.60776	A	#2 ACSR	7.41Y	123.5	0.00	1.49	0.00	0	0	0	100	0.00	0.0	2.130	0.003	0	0	0	0
PD.9069	PL.60768	A	60QA	7.41Y	123.5	0.00	1.49	0.00	0	0	0	100	0.00	0.0	2.130	0.003	0	0	0	0
PL.60769	PD.9069	A	#2 ACSR	7.41Y	123.5	0.00	1.49	0.00	0	0	0	100	0.00	0.0	2.171	0.041	0	0	0	0
PL.60765	PL.60776	ABC	#1/0 ACSR	7.41Y	123.5	0.00	1.49	12.55	5	272	64	97	0.01	0.0	2.141	0.014	0	0	0	32
PL.60766	PL.60765	ABC	#1/0 ACSR	7.41Y	123.5	0.03	1.52	10.43	5	226	53	97	0.04	0.0	2.304	0.163	30	7	1	27
PL.60764	PL.60766	ABC	#1/0 ACSR	7.41Y	123.5	0.02	1.54	9.05	4	196	46	97	0.03	0.0	2.437	0.132	0	0	0	26
PL.50480	PL.60764	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.55	8.00	3	173	41	97	0.01	0.0	2.491	0.054	0	0	0	23
PL.47049	PL.50480	A	6 A (CWC)	7.41Y	123.5	0.00	1.55	0.92	1	7	2	96	0.00	0.0	2.493	0.002	0	0	0	1
PD.7620	PL.47049	A	40QA	7.41Y	123.5	0.00	1.55	0.92	2	7	2	96	0.00	0.0	2.493	0.002	0	0	0	1
PL.47050	PD.7620	A	6 A (CWC)	7.41Y	123.4	0.01	1.56	0.92	1	7	2	96	0.00	0.0	2.819	0.326	0	0	0	1
PL.49658	PL.47050	A	6 A (CWC)	7.41Y	123.4	0.00	1.57	0.92	1	7	2	96	0.00	0.0	2.947	0.128	7	2	1	1
PL.49317	PL.47050	A	#1/0 ACSR	7.41Y	123.4	0.00	1.56	0.00	0	0	0	100	0.00	0.0	2.891	0.072	0	0	0	0
PL.50494	PL.50480	ABC	#1/0 ACSR	7.41Y	123.5	0.00	1.55	7.69	3	166	39	97	0.00	0.0	2.492	0.001	0	0	0	22
PL.50495	PL.50494	ABC	#1/0 ACSR	7.41Y	123.4	0.01	1.56	7.69	3	166	39	97	0.01	0.0	2.535	0.043	0	0	0	22
PL.50481	PL.50495	ABC	#1/0 ACSR	7.41Y	123.4	0.00	1.56	6.79	3	147	35	97	0.00	0.0	2.564	0.029	14	3	1	20
PL.50482	PL.50481	ABC	#1/0 ACSR	7.41Y	123.4	0.01	1.57	6.12	3	132	31	97	0.01	0.0	2.641	0.077	0	0	0	19
PL.50486	PL.50482	ABC	#1/0 ACSR	7.41Y	123.4	0.01	1.57	5.92	3	128	30	97	0.01	0.0	2.711	0.070	5	1	1	18
PL.50487	PL.50486	ABC	#1/0 ACSR	7.41Y	123.4	0.01	1.58	5.67	2	123	29	97	0.00	0.0	2.766	0.055	6	1	1	17
PL.50488	PL.50487	ABC	#1/0 ACSR	7.40Y	123.4	0.01	1.59	5.38	2	116	28	97	0.00	0.0	2.830	0.064	0	0	0	16

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.49630	PL.50488	C	6 A (CWC)	7.40Y	123.4	0.00	1.59	1.79	1	13	3	97	0.00	0.0	2.875	0.044	0	0	0	2
PL.60872	PL.49630	C	6 A (CWC)	7.40Y	123.4	0.00	1.59	1.79	1	13	3	97	0.00	0.0	2.913	0.039	13	3	2	2
PL.50489	PL.50488	ABC	#1/0 ACSR	7.40Y	123.4	0.01	1.59	4.79	2	103	25	97	0.01	0.0	2.928	0.098	0	0	0	14
PL.49631	PL.50489	B	6 A (CWC)	7.40Y	123.4	0.00	1.59	1.10	1	8	2	97	0.00	0.0	2.978	0.050	8	2	1	2
PL.49677	PL.49631	B	6 A (CWC)	7.40Y	123.4	0.00	1.59	0.00	0	0	0	100	0.00	0.0	3.020	0.042	0	0	0	1
PL.50064	PL.49677	B	#4 ACSR	7.40Y	123.4	0.00	1.59	0.00	0	0	0	100	0.00	0.0	3.071	0.051	0	0	1	1
PL.52245	PL.49677	B	6 A (CWC)	7.40Y	123.4	0.00	1.59	0.00	0	0	0	100	0.00	0.0	3.230	0.209	0	0	0	0
PL.52246	PL.52245	B	6 A (CWC)	7.40Y	123.4	0.00	1.59	0.00	0	0	0	100	0.00	0.0	3.238	0.008	0	0	0	0
PL.49675	PL.50489	C	6 A (CWC)	7.40Y	123.4	0.00	1.60	13.26	9	96	23	97	0.00	0.0	2.934	0.006	0	0	0	12
PD.7697	PL.49675	C	40T	7.40Y	123.4	0.00	1.60	13.26	0	96	23	97	0.00	0.0	2.934	0.006	0	0	0	12
PL.49676	PD.7697	C	6 A (CWC)	7.40Y	123.4	0.05	1.64	13.26	9	96	23	97	0.03	0.0	3.013	0.079	0	0	0	12
PL.49632	PL.49676	C	#4 ACSR	7.40Y	123.4	0.00	1.64	2.30	2	17	4	97	0.00	0.0	3.014	0.001	0	0	0	2
PD.7673	PL.49632	C	25T	7.40Y	123.4	0.00	1.64	2.30	0	17	4	97	0.00	0.0	3.014	0.001	0	0	0	2
PL.49633	PD.7673	C	#4 ACSR	7.40Y	123.4	0.00	1.65	2.30	2	17	4	97	0.00	0.0	3.059	0.045	17	4	2	2
PL.49665	PL.49676	C	6 A (CWC)	7.40Y	123.3	0.05	1.69	9.78	7	70	17	97	0.02	0.0	3.117	0.104	0	0	0	9
PL.63818	PL.49665	C	6 A (CWC)	7.40Y	123.3	0.02	1.71	9.78	7	70	17	97	0.01	0.0	3.170	0.053	0	0	1	9
PL.63819	PL.63818	C	6 A (CWC)	7.39Y	123.2	0.07	1.78	9.78	7	70	17	97	0.04	0.1	3.327	0.157	0	0	0	8
PL.63820	PL.63819	C	6 A (CWC)	7.39Y	123.2	0.02	1.80	8.32	6	60	14	97	0.01	0.0	3.385	0.058	11	3	1	7
PL.49666	PL.63820	C	6 A (CWC)	7.39Y	123.2	0.02	1.82	6.73	5	48	11	97	0.01	0.0	3.450	0.065	11	3	1	6
PL.49667	PL.49666	C	6 A (CWC)	7.39Y	123.1	0.06	1.88	5.23	4	38	9	97	0.02	0.0	3.690	0.240	0	0	0	5
PL.49671	PL.49667	C	6 A (CWC)	7.39Y	123.1	0.01	1.89	2.80	2	20	5	97	0.00	0.0	3.761	0.071	0	0	0	3
PL.49672	PL.49671	C	6 A (CWC)	7.39Y	123.1	0.01	1.89	2.80	2	20	5	97	0.00	0.0	3.856	0.095	14	3	1	3
PL.49673	PL.49672	C	6 A (CWC)	7.39Y	123.1	0.00	1.90	0.84	1	6	1	99	0.00	0.0	3.911	0.055	6	1	2	2
PL.49674	PL.49673	C	6 A (CWC)	7.39Y	123.1	0.00	1.90	0.00	0	0	0	100	0.00	0.0	4.041	0.130	0	0	0	0
PL.50321	PL.49667	C	6 A (CWC)	7.39Y	123.1	0.01	1.89	2.42	2	17	4	97	0.00	0.0	3.818	0.128	0	0	0	2
PL.49669	PL.50321	C	6 A (CWC)	7.39Y	123.1	0.00	1.89	2.42	2	17	4	97	0.00	0.0	3.819	0.000	4	1	1	2
PL.49670	PL.49669	C	6 A (CWC)	7.39Y	123.1	0.00	1.89	1.84	1	13	3	97	0.00	0.0	3.875	0.056	13	3	1	1
PL.49668	PL.49670	C	6 A (CWC)	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	3.980	0.105	0	0	0	0
PL.63821	PL.63819	C	#1/0 ACSR	7.39Y	123.2	0.00	1.78	1.46	1	10	2	98	0.00	0.0	3.331	0.004	0	0	0	1
PD.9489	PL.63821	C	20T	7.39Y	123.2	0.00	1.78	1.46	0	10	2	98	0.00	0.0	3.331	0.004	0	0	0	1
PL.63822	PD.9489	C	#1/0 ACSR	7.39Y	123.2	0.00	1.78	1.46	1	10	2	98	0.00	0.0	3.375	0.045	0	0	0	1

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.63823	PL.63822	C	#1/0 ACSR	7.39Y	123.2	0.00	1.79	1.46	1	10	2	98	0.00	0.0	3.419	0.043	10	2	1	1
PL.63955	PL.49676	C	#1/0 ACSR	7.40Y	123.4	0.00	1.64	1.18	1	9	2	98	0.00	0.0	3.017	0.003	0	0	0	1
PD.9490	PL.63955	C	25T	7.40Y	123.4	0.00	1.64	1.18	0	9	2	98	0.00	0.0	3.017	0.003	0	0	0	1
PL.63905	PD.9490	C	#1/0 ACSR	7.40Y	123.4	0.00	1.65	1.18	1	9	2	98	0.00	0.0	3.056	0.039	0	0	0	1
PL.63904	PL.63905	C	#1/0 ACSR	7.40Y	123.4	0.00	1.65	1.18	1	9	2	98	0.00	0.0	3.096	0.040	9	2	1	1
PL.50464	PL.50482	A	6 A (CWC)	7.41Y	123.4	0.00	1.57	0.61	0	4	1	97	0.00	0.0	2.644	0.003	0	0	0	1
PD.7638	PL.50464	A	25QA	7.41Y	123.4	0.00	1.57	0.61	2	4	1	97	0.00	0.0	2.644	0.003	0	0	0	1
PL.50465	PD.7638	A	6 A (CWC)	7.41Y	123.4	0.00	1.57	0.61	0	4	1	97	0.00	0.0	2.704	0.059	0	0	0	1
PL.50466	PL.50465	A	6 A (CWC)	7.41Y	123.4	0.00	1.57	0.61	0	4	1	97	0.00	0.0	2.781	0.077	4	1	1	1
PL.59609	PL.50495	B	#1/0 ACSR	7.41Y	123.4	0.00	1.56	2.72	1	20	5	97	0.00	0.0	2.568	0.032	20	5	2	2
PL.50492	PL.60764	ABC	#4 ACSR	7.41Y	123.5	0.00	1.54	0.58	0	13	3	97	0.00	0.0	2.439	0.002	0	0	0	2
PD.7633	PL.50492	C	60QA	7.41Y	123.5	0.00	1.54	1.75	3	13	3	97	0.00	0.0	2.439	0.002	0	0	0	2
PL.50493	PD.7633	C	#4 ACSR	7.41Y	123.5	0.00	1.55	1.75	1	13	3	97	0.00	0.0	2.504	0.066	0	0	1	2
PL.63664	PL.50493	C	#1/0 ACSR	7.41Y	123.5	0.00	1.55	1.70	1	12	3	97	0.00	0.0	2.559	0.055	12	3	1	1
PL.50490	PL.60764	ABC	#4 ACSR	7.41Y	123.5	0.00	1.54	0.47	0	10	2	98	0.00	0.0	2.439	0.002	0	0	0	1
PD.7670	PL.50490	A	60QA	7.41Y	123.5	0.00	1.54	1.42	2	10	2	98	0.00	0.0	2.439	0.002	0	0	0	1
PL.50491	PD.7670	A	#4 ACSR	7.41Y	123.5	0.00	1.54	1.42	1	10	2	98	0.00	0.0	2.495	0.056	10	2	1	1
PL.60767	PL.60765	C	#1/0 ACSR	7.41Y	123.5	0.00	1.49	6.37	3	46	11	97	0.00	0.0	2.144	0.003	0	0	0	5
PD.9068	PL.60767	C	15T	7.41Y	123.5	0.00	1.49	6.37	0	46	11	97	0.00	0.0	2.144	0.003	0	0	0	5
PL.60770	PD.9068	C	#1/0 ACSR	7.41Y	123.5	0.01	1.50	6.37	3	46	11	97	0.00	0.0	2.193	0.048	23	5	2	5
PL.60326	PL.60770	C	#1/0 ACSR	7.41Y	123.5	0.00	1.50	3.20	1	23	5	98	0.00	0.0	2.228	0.036	0	0	0	3
PL.60328	PL.60326	C	#1/0 ACSR	7.41Y	123.5	0.00	1.50	1.76	1	13	3	97	0.00	0.0	2.280	0.052	13	3	1	1
PL.60327	PL.60326	C	#1/0 ACSR	7.41Y	123.5	0.00	1.50	1.44	1	10	2	98	0.00	0.0	2.284	0.055	10	2	2	2
PL.50026	PL.50024	A	#4 ACSR	7.43Y	123.8	0.00	1.24	4.45	3	32	8	97	0.00	0.0	1.309	0.003	0	0	0	2
PD.7675	PL.50026	A	60QA	7.43Y	123.8	0.00	1.24	4.45	7	32	8	97	0.00	0.0	1.309	0.003	0	0	0	2
PL.50027	PD.7675	A	#4 ACSR	7.43Y	123.8	0.00	1.24	4.45	3	32	8	97	0.00	0.0	1.327	0.018	20	5	1	2
PL.50025	PL.50027	A	#4 ACSR	7.43Y	123.8	0.00	1.24	1.64	1	12	3	97	0.00	0.0	1.370	0.043	12	3	1	1
PL.50028	PL.50024	ABC	336 MCM AC	7.43Y	123.8	0.01	1.25	26.90	5	583	139	97	0.05	0.0	1.384	0.078	11	3	1	58
PL.50029	PL.50028	ABC	336 MCM AC	7.42Y	123.7	0.03	1.28	26.40	5	572	136	97	0.10	0.0	1.559	0.174	0	0	0	57
PL.59597	PL.50029	ABC	336 MCM AC	7.42Y	123.7	0.00	1.28	26.40	5	572	136	97	0.00	0.0	1.561	0.002	0	0	0	57
PD.8798	PL.59597	ABC	70L	7.42Y	123.7	0.00	1.28	26.40	38	572	136	97	0.00	0.0	1.561	0.002	0	0	0	57

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.59720	PD.8798	ABC	336 MCM AC	7.42Y	123.7	0.00	1.28	26.40	5	572	136	97	0.00	0.0	1.564	0.003	0	0	0	57
PL.59719	PL.59720	ABC	336 MCM AC	7.42Y	123.7	0.02	1.30	22.10	4	479	114	97	0.05	0.0	1.675	0.111	0	0	0	44
PL.49983	PL.59719	ABC	336 MCM AC	7.42Y	123.7	0.00	1.30	22.10	4	479	114	97	0.00	0.0	1.675	0.001	0	0	0	44
PL.49593	PL.49983	ABC	336 MCM AC	7.42Y	123.7	0.01	1.31	22.10	4	479	114	97	0.02	0.0	1.728	0.053	21	5	2	44
PL.50467	PL.49593	ABC	336 MCM AC	7.42Y	123.7	0.01	1.32	21.08	4	457	108	97	0.02	0.0	1.786	0.057	0	0	0	41
PL.60877	PL.50467	ABC	336 MCM AC	7.42Y	123.7	0.01	1.33	20.77	4	450	107	97	0.02	0.0	1.842	0.056	25	6	3	40
PL.60879	PL.60877	ABC	336 MCM AC	7.42Y	123.7	0.01	1.34	19.27	4	417	99	97	0.03	0.0	1.936	0.094	24	6	2	36
PL.50469	PL.60879	ABC	336 MCM AC	7.42Y	123.7	0.01	1.34	18.18	4	394	93	97	0.01	0.0	1.976	0.040	4	1	1	34
PL.50470	PL.50469	ABC	336 MCM AC	7.42Y	123.7	0.00	1.35	17.99	3	390	92	97	0.00	0.0	1.991	0.015	0	0	0	33
PL.50471	PL.50470	ABC	336 MCM AC	7.42Y	123.7	0.00	1.35	16.88	3	366	87	97	0.01	0.0	2.024	0.033	21	5	2	32
PL.50472	PL.50471	ABC	336 MCM AC	7.42Y	123.6	0.01	1.36	15.92	3	345	82	97	0.02	0.0	2.110	0.086	25	6	1	30
PL.50342	PL.50472	ABC	336 MCM AC	7.42Y	123.6	0.01	1.37	14.78	3	320	76	97	0.02	0.0	2.221	0.111	0	0	1	29
PL.50477	PL.50342	ABC	336 MCM AC	7.42Y	123.6	0.01	1.38	13.37	3	290	69	97	0.01	0.0	2.303	0.082	9	2	1	26
PL.60321	PL.50477	ABC	336 MCM AC	7.42Y	123.6	0.02	1.39	12.75	2	276	66	97	0.02	0.0	2.478	0.175	0	0	0	24
PL.60315	PL.60321	ABC	336 MCM AC	7.42Y	123.6	0.01	1.40	10.86	2	235	56	97	0.01	0.0	2.604	0.127	22	5	2	21
PL.60318	PL.60315	ABC	336 MCM AC	7.42Y	123.6	0.01	1.41	9.30	2	201	48	97	0.01	0.0	2.720	0.115	0	0	0	16
PL.60324	PL.60318	ABC	336 MCM AC	7.42Y	123.6	0.00	1.41	9.30	2	201	48	97	0.00	0.0	2.761	0.042	0	0	0	16
PL.50227	PL.60324	ABC	336 MCM AC	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	2.807	0.046	0	0	0	0
PD.7185-B	PL.50227	ABC	Open	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	2.807	0.046	0	0	0	0
PL.49988	PL.60324	C	#4 ACSR	7.41Y	123.6	0.01	1.42	27.90	21	201	48	97	0.01	0.0	2.766	0.004	0	0	0	16
PD.7611	PL.49988	C	50QA	7.41Y	123.6	0.00	1.42	27.90	56	201	48	97	0.00	0.0	2.766	0.004	0	0	0	16
PL.49989	PD.7611	C	#4 ACSR	7.41Y	123.5	0.06	1.48	27.90	21	201	48	97	0.09	0.0	2.816	0.051	26	6	3	16
PL.49990	PL.49989	C	#4 ACSR	7.41Y	123.4	0.07	1.55	24.30	19	175	42	97	0.10	0.1	2.887	0.070	8	2	1	13
PL.50232	PL.49990	C	#4 ACSR	7.40Y	123.4	0.04	1.59	23.18	18	167	40	97	0.05	0.0	2.934	0.048	36	8	2	12
PL.63808	PL.50232	C	#4 ACSR	7.40Y	123.3	0.08	1.68	18.22	14	131	31	97	0.08	0.1	3.035	0.101	0	0	0	10
PL.63809	PL.63808	C	#4 ACSR	7.40Y	123.3	0.00	1.68	18.22	14	131	31	97	0.00	0.0	3.035	0.000	24	6	1	10
PL.49475	PL.63809	C	#4 ACSR	7.40Y	123.3	0.02	1.69	14.82	11	107	25	97	0.01	0.0	3.064	0.028	14	3	1	9
PL.49476	PL.49475	C	#4 ACSR	7.40Y	123.3	0.01	1.70	12.82	10	92	22	97	0.01	0.0	3.084	0.020	24	6	2	8
PL.50304	PL.49476	C	#4 ACSR	7.40Y	123.3	0.01	1.71	4.05	3	29	7	97	0.00	0.0	3.150	0.066	13	3	1	3
PL.49769	PL.50304	C	#4 ACSR	7.40Y	123.3	0.00	1.71	2.28	2	16	4	97	0.00	0.0	3.179	0.029	8	2	1	2
PL.49770	PL.49769	C	#4 ACSR	7.40Y	123.3	0.00	1.71	1.14	1	8	2	97	0.00	0.0	3.201	0.022	8	2	1	1

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.49477	PL.49476	C	#4 ACSR	7.40Y	123.3	0.01	1.71	5.42	4	39	9	97	0.00	0.0	3.110	0.026	9	2	1	3
PL.50303	PL.49477	C	#4 ACSR	7.40Y	123.3	0.00	1.71	4.16	3	30	7	97	0.00	0.0	3.153	0.043	30	7	2	2
PL.50108	PL.63809	C	#2 ACSR	7.40Y	123.3	0.00	1.68	0.00	0	0	0	100	0.00	0.0	3.070	0.035	0	0	0	0
PL.60325	PL.60318	A	6 A (CWC)	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	2.722	0.002	0	0	0	0
PD.7696	PL.60325	A	50QA	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	2.722	0.002	0	0	0	0
PL.50122	PD.7696	A	6 A (CWC)	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	2.774	0.052	0	0	0	0
PL.60316	PL.60315	C	#4 ACSR	7.42Y	123.6	0.00	1.40	1.60	1	12	3	97	0.00	0.0	2.608	0.003	0	0	0	3
PD.9095	PL.60316	C	30T	7.42Y	123.6	0.00	1.40	1.60	0	12	3	97	0.00	0.0	2.608	0.003	0	0	0	3
PL.60322	PD.9095	C	#4 ACSR	7.42Y	123.6	0.01	1.41	1.60	1	12	3	97	0.00	0.0	2.706	0.098	1	0	2	3
PL.50483	PL.60322	C	#4 ACSR	7.42Y	123.6	0.00	1.41	1.48	1	11	3	96	0.00	0.0	2.832	0.127	11	3	1	1
PL.60317	PL.60315	A	#4 ACSR	7.42Y	123.6	0.00	1.40	0.00	0	0	0	100	0.00	0.0	2.606	0.001	0	0	0	0
PD.9096	PL.60317	A	50QA	7.42Y	123.6	0.00	1.40	0.00	0	0	0	100	0.00	0.0	2.606	0.001	0	0	0	0
PL.60323	PD.9096	A	#4 ACSR	7.42Y	123.6	0.00	1.40	0.00	0	0	0	100	0.00	0.0	2.666	0.060	0	0	0	0
PL.60319	PL.60321	A	#4 ACSR	7.42Y	123.6	0.00	1.40	2.04	2	15	3	98	0.00	0.0	2.546	0.068	15	3	1	1
PL.60320	PL.60321	A	6 A (CWC)	7.42Y	123.6	0.00	1.39	3.64	3	26	6	97	0.00	0.0	2.482	0.004	0	0	0	2
PD.7703	PL.60320	A	50QA	7.42Y	123.6	0.00	1.39	3.64	7	26	6	97	0.00	0.0	2.482	0.004	0	0	0	2
PL.50484	PD.7703	A	6 A (CWC)	7.42Y	123.6	0.01	1.40	3.64	3	26	6	97	0.00	0.0	2.543	0.061	0	0	0	2
PL.49771	PL.50484	A	6 A (CWC)	7.42Y	123.6	0.00	1.40	2.53	2	18	4	98	0.00	0.0	2.554	0.011	18	4	1	1
PL.50485	PL.50484	A	6 A (CWC)	7.42Y	123.6	0.00	1.40	1.10	1	8	2	97	0.00	0.0	2.582	0.039	8	2	1	1
PL.50478	PL.50477	A	6 A (CWC)	7.42Y	123.6	0.00	1.38	0.63	0	5	1	98	0.00	0.0	2.304	0.001	0	0	0	1
PD.7186	PL.50478	A	50QA	7.42Y	123.6	0.00	1.38	0.63	1	5	1	98	0.00	0.0	2.304	0.001	0	0	0	1
PL.50479	PD.7186	A	6 A (CWC)	7.42Y	123.6	0.00	1.38	0.63	0	5	1	98	0.00	0.0	2.368	0.064	5	1	1	1
PL.50475	PL.50342	C	6 A (CWC)	7.42Y	123.6	0.00	1.37	4.23	3	31	7	98	0.00	0.0	2.233	0.012	0	0	0	2
PD.7654	PL.50475	C	50QA	7.42Y	123.6	0.00	1.37	4.23	8	31	7	98	0.00	0.0	2.233	0.012	0	0	0	2
PL.50476	PD.7654	C	6 A (CWC)	7.42Y	123.6	0.02	1.39	4.23	3	31	7	98	0.00	0.0	2.366	0.133	19	5	1	2
PL.60883	PL.50476	C	6 A (CWC)	7.42Y	123.6	0.01	1.40	1.56	1	11	3	96	0.00	0.0	2.527	0.161	0	0	0	1
PL.60884	PL.60883	C	#4 ACSR	7.42Y	123.6	0.00	1.40	1.56	1	11	3	96	0.00	0.0	2.569	0.043	11	3	1	1
PL.60885	PL.60883	C	6 A (CWC)	7.42Y	123.6	0.00	1.40	0.00	0	0	0	100	0.00	0.0	2.530	0.003	0	0	0	0
PL.50473	PL.50470	C	#2 ACSR	7.42Y	123.7	0.00	1.35	3.33	2	24	6	97	0.00	0.0	1.994	0.002	0	0	0	1
PD.7685	PL.50473	C	40QA	7.42Y	123.7	0.00	1.35	3.33	8	24	6	97	0.00	0.0	1.994	0.002	0	0	0	1
PL.50474	PD.7685	C	#2 ACSR	7.42Y	123.7	0.00	1.35	3.33	2	24	6	97	0.00	0.0	2.023	0.030	24	6	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: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.60878	PL.60877	B	#2 ACSR	7.42Y	123.7	0.00	1.33	0.97	1	7	2	96	0.00	0.0	1.845	0.003	0	0	0	1
PD.7612	PL.60878	B	40QA	7.42Y	123.7	0.00	1.33	0.97	2	7	2	96	0.00	0.0	1.845	0.003	0	0	0	1
PL.50468	PD.7612	B	#2 ACSR	7.42Y	123.7	0.00	1.33	0.97	1	7	2	96	0.00	0.0	1.870	0.026	7	2	1	1
PL.50126	PL.50467	A	6 A (CWC)	7.42Y	123.7	0.00	1.32	0.93	1	7	2	96	0.00	0.0	1.806	0.020	7	2	1	1
PL.50230	PL.49593	A	6 A (CWC)	7.42Y	123.7	0.00	1.31	0.15	0	1	0	100	0.00	0.0	1.790	0.061	1	0	1	1
PL.57702	PL.49983	ABC	336 MCM AC	7.42Y	123.7	0.00	1.30	0.00	0	0	0	100	0.00	0.0	1.677	0.001	0	0	0	0
PD.8382	PL.57702	ABC	50QA	7.42Y	123.7	0.00	1.30	0.00	0	0	0	100	0.00	0.0	1.677	0.001	0	0	0	0
PL.57703	PD.8382	ABC	336 MCM AC	7.42Y	123.7	0.00	1.30	0.00	0	0	0	100	0.00	0.0	1.729	0.052	0	0	0	0
PL.57704	PL.57703	ABC	336 MCM AC	7.42Y	123.7	0.00	1.30	0.00	0	0	0	100	0.00	0.0	1.741	0.012	0	0	0	0
PL.59718	PL.59720	C	6 A (CWC)	7.42Y	123.6	0.10	1.38	12.91	9	93	22	97	0.07	0.1	1.731	0.167	0	0	1	13
PL.52256	PL.59718	C	6 A (CWC)	7.42Y	123.6	0.00	1.38	11.47	8	83	20	97	0.00	0.0	1.732	0.002	0	0	0	11
PD.7965	PL.52256	C	50L	7.42Y	123.6	0.00	1.38	11.47	23	83	20	97	0.00	0.0	1.732	0.002	0	0	0	11
PL.52257	PD.7965	C	6 A (CWC)	7.42Y	123.6	0.03	1.41	11.47	8	83	20	97	0.02	0.0	1.795	0.062	0	0	0	11
PL.50223	PL.52257	C	6 A (CWC)	7.41Y	123.5	0.09	1.50	11.47	8	83	20	97	0.05	0.1	1.969	0.174	1	0	1	11
PL.49808	PL.50223	C	6 A (CWC)	7.41Y	123.5	0.00	1.51	1.44	1	10	2	98	0.00	0.0	2.053	0.084	10	2	1	1
PL.49467	PL.50223	C	6 A (CWC)	7.41Y	123.5	0.04	1.55	9.87	7	71	17	97	0.02	0.0	2.068	0.099	0	0	0	9
PL.49468	PL.49467	C	6 A (CWC)	7.40Y	123.4	0.09	1.64	8.84	6	64	15	97	0.04	0.1	2.291	0.224	0	0	0	8
PL.49776	PL.49468	C	6 A (CWC)	7.40Y	123.4	0.00	1.64	0.02	0	0	0	100	0.00	0.0	2.431	0.140	0	0	1	1
PL.49765	PL.49468	C	6 A (CWC)	7.40Y	123.3	0.04	1.68	8.83	6	64	15	97	0.02	0.0	2.399	0.108	0	0	0	7
PL.49766	PL.49765	C	6 A (CWC)	7.40Y	123.3	0.03	1.71	7.18	5	52	12	97	0.01	0.0	2.493	0.094	0	0	0	5
PL.50275	PL.49766	C	6 A (CWC)	7.40Y	123.3	0.00	1.71	0.00	0	0	0	100	0.00	0.0	2.610	0.117	0	0	0	0
PL.49767	PL.49766	C	6 A (CWC)	7.40Y	123.3	0.02	1.73	7.18	5	52	12	97	0.01	0.0	2.576	0.083	12	3	1	5
PL.49768	PL.49767	C	6 A (CWC)	7.39Y	123.2	0.03	1.76	5.52	4	40	9	98	0.01	0.0	2.680	0.104	0	0	0	4
PL.49564	PL.49768	C	6 A (CWC)	7.39Y	123.2	0.01	1.78	5.52	4	40	9	98	0.00	0.0	2.764	0.084	24	6	3	4
PL.49565	PL.49564	C	6 A (CWC)	7.39Y	123.2	0.00	1.78	2.24	2	16	4	97	0.00	0.0	2.802	0.038	16	4	1	1
PL.49724	PL.49564	C	#2 ACSR	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	2.828	0.064	0	0	0	0
PL.49683	PL.49765	C	#4 ACSR	7.40Y	123.3	0.01	1.69	1.65	1	12	3	97	0.00	0.0	2.600	0.201	12	3	2	2
PL.50062	PL.49467	C	#4 ACSR	7.41Y	123.5	0.00	1.55	1.03	1	7	2	96	0.00	0.0	2.146	0.078	7	2	1	1
PL.50276	PL.59718	C	6 A (CWC)	7.42Y	123.6	0.00	1.38	1.44	1	10	2	98	0.00	0.0	1.820	0.089	10	2	1	1
PL.49758	PL.49313	C	6 A (CWC)	7.43Y	123.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	1.133	0.005	0	0	0	0
PD.7694	PL.49758	C	60QA	7.43Y	123.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	1.133	0.005	0	0	0	0

