Balanced Voltage Drop Report
Source: Sand Gap

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
Sand Gap		ABC	SRC-Sand G	7.50Y	125.0	0.00	0.00	313.74	0	6703	2215	95	0.00	0.0	0.000	0.000	0	0	0	1557
PL.28491	Sand Gap	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	133.13	26	2856	905	95	0.01	0.0	0.006	0.006	0	0	0	660
PL.33039	PL.28491	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	133.13	26	2856	904	95	0.00	0.0	0.007	0.002	0	0	0	660
---------- Feeder No. 3 (Deer Stable F3) Beginning with Device PD.5677 ----------																				
PD.5677	PL.33039	ABC	400VWE	7.50Y	125.0	0.00	0.00	133.13	0	2855	904	95	0.00	0.0	0.007	0.002	0	0	0	660
PL.28492	PD.5677	ABC	397 SPACER	7.50Y	125.0	0.01	0.01	133.13	26	2855	904	95	0.03	0.0	0.020	0.013	0	0	0	660
PL.29129	PL.28492	C	#1/0 ACSR	7.50Y	125.0	0.01	0.02	21.78	9	156	47	96	0.01	0.0	0.038	0.017	0	0	0	56
PL.29135	PL.29129	C	#4 ACSR	7.50Y	125.0	0.00	0.02	21.78	17	156	47	96	0.00	0.0	0.040	0.003	0	0	0	56
PD.4091	PL.29135	C	100L	7.50Y	125.0	0.00	0.02	21.78	22	156	47	96	0.00	0.0	0.040	0.003	0	0	0	56
PL.29516	PD.4091	C	#1/0 ACSR	7.50Y	124.9	0.04	0.06	20.21	9	145	44	96	0.04	0.0	0.122	0.082	9	3	2	53
PL.29517	PL.29516	C	#1/0 ACSR	7.50Y	124.9	0.01	0.07	19.01	8	136	41	96	0.01	0.0	0.144	0.021	7	2	1	51
PL.29521	PL.29517	C	#1/0 ACSR	7.49Y	124.9	0.08	0.14	17.99	8	129	39	96	0.06	0.0	0.321	0.178	0	0	1	50
PL.29522	PL.29521	C	#1/0 ACSR	7.49Y	124.8	0.02	0.16	17.99	8	129	39	96	0.01	0.0	0.360	0.039	13	4	1	49
PL.29523	PL.29522	C	#1/0 ACSR	7.49Y	124.8	0.05	0.21	16.24	7	116	35	96	0.04	0.0	0.484	0.124	0	0	0	48
PL.29327	PL.29523	C	#1/0 ACSR	7.48Y	124.7	0.06	0.26	16.24	7	116	35	96	0.04	0.0	0.630	0.145	1	0	1	48
PL.29524	PL.29327	C	#1/0 ACSR	7.48Y	124.7	0.02	0.29	16.11	7	115	35	96	0.02	0.0	0.689	0.059	7	2	4	47
PL.29525	PL.29524	C	#1/0 ACSR	7.48Y	124.7	0.04	0.32	15.11	7	108	33	96	0.03	0.0	0.791	0.103	0	0	0	43
PL.29328	PL.29525	C	#1/0 ACSR	7.48Y	124.6	0.06	0.38	15.11	7	108	33	96	0.04	0.0	0.957	0.166	0	0	0	43
PL.29630	PL.29328	C	#4 ACSR	7.48Y	124.6	0.00	0.39	2.56	2	18	5	96	0.00	0.0	0.962	0.005	0	0	0	10
PD.4066	PL.29630	C	40T	7.48Y	124.6	0.00	0.39	2.56	0	18	5	96	0.00	0.0	0.962	0.005	0	0	0	10
PL.29631	PD.4066	C	#4 ACSR	7.48Y	124.6	0.00	0.39	2.56	2	18	5	96	0.00	0.0	0.992	0.030	0	0	0	10
PL.29526	PL.29631	C	#4 ACSR	7.48Y	124.6	0.00	0.39	2.56	2	18	5	96	0.00	0.0	1.016	0.025	0	0	5	10
PL.29520	PL.29526	C	#4 ACSR	7.48Y	124.6	0.00	0.40	2.56	2	18	5	96	0.00	0.0	1.075	0.058	10	3	3	5
PL.29518	PL.29520	C	#1/0 ACSR	7.48Y	124.6	0.00	0.40	1.15	1	8	2	97	0.00	0.0	1.220	0.145	0	0	1	2
PL.29519	PL.29518	C	#1/0 ACSR	7.48Y	124.6	0.00	0.40	1.14	0	8	2	97	0.00	0.0	1.270	0.050	8	2	1	1
PL.29254	PL.29328	C	#1/0 ACSR	7.48Y	124.6	0.02	0.41	12.55	5	90	27	96	0.01	0.0	1.038	0.081	11	3	2	33
PL.29255	PL.29254	C	#1/0 ACSR	7.47Y	124.6	0.04	0.45	9.74	4	70	21	96	0.02	0.0	1.193	0.154	0	0	0	30
PL.29329	PL.29255	C	#1/0 ACSR	7.47Y	124.5	0.02	0.47	9.74	4	70	21	96	0.01	0.0	1.293	0.101	0	0	0	30
PL.29369	PL.29329	C	#1/0 ACSR	7.47Y	124.5	0.02	0.49	9.74	4	70	21	96	0.01	0.0	1.389	0.096	0	0	0	30
PL.29634	PL.29369	C	6 A (CWC)	7.47Y	124.5	0.00	0.49	0.67	0	5	1	98	0.00	0.0	1.394	0.005	0	0	0	3

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

Balanced Voltage Drop Report
Source: Sand Gap

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.4068	PL.29634	C	40T	7.47Y	124.5	0.00	0.49	0.67	0	5	1	98	0.00	0.0	1.394	0.005	0	0	0	3
PL.29635	PD.4068	C	6 A (CWC)	7.47Y	124.5	0.00	0.49	0.67	0	5	1	98	0.00	0.0	1.459	0.065	0	0	0	3
PL.29256	PL.29635	C	6 A (CWC)	7.47Y	124.5	0.00	0.49	0.65	0	5	1	98	0.00	0.0	1.484	0.025	1	0	1	2
PL.29542	PL.29256	C	#4 ACSR	7.47Y	124.5	0.00	0.50	0.51	0	4	1	97	0.00	0.0	1.515	0.031	0	0	0	1
PL.29543	PL.29542	C	#4 ACSR	7.47Y	124.5	0.00	0.50	0.51	0	4	1	97	0.00	0.0	1.574	0.059	4	1	1	1
PL.29136	PL.29635	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.02	0	0	0	100	0.00	0.0	1.492	0.033	0	0	1	1
PL.29544	PL.29369	C	#1/0 ACSR	7.47Y	124.5	0.04	0.53	9.07	4	65	19	96	0.02	0.0	1.575	0.186	0	0	0	27
PL.29545	PL.29544	C	#1/0 ACSR	7.47Y	124.4	0.04	0.57	9.07	4	65	19	96	0.02	0.0	1.739	0.164	0	0	0	27
PL.29546	PL.29545	C	#1/0 ACSR	7.46Y	124.4	0.02	0.59	9.07	4	65	19	96	0.01	0.0	1.833	0.093	0	0	0	27
PL.29389	PL.29546	C	#1/0 ACSR	7.46Y	124.4	0.02	0.61	9.07	4	65	19	96	0.01	0.0	1.934	0.101	4	1	2	27
PL.29665	PL.29389	C	#1/0 ACSR	7.46Y	124.4	0.03	0.64	8.56	4	61	18	96	0.01	0.0	2.083	0.150	0	0	0	25
PD.4087-A	PL.29665	C	Closed	7.46Y	124.4	0.00	0.64	8.56	0	61	18	96	0.00	0.0	2.083	0.150	0	0	0	25
PD.4087-B	PD.4087-A	C	Closed	7.46Y	124.4	0.00	0.64	8.56	0	61	18	96	0.00	0.0	2.083	0.150	0	0	0	25
PL.29666	PD.4087-B	C	#1/0 ACSR	7.46Y	124.3	0.04	0.68	8.56	4	61	18	96	0.01	0.0	2.260	0.177	0	0	0	25
PL.29137	PL.29666	C	#4 ACSR	7.46Y	124.3	0.01	0.69	1.35	1	10	3	96	0.00	0.0	2.351	0.091	0	0	0	2
PL.29330	PL.29137	C	#4 ACSR	7.46Y	124.3	0.00	0.69	1.35	1	10	3	96	0.00	0.0	2.473	0.121	10	3	2	2
PL.29257	PL.29666	C	#1/0 ACSR	7.46Y	124.3	0.03	0.71	7.21	3	51	15	96	0.01	0.0	2.414	0.154	0	0	0	23
PL.29331	PL.29257	C	#1/0 ACSR	7.46Y	124.3	0.02	0.73	7.21	3	51	15	96	0.01	0.0	2.551	0.136	0	0	0	23
PL.29332	PL.29331	C	#1/0 ACSR	7.45Y	124.2	0.02	0.75	7.21	3	51	15	96	0.01	0.0	2.660	0.110	0	0	0	23
PL.29368	PL.29332	C	#1/0 ACSR	7.45Y	124.2	0.02	0.77	7.21	3	51	15	96	0.01	0.0	2.751	0.091	0	0	0	23
PL.29258	PL.29368	C	#1/0 ACSR	7.45Y	124.2	0.01	0.78	7.21	3	51	15	96	0.00	0.0	2.835	0.084	0	0	0	22
PL.29673	PL.29258	C	6 A (CWC)	7.45Y	124.2	0.00	0.78	6.16	4	44	13	96	0.00	0.0	2.838	0.003	0	0	0	21
PD.4092	PL.29673	C	50L	7.45Y	124.2	0.00	0.78	6.16	12	44	13	96	0.00	0.0	2.838	0.003	0	0	0	21
PL.29674	PD.4092	C	6 A (CWC)	7.45Y	124.2	0.02	0.80	6.16	4	44	13	96	0.01	0.0	2.905	0.067	3	1	2	21
PL.29259	PL.29674	C	6 A (CWC)	7.45Y	124.2	0.02	0.82	5.79	4	41	12	96	0.00	0.0	2.965	0.061	0	0	0	19
PL.29138	PL.29259	C	6 A (CWC)	7.45Y	124.2	0.02	0.84	5.79	4	41	12	96	0.01	0.0	3.036	0.071	0	0	0	19
PL.29253	PL.29138	C	6 A (CWC)	7.45Y	124.1	0.04	0.88	5.25	4	37	11	96	0.01	0.0	3.204	0.167	0	0	0	18
PL.28385	PL.29253	C	#4 ACSR	7.45Y	124.1	0.01	0.88	1.55	1	11	3	96	0.00	0.0	3.369	0.165	11	3	2	2
PL.29260	PL.29253	C	6 A (CWC)	7.45Y	124.1	0.02	0.89	3.71	3	26	8	96	0.00	0.0	3.309	0.105	0	0	0	16
PL.29650	PL.29260	C	#4 ACSR	7.45Y	124.1	0.00	0.89	0.00	0	0	0	100	0.00	0.0	3.313	0.004	0	0	0	0
PD.4078	PL.29650	C	20T	7.45Y	124.1	0.00	0.89	0.00	0	0	0	100	0.00	0.0	3.313	0.004	0	0	0	0

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Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.29651	PD.4078	C	#4 ACSR	7.45Y	124.1	0.00	0.89	0.00	0	0	0	100	0.00	0.0	3.371	0.058	0	0	0	0
PL.28386	PL.29260	C	#2 ACSR	7.45Y	124.1	0.00	0.89	3.71	2	26	8	96	0.00	0.0	3.313	0.004	0	0	0	16
PD.4071	PL.28386	C	20T	7.45Y	124.1	0.00	0.89	3.71	0	26	8	96	0.00	0.0	3.313	0.004	0	0	0	16
PL.29261	PD.4071	C	#2 ACSR	7.45Y	124.1	0.00	0.90	0.55	0	4	1	97	0.00	0.0	3.473	0.160	4	1	1	1
PL.29390	PD.4071	C	#1/0 ACSR	7.45Y	124.1	0.01	0.91	3.16	1	23	7	96	0.00	0.0	3.458	0.145	0	0	1	15
PL.29547	PL.29390	C	#1/0 ACSR	7.45Y	124.1	0.00	0.91	3.16	1	23	7	96	0.00	0.0	3.479	0.021	3	1	1	14
PL.29642	PL.29547	C	#4 ACSR	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	3.483	0.004	0	0	0	0
PD.4073	PL.29642	C	20T	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	3.483	0.004	0	0	0	0
PL.29643	PD.4073	C	#4 ACSR	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	3.530	0.047	0	0	0	0
PL.29262	PL.29547	C	#1/0 ACSR	7.45Y	124.1	0.00	0.91	2.69	1	19	6	95	0.00	0.0	3.519	0.040	0	0	0	13
PL.28387	PL.29262	C	#4 ACSR	7.44Y	124.1	0.01	0.92	2.61	2	19	6	95	0.00	0.0	3.592	0.073	0	0	0	11
PL.29263	PL.28387	C	#4 ACSR	7.44Y	124.1	0.02	0.94	2.58	2	18	6	95	0.00	0.0	3.759	0.166	0	0	0	10
PL.29652	PL.29263	C	#4 ACSR	7.44Y	124.1	0.00	0.94	2.53	2	18	5	96	0.00	0.0	3.764	0.005	0	0	0	9
PD.4079	PL.29652	C	20T	7.44Y	124.1	0.00	0.94	2.53	0	18	5	96	0.00	0.0	3.764	0.005	0	0	0	9
PL.29653	PD.4079	C	#4 ACSR	7.44Y	124.1	0.01	0.95	2.53	2	18	5	96	0.00	0.0	3.832	0.068	0	0	1	9
PL.29550	PL.29653	C	#4 ACSR	7.44Y	124.0	0.01	0.96	2.53	2	18	5	96	0.00	0.0	3.931	0.100	0	0	0	8
PL.29264	PL.29550	C	#4 ACSR	7.44Y	124.0	0.00	0.96	0.10	0	1	0	100	0.00	0.0	3.968	0.036	1	0	1	1
PL.29551	PL.29550	C	#1/0 ACSR	7.44Y	124.0	0.00	0.96	0.29	0	2	1	89	0.00	0.0	4.070	0.139	0	0	1	2
PL.29552	PL.29551	C	#1/0 ACSR	7.44Y	124.0	0.00	0.96	0.28	0	2	1	89	0.00	0.0	4.101	0.031	2	1	1	1
PL.29667	PL.29550	C	6 A (CWC)	7.44Y	124.0	0.01	0.96	2.13	2	15	5	95	0.00	0.0	3.987	0.055	0	0	0	5
PD.4088-A	PL.29667	C	Closed	7.44Y	124.0	0.00	0.96	2.13	0	15	5	95	0.00	0.0	3.987	0.055	0	0	0	5
PD.4088-B	PD.4088-A	C	Closed	7.44Y	124.0	0.00	0.96	2.13	0	15	5	95	0.00	0.0	3.987	0.055	0	0	0	5
PL.29668	PD.4088-B	C	6 A (CWC)	7.44Y	124.0	0.01	0.97	2.13	2	15	5	95	0.00	0.0	4.097	0.111	0	0	0	5
PL.29341	PL.29668	C	6 A (CWC)	7.44Y	124.0	0.01	0.98	2.13	2	15	5	95	0.00	0.0	4.209	0.112	0	0	0	5
PL.29342	PL.29341	C	6 A (CWC)	7.44Y	124.0	0.01	1.00	2.13	2	15	5	95	0.00	0.0	4.337	0.128	0	0	0	5
PL.29343	PL.29342	C	6 A (CWC)	7.44Y	124.0	0.01	1.01	2.13	2	15	5	95	0.00	0.0	4.480	0.143	0	0	0	5
PL.29344	PL.29343	C	6 A (CWC)	7.44Y	124.0	0.01	1.03	2.13	2	15	5	95	0.00	0.0	4.627	0.148	0	0	0	5
PL.29345	PL.29344	C	6 A (CWC)	7.44Y	124.0	0.01	1.03	2.13	2	15	5	95	0.00	0.0	4.716	0.089	0	0	0	5
PL.29265	PL.29345	C	6 A (CWC)	7.44Y	124.0	0.01	1.04	1.85	1	13	4	96	0.00	0.0	4.783	0.067	0	0	0	4
PL.29548	PL.29265	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	1.45	1	10	3	96	0.00	0.0	4.867	0.083	7	2	2	3
PL.29549	PL.29548	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	0.44	0	3	1	95	0.00	0.0	4.961	0.094	3	1	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.28390	PL.29265	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	0.40	0	3	1	95	0.00	0.0	4.841	0.057	3	1	1	1
PL.28389	PL.29345	C	#4 ACSR	7.44Y	124.0	0.00	1.03	0.28	0	2	1	89	0.00	0.0	4.873	0.157	2	1	1	1
PL.29648	PL.29263	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	3.764	0.005	0	0	0	1
PD.4076	PL.29648	C	20T	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	3.764	0.005	0	0	0	1
PL.29649	PD.4076	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	3.862	0.098	0	0	0	1
PL.29334	PL.29649	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	3.976	0.114	0	0	0	1
PL.29367	PL.29334	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	4.056	0.081	0	0	0	1
PL.29335	PL.29367	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	4.233	0.176	0	0	0	1
PL.29336	PL.29335	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	4.404	0.171	0	0	0	1
PL.29337	PL.29336	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	4.585	0.181	0	0	0	1
PL.29338	PL.29337	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	4.742	0.156	0	0	0	1
PL.29339	PL.29338	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	4.890	0.148	0	0	0	1
PL.29340	PL.29339	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	5.061	0.171	0	0	0	1
PL.29669	PL.29340	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	5.195	0.134	0	0	0	1
PD.4089-A	PL.29669	C	Closed	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	5.195	0.134	0	0	0	1
PD.4089-B	PD.4089-A	C	Closed	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	5.195	0.134	0	0	0	1
PL.29670	PD.4089-B	C	6 A (CWC)	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	5.364	0.169	0	0	0	1
PL.28388	PL.29670	C	#2 ACSR	7.44Y	124.1	0.00	0.94	0.05	0	0	0	100	0.00	0.0	5.507	0.143	0	0	1	1
PL.29646	PL.28387	C	#4 ACSR	7.44Y	124.1	0.00	0.92	0.03	0	0	0	100	0.00	0.0	3.597	0.005	0	0	0	1
PD.4075	PL.29646	C	20T	7.44Y	124.1	0.00	0.92	0.03	0	0	0	100	0.00	0.0	3.597	0.005	0	0	0	1
PL.29647	PD.4075	C	#4 ACSR	7.44Y	124.1	0.00	0.92	0.03	0	0	0	100	0.00	0.0	3.708	0.111	0	0	1	1
PL.29640	PL.29262	C	6 A (CWC)	7.45Y	124.1	0.00	0.91	0.07	0	1	0	100	0.00	0.0	3.523	0.004	0	0	0	2
PD.4072	PL.29640	C	20T	7.45Y	124.1	0.00	0.91	0.07	0	1	0	100	0.00	0.0	3.523	0.004	0	0	0	2
PL.29641	PD.4072	C	6 A (CWC)	7.45Y	124.1	0.00	0.91	0.07	0	1	0	100	0.00	0.0	3.566	0.043	1	0	2	2
PL.29644	PL.29138	C	6 A (CWC)	7.45Y	124.2	0.00	0.84	0.54	0	4	1	97	0.00	0.0	3.041	0.005	0	0	0	1
PD.4074	PL.29644	C	20T	7.45Y	124.2	0.00	0.84	0.54	0	4	1	97	0.00	0.0	3.041	0.005	0	0	0	1
PL.29645	PD.4074	C	6 A (CWC)	7.45Y	124.2	0.00	0.84	0.54	0	4	1	97	0.00	0.0	3.205	0.164	0	0	0	1
PL.29333	PL.29645	C	6 A (CWC)	7.45Y	124.2	0.00	0.84	0.54	0	4	1	97	0.00	0.0	3.317	0.112	4	1	1	1
PL.29638	PL.29674	C	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.00	0	0	0	100	0.00	0.0	2.909	0.005	0	0	0	0
PD.4070	PL.29638	C	20T	7.45Y	124.2	0.00	0.80	0.00	0	0	0	100	0.00	0.0	2.909	0.005	0	0	0	0
PL.29639	PD.4070	C	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.00	0	0	0	100	0.00	0.0	3.013	0.104	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: Sand Gap

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.28383	PL.29258	C	#1/0 ACSR	7.45Y	124.2	0.00	0.78	1.04	0	7	2	96	0.00	0.0	2.890	0.055	7	2	1	1
PL.28384	PL.29368	C	#2 ACSR	7.45Y	124.2	0.00	0.77	0.00	0	0	0	100	0.00	0.0	2.782	0.031	0	0	1	1
PL.29636	PL.29389	C	#2 ACSR	7.46Y	124.4	0.00	0.61	0.00	0	0	0	100	0.00	0.0	1.938	0.005	0	0	0	0
PD.4069	PL.29636	C	40T	7.46Y	124.4	0.00	0.61	0.00	0	0	0	100	0.00	0.0	1.938	0.005	0	0	0	0
PL.29637	PD.4069	C	#2 ACSR	7.46Y	124.4	0.00	0.61	0.00	0	0	0	100	0.00	0.0	1.983	0.045	0	0	0	0
PL.29020	PL.29254	C	#1/0 ACSR	7.48Y	124.6	0.00	0.41	1.22	1	9	3	95	0.00	0.0	1.043	0.005	0	0	0	1
PD.4065	PL.29020	C	40T	7.48Y	124.6	0.00	0.41	1.22	0	9	3	95	0.00	0.0	1.043	0.005	0	0	0	1
PL.29021	PD.4065	C	#1/0 ACSR	7.48Y	124.6	0.00	0.41	1.22	1	9	3	95	0.00	0.0	1.086	0.043	9	3	1	1
PL.29134	PD.4091	C	#4 ACSR	7.50Y	125.0	0.00	0.02	1.57	1	11	3	96	0.00	0.0	0.076	0.036	11	3	3	3
PL.29382	PL.28492	ABC	397 SPACER	7.50Y	125.0	0.01	0.02	125.87	24	2699	857	95	0.07	0.0	0.053	0.033	0	0	0	604
PL.29130	PL.29382	ABC	397 SPACER	7.50Y	125.0	0.01	0.03	125.87	24	2699	856	95	0.06	0.0	0.080	0.026	0	0	0	604
PL.29131	PL.29130	ABC	397 SPACER	7.50Y	125.0	0.01	0.05	125.87	24	2699	855	95	0.06	0.0	0.110	0.030	0	0	0	604
PL.29132	PL.29131	ABC	397 SPACER	7.50Y	124.9	0.01	0.06	125.87	24	2699	855	95	0.06	0.0	0.137	0.027	0	0	0	604
PL.29133	PL.29132	ABC	397 SPACER	7.50Y	124.9	0.01	0.06	125.87	24	2699	854	95	0.03	0.0	0.153	0.016	0	0	0	604
PL.29532	PL.29133	ABC	397 SPACER	7.49Y	124.9	0.02	0.09	125.87	24	2699	854	95	0.12	0.0	0.212	0.060	8	2	2	604
PL.29533	PL.29532	ABC	397 SPACER	7.49Y	124.9	0.03	0.12	125.49	24	2690	850	95	0.14	0.0	0.278	0.066	0	0	3	602
PL.29511	PL.29533	ABC	336 MCM AC	7.49Y	124.8	0.04	0.16	125.48	24	2690	848	95	0.53	0.0	0.318	0.040	10	3	3	599
PL.29512	PL.29511	ABC	336 MCM AC	7.49Y	124.8	0.04	0.19	125.00	24	2679	844	95	0.48	0.0	0.355	0.037	0	0	0	596
PL.29018	PL.29512	A	#1/0 ACSR	7.49Y	124.8	0.00	0.19	1.92	1	14	4	96	0.00	0.0	0.359	0.004	0	0	0	7
PD.4064	PL.29018	A	65T	7.49Y	124.8	0.00	0.19	1.92	0	14	4	96	0.00	0.0	0.359	0.004	0	0	0	7
PL.29019	PD.4064	A	#1/0 ACSR	7.49Y	124.8	0.00	0.19	1.92	1	14	4	96	0.00	0.0	0.363	0.004	0	0	1	7
PL.29513	PL.29019	A	#1/0 ACSR	7.49Y	124.8	0.00	0.19	1.92	1	14	4	96	0.00	0.0	0.378	0.015	14	4	6	6
PL.29380	PL.29512	ABC	336 MCM AC	7.49Y	124.8	0.03	0.22	124.36	24	2665	838	95	0.36	0.0	0.382	0.028	1	0	2	589
PL.29509	PL.29380	ABC	336 MCM AC	7.48Y	124.7	0.08	0.30	122.28	24	2620	824	95	1.10	0.0	0.470	0.087	0	0	1	573
PL.29510	PL.29509	ABC	336 MCM AC	7.48Y	124.7	0.03	0.33	122.28	24	2619	822	95	0.35	0.0	0.498	0.028	0	0	0	572
PL.29555	PL.29510	ABC	#1/0 ACSR	7.48Y	124.7	0.02	0.34	46.68	20	1003	302	96	0.11	0.0	0.517	0.020	0	0	2	265
PL.29556	PL.29555	ABC	#1/0 ACSR	7.48Y	124.6	0.02	0.37	46.67	20	1003	302	96	0.15	0.0	0.544	0.026	36	11	6	263
PL.29501	PL.29556	ABC	#1/0 ACSR	7.48Y	124.6	0.05	0.42	43.04	19	925	278	96	0.31	0.0	0.607	0.064	8	2	2	252
PL.29675	PL.29501	ABC	#1/0 ACSR	7.47Y	124.6	0.03	0.44	42.68	19	917	276	96	0.16	0.0	0.641	0.034	0	0	0	250
PD.4093	PL.29675	ABC	100L	7.47Y	124.6	0.00	0.44	42.68	43	916	276	96	0.00	0.0	0.641	0.034	0	0	0	250
PL.29676	PD.4093	ABC	#1/0 ACSR	7.47Y	124.5	0.02	0.47	42.68	19	916	276	96	0.15	0.0	0.673	0.032	9	3	2	250

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Balanced Voltage Drop Report
Source: Sand Gap

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.29145	PL.29676	ABC	#1/0 ACSR	7.47Y	124.5	0.05	0.51	40.70	18	874	263	96	0.27	0.0	0.734	0.061	13	4	1	236
PL.29377	PL.29145	ABC	#1/0 ACSR	7.47Y	124.4	0.05	0.56	32.80	14	704	212	96	0.25	0.0	0.821	0.087	8	2	2	194
PL.29004	PL.29377	A	#4 ACSR	7.47Y	124.4	0.00	0.56	2.63	2	19	6	95	0.00	0.0	0.825	0.004	0	0	0	4
PD.4056	PL.29004	A	40T	7.47Y	124.4	0.00	0.56	2.63	0	19	6	95	0.00	0.0	0.825	0.004	0	0	0	4
PL.29005	PD.4056	A	#4 ACSR	7.47Y	124.4	0.00	0.56	2.63	2	19	6	95	0.00	0.0	0.846	0.021	19	6	4	4
PL.29499	PL.29377	ABC	#1/0 ACSR	7.47Y	124.4	0.02	0.58	29.98	13	643	193	96	0.08	0.0	0.855	0.035	5	1	3	180
PL.29500	PL.29499	ABC	#1/0 ACSR	7.46Y	124.4	0.02	0.60	29.76	13	638	192	96	0.08	0.0	0.888	0.033	15	4	2	177
PL.29002	PL.29500	A	#4 ACSR	7.46Y	124.4	0.00	0.60	1.11	1	8	2	97	0.00	0.0	0.892	0.004	0	0	0	4
PD.4055	PL.29002	A	40T	7.46Y	124.4	0.00	0.60	1.11	0	8	2	97	0.00	0.0	0.892	0.004	0	0	0	4
PL.29003	PD.4055	A	#4 ACSR	7.46Y	124.4	0.00	0.60	1.11	1	8	2	97	0.00	0.0	0.901	0.009	5	1	1	4
PL.29498	PL.29003	A	#4 ACSR	7.46Y	124.4	0.00	0.60	0.41	0	3	1	95	0.00	0.0	0.938	0.036	2	0	2	3
PL.29492	PL.29498	A	#4 ACSR	7.46Y	124.4	0.00	0.60	0.18	0	1	0	100	0.00	0.0	0.956	0.018	1	0	1	1
PL.29150	PL.29500	ABC	#1/0 ACSR	7.46Y	124.4	0.04	0.64	28.70	12	616	185	96	0.16	0.0	0.963	0.075	0	0	0	171
PL.28992	PL.29150	C	#1/0 ACSR	7.46Y	124.4	0.00	0.64	0.39	0	3	1	95	0.00	0.0	0.968	0.005	0	0	0	1
PD.4050	PL.28992	C	40T	7.46Y	124.4	0.00	0.64	0.39	0	3	1	95	0.00	0.0	0.968	0.005	0	0	0	1
PL.28993	PD.4050	C	#1/0 ACSR	7.46Y	124.4	0.00	0.64	0.39	0	3	1	95	0.00	0.0	1.015	0.048	3	1	1	1
PL.29273	PL.29150	ABC	#1/0 ACSR	7.46Y	124.3	0.03	0.67	28.57	12	613	184	96	0.13	0.0	1.024	0.061	0	0	0	170
PL.28994	PL.29273	C	#4 ACSR	7.46Y	124.3	0.00	0.67	0.82	1	6	2	95	0.00	0.0	1.029	0.005	0	0	0	1
PD.4051	PL.28994	C	40T	7.46Y	124.3	0.00	0.67	0.82	0	6	2	95	0.00	0.0	1.029	0.005	0	0	0	1
PL.28995	PD.4051	C	#4 ACSR	7.46Y	124.3	0.00	0.67	0.82	1	6	2	95	0.00	0.0	1.058	0.029	6	2	1	1
PL.29375	PL.29273	ABC	#1/0 ACSR	7.46Y	124.3	0.01	0.68	28.30	12	607	182	96	0.05	0.0	1.048	0.024	10	3	1	169
PL.28990	PL.29375	A	#1/0 ACSR	7.46Y	124.3	0.00	0.69	7.88	3	56	17	96	0.00	0.0	1.064	0.016	0	0	0	16
PD.4049	PL.28990	A	40T	7.46Y	124.3	0.00	0.69	7.88	0	56	17	96	0.00	0.0	1.064	0.016	0	0	0	16
PL.28991	PD.4049	A	#1/0 ACSR	7.46Y	124.3	0.00	0.69	7.88	3	56	17	96	0.00	0.0	1.076	0.012	23	7	6	16
PL.29489	PL.28991	A	#1/0 ACSR	7.46Y	124.3	0.01	0.69	4.61	2	33	10	96	0.00	0.0	1.142	0.066	8	2	2	10
PL.29490	PL.29489	A	#1/0 ACSR	7.46Y	124.3	0.00	0.70	3.52	2	25	8	95	0.00	0.0	1.164	0.022	13	4	4	8
PL.29491	PL.29490	A	#1/0 ACSR	7.46Y	124.3	0.00	0.70	1.65	1	12	4	95	0.00	0.0	1.217	0.053	12	4	4	4
PL.29376	PL.29375	ABC	#1/0 ACSR	7.46Y	124.3	0.01	0.70	25.21	11	540	162	96	0.06	0.0	1.081	0.033	0	0	0	152
PL.28996	PL.29376	A	#4 ACSR	7.46Y	124.3	0.00	0.70	1.84	1	13	4	96	0.00	0.0	1.085	0.005	0	0	0	3
PD.4052	PL.28996	A	40T	7.46Y	124.3	0.00	0.70	1.84	0	13	4	96	0.00	0.0	1.085	0.005	0	0	0	3
PL.28997	PD.4052	A	#4 ACSR	7.46Y	124.3	0.00	0.70	1.84	1	13	4	96	0.00	0.0	1.096	0.011	13	4	3	3

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Balanced Voltage Drop Report
Source: Sand Gap

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.29493	PL.29376	ABC	#1/0 ACSR	7.46Y	124.3	0.01	0.71	24.59	11	527	158	96	0.05	0.0	1.112	0.031	14	4	3	149
PL.29494	PL.29493	ABC	#1/0 ACSR	7.45Y	124.2	0.06	0.77	23.93	10	513	154	96	0.21	0.0	1.246	0.134	0	0	0	146
PL.28988	PL.29494	A	#1/0 ACSR	7.45Y	124.2	0.00	0.77	1.05	0	8	2	97	0.00	0.0	1.251	0.005	0	0	0	3
PD.4048	PL.28988	A	40T	7.45Y	124.2	0.00	0.77	1.05	0	8	2	97	0.00	0.0	1.251	0.005	0	0	0	3
PL.28989	PD.4048	A	#1/0 ACSR	7.45Y	124.2	0.00	0.77	1.05	0	8	2	97	0.00	0.0	1.271	0.020	4	1	1	3
PL.29488	PL.28989	A	#1/0 ACSR	7.45Y	124.2	0.00	0.77	0.45	0	3	1	95	0.00	0.0	1.329	0.058	3	1	2	2
PL.29374	PL.29494	ABC	#1/0 ACSR	7.45Y	124.2	0.01	0.78	23.58	10	505	152	96	0.05	0.0	1.281	0.035	11	3	2	143
PL.29632	PL.29374	B	#4 ACSR	7.45Y	124.2	0.00	0.78	0.01	0	0	0	100	0.00	0.0	1.285	0.004	0	0	0	1
PD.4067	PL.29632	B	40T	7.45Y	124.2	0.00	0.78	0.01	0	0	0	100	0.00	0.0	1.285	0.004	0	0	0	1
PL.29633	PD.4067	B	#4 ACSR	7.45Y	124.2	0.00	0.78	0.01	0	0	0	100	0.00	0.0	1.419	0.133	0	0	1	1
PL.29470	PL.29374	ABC	#1/0 ACSR	7.45Y	124.2	0.03	0.82	23.07	10	494	148	96	0.11	0.0	1.360	0.079	22	7	5	140
PL.29471	PL.29470	ABC	#1/0 ACSR	7.45Y	124.2	0.01	0.83	22.04	10	472	142	96	0.04	0.0	1.391	0.031	0	0	0	135
PL.29615	PL.29471	A	#4 ACSR	7.45Y	124.2	0.00	0.83	0.60	0	4	1	97	0.00	0.0	1.396	0.005	0	0	0	1
PD.4032	PL.29615	A	T	7.45Y	124.2	0.00	0.83	0.60	0	4	1	97	0.00	0.0	1.396	0.005	0	0	0	1
PL.29616	PD.4032	A	#4 ACSR	7.45Y	124.2	0.00	0.83	0.60	0	4	1	97	0.00	0.0	1.479	0.083	4	1	1	1
PL.29172	PL.29471	ABC	#1/0 ACSR	7.45Y	124.2	0.02	0.85	21.84	9	468	140	96	0.06	0.0	1.440	0.049	15	5	2	134
PL.29445	PL.29172	ABC	#1/0 ACSR	7.45Y	124.1	0.06	0.91	20.97	9	449	135	96	0.19	0.0	1.609	0.169	19	6	6	130
PL.29446	PL.29445	ABC	#1/0 ACSR	7.44Y	124.1	0.03	0.94	20.07	9	429	129	96	0.08	0.0	1.686	0.076	0	0	0	124
PL.29609	PL.29446	A	#4 ACSR	7.44Y	124.1	0.00	0.94	1.39	1	10	3	96	0.00	0.0	1.690	0.005	0	0	0	3
PD.4028	PL.29609	A	40T	7.44Y	124.1	0.00	0.94	1.39	0	10	3	96	0.00	0.0	1.690	0.005	0	0	0	3
PL.29610	PD.4028	A	#4 ACSR	7.44Y	124.1	0.00	0.94	1.39	1	10	3	96	0.00	0.0	1.715	0.025	10	3	3	3
PL.29443	PL.29446	ABC	#1/0 ACSR	7.44Y	124.0	0.03	0.97	19.61	9	419	126	96	0.09	0.0	1.775	0.089	0	0	1	121
PL.29444	PL.29443	ABC	#1/0 ACSR	7.44Y	124.0	0.05	1.03	19.61	9	419	126	96	0.15	0.0	1.929	0.154	10	3	1	120
PL.29605	PL.29444	A	#4 ACSR	7.44Y	124.0	0.00	1.03	2.13	2	15	5	95	0.00	0.0	1.933	0.004	0	0	0	3
PD.4026	PL.29605	A	T	7.44Y	124.0	0.00	1.03	2.13	0	15	5	95	0.00	0.0	1.933	0.004	0	0	0	3
PL.29606	PD.4026	A	#4 ACSR	7.44Y	124.0	0.00	1.03	2.13	2	15	5	95	0.00	0.0	1.980	0.047	6	2	2	3
PL.29442	PL.29606	A	#4 ACSR	7.44Y	124.0	0.00	1.03	1.24	1	9	3	95	0.00	0.0	2.048	0.068	9	3	1	1
PL.29274	PL.29444	ABC	#1/0 ACSR	7.44Y	124.0	0.01	1.04	18.41	8	394	118	96	0.03	0.0	1.964	0.035	0	0	0	116
PL.29603	PL.29274	C	#4 ACSR	7.44Y	124.0	0.00	1.04	3.27	3	23	7	96	0.00	0.0	1.968	0.004	0	0	0	4
PD.4025	PL.29603	C	T	7.44Y	124.0	0.00	1.04	3.27	0	23	7	96	0.00	0.0	1.968	0.004	0	0	0	4
PL.29604	PD.4025	C	#4 ACSR	7.44Y	124.0	0.00	1.04	3.27	3	23	7	96	0.00	0.0	1.987	0.019	23	7	4	4

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Balanced Voltage Drop Report
Source: Sand Gap

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.29275	PL.29274	ABC	#1/0 ACSR	7.44Y	123.9	0.02	1.06	17.32	8	370	111	96	0.06	0.0	2.033	0.069	0	0	0	112
PL.29440	PL.29275	ABC	#1/0 ACSR	7.44Y	123.9	0.01	1.07	16.47	7	352	105	96	0.03	0.0	2.071	0.038	2	0	1	110
PL.29441	PL.29440	ABC	#1/0 ACSR	7.43Y	123.9	0.02	1.09	16.40	7	350	105	96	0.05	0.0	2.143	0.071	0	0	0	109
PL.29173	PL.29441	C	#4 ACSR	7.43Y	123.9	0.00	1.09	3.21	2	23	7	96	0.00	0.0	2.155	0.013	0	0	0	5
PD.4024	PL.29173	C	30T	7.43Y	123.9	0.00	1.09	3.21	0	23	7	96	0.00	0.0	2.155	0.013	0	0	0	5
PL.29277	PD.4024	C	#4 ACSR	7.43Y	123.9	0.00	1.10	3.21	2	23	7	96	0.00	0.0	2.184	0.029	14	4	4	5
PL.29174	PL.29277	C	6 A (CWC)	7.43Y	123.9	0.00	1.10	1.30	1	9	3	95	0.00	0.0	2.249	0.064	9	3	1	1
PL.29276	PL.29441	ABC	#1/0 ACSR	7.43Y	123.9	0.04	1.13	15.33	7	327	98	96	0.08	0.0	2.278	0.135	0	0	0	104
PL.29278	PL.29276	ABC	#1/0 ACSR	7.43Y	123.8	0.03	1.16	15.33	7	327	98	96	0.07	0.0	2.389	0.111	0	0	0	104
PL.29591	PL.29278	ABC	#1/0 ACSR	7.43Y	123.8	0.03	1.19	15.33	7	327	98	96	0.06	0.0	2.478	0.090	0	0	0	104
PL.29592	PL.29591	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.19	15.33	7	327	98	96	0.00	0.0	2.482	0.004	11	3	2	104
PL.29593	PL.29592	A	6 A (CWC)	7.43Y	123.8	0.00	1.19	3.10	2	22	7	95	0.00	0.0	2.486	0.004	0	0	0	5
PD.4017	PL.29593	A	T	7.43Y	123.8	0.00	1.19	3.10	0	22	7	95	0.00	0.0	2.486	0.004	0	0	0	5
PL.29594	PD.4017	A	6 A (CWC)	7.43Y	123.8	0.00	1.19	3.10	2	22	7	95	0.00	0.0	2.509	0.023	8	2	2	5
PL.29412	PL.29594	A	6 A (CWC)	7.43Y	123.8	0.00	1.19	1.97	1	14	4	96	0.00	0.0	2.558	0.048	14	4	3	3
PL.29279	PL.29592	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.20	13.78	6	294	88	96	0.02	0.0	2.525	0.043	0	0	0	97
PL.29408	PL.29279	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.21	13.78	6	294	88	96	0.03	0.0	2.576	0.051	0	0	2	97
PL.29409	PL.29408	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.22	13.78	6	294	88	96	0.02	0.0	2.620	0.044	1	0	1	95
PL.29410	PL.29409	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.23	13.76	6	294	88	96	0.02	0.0	2.670	0.050	10	3	2	94
PL.29411	PL.29410	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.25	13.30	6	284	85	96	0.02	0.0	2.718	0.048	0	0	2	92
PL.29280	PL.29411	ABC	#1/0 ACSR	7.42Y	123.7	0.02	1.27	12.08	5	258	77	96	0.04	0.0	2.814	0.096	0	0	0	84
PL.33060	PL.29280	ABC	#1/0 ACSR	7.42Y	123.7	0.01	1.28	9.61	4	205	61	96	0.02	0.0	2.894	0.080	0	0	2	60
PL.33061	PL.33060	ABC	#1/0 ACSR	7.42Y	123.7	0.02	1.30	9.59	4	205	61	96	0.02	0.0	2.984	0.090	16	5	4	58
PL.29405	PL.33061	ABC	#1/0 ACSR	7.42Y	123.7	0.02	1.32	8.83	4	188	56	96	0.03	0.0	3.106	0.122	0	0	0	54
PL.29281	PL.29405	ABC	#1/0 ACSR	7.42Y	123.7	0.01	1.33	8.56	4	183	55	96	0.02	0.0	3.189	0.083	0	0	0	53
PL.29282	PL.29281	ABC	#1/0 ACSR	7.42Y	123.7	0.01	1.34	7.89	3	168	50	96	0.01	0.0	3.252	0.063	0	0	0	51
PL.29183	PL.29282	ABC	#1/0 ACSR	7.42Y	123.7	0.01	1.35	6.48	3	138	41	96	0.01	0.0	3.349	0.097	0	0	0	42
PL.29188	PL.29183	A	#2 ACSR	7.42Y	123.7	0.00	1.35	0.08	0	1	0	100	0.00	0.0	3.353	0.004	0	0	0	1
PD.4013	PL.29188	A	40T	7.42Y	123.7	0.00	1.35	0.08	0	1	0	100	0.00	0.0	3.353	0.004	0	0	0	1
PL.29284	PD.4013	A	#2 ACSR	7.42Y	123.7	0.00	1.35	0.00	0	0	0	100	0.00	0.0	3.388	0.035	0	0	0	0
PL.29187	PD.4013	A	#1/0 ACSR	7.42Y	123.7	0.00	1.35	0.08	0	1	0	100	0.00	0.0	3.374	0.021	1	0	1	1

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Balanced Voltage Drop Report
Source: Sand Gap

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.29283	PL.29183	ABC	#1/0 ACSR	7.42Y	123.6	0.00	1.35	6.46	3	138	41	96	0.00	0.0	3.381	0.032	13	4	4	41
PL.29286	PL.29283	ABC	#1/0 ACSR	7.42Y	123.6	0.01	1.36	5.85	3	125	37	96	0.01	0.0	3.441	0.060	4	1	2	37
PL.29190	PL.29286	ABC	#1/0 ACSR	7.42Y	123.6	0.01	1.37	5.65	2	121	36	96	0.01	0.0	3.518	0.077	0	0	0	35
PL.29577	PL.29190	A	#4 ACSR	7.42Y	123.6	0.01	1.37	6.62	5	47	14	96	0.00	0.0	3.542	0.024	0	0	0	12
PD.4009	PL.29577	A	40T	7.42Y	123.6	0.00	1.37	6.62	0	47	14	96	0.00	0.0	3.542	0.024	0	0	0	12
PL.29578	PD.4009	A	#4 ACSR	7.42Y	123.6	0.00	1.38	6.62	5	47	14	96	0.00	0.0	3.554	0.013	2	1	1	12
PL.29403	PL.29578	A	#4 ACSR	7.42Y	123.6	0.03	1.41	6.36	5	45	14	95	0.01	0.0	3.655	0.101	0	0	0	11
PL.29348	PL.29403	A	#4 ACSR	7.41Y	123.6	0.02	1.43	6.36	5	45	14	95	0.01	0.0	3.752	0.097	28	8	5	11
PL.29192	PL.29348	A	#4 ACSR	7.41Y	123.6	0.01	1.43	1.44	1	10	3	96	0.00	0.0	3.864	0.112	0	0	0	4
PL.29349	PL.29192	A	#4 ACSR	7.41Y	123.6	0.01	1.44	1.44	1	10	3	96	0.00	0.0	3.988	0.125	0	0	0	4
PL.29288	PL.29349	A	#4 ACSR	7.41Y	123.6	0.00	1.44	0.47	0	3	1	95	0.00	0.0	4.079	0.090	0	0	0	2
PL.29350	PL.29288	A	#4 ACSR	7.41Y	123.6	0.00	1.45	0.47	0	3	1	95	0.00	0.0	4.166	0.087	0	0	0	2
PL.29351	PL.29350	A	#4 ACSR	7.41Y	123.6	0.00	1.45	0.47	0	3	1	95	0.00	0.0	4.238	0.072	3	1	2	2
PL.29193	PL.29349	A	#4 ACSR	7.41Y	123.6	0.00	1.44	0.97	1	7	2	96	0.00	0.0	4.037	0.049	7	2	2	2
PL.29287	PL.29348	A	#4 ACSR	7.41Y	123.6	0.00	1.43	1.01	1	7	2	96	0.00	0.0	3.835	0.084	7	2	2	2
PL.29191	PL.29190	C	6 A (CWC)	7.42Y	123.6	0.01	1.38	10.33	7	73	22	96	0.00	0.0	3.535	0.017	0	0	0	23
PL.29371	PL.29191	C	6 A (CWC)	7.42Y	123.6	0.00	1.38	10.33	7	73	22	96	0.00	0.0	3.540	0.005	0	0	0	23
PD.4077	PL.29371	C	40T	7.42Y	123.6	0.00	1.38	10.33	0	73	22	96	0.00	0.0	3.540	0.005	0	0	0	23
PL.29401	PD.4077	C	6 A (CWC)	7.41Y	123.6	0.06	1.43	7.73	6	55	16	96	0.02	0.0	3.712	0.172	8	3	2	20
PL.29402	PL.29401	C	6 A (CWC)	7.41Y	123.5	0.02	1.45	6.54	5	46	14	96	0.01	0.0	3.772	0.060	5	2	1	18
PL.29400	PL.29402	C	6 A (CWC)	7.41Y	123.5	0.01	1.46	5.80	4	41	12	96	0.00	0.0	3.793	0.021	0	0	0	17
PL.29394	PL.29400	C	6 A (CWC)	7.41Y	123.5	0.05	1.51	5.13	4	36	11	96	0.01	0.0	3.998	0.205	0	0	1	16
PL.29395	PL.29394	C	6 A (CWC)	7.41Y	123.5	0.01	1.52	5.12	4	36	11	96	0.00	0.0	4.044	0.046	5	1	1	15
PL.29391	PL.29395	C	6 A (CWC)	7.41Y	123.5	0.01	1.53	4.45	3	32	9	96	0.00	0.0	4.104	0.060	5	1	2	14
PL.29197	PL.29391	C	#4 ACSR	7.41Y	123.5	0.00	1.53	0.33	0	2	1	89	0.00	0.0	4.180	0.076	2	1	2	2
PL.29575	PL.29391	C	#4 ACSR	7.41Y	123.5	0.00	1.53	2.01	2	14	4	96	0.00	0.0	4.109	0.005	0	0	0	4
PD.4008	PL.29575	C	20T	7.41Y	123.5	0.00	1.53	2.01	0	14	4	96	0.00	0.0	4.109	0.005	0	0	0	4
PL.29576	PD.4008	C	#4 ACSR	7.41Y	123.5	0.01	1.54	2.01	2	14	4	96	0.00	0.0	4.215	0.107	0	0	0	4
PL.29398	PL.29576	C	#4 ACSR	7.41Y	123.5	0.01	1.55	2.01	2	14	4	96	0.00	0.0	4.343	0.128	6	2	2	4
PL.29399	PL.29398	C	#4 ACSR	7.41Y	123.5	0.00	1.55	1.09	1	8	2	97	0.00	0.0	4.365	0.021	0	0	0	2
PL.29366	PL.29399	C	#4 ACSR	7.41Y	123.4	0.00	1.55	1.09	1	8	2	97	0.00	0.0	4.427	0.063	0	0	0	2

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Balanced Voltage Drop Report
Source: Sand Gap