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.49759	PD.7694	C	6 A (CWC)	7.43Y	123.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	1.167	0.034	0	0	0	0
PL.49927	PL.49759	C	6 A (CWC)	7.43Y	123.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	1.198	0.031	0	0	0	0
CP.74	PL.52508	ABC	Cap (300)	7.44Y	124.0	0.00	0.96	0.00	0	0	0	100	0.00	0.0	0.893	0.031	0	0	0	0
PL.49721	PL.50103	C	#4 ACSR	7.44Y	124.0	0.00	0.95	1.40	1	9	5	87	0.00	0.0	0.895	0.003	0	0	0	1
PD.7672	PL.49721	C	60QA	7.44Y	124.0	0.00	0.95	1.40	2	9	5	87	0.00	0.0	0.895	0.003	0	0	0	1
PL.49809	PD.7672	C	#4 ACSR	7.44Y	124.0	0.00	0.96	1.40	1	9	5	87	0.00	0.0	0.911	0.016	9	5	1	1
PL.50077	PL.50103	C	#4 ACSR	7.44Y	124.0	0.00	0.96	3.92	3	28	7	97	0.00	0.0	0.936	0.044	28	7	2	2
PL.50008	PL.50004	C	#4 ACSR	7.45Y	124.1	0.00	0.90	1.65	1	12	3	97	0.00	0.0	0.821	0.004	0	0	0	1
PD.7674	PL.50008	C	60QA	7.45Y	124.1	0.00	0.90	1.65	3	12	3	97	0.00	0.0	0.821	0.004	0	0	0	1
PL.50009	PD.7674	C	#4 ACSR	7.45Y	124.1	0.00	0.90	1.65	1	12	3	97	0.00	0.0	0.852	0.031	12	3	1	1
PL.50010	PL.50004	C	#2 ACSR	7.45Y	124.1	0.00	0.90	1.49	1	11	3	96	0.00	0.0	0.819	0.002	0	0	0	1
PD.7702	PL.50010	C	65QA	7.45Y	124.1	0.00	0.90	1.49	0	11	3	96	0.00	0.0	0.819	0.002	0	0	0	1
PL.50017	PD.7702	C	#2 ACSR	7.45Y	124.1	0.00	0.90	1.49	1	11	3	96	0.00	0.0	0.837	0.018	0	0	0	1
PL.50018	PL.50017	C	#2 ACSR	7.45Y	124.1	0.00	0.90	1.49	1	11	3	96	0.00	0.0	0.864	0.027	11	3	1	1
PL.50428	PL.49542	ABC	#1/0 ACSR	7.45Y	124.2	0.01	0.83	15.88	7	345	82	97	0.03	0.0	0.750	0.043	0	0	0	27
PL.49744	PL.50428	ABC	#1/0 ACSR	7.45Y	124.1	0.03	0.85	15.88	7	345	82	97	0.06	0.0	0.846	0.095	0	0	0	27
PL.50431	PL.49744	C	#1/0 ACSR	7.45Y	124.1	0.00	0.86	5.91	3	43	10	97	0.00	0.0	0.848	0.003	0	0	0	4
PD.7626	PL.50431	C	25QA	7.45Y	124.1	0.00	0.86	5.91	24	43	10	97	0.00	0.0	0.848	0.003	0	0	0	4
PL.50432	PD.7626	C	#1/0 ACSR	7.45Y	124.1	0.00	0.86	5.91	3	43	10	97	0.00	0.0	0.863	0.015	43	10	4	4
PL.49745	PL.49744	ABC	#1/0 ACSR	7.45Y	124.1	0.00	0.86	13.91	6	302	72	97	0.01	0.0	0.863	0.017	0	0	0	23
PL.49750	PL.49745	ABC	#1/0 ACSR	7.45Y	124.1	0.01	0.87	13.91	6	302	72	97	0.03	0.0	0.918	0.055	0	0	0	23
PL.50323	PL.49750	ABC	#1/0 ACSR	7.45Y	124.1	0.03	0.91	13.91	6	302	72	97	0.07	0.0	1.056	0.137	0	0	0	23
PL.50437	PL.50323	ABC	#1/0 ACSR	7.45Y	124.1	0.01	0.91	7.68	3	167	40	97	0.01	0.0	1.103	0.047	0	0	0	11
PL.50438	PL.50437	ABC	#1/0 ACSR	7.44Y	124.1	0.01	0.92	7.68	3	167	39	97	0.01	0.0	1.146	0.043	25	6	2	11
PL.50439	PL.50438	ABC	#1/0 ACSR	7.44Y	124.1	0.00	0.92	6.51	3	142	33	97	0.00	0.0	1.172	0.026	0	0	0	9
PL.50440	PL.50439	ABC	#1/0 ACSR	7.44Y	124.1	0.00	0.92	6.51	3	142	33	97	0.00	0.0	1.195	0.023	0	0	0	9
PL.49751	PL.50440	ABC	#1/0 ACSR	7.44Y	124.1	0.00	0.93	6.51	3	142	33	97	0.00	0.0	1.222	0.028	0	0	0	9
PL.49930	PL.49751	ABC	#1/0 ACSR	7.44Y	124.1	0.00	0.93	6.51	3	142	33	97	0.00	0.0	1.256	0.033	0	0	0	9
PL.49931	PL.49930	ABC	#1/0 ACSR	7.44Y	124.1	0.00	0.93	6.51	3	142	33	97	0.00	0.0	1.289	0.034	0	0	0	9
PL.49995	PL.49931	C	#1/0 ACSR	7.44Y	124.1	0.00	0.94	6.70	3	49	11	98	0.00	0.0	1.291	0.002	0	0	0	4
PD.7623	PL.49995	C	30QA	7.44Y	124.1	0.00	0.94	6.70	22	49	11	98	0.00	0.0	1.291	0.002	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: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.49996	PD.7623	C	#1/0 ACSR	7.44Y	124.1	0.01	0.94	6.70	3	49	11	98	0.00	0.0	1.346	0.055	0	0	0	4
PL.49975	PL.49996	C	#1/0 ACSR	7.44Y	124.1	0.00	0.94	2.13	1	15	4	97	0.00	0.0	1.386	0.040	15	4	1	1
PL.50447	PL.49996	C	#1/0 ACSR	7.44Y	124.1	0.00	0.95	2.68	1	19	5	97	0.00	0.0	1.374	0.028	0	0	0	1
PL.63692	PL.50447	C	#1/0 ACSR	7.44Y	124.1	0.00	0.95	2.68	1	19	5	97	0.00	0.0	1.407	0.033	19	5	1	1
PL.49689	PL.49996	C	#1/0 ACSR	7.44Y	124.1	0.00	0.94	1.89	1	14	3	98	0.00	0.0	1.372	0.026	14	3	2	2
PL.50269	PL.49931	B	6 A (CWC)	7.44Y	124.1	0.01	0.95	1.88	1	14	3	98	0.00	0.0	1.575	0.286	14	3	1	1
PL.49997	PL.49931	A	6 A (CWC)	7.44Y	124.1	0.00	0.94	10.96	8	79	19	97	0.00	0.0	1.292	0.003	0	0	0	4
PD.7668	PL.49997	A	30QA	7.44Y	124.1	0.00	0.94	10.96	37	79	19	97	0.00	0.0	1.292	0.003	0	0	0	4
PL.49998	PD.7668	A	6 A (CWC)	7.44Y	124.0	0.05	0.99	10.96	8	79	19	97	0.03	0.0	1.414	0.123	20	5	1	4
PL.50000	PL.49998	A	#4 ACSR	7.44Y	124.0	0.01	1.00	5.49	4	40	9	98	0.00	0.0	1.448	0.034	0	0	0	2
PL.50001	PL.50000	A	#4 ACSR	7.44Y	124.0	0.01	1.01	5.49	4	40	9	98	0.00	0.0	1.534	0.085	40	9	2	2
PL.49999	PL.49998	A	6 A (CWC)	7.44Y	124.0	0.00	0.99	2.73	2	20	5	97	0.00	0.0	1.463	0.049	20	5	1	1
PL.49981	PL.50323	ABC	#1/0 ACSR	7.45Y	124.1	0.00	0.91	1.03	0	22	5	98	0.00	0.0	1.089	0.033	22	5	1	1
PL.50435	PL.49981	A	#2 ACSR	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	1.091	0.003	0	0	0	0
PD.7661	PL.50435	A	25QA	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	1.091	0.003	0	0	0	0
PL.50436	PD.7661	A	#2 ACSR	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	1.111	0.020	0	0	0	0
PL.50434	PL.50436	A	#2 ACSR	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	1.139	0.027	0	0	0	0
PL.50433	PL.50434	A	#2 ACSR	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	1.167	0.028	0	0	0	0
PL.50443	PL.50323	C	6 A (CWC)	7.45Y	124.1	0.00	0.91	15.59	11	113	27	97	0.00	0.0	1.058	0.003	0	0	0	11
PD.7624	PL.50443	C	60QA	7.45Y	124.1	0.00	0.91	15.59	26	113	27	97	0.00	0.0	1.058	0.003	0	0	0	11
PL.50444	PD.7624	C	6 A (CWC)	7.44Y	124.1	0.04	0.95	15.59	11	113	27	97	0.03	0.0	1.115	0.056	12	3	1	11
PL.50441	PL.50444	C	6 A (CWC)	7.44Y	124.0	0.02	0.97	13.90	10	101	24	97	0.02	0.0	1.157	0.042	12	3	1	10
PL.50442	PL.50441	C	6 A (CWC)	7.44Y	124.0	0.01	0.98	9.19	7	67	16	97	0.00	0.0	1.185	0.029	38	9	2	6
PL.50445	PL.50442	C	6 A (CWC)	7.44Y	124.0	0.01	0.99	4.00	3	29	7	97	0.00	0.0	1.235	0.050	16	4	2	4
PL.50446	PL.50445	C	6 A (CWC)	7.44Y	124.0	0.00	0.99	1.74	1	13	3	97	0.00	0.0	1.272	0.037	2	0	1	2
PL.49692	PL.50446	C	#2 ACSR	7.44Y	124.0	0.00	0.99	1.53	1	11	3	96	0.00	0.0	1.343	0.071	11	3	1	1
PL.50117	PL.50441	C	6 A (CWC)	7.44Y	124.0	0.00	0.97	3.08	2	22	5	98	0.00	0.0	1.193	0.037	22	5	3	3
PL.49756	PL.50428	C	#2 ACSR	7.45Y	124.2	0.00	0.83	0.00	0	0	0	100	0.00	0.0	0.753	0.002	0	0	0	0
PD.7625	PL.49756	C	25QA	7.45Y	124.2	0.00	0.83	0.00	0	0	0	100	0.00	0.0	0.753	0.002	0	0	0	0
PL.49757	PD.7625	C	#2 ACSR	7.45Y	124.2	0.00	0.83	0.00	0	0	0	100	0.00	0.0	0.785	0.032	0	0	0	0
PL.50429	PL.49541	ABC	#4 ACSR	7.46Y	124.3	0.00	0.73	0.24	0	5	2	93	0.00	0.0	0.610	0.003	0	0	0	1

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.7653	PL.50429	ABC	60QA	7.46Y	124.3	0.00	0.73	0.24	0	5	2	93	0.00	0.0	0.610	0.003	0	0	0	1
PL.50430	PD.7653	ABC	#4 ACSR	7.46Y	124.3	0.00	0.73	0.24	0	5	2	93	0.00	0.0	0.627	0.018	5	2	1	1
PL.51978	PL.49539	C	6 A (CWC)	7.46Y	124.3	0.00	0.67	1.20	1	9	2	98	0.00	0.0	0.547	0.003	0	0	0	1
PD.7961	PL.51978	C	25QA	7.46Y	124.3	0.00	0.67	1.20	5	9	2	98	0.00	0.0	0.547	0.003	0	0	0	1
PL.51979	PD.7961	C	6 A (CWC)	7.46Y	124.3	0.00	0.67	1.20	1	9	2	98	0.00	0.0	0.558	0.011	0	0	0	1
PL.49540	PL.51979	C	6 A (CWC)	7.46Y	124.3	0.00	0.67	1.20	1	9	2	98	0.00	0.0	0.631	0.074	9	2	1	1
PL.50089	PL.50052	ABC	336 MCM AC	7.47Y	124.4	0.02	0.58	59.14	11	1284	324	97	0.16	0.0	0.468	0.053	0	0	0	127
PL.59610	PL.50089	ABC	336 MCM AC	7.47Y	124.4	0.00	0.58	59.14	11	1284	324	97	0.01	0.0	0.471	0.002	0	0	0	127
PD.8802	PL.59610	ABC	100L	7.47Y	124.4	0.00	0.58	59.14	59	1284	324	97	0.00	0.0	0.471	0.002	0	0	0	127
PL.60868	PD.8802	ABC	336 MCM AC	7.45Y	124.1	0.30	0.88	59.14	11	1284	324	97	2.08	0.2	1.182	0.711	12	3	1	127
PL.60869	PL.60868	ABC	336 MCM AC	7.43Y	123.8	0.29	1.18	58.57	11	1270	316	97	2.02	0.2	1.880	0.698	0	0	0	126
PL.52668	PL.60869	ABC	336 MCM AC	7.42Y	123.7	0.09	1.27	58.57	11	1268	311	97	0.65	0.1	2.104	0.224	0	0	0	126
PL.49870	PL.52668	ABC	336 MCM AC	7.42Y	123.6	0.14	1.41	58.57	11	1267	310	97	1.00	0.1	2.450	0.346	0	0	0	126
PL.49441	PL.49870	ABC	336 MCM AC	7.41Y	123.5	0.06	1.47	58.57	11	1266	308	97	0.40	0.0	2.588	0.139	0	0	0	126
PL.49571	PL.49441	A	6 A (CWC)	7.41Y	123.5	0.01	1.48	5.13	4	37	9	97	0.00	0.0	2.652	0.064	23	5	2	3
PL.47069	PL.49571	A	6 A (CWC)	7.41Y	123.5	0.00	1.48	1.95	1	14	3	98	0.00	0.0	2.654	0.002	0	0	0	1
PD.7686	PL.47069	A	60QA	7.41Y	123.5	0.00	1.48	1.95	3	14	3	98	0.00	0.0	2.654	0.002	0	0	0	1
PL.47070	PD.7686	A	6 A (CWC)	7.41Y	123.5	0.00	1.49	1.95	1	14	3	98	0.00	0.0	2.724	0.070	14	3	1	1
PL.49868	PL.49441	ABC	336 MCM AC	7.41Y	123.5	0.03	1.51	50.37	10	1088	265	97	0.20	0.0	2.682	0.093	0	0	0	110
PL.52267	PL.49868	C	6 A (CWC)	7.41Y	123.5	0.00	1.51	1.74	1	13	3	97	0.00	0.0	2.683	0.001	0	0	0	2
PD.7968	PL.52267	C	25QA	7.41Y	123.5	0.00	1.51	1.74	7	13	3	97	0.00	0.0	2.683	0.001	0	0	0	2
PL.52268	PD.7968	C	6 A (CWC)	7.41Y	123.5	0.00	1.51	1.74	1	13	3	97	0.00	0.0	2.754	0.072	13	3	2	2
PL.49869	PL.49868	ABC	336 MCM AC	7.40Y	123.3	0.17	1.68	49.79	10	1075	261	97	1.00	0.1	3.160	0.478	0	0	0	108
PL.51823	PL.49869	B	#4 ACSR	7.40Y	123.3	0.01	1.69	11.81	9	85	20	97	0.01	0.0	3.184	0.024	0	0	0	12
PD.7935	PL.51823	B	50L	7.40Y	123.3	0.00	1.69	11.81	24	85	20	97	0.00	0.0	3.184	0.024	0	0	0	12
PL.51824	PD.7935	B	#4 ACSR	7.40Y	123.3	0.00	1.69	11.81	9	85	20	97	0.00	0.0	3.185	0.001	0	0	0	12
PL.51822	PL.51824	B	#4 ACSR	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	3.222	0.037	0	0	0	0
PL.49749	PL.51824	B	#4 ACSR	7.39Y	123.2	0.09	1.78	11.81	9	85	20	97	0.06	0.1	3.365	0.180	4	1	1	12
PL.49546	PL.49749	B	#4 ACSR	7.39Y	123.2	0.05	1.83	11.22	9	81	19	97	0.03	0.0	3.461	0.096	0	0	0	11
PL.49547	PL.49546	B	#4 ACSR	7.39Y	123.1	0.06	1.89	11.22	9	81	19	97	0.04	0.0	3.579	0.118	0	0	0	11
PL.49469	PL.49547	B	#4 ACSR	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	3.663	0.085	0	0	0	0

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.60772	PL.49547	B	6 A (CWC)	7.38Y	123.0	0.08	1.97	11.22	8	81	19	97	0.05	0.1	3.746	0.167	0	0	1	11
PL.60774	PL.60772	B	6 A (CWC)	7.38Y	123.0	0.06	2.03	5.32	4	38	9	97	0.02	0.0	4.025	0.279	5	1	1	5
PL.49878	PL.60774	B	6 A (CWC)	7.38Y	122.9	0.02	2.05	4.59	3	33	8	97	0.01	0.0	4.129	0.105	0	0	0	4
PL.49879	PL.49878	B	6 A (CWC)	7.38Y	122.9	0.01	2.07	4.59	3	33	8	97	0.00	0.0	4.197	0.067	0	0	0	4
PL.49880	PL.49879	B	6 A (CWC)	7.38Y	122.9	0.00	2.07	4.00	3	29	7	97	0.00	0.0	4.226	0.029	13	3	1	3
PL.49549	PL.49880	B	6 A (CWC)	7.38Y	122.9	0.01	2.08	2.13	2	15	4	97	0.00	0.0	4.318	0.092	0	0	0	2
PL.49882	PL.49549	B	6 A (CWC)	7.37Y	122.9	0.01	2.10	2.13	2	15	4	97	0.00	0.0	4.463	0.145	0	0	0	2
PL.49884	PL.49882	B	#4 ACSR	7.37Y	122.9	0.00	2.10	2.13	2	15	4	97	0.00	0.0	4.508	0.045	15	3	1	2
PL.49885	PL.49884	B	#4 ACSR	7.37Y	122.9	0.00	2.10	0.10	0	1	0	100	0.00	0.0	4.553	0.045	1	0	1	1
PL.49883	PL.49882	B	6 A (CWC)	7.37Y	122.9	0.00	2.10	0.00	0	0	0	100	0.00	0.0	4.597	0.134	0	0	0	0
PL.49881	PL.49879	B	6 A (CWC)	7.38Y	122.9	0.01	2.07	0.58	0	4	1	97	0.00	0.0	4.435	0.239	0	0	0	1
PL.60867	PL.49881	B	6 A (CWC)	7.38Y	122.9	0.00	2.08	0.58	0	4	1	97	0.00	0.0	4.640	0.205	4	1	1	1
PL.60771	PL.60772	B	#4 ACSR	7.38Y	123.0	0.01	1.98	2.14	2	15	4	97	0.00	0.0	3.895	0.149	0	0	0	2
PL.49722	PL.60771	B	#4 ACSR	7.38Y	123.0	0.02	2.00	2.14	2	15	4	97	0.00	0.0	4.153	0.259	8	2	1	2
PL.49723	PL.49722	B	#4 ACSR	7.38Y	123.0	0.00	2.01	0.98	1	7	2	96	0.00	0.0	4.339	0.186	7	2	1	1
PL.60773	PL.60772	B	#4 ACSR	7.38Y	123.0	0.01	1.98	3.74	3	27	6	98	0.00	0.0	3.843	0.097	14	3	1	3
PL.49548	PL.60773	B	#4 ACSR	7.38Y	123.0	0.00	1.99	1.76	1	13	3	97	0.00	0.0	3.937	0.094	13	3	2	2
PL.49715	PL.49869	ABC	#1/0 ACSR	7.40Y	123.3	0.07	1.75	45.85	20	989	239	97	0.51	0.1	3.252	0.092	13	3	1	96
PL.49716	PL.49715	ABC	#1/0 ACSR	7.39Y	123.2	0.10	1.85	45.24	20	976	235	97	0.67	0.1	3.380	0.128	38	9	2	95
PL.49714	PL.49716	ABC	#1/0 ACSR	7.39Y	123.1	0.03	1.88	43.50	19	937	226	97	0.19	0.0	3.417	0.038	0	0	1	93
PL.49713	PL.49714	ABC	#1/0 ACSR	7.38Y	123.0	0.11	1.99	43.49	19	937	225	97	0.74	0.1	3.565	0.148	15	4	1	92
PL.59611	PL.49713	C	6 A (CWC)	7.38Y	122.9	0.08	2.07	78.79	56	565	136	97	0.32	0.1	3.587	0.021	0	0	0	56
PL.59612	PL.59611	C	6 A (CWC)	7.38Y	122.9	0.01	2.08	78.79	56	565	136	97	0.04	0.0	3.589	0.003	0	0	0	56
PD.8803	PL.59612	C	140L	7.38Y	122.9	0.00	2.08	78.79	56	565	136	97	0.00	0.0	3.589	0.003	0	0	0	56
PL.59613	PD.8803	C	6 A (CWC)	7.37Y	122.8	0.13	2.21	78.79	56	565	136	97	0.56	0.1	3.627	0.038	26	6	2	56
PL.49711	PL.59613	C	6 A (CWC)	7.35Y	122.5	0.32	2.53	73.58	53	527	126	97	1.28	0.2	3.725	0.098	0	0	0	53
PL.49712	PL.49711	C	6 A (CWC)	7.34Y	122.4	0.11	2.65	23.98	17	171	41	97	0.15	0.1	3.831	0.106	5	1	1	15
PL.49971	PL.49712	C	6 A (CWC)	7.34Y	122.3	0.02	2.66	8.62	6	62	15	97	0.01	0.0	3.881	0.050	24	6	2	6
PL.50099	PL.49971	C	6 A (CWC)	7.34Y	122.3	0.01	2.67	5.32	4	38	9	97	0.00	0.0	3.918	0.036	9	2	1	4
PL.50100	PL.50099	C	6 A (CWC)	7.34Y	122.3	0.00	2.68	4.08	3	29	7	97	0.00	0.0	3.953	0.036	29	7	3	3
PL.60783	PL.49712	C	6 A (CWC)	7.34Y	122.3	0.03	2.68	14.73	11	105	25	97	0.03	0.0	3.884	0.053	10	2	1	8

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: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.60784	PL.60783	C	6 A (CWC)	7.34Y	122.3	0.03	2.71	13.36	10	95	23	97	0.02	0.0	3.939	0.054	32	8	1	7
PL.49970	PL.60784	C	6 A (CWC)	7.34Y	122.3	0.00	2.71	1.68	1	12	3	97	0.00	0.0	4.000	0.061	12	3	3	3
PL.63958	PL.60784	C	#4 ACSR	7.34Y	122.3	0.00	2.71	7.22	6	52	12	97	0.00	0.0	3.953	0.014	0	0	0	3
PL.64523	PL.63958	C	#4 ACSR	7.34Y	122.3	0.01	2.72	7.22	6	52	12	97	0.00	0.0	3.978	0.025	22	5	1	3
PL.64524	PL.64523	C	#4 ACSR	7.34Y	122.3	0.01	2.73	4.16	3	30	7	97	0.00	0.0	4.039	0.061	30	7	2	2
PL.49717	PL.49711	C	6 A (CWC)	7.33Y	122.2	0.24	2.77	49.60	35	354	85	97	0.63	0.2	3.830	0.105	0	0	0	38
PL.49610	PL.49717	C	#4 ACSR	7.33Y	122.2	0.00	2.77	1.91	1	14	3	98	0.00	0.0	3.883	0.053	14	3	1	1
PL.49556	PL.49717	C	6 A (CWC)	7.32Y	122.1	0.16	2.93	47.69	34	340	81	97	0.41	0.1	3.904	0.074	0	0	0	37
PL.49557	PL.49556	C	6 A (CWC)	7.31Y	121.9	0.17	3.10	45.22	32	322	77	97	0.42	0.1	3.989	0.085	0	0	0	36
PL.50073	PL.49557	C	6 A (CWC)	7.31Y	121.8	0.10	3.21	35.43	25	252	60	97	0.19	0.1	4.052	0.063	1	0	1	30
PL.59299	PL.50073	C	6 A (CWC)	7.31Y	121.8	0.00	3.21	32.09	23	228	55	97	0.01	0.0	4.055	0.003	0	0	0	28
PD.8776	PL.59299	C	25T	7.31Y	121.8	0.00	3.21	32.09	0	228	55	97	0.00	0.0	4.055	0.003	0	0	0	28
PL.59300	PD.8776	C	6 A (CWC)	7.28Y	121.4	0.38	3.59	32.09	23	228	55	97	0.66	0.3	4.319	0.264	0	0	0	28
PL.49600	PL.59300	C	6 A (CWC)	7.28Y	121.3	0.10	3.70	31.30	22	222	53	97	0.17	0.1	4.391	0.072	0	0	1	27
PL.50271	PL.49600	C	6 A (CWC)	7.28Y	121.3	0.00	3.70	1.98	1	14	3	98	0.00	0.0	4.430	0.038	14	3	1	1
PL.49764	PL.49600	C	6 A (CWC)	7.28Y	121.3	0.00	3.70	1.76	1	12	3	97	0.00	0.0	4.482	0.091	12	3	1	1
PL.49601	PL.49600	C	6 A (CWC)	7.26Y	121.1	0.25	3.95	27.57	20	195	46	97	0.37	0.2	4.593	0.201	0	0	0	24
PL.50105	PL.49601	C	6 A (CWC)	7.26Y	121.0	0.08	4.03	23.03	16	163	39	97	0.10	0.1	4.671	0.079	0	0	0	21
PL.49603	PL.50105	C	6 A (CWC)	7.25Y	120.9	0.08	4.10	19.56	14	138	33	97	0.07	0.1	4.765	0.094	26	6	2	20
PL.49604	PL.49603	C	6 A (CWC)	7.25Y	120.8	0.10	4.20	15.90	11	112	27	97	0.08	0.1	4.906	0.141	6	1	1	18
PL.49605	PL.49604	C	6 A (CWC)	7.24Y	120.7	0.05	4.25	15.09	11	106	25	97	0.04	0.0	4.978	0.072	0	0	0	17
PL.49775	PL.49605	C	#4 ACSR	7.24Y	120.7	0.01	4.26	2.90	2	20	5	97	0.00	0.0	5.047	0.069	0	0	0	4
PL.63665	PL.49775	C	#1/0 ACSR	7.24Y	120.7	0.00	4.26	2.90	1	20	5	97	0.00	0.0	5.079	0.032	8	2	2	4
PL.63666	PL.63665	C	#1/0 ACSR	7.24Y	120.7	0.00	4.26	1.81	1	13	3	97	0.00	0.0	5.136	0.057	0	0	0	2
PL.63667	PL.63666	C	#1/0 ACSR	7.24Y	120.7	0.00	4.27	1.81	1	13	3	97	0.00	0.0	5.165	0.029	13	3	2	2
PL.60792	PL.49605	C	6 A (CWC)	7.24Y	120.7	0.03	4.28	12.20	9	86	20	97	0.02	0.0	5.034	0.056	13	3	1	13
PL.60793	PL.60792	C	6 A (CWC)	7.24Y	120.7	0.01	4.29	10.36	7	73	17	97	0.01	0.0	5.064	0.030	6	1	1	12
PL.49606	PL.60793	C	6 A (CWC)	7.24Y	120.7	0.02	4.31	9.55	7	67	16	97	0.01	0.0	5.109	0.045	0	0	0	11
PL.50499	PL.49606	C	6 A (CWC)	7.24Y	120.7	0.03	4.34	9.55	7	67	16	97	0.01	0.0	5.182	0.073	16	4	1	11
PL.49806	PL.50499	C	#4 ACSR	7.24Y	120.7	0.00	4.34	0.00	0	0	0	100	0.00	0.0	5.218	0.036	0	0	1	1
PL.49684	PL.50499	C	#2 ACSR	7.24Y	120.7	0.00	4.34	1.64	1	12	3	97	0.00	0.0	5.209	0.027	12	3	2	2