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.29396	PL.29366	C	#4 ACSR	7.41Y	123.4	0.00	1.55	1.09	1	8	2	97	0.00	0.0	4.583	0.156	6	2	1	2
PL.29397	PL.29396	C	#4 ACSR	7.41Y	123.4	0.00	1.56	0.25	0	2	1	89	0.00	0.0	4.721	0.138	2	1	1	1
PL.29392	PL.29391	C	6 A (CWC)	7.41Y	123.5	0.00	1.53	1.43	1	10	3	96	0.00	0.0	4.159	0.055	4	1	4	6
PL.29393	PL.29392	C	6 A (CWC)	7.41Y	123.5	0.00	1.53	0.92	1	7	2	96	0.00	0.0	4.255	0.096	0	0	0	2
PL.29352	PL.29393	C	6 A (CWC)	7.41Y	123.5	0.00	1.54	0.92	1	7	2	96	0.00	0.0	4.352	0.097	0	0	0	2
PL.29370	PL.29352	C	6 A (CWC)	7.41Y	123.5	0.01	1.54	0.92	1	7	2	96	0.00	0.0	4.477	0.125	0	0	0	2
PL.29353	PL.29370	C	6 A (CWC)	7.41Y	123.4	0.01	1.55	0.92	1	7	2	96	0.00	0.0	4.643	0.167	0	0	1	2
PL.29198	PL.29353	C	#4 ACSR	7.41Y	123.4	0.00	1.55	0.92	1	7	2	96	0.00	0.0	4.673	0.030	7	2	1	1
PL.29196	PL.29400	C	#1/0 ACSR	7.41Y	123.5	0.00	1.46	0.66	0	5	1	98	0.00	0.0	3.896	0.103	5	1	1	1
PL.29194	PD.4077	C	#4 ACSR	7.42Y	123.6	0.00	1.38	2.61	2	19	6	95	0.00	0.0	3.578	0.039	9	3	1	3
PL.29195	PL.29194	C	#1/0 ACSR	7.42Y	123.6	0.00	1.38	1.40	1	10	3	96	0.00	0.0	3.599	0.020	10	3	2	2
PL.29184	PL.29282	C	#2 ACSR	7.42Y	123.7	0.00	1.34	4.22	2	30	9	96	0.00	0.0	3.277	0.025	0	0	0	9
PL.29579	PL.29184	C	6 A (CWC)	7.42Y	123.7	0.00	1.34	4.22	3	30	9	96	0.00	0.0	3.282	0.005	0	0	0	9
PD.4010	PL.29579	C	20T	7.42Y	123.7	0.00	1.34	4.22	0	30	9	96	0.00	0.0	3.282	0.005	0	0	0	9
PL.29580	PD.4010	C	6 A (CWC)	7.42Y	123.7	0.00	1.34	4.22	3	30	9	96	0.00	0.0	3.292	0.011	18	6	7	9
PL.29185	PL.29580	C	6 A (CWC)	7.42Y	123.6	0.02	1.36	1.62	1	12	3	97	0.00	0.0	3.501	0.208	0	0	0	2
PL.29186	PL.29185	C	#1/0 ACSR	7.42Y	123.6	0.00	1.36	0.76	0	5	2	93	0.00	0.0	3.576	0.075	5	2	1	1
PL.29285	PL.29185	C	6 A (CWC)	7.42Y	123.6	0.00	1.36	0.86	1	6	2	95	0.00	0.0	3.550	0.050	6	2	1	1
PL.29581	PL.29281	C	#4 ACSR	7.42Y	123.7	0.00	1.33	2.02	2	14	4	96	0.00	0.0	3.194	0.005	0	0	0	2
PD.4011	PL.29581	C	40T	7.42Y	123.7	0.00	1.33	2.02	0	14	4	96	0.00	0.0	3.194	0.005	0	0	0	2
PL.29582	PD.4011	C	#4 ACSR	7.42Y	123.7	0.00	1.33	2.02	2	14	4	96	0.00	0.0	3.217	0.024	14	4	2	2
PL.29583	PL.29405	C	#4 ACSR	7.42Y	123.7	0.00	1.32	0.78	1	6	2	95	0.00	0.0	3.111	0.005	0	0	0	1
PD.4012	PL.29583	C	40T	7.42Y	123.7	0.00	1.32	0.78	0	6	2	95	0.00	0.0	3.111	0.005	0	0	0	1
PL.29584	PD.4012	C	#4 ACSR	7.42Y	123.7	0.00	1.32	0.78	1	6	2	95	0.00	0.0	3.127	0.016	6	2	1	1
PL.29585	PL.29280	B	#2 ACSR	7.42Y	123.7	0.00	1.27	7.41	4	53	16	96	0.00	0.0	2.819	0.005	0	0	0	24
PD.4014	PL.29585	B	40T	7.42Y	123.7	0.00	1.27	7.41	0	53	16	96	0.00	0.0	2.819	0.005	0	0	0	24
PL.29586	PD.4014	B	#2 ACSR	7.42Y	123.7	0.01	1.27	7.41	4	53	16	96	0.00	0.0	2.850	0.031	17	5	10	24
PL.29289	PL.29586	B	#2 ACSR	7.42Y	123.7	0.00	1.28	4.44	3	32	9	96	0.00	0.0	2.882	0.032	1	0	1	12
PL.29179	PL.29289	B	#2 ACSR	7.42Y	123.7	0.00	1.28	1.63	1	12	3	97	0.00	0.0	2.944	0.062	12	3	3	3
PL.29180	PL.29289	B	#4 ACSR	7.42Y	123.7	0.01	1.29	2.50	2	18	5	96	0.00	0.0	2.989	0.107	11	3	2	3
PL.29182	PL.29180	B	#1/0 ACSR	7.42Y	123.7	0.00	1.29	0.92	0	7	2	96	0.00	0.0	3.002	0.013	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: Sand Gap

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.29553	PL.29182	B	#1/0 ACSR	7.42Y	123.7	0.00	1.29	0.92	0	7	2	96	0.00	0.0	3.068	0.066	0	0	0	1
PL.29554	PL.29553	B	#1/0 ACSR	7.42Y	123.7	0.00	1.29	0.92	0	7	2	96	0.00	0.0	3.168	0.100	0	0	0	1
PL.29347	PL.29554	B	#1/0 ACSR	7.42Y	123.7	0.00	1.29	0.92	0	7	2	96	0.00	0.0	3.270	0.103	7	2	1	1
PL.29406	PL.29289	B	#4 ACSR	7.42Y	123.7	0.00	1.28	0.21	0	2	0	100	0.00	0.0	2.927	0.045	0	0	4	5
PL.29407	PL.29406	B	#4 ACSR	7.42Y	123.7	0.00	1.28	0.21	0	2	0	100	0.00	0.0	2.958	0.030	2	0	1	1
PL.29177	PL.29407	B	#4 ACSR	7.42Y	123.7	0.00	1.28	0.00	0	0	0	100	0.00	0.0	3.006	0.048	0	0	0	0
PL.29178	PL.29586	B	6 A (CWC)	7.42Y	123.7	0.00	1.28	0.61	0	4	1	97	0.00	0.0	2.935	0.086	1	0	1	2
PL.29252	PL.29178	B	6 A (CWC)	7.42Y	123.7	0.00	1.28	0.40	0	3	1	95	0.00	0.0	3.033	0.098	0	0	0	1
PL.29181	PL.29252	B	#2 ACSR	7.42Y	123.7	0.00	1.28	0.40	0	3	1	95	0.00	0.0	3.090	0.057	3	1	1	1
PL.29587	PL.29411	C	6 A (CWC)	7.43Y	123.8	0.00	1.25	3.67	3	26	8	96	0.00	0.0	2.722	0.004	0	0	0	6
PD.4015	PL.29587	C	40T	7.43Y	123.8	0.00	1.25	3.67	0	26	8	96	0.00	0.0	2.722	0.004	0	0	0	6
PL.29588	PD.4015	C	6 A (CWC)	7.42Y	123.7	0.01	1.26	3.67	3	26	8	96	0.00	0.0	2.796	0.074	4	1	1	6
PL.29175	PL.29588	C	6 A (CWC)	7.42Y	123.7	0.00	1.26	3.08	2	22	7	95	0.00	0.0	2.837	0.041	15	5	3	5
PL.29176	PL.29175	C	#4 ACSR	7.42Y	123.7	0.00	1.26	0.96	1	7	2	96	0.00	0.0	2.904	0.067	7	2	2	2
PL.29589	PL.29279	A	#1/0 ACSR	7.43Y	123.8	0.00	1.20	0.00	0	0	0	100	0.00	0.0	2.529	0.004	0	0	0	0
PD.4016	PL.29589	A	40T	7.43Y	123.8	0.00	1.20	0.00	0	0	0	100	0.00	0.0	2.529	0.004	0	0	0	0
PL.29590	PD.4016	A	#1/0 ACSR	7.43Y	123.8	0.00	1.20	0.00	0	0	0	100	0.00	0.0	2.552	0.023	0	0	0	0
PL.29607	PL.29275	C	#4 ACSR	7.44Y	123.9	0.00	1.06	2.56	2	18	5	96	0.00	0.0	2.038	0.005	0	0	0	2
PD.4027	PL.29607	C	40T	7.44Y	123.9	0.00	1.06	2.56	0	18	5	96	0.00	0.0	2.038	0.005	0	0	0	2
PL.29608	PD.4027	C	#4 ACSR	7.44Y	123.9	0.00	1.06	2.56	2	18	5	96	0.00	0.0	2.075	0.037	18	5	2	2
PL.29617	PL.29172	C	6 A (CWC)	7.45Y	124.2	0.00	0.85	0.48	0	3	1	95	0.00	0.0	1.445	0.004	0	0	0	2
PD.4033	PL.29617	C	T	7.45Y	124.2	0.00	0.85	0.48	0	3	1	95	0.00	0.0	1.445	0.004	0	0	0	2
PL.29618	PD.4033	C	6 A (CWC)	7.45Y	124.2	0.00	0.85	0.48	0	3	1	95	0.00	0.0	1.476	0.031	3	1	2	2
PL.29658	PL.29377	C	6 A (CWC)	7.47Y	124.4	0.00	0.56	4.67	3	33	10	96	0.00	0.0	0.825	0.004	0	0	0	8
PD.4082	PL.29658	C	40T	7.47Y	124.4	0.00	0.56	4.67	0	33	10	96	0.00	0.0	0.825	0.004	0	0	0	8
PL.29659	PD.4082	C	6 A (CWC)	7.47Y	124.4	0.00	0.56	4.67	3	33	10	96	0.00	0.0	0.829	0.004	0	0	0	8
PL.29378	PL.29659	C	#4 ACSR	7.47Y	124.4	0.01	0.57	3.59	3	26	8	96	0.00	0.0	0.894	0.065	11	3	2	7
PL.29149	PL.29378	C	#4 ACSR	7.47Y	124.4	0.00	0.57	0.61	0	4	1	97	0.00	0.0	0.928	0.035	4	1	2	2
PL.29379	PL.29378	C	#4 ACSR	7.47Y	124.4	0.00	0.57	1.44	1	10	3	96	0.00	0.0	0.909	0.016	10	3	3	3
PL.29272	PL.29659	C	6 A (CWC)	7.47Y	124.4	0.00	0.57	1.08	1	8	2	97	0.00	0.0	0.872	0.043	8	2	1	1
PL.29006	PL.29145	A	6 A (CWC)	7.47Y	124.5	0.00	0.51	4.51	3	32	10	95	0.00	0.0	0.738	0.004	0	0	0	9

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Balanced Voltage Drop Report
Source: Sand Gap

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.4057	PL.29006	A	40T	7.47Y	124.5	0.00	0.51	4.51	0	32	10	95	0.00	0.0	0.738	0.004	0	0	0	9
PL.29007	PD.4057	A	6 A (CWC)	7.47Y	124.5	0.02	0.53	4.51	3	32	10	95	0.00	0.0	0.832	0.094	7	2	3	9
PL.29502	PL.29007	A	6 A (CWC)	7.47Y	124.4	0.02	0.55	3.57	3	26	8	96	0.00	0.0	0.970	0.138	0	0	0	6
PL.29148	PL.29502	A	#4 ACSR	7.47Y	124.4	0.00	0.55	1.47	1	11	3	96	0.00	0.0	1.047	0.077	11	3	3	3
PL.29530	PL.29502	A	6 A (CWC)	7.47Y	124.4	0.01	0.56	2.10	2	15	4	97	0.00	0.0	1.059	0.089	2	1	1	3
PL.29531	PL.29530	A	6 A (CWC)	7.47Y	124.4	0.00	0.56	1.79	1	13	4	96	0.00	0.0	1.089	0.030	0	0	0	2
PL.29267	PL.29531	A	6 A (CWC)	7.47Y	124.4	0.00	0.56	0.00	0	0	0	100	0.00	0.0	1.224	0.135	0	0	0	0
PL.29147	PL.29531	A	#4 ACSR	7.47Y	124.4	0.00	0.56	1.79	1	13	4	96	0.00	0.0	1.119	0.030	13	4	2	2
PL.29008	PL.29145	A	#4 ACSR	7.46Y	124.4	0.12	0.63	17.33	13	124	37	96	0.11	0.1	0.891	0.157	0	0	0	32
PD.4058	PL.29008	A	40T	7.46Y	124.4	0.00	0.63	17.33	0	124	37	96	0.00	0.0	0.891	0.157	0	0	0	32
PL.29009	PD.4058	A	#4 ACSR	7.46Y	124.3	0.06	0.69	17.33	13	124	37	96	0.06	0.0	0.968	0.077	0	0	0	32
PL.29154	PL.29009	A	6 A (CWC)	7.46Y	124.3	0.03	0.72	17.33	12	124	37	96	0.03	0.0	1.003	0.035	0	0	0	32
PL.29156	PL.29154	A	6 A (CWC)	7.46Y	124.3	0.00	0.72	1.88	1	13	4	96	0.00	0.0	1.098	0.095	13	4	4	4
PL.29155	PL.29154	A	6 A (CWC)	7.46Y	124.3	0.00	0.72	0.28	0	2	1	89	0.00	0.0	1.016	0.013	2	1	1	1
PL.29268	PL.29154	A	6 A (CWC)	7.45Y	124.2	0.08	0.80	15.16	11	108	32	96	0.06	0.1	1.126	0.123	10	3	2	27
PL.29527	PL.29268	A	#1/0 ACSR	7.45Y	124.2	0.00	0.80	1.62	1	12	3	97	0.00	0.0	1.163	0.037	0	0	1	3
PL.29528	PL.29527	A	#1/0 ACSR	7.45Y	124.2	0.00	0.80	1.62	1	12	3	97	0.00	0.0	1.191	0.028	0	0	1	2
PL.29529	PL.29528	A	#1/0 ACSR	7.45Y	124.2	0.00	0.81	1.58	1	11	3	96	0.00	0.0	1.237	0.046	11	3	1	1
PL.33040	PL.29268	A	6 A (CWC)	7.45Y	124.2	0.00	0.80	0.00	0	0	0	100	0.00	0.0	1.127	0.002	0	0	0	0
PL.29157	PL.29268	A	6 A (CWC)	7.45Y	124.2	0.01	0.81	12.12	9	87	26	96	0.01	0.0	1.148	0.022	0	0	0	22
PL.29158	PL.29157	A	6 A (CWC)	7.45Y	124.2	0.00	0.82	3.82	3	27	8	96	0.00	0.0	1.182	0.035	27	8	4	4
PL.29270	PL.29157	A	6 A (CWC)	7.45Y	124.2	0.03	0.84	8.30	6	59	18	96	0.01	0.0	1.224	0.076	6	2	1	18
PL.29159	PL.29270	A	#4 ACSR	7.45Y	124.2	0.00	0.84	1.02	1	7	2	96	0.00	0.0	1.282	0.059	7	2	2	2
PL.29271	PL.29270	A	6 A (CWC)	7.45Y	124.1	0.03	0.87	6.39	5	46	14	96	0.01	0.0	1.314	0.091	2	1	1	15
PL.29160	PL.29271	A	6 A (CWC)	7.45Y	124.1	0.00	0.87	5.05	4	36	11	96	0.00	0.0	1.318	0.004	0	0	0	12
PD.4030	PL.29160	A	T	7.45Y	124.1	0.00	0.87	5.05	0	36	11	96	0.00	0.0	1.318	0.004	0	0	0	12
PL.29161	PD.4030	A	#4 ACSR	7.45Y	124.1	0.00	0.87	1.93	1	14	4	96	0.00	0.0	1.373	0.055	14	4	2	2
PL.29269	PD.4030	A	6 A (CWC)	7.45Y	124.1	0.01	0.88	3.12	2	22	7	95	0.00	0.0	1.418	0.100	5	2	2	10
PL.29162	PL.29269	A	6 A (CWC)	7.45Y	124.1	0.00	0.88	0.73	1	5	2	93	0.00	0.0	1.464	0.046	5	2	1	1
PL.29163	PL.29269	A	6 A (CWC)	7.45Y	124.1	0.01	0.89	1.64	1	12	3	97	0.00	0.0	1.540	0.122	0	0	0	7
PL.29346	PL.29163	A	6 A (CWC)	7.45Y	124.1	0.01	0.90	1.64	1	12	3	97	0.00	0.0	1.619	0.079	2	1	1	6

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Balanced Voltage Drop Report
Source: Sand Gap

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.29165	PL.29346	A	6 A (CWC)	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	1.691	0.072	0	0	0	0
PL.29166	PL.29165	A	#4 ACSR	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	1.756	0.065	0	0	0	0
PL.29164	PL.29346	A	6 A (CWC)	7.45Y	124.1	0.00	0.90	1.30	1	9	3	95	0.00	0.0	1.684	0.065	3	1	2	5
PL.29167	PL.29164	A	#4 ACSR	7.45Y	124.1	0.00	0.90	0.64	0	5	1	98	0.00	0.0	1.749	0.064	5	1	1	1
PL.29611	PL.29164	A	#1/0 ACSR	7.45Y	124.1	0.00	0.90	0.28	0	2	1	89	0.00	0.0	1.701	0.017	0	0	0	2
PD.4029	PL.29611	A	T	7.45Y	124.1	0.00	0.90	0.28	0	2	1	89	0.00	0.0	1.701	0.017	0	0	0	2
PL.29612	PD.4029	A	#1/0 ACSR	7.45Y	124.1	0.00	0.90	0.28	0	2	1	89	0.00	0.0	1.871	0.169	0	0	0	2
PL.29169	PL.29612	A	#4 ACSR	7.45Y	124.1	0.00	0.90	0.28	0	2	1	89	0.00	0.0	1.960	0.089	0	0	0	2
PL.29168	PL.29169	A	#4 ACSR	7.45Y	124.1	0.00	0.90	0.28	0	2	1	89	0.00	0.0	2.059	0.099	2	1	1	2
PL.29171	PL.29168	A	#4 ACSR	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	2.140	0.081	0	0	0	0
PL.29372	PL.29168	A	6 A (CWC)	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	2.138	0.079	0	0	0	1
PL.29373	PL.29372	A	6 A (CWC)	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	2.218	0.081	0	0	1	1
PL.29170	PL.29372	A	6 A (CWC)	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	2.191	0.053	0	0	0	0
PL.33062	PL.29163	A	#1/0 ACSR	7.45Y	124.1	0.00	0.89	0.00	0	0	0	100	0.00	0.0	1.558	0.018	0	0	1	1
PL.29447	PL.29271	A	#4 ACSR	7.45Y	124.1	0.00	0.87	1.10	1	8	2	97	0.00	0.0	1.350	0.036	2	0	1	2
PL.29448	PL.29447	A	#4 ACSR	7.45Y	124.1	0.00	0.87	0.88	1	6	2	95	0.00	0.0	1.389	0.039	6	2	1	1
PL.29144	PL.29676	ABC	#1/0 ACSR	7.47Y	124.5	0.00	0.47	1.55	1	33	10	96	0.00	0.0	0.704	0.031	8	2	5	12
PL.29146	PL.29144	B	#4 ACSR	7.47Y	124.5	0.00	0.47	3.50	3	25	7	96	0.00	0.0	0.752	0.048	25	7	7	7
PL.29514	PL.29556	A	#1/0 ACSR	7.48Y	124.6	0.01	0.37	5.90	3	42	13	96	0.00	0.0	0.583	0.039	1	0	1	5
PL.29515	PL.29514	A	#1/0 ACSR	7.48Y	124.6	0.00	0.37	5.82	3	42	12	96	0.00	0.0	0.599	0.016	42	12	4	4
PL.29266	PL.29510	ABC	336 MCM AC	7.48Y	124.7	0.02	0.34	75.60	15	1615	519	95	0.15	0.0	0.529	0.032	0	0	0	307
PL.29143	PL.29266	ABC	336 MCM AC	7.48Y	124.6	0.02	0.36	75.60	15	1615	518	95	0.13	0.0	0.556	0.027	0	0	0	307
PL.29016	PL.29143	A	#1/0 ACSR	7.48Y	124.6	0.00	0.36	4.80	2	34	10	96	0.00	0.0	0.561	0.004	0	0	0	7
PD.4062	PL.29016	A	65T	7.48Y	124.6	0.00	0.36	4.80	0	34	10	96	0.00	0.0	0.561	0.004	0	0	0	7
PL.29017	PD.4062	A	#1/0 ACSR	7.48Y	124.6	0.00	0.36	4.80	2	34	10	96	0.00	0.0	0.581	0.020	34	10	7	7
PL.29290	PL.29143	ABC	336 MCM AC	7.48Y	124.6	0.01	0.37	74.00	14	1581	508	95	0.07	0.0	0.571	0.015	0	0	0	300
PL.29151	PL.29290	ABC	397 SPACER	7.48Y	124.6	0.00	0.37	3.62	1	78	23	96	0.00	0.0	0.595	0.024	1	0	1	23
PL.29012	PL.29151	C	#1/0 ACSR	7.48Y	124.6	0.00	0.37	10.76	5	77	23	96	0.00	0.0	0.600	0.005	0	0	0	22
PD.4060	PL.29012	C	65T	7.48Y	124.6	0.00	0.37	10.76	0	77	23	96	0.00	0.0	0.600	0.005	0	0	0	22
PL.29013	PD.4060	C	#1/0 ACSR	7.48Y	124.6	0.00	0.37	10.76	5	77	23	96	0.00	0.0	0.604	0.005	15	4	2	22
PL.29505	PL.29013	C	#1/0 ACSR	7.48Y	124.6	0.00	0.37	5.88	3	42	13	96	0.00	0.0	0.627	0.023	17	5	6	16

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Balanced Voltage Drop Report
Source: Sand Gap

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.29506	PL.29505	C	#1/0 ACSR	7.48Y	124.6	0.00	0.38	3.51	2	25	8	95	0.00	0.0	0.665	0.038	25	8	10	10
PL.29503	PL.29013	C	#1/0 ACSR	7.48Y	124.6	0.00	0.37	2.83	1	20	6	96	0.00	0.0	0.646	0.042	4	1	1	4
PL.29504	PL.29503	C	#1/0 ACSR	7.48Y	124.6	0.00	0.38	2.34	1	17	5	96	0.00	0.0	0.718	0.073	10	3	2	3
PL.29152	PL.29504	C	#4 ACSR	7.48Y	124.6	0.00	0.38	0.89	1	6	2	95	0.00	0.0	0.758	0.040	6	2	1	1
PL.29291	PL.29290	ABC	336 MCM AC	7.48Y	124.6	0.02	0.39	70.39	14	1503	485	95	0.12	0.0	0.601	0.030	0	0	0	277
PL.29014	PL.29291	C	#2 ACSR	7.48Y	124.6	0.00	0.39	3.52	2	25	8	95	0.00	0.0	0.605	0.005	0	0	0	4
PD.4061	PL.29014	C	65T	7.48Y	124.6	0.00	0.39	3.52	0	25	8	95	0.00	0.0	0.605	0.005	0	0	0	4
PL.29015	PD.4061	C	#2 ACSR	7.48Y	124.6	0.00	0.39	3.52	2	25	8	95	0.00	0.0	0.610	0.005	8	2	2	4
PL.29508	PL.29015	C	#2 ACSR	7.48Y	124.6	0.00	0.39	2.40	1	17	5	96	0.00	0.0	0.648	0.038	3	1	1	2
PL.29507	PL.29508	C	#2 ACSR	7.48Y	124.6	0.00	0.39	1.92	1	14	4	96	0.00	0.0	0.684	0.036	14	4	1	1
PL.29292	PL.29291	ABC	336 MCM AC	7.48Y	124.6	0.02	0.41	69.22	13	1478	477	95	0.18	0.0	0.646	0.045	6	2	1	273
PL.29293	PL.29292	ABC	336 MCM AC	7.47Y	124.5	0.05	0.46	68.93	13	1471	474	95	0.41	0.0	0.748	0.102	0	0	0	271
PL.29294	PL.29293	ABC	336 MCM AC	7.47Y	124.5	0.02	0.49	68.77	13	1467	472	95	0.15	0.0	0.785	0.038	0	0	0	269
PL.29496	PL.29294	ABC	336 MCM AC	7.47Y	124.5	0.01	0.50	68.23	13	1456	469	95	0.11	0.0	0.813	0.027	0	0	0	267
PL.29497	PL.29496	ABC	336 MCM AC	7.47Y	124.5	0.02	0.52	68.23	13	1456	468	95	0.16	0.0	0.853	0.040	10	3	1	267
PL.29201	PL.29497	ABC	336 MCM AC	7.47Y	124.5	0.03	0.55	67.75	13	1445	465	95	0.20	0.0	0.904	0.051	0	0	0	266
PL.29495	PL.29201	ABC	336 MCM AC	7.47Y	124.4	0.02	0.56	57.49	11	1233	371	96	0.10	0.0	0.939	0.035	1	0	1	253
PL.29679	PL.29495	ABC	336 MCM AC	7.46Y	124.4	0.05	0.61	57.44	11	1232	371	96	0.31	0.0	1.052	0.113	0	0	0	252
PL.29680	PL.29679	ABC	336 MCM AC	7.46Y	124.4	0.01	0.63	57.44	11	1232	370	96	0.09	0.0	1.085	0.033	0	0	0	252
PL.29206	PL.29680	ABC	336 MCM AC	7.46Y	124.4	0.01	0.64	32.69	6	701	210	96	0.04	0.0	1.127	0.042	0	0	0	148
PL.29671	PL.29206	C	#1/0 ACSR	7.46Y	124.4	0.00	0.64	7.49	3	54	16	96	0.00	0.0	1.130	0.003	0	0	0	18
PD.4090	PL.29671	C	35L	7.46Y	124.4	0.00	0.64	7.49	21	54	16	96	0.00	0.0	1.130	0.003	0	0	0	18
PL.29672	PD.4090	C	#1/0 ACSR	7.46Y	124.3	0.01	0.65	7.49	3	54	16	96	0.00	0.0	1.197	0.067	0	0	0	18
PL.29358	PL.29672	C	#1/0 ACSR	7.46Y	124.3	0.03	0.68	7.49	3	54	16	96	0.01	0.0	1.385	0.188	0	0	0	18
PL.29359	PL.29358	C	#1/0 ACSR	7.46Y	124.3	0.01	0.70	7.49	3	54	16	96	0.00	0.0	1.461	0.076	0	0	0	18
PL.29360	PL.29359	C	#1/0 ACSR	7.46Y	124.3	0.02	0.72	7.49	3	54	16	96	0.01	0.0	1.573	0.112	0	0	0	18
PL.29468	PL.29360	C	#1/0 ACSR	7.46Y	124.3	0.01	0.73	7.49	3	54	16	96	0.00	0.0	1.641	0.068	12	4	2	18
PL.29469	PL.29468	C	#1/0 ACSR	7.46Y	124.3	0.01	0.73	5.83	3	42	12	96	0.00	0.0	1.689	0.048	9	3	2	16
PL.29457	PL.29469	C	#1/0 ACSR	7.46Y	124.3	0.01	0.74	4.61	2	33	10	96	0.00	0.0	1.756	0.067	0	0	1	14
PL.29455	PL.29457	C	#4 ACSR	7.45Y	124.2	0.01	0.75	4.58	4	33	10	96	0.00	0.0	1.811	0.055	8	2	2	13
PL.29456	PL.29455	C	#4 ACSR	7.45Y	124.2	0.01	0.76	3.49	3	25	7	96	0.00	0.0	1.881	0.070	11	3	4	11

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

Balanced Voltage Drop Report
Source: Sand Gap

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.29454	PL.29456	C	#4 ACSR	7.45Y	124.2	0.01	0.77	2.01	2	14	4	96	0.00	0.0	1.981	0.101	9	3	3	7
PL.29449	PL.29454	C	#4 ACSR	7.45Y	124.2	0.00	0.77	0.76	1	5	2	93	0.00	0.0	2.070	0.088	1	0	1	4
PL.29426	PL.29449	C	#4 ACSR	7.45Y	124.2	0.00	0.77	0.64	0	5	1	98	0.00	0.0	2.203	0.133	0	0	0	3
PL.29413	PL.29426	C	#4 ACSR	7.45Y	124.2	0.00	0.77	0.64	0	5	1	98	0.00	0.0	2.280	0.078	2	0	1	3
PL.29414	PL.29413	C	#4 ACSR	7.45Y	124.2	0.00	0.78	0.42	0	3	1	95	0.00	0.0	2.386	0.106	0	0	0	2
PL.29296	PL.29414	C	#4 ACSR	7.45Y	124.2	0.00	0.78	0.10	0	1	0	100	0.00	0.0	2.472	0.086	1	0	1	1
PL.29210	PL.29414	C	#1/0 ACSR	7.45Y	124.2	0.00	0.78	0.32	0	2	1	89	0.00	0.0	2.521	0.135	0	0	0	1
PL.29361	PL.29210	C	#1/0 ACSR	7.45Y	124.2	0.00	0.78	0.32	0	2	1	89	0.00	0.0	2.674	0.153	0	0	0	1
PL.29362	PL.29361	C	#1/0 ACSR	7.45Y	124.2	0.00	0.78	0.32	0	2	1	89	0.00	0.0	2.757	0.083	2	1	1	1
PL.29312	PL.29426	C	#4 ACSR	7.45Y	124.2	0.00	0.77	0.00	0	0	0	100	0.00	0.0	2.249	0.046	0	0	0	0
PL.29475	PL.29206	ABC	#3/0 ACSR	7.46Y	124.4	0.00	0.64	28.53	10	612	183	96	0.01	0.0	1.135	0.007	15	4	2	122
PL.29476	PL.29475	ABC	#3/0 ACSR	7.46Y	124.3	0.03	0.67	27.83	9	597	179	96	0.10	0.0	1.213	0.078	25	7	4	120
PL.29473	PL.29476	ABC	#3/0 ACSR	7.46Y	124.3	0.03	0.69	25.67	9	550	165	96	0.09	0.0	1.292	0.079	7	2	1	110
PL.29474	PL.29473	ABC	#3/0 ACSR	7.46Y	124.3	0.04	0.73	25.34	8	543	163	96	0.13	0.0	1.411	0.119	0	0	0	109
PL.29472	PL.29474	ABC	#3/0 ACSR	7.45Y	124.2	0.04	0.77	25.34	8	543	163	96	0.12	0.0	1.520	0.109	0	0	0	109
PL.29461	PL.29472	ABC	#3/0 ACSR	7.45Y	124.2	0.01	0.78	22.47	7	481	144	96	0.04	0.0	1.572	0.052	13	4	3	98
PL.29462	PL.29461	ABC	#3/0 ACSR	7.45Y	124.2	0.02	0.80	21.84	7	468	140	96	0.04	0.0	1.629	0.057	31	9	8	95
PL.29458	PL.29462	ABC	#3/0 ACSR	7.45Y	124.2	0.02	0.81	20.40	7	437	131	96	0.04	0.0	1.691	0.063	0	0	0	87
PL.29450	PL.29458	ABC	#3/0 ACSR	7.45Y	124.2	0.01	0.82	20.40	7	437	131	96	0.02	0.0	1.725	0.034	23	7	3	87
PL.29315	PL.29450	ABC	#3/0 ACSR	7.45Y	124.2	0.02	0.84	18.21	6	390	117	96	0.04	0.0	1.802	0.077	0	0	0	79
PL.29238	PL.29315	C	#4 ACSR	7.45Y	124.2	0.00	0.84	4.29	3	31	9	96	0.00	0.0	1.806	0.004	0	0	0	6
PD.4023	PL.29238	C	30T	7.45Y	124.2	0.00	0.84	4.29	0	31	9	96	0.00	0.0	1.806	0.004	0	0	0	6
PL.29428	PD.4023	C	#4 ACSR	7.45Y	124.2	0.01	0.85	3.17	2	23	7	96	0.00	0.0	1.870	0.064	5	2	1	4
PL.29429	PL.29428	C	#4 ACSR	7.45Y	124.1	0.01	0.86	2.45	2	17	5	96	0.00	0.0	1.932	0.061	8	2	1	3
PL.29427	PL.29429	C	#4 ACSR	7.45Y	124.1	0.00	0.86	1.32	1	9	3	95	0.00	0.0	1.984	0.052	9	3	2	2
PL.29237	PD.4023	C	#4 ACSR	7.45Y	124.2	0.00	0.84	1.12	1	8	2	97	0.00	0.0	1.831	0.025	8	2	2	2
PL.29316	PL.29315	ABC	#3/0 ACSR	7.45Y	124.2	0.01	0.85	14.14	5	303	90	96	0.01	0.0	1.830	0.028	0	0	0	67
PL.29601	PL.29316	A	#1/0 ACSR	7.45Y	124.2	0.00	0.85	0.83	0	6	2	95	0.00	0.0	1.835	0.005	0	0	0	1
PD.4022	PL.29601	A	65T	7.45Y	124.2	0.00	0.85	0.83	0	6	2	95	0.00	0.0	1.835	0.005	0	0	0	1
PL.29602	PD.4022	A	#1/0 ACSR	7.45Y	124.2	0.00	0.85	0.83	0	6	2	95	0.00	0.0	1.847	0.012	6	2	1	1
PL.29318	PL.29316	ABC	#3/0 ACSR	7.45Y	124.1	0.02	0.86	13.86	5	297	89	96	0.03	0.0	1.920	0.090	22	7	10	66

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: Sand Gap

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.29319	PL.29318	ABC	#3/0 ACSR	7.45Y	124.1	0.01	0.87	12.83	4	275	82	96	0.02	0.0	1.985	0.065	0	0	0	56
PL.29599	PL.29319	A	6 A (CWC)	7.45Y	124.1	0.00	0.87	2.66	2	19	6	95	0.00	0.0	1.990	0.004	0	0	0	7
PD.4021	PL.29599	A	65T	7.45Y	124.1	0.00	0.87	2.66	0	19	6	95	0.00	0.0	1.990	0.004	0	0	0	7
PL.29600	PD.4021	A	6 A (CWC)	7.45Y	124.1	0.00	0.87	2.66	2	19	6	95	0.00	0.0	2.006	0.017	4	1	1	7
PL.29432	PL.29600	A	6 A (CWC)	7.45Y	124.1	0.00	0.88	2.17	2	15	5	95	0.00	0.0	2.065	0.059	12	4	4	6
PL.29433	PL.29432	A	6 A (CWC)	7.45Y	124.1	0.00	0.88	0.50	0	4	1	97	0.00	0.0	2.175	0.110	1	0	1	2
PL.29431	PL.29433	A	6 A (CWC)	7.45Y	124.1	0.00	0.88	0.37	0	3	1	95	0.00	0.0	2.252	0.077	3	1	1	1
PL.29424	PL.29319	ABC	#3/0 ACSR	7.45Y	124.1	0.01	0.88	11.95	4	256	76	96	0.01	0.0	2.042	0.057	21	6	5	49
PL.29425	PL.29424	ABC	#3/0 ACSR	7.45Y	124.1	0.01	0.89	10.95	4	234	70	96	0.01	0.0	2.100	0.057	10	3	7	44
PL.29241	PL.29425	C	#4 ACSR	7.45Y	124.1	0.00	0.89	8.34	6	60	18	96	0.00	0.0	2.104	0.005	0	0	0	12
PD.4019	PL.29241	C	65T	7.45Y	124.1	0.00	0.89	8.34	0	60	18	96	0.00	0.0	2.104	0.005	0	0	0	12
PL.29322	PD.4019	C	#4 ACSR	7.45Y	124.1	0.00	0.89	1.01	1	7	2	96	0.00	0.0	2.165	0.060	7	2	1	1
PL.29242	PD.4019	C	#4 ACSR	7.45Y	124.1	0.03	0.92	7.33	6	52	16	96	0.01	0.0	2.189	0.084	9	3	2	11
PL.29249	PL.29242	C	6 A (CWC)	7.44Y	124.1	0.01	0.92	2.83	2	20	6	96	0.00	0.0	2.271	0.082	20	6	3	3
PL.29420	PL.29242	C	#4 ACSR	7.44Y	124.1	0.00	0.92	3.19	2	23	7	96	0.00	0.0	2.218	0.030	7	2	1	6
PL.29421	PL.29420	C	#4 ACSR	7.44Y	124.1	0.01	0.93	2.20	2	16	5	95	0.00	0.0	2.354	0.135	3	1	1	5
PL.29243	PL.29421	C	#4 ACSR	7.44Y	124.1	0.00	0.93	0.81	1	6	2	95	0.00	0.0	2.410	0.056	6	2	2	2
PL.29323	PL.29421	C	#4 ACSR	7.44Y	124.1	0.01	0.94	1.04	1	7	2	96	0.00	0.0	2.489	0.136	0	0	0	2
PL.29363	PL.29323	C	#4 ACSR	7.44Y	124.1	0.00	0.94	1.04	1	7	2	96	0.00	0.0	2.594	0.105	2	1	1	2
PL.29250	PL.29363	C	#4 ACSR	7.44Y	124.1	0.00	0.94	0.75	1	5	2	93	0.00	0.0	2.635	0.041	5	2	1	1
PL.29320	PL.29425	ABC	#3/0 ACSR	7.45Y	124.1	0.01	0.90	7.69	3	165	49	96	0.01	0.0	2.188	0.088	0	0	0	25
PL.29422	PL.29320	C	6 A (CWC)	7.45Y	124.1	0.00	0.90	3.32	2	24	7	96	0.00	0.0	2.204	0.017	11	3	1	4
PL.29423	PL.29422	C	6 A (CWC)	7.45Y	124.1	0.00	0.90	1.83	1	13	4	96	0.00	0.0	2.256	0.052	13	4	3	3
PL.29321	PL.29320	ABC	#3/0 ACSR	7.45Y	124.1	0.01	0.91	6.58	2	141	42	96	0.01	0.0	2.285	0.097	0	0	0	21
PL.29597	PL.29321	C	#4 ACSR	7.45Y	124.1	0.00	0.91	7.13	5	51	15	96	0.00	0.0	2.289	0.005	0	0	0	8
PD.4020	PL.29597	C	T	7.45Y	124.1	0.00	0.91	7.13	0	51	15	96	0.00	0.0	2.289	0.005	0	0	0	8
PL.29598	PD.4020	C	#4 ACSR	7.44Y	124.1	0.02	0.93	7.13	5	51	15	96	0.01	0.0	2.357	0.068	17	5	2	8
PL.29247	PL.29598	C	#1/0 ACSR	7.44Y	124.1	0.00	0.93	2.03	1	15	4	97	0.00	0.0	2.394	0.036	15	4	1	1
PL.29324	PL.29598	C	#4 ACSR	7.44Y	124.1	0.00	0.93	0.97	1	7	2	96	0.00	0.0	2.449	0.091	0	0	0	1
PL.29364	PL.29324	C	#4 ACSR	7.44Y	124.1	0.00	0.93	0.97	1	7	2	96	0.00	0.0	2.564	0.115	0	0	0	1
PL.29248	PL.29364	C	#1/0 ACSR	7.44Y	124.1	0.00	0.93	0.97	0	7	2	96	0.00	0.0	2.634	0.070	7	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: Sand Gap

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.29246	PL.29598	C	#4 ACSR	7.44Y	124.1	0.00	0.93	1.80	1	13	4	96	0.00	0.0	2.418	0.061	0	0	0	4
PL.29244	PL.29246	C	#4 ACSR	7.44Y	124.1	0.00	0.93	1.80	1	13	4	96	0.00	0.0	2.455	0.037	11	3	2	4
PL.29245	PL.29244	C	#4 ACSR	7.44Y	124.1	0.00	0.93	0.31	0	2	1	89	0.00	0.0	2.497	0.042	2	1	2	2
PL.29325	PL.29321	ABC	#3/0 ACSR	7.45Y	124.1	0.01	0.91	4.20	1	90	27	96	0.00	0.0	2.379	0.094	0	0	0	13
PL.29418	PL.29325	ABC	#3/0 ACSR	7.45Y	124.1	0.01	0.92	4.20	1	90	27	96	0.00	0.0	2.477	0.098	7	2	1	13
PL.29419	PL.29418	ABC	#3/0 ACSR	7.44Y	124.1	0.00	0.92	3.86	1	83	25	96	0.00	0.0	2.569	0.092	0	0	0	12
PL.29365	PL.29419	ABC	#3/0 ACSR	7.44Y	124.1	0.01	0.93	3.86	1	83	25	96	0.00	0.0	2.670	0.101	0	0	0	12
PL.29416	PL.29365	ABC	#3/0 ACSR	7.44Y	124.1	0.00	0.93	3.86	1	83	25	96	0.00	0.0	2.748	0.078	23	7	6	12
PL.29417	PL.29416	ABC	#3/0 ACSR	7.44Y	124.1	0.00	0.93	2.81	1	60	18	96	0.00	0.0	2.846	0.098	0	0	0	6
PL.29381	PL.29417	ABC	#3/0 ACSR	7.44Y	124.1	0.00	0.93	0.52	0	11	3	96	0.00	0.0	2.850	0.004	0	0	0	4
PL.29415	PL.29381	ABC	#3/0 ACSR	7.44Y	124.1	0.00	0.93	0.52	0	11	3	96	0.00	0.0	3.017	0.167	11	3	4	4
PL.29663	PL.29415	ABC	#3/0 ACSR	7.44Y	124.1	0.00	0.93	0.00	0	0	0	100	0.00	0.0	3.116	0.098	0	0	0	0
PD.4086-A	PL.29663	ABC	Open	7.44Y	124.1	0.00	0.93	0.00	0	0	0	100	0.00	0.0	3.116	0.098	0	0	0	0
PL.29251	PL.29417	ABC	#3/0 ACSR	7.44Y	124.1	0.00	0.93	1.97	1	42	13	96	0.00	0.0	2.851	0.005	42	13	1	1
PL.29595	PL.29417	A	6 A (CWC)	7.44Y	124.1	0.00	0.93	0.96	1	7	2	96	0.00	0.0	2.851	0.005	0	0	0	1
PD.4018	PL.29595	A	T	7.44Y	124.1	0.00	0.93	0.96	0	7	2	96	0.00	0.0	2.851	0.005	0	0	0	1
PL.29596	PD.4018	A	6 A (CWC)	7.44Y	124.1	0.00	0.93	0.96	1	7	2	96	0.00	0.0	2.916	0.065	7	2	1	1
PL.29656	PL.29315	A	#4 ACSR	7.45Y	124.2	0.00	0.84	7.91	6	56	17	96	0.00	0.0	1.807	0.004	0	0	0	6
PD.4081	PL.29656	A	65T	7.45Y	124.2	0.00	0.84	7.91	0	56	17	96	0.00	0.0	1.807	0.004	0	0	0	6
PL.29657	PD.4081	A	#4 ACSR	7.45Y	124.2	0.01	0.85	7.91	6	56	17	96	0.00	0.0	1.834	0.027	34	10	1	6
PL.29430	PL.29657	A	#4 ACSR	7.45Y	124.1	0.01	0.86	3.14	2	22	7	95	0.00	0.0	1.901	0.066	0	0	0	5
PL.29317	PL.29430	A	#4 ACSR	7.45Y	124.1	0.00	0.86	1.95	1	14	4	96	0.00	0.0	1.955	0.055	6	2	2	3
PL.29240	PL.29317	A	#4 ACSR	7.45Y	124.1	0.00	0.86	1.11	1	8	2	97	0.00	0.0	2.026	0.071	8	2	1	1
PL.29239	PL.29430	A	#4 ACSR	7.45Y	124.1	0.00	0.86	1.19	1	9	3	95	0.00	0.0	1.953	0.052	9	3	2	2
PL.29661	PL.29450	ABC	#4 ACSR	7.45Y	124.2	0.00	0.82	1.12	1	24	7	96	0.00	0.0	1.730	0.005	0	0	0	5
PD.4085	PL.29661	ABC	65T	7.45Y	124.2	0.00	0.82	1.12	0	24	7	96	0.00	0.0	1.730	0.005	0	0	0	5
PL.29662	PD.4085	ABC	#4 ACSR	7.45Y	124.2	0.00	0.82	1.12	1	24	7	96	0.00	0.0	1.751	0.021	6	2	1	5
PL.29451	PL.29662	ABC	#4 ACSR	7.45Y	124.2	0.00	0.83	0.84	1	18	5	96	0.00	0.0	1.803	0.052	0	0	0	4
PL.29236	PL.29451	ABC	#4 ACSR	7.45Y	124.2	0.00	0.83	0.00	0	0	0	100	0.00	0.0	1.820	0.017	0	0	0	0
PL.29452	PL.29451	A	#4 ACSR	7.45Y	124.2	0.00	0.83	2.53	2	18	5	96	0.00	0.0	1.822	0.019	9	3	2	4
PL.29453	PL.29452	A	#4 ACSR	7.45Y	124.2	0.00	0.83	1.31	1	9	3	95	0.00	0.0	1.852	0.030	9	3	2	2

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Balanced Voltage Drop Report
Source: Sand Gap

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.29613	PL.29472	C	#4 ACSR	7.45Y	124.2	0.00	0.77	0.28	0	2	1	89	0.00	0.0	1.524	0.004	0	0	0	1
PD.4031	PL.29613	C	65T	7.45Y	124.2	0.00	0.77	0.28	0	2	1	89	0.00	0.0	1.524	0.004	0	0	0	1
PL.29614	PD.4031	C	#4 ACSR	7.45Y	124.2	0.00	0.77	0.28	0	2	1	89	0.00	0.0	1.585	0.061	2	1	1	1
PL.29654	PL.29472	A	6 A (CWC)	7.45Y	124.2	0.00	0.77	8.35	6	60	18	96	0.00	0.0	1.524	0.004	0	0	0	10
PD.4080	PL.29654	A	65T	7.45Y	124.2	0.00	0.77	8.35	0	60	18	96	0.00	0.0	1.524	0.004	0	0	0	10
PL.29655	PD.4080	A	6 A (CWC)	7.45Y	124.2	0.02	0.79	8.35	6	60	18	96	0.01	0.0	1.572	0.048	9	3	1	10
PL.29463	PL.29655	A	6 A (CWC)	7.45Y	124.2	0.00	0.79	7.04	5	50	15	96	0.00	0.0	1.581	0.009	6	2	1	9
PL.28394	PL.29463	A	6 A (CWC)	7.45Y	124.2	0.01	0.80	3.86	3	28	8	96	0.00	0.0	1.621	0.040	0	0	0	6
PL.28395	PL.28394	A	#2 ACSR	7.45Y	124.2	0.00	0.80	3.86	2	28	8	96	0.00	0.0	1.659	0.038	0	0	1	6
PL.29313	PL.28395	A	#2 ACSR	7.45Y	124.2	0.01	0.81	1.99	1	14	4	96	0.00	0.0	1.828	0.169	9	3	1	3
PL.29235	PL.29313	A	6 A (CWC)	7.45Y	124.2	0.00	0.81	0.70	1	5	1	98	0.00	0.0	1.849	0.021	0	0	0	2
PL.29459	PL.29235	A	#4 ACSR	7.45Y	124.2	0.00	0.81	0.70	1	5	1	98	0.00	0.0	1.921	0.071	0	0	0	2
PL.29460	PL.29459	A	#4 ACSR	7.45Y	124.2	0.00	0.81	0.70	1	5	1	98	0.00	0.0	1.963	0.042	0	0	0	2
PL.29314	PL.29460	A	#4 ACSR	7.45Y	124.2	0.00	0.81	0.46	0	3	1	95	0.00	0.0	2.072	0.109	3	1	1	1
PL.29466	PL.29460	A	#4 ACSR	7.45Y	124.2	0.00	0.81	0.25	0	2	1	89	0.00	0.0	2.107	0.144	0	0	0	1
PL.29467	PL.29466	A	#4 ACSR	7.45Y	124.2	0.00	0.81	0.25	0	2	1	89	0.00	0.0	2.126	0.020	2	1	1	1
PL.29234	PL.28395	A	#4 ACSR	7.45Y	124.2	0.00	0.80	1.87	1	13	4	96	0.00	0.0	1.739	0.079	13	4	2	2
PL.29464	PL.29463	A	#2 ACSR	7.45Y	124.2	0.00	0.79	2.28	1	16	5	95	0.00	0.0	1.638	0.056	9	3	1	2
PL.29465	PL.29464	A	#2 ACSR	7.45Y	124.2	0.00	0.79	1.01	1	7	2	96	0.00	0.0	1.681	0.043	7	2	1	1
PL.29211	PL.29476	C	6 A (CWC)	7.46Y	124.3	0.00	0.67	3.02	2	22	6	96	0.00	0.0	1.217	0.004	0	0	0	6
PD.4034	PL.29211	C	65T	7.46Y	124.3	0.00	0.67	3.02	0	22	6	96	0.00	0.0	1.217	0.004	0	0	0	6
PL.28392	PD.4034	C	#2 ACSR	7.46Y	124.3	0.00	0.67	1.37	1	10	3	96	0.00	0.0	1.282	0.065	0	0	1	4
PL.29298	PL.28392	C	#2 ACSR	7.46Y	124.3	0.00	0.67	1.00	1	7	2	96	0.00	0.0	1.337	0.055	7	2	1	1
PL.28393	PL.28392	C	6 A (CWC)	7.46Y	124.3	0.00	0.67	0.37	0	3	1	95	0.00	0.0	1.324	0.042	3	1	2	2
PL.29297	PD.4034	C	6 A (CWC)	7.46Y	124.3	0.00	0.67	1.65	1	12	4	95	0.00	0.0	1.252	0.035	0	0	0	2
PL.28391	PL.29297	C	#1/0 ACSR	7.46Y	124.3	0.00	0.67	1.65	1	12	4	95	0.00	0.0	1.270	0.018	12	4	2	2
PL.29208	PL.29206	ABC	#3/0 ACSR	7.46Y	124.4	0.00	0.64	1.67	1	36	11	96	0.00	0.0	1.170	0.042	9	3	3	8
PL.29209	PL.29208	ABC	#3/0 ACSR	7.46Y	124.4	0.00	0.64	1.07	0	23	7	96	0.00	0.0	1.197	0.027	1	0	1	4
PL.29203	PL.29209	B	#1/0 ACSR	7.46Y	124.4	0.00	0.64	3.15	1	22	7	95	0.00	0.0	1.263	0.066	22	7	3	3
PL.29619	PL.29208	C	#2 ACSR	7.46Y	124.4	0.00	0.64	0.47	0	3	1	95	0.00	0.0	1.174	0.005	0	0	0	1
PD.4035	PL.29619	C	T	7.46Y	124.4	0.00	0.64	0.47	0	3	1	95	0.00	0.0	1.174	0.005	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: Sand Gap