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50500	PL.50499	C	6 A (CWC)	7.24Y	120.7	0.01	4.35	5.70	4	40	9	98	0.00	0.0	5.212	0.030	12	3	1	7
PL.50501	PL.50500	C	6 A (CWC)	7.24Y	120.6	0.01	4.36	4.05	3	29	7	97	0.00	0.0	5.286	0.074	8	2	1	6
PL.49470	PL.50501	C	#2 ACSR	7.24Y	120.6	0.00	4.36	0.93	1	7	2	96	0.00	0.0	5.335	0.049	7	2	1	1
PL.50502	PL.50501	C	6 A (CWC)	7.24Y	120.6	0.00	4.36	2.01	1	14	3	98	0.00	0.0	5.325	0.039	0	0	0	4
PL.49719	PL.50502	C	#2 ACSR	7.24Y	120.6	0.00	4.36	2.01	1	14	3	98	0.00	0.0	5.345	0.020	14	3	1	1
PL.50503	PL.50502	C	6 A (CWC)	7.24Y	120.6	0.00	4.36	0.00	0	0	0	100	0.00	0.0	5.362	0.037	0	0	1	3
PL.50504	PL.50503	C	6 A (CWC)	7.24Y	120.6	0.00	4.36	0.00	0	0	0	100	0.00	0.0	5.465	0.103	0	0	1	2
PL.60782	PL.50504	C	#2 ACSR	7.24Y	120.6	0.00	4.36	0.00	0	0	0	100	0.00	0.0	5.552	0.086	0	0	1	1
PL.50505	PL.50504	C	6 A (CWC)	7.24Y	120.6	0.00	4.36	0.00	0	0	0	100	0.00	0.0	5.528	0.063	0	0	0	0
PL.50107	PL.49603	C	#2 ACSR	7.25Y	120.9	0.00	4.10	0.00	0	0	0	100	0.00	0.0	4.864	0.099	0	0	0	0
PL.60334	PL.50105	C	#4 ACSR	7.26Y	121.0	0.00	4.03	3.47	3	25	6	97	0.00	0.0	4.696	0.025	0	0	0	1
PL.60335	PL.60334	C	#4 ACSR	7.26Y	121.0	0.00	4.04	3.47	3	25	6	97	0.00	0.0	4.738	0.042	25	6	1	1
PL.50140	PL.49601	C	#2 ACSR	7.26Y	121.1	0.00	3.95	2.02	1	14	3	98	0.00	0.0	4.681	0.088	14	3	1	1
PL.50104	PL.49601	C	#4 ACSR	7.26Y	121.1	0.00	3.95	2.52	2	18	4	98	0.00	0.0	4.654	0.061	18	4	2	2
PL.49602	PL.59300	C	6 A (CWC)	7.28Y	121.4	0.01	3.60	0.79	1	6	1	99	0.00	0.0	4.651	0.332	0	0	0	1
PL.57735	PL.49602	C	6 A (CWC)	7.28Y	121.4	0.00	3.61	0.79	1	6	1	99	0.00	0.0	4.749	0.097	6	1	1	1
PL.57736	PL.57735	C	6 A (CWC)	7.28Y	121.4	0.00	3.61	0.00	0	0	0	100	0.00	0.0	4.751	0.003	0	0	0	0
PL.49725	PL.50073	C	6 A (CWC)	7.31Y	121.8	0.00	3.21	3.23	2	23	5	98	0.00	0.0	4.086	0.034	23	5	1	1
PL.49558	PL.49557	C	6 A (CWC)	7.31Y	121.9	0.03	3.13	9.79	7	70	16	97	0.02	0.0	4.057	0.067	0	0	0	6
PL.49544	PL.49558	C	6 A (CWC)	7.31Y	121.8	0.05	3.19	9.79	7	70	16	97	0.03	0.0	4.180	0.123	10	2	1	6
PL.49545	PL.49544	C	6 A (CWC)	7.31Y	121.8	0.00	3.19	6.34	5	45	11	97	0.00	0.0	4.210	0.031	45	11	3	3
PL.49992	PL.49544	C	#2 ACSR	7.31Y	121.8	0.00	3.19	2.00	1	14	3	98	0.00	0.0	4.211	0.032	14	3	2	2
PL.49978	PL.49558	C	6 A (CWC)	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	4.115	0.059	0	0	0	0
PL.50386	PL.49556	C	#2 ACSR	7.32Y	122.1	0.00	2.93	2.47	1	18	4	98	0.00	0.0	3.943	0.039	0	0	0	1
PL.50387	PL.50386	C	#2 ACSR	7.32Y	122.1	0.00	2.93	2.47	1	18	4	98	0.00	0.0	3.944	0.000	18	4	1	1
PL.50066	PL.59613	C	#4 ACSR	7.37Y	122.8	0.00	2.21	1.61	1	12	3	97	0.00	0.0	3.661	0.033	12	3	1	1
PL.57749	PL.49713	A	6 A (CWC)	7.38Y	123.0	0.01	2.01	7.22	5	52	12	97	0.00	0.0	3.623	0.058	22	5	1	2
PL.57750	PL.57749	A	6 A (CWC)	7.38Y	123.0	0.00	2.01	4.09	3	29	7	97	0.00	0.0	3.668	0.045	29	7	1	1
PL.49709	PL.49713	A	6 A (CWC)	7.38Y	123.0	0.01	2.00	42.35	30	304	73	97	0.01	0.0	3.568	0.003	0	0	0	33
PD.7724	PL.49709	A	70L	7.38Y	123.0	0.00	2.00	42.35	61	304	73	97	0.00	0.0	3.568	0.003	0	0	0	33
PL.49710	PD.7724	A	6 A (CWC)	7.37Y	122.8	0.25	2.25	42.35	30	304	73	97	0.57	0.2	3.698	0.130	0	0	0	33

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50212	PL.49710	A	6 A (CWC)	7.36Y	122.7	0.01	2.25	31.47	22	225	54	97	0.01	0.0	3.704	0.006	0	0	0	26
PD.7719	PL.50212	A	50L	7.36Y	122.7	0.00	2.25	31.47	63	225	54	97	0.00	0.0	3.704	0.006	0	0	0	26
PL.49663	PD.7719	A	6 A (CWC)	7.35Y	122.6	0.18	2.44	31.47	22	225	54	97	0.30	0.1	3.835	0.131	9	2	1	26
PL.50143	PL.49663	A	6 A (CWC)	7.35Y	122.5	0.07	2.51	30.18	22	216	52	97	0.12	0.1	3.888	0.054	0	0	0	25
PL.50280	PL.50143	A	6 A (CWC)	7.34Y	122.3	0.18	2.69	30.18	22	216	52	97	0.30	0.1	4.022	0.134	0	0	0	25
PL.50144	PL.50280	A	6 A (CWC)	7.34Y	122.3	0.01	2.70	30.18	22	215	51	97	0.01	0.0	4.028	0.006	0	0	0	25
RG.52	PL.50144	A	76.2 KVA	7.48Y	124.6	-2.34	0.36	30.18	30	215	51	97	percent Boost= 1.88			Tap= 3.0				25
PL.50211	RG.52	A	6 A (CWC)	7.47Y	124.5	0.09	0.46	29.62	21	215	51	97	0.15	0.1	4.097	0.069	0	0	0	25
PL.49695	PL.50211	A	6 A (CWC)	7.45Y	124.2	0.35	0.81	26.47	19	192	46	97	0.49	0.3	4.393	0.296	5	1	1	22
PL.49703	PL.49695	A	6 A (CWC)	7.44Y	124.1	0.13	0.93	25.80	18	187	44	97	0.17	0.1	4.501	0.108	0	0	0	21
PL.49704	PL.49703	A	6 A (CWC)	7.44Y	124.0	0.09	1.03	25.80	18	187	44	97	0.12	0.1	4.590	0.089	31	7	3	21
PL.49598	PL.49704	A	6 A (CWC)	7.44Y	123.9	0.04	1.07	21.55	15	156	37	97	0.05	0.0	4.635	0.045	0	0	0	18
PL.49485	PL.49598	A	6 A (CWC)	7.43Y	123.9	0.03	1.10	18.44	13	133	32	97	0.03	0.0	4.678	0.044	24	6	1	16
PL.49486	PL.49485	A	6 A (CWC)	7.43Y	123.8	0.08	1.19	15.07	11	109	26	97	0.07	0.1	4.802	0.124	0	0	0	15
PL.49487	PL.49486	A	6 A (CWC)	7.43Y	123.8	0.04	1.23	12.87	9	93	22	97	0.03	0.0	4.878	0.076	0	0	0	14
PL.49488	PL.49487	A	6 A (CWC)	7.42Y	123.7	0.06	1.30	10.77	8	78	18	97	0.04	0.0	5.006	0.128	0	0	1	13
PL.49489	PL.49488	A	6 A (CWC)	7.42Y	123.7	0.03	1.33	10.08	7	73	17	97	0.02	0.0	5.084	0.078	4	1	1	11
PL.60789	PL.49489	A	6 A (CWC)	7.42Y	123.7	0.01	1.34	2.27	2	16	4	97	0.00	0.0	5.174	0.090	0	0	1	5
PL.60788	PL.60789	A	6 A (CWC)	7.42Y	123.7	0.01	1.35	2.27	2	16	4	97	0.00	0.0	5.259	0.085	0	0	1	4
PL.50135	PL.60788	A	6 A (CWC)	7.42Y	123.6	0.02	1.37	2.25	2	16	4	97	0.00	0.0	5.489	0.231	0	0	0	3
PL.49705	PL.50135	A	6 A (CWC)	7.42Y	123.6	0.01	1.38	1.60	1	12	3	97	0.00	0.0	5.651	0.162	0	0	0	2
PL.49706	PL.49705	A	6 A (CWC)	7.42Y	123.6	0.00	1.38	0.02	0	0	0	100	0.00	0.0	5.772	0.121	0	0	1	1
PL.52264	PL.49706	A	6 A (CWC)	7.42Y	123.6	0.00	1.38	0.00	0	0	0	100	0.00	0.0	5.774	0.002	0	0	0	0
PD.7966-B	PL.52264	A	Open	7.42Y	123.6	0.00	1.38	0.00	0	0	0	100	0.00	0.0	5.774	0.002	0	0	0	0
PL.49707	PL.49705	A	6 A (CWC)	7.42Y	123.6	0.00	1.38	1.58	1	11	3	96	0.00	0.0	5.661	0.010	0	0	0	1
PD.7680	PL.49707	A	25QA	7.42Y	123.6	0.00	1.38	1.58	6	11	3	96	0.00	0.0	5.661	0.010	0	0	0	1
PL.49708	PD.7680	A	6 A (CWC)	7.42Y	123.6	0.01	1.39	1.58	1	11	3	96	0.00	0.0	5.904	0.243	11	3	1	1
PL.50279	PL.50135	A	#2 ACSR	7.42Y	123.6	0.00	1.37	0.66	0	5	1	98	0.00	0.0	5.573	0.084	5	1	1	1
PL.50384	PL.49489	A	6 A (CWC)	7.42Y	123.6	0.04	1.37	7.24	5	52	12	97	0.02	0.0	5.241	0.157	14	3	1	5
PL.50385	PL.50384	A	6 A (CWC)	7.42Y	123.6	0.01	1.39	5.35	4	39	9	97	0.00	0.0	5.287	0.046	0	0	0	4
PL.49481	PL.50385	A	6 A (CWC)	7.42Y	123.6	0.00	1.39	0.00	0	0	0	100	0.00	0.0	5.324	0.037	0	0	0	0

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.49482	PL.49481	A	6 A (CWC)	7.42Y	123.6	0.00	1.39	0.00	0	0	0	100	0.00	0.0	5.505	0.181	0	0	0	0
PL.49483	PL.50385	A	6 A (CWC)	7.41Y	123.6	0.04	1.43	5.35	4	39	9	97	0.01	0.0	5.465	0.178	0	0	0	4
PL.49484	PL.49483	A	6 A (CWC)	7.41Y	123.6	0.00	1.43	2.51	2	18	4	98	0.00	0.0	5.517	0.052	18	4	1	1
PL.50087	PL.49483	A	#4 ACSR	7.41Y	123.6	0.01	1.44	2.82	2	20	5	97	0.00	0.0	5.541	0.077	1	0	1	2
PL.63817	PL.50087	A	#1/0 ACSR	7.41Y	123.6	0.00	1.44	2.72	1	20	5	97	0.00	0.0	5.619	0.078	20	5	1	1
PL.66147	PL.49483	A	#1/0 ACSR	7.41Y	123.6	0.00	1.43	0.02	0	0	0	100	0.00	0.0	5.539	0.074	0	0	0	1
PL.66148	PL.66147	A	1/0 AL URD	7.41Y	123.6	0.00	1.43	0.02	0	0	0	100	0.00	0.0	5.580	0.042	0	0	1	1
PL.49607	PL.49488	A	#1/0 ACSR	7.42Y	123.7	0.00	1.30	0.65	0	5	1	98	0.00	0.0	5.145	0.138	5	1	1	1
PL.49991	PL.49487	A	#1/0 ACSR	7.43Y	123.8	0.00	1.23	2.10	1	15	4	97	0.00	0.0	4.923	0.045	15	4	1	1
PL.49977	PL.49486	A	#1/0 ACSR	7.43Y	123.8	0.00	1.19	2.19	1	16	4	97	0.00	0.0	4.949	0.147	16	4	1	1
PL.49479	PL.49598	A	#2 ACSR	7.44Y	123.9	0.00	1.07	3.11	2	23	5	98	0.00	0.0	4.680	0.045	4	1	1	2
PL.49480	PL.49479	A	#2 ACSR	7.44Y	123.9	0.00	1.08	2.52	1	18	4	98	0.00	0.0	4.734	0.054	18	4	1	1
PL.49608	PL.49703	A	6 A (CWC)	7.44Y	124.1	0.00	0.93	0.00	0	0	0	100	0.00	0.0	4.579	0.078	0	0	0	0
PL.49993	PL.49703	A	6 A (CWC)	7.44Y	124.1	0.00	0.93	0.00	0	0	0	100	0.00	0.0	4.572	0.071	0	0	0	0
PL.64693	PL.49703	A	6 A (CWC)	7.44Y	124.1	0.00	0.93	0.00	0	0	0	100	0.00	0.0	4.632	0.131	0	0	0	0
PL.64694	PL.64693	A	6 A (CWC)	7.44Y	124.1	0.00	0.93	0.00	0	0	0	100	0.00	0.0	4.759	0.127	0	0	0	0
PL.49664	PL.50211	A	6 A (CWC)	7.47Y	124.5	0.01	0.46	3.15	2	23	5	98	0.00	0.0	4.145	0.048	0	0	0	3
PL.49701	PL.49664	A	6 A (CWC)	7.47Y	124.5	0.01	0.47	1.69	1	12	3	97	0.00	0.0	4.287	0.142	2	1	1	2
PL.49702	PL.49701	A	6 A (CWC)	7.47Y	124.5	0.00	0.48	1.39	1	10	2	98	0.00	0.0	4.389	0.101	10	2	1	1
PL.50231	PL.49664	A	6 A (CWC)	7.47Y	124.5	0.00	0.47	1.46	1	11	3	96	0.00	0.0	4.222	0.077	11	3	1	1
PL.50102	PL.49663	A	6 A (CWC)	7.35Y	122.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	3.906	0.071	0	0	0	0
PL.50125	PL.49710	A	6 A (CWC)	7.36Y	122.7	0.10	2.34	7.44	5	53	13	97	0.04	0.1	3.984	0.287	0	0	0	5
PL.49696	PL.50125	A	6 A (CWC)	7.36Y	122.6	0.04	2.39	7.30	5	52	12	97	0.02	0.0	4.119	0.134	0	0	0	4
PL.49697	PL.49696	A	6 A (CWC)	7.35Y	122.6	0.03	2.42	7.30	5	52	12	97	0.01	0.0	4.241	0.122	23	5	1	4
PL.50228	PL.49697	A	#2 ACSR	7.35Y	122.6	0.00	2.42	0.00	0	0	0	100	0.00	0.0	4.331	0.090	0	0	1	1
PL.49698	PL.49697	A	6 A (CWC)	7.35Y	122.6	0.03	2.45	4.10	3	29	7	97	0.01	0.0	4.398	0.157	0	0	0	2
PL.49699	PL.49698	A	6 A (CWC)	7.35Y	122.5	0.03	2.47	4.10	3	29	7	97	0.00	0.0	4.589	0.190	16	4	1	2
PL.49700	PL.49699	A	6 A (CWC)	7.35Y	122.5	0.00	2.47	0.00	0	0	0	100	0.00	0.0	4.656	0.067	0	0	0	0
PL.50316	PL.49699	A	#1/0 ACSR	7.35Y	122.5	0.00	2.47	1.87	1	13	3	97	0.00	0.0	4.669	0.080	13	3	1	1
PL.60796	PL.50125	A	6 A (CWC)	7.36Y	122.7	0.00	2.34	0.14	0	1	0	100	0.00	0.0	4.056	0.072	1	0	1	1
PL.50758	PL.50125	A	6 A (CWC)	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	4.205	0.221	0	0	0	0

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.7726-A	PL.50758	A	Open	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	4.205	0.221	0	0	0	0
PL.49661	PL.49710	A	#4 ACSR	7.37Y	122.8	0.00	2.25	3.44	3	25	6	97	0.00	0.0	3.704	0.006	0	0	0	2
PD.7676	PL.49661	A	40QA	7.37Y	122.8	0.00	2.25	3.44	9	25	6	97	0.00	0.0	3.704	0.006	0	0	0	2
PL.49662	PD.7676	A	#4 ACSR	7.36Y	122.7	0.03	2.27	3.44	3	25	6	97	0.01	0.0	3.887	0.183	0	0	0	2
PL.49660	PL.49662	A	#4 ACSR	7.36Y	122.7	0.00	2.27	1.05	1	8	2	97	0.00	0.0	3.911	0.024	8	2	1	1
PL.50054	PL.49662	A	#4 ACSR	7.36Y	122.7	0.00	2.28	2.39	2	17	4	97	0.00	0.0	3.951	0.064	17	4	1	1
PL.49572	PL.49441	A	6 A (CWC)	7.41Y	123.5	0.03	1.51	9.69	7	70	17	97	0.02	0.0	2.675	0.087	17	4	1	5
PL.49810	PL.49572	A	6 A (CWC)	7.41Y	123.5	0.04	1.55	7.28	5	53	12	98	0.02	0.0	2.799	0.124	0	0	0	4
PL.49867	PL.49810	A	6 A (CWC)	7.41Y	123.4	0.01	1.55	3.51	3	25	6	97	0.00	0.0	2.857	0.057	6	1	1	3
PL.50757	PL.49867	A	6 A (CWC)	7.41Y	123.4	0.00	1.55	0.04	0	0	0	100	0.00	0.0	2.923	0.066	0	0	1	1
PL.50759	PL.50757	A	6 A (CWC)	7.41Y	123.4	0.00	1.55	0.00	0	0	0	100	0.00	0.0	2.929	0.006	0	0	0	0
PD.7726-B	PL.50759	A	Open	7.41Y	123.4	0.00	1.55	0.00	0	0	0	100	0.00	0.0	2.929	0.006	0	0	0	0
PL.49659	PL.49867	A	#1/0 ACSR	7.41Y	123.4	0.00	1.56	2.63	1	19	4	98	0.00	0.0	2.916	0.059	0	0	0	1
PL.50119	PL.49659	A	#1/0 ACSR	7.41Y	123.4	0.00	1.56	2.63	1	19	4	98	0.00	0.0	3.001	0.085	19	4	1	1
PL.63959	PL.49659	A	#1/0 ACSR	7.41Y	123.4	0.00	1.56	0.00	0	0	0	100	0.00	0.0	2.971	0.055	0	0	0	0
PL.63960	PL.63959	A	#1/0 ACSR	7.41Y	123.4	0.00	1.56	0.00	0	0	0	100	0.00	0.0	2.971	0.000	0	0	0	0
PL.49718	PL.49810	A	#4 ACSR	7.41Y	123.4	0.01	1.55	3.77	3	27	6	98	0.00	0.0	2.865	0.065	27	6	1	1
PL.62467	PL.49441	C	6 A (CWC)	7.41Y	123.5	0.00	1.47	9.81	7	71	17	97	0.00	0.0	2.591	0.003	0	0	0	8
PD.9346	PL.62467	C	40T	7.41Y	123.5	0.00	1.47	9.81	0	71	17	97	0.00	0.0	2.591	0.003	0	0	0	8
PL.62468	PD.9346	C	6 A (CWC)	7.41Y	123.5	0.01	1.49	9.81	7	71	17	97	0.01	0.0	2.629	0.038	28	7	4	8
PL.57626	PL.62468	C	6 A (CWC)	7.41Y	123.5	0.02	1.50	5.98	4	43	10	97	0.00	0.0	2.692	0.062	8	2	1	4
PL.57625	PL.57626	C	#2 ACSR	7.41Y	123.5	0.00	1.50	4.86	3	35	8	97	0.00	0.0	2.692	0.000	0	0	0	3
PL.57628	PL.57625	C	6 A (CWC)	7.41Y	123.5	0.01	1.51	4.86	3	35	8	97	0.00	0.0	2.740	0.049	10	2	1	3
PL.57627	PL.57628	C	6 A (CWC)	7.41Y	123.5	0.01	1.52	3.52	3	25	6	97	0.00	0.0	2.805	0.064	11	3	1	2
PL.49570	PL.57627	C	6 A (CWC)	7.41Y	123.5	0.00	1.52	1.94	1	14	3	98	0.00	0.0	2.849	0.045	14	3	1	1
PL.49543	PL.49570	C	6 A (CWC)	7.41Y	123.5	0.00	1.52	0.00	0	0	0	100	0.00	0.0	2.952	0.103	0	0	0	0
PL.50114	PL.49570	C	#4 ACSR	7.41Y	123.5	0.00	1.52	0.00	0	0	0	100	0.00	0.0	3.125	0.276	0	0	0	0
PL.57265	PL.57266	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	6.81	1	140	62	91	0.00	0.0	0.034	0.019	0	0	0	7
PL.57267	PL.57265	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	6.81	1	140	62	91	0.00	0.0	0.065	0.031	0	0	0	7
PL.50390	PL.57267	ABC	#4 ACSR	7.50Y	125.0	0.01	0.03	6.81	4	140	62	91	0.01	0.0	0.100	0.036	0	0	0	7
PL.50391	PL.50390	ABC	#4 ACSR	7.50Y	125.0	0.01	0.04	6.80	4	140	62	91	0.01	0.0	0.143	0.042	0	0	0	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: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50142	PL.50391	ABC	#4 ACSR	7.50Y	125.0	0.00	0.04	0.32	0	6	3	89	0.00	0.0	0.148	0.006	0	0	0	1
PD.7717	PL.50142	ABC	65QA	7.50Y	125.0	0.00	0.04	0.32	0	6	3	89	0.00	0.0	0.148	0.006	0	0	0	1
PL.50076	PD.7717	ABC	#4 ACSR	7.50Y	125.0	0.00	0.04	0.32	0	6	3	89	0.00	0.0	0.188	0.039	0	0	0	1
PL.49772	PL.50076	ABC	#4 ACSR	7.50Y	125.0	0.00	0.04	0.32	0	6	3	89	0.00	0.0	0.288	0.101	6	3	1	1
PL.50710	PL.50391	B	#4 ACSR	7.50Y	125.0	0.00	0.04	3.48	3	25	6	97	0.00	0.0	0.148	0.006	0	0	0	2
PD.7663	PL.50710	B	75QA	7.50Y	125.0	0.00	0.04	3.48	5	25	6	97	0.00	0.0	0.148	0.006	0	0	0	2
PL.50954	PD.7663	B	#4 ACSR	7.50Y	125.0	0.00	0.04	3.48	3	25	6	97	0.00	0.0	0.170	0.021	25	6	1	2
PL.57399	PL.50954	B	#4 ACSR	7.50Y	125.0	0.00	0.04	0.00	0	0	0	100	0.00	0.0	0.207	0.038	0	0	0	1
PL.57400	PL.57399	B	#4 ACSR	7.50Y	125.0	0.00	0.04	0.00	0	0	0	100	0.00	0.0	0.255	0.048	0	0	1	1
PL.64521	PL.50391	ABC	#2 ACSR	7.50Y	125.0	0.00	0.04	5.35	3	108	52	90	0.00	0.0	0.176	0.033	0	0	1	3
PL.64522	PL.64521	ABC	#2 ACSR	7.50Y	125.0	0.00	0.05	5.34	3	108	52	90	0.00	0.0	0.185	0.010	108	52	2	2
PL.50393	PL.64522	ABC	#2 ACSR	7.50Y	125.0	0.00	0.05	0.00	0	0	0	100	0.00	0.0	0.189	0.003	0	0	0	0
PL.50392	PL.50390	A	#4 ACSR	7.50Y	125.0	0.00	0.03	0.01	0	0	0	100	0.00	0.0	0.102	0.001	0	0	0	1
PD.7671	PL.50392	A	30QA	7.50Y	125.0	0.00	0.03	0.01	0	0	0	100	0.00	0.0	0.102	0.001	0	0	0	1
PL.56379	PD.7671	A	#4 ACSR	7.50Y	125.0	0.00	0.03	0.01	0	0	0	100	0.00	0.0	0.182	0.080	0	0	1	1
PL.53005	Maretburg	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	126.33	24	2558	1239	90	0.03	0.0	0.002	0.002	0	0	0	2
PL.53009	PL.53005	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	126.33	24	2558	1239	90	0.03	0.0	0.004	0.002	0	0	0	2
---------- Feeder No. 2 (M.V.P. F2) Beginning with Device PD.8065 ----------																				
PD.8065	PL.53009	ABC	480VWE	7.50Y	125.0	0.00	0.00	126.33	0	2558	1239	90	0.00	0.0	0.004	0.002	0	0	0	2
PL.50309	PD.8065	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	126.33	24	2558	1239	90	0.09	0.0	0.011	0.007	0	0	0	2
PL.57273	PL.50309	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	0.012	0.001	0	0	0	0
PL.49972	PL.50309	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	126.33	24	2558	1238	90	0.03	0.0	0.017	0.006	2556	1238	1	2
PD.7728-A	PL.49972	ABC	Closed	7.50Y	125.0	0.00	0.02	0.12	0	3	1	95	0.00	0.0	0.017	0.006	0	0	0	1
PD.7728-B	PD.7728-A	ABC	Closed	7.50Y	125.0	0.00	0.02	0.12	0	3	1	95	0.00	0.0	0.017	0.006	0	0	0	1
PL.49982	PD.7728-B	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	0.12	0	3	1	95	0.00	0.0	0.024	0.007	0	0	0	1
PL.49537	PL.49982	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	0.12	0	3	1	95	0.00	0.0	0.025	0.001	0	0	0	1
PL.49538	PL.49537	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	0.12	0	3	1	95	0.00	0.0	0.029	0.004	0	0	0	1
PL.49682	PL.49538	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.041	0.012	0	0	0	0
PL.49779	PL.49682	ABC	1/0 AL URD	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.047	0.006	0	0	0	0