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.29620	PD.4035	C	#2 ACSR	7.46Y	124.4	0.00	0.64	0.47	0	3	1	95	0.00	0.0	1.263	0.088	3	1	1	1
PL.29207	PL.29680	ABC	#1/0 ACSR	7.46Y	124.4	0.02	0.65	24.75	11	531	160	96	0.07	0.0	1.129	0.044	0	0	0	104
PL.29623	PL.29207	A	#1/0 ACSR	7.46Y	124.4	0.00	0.65	0.81	0	6	2	95	0.00	0.0	1.134	0.005	0	0	0	1
PD.4037	PL.29623	A	65T	7.46Y	124.4	0.00	0.65	0.81	0	6	2	95	0.00	0.0	1.134	0.005	0	0	0	1
PL.29624	PD.4037	A	#1/0 ACSR	7.46Y	124.4	0.00	0.65	0.81	0	6	2	95	0.00	0.0	1.155	0.021	6	2	1	1
PL.29299	PL.29207	ABC	#1/0 ACSR	7.46Y	124.3	0.03	0.67	24.48	11	525	158	96	0.09	0.0	1.188	0.059	1	0	1	103
PL.29625	PL.29299	A	#1/0 ACSR	7.46Y	124.3	0.00	0.67	0.03	0	0	0	100	0.00	0.0	1.193	0.005	0	0	0	1
PD.4038	PL.29625	A	65T	7.46Y	124.3	0.00	0.67	0.03	0	0	0	100	0.00	0.0	1.193	0.005	0	0	0	1
PL.29626	PD.4038	A	#1/0 ACSR	7.46Y	124.3	0.00	0.67	0.03	0	0	0	100	0.00	0.0	1.237	0.044	0	0	1	1
PL.29481	PL.29626	A	#1/0 ACSR	7.46Y	124.3	0.00	0.67	0.00	0	0	0	100	0.00	0.0	1.280	0.043	0	0	0	0
PL.29300	PL.29299	ABC	#1/0 ACSR	7.46Y	124.3	0.02	0.69	24.41	11	523	157	96	0.07	0.0	1.232	0.044	0	0	0	101
PL.29677	PL.29300	ABC	#1/0 ACSR	7.46Y	124.3	0.03	0.72	22.38	10	480	144	96	0.09	0.0	1.297	0.065	0	0	0	94
PD.4094	PL.29677	ABC	50L	7.46Y	124.3	0.00	0.72	22.38	45	479	144	96	0.00	0.0	1.297	0.065	0	0	0	94
PL.29678	PD.4094	ABC	#1/0 ACSR	7.45Y	124.2	0.06	0.78	22.38	10	479	144	96	0.21	0.0	1.453	0.156	7	2	1	94
PL.29487	PL.29678	ABC	#1/0 ACSR	7.45Y	124.2	0.03	0.81	22.06	10	472	142	96	0.08	0.0	1.515	0.062	0	0	0	93
PL.29215	PL.29487	C	#2 ACSR	7.45Y	124.2	0.00	0.81	1.25	1	9	3	95	0.00	0.0	1.540	0.025	0	0	0	1
PL.28984	PL.29215	C	6 A (CWC)	7.45Y	124.2	0.00	0.81	1.25	1	9	3	95	0.00	0.0	1.545	0.005	0	0	0	1
PD.4045	PL.28984	C	20T	7.45Y	124.2	0.00	0.81	1.25	0	9	3	95	0.00	0.0	1.545	0.005	0	0	0	1
PL.28985	PD.4045	C	6 A (CWC)	7.45Y	124.2	0.00	0.81	1.25	1	9	3	95	0.00	0.0	1.627	0.082	9	3	1	1
PL.29214	PL.29487	ABC	#1/0 ACSR	7.45Y	124.1	0.05	0.86	21.64	9	463	139	96	0.16	0.0	1.641	0.126	0	0	0	92
PL.29301	PL.29214	ABC	#1/0 ACSR	7.45Y	124.1	0.05	0.91	19.60	9	419	126	96	0.14	0.0	1.780	0.138	2	1	1	82
PL.29304	PL.29301	ABC	#1/0 ACSR	7.44Y	124.1	0.03	0.94	18.23	8	390	117	96	0.08	0.0	1.875	0.096	0	0	1	76
PL.29383	PL.29304	ABC	#1/0 ACSR	7.44Y	124.0	0.01	0.95	18.23	8	390	117	96	0.03	0.0	1.914	0.039	0	0	0	75
PL.29384	PL.29383	ABC	#1/0 ACSR	7.44Y	124.0	0.01	0.96	7.78	3	166	50	96	0.01	0.0	1.963	0.049	0	0	0	41
PL.29385	PL.29384	ABC	#1/0 ACSR	7.44Y	124.0	0.00	0.96	7.77	3	166	50	96	0.01	0.0	1.997	0.033	0	0	0	40
PL.29224	PL.29385	A	6 A (CWC)	7.44Y	123.9	0.09	1.06	21.69	15	155	46	96	0.11	0.1	2.092	0.095	3	1	2	38
PL.29222	PL.29224	A	6 A (CWC)	7.43Y	123.9	0.08	1.14	21.29	15	152	46	96	0.09	0.1	2.176	0.084	0	0	0	36
PL.29483	PL.29222	A	6 A (CWC)	7.42Y	123.7	0.13	1.27	21.29	15	152	45	96	0.15	0.1	2.314	0.138	8	2	4	36
PL.29484	PL.29483	A	6 A (CWC)	7.42Y	123.7	0.04	1.31	20.22	14	144	43	96	0.04	0.0	2.355	0.041	0	0	0	32
PL.29485	PL.29484	A	6 A (CWC)	7.42Y	123.6	0.09	1.40	19.12	14	136	41	96	0.09	0.1	2.458	0.104	9	3	1	31
PL.29486	PL.29485	A	6 A (CWC)	7.41Y	123.5	0.10	1.50	17.92	13	127	38	96	0.09	0.1	2.578	0.120	0	0	0	30

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Balanced Voltage Drop Report
Source: Sand Gap

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.29227	PL.29486	A	6 A (CWC)	7.41Y	123.5	0.02	1.51	3.88	3	28	8	96	0.00	0.0	2.680	0.102	2	1	1	5
PL.29311	PL.29227	A	6 A (CWC)	7.41Y	123.5	0.00	1.52	2.05	1	15	4	97	0.00	0.0	2.732	0.052	7	2	1	2
PL.29233	PL.29311	A	#1/0 ACSR	7.41Y	123.5	0.00	1.52	1.13	0	8	2	97	0.00	0.0	2.875	0.142	8	2	1	1
PL.29232	PL.29227	A	#4 ACSR	7.41Y	123.5	0.00	1.52	1.50	1	11	3	96	0.00	0.0	2.726	0.045	11	3	2	2
PL.29305	PL.29486	A	6 A (CWC)	7.41Y	123.5	0.03	1.52	14.04	10	100	30	96	0.02	0.0	2.619	0.041	0	0	0	25
PL.29228	PL.29305	A	6 A (CWC)	7.41Y	123.5	0.00	1.53	14.04	10	100	30	96	0.00	0.0	2.624	0.005	0	0	0	25
PD.4047	PL.29228	A	20T	7.41Y	123.5	0.00	1.53	14.04	0	100	30	96	0.00	0.0	2.624	0.005	0	0	0	25
PL.29229	PD.4047	A	#1/0 ACSR	7.41Y	123.5	0.00	1.53	0.90	0	6	2	95	0.00	0.0	2.718	0.094	0	0	0	1
PL.29230	PL.29229	A	#1/0 ACSR	7.41Y	123.5	0.00	1.53	0.90	0	6	2	95	0.00	0.0	2.795	0.077	6	2	1	1
PL.29310	PD.4047	A	6 A (CWC)	7.40Y	123.4	0.06	1.58	13.13	9	93	28	96	0.04	0.0	2.718	0.094	0	0	0	24
PL.29231	PL.29310	A	#1/0 ACSR	7.40Y	123.4	0.00	1.58	0.78	0	6	2	95	0.00	0.0	2.752	0.034	6	2	1	1
PL.29309	PL.29310	A	6 A (CWC)	7.40Y	123.3	0.11	1.69	12.36	9	88	26	96	0.07	0.1	2.903	0.185	0	0	0	23
PL.28373	PL.29309	A	6 A (CWC)	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	2.994	0.091	0	0	1	2
PL.28374	PL.28373	A	#4 ACSR	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	3.092	0.098	0	0	1	1
PL.29538	PL.29309	A	6 A (CWC)	7.39Y	123.2	0.06	1.75	12.36	9	88	26	96	0.04	0.0	3.015	0.111	1	0	1	21
PL.29539	PL.29538	A	6 A (CWC)	7.39Y	123.2	0.04	1.79	12.19	9	86	26	96	0.03	0.0	3.088	0.074	0	0	0	20
PL.28372	PL.29539	A	#4 ACSR	7.39Y	123.1	0.09	1.88	10.76	8	76	23	96	0.05	0.1	3.266	0.178	0	0	0	18
PL.29357	PL.28372	A	#4 ACSR	7.38Y	123.1	0.05	1.93	10.76	8	76	23	96	0.03	0.0	3.365	0.099	0	0	0	18
PL.29436	PL.29357	A	#4 ACSR	7.38Y	123.0	0.04	1.97	10.76	8	76	23	96	0.02	0.0	3.455	0.090	5	1	1	18
PL.29437	PL.29436	A	#4 ACSR	7.38Y	123.0	0.02	1.99	10.08	8	71	21	96	0.01	0.0	3.497	0.042	0	0	0	17
PL.29438	PL.29437	A	#4 ACSR	7.38Y	123.0	0.02	2.01	9.28	7	66	20	96	0.01	0.0	3.558	0.061	5	2	1	14
PL.29439	PL.29438	A	#4 ACSR	7.38Y	122.9	0.04	2.05	8.54	7	60	18	96	0.02	0.0	3.662	0.104	0	0	0	13
PL.29540	PL.29439	A	#4 ACSR	7.37Y	122.9	0.04	2.09	8.54	7	60	18	96	0.02	0.0	3.773	0.111	9	3	2	13
PL.29541	PL.29540	A	#4 ACSR	7.37Y	122.9	0.04	2.13	7.28	6	51	15	96	0.02	0.0	3.909	0.137	6	2	2	11
PL.28375	PL.29541	A	#4 ACSR	7.37Y	122.8	0.03	2.16	6.46	5	46	14	96	0.01	0.0	4.028	0.118	11	3	2	9
PL.28376	PL.28375	A	#4 ACSR	7.37Y	122.8	0.00	2.16	0.51	0	4	1	97	0.00	0.0	4.095	0.068	4	1	2	2
PL.29306	PL.28375	A	#4 ACSR	7.37Y	122.8	0.01	2.17	4.45	3	31	9	96	0.00	0.0	4.085	0.058	10	3	2	5
PL.29307	PL.29306	A	#4 ACSR	7.37Y	122.8	0.00	2.18	1.72	1	12	4	95	0.00	0.0	4.152	0.067	12	4	2	2
PL.28377	PL.29306	A	#4 ACSR	7.37Y	122.8	0.00	2.18	1.37	1	10	3	96	0.00	0.0	4.163	0.078	10	3	1	1
PL.29434	PL.29437	A	#4 ACSR	7.38Y	123.0	0.00	1.99	0.80	1	6	2	95	0.00	0.0	3.543	0.046	0	0	1	3
PL.29435	PL.29434	A	#4 ACSR	7.38Y	123.0	0.00	1.99	0.78	1	5	2	93	0.00	0.0	3.575	0.031	5	2	2	2

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

Balanced Voltage Drop Report
Source: Sand Gap

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.29308	PL.29539	A	6 A (CWC)	7.39Y	123.2	0.01	1.80	1.43	1	10	3	96	0.00	0.0	3.264	0.176	0	0	0	2
PL.29356	PL.29308	A	6 A (CWC)	7.39Y	123.2	0.00	1.81	1.43	1	10	3	96	0.00	0.0	3.327	0.062	6	2	1	2
PL.28371	PL.29356	A	#1/0 ACSR	7.39Y	123.2	0.00	1.81	0.64	0	5	1	98	0.00	0.0	3.356	0.029	0	0	0	1
PL.28370	PL.28371	A	#1/0 ACSR	7.39Y	123.2	0.00	1.81	0.64	0	5	1	98	0.00	0.0	3.433	0.077	5	1	1	1
PL.29226	PL.29484	A	#4 ACSR	7.42Y	123.7	0.00	1.31	1.10	1	8	2	97	0.00	0.0	2.401	0.046	8	2	1	1
PL.29223	PL.29385	B	#1/0 ACSR	7.44Y	124.0	0.00	0.96	1.62	1	12	3	97	0.00	0.0	2.010	0.014	0	0	0	2
PL.29629	PL.29223	B	1/0 AL URD	7.44Y	124.0	0.00	0.96	1.62	1	12	3	97	0.00	0.0	2.015	0.005	0	0	0	2
PD.4040	PL.29629	B	20T	7.44Y	124.0	0.00	0.96	1.62	0	12	3	97	0.00	0.0	2.015	0.005	0	0	0	2
PL.28978	PD.4040	B	1/0 AL URD	7.44Y	124.0	0.00	0.97	1.62	1	12	3	97	0.00	0.0	2.049	0.034	12	3	2	2
PL.28979	PL.29384	C	#4 ACSR	7.44Y	124.0	0.00	0.96	0.03	0	0	0	100	0.00	0.0	1.968	0.005	0	0	0	1
PD.4041	PL.28979	C	20T	7.44Y	124.0	0.00	0.96	0.03	0	0	0	100	0.00	0.0	1.968	0.005	0	0	0	1
PL.28980	PD.4041	C	#4 ACSR	7.44Y	124.0	0.00	0.96	0.03	0	0	0	100	0.00	0.0	2.011	0.044	0	0	1	1
PL.29627	PL.29383	B	#1/0 ACSR	7.44Y	124.0	0.00	0.95	31.35	14	224	67	96	0.00	0.0	1.918	0.004	0	0	0	34
PD.4039	PL.29627	B	20T	7.44Y	124.0	0.00	0.95	31.35	0	224	67	96	0.00	0.0	1.918	0.004	0	0	0	34
PL.29628	PD.4039	B	#1/0 ACSR	7.44Y	124.0	0.04	0.99	31.35	14	224	67	96	0.05	0.0	1.970	0.052	6	2	2	34
PL.29482	PL.29628	B	#1/0 ACSR	7.44Y	124.0	0.05	1.04	30.44	13	217	65	96	0.07	0.0	2.043	0.072	0	0	0	32
PL.28981	PL.29482	B	1/0 AL URD	7.44Y	124.0	0.00	1.05	12.53	7	89	27	96	0.00	0.0	2.047	0.004	0	0	0	13
PD.4042	PL.28981	B	12T	7.44Y	124.0	0.00	1.05	12.53	0	89	27	96	0.00	0.0	2.047	0.004	0	0	0	13
PL.28378	PD.4042	B	1/0 AL URD	7.44Y	123.9	0.03	1.08	12.53	7	89	27	96	0.02	0.0	2.126	0.079	0	0	1	13
PL.28382	PL.28378	B	1/0 AL URD	7.44Y	123.9	0.00	1.08	0.99	1	7	2	96	0.00	0.0	2.151	0.025	7	2	1	1
PL.29387	PL.28378	B	1/0 AL URD	7.43Y	123.9	0.02	1.10	11.54	7	82	25	96	0.01	0.0	2.192	0.066	7	2	1	11
PL.28380	PL.29387	B	1/0 AL URD	7.43Y	123.9	0.00	1.10	1.35	1	10	3	96	0.00	0.0	2.229	0.037	10	3	2	2
PL.29570	PL.29387	B	1/0 AL URD	7.43Y	123.9	0.03	1.13	9.19	5	65	20	96	0.02	0.0	2.308	0.116	9	3	1	8
PL.29571	PL.29570	B	1/0 AL URD	7.43Y	123.9	0.01	1.14	7.91	5	56	17	96	0.00	0.0	2.340	0.033	0	0	0	7
PL.29568	PL.29571	B	1/0 AL URD	7.43Y	123.9	0.01	1.15	6.12	4	44	13	96	0.00	0.0	2.388	0.048	13	4	2	6
PL.29569	PL.29568	B	1/0 AL URD	7.43Y	123.8	0.01	1.15	4.32	3	31	9	96	0.00	0.0	2.453	0.064	8	2	1	4
PL.29567	PL.29569	B	1/0 AL URD	7.43Y	123.8	0.00	1.16	3.26	2	23	7	96	0.00	0.0	2.509	0.056	7	2	1	3
PL.29572	PL.29567	B	1/0 AL URD	7.43Y	123.8	0.00	1.16	2.34	1	17	5	96	0.00	0.0	2.563	0.054	17	5	2	2
PL.28381	PL.29572	B	1/0 AL URD	7.43Y	123.8	0.00	1.16	0.00	0	0	0	100	0.00	0.0	2.702	0.139	0	0	0	0
PL.29225	PL.29571	B	1/0 AL URD	7.43Y	123.9	0.00	1.14	1.79	1	13	4	96	0.00	0.0	2.343	0.003	0	0	0	1
PL.28986	PL.29225	B	#1/0 ACSR	7.43Y	123.9	0.00	1.14	1.79	1	13	4	96	0.00	0.0	2.348	0.005	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: Sand Gap

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.4046	PL.28986	B	T	7.43Y	123.9	0.00	1.14	1.79	0	13	4	96	0.00	0.0	2.348	0.005	0	0	0	1
PL.28987	PD.4046	B	#1/0 ACSR	7.43Y	123.9	0.00	1.14	1.79	1	13	4	96	0.00	0.0	2.409	0.061	13	4	1	1
PL.29660	PL.29482	B	1/0 AL URD	7.44Y	124.0	0.00	1.05	17.91	11	128	38	96	0.00	0.0	2.048	0.005	0	0	0	19
PD.4083	PL.29660	B	12T	7.44Y	124.0	0.00	1.05	17.91	0	128	38	96	0.00	0.0	2.048	0.005	0	0	0	19
PL.29386	PD.4083	B	1/0 AL URD	7.43Y	123.9	0.05	1.09	17.91	11	128	38	96	0.05	0.0	2.137	0.090	15	4	3	19
PL.29565	PL.29386	B	1/0 AL URD	7.43Y	123.9	0.03	1.12	15.85	9	113	34	96	0.02	0.0	2.198	0.060	14	4	2	16
PL.29566	PL.29565	B	1/0 AL URD	7.43Y	123.9	0.01	1.14	13.85	8	99	29	96	0.01	0.0	2.230	0.032	2	0	1	14
PL.29557	PL.29566	B	1/0 AL URD	7.43Y	123.9	0.01	1.14	13.62	8	97	29	96	0.01	0.0	2.248	0.019	4	1	1	13
PL.29558	PL.29557	B	1/0 AL URD	7.43Y	123.8	0.01	1.15	13.07	8	93	28	96	0.01	0.0	2.267	0.019	14	4	3	12
PL.29559	PL.29558	B	1/0 AL URD	7.43Y	123.8	0.02	1.17	11.08	7	79	24	96	0.01	0.0	2.337	0.069	19	6	2	9
PL.29388	PL.29559	B	1/0 AL URD	7.43Y	123.8	0.03	1.21	8.46	5	60	18	96	0.01	0.0	2.481	0.145	18	5	2	7
PL.29563	PL.29388	B	1/0 AL URD	7.43Y	123.8	0.01	1.21	5.90	3	42	13	96	0.00	0.0	2.539	0.058	11	3	1	5
PL.29564	PL.29563	B	1/0 AL URD	7.43Y	123.8	0.00	1.22	4.28	3	30	9	96	0.00	0.0	2.578	0.039	3	1	1	4
PL.29561	PL.29564	B	1/0 AL URD	7.43Y	123.8	0.00	1.22	2.94	2	21	6	96	0.00	0.0	2.602	0.024	21	6	2	2
PL.29562	PL.29561	B	1/0 AL URD	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	2.669	0.067	0	0	0	0
PL.29560	PL.29562	B	1/0 AL URD	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	2.711	0.043	0	0	0	0
PL.28379	PL.29564	B	1/0 AL URD	7.43Y	123.8	0.00	1.22	0.92	1	7	2	96	0.00	0.0	2.614	0.036	7	2	1	1
PL.28982	PL.29301	C	#4 ACSR	7.45Y	124.1	0.00	0.91	3.86	3	28	8	96	0.00	0.0	1.784	0.005	0	0	0	5
PD.4043	PL.28982	C	T	7.45Y	124.1	0.00	0.91	3.86	0	28	8	96	0.00	0.0	1.784	0.005	0	0	0	5
PL.28983	PD.4043	C	#4 ACSR	7.45Y	124.1	0.00	0.91	3.86	3	28	8	96	0.00	0.0	1.831	0.047	28	8	5	5
PL.29217	PL.29214	C	6 A (CWC)	7.45Y	124.1	0.00	0.86	6.12	4	44	13	96	0.00	0.0	1.646	0.005	0	0	0	10
PD.4044	PL.29217	C	20T	7.45Y	124.1	0.00	0.86	6.12	0	44	13	96	0.00	0.0	1.646	0.005	0	0	0	10
PL.29216	PD.4044	C	#4 ACSR	7.45Y	124.1	0.00	0.86	1.92	1	14	4	96	0.00	0.0	1.668	0.022	14	4	6	6
PL.29302	PD.4044	C	6 A (CWC)	7.45Y	124.1	0.01	0.87	4.20	3	30	9	96	0.00	0.0	1.684	0.039	0	0	0	4
PL.29218	PL.29302	C	#4 ACSR	7.45Y	124.1	0.01	0.88	2.96	2	21	6	96	0.00	0.0	1.760	0.075	0	0	0	2
PL.29354	PL.29218	C	#4 ACSR	7.45Y	124.1	0.01	0.89	2.96	2	21	6	96	0.00	0.0	1.860	0.100	0	0	0	2
PL.29355	PL.29354	C	#4 ACSR	7.45Y	124.1	0.00	0.89	2.96	2	21	6	96	0.00	0.0	1.916	0.056	15	5	1	2
PL.29221	PL.29355	C	#4 ACSR	7.45Y	124.1	0.00	0.89	0.82	1	6	2	95	0.00	0.0	1.930	0.014	6	2	1	1
PL.29303	PL.29302	C	6 A (CWC)	7.45Y	124.1	0.00	0.87	1.25	1	9	3	95	0.00	0.0	1.731	0.047	9	3	1	2
PL.29220	PL.29303	C	6 A (CWC)	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	1.848	0.117	0	0	0	0
PL.29219	PL.29303	C	#2 ACSR	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	1.778	0.047	0	0	1	1

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Balanced Voltage Drop Report
Source: Sand Gap

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.29621	PL.29300	A	#2 ACSR	7.46Y	124.3	0.00	0.69	6.10	3	44	13	96	0.00	0.0	1.237	0.005	0	0	0	7
PD.4036	PL.29621	A	20T	7.46Y	124.3	0.00	0.69	6.10	0	44	13	96	0.00	0.0	1.237	0.005	0	0	0	7
PL.29622	PD.4036	A	#2 ACSR	7.46Y	124.3	0.01	0.70	6.10	3	44	13	96	0.00	0.0	1.267	0.030	0	0	1	7
PL.29479	PL.29622	A	#1/0 ACSR	7.46Y	124.3	0.01	0.71	6.10	3	44	13	96	0.00	0.0	1.304	0.036	0	0	0	6
PL.29480	PL.29479	A	#1/0 ACSR	7.46Y	124.3	0.01	0.71	6.10	3	44	13	96	0.00	0.0	1.339	0.035	0	0	0	6
PL.29477	PL.29480	A	#1/0 ACSR	7.46Y	124.3	0.00	0.71	4.72	2	34	10	96	0.00	0.0	1.370	0.031	10	3	1	4
PL.29478	PL.29477	A	#1/0 ACSR	7.46Y	124.3	0.00	0.72	3.27	1	23	7	96	0.00	0.0	1.411	0.042	0	0	0	3
PL.29213	PL.29478	A	#2 ACSR	7.46Y	124.3	0.00	0.72	1.37	1	10	3	96	0.00	0.0	1.568	0.157	10	3	2	2
PL.29326	PL.29478	A	#1/0 ACSR	7.46Y	124.3	0.00	0.72	1.89	1	14	4	96	0.00	0.0	1.436	0.025	14	4	1	1
PL.29212	PL.29480	A	#2 ACSR	7.46Y	124.3	0.00	0.71	1.38	1	10	3	96	0.00	0.0	1.356	0.017	10	3	2	2
CP.44	PL.29679	ABC	Cap (300)	7.46Y	124.4	0.00	0.61	0.00	0	0	0	100	0.00	0.0	1.052	0.017	0	0	0	0
PL.29199	PL.29201	ABC	#1/0 ACSR	7.47Y	124.5	0.00	0.55	10.32	4	212	93	92	0.00	0.0	0.908	0.004	0	0	0	13
PD.4084	PL.29199	ABC	30T	7.47Y	124.5	0.00	0.55	10.32	0	212	93	92	0.00	0.0	0.908	0.004	0	0	0	13
PL.29295	PD.4084	ABC	#1/0 ACSR	7.47Y	124.4	0.00	0.55	9.77	4	200	90	91	0.00	0.0	0.920	0.012	0	0	0	11
PL.29204	PL.29295	ABC	#4 ACSR	7.47Y	124.4	0.03	0.58	9.31	7	190	87	91	0.04	0.0	0.998	0.077	16	6	4	10
PL.28998	PL.29204	C	#2 ACSR	7.47Y	124.4	0.00	0.58	2.51	1	18	5	96	0.00	0.0	1.002	0.005	0	0	0	5
PD.4053	PL.28998	C	40T	7.47Y	124.4	0.00	0.58	2.51	0	18	5	96	0.00	0.0	1.002	0.005	0	0	0	5
PL.28999	PD.4053	C	#2 ACSR	7.47Y	124.4	0.00	0.58	2.51	1	18	5	96	0.00	0.0	1.065	0.063	18	5	5	5
PL.29205	PL.29204	ABC	#4 ACSR	7.46Y	124.4	0.01	0.59	7.75	6	156	76	90	0.01	0.0	1.053	0.056	156	76	1	1
PL.29202	PL.29295	C	#1/0 ACSR	7.47Y	124.4	0.00	0.55	1.38	1	10	3	96	0.00	0.0	0.961	0.041	10	3	1	1
PL.29200	PD.4084	B	#1/0 ACSR	7.47Y	124.5	0.00	0.55	1.67	1	12	4	95	0.00	0.0	0.942	0.034	12	4	2	2
PL.29000	PL.29294	C	#1/0 ACSR	7.47Y	124.5	0.00	0.49	1.60	1	11	3	96	0.00	0.0	0.790	0.005	0	0	0	2
PD.4054	PL.29000	C	T	7.47Y	124.5	0.00	0.49	1.60	0	11	3	96	0.00	0.0	0.790	0.005	0	0	0	2
PL.29001	PD.4054	C	#1/0 ACSR	7.47Y	124.5	0.00	0.49	1.60	1	11	3	96	0.00	0.0	0.836	0.046	11	3	2	2
PL.29153	PL.29293	ABC	#1/0 ACSR	7.47Y	124.5	0.00	0.46	0.16	0	4	1	97	0.00	0.0	0.773	0.025	4	1	2	2
PL.29010	PL.29292	A	#2 ACSR	7.48Y	124.6	0.00	0.41	0.02	0	0	0	100	0.00	0.0	0.650	0.005	0	0	0	1
PD.4059	PL.29010	A	65T	7.48Y	124.6	0.00	0.41	0.02	0	0	0	100	0.00	0.0	0.650	0.005	0	0	0	1
PL.29011	PD.4059	A	#2 ACSR	7.48Y	124.6	0.00	0.41	0.02	0	0	0	100	0.00	0.0	0.722	0.072	0	0	1	1
PL.29139	PL.29380	B	#2 ACSR	7.49Y	124.8	0.01	0.22	6.13	4	44	13	96	0.00	0.0	0.422	0.039	4	1	5	14
PL.29141	PL.29139	B	6 A (CWC)	7.49Y	124.8	0.00	0.23	5.53	4	40	12	96	0.00	0.0	0.426	0.004	0	0	0	9
PD.4063	PL.29141	B	65T	7.49Y	124.8	0.00	0.23	5.53	0	40	12	96	0.00	0.0	0.426	0.004	0	0	0	9