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.49780	PL.49682	ABC	1/0 AL URD	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.050	0.009	0	0	0	0
PL.60340	PL.49538	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	0.12	0	3	1	95	0.00	0.0	0.207	0.178	0	0	0	1
PL.60341	PL.60340	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.223	0.016	0	0	0	0
PL.49778	PL.60341	ABC	1/0 AL URD	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.242	0.019	0	0	0	0
PL.60342	PL.60340	A	#1/0 ACSR	7.50Y	125.0	0.00	0.02	0.36	0	3	1	95	0.00	0.0	0.210	0.003	0	0	0	1
PD.9074	PL.60342	A	40QA	7.50Y	125.0	0.00	0.02	0.36	1	3	1	95	0.00	0.0	0.210	0.003	0	0	0	1
PL.60343	PD.9074	A	#1/0 ACSR	7.50Y	125.0	0.00	0.02	0.36	0	3	1	95	0.00	0.0	0.240	0.030	3	1	1	1
PL.50074	PL.49538	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.049	0.020	0	0	0	0
PL.50078	PL.50074	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.079	0.030	0	0	0	0
PL.50219	PL.50078	ABC	336 MCM AC	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.084	0.005	0	0	0	0
PL.49934	PL.50219	ABC	1/0 AL URD	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.086	0.001	0	0	0	0
PL.49935	PL.49934	ABC	1/0 AL URD	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.086	0.000	0	0	0	0
PD.7727-A	PL.49935	ABC	Closed	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.086	0.000	0	0	0	0
PD.7727-B	PD.7727-A	ABC	Closed	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.086	0.000	0	0	0	0
PL.49681	PD.7727-B	ABC	1/0 AL URD	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.120	0.034	0	0	0	0
PL.50116	PL.50078	ABC	#1/0 ACSR	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.092	0.013	0	0	0	0
CP.71	PL.49537	ABC	Cap (600)	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	0.025	0.013	0	0	0	0
PL.53006	Maretburg	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	203.18	39	4375	1324	96	0.03	0.0	0.001	0.001	0	0	0	422
PL.53008	PL.53006	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	203.18	39	4375	1324	96	0.03	0.0	0.002	0.001	0	0	0	422
---------- Feeder No. 3 (Sand Springs F3) Beginning with Device PD.8064 ----------																				
PD.8064	PL.53008	ABC	480VWE	7.50Y	125.0	0.00	0.00	203.18	0	4375	1324	96	0.00	0.0	0.002	0.001	0	0	0	422
PL.57269	PD.8064	ABC	336 MCM AC	7.50Y	125.0	0.03	0.03	203.18	39	4375	1324	96	0.61	0.0	0.019	0.017	0	0	0	422
PL.57270	PL.57269	ABC	336 MCM AC	7.49Y	124.8	0.17	0.20	203.18	39	4375	1323	96	3.74	0.1	0.127	0.108	0	0	0	422
PL.52628	PL.57270	ABC	336 MCM AC	7.48Y	124.7	0.10	0.30	203.18	39	4371	1314	96	2.34	0.1	0.194	0.067	0	0	0	422
PL.52629	PL.52628	ABC	336 MCM AC	7.48Y	124.6	0.10	0.40	203.18	39	4369	1309	96	2.18	0.0	0.257	0.063	0	0	0	422
PL.50128	PL.52629	ABC	#1/0 ACSR	7.47Y	124.5	0.07	0.47	14.55	6	302	124	93	0.15	0.1	0.525	0.269	0	0	0	7
PL.57340	PL.50128	ABC	#1/0 ACSR	7.47Y	124.5	0.00	0.47	2.70	1	58	17	96	0.00	0.0	0.536	0.010	58	17	2	2
PL.50283	PL.50128	ABC	#1/0 ACSR	7.47Y	124.5	0.02	0.49	11.86	5	243	107	92	0.04	0.0	0.619	0.094	0	0	0	5
PL.49634	PL.50283	ABC	#1/0 ACSR	7.47Y	124.5	0.03	0.52	9.89	4	200	97	90	0.04	0.0	0.780	0.161	0	0	0	1

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.49635	PL.49634	ABC	#1/0 ACSR	7.47Y	124.5	0.00	0.53	9.89	4	200	97	90	0.00	0.0	0.830	0.050	200	97	1	1
PL.49534	PL.50283	A	6 A (CWC)	7.47Y	124.5	0.00	0.49	6.02	4	44	10	98	0.00	0.0	0.624	0.004	0	0	0	4
PD.7691	PL.49534	A	60QA	7.47Y	124.5	0.00	0.49	6.02	10	44	10	98	0.00	0.0	0.624	0.004	0	0	0	4
PL.49535	PD.7691	A	6 A (CWC)	7.47Y	124.5	0.02	0.51	6.02	4	44	10	98	0.01	0.0	0.706	0.082	14	3	1	4
PL.49536	PL.49535	A	6 A (CWC)	7.47Y	124.5	0.01	0.53	4.10	3	30	7	97	0.00	0.0	0.865	0.159	30	7	3	3
PL.52635	PL.52629	ABC	336 MCM AC	7.47Y	124.6	0.05	0.44	188.71	36	4065	1179	96	0.98	0.0	0.289	0.033	0	0	0	415
PL.52636	PL.52635	ABC	336 MCM AC	7.47Y	124.5	0.07	0.51	188.71	36	4064	1177	96	1.42	0.0	0.336	0.047	0	0	0	415
PL.52637	PL.52636	ABC	336 MCM AC	7.47Y	124.5	0.00	0.51	0.00	0	0	0	100	0.00	0.0	0.373	0.036	0	0	1	1
PL.52634	PL.52636	ABC	336 MCM AC	7.47Y	124.5	0.03	0.54	188.71	36	4062	1174	96	0.67	0.0	0.359	0.022	0	0	1	414
PL.49567	PL.52634	ABC	336 MCM AC	7.46Y	124.4	0.06	0.61	188.71	36	4062	1172	96	1.35	0.0	0.404	0.045	0	0	0	413
PL.49568	PL.49567	C	#2 ACSR	7.46Y	124.4	0.00	0.61	4.44	3	32	8	97	0.00	0.0	0.407	0.003	0	0	0	3
PD.7641	PL.49568	C	60QA	7.46Y	124.4	0.00	0.61	4.44	7	32	8	97	0.00	0.0	0.407	0.003	0	0	0	3
PL.49569	PD.7641	C	#2 ACSR	7.46Y	124.4	0.00	0.61	4.44	3	32	8	97	0.00	0.0	0.435	0.027	32	8	3	3
PL.50422	PL.49567	ABC	336 MCM AC	7.45Y	124.1	0.29	0.90	187.23	36	4028	1161	96	6.18	0.2	0.613	0.209	0	0	0	410
PL.50424	PL.50422	C	#2 ACSR	7.45Y	124.1	0.00	0.90	0.28	0	2	0	100	0.00	0.0	0.616	0.003	0	0	0	1
PD.7692	PL.50424	C	60QA	7.45Y	124.1	0.00	0.90	0.28	0	2	0	100	0.00	0.0	0.616	0.003	0	0	0	1
PL.50425	PD.7692	C	#2 ACSR	7.45Y	124.1	0.00	0.90	0.28	0	2	0	100	0.00	0.0	0.644	0.028	2	0	1	1
PL.50423	PL.50422	ABC	336 MCM AC	7.44Y	124.0	0.06	0.96	187.13	36	4020	1147	96	1.21	0.0	0.654	0.041	0	0	0	409
PL.50417	PL.50423	ABC	336 MCM AC	7.44Y	124.0	0.08	1.04	174.13	34	3736	1077	96	1.65	0.0	0.719	0.064	0	0	0	388
PL.50420	PL.50417	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	4.89	3	35	8	97	0.00	0.0	0.723	0.004	0	0	0	2
PD.7639	PL.50420	C	60QA	7.44Y	124.0	0.00	1.04	4.89	8	35	8	97	0.00	0.0	0.723	0.004	0	0	0	2
PL.50421	PD.7639	C	6 A (CWC)	7.44Y	124.0	0.01	1.05	4.89	3	35	8	97	0.00	0.0	0.758	0.035	18	4	1	2
PL.50419	PL.50421	C	6 A (CWC)	7.44Y	123.9	0.00	1.05	2.41	2	17	4	97	0.00	0.0	0.815	0.057	17	4	1	1
PL.50418	PL.50417	ABC	336 MCM AC	7.44Y	123.9	0.02	1.07	172.50	33	3699	1064	96	0.48	0.0	0.738	0.019	0	0	0	386
PL.50413	PL.50418	ABC	336 MCM AC	7.43Y	123.9	0.05	1.11	172.50	33	3698	1063	96	0.90	0.0	0.773	0.036	0	0	0	386
PL.50411	PL.50413	ABC	336 MCM AC	7.42Y	123.6	0.24	1.36	169.45	33	3631	1045	96	4.64	0.1	0.965	0.192	0	0	0	380
PL.50412	PL.50411	ABC	336 MCM AC	7.42Y	123.6	0.04	1.40	169.45	33	3627	1035	96	0.84	0.0	1.000	0.035	0	0	1	380
PL.50409	PL.50412	ABC	336 MCM AC	7.41Y	123.6	0.03	1.43	169.44	33	3625	1033	96	0.51	0.0	1.021	0.021	0	0	0	379
PL.50410	PL.50409	ABC	336 MCM AC	7.41Y	123.5	0.06	1.49	169.44	33	3625	1031	96	1.21	0.0	1.071	0.050	0	0	1	379
PL.50405	PL.50410	ABC	336 MCM AC	7.41Y	123.5	0.04	1.54	169.44	33	3624	1029	96	0.85	0.0	1.106	0.035	0	0	0	378
PL.50403	PL.50405	C	#2 ACSR	7.41Y	123.5	0.00	1.54	0.72	0	5	1	98	0.00	0.0	1.110	0.003	0	0	0	1

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.7666	PL.50403	C	50T	7.41Y	123.5	0.00	1.54	0.72	0	5	1	98	0.00	0.0	1.110	0.003	0	0	0	1
PL.50404	PD.7666	C	#2 ACSR	7.41Y	123.5	0.00	1.54	0.72	0	5	1	98	0.00	0.0	1.144	0.034	5	1	1	1
PL.49623	PL.50405	ABC	336 MCM AC	7.40Y	123.4	0.09	1.63	169.20	33	3618	1025	96	1.71	0.0	1.177	0.071	0	0	1	377
PL.49622	PL.49623	ABC	336 MCM AC	7.40Y	123.3	0.07	1.69	169.20	33	3616	1021	96	1.24	0.0	1.229	0.052	0	0	0	376
PL.50133	PL.49622	C	#2 ACSR	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	1.268	0.039	0	0	0	0
PL.49755	PL.49622	ABC	336 MCM AC	7.40Y	123.3	0.04	1.73	169.20	33	3615	1018	96	0.67	0.0	1.257	0.028	0	0	0	376
PL.49754	PL.49755	ABC	336 MCM AC	7.37Y	122.9	0.36	2.09	168.77	33	3605	1015	96	6.91	0.2	1.545	0.288	0	0	0	375
PL.49753	PL.49754	ABC	336 MCM AC	7.37Y	122.8	0.13	2.22	161.56	31	3452	928	97	2.45	0.1	1.656	0.111	0	0	0	374
PL.49519	PL.49753	ABC	336 MCM AC	7.36Y	122.7	0.06	2.29	161.18	31	3441	920	97	1.19	0.0	1.710	0.054	0	0	0	373
PL.49318	PL.49519	A	#4 ACSR	7.36Y	122.7	0.00	2.29	6.39	5	46	11	97	0.00	0.0	1.721	0.011	46	11	1	1
PL.49518	PL.49519	ABC	336 MCM AC	7.35Y	122.5	0.21	2.49	159.05	31	3394	907	97	3.81	0.1	1.889	0.179	0	0	0	372
PL.50060	PL.49518	C	#2 ACSR	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	1.917	0.028	0	0	0	0
PL.49620	PL.49518	A	#2 ACSR	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	1.890	0.001	0	0	0	1
PD.7708	PL.49620	A	60QA	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	1.890	0.001	0	0	0	1
PL.49621	PD.7708	A	#2 ACSR	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	1.905	0.015	0	0	1	1
PL.49619	PL.49518	ABC	336 MCM AC	7.35Y	122.5	0.05	2.55	159.05	31	3390	898	97	0.98	0.0	1.935	0.046	0	0	0	371
PL.49617	PL.49619	A	#2 ACSR	7.35Y	122.5	0.00	2.55	1.51	1	11	3	96	0.00	0.0	1.935	0.001	0	0	0	1
PD.7689	PL.49617	A	60QA	7.35Y	122.5	0.00	2.55	1.51	3	11	3	96	0.00	0.0	1.935	0.001	0	0	0	1
PL.49618	PD.7689	A	#2 ACSR	7.35Y	122.5	0.00	2.55	1.51	1	11	3	96	0.00	0.0	1.957	0.022	11	3	1	1
PL.49616	PL.49619	ABC	336 MCM AC	7.34Y	122.4	0.10	2.65	158.55	31	3379	893	97	1.83	0.1	2.022	0.087	20	5	1	370
PL.49614	PL.49616	C	#2 ACSR	7.34Y	122.4	0.00	2.65	3.59	2	26	6	97	0.00	0.0	2.025	0.004	0	0	0	2
PD.7669	PL.49614	C	60QA	7.34Y	122.4	0.00	2.65	3.59	6	26	6	97	0.00	0.0	2.025	0.004	0	0	0	2
PL.49615	PD.7669	C	#2 ACSR	7.34Y	122.3	0.00	2.65	3.59	2	26	6	97	0.00	0.0	2.070	0.044	14	3	1	2
PL.63672	PL.49615	C	#2 ACSR	7.34Y	122.3	0.00	2.65	1.65	1	12	3	97	0.00	0.0	2.092	0.023	0	0	0	1
PL.63945	PL.63672	C	#1/0 ACSR	7.34Y	122.3	0.00	2.65	1.65	1	12	3	97	0.00	0.0	2.113	0.021	12	3	1	1
PL.63673	PL.63672	C	#2 ACSR	7.34Y	122.3	0.00	2.65	0.00	0	0	0	100	0.00	0.0	2.643	0.550	0	0	0	0
PL.50400	PL.49616	ABC	336 MCM AC	7.33Y	122.2	0.17	2.82	156.42	30	3331	878	97	3.10	0.1	2.172	0.151	0	0	0	367
PL.50401	PL.50400	ABC	336 MCM AC	7.33Y	122.1	0.06	2.88	155.49	30	3308	866	97	1.12	0.0	2.227	0.055	0	0	0	366
PL.50397	PL.50401	ABC	336 MCM AC	7.32Y	122.0	0.07	2.95	153.68	30	3268	854	97	1.22	0.0	2.288	0.061	0	0	0	363
PL.50396	PL.50397	ABC	336 MCM AC	7.32Y	122.0	0.05	3.00	153.68	30	3267	851	97	0.93	0.0	2.335	0.047	0	0	0	363
PL.49782	PL.50396	A	1/0 AL URD	7.32Y	122.0	0.00	3.01	3.64	2	26	6	97	0.00	0.0	2.387	0.052	26	6	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: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.52513	PL.50396	ABC	336 MCM AC	7.32Y	122.0	0.00	3.01	152.47	29	3240	843	97	0.04	0.0	2.337	0.002	0	0	0	362
PL.52514	PL.52513	ABC	336 MCM AC	7.31Y	121.9	0.13	3.13	152.47	29	3240	843	97	2.23	0.1	2.451	0.114	0	0	0	362
PL.52510	PL.52514	ABC	336 MCM AC	7.30Y	121.7	0.14	3.27	134.99	26	2865	749	97	2.16	0.1	2.592	0.141	0	0	0	328
PL.49979	PL.52510	ABC	336 MCM AC	7.30Y	121.7	0.05	3.32	129.66	25	2749	717	97	0.71	0.0	2.642	0.050	0	0	0	318
PL.49742	PL.49979	A	#1/0 ACSR	7.30Y	121.7	0.00	3.32	4.19	2	30	7	97	0.00	0.0	2.685	0.044	16	4	1	2
PL.49746	PL.49742	A	#1/0 ACSR	7.30Y	121.7	0.00	3.32	1.87	1	13	3	97	0.00	0.0	2.786	0.101	0	0	0	1
PL.50153	PL.49746	A	#1/0 ACSR	7.30Y	121.7	0.00	3.32	0.00	0	0	0	100	0.00	0.0	2.832	0.047	0	0	0	0
PL.50120	PL.49746	A	#1/0 ACSR	7.30Y	121.7	0.00	3.32	1.87	1	13	3	97	0.00	0.0	2.809	0.023	13	3	1	1
PL.50157	PL.49979	ABC	336 MCM AC	7.27Y	121.2	0.44	3.76	128.26	25	2719	709	97	6.54	0.2	3.114	0.472	0	0	0	316
PL.50158	PL.50157	A	6 A (CWC)	7.27Y	121.2	0.00	3.76	1.34	1	10	2	98	0.00	0.0	3.115	0.001	0	0	0	1
PD.7709	PL.50158	A	60QA	7.27Y	121.2	0.00	3.76	1.34	2	10	2	98	0.00	0.0	3.115	0.001	0	0	0	1
PL.50426	PD.7709	A	6 A (CWC)	7.27Y	121.2	0.01	3.77	1.34	1	10	2	98	0.00	0.0	3.342	0.227	0	0	0	1
PL.50427	PL.50426	A	6 A (CWC)	7.27Y	121.2	0.00	3.77	1.34	1	10	2	98	0.00	0.0	3.453	0.110	10	2	1	1
PL.50372	PL.50157	ABC	336 MCM AC	7.25Y	120.8	0.44	4.19	127.82	25	2702	691	97	6.51	0.2	3.587	0.473	3	1	2	315
PL.50373	PL.50372	ABC	336 MCM AC	7.25Y	120.8	0.05	4.24	127.66	25	2693	675	97	0.75	0.0	3.642	0.055	0	0	0	313
PL.50370	PL.50373	ABC	336 MCM AC	7.25Y	120.8	0.00	4.25	127.66	25	2692	673	97	0.07	0.0	3.647	0.005	0	0	0	313
RG.53	PL.50370	ABC	167Kkva	7.48Y	124.6	-3.90	0.35	127.66	58	2692	673	97	percent Boost= 3.12 Tap= 5.0							313
PL.50371	RG.53	ABC	336 MCM AC	7.48Y	124.6	0.05	0.40	123.67	24	2692	673	97	0.71	0.0	3.702	0.055	0	0	0	313
PL.50374	PL.50371	ABC	#1/0 ACSR	7.48Y	124.6	0.00	0.41	61.24	27	1332	333	97	0.03	0.0	3.705	0.003	0	0	0	140
PD.7723	PL.50374	ABC	100L	7.48Y	124.6	0.00	0.41	61.24	61	1332	333	97	0.00	0.0	3.705	0.003	0	0	0	140
PL.50375	PD.7723	ABC	#1/0 ACSR	7.47Y	124.5	0.12	0.52	61.24	27	1332	333	97	1.06	0.1	3.811	0.106	0	0	0	140
PL.50981	PL.50375	ABC	#1/0 ACSR	7.46Y	124.4	0.10	0.62	61.24	27	1331	332	97	0.90	0.1	3.901	0.090	0	0	0	140
PL.50982	PL.50981	C	#4 ACSR	7.46Y	124.4	0.00	0.62	1.73	1	13	3	97	0.00	0.0	3.901	0.001	0	0	0	1
PD.7706	PL.50982	C	40QA	7.46Y	124.4	0.00	0.62	1.73	4	13	3	97	0.00	0.0	3.901	0.001	0	0	0	1
PL.50983	PD.7706	C	#4 ACSR	7.46Y	124.4	0.00	0.62	1.73	1	13	3	97	0.00	0.0	3.965	0.064	13	3	1	1
PL.50984	PL.50981	ABC	#1/0 ACSR	7.46Y	124.3	0.04	0.66	60.67	26	1318	328	97	0.38	0.0	3.939	0.038	0	0	0	139
PL.50985	PL.50984	A	6 A (CWC)	7.46Y	124.3	0.00	0.66	0.86	1	6	1	99	0.00	0.0	3.944	0.005	0	0	0	2
PD.7688	PL.50985	A	40QA	7.46Y	124.3	0.00	0.66	0.86	2	6	1	99	0.00	0.0	3.944	0.005	0	0	0	2
PL.50986	PD.7688	A	6 A (CWC)	7.46Y	124.3	0.00	0.66	0.86	1	6	1	99	0.00	0.0	3.999	0.055	6	1	2	2
PL.50987	PL.50984	ABC	#1/0 ACSR	7.46Y	124.3	0.07	0.73	60.10	26	1305	325	97	0.62	0.0	4.004	0.065	0	0	0	136
PL.50988	PL.50987	ABC	#1/0 ACSR	7.45Y	124.1	0.15	0.88	60.10	26	1305	325	97	1.36	0.1	4.147	0.143	25	6	1	136

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: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50989	PL.50988	ABC	#1/0 ACSR	7.44Y	124.0	0.13	1.01	58.95	26	1278	317	97	1.13	0.1	4.269	0.123	4	1	1	135
PL.50990	PL.50989	ABC	#1/0 ACSR	7.43Y	123.9	0.08	1.09	58.76	26	1273	315	97	0.72	0.1	4.348	0.078	0	0	0	134
PL.50991	PL.50990	ABC	#1/0 ACSR	7.43Y	123.8	0.09	1.18	58.76	26	1272	315	97	0.78	0.1	4.432	0.084	0	0	0	134
PL.57661	PL.50991	ABC	#1/0 ACSR	7.42Y	123.7	0.09	1.27	58.12	25	1258	311	97	0.76	0.1	4.517	0.085	4	1	1	131
PL.57662	PL.57661	ABC	#1/0 ACSR	7.42Y	123.6	0.15	1.42	57.92	25	1252	309	97	1.30	0.1	4.663	0.146	0	0	0	130
PL.50995	PL.57662	ABC	#1/0 ACSR	7.42Y	123.6	0.00	1.42	57.92	25	1251	308	97	0.00	0.0	4.663	0.000	0	0	0	130
PL.50996	PL.50995	ABC	#1/0 ACSR	7.41Y	123.6	0.01	1.42	57.92	25	1251	308	97	0.06	0.0	4.670	0.007	0	0	0	130
PL.50994	PL.50996	ABC	#1/0 ACSR	7.41Y	123.5	0.07	1.49	52.90	23	1142	282	97	0.57	0.0	4.746	0.077	0	0	0	118
PL.57964	PL.50994	ABC	#1/0 ACSR	7.38Y	123.0	0.48	1.98	52.90	23	1142	281	97	3.83	0.3	5.265	0.519	14	3	1	118
PL.60873	PL.57964	ABC	#1/0 ACSR	7.38Y	122.9	0.10	2.08	46.17	20	993	243	97	0.67	0.1	5.383	0.118	2	1	1	109
PL.60874	PL.60873	ABC	#1/0 ACSR	7.33Y	122.2	0.68	2.76	46.04	20	990	241	97	4.73	0.5	6.221	0.838	0	0	0	108
PL.52776	PL.60874	ABC	#1/0 ACSR	7.33Y	122.2	0.06	2.82	46.04	20	985	237	97	0.40	0.0	6.293	0.072	0	0	0	108
PL.57944	PL.52776	ABC	#1/0 ACSR	7.33Y	122.2	0.03	2.85	46.04	20	985	236	97	0.21	0.0	6.330	0.037	21	5	1	108
PL.57943	PL.57944	ABC	#1/0 ACSR	7.33Y	122.1	0.04	2.88	45.07	20	964	231	97	0.26	0.0	6.377	0.047	0	0	0	107
PL.49826	PL.57943	A	6 A (CWC)	7.33Y	122.1	0.01	2.89	5.66	4	40	10	97	0.00	0.0	6.421	0.044	31	7	2	3
PL.49827	PL.49826	A	6 A (CWC)	7.33Y	122.1	0.00	2.89	1.37	1	10	2	98	0.00	0.0	6.464	0.043	10	2	1	1
PL.50973	PL.57943	ABC	#1/0 ACSR	7.32Y	122.0	0.07	2.95	43.18	19	923	222	97	0.43	0.0	6.463	0.086	0	0	0	104
PL.50974	PL.50973	ABC	#1/0 ACSR	7.31Y	121.9	0.17	3.12	43.18	19	923	221	97	1.09	0.1	6.687	0.225	22	5	3	104
PL.48540	PL.50974	C	6 A (CWC)	7.31Y	121.9	0.01	3.13	23.49	17	167	40	97	0.01	0.0	6.693	0.006	0	0	0	16
PD.7613	PL.48540	C	40QA	7.31Y	121.9	0.00	3.13	23.49	59	167	40	97	0.00	0.0	6.693	0.006	0	0	0	16
PL.48541	PD.7613	C	6 A (CWC)	7.31Y	121.8	0.06	3.19	23.49	17	167	40	97	0.07	0.0	6.760	0.067	35	8	3	16
PL.50350	PL.48541	C	6 A (CWC)	7.31Y	121.8	0.03	3.22	18.55	13	132	31	97	0.03	0.0	6.802	0.042	33	8	4	13
PL.50351	PL.50350	C	6 A (CWC)	7.31Y	121.8	0.02	3.24	13.84	10	98	23	97	0.01	0.0	6.840	0.037	18	4	1	9
PL.50352	PL.50351	C	6 A (CWC)	7.31Y	121.8	0.01	3.25	6.62	5	47	11	97	0.00	0.0	6.862	0.023	16	4	1	4
PL.50353	PL.50352	C	6 A (CWC)	7.30Y	121.7	0.02	3.26	4.43	3	32	7	98	0.00	0.0	6.967	0.104	16	4	2	3
PL.50354	PL.50353	C	6 A (CWC)	7.30Y	121.7	0.00	3.27	2.24	2	16	4	97	0.00	0.0	7.063	0.097	16	4	1	1
PL.50311	PL.50351	C	6 A (CWC)	7.31Y	121.8	0.01	3.25	4.68	3	33	8	97	0.00	0.0	6.891	0.051	33	8	4	4
PL.50355	PL.50974	ABC	#1/0 ACSR	7.31Y	121.9	0.03	3.15	29.65	13	632	152	97	0.13	0.0	6.743	0.056	14	3	1	75
PL.50356	PL.50355	ABC	#1/0 ACSR	7.31Y	121.8	0.04	3.19	28.73	12	613	147	97	0.17	0.0	6.825	0.081	19	4	1	72
PL.50362	PL.50356	C	#4 ACSR	7.31Y	121.8	0.00	3.19	1.34	1	10	2	98	0.00	0.0	6.826	0.001	0	0	0	1
PD.7646	PL.50362	C	40QA	7.31Y	121.8	0.00	3.19	1.34	3	10	2	98	0.00	0.0	6.826	0.001	0	0	0	1

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50363	PD.7646	C	#4 ACSR	7.31Y	121.8	0.00	3.19	1.34	1	10	2	98	0.00	0.0	6.851	0.024	10	2	1	1
PL.50357	PL.50356	ABC	#1/0 ACSR	7.31Y	121.8	0.04	3.23	27.39	12	584	140	97	0.16	0.0	6.906	0.081	15	4	3	70
PL.50358	PL.50357	ABC	#1/0 ACSR	7.30Y	121.7	0.05	3.28	26.67	12	568	136	97	0.20	0.0	7.009	0.104	5	1	1	67
PL.50359	PL.50358	ABC	#1/0 ACSR	7.30Y	121.7	0.04	3.32	26.43	11	563	135	97	0.17	0.0	7.102	0.093	18	4	1	66
PL.49795	PL.50359	ABC	#1/0 ACSR	7.30Y	121.7	0.02	3.34	25.60	11	545	130	97	0.07	0.0	7.141	0.039	0	0	0	65
PL.49796	PL.49795	ABC	#1/0 ACSR	7.30Y	121.6	0.01	3.35	25.14	11	535	128	97	0.05	0.0	7.170	0.029	0	0	0	64
PL.49797	PL.49796	C	#4 ACSR	7.30Y	121.6	0.00	3.35	2.52	2	18	4	98	0.00	0.0	7.174	0.003	0	0	0	4
PD.7647	PL.49797	C	40QA	7.30Y	121.6	0.00	3.35	2.52	6	18	4	98	0.00	0.0	7.174	0.003	0	0	0	4
PL.60880	PD.7647	C	#4 ACSR	7.30Y	121.6	0.00	3.35	2.52	2	18	4	98	0.00	0.0	7.185	0.011	0	0	1	4
PL.60881	PL.60880	C	#4 ACSR	7.30Y	121.6	0.01	3.36	2.52	2	18	4	98	0.00	0.0	7.337	0.152	8	2	1	3
PL.57835	PL.60881	C	#4 ACSR	7.30Y	121.6	0.00	3.37	1.34	1	10	2	98	0.00	0.0	7.446	0.108	9	2	1	2
PL.49798	PL.57835	C	#4 ACSR	7.30Y	121.6	0.00	3.37	0.09	0	1	0	100	0.00	0.0	7.495	0.049	1	0	1	1
PL.49799	PL.49796	ABC	#1/0 ACSR	7.30Y	121.6	0.03	3.38	24.30	11	517	124	97	0.11	0.0	7.242	0.072	18	4	3	60
PL.49802	PL.49799	ABC	#1/0 ACSR	7.29Y	121.6	0.04	3.42	22.91	10	488	117	97	0.15	0.0	7.350	0.108	0	0	0	56
PL.49803	PL.49802	ABC	#1/0 ACSR	7.29Y	121.5	0.04	3.46	22.91	10	488	117	97	0.12	0.0	7.442	0.092	58	14	4	56
PL.49804	PL.49803	ABC	#1/0 ACSR	7.29Y	121.5	0.01	3.47	20.18	9	429	103	97	0.03	0.0	7.476	0.034	30	7	2	52
PL.51011	PL.49804	C	6 A (CWC)	7.29Y	121.5	0.00	3.47	1.81	1	13	3	97	0.00	0.0	7.476	0.000	0	0	0	3
PD.7678	PL.51011	C	40QA	7.29Y	121.5	0.00	3.47	1.81	5	13	3	97	0.00	0.0	7.476	0.000	0	0	0	3
PL.51012	PD.7678	C	6 A (CWC)	7.29Y	121.5	0.00	3.47	1.81	1	13	3	97	0.00	0.0	7.514	0.038	11	3	2	3
PL.51010	PL.51012	C	6 A (CWC)	7.29Y	121.5	0.00	3.47	0.31	0	2	1	89	0.00	0.0	7.561	0.047	2	1	1	1
PL.49805	PL.49804	ABC	#1/0 ACSR	7.29Y	121.5	0.05	3.52	18.18	8	387	93	97	0.13	0.0	7.628	0.152	0	0	0	47
PL.51013	PL.49805	A	6 A (CWC)	7.29Y	121.5	0.01	3.53	44.86	32	318	76	97	0.02	0.0	7.633	0.005	0	0	0	39
PD.7718	PL.51013	A	70L	7.29Y	121.5	0.00	3.53	44.86	64	318	76	97	0.00	0.0	7.633	0.005	0	0	0	39
PL.51014	PD.7718	A	6 A (CWC)	7.28Y	121.3	0.18	3.71	44.86	32	318	76	97	0.43	0.1	7.722	0.089	0	0	0	39
PL.51015	PL.51014	A	6 A (CWC)	7.27Y	121.2	0.10	3.81	40.58	29	287	69	97	0.20	0.1	7.778	0.056	34	8	3	37
PL.51016	PL.51015	A	6 A (CWC)	7.26Y	121.1	0.13	3.94	35.84	26	253	61	97	0.25	0.1	7.859	0.081	0	0	0	34
PL.51017	PL.51016	A	6 A (CWC)	7.26Y	121.1	0.01	3.94	29.65	21	209	50	97	0.01	0.0	7.863	0.004	0	0	0	28
PD.7712	PL.51017	A	40QA	7.26Y	121.1	0.00	3.94	29.65	74	209	50	97	0.00	0.0	7.863	0.004	0	0	0	28
PL.51018	PD.7712	A	6 A (CWC)	7.25Y	120.8	0.26	4.21	29.65	21	209	50	97	0.42	0.2	8.058	0.195	0	0	0	28
PL.51027	PL.51018	A	6 A (CWC)	7.25Y	120.8	0.01	4.21	7.00	5	49	12	97	0.00	0.0	8.085	0.027	0	0	0	5
PD.7616	PL.51027	A	25QA	7.25Y	120.8	0.00	4.21	7.00	28	49	12	97	0.00	0.0	8.085	0.027	0	0	0	5

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.51028	PD.7616	A	6 A (CWC)	7.25Y	120.8	0.02	4.23	7.00	5	49	12	97	0.01	0.0	8.139	0.054	0	0	0	5
PL.50094	PL.51028	A	#4 ACSR	7.25Y	120.8	0.00	4.23	2.49	2	18	4	98	0.00	0.0	8.191	0.052	18	4	2	2
PL.51029	PL.51028	A	6 A (CWC)	7.25Y	120.8	0.02	4.25	4.50	3	32	8	97	0.00	0.0	8.214	0.074	0	0	0	3
PL.51030	PL.51029	A	6 A (CWC)	7.24Y	120.7	0.02	4.26	4.50	3	32	8	97	0.00	0.0	8.290	0.077	0	0	0	3
PL.63811	PL.51030	A	#1/0 ACSR	7.24Y	120.7	0.00	4.27	2.98	1	21	5	97	0.00	0.0	8.350	0.059	0	0	0	2
PL.63813	PL.63811	A	1/0 AL URD	7.24Y	120.7	0.01	4.27	2.98	2	21	5	97	0.00	0.0	8.518	0.169	21	5	2	2
PL.63812	PL.63811	A	#1/0 ACSR	7.24Y	120.7	0.00	4.27	0.00	0	0	0	100	0.00	0.0	8.388	0.039	0	0	0	0
PL.51031	PL.51030	A	6 A (CWC)	7.24Y	120.7	0.00	4.26	1.53	1	11	3	96	0.00	0.0	8.294	0.003	0	0	0	1
PD.7645	PL.51031	A	10QA	7.24Y	120.7	0.00	4.26	1.53	0	11	3	96	0.00	0.0	8.294	0.003	0	0	0	1
PL.51032	PD.7645	A	6 A (CWC)	7.24Y	120.7	0.00	4.27	1.53	1	11	3	96	0.00	0.0	8.381	0.087	11	3	1	1
PL.50837	PL.51018	A	6 A (CWC)	7.24Y	120.6	0.18	4.38	22.65	16	160	38	97	0.21	0.1	8.241	0.183	16	4	1	23
PL.50838	PL.50837	A	6 A (CWC)	7.23Y	120.5	0.07	4.46	20.37	15	143	34	97	0.08	0.1	8.325	0.084	18	4	1	22
PL.50673	PL.50838	A	6 A (CWC)	7.23Y	120.5	0.08	4.54	17.82	13	125	30	97	0.08	0.1	8.430	0.104	0	0	0	21
PL.50674	PL.50673	A	6 A (CWC)	7.22Y	120.4	0.07	4.61	17.82	13	125	30	97	0.07	0.1	8.514	0.084	0	0	0	21
PL.50675	PL.50674	A	6 A (CWC)	7.22Y	120.3	0.07	4.67	17.82	13	125	30	97	0.06	0.1	8.596	0.082	0	0	0	21
PL.57658	PL.50675	A	6 A (CWC)	7.22Y	120.3	0.05	4.72	17.44	12	122	29	97	0.05	0.0	8.657	0.061	0	0	0	20
PL.62716	PL.57658	A	6 A (CWC)	7.21Y	120.1	0.17	4.89	17.44	12	122	29	97	0.15	0.1	8.880	0.223	12	3	2	20
PL.62717	PL.62716	A	6 A (CWC)	7.20Y	120.0	0.10	4.99	15.66	11	110	26	97	0.08	0.1	9.018	0.138	2	1	1	18
PL.60882	PL.62717	A	6 A (CWC)	7.20Y	120.0	0.05	5.04	15.31	11	107	25	97	0.04	0.0	9.089	0.070	0	0	0	17
PL.50682	PL.60882	A	#4 ACSR	7.20Y	120.0	0.00	5.04	13.78	11	96	23	97	0.00	0.0	9.096	0.007	0	0	0	15
PD.7700	PL.50682	A	20T	7.20Y	120.0	0.00	5.04	13.78	0	96	23	97	0.00	0.0	9.096	0.007	0	0	0	15
PL.50683	PD.7700	A	#4 ACSR	7.19Y	119.8	0.12	5.16	13.78	11	96	23	97	0.09	0.1	9.292	0.197	0	0	0	15
PL.50684	PL.50683	A	#4 ACSR	7.19Y	119.8	0.03	5.19	10.68	8	75	18	97	0.02	0.0	9.362	0.070	0	0	0	13
PL.49902	PL.50684	A	#4 ACSR	7.18Y	119.7	0.08	5.27	10.68	8	75	18	97	0.05	0.1	9.533	0.171	0	0	0	13
PL.50381	PL.49902	A	#4 ACSR	7.18Y	119.7	0.01	5.29	9.99	8	70	17	97	0.01	0.0	9.561	0.028	0	0	0	12
PL.49906	PL.50381	A	#4 ACSR	7.18Y	119.6	0.07	5.35	9.99	8	70	17	97	0.04	0.1	9.730	0.169	11	2	1	12
PL.49907	PL.49906	A	#4 ACSR	7.18Y	119.6	0.02	5.38	8.48	7	59	14	97	0.01	0.0	9.787	0.057	0	0	0	11
PL.49908	PL.49907	A	#4 ACSR	7.17Y	119.6	0.04	5.42	7.86	6	55	13	97	0.02	0.0	9.913	0.127	0	0	0	10
PL.49994	PL.49908	A	#4 ACSR	7.17Y	119.6	0.00	5.42	0.43	0	3	1	95	0.00	0.0	9.991	0.078	3	1	1	1
PL.49909	PL.49908	A	#4 ACSR	7.17Y	119.5	0.08	5.50	7.43	6	52	12	97	0.03	0.1	10.157	0.243	0	0	0	9
PL.49910	PL.49909	A	#4 ACSR	7.16Y	119.4	0.09	5.59	6.55	5	46	11	97	0.03	0.1	10.495	0.338	4	1	1	8

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.49911	PL.49910	A	#4 ACSR	7.16Y	119.3	0.07	5.67	5.97	5	42	10	97	0.02	0.1	10.777	0.282	0	0	0	7
PL.50686	PL.49911	A	#4 ACSR	7.16Y	119.3	0.00	5.67	3.36	3	23	6	97	0.00	0.0	10.792	0.016	0	0	0	4
PD.7652	PL.50686	A	25QA	7.16Y	119.3	0.00	5.67	3.36	13	23	6	97	0.00	0.0	10.792	0.016	0	0	0	4
PL.50687	PD.7652	A	#4 ACSR	7.15Y	119.2	0.18	5.84	3.36	3	23	6	97	0.03	0.1	11.978	1.185	0	0	0	4
PL.49912	PL.50687	A	#4 ACSR	7.15Y	119.1	0.05	5.90	3.36	3	23	6	97	0.01	0.0	12.348	0.370	0	0	0	4
PL.50092	PL.49912	A	#2 ACSR	7.15Y	119.1	0.00	5.90	0.00	0	0	0	100	0.00	0.0	12.466	0.119	0	0	0	0
PL.49913	PL.49912	A	#4 ACSR	7.15Y	119.1	0.00	5.90	1.09	1	8	2	97	0.00	0.0	12.427	0.079	2	1	1	3
PL.49914	PL.49913	A	#4 ACSR	7.15Y	119.1	0.00	5.90	0.74	1	5	1	98	0.00	0.0	12.499	0.071	5	1	2	2
PL.49974	PL.49912	A	#4 ACSR	7.15Y	119.1	0.00	5.90	2.27	2	16	4	97	0.00	0.0	12.416	0.068	16	4	1	1
PL.50091	PL.49911	A	#4 ACSR	7.16Y	119.3	0.00	5.67	2.62	2	18	4	98	0.00	0.0	10.812	0.035	13	3	1	3
PL.64695	PL.50091	A	#1/0 ACSR	7.16Y	119.3	0.00	5.67	0.78	0	5	1	98	0.00	0.0	10.870	0.059	5	1	2	2
PL.49973	PL.49909	A	#4 ACSR	7.17Y	119.5	0.00	5.50	0.88	1	6	1	99	0.00	0.0	10.220	0.064	6	1	1	1
PL.50090	PL.49907	A	#4 ACSR	7.18Y	119.6	0.00	5.38	0.62	0	4	1	97	0.00	0.0	9.846	0.059	4	1	1	1
PL.49905	PL.49902	A	#4 ACSR	7.18Y	119.7	0.00	5.27	0.69	1	5	1	98	0.00	0.0	9.577	0.044	0	0	0	1
PL.50688	PL.49905	A	#4 ACSR	7.18Y	119.7	0.00	5.28	0.69	1	5	1	98	0.00	0.0	9.605	0.028	0	0	0	1
PL.50049	PL.50688	A	#4 ACSR	7.18Y	119.7	0.00	5.28	0.00	0	0	0	100	0.00	0.0	9.654	0.049	0	0	0	0
PL.50689	PL.50688	A	#4 ACSR	7.18Y	119.7	0.00	5.28	0.69	1	5	1	98	0.00	0.0	9.652	0.047	5	1	1	1
PL.50690	PL.50689	A	#4 ACSR	7.18Y	119.7	0.00	5.28	0.00	0	0	0	100	0.00	0.0	9.825	0.174	0	0	0	0
PL.49903	PL.50683	A	#4 ACSR	7.19Y	119.8	0.02	5.17	3.10	2	22	5	98	0.00	0.0	9.426	0.134	8	2	1	2
PL.49904	PL.49903	A	#4 ACSR	7.19Y	119.8	0.00	5.18	2.01	2	14	3	98	0.00	0.0	9.479	0.053	14	3	1	1
PL.50237	PL.60882	A	#4 ACSR	7.20Y	120.0	0.00	5.04	1.53	1	11	3	96	0.00	0.0	9.094	0.005	0	0	0	2
PD.7651	PL.50237	A	25QA	7.20Y	120.0	0.00	5.04	1.53	6	11	3	96	0.00	0.0	9.094	0.005	0	0	0	2
PL.50677	PD.7651	A	#4 ACSR	7.20Y	120.0	0.00	5.04	1.53	1	11	3	96	0.00	0.0	9.131	0.037	0	0	0	2
PL.50236	PL.50677	A	#4 ACSR	7.20Y	120.0	0.01	5.04	1.53	1	11	3	96	0.00	0.0	9.222	0.091	0	0	0	2
PL.50678	PL.50236	A	#4 ACSR	7.20Y	120.0	0.00	5.05	1.53	1	11	3	96	0.00	0.0	9.325	0.103	9	2	1	2
PL.50679	PL.50678	A	#4 ACSR	7.20Y	120.0	0.00	5.05	0.25	0	2	0	100	0.00	0.0	9.353	0.028	0	0	0	1
PL.51805	PL.50679	A	#4 ACSR	7.20Y	119.9	0.00	5.05	0.25	0	2	0	100	0.00	0.0	9.708	0.356	0	0	0	1
PL.51853	PL.51805	A	#4 ACSR	7.20Y	119.9	0.00	5.06	0.25	0	2	0	100	0.00	0.0	10.006	0.297	0	0	0	1
PL.51852	PL.51853	A	6 A (CWC)	7.20Y	119.9	0.00	5.06	0.00	0	0	0	100	0.00	0.0	10.157	0.151	0	0	0	0
PL.51854	PL.51853	A	#4 ACSR	7.20Y	119.9	0.00	5.06	0.25	0	2	0	100	0.00	0.0	10.266	0.260	0	0	0	1
PL.51807	PL.51854	A	#4 ACSR	7.20Y	119.9	0.00	5.06	0.00	0	0	0	100	0.00	0.0	10.573	0.307	0	0	0	0

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50681	PL.51807	A	#4 ACSR	7.20Y	119.9	0.00	5.06	0.00	0	0	0	100	0.00	0.0	10.782	0.209	0	0	0	0
PL.49694	PL.51807	A	#2 ACSR	7.20Y	119.9	0.00	5.06	0.00	0	0	0	100	0.00	0.0	10.676	0.103	0	0	0	0
PL.51806	PL.51854	A	#4 ACSR	7.20Y	119.9	0.00	5.06	0.25	0	2	0	100	0.00	0.0	10.342	0.076	0	0	0	1
PL.50680	PL.51806	A	#4 ACSR	7.20Y	119.9	0.00	5.06	0.25	0	2	0	100	0.00	0.0	10.376	0.033	2	0	1	1
PL.50676	PL.50675	A	6 A (CWC)	7.22Y	120.3	0.00	4.68	0.38	0	3	1	95	0.00	0.0	8.645	0.049	3	1	1	1
PL.60790	PL.50676	A	6 A (CWC)	7.22Y	120.3	0.00	4.68	0.00	0	0	0	100	0.00	0.0	8.725	0.080	0	0	0	0
PL.51026	PL.51016	A	6 A (CWC)	7.26Y	121.0	0.04	3.98	6.19	4	44	10	98	0.01	0.0	8.020	0.161	0	0	0	6
PL.51025	PL.51026	A	6 A (CWC)	7.25Y	120.9	0.11	4.10	6.19	4	44	10	98	0.04	0.1	8.425	0.405	0	0	0	6
PL.49319	PL.51025	A	#4 ACSR	7.25Y	120.9	0.00	4.10	0.90	1	6	2	95	0.00	0.0	8.497	0.072	6	2	2	2
PL.51019	PL.51025	A	6 A (CWC)	7.25Y	120.9	0.03	4.12	5.29	4	37	9	97	0.01	0.0	8.537	0.112	0	0	0	4
PL.63908	PL.51019	A	6 A (CWC)	7.25Y	120.8	0.05	4.17	5.29	4	37	9	97	0.01	0.0	8.781	0.244	16	4	1	4
PL.63909	PL.63908	A	6 A (CWC)	7.25Y	120.8	0.01	4.18	3.08	2	22	5	98	0.00	0.0	8.872	0.092	0	0	0	3
PL.51020	PL.63909	A	6 A (CWC)	7.25Y	120.8	0.02	4.20	3.08	2	22	5	98	0.00	0.0	9.036	0.164	8	2	2	3
PL.51023	PL.51020	A	6 A (CWC)	7.25Y	120.8	0.00	4.21	1.92	1	14	3	98	0.00	0.0	9.128	0.092	14	3	1	1
PL.51024	PL.51023	A	6 A (CWC)	7.25Y	120.8	0.00	4.21	0.00	0	0	0	100	0.00	0.0	9.212	0.084	0	0	0	0
PL.50057	PL.51019	A	#4 ACSR	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	8.583	0.046	0	0	0	0
PL.50051	PL.51014	A	#4 ACSR	7.28Y	121.3	0.00	3.71	4.28	3	30	7	97	0.00	0.0	7.759	0.037	30	7	2	2
PL.51825	PL.49805	C	#4 ACSR	7.29Y	121.5	0.02	3.54	9.69	7	69	16	97	0.01	0.0	7.688	0.060	34	8	2	8
PL.51826	PL.51825	C	#4 ACSR	7.29Y	121.5	0.00	3.54	4.90	4	35	8	97	0.00	0.0	7.689	0.001	0	0	0	6
PD.7936	PL.51826	C	100CodeSMo	7.29Y	121.5	0.00	3.54	4.90	0	35	8	97	0.00	0.0	7.689	0.001	0	0	0	6
PL.51827	PD.7936	C	#4 ACSR	7.28Y	121.3	0.11	3.65	4.90	4	35	8	97	0.03	0.1	8.223	0.533	0	0	2	6
PL.50123	PL.51827	C	#4 ACSR	7.27Y	121.2	0.14	3.79	4.85	4	34	8	97	0.04	0.1	8.874	0.651	0	0	0	4
PL.50226	PL.50123	C	#4 ACSR	7.27Y	121.2	0.00	3.79	0.00	0	0	0	100	0.00	0.0	8.919	0.046	0	0	0	0
PL.50124	PL.50123	C	#4 ACSR	7.27Y	121.1	0.09	3.88	4.85	4	34	8	97	0.02	0.1	9.368	0.494	10	2	1	4
PL.51021	PL.50124	C	#4 ACSR	7.26Y	121.1	0.04	3.92	3.37	3	24	6	97	0.01	0.0	9.661	0.293	3	1	1	3
PL.51022	PL.51021	C	#4 ACSR	7.26Y	121.1	0.00	3.92	2.91	2	21	5	97	0.00	0.0	9.662	0.001	0	0	0	2
PL.50322	PL.51022	C	#4 ACSR	7.26Y	121.1	0.01	3.93	2.91	2	21	5	97	0.00	0.0	9.742	0.080	0	0	0	2
PL.57543	PL.50322	C	#4 ACSR	7.26Y	121.1	0.01	3.94	2.91	2	21	5	97	0.00	0.0	9.814	0.071	0	0	0	2
PL.57544	PL.57543	C	#1/0 ACSR	7.26Y	121.1	0.00	3.94	2.91	1	21	5	97	0.00	0.0	9.817	0.003	0	0	0	2
PD.8377	PL.57544	C	15T	7.26Y	121.1	0.00	3.94	2.91	0	21	5	97	0.00	0.0	9.817	0.003	0	0	0	2
PL.57546	PD.8377	C	#1/0 ACSR	7.26Y	121.1	0.00	3.95	2.91	1	21	5	97	0.00	0.0	9.879	0.062	1	0	1	2

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.57545	PL.57546	C	#1/0 ACSR	7.26Y	121.1	0.00	3.95	2.83	1	20	5	97	0.00	0.0	9.914	0.034	0	0	0	1
PL.60344	PL.57545	C	#1/0 ACSR	7.26Y	121.0	0.00	3.95	2.83	1	20	5	97	0.00	0.0	9.967	0.053	20	5	1	1
PL.49800	PL.49799	A	#4 ACSR	7.30Y	121.6	0.00	3.38	1.55	1	11	3	96	0.00	0.0	7.244	0.002	0	0	0	1
PD.7711	PL.49800	A	40QA	7.30Y	121.6	0.00	3.38	1.55	4	11	3	96	0.00	0.0	7.244	0.002	0	0	0	1
PL.49801	PD.7711	A	#4 ACSR	7.30Y	121.6	0.00	3.38	1.55	1	11	3	96	0.00	0.0	7.288	0.044	11	3	1	1
PL.50402	PL.49795	ABC	#1/0 ACSR	7.30Y	121.7	0.00	3.34	0.46	0	10	2	98	0.00	0.0	7.172	0.031	10	2	1	1
PL.50360	PL.50355	C	6 A (CWC)	7.31Y	121.9	0.00	3.15	0.77	1	6	1	99	0.00	0.0	6.745	0.001	0	0	0	2
PD.7695	PL.50360	C	40QA	7.31Y	121.9	0.00	3.15	0.77	2	6	1	99	0.00	0.0	6.745	0.001	0	0	0	2
PL.66145	PD.7695	C	#2 ACSR	7.31Y	121.9	0.00	3.15	0.77	0	6	1	99	0.00	0.0	6.761	0.016	6	1	2	2
PL.57636	PL.50974	C	6 A (CWC)	7.31Y	121.9	0.00	3.12	13.96	10	99	24	97	0.00	0.0	6.692	0.004	0	0	0	10
PD.8391	PL.57636	C	40QA	7.31Y	121.9	0.00	3.12	13.96	35	99	24	97	0.00	0.0	6.692	0.004	0	0	0	10
PL.57637	PD.8391	C	6 A (CWC)	7.31Y	121.9	0.02	3.14	13.96	10	99	24	97	0.02	0.0	6.727	0.035	3	1	1	10
PL.49828	PL.57637	C	6 A (CWC)	7.31Y	121.8	0.02	3.16	13.48	10	96	23	97	0.01	0.0	6.752	0.026	5	1	1	9
PL.49829	PL.49828	C	6 A (CWC)	7.31Y	121.8	0.03	3.19	12.75	9	91	21	97	0.02	0.0	6.810	0.057	37	9	3	8
PL.49831	PL.49829	C	6 A (CWC)	7.31Y	121.8	0.03	3.22	7.09	5	50	12	97	0.01	0.0	6.911	0.102	6	1	1	4
PL.49832	PL.49831	C	6 A (CWC)	7.31Y	121.8	0.01	3.22	6.30	4	45	11	97	0.00	0.0	6.931	0.019	0	0	0	3
PL.49830	PL.49832	C	6 A (CWC)	7.31Y	121.8	0.01	3.23	2.68	2	19	5	97	0.00	0.0	7.021	0.090	19	5	2	2
PL.50310	PL.49832	C	6 A (CWC)	7.31Y	121.8	0.00	3.22	3.61	3	26	6	97	0.00	0.0	6.950	0.020	26	6	1	1
PL.63963	PL.49829	C	6 A (CWC)	7.31Y	121.8	0.00	3.19	0.45	0	3	1	95	0.00	0.0	6.858	0.048	3	1	1	1
PL.63964	PL.63963	C	6 A (CWC)	7.31Y	121.8	0.00	3.19	0.00	0	0	0	100	0.00	0.0	6.877	0.019	0	0	0	0
PL.49609	PL.50973	A	#2 ACSR	7.32Y	122.0	0.00	2.95	0.00	0	0	0	100	0.00	0.0	6.512	0.049	0	0	0	0
CP.89	PL.52776	ABC	Cap (300)	7.33Y	122.2	0.00	2.82	0.00	0	0	0	100	0.00	0.0	6.293	0.049	0	0	0	0
PL.57965	PL.57964	B	#4 ACSR	7.38Y	123.0	0.00	1.98	18.29	14	131	31	97	0.00	0.0	5.267	0.002	0	0	0	8
PD.7614	PL.57965	B	40QA	7.38Y	123.0	0.00	1.98	18.29	46	131	31	97	0.00	0.0	5.267	0.002	0	0	0	8
PL.51003	PD.7614	B	#4 ACSR	7.38Y	123.0	0.03	2.01	18.29	14	131	31	97	0.03	0.0	5.311	0.045	18	4	1	8
PL.51004	PL.51003	B	#4 ACSR	7.38Y	122.9	0.05	2.06	15.77	12	113	27	97	0.04	0.0	5.377	0.065	0	0	0	7
PL.51005	PL.51004	B	#4 ACSR	7.37Y	122.9	0.03	2.09	15.77	12	113	27	97	0.02	0.0	5.421	0.044	15	4	1	7
PL.60331	PL.51005	B	#4 ACSR	7.37Y	122.9	0.01	2.10	13.67	11	98	23	97	0.01	0.0	5.435	0.014	0	0	0	6
PL.60330	PL.60331	B	#4 ACSR	7.37Y	122.9	0.00	2.10	1.60	1	11	3	96	0.00	0.0	5.505	0.070	11	3	1	1
PL.49936	PL.60330	B	#4 ACSR	7.37Y	122.9	0.00	2.10	0.00	0	0	0	100	0.00	0.0	5.619	0.114	0	0	0	0
PL.60329	PL.60331	B	6 A (CWC)	7.37Y	122.9	0.01	2.10	12.07	9	87	20	97	0.00	0.0	5.447	0.012	17	4	1	5

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.51007	PL.60329	B	2 AL URD	7.37Y	122.9	0.00	2.10	6.03	3	43	10	97	0.00	0.0	5.448	0.001	0	0	0	2
PD.7679	PL.51007	B	40QA	7.37Y	122.9	0.00	2.10	6.03	15	43	10	97	0.00	0.0	5.448	0.001	0	0	0	2
PL.50382	PD.7679	B	2 AL URD	7.37Y	122.9	0.01	2.11	6.03	3	43	10	97	0.00	0.0	5.512	0.064	43	10	2	2
PL.50383	PL.50382	B	2 AL URD	7.37Y	122.9	0.00	2.11	0.00	0	0	0	100	0.00	0.0	5.564	0.052	0	0	0	0
PL.51008	PL.60329	B	2 AL URD	7.37Y	122.9	0.00	2.10	3.70	2	27	6	98	0.00	0.0	5.448	0.001	0	0	0	2
PD.7615	PL.51008	B	40QA	7.37Y	122.9	0.00	2.10	3.70	9	27	6	98	0.00	0.0	5.448	0.001	0	0	0	2
PL.51009	PD.7615	B	2 AL URD	7.37Y	122.9	0.00	2.10	3.70	2	27	6	98	0.00	0.0	5.463	0.014	0	0	0	2
PL.51006	PL.51009	B	2 AL URD	7.37Y	122.9	0.01	2.12	3.70	2	27	6	98	0.00	0.0	5.561	0.099	0	0	0	2
PL.49932	PL.51006	B	2 AL URD	7.37Y	122.9	0.01	2.13	3.70	2	27	6	98	0.00	0.0	5.615	0.054	0	0	0	2
PL.49748	PL.49932	B	2 AL URD	7.37Y	122.9	0.01	2.13	3.70	2	27	6	98	0.00	0.0	5.659	0.044	0	0	0	2
PL.49752	PL.49748	B	2 AL URD	7.37Y	122.9	0.00	2.14	3.70	2	27	6	98	0.00	0.0	5.692	0.033	0	0	0	2
PL.49929	PL.49752	B	2 AL URD	7.37Y	122.9	0.01	2.15	3.70	2	27	6	98	0.00	0.0	5.764	0.072	0	0	0	2
PL.50318	PL.49929	B	2 AL URD	7.37Y	122.8	0.01	2.15	3.70	2	27	6	98	0.00	0.0	5.817	0.054	14	3	1	2
PL.50317	PL.50318	B	2 AL URD	7.37Y	122.8	0.00	2.15	1.79	1	13	3	97	0.00	0.0	5.872	0.054	13	3	1	1
PL.50965	PL.50317	B	2 AL URD	7.37Y	122.8	0.00	2.15	0.00	0	0	0	100	0.00	0.0	5.906	0.034	0	0	0	0
PL.46793	PL.50996	B	6 A (CWC)	7.41Y	123.6	0.00	1.43	15.06	11	109	26	97	0.00	0.0	4.675	0.005	0	0	0	12
PD.7644	PL.46793	B	40QA	7.41Y	123.6	0.00	1.43	15.06	38	109	26	97	0.00	0.0	4.675	0.005	0	0	0	12
PL.46794	PD.7644	B	6 A (CWC)	7.41Y	123.5	0.06	1.48	15.06	11	109	26	97	0.05	0.0	4.758	0.083	0	0	0	12
PL.50997	PL.46794	B	6 A (CWC)	7.41Y	123.5	0.05	1.53	15.06	11	109	26	97	0.04	0.0	4.832	0.074	16	4	1	12
PL.63688	PL.50997	B	6 A (CWC)	7.41Y	123.4	0.04	1.57	12.82	9	92	22	97	0.03	0.0	4.894	0.063	0	0	0	11
PL.63690	PL.63688	B	#1/0 ACSR	7.41Y	123.4	0.00	1.57	0.00	0	0	0	100	0.00	0.0	4.927	0.033	0	0	0	0
PL.63691	PL.63690	B	#1/0 ACSR	7.41Y	123.4	0.00	1.57	0.00	0	0	0	100	0.00	0.0	4.967	0.040	0	0	0	0
PL.63689	PL.63688	B	6 A (CWC)	7.40Y	123.4	0.07	1.63	12.82	9	92	22	97	0.05	0.1	5.011	0.116	0	0	1	11
PL.51707	PL.63689	B	6 A (CWC)	7.40Y	123.3	0.03	1.66	6.27	4	45	11	97	0.01	0.0	5.108	0.098	0	0	0	6
PL.51708	PL.51707	B	6 A (CWC)	7.40Y	123.3	0.02	1.68	6.27	4	45	11	97	0.01	0.0	5.176	0.068	0	0	0	6
PL.51709	PL.51708	B	6 A (CWC)	7.40Y	123.3	0.02	1.70	6.27	4	45	11	97	0.01	0.0	5.247	0.071	8	2	2	6
PL.51000	PL.51709	B	6 A (CWC)	7.39Y	123.2	0.12	1.82	5.20	4	37	9	97	0.03	0.1	5.778	0.531	0	0	0	4
PL.49777	PL.51000	B	#4 ACSR	7.39Y	123.2	0.00	1.82	0.70	1	5	1	98	0.00	0.0	5.875	0.098	5	1	1	1
PL.51001	PL.51000	B	6 A (CWC)	7.39Y	123.2	0.00	1.83	4.50	3	32	8	97	0.00	0.0	5.806	0.028	14	3	2	3
PL.51002	PL.51001	B	6 A (CWC)	7.39Y	123.2	0.00	1.83	2.58	2	19	4	98	0.00	0.0	5.856	0.049	19	4	1	1
PL.50998	PL.51709	B	6 A (CWC)	7.40Y	123.3	0.00	1.70	0.00	0	0	0	100	0.00	0.0	5.321	0.074	0	0	0	0