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: Sand Gap

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.29534	PD.4063	B	6 A (CWC)	7.49Y	124.8	0.01	0.23	1.77	1	13	4	96	0.00	0.0	0.518	0.092	2	1	1	5
PL.29535	PL.29534	B	6 A (CWC)	7.49Y	124.8	0.01	0.24	1.51	1	11	3	96	0.00	0.0	0.656	0.138	0	0	0	4
PL.29536	PL.29535	B	6 A (CWC)	7.49Y	124.8	0.00	0.25	1.51	1	11	3	96	0.00	0.0	0.742	0.087	5	1	2	4
PL.29537	PL.29536	B	6 A (CWC)	7.49Y	124.8	0.00	0.25	0.87	1	6	2	95	0.00	0.0	0.838	0.096	6	2	2	2
PL.29142	PL.29537	B	#2 ACSR	7.49Y	124.8	0.00	0.25	0.00	0	0	0	100	0.00	0.0	0.935	0.097	0	0	0	0
PL.29140	PD.4063	B	#1/0 ACSR	7.49Y	124.8	0.00	0.23	3.76	2	27	8	96	0.00	0.0	0.456	0.030	27	8	4	4
PL.26950	Sand Gap	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	24.55	5	529	159	96	0.00	0.0	0.006	0.006	0	0	0	115
PL.33037	PL.26950	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	24.55	5	529	159	96	0.00	0.0	0.008	0.003	0	0	0	115
---------- Feeder No. 1 (Lodge Hall F1) Beginning with Device PD.5674 ----------																				
PD.5674	PL.33037	ABC	400VWE	7.50Y	125.0	0.00	0.00	24.55	0	529	159	96	0.00	0.0	0.008	0.003	0	0	0	115
PL.26951	PD.5674	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	24.55	5	529	159	96	0.00	0.0	0.014	0.006	0	0	0	115
PL.26164	PL.26951	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	24.55	5	529	159	96	0.00	0.0	0.066	0.051	0	0	1	115
PL.26202	PL.26164	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	24.55	5	529	159	96	0.00	0.0	0.096	0.030	11	3	1	114
PL.26203	PL.26202	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	24.03	5	518	155	96	0.00	0.0	0.123	0.027	0	0	0	113
PL.26148	PL.26203	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	24.03	5	518	155	96	0.00	0.0	0.138	0.016	17	5	6	113
PL.26165	PL.26148	ABC	#1/0 ACSR	7.50Y	125.0	0.03	0.04	23.26	10	501	150	96	0.09	0.0	0.208	0.070	47	14	7	107
PL.26173	PL.26165	ABC	#1/0 ACSR	7.50Y	124.9	0.01	0.05	21.09	9	454	136	96	0.04	0.0	0.244	0.035	9	3	3	100
PL.26174	PL.26173	ABC	#1/0 ACSR	7.50Y	124.9	0.02	0.07	20.69	9	446	134	96	0.06	0.0	0.294	0.051	18	5	4	97
PL.26159	PL.26174	ABC	#1/0 ACSR	7.50Y	124.9	0.01	0.08	19.21	8	414	124	96	0.03	0.0	0.321	0.027	0	0	0	90
PL.25716	PL.26159	ABC	#1/0 ACSR	7.49Y	124.9	0.02	0.10	19.21	8	414	124	96	0.04	0.0	0.367	0.047	9	3	2	90
PL.25717	PL.25716	ABC	#1/0 ACSR	7.49Y	124.9	0.03	0.12	18.34	8	395	119	96	0.08	0.0	0.452	0.084	0	0	0	87
PL.26160	PL.25717	ABC	#1/0 ACSR	7.49Y	124.9	0.02	0.15	18.34	8	395	118	96	0.06	0.0	0.516	0.064	10	3	1	87
PL.26161	PL.26160	ABC	#1/0 ACSR	7.49Y	124.8	0.02	0.16	16.92	7	364	109	96	0.04	0.0	0.570	0.054	0	0	0	81
PL.26150	PL.26161	ABC	#1/0 ACSR	7.49Y	124.8	0.01	0.17	15.41	7	332	100	96	0.02	0.0	0.609	0.039	0	0	0	76
PL.25724	PL.26150	B	#1/0 ACSR	7.49Y	124.8	0.00	0.17	0.91	0	7	2	96	0.00	0.0	0.645	0.036	7	2	2	2
PL.26151	PL.26150	ABC	#1/0 ACSR	7.49Y	124.8	0.02	0.19	15.11	7	325	98	96	0.04	0.0	0.679	0.070	0	0	0	74
PL.26152	PL.26151	ABC	#1/0 ACSR	7.49Y	124.8	0.01	0.20	13.98	6	301	90	96	0.01	0.0	0.704	0.025	13	4	1	69
PL.26133	PL.26152	ABC	#1/0 ACSR	7.49Y	124.8	0.01	0.21	13.36	6	287	86	96	0.02	0.0	0.756	0.052	0	0	0	68
PL.26212	PL.26133	C	#2 ACSR	7.49Y	124.8	0.00	0.21	0.01	0	0	0	100	0.00	0.0	0.760	0.005	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: Sand Gap

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.3639	PL.26212	C	65T	7.49Y	124.8	0.00	0.21	0.01	0	0	0	100	0.00	0.0	0.760	0.005	0	0	0	1
PL.26213	PD.3639	C	#2 ACSR	7.49Y	124.8	0.00	0.21	0.01	0	0	0	100	0.00	0.0	0.771	0.011	0	0	0	1
PL.26134	PL.26213	C	#4 ACSR	7.49Y	124.8	0.00	0.21	0.01	0	0	0	100	0.00	0.0	0.792	0.021	0	0	1	1
PL.26168	PL.26133	ABC	#1/0 ACSR	7.49Y	124.8	0.02	0.23	13.35	6	287	86	96	0.03	0.0	0.818	0.063	6	2	3	67
PL.26169	PL.26168	ABC	#1/0 ACSR	7.49Y	124.8	0.02	0.24	13.07	6	281	84	96	0.03	0.0	0.890	0.072	0	0	0	64
PL.26172	PL.26169	C	#4 ACSR	7.48Y	124.7	0.01	0.26	16.16	12	116	35	96	0.01	0.0	0.906	0.015	3	1	1	20
PL.26216	PL.26172	C	#4 ACSR	7.48Y	124.7	0.00	0.26	15.78	12	113	34	96	0.00	0.0	0.910	0.005	0	0	0	19
PD.3641	PL.26216	C	65T	7.48Y	124.7	0.00	0.26	15.78	0	113	34	96	0.00	0.0	0.910	0.005	0	0	0	19
PL.26217	PD.3641	C	#4 ACSR	7.48Y	124.7	0.08	0.33	15.78	12	113	34	96	0.06	0.1	1.019	0.108	4	1	1	19
PL.26162	PL.26217	C	6 A (CWC)	7.48Y	124.6	0.06	0.40	11.93	9	85	26	96	0.04	0.0	1.152	0.134	22	6	4	14
PL.26137	PL.26162	C	#2 ACSR	7.48Y	124.6	0.00	0.40	1.68	1	12	4	95	0.00	0.0	1.175	0.023	12	4	1	1
PL.26163	PL.26162	C	6 A (CWC)	7.47Y	124.6	0.02	0.42	7.22	5	52	15	96	0.01	0.0	1.216	0.063	3	1	2	9
PL.26140	PL.26163	C	6 A (CWC)	7.47Y	124.6	0.02	0.44	2.79	2	20	6	96	0.00	0.0	1.358	0.143	0	0	0	3
PL.26199	PL.26140	C	#2 ACSR	7.47Y	124.6	0.00	0.44	2.79	2	20	6	96	0.00	0.0	1.381	0.023	6	2	1	3
PL.26200	PL.26199	C	#2 ACSR	7.47Y	124.6	0.00	0.44	1.98	1	14	4	96	0.00	0.0	1.416	0.035	0	0	0	2
PL.26156	PL.26200	C	#2 ACSR	7.47Y	124.5	0.01	0.45	1.98	1	14	4	96	0.00	0.0	1.598	0.182	0	0	0	2
PL.26135	PL.26156	C	#4 ACSR	7.47Y	124.5	0.01	0.46	1.98	2	14	4	96	0.00	0.0	1.694	0.096	6	2	1	2
PL.26197	PL.26135	C	#4 ACSR	7.47Y	124.5	0.01	0.47	1.12	1	8	2	97	0.00	0.0	1.827	0.134	0	0	0	1
PL.26198	PL.26197	C	#4 ACSR	7.47Y	124.5	0.00	0.47	1.12	1	8	2	97	0.00	0.0	1.859	0.031	8	2	1	1
PL.26139	PL.26163	C	6 A (CWC)	7.47Y	124.6	0.00	0.42	1.20	1	9	3	95	0.00	0.0	1.238	0.023	0	0	0	1
PL.26138	PL.26139	C	6 A (CWC)	7.47Y	124.6	0.00	0.42	1.20	1	9	3	95	0.00	0.0	1.271	0.033	9	3	1	1
PL.26142	PL.26163	C	6 A (CWC)	7.47Y	124.6	0.00	0.42	2.76	2	20	6	96	0.00	0.0	1.243	0.028	10	3	2	3
PL.26141	PL.26142	C	6 A (CWC)	7.47Y	124.6	0.01	0.43	1.35	1	10	3	96	0.00	0.0	1.359	0.116	0	0	0	1
PL.26155	PL.26141	C	6 A (CWC)	7.47Y	124.6	0.00	0.43	1.35	1	10	3	96	0.00	0.0	1.499	0.140	10	3	1	1
PL.26195	PL.26217	C	#4 ACSR	7.48Y	124.7	0.01	0.34	3.36	3	24	7	96	0.00	0.0	1.066	0.047	1	0	1	4
PL.26196	PL.26195	C	#4 ACSR	7.48Y	124.7	0.01	0.35	3.21	2	23	7	96	0.00	0.0	1.141	0.075	20	6	2	3
PL.26136	PL.26196	C	#1/0 ACSR	7.48Y	124.7	0.00	0.35	0.43	0	3	1	95	0.00	0.0	1.231	0.090	3	1	1	1
PL.26153	PL.26169	ABC	#1/0 ACSR	7.48Y	124.7	0.01	0.25	7.68	3	165	50	96	0.01	0.0	0.958	0.067	0	0	0	44
PL.26214	PL.26153	A	#4 ACSR	7.48Y	124.7	0.00	0.25	0.31	0	2	1	89	0.00	0.0	0.962	0.005	0	0	0	1
PD.3640	PL.26214	A	65T	7.48Y	124.7	0.00	0.25	0.31	0	2	1	89	0.00	0.0	0.962	0.005	0	0	0	1
PL.26215	PD.3640	A	#4 ACSR	7.48Y	124.7	0.00	0.25	0.31	0	2	1	89	0.00	0.0	1.016	0.054	2	1	1	1

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Balanced Voltage Drop Report
Source: Sand Gap

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.26154	PL.26153	ABC	#1/0 ACSR	7.48Y	124.7	0.01	0.26	7.58	3	163	49	96	0.01	0.0	1.016	0.058	3	1	1	43
PL.26143	PL.26154	B	#1/0 ACSR	7.48Y	124.7	0.02	0.28	22.34	10	160	48	96	0.02	0.0	1.056	0.041	0	0	0	42
PL.26220	PL.26143	B	#1/0 ACSR	7.48Y	124.7	0.00	0.28	22.34	10	160	48	96	0.00	0.0	1.059	0.003	0	0	0	42
PD.3643	PL.26220	B	35L	7.48Y	124.7	0.00	0.28	22.34	64	160	48	96	0.00	0.0	1.059	0.003	0	0	0	42
PL.26221	PD.3643	B	#1/0 ACSR	7.48Y	124.7	0.02	0.30	22.34	10	160	48	96	0.02	0.0	1.097	0.038	0	0	0	42
PL.26144	PL.26221	B	#1/0 ACSR	7.48Y	124.6	0.08	0.39	21.30	9	153	46	96	0.08	0.1	1.259	0.162	0	0	0	39
PL.26176	PL.26144	B	#1/0 ACSR	7.47Y	124.6	0.04	0.43	21.30	9	153	46	96	0.04	0.0	1.349	0.090	4	1	2	39
PL.26177	PL.26176	B	#1/0 ACSR	7.47Y	124.5	0.05	0.48	20.76	9	149	45	96	0.04	0.0	1.445	0.096	0	0	1	37
PL.26175	PL.26177	B	#1/0 ACSR	7.47Y	124.5	0.07	0.55	20.76	9	149	45	96	0.07	0.0	1.586	0.141	0	0	0	36
PL.26157	PL.26175	B	#1/0 ACSR	7.46Y	124.4	0.06	0.60	20.76	9	148	44	96	0.05	0.0	1.702	0.116	0	0	0	36
PL.26158	PL.26157	B	#1/0 ACSR	7.46Y	124.4	0.03	0.64	20.76	9	148	44	96	0.03	0.0	1.776	0.074	11	3	3	36
PL.26182	PL.26158	B	#1/0 ACSR	7.46Y	124.3	0.02	0.66	12.62	5	90	27	96	0.01	0.0	1.856	0.080	18	6	5	18
PL.26183	PL.26182	B	#1/0 ACSR	7.46Y	124.3	0.01	0.66	10.04	4	72	21	96	0.00	0.0	1.887	0.030	13	4	2	13
PL.26184	PL.26183	B	#1/0 ACSR	7.46Y	124.3	0.01	0.68	8.20	4	59	17	96	0.00	0.0	1.944	0.057	0	0	0	11
PL.26190	PL.26184	B	#4 ACSR	7.46Y	124.3	0.00	0.68	1.59	1	11	3	96	0.00	0.0	1.992	0.048	6	2	2	4
PL.26191	PL.26190	B	#4 ACSR	7.46Y	124.3	0.00	0.68	0.80	1	6	2	95	0.00	0.0	2.042	0.050	6	2	1	2
PL.26192	PL.26191	B	#4 ACSR	7.46Y	124.3	0.00	0.68	0.00	0	0	0	100	0.00	0.0	2.095	0.053	0	0	1	1
PL.26146	PL.26184	B	#4 ACSR	7.46Y	124.3	0.01	0.68	6.61	5	47	14	96	0.00	0.0	1.975	0.031	9	3	1	7
PL.26145	PL.26146	B	#4 ACSR	7.46Y	124.3	0.01	0.69	5.40	4	39	12	96	0.00	0.0	2.009	0.034	10	3	1	6
PL.26180	PL.26145	B	#4 ACSR	7.46Y	124.3	0.01	0.70	3.96	3	28	8	96	0.00	0.0	2.058	0.049	14	4	4	5
PL.26181	PL.26180	B	#4 ACSR	7.46Y	124.3	0.00	0.70	1.95	2	14	4	96	0.00	0.0	2.097	0.039	14	4	1	1
PL.26178	PL.26158	B	#4 ACSR	7.46Y	124.4	0.01	0.65	6.61	5	47	14	96	0.00	0.0	1.809	0.033	1	0	1	15
PL.26179	PL.26178	B	#4 ACSR	7.46Y	124.3	0.01	0.66	6.53	5	47	14	96	0.01	0.0	1.860	0.052	3	1	1	14
PL.26147	PL.26179	B	#4 ACSR	7.46Y	124.3	0.02	0.68	6.15	5	44	13	96	0.01	0.0	1.948	0.088	15	5	3	13
PL.26185	PL.26147	B	#4 ACSR	7.46Y	124.3	0.01	0.69	3.99	3	29	9	96	0.00	0.0	2.010	0.062	14	4	5	10
PL.26186	PL.26185	B	#4 ACSR	7.46Y	124.3	0.00	0.69	2.03	2	15	4	97	0.00	0.0	2.064	0.054	1	0	1	5
PL.26188	PL.26186	B	#4 ACSR	7.46Y	124.3	0.00	0.70	1.84	1	13	4	96	0.00	0.0	2.098	0.035	0	0	0	4
PL.26189	PL.26188	B	#4 ACSR	7.46Y	124.3	0.00	0.70	1.84	1	13	4	96	0.00	0.0	2.131	0.032	2	1	1	4
PL.26187	PL.26189	B	#4 ACSR	7.46Y	124.3	0.00	0.70	1.60	1	11	3	96	0.00	0.0	2.142	0.012	0	0	0	3
PL.26193	PL.26187	B	#4 ACSR	7.46Y	124.3	0.00	0.70	1.60	1	11	3	96	0.00	0.0	2.202	0.059	2	1	2	3
PL.26194	PL.26193	B	#4 ACSR	7.46Y	124.3	0.00	0.71	1.36	1	10	3	96	0.00	0.0	2.297	0.096	10	3	1	1

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Balanced Voltage Drop Report
Source: Sand Gap

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.26170	PL.26221	B	#1/0 ACSR	7.48Y	124.7	0.00	0.30	1.04	0	7	2	96	0.00	0.0	1.112	0.014	6	2	2	3
PL.26171	PL.26170	B	#1/0 ACSR	7.48Y	124.7	0.00	0.30	0.14	0	1	0	100	0.00	0.0	1.149	0.037	1	0	1	1
PL.26210	PL.26151	C	#2 ACSR	7.49Y	124.8	0.00	0.19	3.38	2	24	7	96	0.00	0.0	0.683	0.005	0	0	0	5
PD.3638	PL.26210	C	65T	7.49Y	124.8	0.00	0.19	3.38	0	24	7	96	0.00	0.0	0.683	0.005	0	0	0	5
PL.26211	PD.3638	C	#2 ACSR	7.49Y	124.8	0.00	0.20	3.38	2	24	7	96	0.00	0.0	0.746	0.063	13	4	2	5
PL.26167	PL.26211	C	#2 ACSR	7.49Y	124.8	0.00	0.20	1.54	1	11	3	96	0.00	0.0	0.774	0.027	1	0	1	3
PL.26166	PL.26167	C	#2 ACSR	7.49Y	124.8	0.00	0.20	1.47	1	11	3	96	0.00	0.0	0.800	0.026	0	0	0	2
PL.26132	PL.26166	C	#1/0 ACSR	7.49Y	124.8	0.00	0.20	1.00	0	7	2	96	0.00	0.0	0.896	0.096	7	2	1	1
PL.26131	PL.26166	C	#2 ACSR	7.49Y	124.8	0.00	0.20	0.47	0	3	1	95	0.00	0.0	0.844	0.044	3	1	1	1
PL.25720	PL.26161	A	#1/0 ACSR	7.49Y	124.8	0.00	0.16	4.54	2	33	10	96	0.00	0.0	0.578	0.008	8	2	2	5
PL.26208	PL.25720	A	6 A (CWC)	7.49Y	124.8	0.00	0.16	3.43	2	25	7	96	0.00	0.0	0.583	0.005	0	0	0	3
PD.3637	PL.26208	A	65T	7.49Y	124.8	0.00	0.16	3.43	0	25	7	96	0.00	0.0	0.583	0.005	0	0	0	3
PL.26209	PD.3637	A	6 A (CWC)	7.49Y	124.8	0.02	0.19	3.43	2	25	7	96	0.00	0.0	0.763	0.180	12	4	1	3
PL.25721	PL.26209	A	6 A (CWC)	7.49Y	124.8	0.00	0.19	0.63	0	5	1	98	0.00	0.0	0.829	0.066	5	1	1	1
PL.25722	PL.26209	A	#2 ACSR	7.49Y	124.8	0.00	0.19	1.13	1	8	2	97	0.00	0.0	0.895	0.132	0	0	0	1
PL.25723	PL.25722	A	#2 ACSR	7.49Y	124.8	0.00	0.19	1.13	1	8	2	97	0.00	0.0	0.925	0.030	8	2	1	1
PL.26218	PL.26160	A	#2 ACSR	7.49Y	124.9	0.00	0.15	2.90	2	21	6	96	0.00	0.0	0.521	0.005	0	0	0	5
PD.3642	PL.26218	A	65T	7.49Y	124.9	0.00	0.15	2.90	0	21	6	96	0.00	0.0	0.521	0.005	0	0	0	5
PL.26219	PD.3642	A	#2 ACSR	7.49Y	124.8	0.00	0.15	2.90	2	21	6	96	0.00	0.0	0.561	0.040	0	0	0	5
PL.25718	PL.26219	A	#4 ACSR	7.49Y	124.8	0.01	0.16	1.96	2	14	4	96	0.00	0.0	0.645	0.084	8	2	1	2
PL.25719	PL.25718	A	#2 ACSR	7.49Y	124.8	0.00	0.16	0.91	1	6	2	95	0.00	0.0	0.708	0.063	6	2	1	1
PL.26149	PL.26219	A	#2 ACSR	7.49Y	124.8	0.00	0.15	0.94	1	7	2	96	0.00	0.0	0.577	0.016	7	2	3	3
PL.26206	PL.25716	A	#1/0 ACSR	7.49Y	124.9	0.00	0.10	1.38	1	10	3	96	0.00	0.0	0.372	0.005	0	0	0	1
PD.3636	PL.26206	A	65T	7.49Y	124.9	0.00	0.10	1.38	0	10	3	96	0.00	0.0	0.372	0.005	0	0	0	1
PL.26207	PD.3636	A	#1/0 ACSR	7.49Y	124.9	0.00	0.10	1.38	1	10	3	96	0.00	0.0	0.417	0.045	10	3	1	1
PL.26204	PL.26174	A	#4 ACSR	7.50Y	124.9	0.00	0.07	1.91	1	14	4	96	0.00	0.0	0.299	0.005	0	0	0	3
PD.3635	PL.26204	A	65T	7.50Y	124.9	0.00	0.07	1.91	0	14	4	96	0.00	0.0	0.299	0.005	0	0	0	3
PL.26205	PD.3635	A	#4 ACSR	7.50Y	124.9	0.00	0.07	1.91	1	14	4	96	0.00	0.0	0.340	0.041	14	4	2	3
PL.26201	PL.26205	A	#4 ACSR	7.50Y	124.9	0.00	0.07	0.01	0	0	0	100	0.00	0.0	0.412	0.072	0	0	1	1
PL.31448	Sand Gap	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	156.10	30	3318	1152	94	0.02	0.0	0.006	0.006	0	0	0	782
PL.33038	PL.31448	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	156.10	30	3318	1151	94	0.01	0.0	0.010	0.004	0	0	0	782