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50999	PL.50998	B	6 A (CWC)	7.40Y	123.3	0.00	1.70	0.00	0	0	0	100	0.00	0.0	5.453	0.131	0	0	0	0
PL.49856	PL.63689	B	#4 ACSR	7.40Y	123.4	0.01	1.64	6.54	5	47	11	97	0.00	0.0	5.037	0.026	0	0	0	4
PL.49857	PL.49856	B	#4 ACSR	7.40Y	123.3	0.02	1.66	6.54	5	47	11	97	0.01	0.0	5.107	0.071	0	0	1	4
PL.50966	PL.49857	B	#4 ACSR	7.40Y	123.3	0.04	1.70	6.53	5	47	11	97	0.01	0.0	5.278	0.171	22	5	1	3
PL.50967	PL.50966	B	#4 ACSR	7.40Y	123.3	0.01	1.71	3.49	3	25	6	97	0.00	0.0	5.341	0.063	0	0	0	2
PL.50312	PL.50967	B	6 A (CWC)	7.40Y	123.3	0.00	1.71	1.87	1	13	3	97	0.00	0.0	5.440	0.098	13	3	1	1
PL.50968	PL.50967	B	#4 ACSR	7.40Y	123.3	0.00	1.71	1.62	1	12	3	97	0.00	0.0	5.373	0.032	12	3	1	1
PL.50992	PL.50991	A	#4 ACSR	7.43Y	123.8	0.00	1.18	1.92	1	14	3	98	0.00	0.0	4.446	0.014	0	0	0	3
PD.7667	PL.50992	A	25T	7.43Y	123.8	0.00	1.18	1.92	0	14	3	98	0.00	0.0	4.446	0.014	0	0	0	3
PL.50993	PD.7667	A	#4 ACSR	7.43Y	123.8	0.00	1.18	1.92	1	14	3	98	0.00	0.0	4.483	0.037	14	3	3	3
PL.57663	PL.50993	A	#4 ACSR	7.43Y	123.8	0.00	1.18	0.00	0	0	0	100	0.00	0.0	4.502	0.019	0	0	0	0
PL.50273	PL.50984	A	#4 ACSR	7.46Y	124.3	0.00	0.66	0.84	1	6	1	99	0.00	0.0	3.977	0.038	6	1	1	1
PL.50368	PL.50371	A	#4 ACSR	7.48Y	124.6	0.00	0.40	2.08	2	15	4	97	0.00	0.0	3.707	0.005	0	0	0	1
PD.7687	PL.50368	A	60QA	7.48Y	124.6	0.00	0.40	2.08	3	15	4	97	0.00	0.0	3.707	0.005	0	0	0	1
PL.50369	PD.7687	A	#4 ACSR	7.48Y	124.6	0.00	0.41	2.08	2	15	4	97	0.00	0.0	3.797	0.090	15	4	1	1
PL.50366	PL.50371	ABC	#1/0 ACSR	7.48Y	124.6	0.01	0.41	61.73	27	1343	335	97	0.07	0.0	3.710	0.007	0	0	0	172
PD.7721	PL.50366	ABC	100L	7.48Y	124.6	0.00	0.41	61.73	62	1343	335	97	0.00	0.0	3.710	0.007	0	0	0	172
PL.50367	PD.7721	ABC	#1/0 ACSR	7.47Y	124.6	0.01	0.42	61.73	27	1343	335	97	0.11	0.0	3.721	0.011	0	0	0	172
PL.50364	PL.50367	ABC	#1/0 ACSR	7.47Y	124.5	0.06	0.48	61.73	27	1343	334	97	0.55	0.0	3.776	0.055	26	6	2	172
PL.50365	PL.50364	ABC	#1/0 ACSR	7.46Y	124.4	0.16	0.65	60.53	26	1316	328	97	1.47	0.1	3.928	0.152	8	2	1	170
PL.50949	PL.50365	B	6 A (CWC)	7.46Y	124.4	0.00	0.65	26.35	19	191	46	97	0.00	0.0	3.931	0.003	0	0	0	24
PD.7722	PL.50949	B	50L	7.46Y	124.4	0.00	0.65	26.35	53	191	46	97	0.00	0.0	3.931	0.003	0	0	0	24
PL.50950	PD.7722	B	6 A (CWC)	7.45Y	124.2	0.12	0.76	26.35	19	191	46	97	0.16	0.1	4.032	0.102	16	4	2	24
PL.50948	PL.50950	B	6 A (CWC)	7.45Y	124.1	0.13	0.90	24.12	17	175	42	97	0.17	0.1	4.154	0.122	0	0	0	22
PL.50082	PL.50948	B	6 A (CWC)	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	4.215	0.060	0	0	1	1
PL.50947	PL.50948	B	6 A (CWC)	7.43Y	123.9	0.22	1.12	24.11	17	175	42	97	0.29	0.2	4.356	0.202	0	0	0	21
PL.50951	PL.50947	B	#4 ACSR	7.42Y	123.7	0.15	1.27	17.50	13	127	30	97	0.15	0.1	4.555	0.198	0	0	0	16
PL.50084	PL.50951	B	#4 ACSR	7.42Y	123.7	0.00	1.28	3.72	3	27	6	98	0.00	0.0	4.585	0.030	11	3	1	3
PL.50085	PL.50084	B	#4 ACSR	7.42Y	123.7	0.01	1.28	2.19	2	16	4	97	0.00	0.0	4.646	0.062	2	0	1	2
PL.50952	PL.50085	B	#4 ACSR	7.42Y	123.7	0.01	1.29	1.92	1	14	3	98	0.00	0.0	4.774	0.128	14	3	1	1
PL.50083	PL.50951	B	#4 ACSR	7.42Y	123.7	0.08	1.35	13.78	11	100	24	97	0.06	0.1	4.692	0.137	14	3	1	13

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50955	PL.50083	B	#4 ACSR	7.42Y	123.6	0.04	1.39	11.87	9	86	20	97	0.02	0.0	4.776	0.084	21	5	1	12
PL.50960	PL.50955	B	#4 ACSR	7.42Y	123.6	0.01	1.40	1.17	1	8	2	97	0.00	0.0	4.947	0.171	0	0	0	1
PL.50961	PL.50960	B	#4 ACSR	7.42Y	123.6	0.00	1.40	1.17	1	8	2	97	0.00	0.0	5.021	0.074	8	2	1	1
PL.50956	PL.50955	B	#4 ACSR	7.41Y	123.5	0.08	1.47	7.78	6	56	13	97	0.03	0.1	5.007	0.232	0	0	0	10
PL.50233	PL.50956	B	#4 ACSR	7.41Y	123.5	0.03	1.50	6.31	5	45	11	97	0.01	0.0	5.137	0.130	12	3	1	9
PL.50234	PL.50233	B	#4 ACSR	7.41Y	123.5	0.01	1.51	4.62	4	33	8	97	0.00	0.0	5.220	0.084	13	3	1	8
PL.50235	PL.50234	B	#4 ACSR	7.41Y	123.5	0.01	1.52	2.78	2	20	5	97	0.00	0.0	5.319	0.099	10	2	3	7
PL.50953	PL.50235	B	#4 ACSR	7.41Y	123.5	0.01	1.53	1.35	1	10	2	98	0.00	0.0	5.429	0.109	0	0	1	4
PL.50962	PL.50953	B	#4 ACSR	7.41Y	123.5	0.00	1.53	1.35	1	10	2	98	0.00	0.0	5.497	0.068	0	0	0	3
PL.50963	PL.50962	B	#4 ACSR	7.41Y	123.5	0.00	1.54	1.35	1	10	2	98	0.00	0.0	5.568	0.071	3	1	2	3
PL.50964	PL.50963	B	#4 ACSR	7.41Y	123.5	0.00	1.54	0.87	1	6	1	99	0.00	0.0	5.800	0.232	6	1	1	1
PL.50957	PL.50956	B	#4 ACSR	7.41Y	123.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	5.071	0.064	0	0	0	0
PL.50958	PL.50957	B	#4 ACSR	7.41Y	123.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	5.125	0.054	0	0	0	0
PL.50959	PL.50958	B	#4 ACSR	7.41Y	123.5	0.00	1.47	0.00	0	0	0	100	0.00	0.0	5.346	0.221	0	0	0	0
PL.50080	PL.50956	B	#4 ACSR	7.41Y	123.5	0.00	1.47	1.48	1	11	3	96	0.00	0.0	5.118	0.110	11	3	1	1
PL.50136	PL.50947	B	#4 ACSR	7.43Y	123.8	0.09	1.21	6.61	5	48	11	97	0.03	0.1	4.656	0.300	0	0	0	5
PL.50969	PL.50136	B	#4 ACSR	7.43Y	123.8	0.01	1.22	3.94	3	28	7	97	0.00	0.0	4.713	0.056	0	0	0	2
PL.50970	PL.50969	B	#4 ACSR	7.43Y	123.8	0.00	1.22	2.14	2	15	4	97	0.00	0.0	4.775	0.062	15	4	1	1
PL.50071	PL.50969	B	#4 ACSR	7.43Y	123.8	0.00	1.22	1.80	1	13	3	97	0.00	0.0	4.806	0.093	13	3	1	1
PL.50971	PL.50136	B	#4 ACSR	7.43Y	123.8	0.00	1.21	1.48	1	11	3	96	0.00	0.0	4.736	0.080	6	1	1	2
PL.49781	PL.50971	B	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.71	0	5	1	98	0.00	0.0	4.765	0.028	5	1	1	1
PL.50972	PL.50971	B	#4 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	4.838	0.102	0	0	0	0
PL.50272	PL.50136	B	#4 ACSR	7.43Y	123.8	0.00	1.21	1.19	1	9	2	98	0.00	0.0	4.749	0.093	9	2	1	1
PL.50945	PL.50365	ABC	#1/0 ACSR	7.45Y	124.2	0.19	0.84	51.37	22	1116	279	97	1.47	0.1	4.137	0.209	0	0	0	145
PL.50308	PL.50945	C	#1/0 ACSR	7.45Y	124.2	0.00	0.84	0.00	0	0	0	100	0.00	0.0	4.140	0.003	0	0	0	0
PD.7701	PL.50308	C	25QA	7.45Y	124.2	0.00	0.84	0.00	0	0	0	100	0.00	0.0	4.140	0.003	0	0	0	0
PL.50388	PD.7701	C	#1/0 ACSR	7.45Y	124.2	0.00	0.84	0.00	0	0	0	100	0.00	0.0	4.165	0.026	0	0	0	0
PL.50306	PL.50945	A	#1/0 ACSR	7.45Y	124.2	0.00	0.84	5.71	2	41	10	97	0.00	0.0	4.139	0.002	0	0	0	1
PD.7662	PL.50306	A	25QA	7.45Y	124.2	0.00	0.84	5.71	23	41	10	97	0.00	0.0	4.139	0.002	0	0	0	1
PL.50307	PD.7662	A	#1/0 ACSR	7.45Y	124.2	0.00	0.84	5.71	2	41	10	97	0.00	0.0	4.213	0.074	41	10	1	1
PL.50305	PL.50307	A	#1/0 ACSR	7.45Y	124.2	0.00	0.84	0.00	0	0	0	100	0.00	0.0	4.291	0.078	0	0	0	0

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50946	PL.50945	ABC	#1/0 ACSR	7.45Y	124.1	0.06	0.89	49.47	22	1073	268	97	0.43	0.0	4.203	0.066	0	0	0	144
PL.60862	PL.50946	ABC	#1/0 ACSR	7.44Y	124.0	0.14	1.03	49.47	22	1072	267	97	1.02	0.1	4.361	0.159	14	3	1	144
PL.60861	PL.60862	ABC	#1/0 ACSR	7.44Y	123.9	0.04	1.07	48.84	21	1058	263	97	0.26	0.0	4.402	0.041	0	0	0	143
PL.60860	PL.60861	ABC	#1/0 ACSR	7.43Y	123.9	0.06	1.13	48.84	21	1057	263	97	0.45	0.0	4.474	0.071	16	4	1	143
PL.60859	PL.60860	ABC	#1/0 ACSR	7.41Y	123.5	0.37	1.50	48.11	21	1041	259	97	2.70	0.3	4.911	0.437	0	0	0	142
PL.50943	PL.60859	C	#1/0 ACSR	7.41Y	123.5	0.00	1.50	0.38	0	3	1	95	0.00	0.0	4.913	0.002	0	0	0	1
PD.7658	PL.50943	C	40QA	7.41Y	123.5	0.00	1.50	0.38	1	3	1	95	0.00	0.0	4.913	0.002	0	0	0	1
PL.50944	PD.7658	C	#1/0 ACSR	7.41Y	123.5	0.00	1.50	0.38	0	3	1	95	0.00	0.0	4.950	0.037	3	1	1	1
PL.50942	PL.60859	ABC	#1/0 ACSR	7.40Y	123.3	0.15	1.65	47.99	21	1036	255	97	1.06	0.1	5.084	0.173	0	0	0	141
PL.50795	PL.50942	ABC	#1/0 ACSR	7.40Y	123.3	0.08	1.73	47.99	21	1035	254	97	0.54	0.1	5.172	0.088	0	0	0	141
PL.50794	PL.50795	ABC	#1/0 ACSR	7.39Y	123.2	0.10	1.83	47.99	21	1034	254	97	0.72	0.1	5.290	0.118	3	1	2	141
PL.50792	PL.50794	A	#1/0 ACSR	7.39Y	123.2	0.00	1.83	0.00	0	0	0	100	0.00	0.0	5.292	0.002	0	0	0	0
PD.7716	PL.50792	A	25QA	7.39Y	123.2	0.00	1.83	0.00	0	0	0	100	0.00	0.0	5.292	0.002	0	0	0	0
PL.50793	PD.7716	A	#1/0 ACSR	7.39Y	123.2	0.00	1.83	0.00	0	0	0	100	0.00	0.0	5.351	0.059	0	0	0	0
PL.50789	PL.50794	ABC	#1/0 ACSR	7.39Y	123.1	0.05	1.88	47.83	21	1030	252	97	0.37	0.0	5.352	0.062	11	3	1	139
PL.50788	PL.50789	ABC	#1/0 ACSR	7.38Y	123.0	0.08	1.96	47.31	21	1018	249	97	0.60	0.1	5.453	0.101	1	0	1	138
PL.50787	PL.50788	ABC	#1/0 ACSR	7.37Y	122.9	0.16	2.12	47.26	21	1017	249	97	1.10	0.1	5.638	0.185	1	0	1	137
PL.50786	PL.50787	ABC	#1/0 ACSR	7.37Y	122.8	0.11	2.22	47.20	21	1014	247	97	0.75	0.1	5.766	0.127	14	3	1	136
PL.49528	PL.50786	ABC	#1/0 ACSR	7.36Y	122.7	0.03	2.25	46.56	20	1000	243	97	0.21	0.0	5.802	0.037	18	4	1	135
PL.49629	PL.49528	ABC	#1/0 ACSR	7.36Y	122.7	0.03	2.28	45.72	20	981	239	97	0.20	0.0	5.839	0.037	8	2	1	134
PL.49693	PL.49629	ABC	#1/0 ACSR	7.36Y	122.7	0.06	2.34	36.52	16	784	191	97	0.32	0.0	5.929	0.090	0	0	0	101
PL.49530	PL.49693	ABC	#1/0 ACSR	7.36Y	122.6	0.06	2.40	35.57	15	763	186	97	0.31	0.0	6.021	0.092	4	1	1	99
PL.49531	PL.49530	ABC	#1/0 ACSR	7.35Y	122.6	0.04	2.44	35.37	15	758	185	97	0.22	0.0	6.087	0.066	0	0	0	98
PL.58524	PL.49531	ABC	#1/0 ACSR	7.35Y	122.5	0.03	2.47	35.37	15	758	185	97	0.16	0.0	6.136	0.049	3	1	1	97
PL.58525	PL.58524	ABC	#1/0 ACSR	7.35Y	122.5	0.07	2.54	35.23	15	755	184	97	0.38	0.1	6.252	0.116	0	0	0	96
PL.58526	PL.58525	ABC	#1/0 ACSR	7.34Y	122.4	0.10	2.64	34.17	15	732	178	97	0.50	0.1	6.412	0.160	0	0	0	94
PL.58528	PL.58526	A	#1/0 ACSR	7.34Y	122.4	0.00	2.64	0.00	0	0	0	100	0.00	0.0	6.416	0.004	0	0	0	0
PD.7650	PL.58528	A	40QA	7.34Y	122.4	0.00	2.64	0.00	0	0	0	100	0.00	0.0	6.416	0.004	0	0	0	0
PL.50555	PD.7650	A	#1/0 ACSR	7.34Y	122.4	0.00	2.64	0.00	0	0	0	100	0.00	0.0	6.467	0.051	0	0	0	0
PL.58527	PL.58526	ABC	#1/0 ACSR	7.34Y	122.3	0.03	2.67	34.17	15	731	178	97	0.13	0.0	6.455	0.043	19	4	2	94
PL.51756	PL.58527	C	#1/0 ACSR	7.34Y	122.3	0.00	2.67	23.17	10	165	39	97	0.00	0.0	6.456	0.001	0	0	0	23

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.7649	PL.51756	C	40QA	7.34Y	122.3	0.00	2.67	23.17	58	165	39	97	0.00	0.0	6.456	0.001	0	0	0	23
PL.51757	PD.7649	C	#1/0 ACSR	7.34Y	122.3	0.02	2.69	23.17	10	165	39	97	0.02	0.0	6.495	0.040	15	4	1	23
PL.60797	PL.51757	C	#4 ACSR	7.34Y	122.3	0.01	2.70	5.89	5	42	10	97	0.00	0.0	6.558	0.063	42	10	4	4
PL.50558	PL.51757	C	#1/0 ACSR	7.34Y	122.3	0.03	2.72	15.14	7	108	26	97	0.02	0.0	6.579	0.084	0	0	0	18
PL.50559	PL.50558	C	#1/0 ACSR	7.34Y	122.3	0.02	2.74	15.14	7	108	26	97	0.02	0.0	6.646	0.067	3	1	1	18
PL.50655	PL.50559	C	#1/0 ACSR	7.33Y	122.2	0.03	2.77	14.74	6	105	25	97	0.02	0.0	6.734	0.088	0	0	0	17
PL.50662	PL.50655	C	#1/0 ACSR	7.33Y	122.2	0.02	2.79	13.62	6	97	23	97	0.01	0.0	6.798	0.064	0	0	1	15
PL.50663	PL.50662	C	#1/0 ACSR	7.33Y	122.2	0.03	2.82	13.12	6	94	22	97	0.02	0.0	6.901	0.103	6	1	1	13
PL.50664	PL.50663	C	#1/0 ACSR	7.33Y	122.2	0.01	2.83	12.32	5	88	21	97	0.01	0.0	6.953	0.052	0	0	0	12
PL.49773	PL.50664	C	6 A (CWC)	7.33Y	122.2	0.00	2.83	0.00	0	0	0	100	0.00	0.0	7.040	0.087	0	0	0	0
PL.50665	PL.50664	C	#1/0 ACSR	7.33Y	122.1	0.03	2.86	12.32	5	88	21	97	0.02	0.0	7.058	0.105	1	0	1	12
PL.50666	PL.50665	C	#1/0 ACSR	7.33Y	122.1	0.03	2.89	12.20	5	87	21	97	0.02	0.0	7.170	0.113	14	3	3	11
PL.50221	PL.50666	C	#4 ACSR	7.33Y	122.1	0.00	2.89	0.86	1	6	1	99	0.00	0.0	7.272	0.102	6	1	1	1
PL.64474	PL.50666	C	#1/0 ACSR	7.33Y	122.1	0.01	2.90	9.42	4	67	16	97	0.00	0.0	7.219	0.049	0	0	0	7
PL.64475	PL.64474	C	#1/0 ACSR	7.33Y	122.1	0.00	2.90	9.42	4	67	16	97	0.00	0.0	7.219	0.000	11	3	1	7
PL.50785	PL.64475	C	#1/0 ACSR	7.33Y	122.1	0.01	2.91	7.88	3	56	13	97	0.00	0.0	7.267	0.048	19	4	1	6
PL.50659	PL.50785	C	#1/0 ACSR	7.33Y	122.1	0.01	2.92	5.26	2	37	9	97	0.00	0.0	7.343	0.076	0	0	0	5
PL.50132	PL.50659	C	#2 ACSR	7.32Y	122.1	0.00	2.92	1.33	1	9	2	98	0.00	0.0	7.416	0.073	9	2	1	1
PL.50660	PL.50659	C	#1/0 ACSR	7.32Y	122.1	0.01	2.92	3.93	2	28	7	97	0.00	0.0	7.449	0.106	9	2	1	4
PL.50661	PL.50660	C	#1/0 ACSR	7.32Y	122.1	0.00	2.93	2.60	1	19	4	98	0.00	0.0	7.513	0.064	4	1	1	3
PL.64696	PL.50661	C	#1/0 ACSR	7.32Y	122.1	0.01	2.93	2.05	1	15	3	98	0.00	0.0	7.658	0.145	0	0	0	2
PL.64697	PL.64696	C	#1/0 ACSR	7.32Y	122.1	0.00	2.94	1.64	1	12	3	97	0.00	0.0	7.756	0.098	12	3	1	1
PL.64698	PL.64696	C	#1/0 ACSR	7.32Y	122.1	0.00	2.93	0.41	0	3	1	95	0.00	0.0	7.730	0.071	3	1	1	1
PL.50131	PL.50660	C	#4 ACSR	7.32Y	122.1	0.00	2.92	0.00	0	0	0	100	0.00	0.0	7.550	0.102	0	0	0	0
PL.50109	PL.50662	C	#4 ACSR	7.33Y	122.2	0.00	2.79	0.47	0	3	1	95	0.00	0.0	6.843	0.045	3	1	1	1
PL.50656	PL.50655	C	#2 ACSR	7.33Y	122.2	0.00	2.77	1.12	1	8	2	97	0.00	0.0	6.752	0.018	3	1	1	2
PL.50657	PL.50656	C	#2 ACSR	7.33Y	122.2	0.00	2.77	0.77	0	6	1	99	0.00	0.0	6.838	0.086	6	1	1	1
PL.50658	PL.50657	C	#2 ACSR	7.33Y	122.2	0.00	2.77	0.00	0	0	0	100	0.00	0.0	6.862	0.024	0	0	0	0
PL.50556	PL.58527	ABC	#1/0 ACSR	7.34Y	122.3	0.00	2.67	25.58	11	547	134	97	0.01	0.0	6.458	0.003	0	0	0	69
PL.50557	PL.50556	ABC	#1/0 ACSR	7.34Y	122.3	0.04	2.71	25.58	11	547	134	97	0.14	0.0	6.537	0.079	0	0	0	69
PL.50213	PL.50557	ABC	#1/0 ACSR	7.33Y	122.2	0.09	2.79	25.58	11	547	134	97	0.34	0.1	6.731	0.193	0	0	0	69