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: Sand Gap

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
---------- Feeder No. 2 (CloverBottom F2) Beginning with Device PD.5675 ----------																				
PD.5675	PL.33038	ABC	400VWE	7.50Y	125.0	0.00	0.01	156.10	0	3318	1151	94	0.00	0.0	0.010	0.004	0	0	0	782
PL.31449	PD.5675	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	156.10	30	3318	1151	94	0.02	0.0	0.017	0.007	0	0	0	782
PL.30129	PL.31449	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	156.10	30	3318	1151	94	0.01	0.0	0.020	0.003	0	0	0	782
PL.30130	PL.30129	ABC	397 SPACER	7.49Y	124.9	0.08	0.09	156.10	30	3318	1151	94	0.46	0.0	0.163	0.143	0	0	0	782
PL.30131	PL.30130	ABC	397 SPACER	7.49Y	124.9	0.03	0.12	156.10	30	3318	1145	95	0.20	0.0	0.224	0.062	0	0	0	782
PL.30595	PL.30131	ABC	336 MCM AC	7.49Y	124.8	0.11	0.23	156.10	30	3317	1143	95	1.74	0.1	0.309	0.085	0	0	0	782
PL.30596	PL.30595	ABC	336 MCM AC	7.48Y	124.6	0.13	0.36	155.50	30	3303	1135	95	2.07	0.1	0.411	0.102	0	0	0	781
PL.30421	PL.30596	ABC	336 MCM AC	7.47Y	124.5	0.11	0.47	155.50	30	3300	1130	95	1.86	0.1	0.502	0.091	0	0	0	781
PL.30876	PL.30421	C	#4 ACSR	7.47Y	124.5	0.00	0.47	1.06	1	8	2	97	0.00	0.0	0.507	0.005	0	0	0	1
PD.4158	PL.30876	C	65T	7.47Y	124.5	0.00	0.47	1.06	0	8	2	97	0.00	0.0	0.507	0.005	0	0	0	1
PL.30877	PD.4158	C	#4 ACSR	7.47Y	124.5	0.00	0.47	1.06	1	8	2	97	0.00	0.0	0.558	0.051	8	2	1	1
PL.30592	PL.30421	ABC	336 MCM AC	7.47Y	124.5	0.08	0.55	155.14	30	3291	1124	95	1.25	0.0	0.564	0.062	0	0	0	780
PL.30593	PL.30592	ABC	336 MCM AC	7.46Y	124.3	0.11	0.65	155.02	30	3287	1120	95	1.78	0.1	0.652	0.088	7	2	1	779
PL.30635	PL.30593	ABC	336 MCM AC	7.46Y	124.3	0.07	0.73	154.70	30	3278	1114	95	1.21	0.0	0.712	0.060	15	4	4	778
PL.30636	PL.30635	ABC	336 MCM AC	7.45Y	124.2	0.09	0.81	153.99	30	3262	1106	95	1.42	0.0	0.784	0.071	15	4	2	774
PL.31024	PL.30636	C	#1/0 ACSR	7.45Y	124.2	0.00	0.81	1.98	1	14	4	96	0.00	0.0	0.789	0.005	0	0	0	6
PD.4238	PL.31024	C	65T	7.45Y	124.2	0.00	0.81	1.98	0	14	4	96	0.00	0.0	0.789	0.005	0	0	0	6
PL.31025	PD.4238	C	#1/0 ACSR	7.45Y	124.2	0.00	0.82	1.98	1	14	4	96	0.00	0.0	0.798	0.010	14	4	5	6
PL.30632	PL.31025	C	#1/0 ACSR	7.45Y	124.2	0.00	0.82	0.00	0	0	0	100	0.00	0.0	0.815	0.017	0	0	1	1
PL.30880	PL.30636	A	#1/0 ACSR	7.45Y	124.2	0.00	0.82	3.32	1	24	7	96	0.00	0.0	0.789	0.005	0	0	0	4
PD.4160	PL.30880	A	65T	7.45Y	124.2	0.00	0.82	3.32	0	24	7	96	0.00	0.0	0.789	0.005	0	0	0	4
PL.30881	PD.4160	A	#1/0 ACSR	7.45Y	124.2	0.00	0.82	3.32	1	24	7	96	0.00	0.0	0.848	0.059	24	7	4	4
PL.30325	PL.30636	ABC	336 MCM AC	7.45Y	124.1	0.06	0.87	151.54	29	3208	1087	95	0.92	0.0	0.832	0.048	0	0	0	762
PL.30633	PL.30325	ABC	336 MCM AC	7.44Y	124.0	0.17	1.04	150.47	29	3184	1078	95	2.72	0.1	0.975	0.143	2	1	2	758
PL.30634	PL.30633	ABC	336 MCM AC	7.43Y	123.8	0.20	1.25	150.39	29	3180	1072	95	3.26	0.1	1.146	0.171	0	0	0	756
PL.30958	PL.30634	A	#1/0 ACSR	7.43Y	123.8	0.00	1.25	0.00	0	0	0	100	0.00	0.0	1.150	0.005	0	0	0	0
PD.4199	PL.30958	A	80T	7.43Y	123.8	0.00	1.25	0.00	0	0	0	100	0.00	0.0	1.150	0.005	0	0	0	0
PL.30959	PD.4199	A	#1/0 ACSR	7.43Y	123.8	0.00	1.25	0.00	0	0	0	100	0.00	0.0	1.195	0.045	0	0	0	0

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Balanced Voltage Drop Report
Source: Sand Gap

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.30739	PL.30634	ABC	336 MCM AC	7.42Y	123.7	0.07	1.32	150.39	29	3177	1064	95	1.12	0.0	1.205	0.059	1	0	1	756
PL.30740	PL.30739	ABC	336 MCM AC	7.42Y	123.6	0.04	1.36	150.33	29	3174	1061	95	0.64	0.0	1.239	0.034	0	0	0	755
PL.30336	PL.30740	ABC	336 MCM AC	7.41Y	123.5	0.17	1.53	136.42	26	2877	970	95	2.46	0.1	1.396	0.157	0	0	0	687
PL.30591	PL.30336	ABC	336 MCM AC	7.40Y	123.4	0.08	1.61	134.33	26	2830	951	95	1.15	0.0	1.472	0.076	10	3	2	681
PL.30683	PL.30591	ABC	336 MCM AC	7.40Y	123.3	0.07	1.67	127.27	25	2678	904	95	0.91	0.0	1.538	0.067	0	0	1	648
PL.30477	PL.30683	ABC	336 MCM AC	7.40Y	123.3	0.06	1.73	127.27	25	2678	902	95	0.82	0.0	1.598	0.060	0	0	0	647
PD.4262-A	PL.30477	ABC	Closed	7.40Y	123.3	0.00	1.73	127.27	0	2677	900	95	0.00	0.0	1.598	0.060	0	0	0	647
PD.4262-B	PD.4262-A	ABC	Closed	7.40Y	123.3	0.00	1.73	127.27	0	2677	900	95	0.00	0.0	1.598	0.060	0	0	0	647
PL.30478	PD.4262-B	ABC	336 MCM AC	7.39Y	123.2	0.03	1.77	127.27	25	2677	900	95	0.45	0.0	1.631	0.033	0	0	0	647
PL.30120	PL.30478	ABC	#2 ACSR	7.39Y	123.2	0.00	1.77	1.60	1	33	12	94	0.00	0.0	1.636	0.005	0	0	0	4
PD.4259	PL.30120	ABC	65T	7.39Y	123.2	0.00	1.77	1.60	0	33	12	94	0.00	0.0	1.636	0.005	0	0	0	4
PL.30343	PD.4259	ABC	#2 ACSR	7.39Y	123.2	0.00	1.77	0.70	0	14	6	92	0.00	0.0	1.656	0.020	0	0	0	2
PL.30898	PL.30343	B	#1/0 ACSR	7.39Y	123.2	0.00	1.77	0.46	0	3	1	95	0.00	0.0	1.661	0.005	0	0	0	1
PD.4170	PL.30898	B	40T	7.39Y	123.2	0.00	1.77	0.46	0	3	1	95	0.00	0.0	1.661	0.005	0	0	0	1
PL.30899	PD.4170	B	#1/0 ACSR	7.39Y	123.2	0.00	1.77	0.46	0	3	1	95	0.00	0.0	1.713	0.052	3	1	1	1
PL.30344	PL.30343	ABC	#2 ACSR	7.39Y	123.2	0.00	1.77	0.55	0	11	5	91	0.00	0.0	1.675	0.018	11	5	1	1
PL.30121	PD.4259	ABC	#2 ACSR	7.39Y	123.2	0.00	1.77	0.90	1	19	6	95	0.00	0.0	1.664	0.028	19	6	2	2
PL.30345	PL.30478	ABC	336 MCM AC	7.39Y	123.2	0.08	1.85	125.67	24	2643	887	95	1.05	0.0	1.711	0.079	12	4	2	643
PL.30342	PL.30345	ABC	336 MCM AC	7.38Y	123.0	0.17	2.02	120.99	23	2542	854	95	2.19	0.1	1.888	0.178	0	0	0	623
PL.31030	PL.30342	C	#4 ACSR	7.38Y	123.0	0.00	2.02	1.06	1	8	2	97	0.00	0.0	1.893	0.005	0	0	0	1
PD.4241	PL.31030	C	65T	7.38Y	123.0	0.00	2.02	1.06	0	8	2	97	0.00	0.0	1.893	0.005	0	0	0	1
PL.31031	PD.4241	C	#4 ACSR	7.38Y	123.0	0.00	2.02	1.06	1	8	2	97	0.00	0.0	2.001	0.108	8	2	1	1
PL.30167	PL.31031	C	#1/0 ACSR	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	2.043	0.042	0	0	0	0
PL.30310	PL.30167	C	#1/0 ACSR	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	2.061	0.018	0	0	0	0
PL.30309	PL.30310	C	#1/0 ACSR	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	2.138	0.077	0	0	0	0
PL.30910	PL.30342	A	#4 ACSR	7.38Y	123.0	0.00	2.02	1.03	1	7	2	96	0.00	0.0	1.893	0.005	0	0	0	1
PD.4176	PL.30910	A	65T	7.38Y	123.0	0.00	2.02	1.03	0	7	2	96	0.00	0.0	1.893	0.005	0	0	0	1
PL.30911	PD.4176	A	#4 ACSR	7.38Y	123.0	0.00	2.02	1.03	1	7	2	96	0.00	0.0	1.968	0.075	7	2	1	1
PL.30346	PL.30342	ABC	336 MCM AC	7.38Y	122.9	0.05	2.07	120.29	23	2525	845	95	0.66	0.0	1.943	0.054	0	0	0	621
PL.30693	PL.30346	ABC	336 MCM AC	7.37Y	122.9	0.04	2.11	120.29	23	2525	843	95	0.54	0.0	1.987	0.045	0	0	0	621
PL.30694	PL.30693	ABC	336 MCM AC	7.37Y	122.9	0.03	2.14	120.29	23	2524	842	95	0.34	0.0	2.015	0.028	2	1	3	621

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Balanced Voltage Drop Report
Source: Sand Gap

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.30695	PL.30694	ABC	336 MCM AC	7.36Y	122.7	0.12	2.25	120.20	23	2522	841	95	1.49	0.1	2.137	0.122	1	0	1	618
PL.30914	PL.30695	A	#1/0 ACSR	7.36Y	122.7	0.00	2.25	0.77	0	5	2	93	0.00	0.0	2.142	0.005	0	0	0	1
PD.4178	PL.30914	A	65T	7.36Y	122.7	0.00	2.25	0.77	0	5	2	93	0.00	0.0	2.142	0.005	0	0	0	1
PL.30915	PD.4178	A	#1/0 ACSR	7.36Y	122.7	0.00	2.25	0.77	0	5	2	93	0.00	0.0	2.168	0.026	5	2	1	1
PL.30347	PL.30695	ABC	336 MCM AC	7.36Y	122.6	0.15	2.40	119.91	23	2514	835	95	1.89	0.1	2.294	0.157	12	4	2	616
PL.30916	PL.30347	C	#2 ACSR	7.36Y	122.6	0.00	2.40	0.00	0	0	0	100	0.00	0.0	2.298	0.004	0	0	0	0
PD.4179	PL.30916	C	65T	7.36Y	122.6	0.00	2.40	0.00	0	0	0	100	0.00	0.0	2.298	0.004	0	0	0	0
PL.30917	PD.4179	C	#2 ACSR	7.36Y	122.6	0.00	2.40	0.00	0	0	0	100	0.00	0.0	2.334	0.035	0	0	0	0
PL.30696	PL.30917	C	#2 ACSR	7.36Y	122.6	0.00	2.40	0.00	0	0	0	100	0.00	0.0	2.345	0.011	0	0	0	0
PL.30348	PL.30347	ABC	336 MCM AC	7.35Y	122.5	0.06	2.46	119.33	23	2500	827	95	0.76	0.0	2.358	0.063	0	0	0	614
PL.30349	PL.30348	ABC	336 MCM AC	7.35Y	122.5	0.09	2.55	118.95	23	2491	823	95	1.09	0.0	2.449	0.092	2	1	1	610
PL.30697	PL.30349	ABC	336 MCM AC	7.34Y	122.4	0.06	2.61	116.50	22	2440	800	95	0.81	0.0	2.520	0.071	7	2	1	607
PL.30948	PL.30697	ABC	336 MCM AC	7.34Y	122.3	0.07	2.68	116.18	22	2432	796	95	0.82	0.0	2.592	0.072	0	0	0	606
PL.30949	PL.30948	ABC	336 MCM AC	7.34Y	122.3	0.00	2.68	116.18	22	2432	795	95	0.05	0.0	2.596	0.004	0	0	0	606
PL.30126	PL.30949	ABC	336 MCM AC	7.34Y	122.3	0.03	2.71	115.10	22	2409	788	95	0.40	0.0	2.632	0.036	0	0	0	601
PL.30950	PL.30126	A	#2 ACSR	7.34Y	122.3	0.00	2.71	7.84	4	55	16	96	0.00	0.0	2.637	0.005	0	0	0	14
PD.4195	PL.30950	A	65T	7.34Y	122.3	0.00	2.71	7.84	0	55	16	96	0.00	0.0	2.637	0.005	0	0	0	14
PL.30951	PD.4195	A	#2 ACSR	7.34Y	122.3	0.00	2.72	7.84	4	55	16	96	0.00	0.0	2.655	0.018	2	1	1	14
PL.30352	PL.30951	A	#2 ACSR	7.34Y	122.3	0.01	2.73	6.54	4	46	14	96	0.00	0.0	2.711	0.056	15	5	2	11
PL.30168	PL.30352	A	#4 ACSR	7.34Y	122.3	0.00	2.73	0.33	0	2	1	89	0.00	0.0	2.768	0.058	2	1	1	1
PL.30727	PL.30352	A	#2 ACSR	7.34Y	122.3	0.01	2.73	4.03	2	28	8	96	0.00	0.0	2.771	0.060	9	3	3	8
PL.30728	PL.30727	A	#2 ACSR	7.34Y	122.3	0.01	2.74	2.69	2	19	6	95	0.00	0.0	2.863	0.092	7	2	2	5
PL.30725	PL.30728	A	#2 ACSR	7.34Y	122.3	0.00	2.74	1.75	1	12	4	95	0.00	0.0	2.917	0.055	0	0	0	3
PL.30726	PL.30725	A	#2 ACSR	7.34Y	122.3	0.00	2.75	1.75	1	12	4	95	0.00	0.0	2.968	0.051	3	1	1	3
PL.30128	PL.30726	A	#4 ACSR	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	3.053	0.085	0	0	0	0
PL.30734	PL.30726	A	#2 ACSR	7.34Y	122.3	0.00	2.75	1.35	1	10	3	96	0.00	0.0	3.022	0.054	0	0	0	2
PL.30735	PL.30734	A	#2 ACSR	7.34Y	122.3	0.00	2.75	1.35	1	10	3	96	0.00	0.0	3.044	0.023	0	0	1	2
PL.30736	PL.30735	A	#2 ACSR	7.34Y	122.3	0.00	2.75	1.31	1	9	3	95	0.00	0.0	3.073	0.029	9	3	1	1
PL.30127	PL.30951	A	#1/0 ACSR	7.34Y	122.3	0.00	2.72	1.02	0	7	2	96	0.00	0.0	2.687	0.032	7	2	2	2
PL.30351	PL.30126	ABC	336 MCM AC	7.33Y	122.2	0.05	2.76	112.49	22	2353	770	95	0.57	0.0	2.686	0.054	0	0	0	587
PL.30354	PL.30351	ABC	336 MCM AC	7.33Y	122.2	0.09	2.85	111.65	22	2335	764	95	1.08	0.0	2.789	0.103	13	4	3	584

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Balanced Voltage Drop Report
Source: Sand Gap

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.30355	PL.30354	ABC	336 MCM AC	7.33Y	122.1	0.06	2.91	109.90	21	2297	750	95	0.71	0.0	2.858	0.070	0	0	0	578
PL.30356	PL.30355	ABC	336 MCM AC	7.32Y	122.0	0.10	3.01	108.77	21	2272	741	95	1.11	0.0	2.970	0.112	7	2	1	574
PL.30722	PL.30356	ABC	336 MCM AC	7.32Y	121.9	0.06	3.07	108.32	21	2262	736	95	0.71	0.0	3.042	0.072	3	1	4	571
PL.30723	PL.30722	ABC	336 MCM AC	7.31Y	121.9	0.07	3.13	108.17	21	2258	733	95	0.78	0.0	3.121	0.079	0	0	0	567
PL.30360	PL.30723	ABC	336 MCM AC	7.31Y	121.8	0.05	3.18	105.22	20	2195	713	95	0.51	0.0	3.176	0.055	0	0	0	550
PL.30479	PL.30360	ABC	336 MCM AC	7.31Y	121.8	0.07	3.25	104.35	20	2176	706	95	0.80	0.0	3.264	0.088	0	0	0	546
PD.4263-A	PL.30479	ABC	Closed	7.31Y	121.8	0.00	3.25	104.35	0	2176	705	95	0.00	0.0	3.264	0.088	0	0	0	546
PD.4263-B	PD.4263-A	ABC	Closed	7.31Y	121.8	0.00	3.25	104.35	0	2176	705	95	0.00	0.0	3.264	0.088	0	0	0	546
PL.30480	PD.4263-B	ABC	336 MCM AC	7.30Y	121.7	0.07	3.32	104.35	20	2176	705	95	0.77	0.0	3.348	0.084	0	0	0	546
PL.30954	PL.30480	A	#1/0 ACSR	7.30Y	121.7	0.00	3.32	2.99	1	21	6	96	0.00	0.0	3.353	0.005	0	0	0	3
PD.4197	PL.30954	A	65T	7.30Y	121.7	0.00	3.32	2.99	0	21	6	96	0.00	0.0	3.353	0.005	0	0	0	3
PL.30955	PD.4197	A	#1/0 ACSR	7.30Y	121.7	0.00	3.32	2.99	1	21	6	96	0.00	0.0	3.358	0.006	14	4	2	3
PL.30732	PL.30955	A	#4 ACSR	7.30Y	121.7	0.00	3.32	1.02	1	7	2	96	0.00	0.0	3.423	0.065	0	0	0	1
PL.30733	PL.30732	A	#4 ACSR	7.30Y	121.7	0.00	3.32	1.02	1	7	2	96	0.00	0.0	3.472	0.049	7	2	1	1
PL.30359	PL.30480	ABC	336 MCM AC	7.30Y	121.6	0.03	3.35	103.36	20	2154	696	95	0.35	0.0	3.387	0.039	4	1	1	543
PL.30730	PL.30359	ABC	336 MCM AC	7.30Y	121.6	0.05	3.40	102.57	20	2137	691	95	0.57	0.0	3.452	0.064	11	3	8	539
PL.30731	PL.30730	ABC	336 MCM AC	7.29Y	121.5	0.06	3.46	102.02	20	2125	686	95	0.62	0.0	3.522	0.070	10	3	2	531
PL.30729	PL.30731	ABC	336 MCM AC	7.29Y	121.4	0.12	3.57	101.56	20	2115	682	95	1.28	0.1	3.670	0.147	0	0	0	529
PL.30716	PL.30729	ABC	336 MCM AC	7.28Y	121.4	0.06	3.64	101.56	20	2113	679	95	0.69	0.0	3.749	0.079	6	2	4	529
PL.30717	PL.30716	ABC	336 MCM AC	7.28Y	121.3	0.03	3.67	101.25	20	2106	675	95	0.32	0.0	3.786	0.037	8	2	1	525
PL.30930	PL.30717	C	#2 ACSR	7.28Y	121.3	0.00	3.67	2.50	1	17	5	96	0.00	0.0	3.790	0.005	0	0	0	2
PD.4186	PL.30930	C	65T	7.28Y	121.3	0.00	3.67	2.50	0	17	5	96	0.00	0.0	3.790	0.005	0	0	0	2
PL.30931	PD.4186	C	#2 ACSR	7.28Y	121.3	0.00	3.67	2.50	1	17	5	96	0.00	0.0	3.859	0.068	17	5	2	2
PL.30718	PL.30717	ABC	336 MCM AC	7.28Y	121.3	0.06	3.73	100.05	19	2081	667	95	0.68	0.0	3.867	0.081	4	1	1	522
PL.30719	PL.30718	ABC	336 MCM AC	7.27Y	121.2	0.05	3.78	99.88	19	2077	664	95	0.52	0.0	3.928	0.061	3	1	2	521
PL.30495	PL.30719	ABC	336 MCM AC	7.27Y	121.2	0.06	3.83	99.75	19	2073	662	95	0.61	0.0	4.001	0.073	0	0	0	519
PD.4270	PL.30495	ABC	140L	7.27Y	121.2	0.00	3.83	99.75	71	2073	661	95	0.00	0.0	4.001	0.073	0	0	0	519
PL.30496	PD.4270	ABC	336 MCM AC	7.27Y	121.1	0.02	3.85	99.75	19	2073	661	95	0.19	0.0	4.024	0.023	0	0	1	519
PL.30497	PL.30496	ABC	336 MCM AC	7.27Y	121.1	0.03	3.88	99.17	19	2060	657	95	0.35	0.0	4.066	0.042	0	0	0	517
PL.30498	PL.30497	ABC	336 MCM AC	7.26Y	121.1	0.04	3.92	99.17	19	2060	656	95	0.40	0.0	4.115	0.049	8	2	1	517
PL.30720	PL.30498	ABC	336 MCM AC	7.26Y	121.0	0.04	3.96	98.80	19	2052	653	95	0.43	0.0	4.167	0.053	14	4	1	516

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Balanced Voltage Drop Report
Source: Sand Gap

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.30721	PL.30720	ABC	336 MCM AC	7.26Y	121.0	0.03	3.99	98.14	19	2038	648	95	0.34	0.0	4.209	0.041	0	0	1	515
PL.30361	PL.30721	ABC	336 MCM AC	7.26Y	120.9	0.06	4.05	97.14	19	2017	641	95	0.62	0.0	4.288	0.079	9	3	2	510
PL.30586	PL.30361	ABC	336 MCM AC	7.25Y	120.9	0.03	4.09	96.70	19	2007	636	95	0.36	0.0	4.333	0.045	8	2	1	508
PL.30587	PL.30586	ABC	336 MCM AC	7.25Y	120.9	0.03	4.12	96.32	19	1999	633	95	0.32	0.0	4.375	0.042	0	0	0	507
PL.30926	PL.30587	A	#2 ACSR	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	4.379	0.005	0	0	0	1
PD.4184	PL.30926	A	65T	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	4.379	0.005	0	0	0	1
PL.30927	PD.4184	A	#2 ACSR	7.25Y	120.9	0.00	4.12	0.00	0	0	0	100	0.00	0.0	4.454	0.074	0	0	1	1
PL.30714	PL.30587	ABC	336 MCM AC	7.25Y	120.8	0.05	4.17	96.32	19	1998	632	95	0.51	0.0	4.440	0.065	9	3	3	506
PL.30715	PL.30714	ABC	336 MCM AC	7.25Y	120.8	0.06	4.23	95.90	18	1989	629	95	0.63	0.0	4.522	0.082	8	2	2	503
PL.30924	PL.30715	C	#1/0 ACSR	7.25Y	120.8	0.00	4.23	0.00	0	0	0	100	0.00	0.0	4.526	0.005	0	0	0	0
PD.4183	PL.30924	C	65T	7.25Y	120.8	0.00	4.23	0.00	0	0	0	100	0.00	0.0	4.526	0.005	0	0	0	0
PL.30925	PD.4183	C	#1/0 ACSR	7.25Y	120.8	0.00	4.23	0.00	0	0	0	100	0.00	0.0	4.570	0.043	0	0	0	0
PL.30689	PL.30715	ABC	336 MCM AC	7.24Y	120.7	0.03	4.25	95.52	18	1980	625	95	0.26	0.0	4.556	0.034	2	1	2	501
PL.30690	PL.30689	ABC	336 MCM AC	7.24Y	120.7	0.07	4.32	95.41	18	1978	623	95	0.75	0.0	4.653	0.097	0	0	0	499
PL.30688	PL.30690	ABC	336 MCM AC	7.24Y	120.6	0.04	4.36	93.54	18	1938	610	95	0.39	0.0	4.706	0.053	7	2	1	492
PL.30691	PL.30688	ABC	336 MCM AC	7.23Y	120.5	0.12	4.48	93.23	18	1931	607	95	1.24	0.1	4.876	0.170	5	2	1	491
PL.30692	PL.30691	ABC	336 MCM AC	7.23Y	120.5	0.06	4.54	92.97	18	1925	603	95	0.59	0.0	4.957	0.081	0	0	0	490
PL.30363	PL.30692	ABC	336 MCM AC	7.22Y	120.4	0.06	4.60	88.57	17	1833	574	95	0.56	0.0	5.041	0.084	0	0	0	471
PL.30187	PL.30363	ABC	336 MCM AC	7.22Y	120.4	0.02	4.62	88.57	17	1832	573	95	0.18	0.0	5.069	0.028	0	0	0	471
PL.30583	PL.30187	ABC	336 MCM AC	7.22Y	120.3	0.04	4.66	88.57	17	1832	572	95	0.39	0.0	5.128	0.059	4	1	1	471
PL.30902	PL.30583	A	#4 ACSR	7.22Y	120.3	0.00	4.66	0.65	1	5	1	98	0.00	0.0	5.133	0.005	0	0	0	5
PD.4172	PL.30902	A	65T	7.22Y	120.3	0.00	4.66	0.65	0	5	1	98	0.00	0.0	5.133	0.005	0	0	0	5
PL.30903	PD.4172	A	#4 ACSR	7.22Y	120.3	0.00	4.66	0.65	1	5	1	98	0.00	0.0	5.143	0.010	5	1	5	5
PL.30584	PL.30583	ABC	336 MCM AC	7.21Y	120.2	0.10	4.76	88.09	17	1822	568	95	0.98	0.1	5.278	0.150	0	0	0	464
PL.30669	PL.30584	ABC	336 MCM AC	7.21Y	120.1	0.10	4.86	87.68	17	1812	564	95	0.92	0.1	5.421	0.143	2	0	1	463
PL.30670	PL.30669	ABC	336 MCM AC	7.21Y	120.1	0.03	4.89	87.60	17	1809	561	96	0.33	0.0	5.472	0.051	7	2	2	462
PL.30668	PL.30670	ABC	336 MCM AC	7.20Y	120.0	0.07	4.96	87.24	17	1802	558	96	0.66	0.0	5.575	0.103	0	0	0	460
PL.30430	PL.30668	ABC	336 MCM AC	7.20Y	119.9	0.10	5.07	87.24	17	1801	556	96	0.99	0.1	5.729	0.154	1	0	1	460
PL.30191	PL.30430	ABC	#1/0 ACSR	7.20Y	119.9	0.01	5.08	23.55	10	487	147	96	0.05	0.0	5.762	0.033	0	0	0	115
PL.31050	PL.30191	C	#1/0 ACSR	7.20Y	119.9	0.00	5.08	0.00	0	0	0	100	0.00	0.0	5.766	0.005	0	0	0	0
PD.4252	PL.31050	C	65T	7.20Y	119.9	0.00	5.08	0.00	0	0	0	100	0.00	0.0	5.766	0.005	0	0	0	0