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: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50214	PL.50213	ABC	#1/0 ACSR	7.33Y	122.1	0.06	2.85	25.58	11	547	134	97	0.24	0.0	6.867	0.136	0	0	0	69
PL.63810	PL.50214	A	#1/0 ACSR	7.33Y	122.1	0.00	2.86	2.19	1	16	4	97	0.00	0.0	6.910	0.043	16	4	1	1
PL.50685	PL.50214	ABC	#1/0 ACSR	7.33Y	122.1	0.06	2.91	23.75	10	507	124	97	0.21	0.0	7.010	0.143	0	0	0	67
PL.50698	PL.50685	A	#1/0 ACSR	7.33Y	122.1	0.00	2.91	1.67	1	12	3	97	0.00	0.0	7.012	0.002	0	0	0	1
PD.7660	PL.50698	A	40QA	7.33Y	122.1	0.00	2.91	1.67	4	12	3	97	0.00	0.0	7.012	0.002	0	0	0	1
PL.50699	PD.7660	A	#1/0 ACSR	7.33Y	122.1	0.00	2.92	1.67	1	12	3	97	0.00	0.0	7.104	0.092	12	3	1	1
PL.50691	PL.50685	ABC	#1/0 ACSR	7.32Y	122.1	0.02	2.94	23.19	10	495	121	97	0.08	0.0	7.066	0.056	0	0	0	66
PL.50700	PL.50691	ABC	#1/0 ACSR	7.31Y	121.9	0.16	3.10	23.05	10	492	120	97	0.56	0.1	7.462	0.396	0	0	0	65
PL.50701	PL.50700	A	#1/0 ACSR	7.31Y	121.9	0.00	3.10	0.36	0	3	1	95	0.00	0.0	7.464	0.002	0	0	0	1
PD.7698	PL.50701	A	40QA	7.31Y	121.9	0.00	3.10	0.36	1	3	1	95	0.00	0.0	7.464	0.002	0	0	0	1
PL.49955	PD.7698	A	#1/0 ACSR	7.31Y	121.9	0.00	3.10	0.36	0	3	1	95	0.00	0.0	7.488	0.024	3	1	1	1
PL.49956	PL.50700	C	#1/0 ACSR	7.31Y	121.9	0.00	3.10	0.42	0	3	1	95	0.00	0.0	7.464	0.002	0	0	0	1
PD.7657	PL.49956	C	40QA	7.31Y	121.9	0.00	3.10	0.42	1	3	1	95	0.00	0.0	7.464	0.002	0	0	0	1
PL.60777	PD.7657	C	#1/0 ACSR	7.31Y	121.9	0.00	3.10	0.42	0	3	1	95	0.00	0.0	7.550	0.086	3	1	1	1
PL.60778	PL.60777	C	#1/0 ACSR	7.31Y	121.9	0.00	3.10	0.00	0	0	0	100	0.00	0.0	7.607	0.057	0	0	0	0
PL.49957	PL.50700	ABC	#1/0 ACSR	7.31Y	121.9	0.04	3.14	22.79	10	486	118	97	0.13	0.0	7.559	0.097	0	0	0	63
PL.49959	PL.49957	A	#1/0 ACSR	7.31Y	121.9	0.00	3.14	2.43	1	17	4	97	0.00	0.0	7.561	0.003	0	0	0	1
PD.7656	PL.49959	A	40QA	7.31Y	121.9	0.00	3.14	2.43	6	17	4	97	0.00	0.0	7.561	0.003	0	0	0	1
PL.49960	PD.7656	A	#1/0 ACSR	7.31Y	121.9	0.00	3.14	2.43	1	17	4	97	0.00	0.0	7.607	0.046	17	4	1	1
PL.49958	PL.49957	ABC	#1/0 ACSR	7.31Y	121.8	0.03	3.17	21.98	10	468	114	97	0.11	0.0	7.647	0.088	0	0	0	62
PL.49961	PL.49958	C	6 A (CWC)	7.31Y	121.8	0.00	3.17	2.64	2	19	4	98	0.00	0.0	7.653	0.007	0	0	0	2
PD.7659	PL.49961	C	40QA	7.31Y	121.8	0.00	3.17	2.64	7	19	4	98	0.00	0.0	7.653	0.007	0	0	0	2
PL.49962	PD.7659	C	6 A (CWC)	7.31Y	121.8	0.01	3.18	2.64	2	19	4	98	0.00	0.0	7.732	0.078	3	1	1	2
PL.49963	PL.49962	C	6 A (CWC)	7.31Y	121.8	0.01	3.19	2.21	2	16	4	97	0.00	0.0	7.790	0.058	0	0	0	1
PL.49964	PL.49963	C	6 A (CWC)	7.31Y	121.8	0.00	3.19	2.21	2	16	4	97	0.00	0.0	7.818	0.029	16	4	1	1
PL.50277	PL.49962	C	#2 ACSR	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	7.762	0.030	0	0	0	0
PL.49965	PL.49958	ABC	#1/0 ACSR	7.31Y	121.8	0.05	3.22	21.10	9	450	110	97	0.15	0.0	7.773	0.126	0	0	0	60
PL.49966	PL.49965	ABC	#1/0 ACSR	7.31Y	121.8	0.03	3.25	21.10	9	449	109	97	0.09	0.0	7.851	0.078	0	0	0	60
PL.52265	PL.49966	C	#1/0 ACSR	7.31Y	121.8	0.00	3.25	1.05	0	7	2	96	0.00	0.0	7.852	0.001	0	0	0	3
PD.7967	PL.52265	C	40QA	7.31Y	121.8	0.00	3.25	1.05	3	7	2	96	0.00	0.0	7.852	0.001	0	0	0	3
PL.52266	PD.7967	C	#1/0 ACSR	7.30Y	121.7	0.00	3.25	1.05	0	7	2	96	0.00	0.0	7.896	0.044	3	1	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: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50597	PL.52266	C	#1/0 ACSR	7.30Y	121.7	0.00	3.25	0.60	0	4	1	97	0.00	0.0	7.924	0.028	4	1	1	1
PL.49833	PL.49966	ABC	#1/0 ACSR	7.30Y	121.7	0.07	3.32	20.75	9	442	108	97	0.22	0.1	8.047	0.197	6	1	1	57
PL.49834	PL.49833	ABC	#1/0 ACSR	7.30Y	121.6	0.03	3.35	20.48	9	436	106	97	0.10	0.0	8.138	0.091	0	0	0	56
PL.50115	PL.49834	ABC	#1/0 ACSR	7.30Y	121.6	0.04	3.39	19.10	8	406	99	97	0.10	0.0	8.245	0.107	0	0	0	52
PL.50215	PL.50115	A	#1/0 ACSR	7.30Y	121.6	0.00	3.39	9.95	4	71	17	97	0.00	0.0	8.247	0.002	0	0	0	12
PD.7725	PL.50215	A	35L	7.30Y	121.6	0.00	3.39	9.95	28	71	17	97	0.00	0.0	8.247	0.002	0	0	0	12
PL.50216	PD.7725	A	#1/0 ACSR	7.30Y	121.6	0.01	3.40	9.95	4	71	17	97	0.01	0.0	8.294	0.047	0	0	0	12
PL.50218	PL.50216	A	#1/0 ACSR	7.29Y	121.5	0.09	3.49	9.95	4	71	17	97	0.04	0.1	8.729	0.435	6	2	2	12
PL.63862	PL.50218	A	#1/0 ACSR	7.29Y	121.5	0.02	3.51	9.04	4	64	15	97	0.01	0.0	8.819	0.090	0	0	0	10
PL.63864	PL.63862	A	#1/0 ACSR	7.29Y	121.5	0.03	3.54	2.41	1	17	4	97	0.00	0.0	9.353	0.534	0	0	0	1
PL.63865	PL.63864	A	#1/0 ACSR	7.29Y	121.5	0.00	3.54	2.41	1	17	4	97	0.00	0.0	9.363	0.010	0	0	0	1
PD.7634	PL.63865	A	60QA	7.29Y	121.5	0.00	3.54	2.41	4	17	4	97	0.00	0.0	9.363	0.010	0	0	0	1
PL.63861	PD.7634	A	#1/0 ACSR	7.29Y	121.5	0.00	3.54	2.41	1	17	4	97	0.00	0.0	9.375	0.011	0	0	0	1
PL.61938	PL.63861	A	6 A (CWC)	7.29Y	121.5	0.00	3.54	0.00	0	0	0	100	0.00	0.0	9.379	0.004	0	0	0	0
PL.50056	PL.63861	A	#2 ACSR	7.29Y	121.5	0.00	3.55	2.41	1	17	4	97	0.00	0.0	9.441	0.067	17	4	1	1
PL.63863	PL.63862	A	6 A (CWC)	7.29Y	121.4	0.05	3.56	6.63	5	47	11	97	0.02	0.0	8.978	0.159	0	0	0	9
PL.50224	PL.63863	A	6 A (CWC)	7.28Y	121.4	0.03	3.59	6.63	5	47	11	97	0.01	0.0	9.064	0.086	1	0	1	9
PL.49611	PL.50224	A	6 A (CWC)	7.28Y	121.4	0.05	3.64	6.55	5	46	11	97	0.02	0.0	9.248	0.184	0	0	0	8
PL.50065	PL.49611	A	#4 ACSR	7.28Y	121.4	0.00	3.64	0.44	0	3	1	95	0.00	0.0	9.266	0.018	3	1	1	1
PL.49944	PL.49611	A	#4 ACSR	7.28Y	121.3	0.02	3.66	6.12	5	43	10	97	0.01	0.0	9.333	0.086	4	1	1	7
PL.49945	PL.49944	A	#4 ACSR	7.28Y	121.3	0.02	3.69	5.61	4	40	9	98	0.01	0.0	9.429	0.096	1	0	1	6
PL.61942	PL.49945	A	#4 ACSR	7.27Y	121.2	0.06	3.75	5.53	4	39	9	97	0.02	0.0	9.694	0.265	0	0	0	5
PL.49946	PL.61942	A	6 A (CWC)	7.27Y	121.2	0.02	3.77	4.28	3	30	7	97	0.01	0.0	9.810	0.116	0	0	1	4
PL.49947	PL.49946	A	6 A (CWC)	7.27Y	121.2	0.02	3.80	4.27	3	30	7	97	0.00	0.0	9.983	0.173	18	4	2	3
PL.49763	PL.49947	A	#4 ACSR	7.27Y	121.2	0.00	3.80	0.00	0	0	0	100	0.00	0.0	10.198	0.215	0	0	0	0
PL.50270	PL.49947	A	6 A (CWC)	7.27Y	121.2	0.00	3.80	1.67	1	12	3	97	0.00	0.0	10.028	0.045	12	3	1	1
PL.49720	PL.61942	A	#4 ACSR	7.27Y	121.2	0.00	3.75	1.25	1	9	2	98	0.00	0.0	9.799	0.106	9	2	1	1
PL.49836	PL.50115	A C	6 A (CWC)	7.29Y	121.6	0.05	3.45	23.67	17	336	82	97	0.14	0.0	8.300	0.055	0	0	0	40
PL.49837	PL.49836	A C	6 A (CWC)	7.29Y	121.4	0.12	3.56	22.53	16	319	78	97	0.29	0.1	8.424	0.124	0	0	1	39
PL.51759	PL.49837	C	#4 ACSR	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	8.424	0.000	0	0	0	0
PD.7637	PL.51759	C	40QA	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	8.424	0.000	0	0	0	0

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.51760	PD.7637	C	#4 ACSR	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	8.424	0.000	0	0	0	0
PL.51758	PL.51760	C	#4 ACSR	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	8.608	0.183	0	0	0	0
PL.49552	PL.51760	C	6 A (CWC)	7.29Y	121.4	0.00	3.56	0.00	0	0	0	100	0.00	0.0	8.483	0.059	0	0	0	0
PL.52241	PL.49837	A C	6 A (CWC)	7.29Y	121.4	0.00	3.56	22.53	16	319	78	97	0.00	0.0	8.425	0.001	0	0	0	38
PL.52242	PL.52241	A C	6 A (CWC)	7.28Y	121.4	0.07	3.64	22.53	16	319	78	97	0.18	0.1	8.502	0.077	0	0	0	38
PL.52323	PL.52242	A C	6 A (CWC)	7.28Y	121.3	0.03	3.66	22.53	16	319	78	97	0.06	0.0	8.529	0.027	0	0	0	38
PL.52274	PL.52323	A C	6 A (CWC)	7.28Y	121.3	0.00	3.66	22.53	16	319	78	97	0.00	0.0	8.530	0.000	0	0	0	38
PL.52275	PL.52274	A C	6 A (CWC)	7.28Y	121.3	0.00	3.67	22.53	16	319	78	97	0.01	0.0	8.532	0.002	0	0	0	38
PD.8016	PL.52275	A C	35L	7.28Y	121.3	0.00	3.67	22.53	64	319	78	97	0.00	0.0	8.532	0.002	0	0	0	38
PL.52279	PD.8016	A C	6 A (CWC)	7.26Y	121.0	0.38	4.05	22.53	16	319	78	97	0.93	0.3	8.934	0.402	6	1	1	38
PL.52277	PL.52279	C	6 A (CWC)	7.26Y	121.0	0.00	4.05	0.44	0	3	1	95	0.00	0.0	8.938	0.003	0	0	0	1
PD.7635	PL.52277	C	25QA	7.26Y	121.0	0.00	4.05	0.44	2	3	1	95	0.00	0.0	8.938	0.003	0	0	0	1
PL.50702	PD.7635	C	6 A (CWC)	7.26Y	121.0	0.00	4.05	0.44	0	3	1	95	0.00	0.0	9.069	0.131	0	0	0	1
PL.50703	PL.50702	C	6 A (CWC)	7.26Y	120.9	0.01	4.05	0.44	0	3	1	95	0.00	0.0	9.381	0.312	0	0	0	1
PL.50704	PL.50703	C	6 A (CWC)	7.26Y	120.9	0.00	4.06	0.44	0	3	1	95	0.00	0.0	9.562	0.181	3	1	1	1
PL.52276	PL.52279	C	6 A (CWC)	7.26Y	121.0	0.00	4.05	0.20	0	1	0	100	0.00	0.0	8.940	0.006	0	0	0	1
PD.7683	PL.52276	C	25QA	7.26Y	121.0	0.00	4.05	0.20	1	1	0	100	0.00	0.0	8.940	0.006	0	0	0	1
PL.49839	PD.7683	C	6 A (CWC)	7.26Y	121.0	0.00	4.05	0.20	0	1	0	100	0.00	0.0	9.086	0.146	1	0	1	1
PL.52278	PL.52279	A C	6 A (CWC)	7.25Y	120.8	0.17	4.21	21.79	16	307	75	97	0.40	0.1	9.114	0.180	0	0	0	35
PL.52325	PL.52278	A C	6 A (CWC)	7.24Y	120.7	0.05	4.27	21.79	16	307	75	97	0.13	0.0	9.172	0.058	0	0	0	35
PL.52327	PL.52325	C	6 A (CWC)	7.22Y	120.4	0.33	4.59	43.38	31	305	74	97	0.76	0.3	9.339	0.167	0	0	0	34
PL.50753	PL.52327	C	6 A (CWC)	7.20Y	119.9	0.46	5.06	42.69	30	300	73	97	1.05	0.4	9.580	0.241	5	1	1	31
PL.50754	PL.50753	C	6 A (CWC)	7.19Y	119.8	0.19	5.25	41.92	30	293	71	97	0.42	0.1	9.682	0.102	10	2	1	30
PL.50755	PL.50754	C	6 A (CWC)	7.17Y	119.6	0.19	5.43	40.56	29	283	68	97	0.40	0.1	9.788	0.106	18	4	1	29
PL.50756	PL.50755	C	6 A (CWC)	7.17Y	119.5	0.11	5.54	37.98	27	265	64	97	0.21	0.1	9.853	0.064	18	4	1	28
PL.52240	PL.50756	C	6 A (CWC)	7.16Y	119.3	0.17	5.71	35.37	25	246	59	97	0.32	0.1	9.960	0.107	2	1	1	27
PL.53169	PL.52240	C	6 A (CWC)	7.15Y	119.1	0.14	5.86	35.05	25	244	59	97	0.26	0.1	10.058	0.098	36	8	1	26
PL.52886	PL.53169	C	#1/0 ACSR	7.15Y	119.1	0.02	5.88	29.90	13	208	50	97	0.03	0.0	10.090	0.031	0	0	0	25
PL.52887	PL.52886	C	#1/0 ACSR	7.15Y	119.1	0.03	5.91	29.90	13	208	50	97	0.04	0.0	10.132	0.043	0	0	0	25
PL.53170	PL.52887	C	#1/0 ACSR	7.14Y	119.1	0.02	5.93	29.90	13	208	50	97	0.03	0.0	10.166	0.034	0	0	0	25
PL.52885	PL.53170	C	#1/0 ACSR	7.14Y	119.0	0.03	5.96	29.90	13	208	50	97	0.05	0.0	10.218	0.052	0	0	0	25

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.60864	PL.52885	C	#1/0 ACSR	7.14Y	119.0	0.01	5.97	29.90	13	208	50	97	0.01	0.0	10.233	0.015	15	4	1	25
PL.60863	PL.60864	C	#1/0 ACSR	7.13Y	118.8	0.21	6.18	27.76	12	193	46	97	0.28	0.1	10.574	0.341	7	2	1	24
REG71	PL.60863	C	76.2 KVA	7.50Y	125.1	-6.25	-0.07	26.81	27	186	44	97	percent Boost= 0.00 Tap= 0.0							23
PL.52335	REG71	C	#1/0 ACSR	7.50Y	125.0	0.07	-0.00	25.47	11	186	44	97	0.08	0.0	10.693	0.119	0	0	0	23
PL.52339	PL.52335	C	#4 ACSR	7.49Y	124.9	0.11	0.11	25.47	20	186	44	97	0.15	0.1	10.791	0.098	0	0	0	23
PL.52343	PL.52339	C	#4 ACSR	7.49Y	124.9	0.00	0.11	12.39	10	90	21	97	0.00	0.0	10.793	0.002	0	0	0	8
PD.8014	PL.52343	C	25QA	7.49Y	124.9	0.00	0.11	12.39	50	90	21	97	0.00	0.0	10.793	0.002	0	0	0	8
PL.52342	PD.8014	C	#4 ACSR	7.49Y	124.8	0.13	0.24	12.39	10	90	21	97	0.09	0.1	11.032	0.239	0	0	0	8
PL.52338	PL.52342	C	#4 ACSR	7.48Y	124.7	0.07	0.31	12.39	10	90	21	97	0.04	0.0	11.160	0.128	5	1	1	8
PL.50747	PL.52338	C	#4 ACSR	7.48Y	124.6	0.07	0.38	11.71	9	85	20	97	0.04	0.1	11.295	0.135	0	0	0	7
PL.50748	PL.50747	C	#4 ACSR	7.47Y	124.6	0.05	0.43	10.89	8	79	19	97	0.03	0.0	11.404	0.109	0	0	0	6
PL.49980	PL.50748	C	#2 ACSR	7.47Y	124.6	0.00	0.43	1.96	1	14	3	98	0.00	0.0	11.427	0.024	14	3	1	1
PL.50749	PL.50748	C	#4 ACSR	7.47Y	124.5	0.05	0.48	8.92	7	65	15	97	0.02	0.0	11.532	0.128	0	0	0	5
PL.49320	PL.50749	C	#4 ACSR	7.47Y	124.5	0.01	0.49	1.83	1	13	3	97	0.00	0.0	11.685	0.153	13	3	1	1
PL.50750	PL.50749	C	#4 ACSR	7.47Y	124.5	0.01	0.49	7.09	5	52	12	97	0.00	0.0	11.550	0.019	12	3	1	4
PL.50751	PL.50750	C	#4 ACSR	7.47Y	124.5	0.01	0.49	5.46	4	40	9	98	0.00	0.0	11.595	0.045	27	6	2	3
PL.50096	PL.50751	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	11.951	0.357	0	0	0	0
PL.50752	PL.50751	C	#4 ACSR	7.47Y	124.5	0.01	0.51	1.77	1	13	3	97	0.00	0.0	11.900	0.306	13	3	1	1
PL.50079	PL.50747	C	#4 ACSR	7.48Y	124.6	0.00	0.38	0.82	1	6	1	99	0.00	0.0	11.425	0.130	6	1	1	1
PL.52340	PL.52339	C	#4 ACSR	7.49Y	124.9	0.00	0.11	13.08	10	95	23	97	0.00	0.0	10.792	0.001	0	0	0	15
PD.8013	PL.52340	C	25QA	7.49Y	124.9	0.00	0.11	13.08	52	95	23	97	0.00	0.0	10.792	0.001	0	0	0	15
PL.52341	PD.8013	C	#4 ACSR	7.48Y	124.7	0.19	0.30	13.08	10	95	23	97	0.13	0.1	11.137	0.345	6	1	1	15
PL.52336	PL.52341	C	#4 ACSR	7.48Y	124.7	0.00	0.30	0.00	0	0	0	100	0.00	0.0	11.235	0.098	0	0	0	0
PL.52337	PL.52341	C	#4 ACSR	7.48Y	124.6	0.11	0.42	12.21	9	89	21	97	0.07	0.1	11.346	0.209	0	0	0	14
PL.50707	PL.52337	C	#4 ACSR	7.47Y	124.6	0.02	0.44	10.92	8	79	19	97	0.01	0.0	11.388	0.042	0	0	0	13
PL.50708	PL.50707	C	#4 ACSR	7.47Y	124.5	0.04	0.48	10.92	8	79	19	97	0.02	0.0	11.490	0.102	17	4	1	13
PL.50731	PL.50708	C	#4 ACSR	7.47Y	124.5	0.02	0.50	8.58	7	62	15	97	0.01	0.0	11.552	0.062	6	1	1	12
PL.50732	PL.50731	C	#4 ACSR	7.47Y	124.5	0.05	0.55	7.79	6	57	13	97	0.02	0.0	11.686	0.134	0	0	0	11
PL.50118	PL.50732	C	#4 ACSR	7.47Y	124.5	0.00	0.55	1.02	1	7	2	96	0.00	0.0	11.751	0.065	7	2	1	1
PL.50733	PL.50732	C	#4 ACSR	7.47Y	124.4	0.01	0.56	6.78	5	49	12	97	0.01	0.0	11.743	0.057	13	3	1	10
PL.50734	PL.50733	C	#2 ACSR	7.47Y	124.4	0.01	0.57	0.41	0	3	1	95	0.00	0.0	12.167	0.424	0	0	0	1

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50735	PL.50734	C	#2 ACSR	7.47Y	124.4	0.00	0.57	0.41	0	3	1	95	0.00	0.0	12.260	0.093	3	1	1	1
PL.50736	PL.50733	C	#4 ACSR	7.46Y	124.4	0.05	0.62	4.57	4	33	8	97	0.01	0.0	12.003	0.259	0	0	1	8
PL.50737	PL.50736	C	#4 ACSR	7.46Y	124.4	0.01	0.63	4.53	3	33	8	97	0.00	0.0	12.072	0.070	0	0	0	7
PL.49688	PL.50737	C	#4 ACSR	7.46Y	124.4	0.00	0.63	0.00	0	0	0	100	0.00	0.0	12.135	0.063	0	0	0	0
PL.60794	PL.50737	C	#4 ACSR	7.46Y	124.3	0.04	0.67	4.53	3	33	8	97	0.01	0.0	12.254	0.182	0	0	1	7
PL.60795	PL.60794	C	#4 ACSR	7.46Y	124.3	0.04	0.70	3.42	3	25	6	97	0.01	0.0	12.502	0.248	0	0	0	5
PL.50738	PL.60795	C	#4 ACSR	7.46Y	124.3	0.02	0.73	3.42	3	25	6	97	0.00	0.0	12.660	0.158	0	0	0	5
PL.50744	PL.50738	C	6 A (CWC)	7.45Y	124.2	0.03	0.75	2.38	2	17	4	97	0.00	0.0	13.139	0.478	17	4	1	1
PL.50745	PL.50744	C	6 A (CWC)	7.45Y	124.2	0.00	0.75	0.00	0	0	0	100	0.00	0.0	13.467	0.328	0	0	0	0
PL.50746	PL.50745	C	6 A (CWC)	7.45Y	124.2	0.00	0.75	0.00	0	0	0	100	0.00	0.0	13.517	0.050	0	0	0	0
PL.50739	PL.50738	C	6 A (CWC)	7.46Y	124.3	0.01	0.74	1.05	1	8	2	97	0.00	0.0	12.906	0.246	0	0	0	4
PL.50740	PL.50739	C	6 A (CWC)	7.46Y	124.3	0.01	0.75	1.05	1	8	2	97	0.00	0.0	13.069	0.163	0	0	0	4
PL.50075	PL.50740	C	#2 ACSR	7.46Y	124.3	0.00	0.75	0.00	0	0	0	100	0.00	0.0	13.112	0.043	0	0	2	2
PL.50741	PL.50740	C	6 A (CWC)	7.45Y	124.2	0.04	0.78	1.05	1	8	2	97	0.00	0.0	13.814	0.745	0	0	0	2
PL.63669	PL.50741	C	6 A (CWC)	7.45Y	124.2	0.01	0.79	1.05	1	8	2	97	0.00	0.0	14.010	0.196	0	0	0	2
PL.63670	PL.63669	C	6 A (CWC)	7.45Y	124.2	0.01	0.80	1.05	1	8	2	97	0.00	0.0	14.278	0.268	8	2	2	2
PL.50742	PL.63670	C	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.00	0	0	0	100	0.00	0.0	14.711	0.433	0	0	0	0
PL.50101	PL.50742	C	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.00	0	0	0	100	0.00	0.0	14.854	0.144	0	0	0	0
PL.50743	PL.50742	C	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.00	0	0	0	100	0.00	0.0	14.835	0.124	0	0	0	0
PL.63671	PL.63669	C	6 A (CWC)	7.45Y	124.2	0.00	0.79	0.00	0	0	0	100	0.00	0.0	14.057	0.047	0	0	0	0
PL.49637	PL.50741	C	6 A (CWC)	7.45Y	124.2	0.00	0.78	0.00	0	0	0	100	0.00	0.0	13.911	0.097	0	0	0	0
PL.63956	PL.60794	C	#1/0 ACSR	7.46Y	124.3	0.00	0.67	1.11	0	8	2	97	0.00	0.0	12.348	0.093	0	0	0	1
PL.63957	PL.63956	C	#1/0 ACSR	7.46Y	124.3	0.00	0.67	1.11	0	8	2	97	0.00	0.0	12.385	0.038	8	2	1	1
PL.50222	PL.52337	C	#4 ACSR	7.47Y	124.6	0.00	0.42	1.29	1	9	2	98	0.00	0.0	11.395	0.049	9	2	1	1
PL.52331	PL.52327	C	6 A (CWC)	7.22Y	120.4	0.00	4.59	0.68	0	5	1	98	0.00	0.0	9.414	0.075	5	1	2	3
PL.52328	PL.52331	C	#4 ACSR	7.22Y	120.4	0.00	4.59	0.00	0	0	0	100	0.00	0.0	9.484	0.070	0	0	0	0
PL.52332	PL.52331	C	6 A (CWC)	7.22Y	120.4	0.00	4.59	0.00	0	0	0	100	0.00	0.0	9.416	0.002	0	0	0	1
PD.8012	PL.52332	C	40QA	7.22Y	120.4	0.00	4.59	0.00	0	0	0	100	0.00	0.0	9.416	0.002	0	0	0	1
PL.52333	PD.8012	C	6 A (CWC)	7.22Y	120.4	0.00	4.59	0.00	0	0	0	100	0.00	0.0	9.810	0.395	0	0	0	1
PL.52330	PL.52333	C	6 A (CWC)	7.22Y	120.4	0.00	4.59	0.00	0	0	0	100	0.00	0.0	9.896	0.085	0	0	1	1
PL.50389	PL.52330	C	6 A (CWC)	7.22Y	120.4	0.00	4.59	0.00	0	0	0	100	0.00	0.0	10.130	0.235	0	0	0	0

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.49687	PL.50389	C	6 A (CWC)	7.22Y	120.4	0.00	4.59	0.00	0	0	0	100	0.00	0.0	10.358	0.227	0	0	0	0
PL.52329	PL.52333	C	6 A (CWC)	7.22Y	120.4	0.00	4.59	0.00	0	0	0	100	0.00	0.0	10.261	0.450	0	0	0	0
PL.52326	PL.52325	C	#4 ACSR	7.24Y	120.7	0.00	4.27	0.21	0	1	0	100	0.00	0.0	9.176	0.004	0	0	0	1
PD.8011	PL.52326	C	40QA	7.24Y	120.7	0.00	4.27	0.21	1	1	0	100	0.00	0.0	9.176	0.004	0	0	0	1
PL.50705	PD.8011	C	#4 ACSR	7.24Y	120.7	0.00	4.27	0.21	0	1	0	100	0.00	0.0	9.422	0.246	0	0	0	1
PL.50706	PL.50705	C	#4 ACSR	7.24Y	120.7	0.00	4.27	0.21	0	1	0	100	0.00	0.0	9.637	0.215	0	0	0	1
PL.50278	PL.50706	C	#4 ACSR	7.24Y	120.7	0.00	4.27	0.00	0	0	0	100	0.00	0.0	9.720	0.083	0	0	0	0
PL.52334	PL.50706	C	#4 ACSR	7.24Y	120.7	0.00	4.27	0.21	0	1	0	100	0.00	0.0	9.750	0.113	1	0	1	1
PL.49774	PL.50705	C	#4 ACSR	7.24Y	120.7	0.00	4.27	0.00	0	0	0	100	0.00	0.0	9.471	0.049	0	0	0	0
PL.52324	PL.52323	C	6 A (CWC)	7.28Y	121.3	0.00	3.66	0.00	0	0	0	100	0.00	0.0	8.531	0.002	0	0	0	0
PD.7636	PL.52324	C	40QA	7.28Y	121.3	0.00	3.66	0.00	0	0	0	100	0.00	0.0	8.531	0.002	0	0	0	0
PL.49838	PD.7636	C	6 A (CWC)	7.28Y	121.3	0.00	3.66	0.00	0	0	0	100	0.00	0.0	8.631	0.100	0	0	0	0
PL.50220	PL.49836	C	#1/0 ACSR	7.29Y	121.6	0.00	3.45	2.29	1	16	4	97	0.00	0.0	8.397	0.097	16	4	1	1
PL.49835	PL.49834	C	#1/0 ACSR	7.30Y	121.6	0.00	3.35	4.17	2	30	7	97	0.00	0.0	8.140	0.002	0	0	0	4
PD.7684	PL.49835	C	40QA	7.30Y	121.6	0.00	3.35	4.17	10	30	7	97	0.00	0.0	8.140	0.002	0	0	0	4
PL.60333	PD.7684	C	#1/0 ACSR	7.30Y	121.6	0.00	3.35	4.17	2	30	7	97	0.00	0.0	8.147	0.006	5	1	1	4
PL.60332	PL.60333	C	#4 ACSR	7.30Y	121.6	0.05	3.40	3.40	3	24	6	97	0.01	0.0	8.478	0.331	0	0	0	3
PL.50113	PL.60332	C	#4 ACSR	7.30Y	121.6	0.00	3.41	3.11	2	22	5	98	0.00	0.0	8.514	0.036	22	5	2	2
PL.49933	PL.60332	C	#1/0 ACSR	7.30Y	121.6	0.00	3.41	0.29	0	2	0	100	0.00	0.0	8.734	0.256	2	0	1	1
PL.49685	PL.50691	C	#1/0 ACSR	7.32Y	122.1	0.00	2.94	0.43	0	3	1	95	0.00	0.0	7.160	0.094	3	1	1	1
PL.50694	PL.50214	C	#1/0 ACSR	7.33Y	122.1	0.00	2.85	0.00	0	0	0	100	0.00	0.0	6.870	0.002	0	0	0	0
PD.7648	PL.50694	C	40QA	7.33Y	122.1	0.00	2.85	0.00	0	0	0	100	0.00	0.0	6.870	0.002	0	0	0	0
PL.50695	PD.7648	C	#1/0 ACSR	7.33Y	122.1	0.00	2.85	0.00	0	0	0	100	0.00	0.0	7.153	0.283	0	0	0	0
PL.50696	PL.50214	A	#1/0 ACSR	7.33Y	122.1	0.00	2.85	3.31	1	24	6	97	0.00	0.0	6.869	0.002	0	0	0	1
PD.7713	PL.50696	A	40QA	7.33Y	122.1	0.00	2.85	3.31	8	24	6	97	0.00	0.0	6.869	0.002	0	0	0	1
PL.50697	PD.7713	A	#1/0 ACSR	7.33Y	122.1	0.00	2.86	3.31	1	24	6	97	0.00	0.0	6.977	0.108	24	6	1	1
PL.49915	PL.50697	A	#1/0 ACSR	7.33Y	122.1	0.00	2.86	0.00	0	0	0	100	0.00	0.0	7.059	0.082	0	0	0	0
PL.50692	PL.50213	C	#1/0 ACSR	7.33Y	122.2	0.00	2.79	0.00	0	0	0	100	0.00	0.0	6.733	0.002	0	0	0	0
PD.7681	PL.50692	C	40QA	7.33Y	122.2	0.00	2.79	0.00	0	0	0	100	0.00	0.0	6.733	0.002	0	0	0	0
PL.50693	PD.7681	C	#1/0 ACSR	7.33Y	122.2	0.00	2.79	0.00	0	0	0	100	0.00	0.0	6.789	0.056	0	0	0	0
PL.58530	PL.58525	C	#1/0 ACSR	7.35Y	122.5	0.00	2.55	3.19	1	23	5	98	0.00	0.0	6.254	0.002	0	0	0	2

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.8707	PL.58530	C	15T	7.35Y	122.5	0.00	2.55	3.19	0	23	5	98	0.00	0.0	6.254	0.002	0	0	0	2
PL.58531	PD.8707	C	#1/0 ACSR	7.35Y	122.5	0.00	2.55	3.19	1	23	5	98	0.00	0.0	6.288	0.034	10	2	1	2
PL.58529	PL.58531	C	#1/0 ACSR	7.35Y	122.5	0.00	2.55	1.78	1	13	3	97	0.00	0.0	6.328	0.039	13	3	1	1
PL.49532	PL.49531	A	#1/0 ACSR	7.35Y	122.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	6.091	0.004	0	0	0	1
PD.7714	PL.49532	A	40QA	7.35Y	122.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	6.091	0.004	0	0	0	1
PL.49533	PD.7714	A	#1/0 ACSR	7.35Y	122.6	0.00	2.44	0.00	0	0	0	100	0.00	0.0	6.154	0.063	0	0	1	1
PL.49627	PL.49693	C	#4 ACSR	7.36Y	122.7	0.00	2.34	2.84	2	20	5	97	0.00	0.0	5.930	0.001	0	0	0	2
PD.7682	PL.49627	C	40QA	7.36Y	122.7	0.00	2.34	2.84	7	20	5	97	0.00	0.0	5.930	0.001	0	0	0	2
PL.49628	PD.7682	C	#4 ACSR	7.36Y	122.6	0.01	2.35	2.84	2	20	5	97	0.00	0.0	5.990	0.060	0	0	0	2
PL.49636	PL.49628	C	#4 ACSR	7.36Y	122.6	0.00	2.35	1.61	1	12	3	97	0.00	0.0	6.041	0.051	12	3	1	1
PL.49626	PL.49628	C	#4 ACSR	7.36Y	122.6	0.00	2.35	1.23	1	9	2	98	0.00	0.0	6.015	0.025	0	0	0	1
PL.49529	PL.49626	C	#4 ACSR	7.36Y	122.6	0.00	2.36	1.23	1	9	2	98	0.00	0.0	6.171	0.156	9	2	1	1
PL.49316	PL.49629	A	6 A (CWC)	7.36Y	122.7	0.01	2.29	26.45	19	189	45	97	0.01	0.0	5.846	0.007	0	0	0	32
PD.7699	PL.49316	A	25T	7.36Y	122.7	0.00	2.29	26.45	0	189	45	97	0.00	0.0	5.846	0.007	0	0	0	32
PL.49625	PD.7699	A	6 A (CWC)	7.36Y	122.6	0.07	2.37	26.45	19	189	45	97	0.11	0.1	5.908	0.062	0	0	0	32
PL.49900	PL.49625	A	6 A (CWC)	7.35Y	122.6	0.05	2.42	22.68	16	162	39	97	0.06	0.0	5.962	0.054	9	2	1	24
PL.49899	PL.49900	A	6 A (CWC)	7.35Y	122.5	0.06	2.48	21.36	15	153	36	97	0.07	0.0	6.027	0.064	7	2	1	23
PL.57566	PL.49899	A	6 A (CWC)	7.35Y	122.5	0.04	2.53	20.34	15	145	35	97	0.05	0.0	6.076	0.049	12	3	2	22
PL.57565	PL.57566	A	6 A (CWC)	7.34Y	122.4	0.06	2.59	18.65	13	133	32	97	0.06	0.0	6.148	0.071	0	0	0	20
PL.50086	PL.57565	A	#1/0 ACSR	7.34Y	122.4	0.00	2.59	2.35	1	17	4	97	0.00	0.0	6.247	0.100	17	4	2	2
PL.50059	PL.57565	A	6 A (CWC)	7.34Y	122.3	0.07	2.65	16.31	12	117	28	97	0.06	0.0	6.245	0.097	17	4	3	18
PL.49898	PL.50059	A	6 A (CWC)	7.34Y	122.3	0.05	2.71	13.94	10	100	24	97	0.04	0.0	6.329	0.085	0	0	0	15
PL.49896	PL.49898	A	6 A (CWC)	7.34Y	122.3	0.00	2.71	0.64	0	5	1	98	0.00	0.0	6.362	0.032	0	0	0	2
PL.49897	PL.49896	A	6 A (CWC)	7.34Y	122.3	0.00	2.71	0.64	0	5	1	98	0.00	0.0	6.484	0.122	4	1	1	2
PL.49894	PL.49897	A	6 A (CWC)	7.34Y	122.3	0.00	2.71	0.09	0	1	0	100	0.00	0.0	6.562	0.078	1	0	1	1
PL.49895	PL.49894	A	6 A (CWC)	7.34Y	122.3	0.00	2.71	0.00	0	0	0	100	0.00	0.0	6.944	0.381	0	0	0	0
PL.49893	PL.49898	A	6 A (CWC)	7.33Y	122.2	0.13	2.83	13.29	9	95	23	97	0.09	0.1	6.539	0.209	0	0	0	13
PL.49892	PL.49893	A	6 A (CWC)	7.33Y	122.1	0.06	2.89	13.29	9	95	22	97	0.04	0.0	6.637	0.099	0	0	0	13
PL.49891	PL.49892	A	6 A (CWC)	7.33Y	122.1	0.02	2.91	7.20	5	51	12	97	0.01	0.0	6.715	0.078	9	2	1	7
PL.49890	PL.49891	A	6 A (CWC)	7.32Y	122.1	0.02	2.94	5.93	4	42	10	97	0.01	0.0	6.802	0.087	0	0	0	6
PL.49889	PL.49890	A	6 A (CWC)	7.32Y	122.0	0.03	2.97	5.93	4	42	10	97	0.01	0.0	6.913	0.111	0	0	0	6

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.50088	PL.49889	A	6 A (CWC)	7.32Y	122.0	0.00	2.97	0.60	0	4	1	97	0.00	0.0	6.944	0.031	4	1	2	2
PL.49888	PL.49889	A	6 A (CWC)	7.32Y	122.0	0.02	2.98	4.29	3	31	7	98	0.00	0.0	7.030	0.117	15	3	1	3
PL.49887	PL.49888	A	6 A (CWC)	7.32Y	122.0	0.01	2.99	2.24	2	16	4	97	0.00	0.0	7.117	0.086	0	0	0	2
PL.49886	PL.49887	A	6 A (CWC)	7.32Y	122.0	0.03	3.02	2.24	2	16	4	97	0.00	0.0	7.366	0.249	0	0	0	2
PL.49599	PL.49886	A	6 A (CWC)	7.32Y	122.0	0.00	3.02	0.62	0	4	1	97	0.00	0.0	7.577	0.212	4	1	1	1
PL.49747	PL.49599	A	6 A (CWC)	7.32Y	122.0	0.00	3.02	0.00	0	0	0	100	0.00	0.0	7.751	0.173	0	0	0	0
PL.60785	PL.49886	A	#4 ACSR	7.32Y	122.0	0.00	3.02	1.62	1	12	3	97	0.00	0.0	7.441	0.075	12	3	1	1
PL.49761	PL.49889	A	6 A (CWC)	7.32Y	122.0	0.00	2.97	1.04	1	7	2	96	0.00	0.0	6.991	0.078	7	2	1	1
PL.60786	PL.49892	A	#4 ACSR	7.32Y	122.0	0.06	2.95	6.09	5	43	10	97	0.02	0.0	6.876	0.239	0	0	1	6
PL.60336	PL.60786	A	#1/0 ACSR	7.32Y	122.0	0.01	2.96	3.77	2	27	6	98	0.00	0.0	6.981	0.105	4	1	1	4
PL.60337	PL.60336	A	#1/0 ACSR	7.32Y	122.0	0.00	2.96	3.27	1	23	6	97	0.00	0.0	6.984	0.003	0	0	0	3
PD.9073	PL.60337	A	30T	7.32Y	122.0	0.00	2.96	3.27	0	23	6	97	0.00	0.0	6.984	0.003	0	0	0	3
PL.60338	PD.9073	A	#1/0 ACSR	7.32Y	122.0	0.02	2.98	3.27	1	23	6	97	0.00	0.0	7.311	0.327	15	4	1	3
PL.60339	PL.60338	A	#1/0 ACSR	7.32Y	122.0	0.00	2.98	1.15	0	8	2	97	0.00	0.0	7.365	0.054	8	2	2	2
PL.60787	PL.60786	A	#4 ACSR	7.32Y	122.0	0.00	2.96	2.31	2	16	4	97	0.00	0.0	6.962	0.086	16	4	1	1
PL.50055	PL.49625	A	#2 ACSR	7.36Y	122.6	0.00	2.37	0.74	0	5	1	98	0.00	0.0	5.939	0.031	5	1	1	1
PL.49901	PL.49625	A	6 A (CWC)	7.36Y	122.6	0.00	2.37	1.23	1	9	2	98	0.00	0.0	5.969	0.061	0	0	0	2
PL.49624	PL.49901	A	6 A (CWC)	7.36Y	122.6	0.00	2.37	1.23	1	9	2	98	0.00	0.0	6.014	0.045	9	2	2	2
PL.50281	PL.49625	A	#4 ACSR	7.36Y	122.6	0.00	2.37	1.80	1	13	3	97	0.00	0.0	5.961	0.053	13	3	5	5
PL.50790	PL.50794	C	#2 ACSR	7.39Y	123.2	0.00	1.83	0.00	0	0	0	100	0.00	0.0	5.292	0.002	0	0	0	0
PD.7715	PL.50790	C	25QA	7.39Y	123.2	0.00	1.83	0.00	0	0	0	100	0.00	0.0	5.292	0.002	0	0	0	0
PL.50791	PD.7715	C	#2 ACSR	7.39Y	123.2	0.00	1.83	0.00	0	0	0	100	0.00	0.0	5.364	0.071	0	0	0	0
PL.49739	PL.52510	C	#4 ACSR	7.30Y	121.7	0.00	3.27	15.98	12	114	27	97	0.00	0.0	2.596	0.004	0	0	0	10
PD.7707	PL.49739	C	60QA	7.30Y	121.7	0.00	3.27	15.98	27	114	27	97	0.00	0.0	2.596	0.004	0	0	0	10
PL.49740	PD.7707	C	#4 ACSR	7.30Y	121.7	0.02	3.29	15.98	12	114	27	97	0.02	0.0	2.621	0.025	3	1	1	10
PL.49741	PL.49740	C	#4 ACSR	7.30Y	121.7	0.04	3.33	15.59	12	111	26	97	0.03	0.0	2.683	0.062	23	6	2	9
PL.49743	PL.49741	C	#4 ACSR	7.30Y	121.7	0.01	3.34	12.29	9	87	21	97	0.01	0.0	2.713	0.030	26	6	2	7
PL.50154	PL.49743	C	#4 ACSR	7.30Y	121.6	0.02	3.37	8.61	7	61	14	97	0.01	0.0	2.774	0.061	0	0	0	5
PL.50068	PL.50154	C	#4 ACSR	7.30Y	121.6	0.00	3.37	5.58	4	40	9	98	0.00	0.0	2.789	0.015	40	9	3	3
PL.50155	PL.50154	C	#4 ACSR	7.30Y	121.6	0.00	3.37	3.03	2	22	5	98	0.00	0.0	2.794	0.021	22	5	2	2
PL.50156	PL.50155	C	#4 ACSR	7.30Y	121.6	0.00	3.37	0.00	0	0	0	100	0.00	0.0	2.840	0.046	0	0	0	0

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.52511	PL.52514	ABC	#1/0 ACSR	7.31Y	121.8	0.03	3.16	17.49	8	373	88	97	0.08	0.0	2.546	0.095	0	0	0	34
PL.49585	PL.52511	A	#2 ACSR	7.31Y	121.8	0.00	3.16	2.14	1	15	4	97	0.00	0.0	2.547	0.001	0	0	0	1
PD.7664	PL.49585	A	60QA	7.31Y	121.8	0.00	3.16	2.14	4	15	4	97	0.00	0.0	2.547	0.001	0	0	0	1
PL.50394	PD.7664	A	#2 ACSR	7.31Y	121.8	0.00	3.16	2.14	1	15	4	97	0.00	0.0	2.580	0.033	15	4	1	1
PL.49584	PL.52511	ABC	#1/0 ACSR	7.31Y	121.8	0.01	3.17	16.77	7	358	85	97	0.02	0.0	2.579	0.033	0	0	0	33
PL.49581	PL.49584	ABC	#1/0 ACSR	7.31Y	121.8	0.01	3.18	15.79	7	337	80	97	0.03	0.0	2.624	0.045	0	0	0	31
PL.49579	PL.49581	ABC	#4 ACSR	7.31Y	121.8	0.00	3.18	0.96	1	20	5	97	0.00	0.0	2.662	0.037	13	3	1	2
PL.49580	PL.49579	ABC	#4 ACSR	7.31Y	121.8	0.00	3.18	0.33	0	7	2	96	0.00	0.0	2.724	0.063	7	2	1	1
PL.49577	PL.49581	ABC	#4 ACSR	7.31Y	121.8	0.02	3.20	14.83	11	316	75	97	0.04	0.0	2.653	0.029	15	4	2	29
PL.49578	PL.49577	ABC	#4 ACSR	7.31Y	121.8	0.00	3.20	14.13	11	301	71	97	0.01	0.0	2.660	0.007	0	0	0	27
PL.49576	PL.49578	ABC	#4 ACSR	7.31Y	121.8	0.02	3.22	14.13	11	301	71	97	0.04	0.0	2.690	0.030	9	2	1	27
PL.49574	PL.49576	ABC	#4 ACSR	7.31Y	121.8	0.01	3.23	13.68	11	292	69	97	0.03	0.0	2.719	0.029	0	0	0	26
PL.49575	PL.49574	ABC	#4 ACSR	7.31Y	121.8	0.00	3.24	13.68	11	292	69	97	0.01	0.0	2.728	0.009	0	0	0	26
PL.49573	PL.49575	ABC	#4 ACSR	7.30Y	121.7	0.02	3.26	13.68	11	292	69	97	0.04	0.0	2.765	0.037	9	2	2	26
PL.49876	PL.49573	C	#2 ACSR	7.30Y	121.7	0.00	3.26	1.27	1	9	2	98	0.00	0.0	2.767	0.003	0	0	0	1
PD.7630	PL.49876	C	15T	7.30Y	121.7	0.00	3.26	1.27	0	9	2	98	0.00	0.0	2.767	0.003	0	0	0	1
PL.49877	PD.7630	C	#2 ACSR	7.30Y	121.7	0.00	3.26	1.27	1	9	2	98	0.00	0.0	2.778	0.011	9	2	1	1
PL.49875	PL.49573	ABC	#4 ACSR	7.30Y	121.7	0.03	3.29	12.83	10	274	65	97	0.06	0.0	2.827	0.062	31	7	2	23
PL.49874	PL.49875	ABC	#4 ACSR	7.30Y	121.7	0.02	3.30	11.36	9	242	57	97	0.03	0.0	2.868	0.041	3	1	1	21
PL.49478	PL.49874	ABC	#4 ACSR	7.30Y	121.7	0.01	3.31	8.88	7	189	45	97	0.01	0.0	2.899	0.031	16	4	1	17
PL.49450	PL.49478	ABC	#4 ACSR	7.30Y	121.7	0.02	3.33	8.15	6	174	41	97	0.02	0.0	2.954	0.055	0	0	1	16
PL.60866	PL.49450	ABC	#4 ACSR	7.30Y	121.6	0.03	3.36	7.49	6	160	38	97	0.04	0.0	3.071	0.117	33	8	2	14
PL.60865	PL.60866	ABC	#4 ACSR	7.30Y	121.6	0.03	3.39	5.95	5	127	30	97	0.03	0.0	3.221	0.150	6	1	1	12
PL.49680	PL.60865	A	#4 ACSR	7.30Y	121.6	0.00	3.39	2.89	2	20	5	97	0.00	0.0	3.245	0.024	20	5	1	1
PL.49445	PL.60865	ABC	#4 ACSR	7.30Y	121.6	0.01	3.40	2.20	2	47	11	97	0.00	0.0	3.315	0.094	2	1	1	5
PL.49444	PL.49445	ABC	#4 ACSR	7.30Y	121.6	0.00	3.40	2.08	2	44	11	97	0.00	0.0	3.367	0.052	0	0	0	4
PL.49442	PL.49444	A	6 A (CWC)	7.29Y	121.6	0.02	3.42	6.25	4	44	11	97	0.01	0.0	3.455	0.088	24	6	2	4
PL.49443	PL.49442	A	6 A (CWC)	7.29Y	121.6	0.00	3.42	0.00	0	0	0	100	0.00	0.0	3.542	0.087	0	0	0	0
PL.49679	PL.49442	A	6 A (CWC)	7.29Y	121.6	0.00	3.42	2.94	2	21	5	97	0.00	0.0	3.493	0.038	21	5	2	2
PL.49446	PL.60865	A	6 A (CWC)	7.30Y	121.6	0.00	3.40	7.56	5	54	13	97	0.00	0.0	3.229	0.008	0	0	0	5
PD.7621	PL.49446	A	40QA	7.30Y	121.6	0.00	3.40	7.56	19	54	13	97	0.00	0.0	3.229	0.008	0	0	0	5

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.49447	PD.7621	A	6 A (CWC)	7.30Y	121.6	0.02	3.41	7.56	5	54	13	97	0.01	0.0	3.288	0.059	9	2	1	5
PL.50129	PL.49447	A	6 A (CWC)	7.29Y	121.6	0.02	3.43	6.27	4	45	11	97	0.01	0.0	3.357	0.068	10	2	1	4
PL.50130	PL.50129	A	6 A (CWC)	7.29Y	121.6	0.01	3.44	4.82	3	34	8	97	0.00	0.0	3.425	0.068	34	8	3	3
PL.49448	PL.49450	B	#4 ACSR	7.30Y	121.7	0.00	3.33	1.90	1	13	3	97	0.00	0.0	2.957	0.004	0	0	0	1
PD.7655	PL.49448	B	40QA	7.30Y	121.7	0.00	3.33	1.90	5	13	3	97	0.00	0.0	2.957	0.004	0	0	0	1
PL.49449	PD.7655	B	#4 ACSR	7.30Y	121.7	0.00	3.33	1.90	1	13	3	97	0.00	0.0	3.017	0.060	13	3	1	1
PL.49872	PL.49874	B	#4 ACSR	7.30Y	121.7	0.00	3.30	7.07	5	50	12	97	0.00	0.0	2.872	0.004	0	0	0	3
PD.7622	PL.49872	B	40QA	7.30Y	121.7	0.00	3.30	7.07	18	50	12	97	0.00	0.0	2.872	0.004	0	0	0	3
PL.49873	PD.7622	B	#4 ACSR	7.30Y	121.7	0.01	3.31	7.07	5	50	12	97	0.00	0.0	2.915	0.043	34	8	2	3
PL.49871	PL.49873	B	#4 ACSR	7.30Y	121.7	0.00	3.32	2.32	2	16	4	97	0.00	0.0	2.972	0.057	16	4	1	1
PL.49582	PL.49584	A	#2 ACSR	7.31Y	121.8	0.00	3.17	2.96	2	21	5	97	0.00	0.0	2.581	0.002	0	0	0	2
PD.7629	PL.49582	A	60QA	7.31Y	121.8	0.00	3.17	2.96	5	21	5	97	0.00	0.0	2.581	0.002	0	0	0	2
PL.49583	PD.7629	A	#2 ACSR	7.31Y	121.8	0.00	3.17	2.96	2	21	5	97	0.00	0.0	2.608	0.027	21	5	2	2
PL.52512	PL.52514	ABC	336 MCM AC	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	2.457	0.006	0	0	0	0
PD.7690	PL.52512	B	60QA	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	2.457	0.006	0	0	0	0
PL.50395	PD.7690	B	336 MCM AC	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	2.464	0.008	0	0	0	0
PL.50070	PL.50395	B	#1/0 ACSR	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	2.527	0.063	0	0	0	0
CP.75	PL.52513	ABC	Cap (300)	7.32Y	122.0	0.00	3.01	0.00	0	0	0	100	0.00	0.0	2.337	0.063	0	0	0	0
PL.50398	PL.50401	C	#2 ACSR	7.33Y	122.1	0.00	2.88	5.43	3	39	9	97	0.00	0.0	2.230	0.002	0	0	0	3
PD.7632	PL.50398	C	60QA	7.33Y	122.1	0.00	2.88	5.43	9	39	9	97	0.00	0.0	2.230	0.002	0	0	0	3
PL.50399	PD.7632	C	#2 ACSR	7.33Y	122.1	0.00	2.89	5.43	3	39	9	97	0.00	0.0	2.262	0.032	13	3	1	3
PL.50319	PL.50399	C	#2 ACSR	7.33Y	122.1	0.00	2.89	3.62	2	26	6	97	0.00	0.0	2.298	0.035	26	6	2	2
PL.50320	PL.50319	C	#2 ACSR	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	2.326	0.028	0	0	0	0
PL.49612	PL.50400	A	#2 ACSR	7.33Y	122.2	0.00	2.82	2.79	2	20	5	97	0.00	0.0	2.180	0.008	0	0	0	1
PD.7631	PL.49612	A	60QA	7.33Y	122.2	0.00	2.82	2.79	5	20	5	97	0.00	0.0	2.180	0.008	0	0	0	1
PL.49613	PD.7631	A	#4 ACSR	7.33Y	122.2	0.00	2.82	2.79	2	20	5	97	0.00	0.0	2.201	0.021	20	5	1	1
PL.49520	PL.49753	A	#2 ACSR	7.37Y	122.8	0.00	2.22	1.13	1	8	2	97	0.00	0.0	1.659	0.003	0	0	0	1
PD.7705	PL.49520	A	40QA	7.37Y	122.8	0.00	2.22	1.13	3	8	2	97	0.00	0.0	1.659	0.003	0	0	0	1
PL.49731	PD.7705	A	#2 ACSR	7.37Y	122.8	0.00	2.22	1.13	1	8	2	97	0.00	0.0	1.700	0.041	8	2	1	1
PL.62105	PL.49754	ABC	#1/0 ACSR	7.37Y	122.9	0.00	2.09	7.34	3	146	71	90	0.00	0.0	1.548	0.003	0	0	0	1
PD.9367	PL.62105	ABC	50T	7.37Y	122.9	0.00	2.09	7.34	0	146	71	90	0.00	0.0	1.548	0.003	0	0	0	1

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

Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.62106	PD.9367	ABC	#1/0 ACSR	7.37Y	122.9	0.00	2.09	7.34	3	146	71	90	0.00	0.0	1.576	0.028	146	71	1	1
PL.50093	PL.49755	A	#2 ACSR	7.40Y	123.3	0.00	1.73	1.29	1	9	2	98	0.00	0.0	1.281	0.024	9	2	1	1
PL.50406	PL.50410	C	#2 ACSR	7.41Y	123.5	0.00	1.49	0.00	0	0	0	100	0.00	0.0	1.074	0.003	0	0	0	0
PD.7665	PL.50406	C	60QA	7.41Y	123.5	0.00	1.49	0.00	0	0	0	100	0.00	0.0	1.074	0.003	0	0	0	0
PL.50407	PD.7665	C	#2 ACSR	7.41Y	123.5	0.00	1.49	0.00	0	0	0	100	0.00	0.0	1.091	0.017	0	0	0	0
PL.50408	PL.50407	C	#2 ACSR	7.41Y	123.5	0.00	1.49	0.00	0	0	0	100	0.00	0.0	1.105	0.013	0	0	0	0
PL.50414	PL.50413	C	#4 ACSR	7.43Y	123.9	0.00	1.12	9.16	7	66	16	97	0.00	0.0	0.777	0.004	0	0	0	6
PD.7640	PL.50414	C	25T	7.43Y	123.9	0.00	1.12	9.16	0	66	16	97	0.00	0.0	0.777	0.004	0	0	0	6
PL.50415	PD.7640	C	#4 ACSR	7.43Y	123.9	0.01	1.13	9.16	7	66	16	97	0.01	0.0	0.804	0.027	3	1	1	6
PL.50067	PL.50415	C	#2 ACSR	7.43Y	123.9	0.00	1.13	5.00	3	36	9	97	0.00	0.0	0.829	0.025	36	9	3	3
PL.50416	PL.50415	C	#4 ACSR	7.43Y	123.9	0.00	1.13	3.74	3	27	6	98	0.00	0.0	0.833	0.029	27	6	2	2
PL.53765	PL.50423	C	#2 ACSR	7.44Y	124.0	0.01	0.96	39.04	22	283	67	97	0.01	0.0	0.659	0.005	0	0	0	21
PD.7928	PL.53765	C	50T	7.44Y	124.0	0.00	0.96	39.04	0	283	67	97	0.00	0.0	0.659	0.005	0	0	0	21
PL.53766	PD.7928	C	#2 ACSR	7.44Y	124.0	0.09	1.05	39.04	22	283	67	97	0.17	0.1	0.730	0.071	0	0	0	21
PL.50145	PL.53766	C	#2 ACSR	7.43Y	123.9	0.04	1.09	39.04	22	283	67	97	0.09	0.0	0.766	0.036	3	1	1	21
PL.50146	PL.50145	C	#2 ACSR	7.43Y	123.9	0.04	1.13	38.59	22	279	66	97	0.08	0.0	0.797	0.032	0	0	0	20
PL.50149	PL.50146	C	6 A (CWC)	7.43Y	123.9	0.01	1.14	5.68	4	41	10	97	0.00	0.0	0.834	0.037	14	3	1	2
PL.50150	PL.50149	C	6 A (CWC)	7.43Y	123.9	0.00	1.14	3.73	3	27	6	98	0.00	0.0	0.864	0.030	27	6	1	1
PL.50147	PL.50146	C	#2 ACSR	7.43Y	123.9	0.02	1.15	32.91	19	238	56	97	0.03	0.0	0.816	0.019	27	6	1	18
PL.50148	PL.50147	C	#2 ACSR	7.43Y	123.8	0.06	1.21	29.14	17	211	50	97	0.09	0.0	0.883	0.067	11	3	1	17
PL.50151	PL.50148	C	6 A (CWC)	7.43Y	123.8	0.02	1.22	7.78	6	56	13	97	0.01	0.0	0.933	0.050	10	2	1	4
PL.50152	PL.50151	C	6 A (CWC)	7.43Y	123.8	0.01	1.24	6.40	5	46	11	97	0.00	0.0	0.982	0.049	0	0	0	3
PL.49734	PL.50152	C	6 A (CWC)	7.42Y	123.7	0.02	1.26	4.77	3	34	8	97	0.00	0.0	1.100	0.118	12	3	1	2
PL.49735	PL.49734	C	6 A (CWC)	7.42Y	123.7	0.00	1.26	3.17	2	23	5	98	0.00	0.0	1.153	0.053	23	5	1	1
PL.50225	PL.50152	C	6 A (CWC)	7.43Y	123.8	0.00	1.24	1.63	1	12	3	97	0.00	0.0	1.013	0.030	12	3	1	1
PL.50106	PL.50148	C	#2 ACSR	7.42Y	123.7	0.04	1.25	19.88	11	144	34	97	0.04	0.0	0.951	0.068	0	0	0	12
PL.49736	PL.50106	C	#2 ACSR	7.42Y	123.7	0.01	1.26	6.76	4	49	12	97	0.00	0.0	1.022	0.070	12	3	1	5
PL.50098	PL.49736	C	#4 ACSR	7.42Y	123.7	0.00	1.27	1.73	1	13	3	97	0.00	0.0	1.074	0.052	13	3	1	1
PL.49737	PL.49736	C	#2 ACSR	7.42Y	123.7	0.00	1.27	3.41	2	25	6	97	0.00	0.0	1.055	0.033	13	3	1	3
PL.49738	PL.49737	C	#2 ACSR	7.42Y	123.7	0.00	1.27	1.65	1	12	3	97	0.00	0.0	1.108	0.054	12	3	2	2
PL.50121	PL.50106	C	6 A (CWC)	7.42Y	123.7	0.05	1.30	13.12	9	95	22	97	0.03	0.0	1.038	0.086	6	1	2	7

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Balanced Voltage Drop Report
Source: Maretburg

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.63658	PL.50121	C	6 A (CWC)	7.42Y	123.7	0.02	1.32	9.86	7	71	17	97	0.01	0.0	1.107	0.070	47	11	3	4
PL.63659	PL.63658	C	6 A (CWC)	7.42Y	123.7	0.01	1.33	3.33	2	24	6	97	0.00	0.0	1.176	0.068	24	6	1	1
PL.50138	PL.50121	C	6 A (CWC)	7.42Y	123.7	0.00	1.30	2.47	2	18	4	98	0.00	0.0	1.072	0.035	18	4	1	1
PL.50097	PL.53766	C	#2 ACSR	7.44Y	124.0	0.00	1.05	0.00	0	0	0	100	0.00	0.0	0.748	0.018	0	0	0	0
PL.57271	PL.57269	ABC	336 MCM AC	7.50Y	125.0	0.00	0.03	0.00	0	0	0	100	0.00	0.0	0.054	0.035	0	0	0	0
PL.57272	PL.57271	ABC	336 MCM AC	7.50Y	125.0	0.00	0.03	0.00	0	0	0	100	0.00	0.0	0.096	0.042	0	0	0	0

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	11016	0	0	0	0	0	180	0.00	11196
KVAR	3387	0	0	0	0	0	314		3701

Lowest Voltage = 118.82 on Element PL.60863
Max Accm VoltD = 6.18 on Element PL.60863
Max Elem VoltD = 0.68 on Element PL.60874