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Balanced Voltage Drop Report
Source: Sand Gap

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.31051	PD.4252	C	#1/0 ACSR	7.20Y	119.9	0.00	5.08	0.00	0	0	0	100	0.00	0.0	5.816	0.049	0	0	0	0
PL.30660	PL.30191	ABC	#1/0 ACSR	7.19Y	119.9	0.05	5.13	23.55	10	487	147	96	0.16	0.0	5.871	0.109	3	1	3	115
PL.30661	PL.30660	ABC	#1/0 ACSR	7.19Y	119.8	0.05	5.17	23.40	10	483	146	96	0.16	0.0	5.981	0.110	0	0	0	112
PL.30485	PL.30661	A	#1/0 ACSR	7.19Y	119.8	0.08	5.25	62.52	27	430	130	96	0.22	0.1	6.033	0.052	0	0	0	101
PD.4266	PL.30485	A	100L	7.19Y	119.8	0.00	5.25	62.52	63	430	130	96	0.00	0.0	6.033	0.052	0	0	0	101
PL.30486	PD.4266	A	#1/0 ACSR	7.18Y	119.7	0.02	5.27	62.52	27	430	130	96	0.06	0.0	6.047	0.014	12	4	2	101
PL.30201	PL.30486	A	6 A (CWC)	7.16Y	119.3	0.45	5.72	60.71	43	418	126	96	1.45	0.3	6.209	0.162	0	0	0	99
PL.30435	PL.30201	A	6 A (CWC)	7.14Y	119.0	0.28	6.00	60.71	43	416	125	96	0.90	0.2	6.309	0.101	1	0	1	99
PL.30890	PL.30435	A	6 A (CWC)	7.14Y	119.0	0.00	6.01	16.85	12	115	34	96	0.00	0.0	6.314	0.005	0	0	0	27
PD.4166	PL.30890	A	30T	7.14Y	119.0	0.00	6.01	16.85	0	115	34	96	0.00	0.0	6.314	0.005	0	0	0	27
PL.30891	PD.4166	A	6 A (CWC)	7.14Y	119.0	0.03	6.04	16.85	12	115	34	96	0.03	0.0	6.361	0.047	15	4	3	27
PL.30200	PL.30891	A	#1/0 ACSR	7.14Y	119.0	0.00	6.04	1.67	1	11	3	96	0.00	0.0	6.379	0.018	11	3	1	1
PL.30664	PL.30891	A	6 A (CWC)	7.13Y	118.9	0.05	6.09	12.98	9	89	27	96	0.03	0.0	6.444	0.083	15	5	4	23
PL.30665	PL.30664	A	6 A (CWC)	7.13Y	118.9	0.02	6.10	10.74	8	73	22	96	0.01	0.0	6.476	0.032	0	0	0	19
PL.30199	PL.30665	A	6 A (CWC)	7.13Y	118.8	0.06	6.16	5.79	4	40	12	96	0.02	0.0	6.737	0.261	9	3	3	11
PL.30319	PL.30199	A	6 A (CWC)	7.13Y	118.8	0.00	6.17	0.31	0	2	1	89	0.00	0.0	6.861	0.123	0	0	0	1
PL.30320	PL.30319	A	#1/0 ACSR	7.13Y	118.8	0.00	6.17	0.31	0	2	1	89	0.00	0.0	7.009	0.148	2	1	1	1
PL.30318	PL.30199	A	6 A (CWC)	7.13Y	118.8	0.01	6.17	4.11	3	28	8	96	0.00	0.0	6.805	0.067	14	4	4	7
PL.30866	PL.30318	A	#2 ACSR	7.13Y	118.8	0.00	6.17	2.00	1	14	4	96	0.00	0.0	6.834	0.029	5	2	2	3
PL.30867	PL.30866	A	#2 ACSR	7.13Y	118.8	0.00	6.18	1.23	1	8	2	97	0.00	0.0	6.865	0.031	8	2	1	1
PL.30192	PL.30665	A	#4 ACSR	7.13Y	118.9	0.00	6.10	1.43	1	10	3	96	0.00	0.0	6.490	0.013	10	3	1	1
PL.30368	PL.30665	A	6 A (CWC)	7.13Y	118.9	0.01	6.11	2.51	2	17	5	96	0.00	0.0	6.539	0.062	5	2	2	4
PL.30198	PL.30368	A	#1/0 ACSR	7.13Y	118.9	0.00	6.11	1.74	1	12	4	95	0.00	0.0	6.576	0.038	12	4	2	2
PL.30666	PL.30665	A	#4 ACSR	7.13Y	118.9	0.00	6.11	1.01	1	7	2	96	0.00	0.0	6.559	0.083	3	1	1	3
PL.30667	PL.30666	A	#4 ACSR	7.13Y	118.9	0.00	6.11	0.56	0	4	1	97	0.00	0.0	6.631	0.072	4	1	1	2
PL.30663	PL.30667	A	#4 ACSR	7.13Y	118.9	0.00	6.11	0.01	0	0	0	100	0.00	0.0	6.686	0.055	0	0	1	1
PL.31046	PL.30435	A	#4 ACSR	7.14Y	119.0	0.00	6.00	1.32	1	9	3	95	0.00	0.0	6.314	0.005	0	0	0	3
PD.4250	PL.31046	A	30T	7.14Y	119.0	0.00	6.00	1.32	0	9	3	95	0.00	0.0	6.314	0.005	0	0	0	3
PL.31047	PD.4250	A	#4 ACSR	7.14Y	119.0	0.00	6.01	1.32	1	9	3	95	0.00	0.0	6.373	0.059	8	2	2	3
PL.30662	PL.31047	A	#4 ACSR	7.14Y	119.0	0.00	6.01	0.13	0	1	0	100	0.00	0.0	6.414	0.042	1	0	1	1
PL.30367	PL.30435	A	6 A (CWC)	7.12Y	118.7	0.26	6.27	42.47	30	290	87	96	0.57	0.2	6.449	0.140	26	8	6	68

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

Balanced Voltage Drop Report
Source: Sand Gap

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.30202	PL.30367	A	6 A (CWC)	7.12Y	118.6	0.13	6.39	35.08	25	239	72	96	0.23	0.1	6.530	0.081	8	3	1	58
PL.30626	PL.30202	A	6 A (CWC)	7.11Y	118.4	0.18	6.57	33.84	24	231	69	96	0.32	0.1	6.646	0.116	1	0	1	57
REG81	PL.30626	A	76.2 KVA	7.53Y	125.5	-7.06	-0.49	33.65	34	229	69	96	percent Boost= 5.62			Tap= 9.0				56
PL.30627	REG81	A	6 A (CWC)	7.52Y	125.4	0.10	-0.39	31.76	23	229	69	96	0.17	0.1	6.716	0.070	8	2	3	56
PL.30625	PL.30627	A	6 A (CWC)	7.51Y	125.2	0.14	-0.25	30.63	22	221	66	96	0.22	0.1	6.816	0.100	13	4	5	53
PL.30624	PL.30625	A	6 A (CWC)	7.51Y	125.2	0.08	-0.16	28.82	21	207	62	96	0.13	0.1	6.879	0.063	0	0	1	48
PL.30628	PL.30624	A	6 A (CWC)	7.51Y	125.1	0.05	-0.11	28.77	21	207	62	96	0.08	0.0	6.919	0.040	9	3	2	47
PL.30629	PL.30628	A	6 A (CWC)	7.50Y	125.0	0.07	-0.04	27.46	20	197	59	96	0.11	0.1	6.980	0.061	11	3	2	45
PL.30179	PL.30629	A	6 A (CWC)	7.49Y	124.9	0.13	0.09	25.87	18	186	56	96	0.17	0.1	7.090	0.111	7	2	2	43
PL.30173	PL.30179	A	6 A (CWC)	7.49Y	124.9	0.01	0.10	1.93	1	14	4	96	0.00	0.0	7.168	0.077	6	2	2	3
PL.30174	PL.30173	A	6 A (CWC)	7.49Y	124.9	0.00	0.10	1.14	1	8	2	97	0.00	0.0	7.206	0.038	8	2	1	1
PL.30175	PL.30173	A	#1/0 ACSR	7.49Y	124.9	0.00	0.10	0.00	0	0	0	100	0.00	0.0	7.222	0.054	0	0	0	0
PL.30180	PL.30179	A	6 A (CWC)	7.49Y	124.9	0.05	0.14	22.93	16	165	49	96	0.06	0.0	7.136	0.045	0	0	0	38
PL.31040	PL.30180	A	#4 ACSR	7.49Y	124.9	0.00	0.14	0.37	0	3	1	95	0.00	0.0	7.141	0.005	0	0	0	1
PD.4247	PL.31040	A	30T	7.49Y	124.9	0.00	0.14	0.37	0	3	1	95	0.00	0.0	7.141	0.005	0	0	0	1
PL.31041	PD.4247	A	#4 ACSR	7.49Y	124.9	0.00	0.14	0.37	0	3	1	95	0.00	0.0	7.284	0.143	3	1	1	1
PL.30968	PL.30180	A	6 A (CWC)	7.49Y	124.9	0.00	0.14	22.56	16	162	48	96	0.01	0.0	7.141	0.005	0	0	0	37
PD.4205	PL.30968	A	30T	7.49Y	124.9	0.00	0.14	22.56	0	162	48	96	0.00	0.0	7.141	0.005	0	0	0	37
PL.30969	PD.4205	A	6 A (CWC)	7.48Y	124.7	0.11	0.26	22.56	16	162	48	96	0.13	0.1	7.249	0.108	3	1	1	37
PL.30181	PL.30969	A	6 A (CWC)	7.48Y	124.7	0.07	0.33	16.31	12	117	35	96	0.06	0.1	7.345	0.097	0	0	0	32
PL.30470	PL.30181	A	6 A (CWC)	7.48Y	124.7	0.00	0.33	1.76	1	13	4	96	0.00	0.0	7.351	0.006	2	1	2	8
PL.30471	PL.30470	A	6 A (CWC)	7.48Y	124.7	0.00	0.33	1.43	1	10	3	96	0.00	0.0	7.418	0.067	10	3	6	6
PL.30468	PL.30181	A	6 A (CWC)	7.48Y	124.6	0.07	0.39	14.54	10	104	31	96	0.05	0.0	7.448	0.103	9	3	2	24
PL.30469	PL.30468	A	6 A (CWC)	7.47Y	124.6	0.03	0.42	13.34	10	96	29	96	0.02	0.0	7.504	0.056	19	6	4	22
PL.30972	PL.30469	A	#4 ACSR	7.47Y	124.6	0.00	0.43	4.80	4	34	10	96	0.00	0.0	7.509	0.005	0	0	0	8
PD.4207	PL.30972	A	20T	7.47Y	124.6	0.00	0.43	4.80	0	34	10	96	0.00	0.0	7.509	0.005	0	0	0	8
PL.30973	PD.4207	A	#4 ACSR	7.47Y	124.6	0.01	0.44	4.80	4	34	10	96	0.00	0.0	7.601	0.093	25	7	5	8
PL.30472	PL.30973	A	#4 ACSR	7.47Y	124.6	0.00	0.44	1.32	1	9	3	95	0.00	0.0	7.646	0.045	0	0	0	3
PL.30588	PL.30472	A	#4 ACSR	7.47Y	124.6	0.00	0.44	1.32	1	9	3	95	0.00	0.0	7.681	0.035	0	0	0	3
PL.30475	PL.30588	A	#4 ACSR	7.47Y	124.6	0.00	0.45	1.32	1	9	3	95	0.00	0.0	7.744	0.064	5	1	1	3
PL.30759	PL.30475	A	#4 ACSR	7.47Y	124.6	0.00	0.45	0.67	1	5	1	98	0.00	0.0	7.828	0.084	5	1	2	2

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Balanced Voltage Drop Report
Source: Sand Gap

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.30177	PL.30472	A	#4 ACSR	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	7.669	0.023	0	0	0	0
PL.30176	PL.30472	A	#4 ACSR	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	7.714	0.068	0	0	0	0
PL.30473	PL.30469	A	6 A (CWC)	7.47Y	124.6	0.02	0.44	5.93	4	42	13	96	0.00	0.0	7.592	0.088	20	6	4	10
PL.30474	PL.30473	A	6 A (CWC)	7.47Y	124.6	0.00	0.45	3.09	2	22	7	95	0.00	0.0	7.619	0.027	0	0	0	6
PL.30182	PL.30474	A	6 A (CWC)	7.47Y	124.6	0.00	0.45	3.09	2	22	7	95	0.00	0.0	7.645	0.027	21	6	5	6
PL.30183	PL.30182	A	6 A (CWC)	7.47Y	124.6	0.00	0.45	0.00	0	0	0	100	0.00	0.0	7.802	0.157	0	0	0	0
PL.30178	PL.30182	A	#4 ACSR	7.47Y	124.6	0.00	0.45	0.22	0	2	0	100	0.00	0.0	7.689	0.043	2	0	1	1
PL.30970	PL.30969	A	#4 ACSR	7.48Y	124.7	0.00	0.26	1.28	1	9	3	95	0.00	0.0	7.253	0.005	0	0	0	3
PD.4206	PL.30970	A	20T	7.48Y	124.7	0.00	0.26	1.28	0	9	3	95	0.00	0.0	7.253	0.005	0	0	0	3
PL.30971	PD.4206	A	#4 ACSR	7.48Y	124.7	0.00	0.26	1.28	1	9	3	95	0.00	0.0	7.332	0.079	9	3	3	3
PL.31042	PL.30969	A	6 A (CWC)	7.48Y	124.7	0.00	0.26	4.56	3	33	10	96	0.00	0.0	7.253	0.005	0	0	0	1
PD.4248	PL.31042	A	20T	7.48Y	124.7	0.00	0.26	4.56	0	33	10	96	0.00	0.0	7.253	0.005	0	0	0	1
PL.31043	PD.4248	A	6 A (CWC)	7.48Y	124.7	0.00	0.26	4.56	3	33	10	96	0.00	0.0	7.281	0.028	33	10	1	1
PL.30467	PL.31043	A	6 A (CWC)	7.48Y	124.7	0.00	0.26	0.00	0	0	0	100	0.00	0.0	7.309	0.028	0	0	0	0
PL.30203	PL.30367	A	#1/0 ACSR	7.12Y	118.7	0.00	6.27	3.59	2	25	7	96	0.00	0.0	6.508	0.059	0	0	0	4
PL.30888	PL.30203	A	6 A (CWC)	7.12Y	118.7	0.00	6.27	3.59	3	25	7	96	0.00	0.0	6.513	0.005	0	0	0	4
PD.4165	PL.30888	A	30T	7.12Y	118.7	0.00	6.27	3.59	0	25	7	96	0.00	0.0	6.513	0.005	0	0	0	4
PL.30889	PD.4165	A	6 A (CWC)	7.12Y	118.7	0.00	6.27	3.59	3	25	7	96	0.00	0.0	6.548	0.035	25	7	4	4
PL.31048	PL.30661	B	6 A (CWC)	7.19Y	119.8	0.00	5.17	7.67	5	53	16	96	0.00	0.0	5.986	0.005	0	0	0	11
PD.4251	PL.31048	B	65T	7.19Y	119.8	0.00	5.17	7.67	0	53	16	96	0.00	0.0	5.986	0.005	0	0	0	11
PL.31049	PD.4251	B	6 A (CWC)	7.19Y	119.8	0.05	5.22	7.67	5	53	16	96	0.02	0.0	6.119	0.134	5	1	1	11
PL.30653	PL.31049	B	6 A (CWC)	7.19Y	119.8	0.02	5.24	7.00	5	48	14	96	0.01	0.0	6.173	0.054	0	0	0	10
PL.30369	PL.30653	B	6 A (CWC)	7.18Y	119.7	0.03	5.27	5.99	4	41	12	96	0.01	0.0	6.297	0.123	0	0	0	7
PL.30431	PL.30369	B	6 A (CWC)	7.18Y	119.7	0.02	5.29	5.99	4	41	12	96	0.01	0.0	6.363	0.066	0	0	0	7
PL.30622	PL.30431	B	6 A (CWC)	7.18Y	119.7	0.03	5.32	5.99	4	41	12	96	0.01	0.0	6.487	0.124	11	3	2	7
PL.30623	PL.30622	B	6 A (CWC)	7.18Y	119.7	0.02	5.34	4.37	3	30	9	96	0.00	0.0	6.590	0.103	0	0	0	5
PL.30620	PL.30623	B	6 A (CWC)	7.18Y	119.6	0.02	5.36	4.37	3	30	9	96	0.00	0.0	6.687	0.097	11	3	1	5
PL.30621	PL.30620	B	6 A (CWC)	7.18Y	119.6	0.02	5.37	2.83	2	19	6	95	0.00	0.0	6.803	0.117	0	0	0	4
PL.30432	PL.30621	B	6 A (CWC)	7.18Y	119.6	0.01	5.38	2.83	2	19	6	95	0.00	0.0	6.903	0.100	0	0	0	4
PL.30433	PL.30432	B	6 A (CWC)	7.18Y	119.6	0.01	5.40	2.83	2	19	6	95	0.00	0.0	7.028	0.125	11	3	2	4
PL.30211	PL.30433	B	6 A (CWC)	7.18Y	119.6	0.00	5.40	1.30	1	9	3	95	0.00	0.0	7.082	0.053	9	3	2	2

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Balanced Voltage Drop Report
Source: Sand Gap

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.30370	PL.30433	B	6 A (CWC)	7.18Y	119.6	0.00	5.40	0.00	0	0	0	100	0.00	0.0	7.138	0.110	0	0	0	0
PL.30434	PL.30370	B	6 A (CWC)	7.18Y	119.6	0.00	5.40	0.00	0	0	0	100	0.00	0.0	7.225	0.087	0	0	0	0
PL.30651	PL.30653	B	#4 ACSR	7.19Y	119.8	0.00	5.24	1.00	1	7	2	96	0.00	0.0	6.199	0.026	2	1	1	3
PL.30652	PL.30651	B	#4 ACSR	7.19Y	119.8	0.00	5.24	0.74	1	5	2	93	0.00	0.0	6.234	0.035	5	2	2	2
PL.30366	PL.30430	ABC	336 MCM AC	7.19Y	119.9	0.08	5.14	63.63	12	1312	406	96	0.53	0.0	5.886	0.156	0	0	0	344
PL.30436	PL.30366	ABC	336 MCM AC	7.19Y	119.8	0.09	5.23	63.63	12	1312	405	96	0.60	0.0	6.060	0.174	0	0	0	344
PL.30437	PL.30436	ABC	336 MCM AC	7.18Y	119.7	0.06	5.29	63.63	12	1311	404	96	0.41	0.0	6.180	0.120	0	0	0	344
PL.30886	PL.30437	A	#4 ACSR	7.18Y	119.7	0.00	5.29	2.57	2	18	5	96	0.00	0.0	6.185	0.005	0	0	0	7
PD.4164	PL.30886	A	65T	7.18Y	119.7	0.00	5.29	2.57	0	18	5	96	0.00	0.0	6.185	0.005	0	0	0	7
PL.30887	PD.4164	A	#4 ACSR	7.18Y	119.7	0.01	5.29	2.57	2	18	5	96	0.00	0.0	6.271	0.086	6	2	2	7
PL.30655	PL.30887	A	#4 ACSR	7.18Y	119.7	0.00	5.30	1.75	1	12	4	95	0.00	0.0	6.327	0.056	4	1	2	5
PL.30654	PL.30655	A	#4 ACSR	7.18Y	119.7	0.00	5.30	1.18	1	8	2	97	0.00	0.0	6.343	0.017	0	0	0	3
PL.30204	PL.30654	A	#4 ACSR	7.18Y	119.7	0.00	5.30	1.18	1	8	2	97	0.00	0.0	6.381	0.037	1	0	1	3
PL.30371	PL.30204	A	#4 ACSR	7.18Y	119.7	0.00	5.30	0.97	1	7	2	96	0.00	0.0	6.424	0.043	7	2	2	2
PL.30205	PL.30204	A	#4 ACSR	7.18Y	119.7	0.00	5.30	0.00	0	0	0	100	0.00	0.0	6.416	0.036	0	0	0	0
PL.31052	PL.30437	C	#4 ACSR	7.18Y	119.7	0.00	5.29	1.09	1	7	2	96	0.00	0.0	6.185	0.005	0	0	0	2
PD.4253	PL.31052	C	65T	7.18Y	119.7	0.00	5.29	1.09	0	7	2	96	0.00	0.0	6.185	0.005	0	0	0	2
PL.31053	PD.4253	C	#4 ACSR	7.18Y	119.7	0.00	5.29	1.09	1	7	2	96	0.00	0.0	6.219	0.035	7	2	2	2
PL.30657	PL.30437	ABC	336 MCM AC	7.18Y	119.7	0.03	5.31	62.41	12	1285	395	96	0.18	0.0	6.237	0.057	14	4	3	335
PL.30658	PL.30657	ABC	336 MCM AC	7.18Y	119.7	0.02	5.33	61.74	12	1271	391	96	0.13	0.0	6.278	0.042	18	5	4	332
PL.30659	PL.30658	ABC	336 MCM AC	7.18Y	119.6	0.07	5.40	60.87	12	1253	385	96	0.43	0.0	6.418	0.139	0	0	0	328
PL.30206	PL.30659	A	#1/0 ACSR	7.18Y	119.6	0.00	5.40	4.50	2	31	9	96	0.00	0.0	6.422	0.005	0	0	0	3
PD.4163	PL.30206	A	65T	7.18Y	119.6	0.00	5.40	4.50	0	31	9	96	0.00	0.0	6.422	0.005	0	0	0	3
PL.30207	PD.4163	A	#4 ACSR	7.18Y	119.6	0.00	5.40	3.07	2	21	6	96	0.00	0.0	6.491	0.069	21	6	2	2
PL.30372	PD.4163	A	#1/0 ACSR	7.18Y	119.6	0.00	5.40	1.42	1	10	3	96	0.00	0.0	6.439	0.017	10	3	1	1
PL.30656	PL.30659	ABC	336 MCM AC	7.17Y	119.6	0.02	5.42	59.37	11	1222	375	96	0.14	0.0	6.465	0.048	11	3	2	325
PL.30489	PL.30656	ABC	336 MCM AC	7.17Y	119.5	0.04	5.46	58.83	11	1211	371	96	0.23	0.0	6.546	0.080	0	0	0	323
PL.30490	PL.30489	ABC	336 MCM AC	7.17Y	119.5	0.00	5.46	58.83	11	1210	371	96	0.01	0.0	6.548	0.002	0	0	0	323
PL.30376	PL.30490	ABC	336 MCM AC	7.17Y	119.5	0.02	5.48	46.05	9	947	291	96	0.10	0.0	6.603	0.055	0	0	0	265
PL.30208	PL.30376	C	#1/0 ACSR	7.17Y	119.5	0.04	5.51	59.52	26	408	127	95	0.10	0.0	6.629	0.026	0	0	0	102
PL.30483	PL.30208	C	#1/0 ACSR	7.17Y	119.5	0.00	5.52	59.52	26	407	127	95	0.01	0.0	6.631	0.003	0	0	0	102

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Balanced Voltage Drop Report
Source: Sand Gap

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.4265	PL.30483	C	100L	7.17Y	119.5	0.00	5.52	59.52	60	407	127	95	0.00	0.0	6.631	0.003	0	0	0	102
PL.30484	PD.4265	C	#1/0 ACSR	7.16Y	119.4	0.12	5.63	59.52	26	407	127	95	0.32	0.1	6.715	0.084	9	3	1	102
PL.30648	PL.30484	C	#1/0 ACSR	7.16Y	119.3	0.04	5.67	58.15	25	398	124	95	0.10	0.0	6.744	0.029	16	5	2	101
PL.30646	PL.30648	C	#1/0 ACSR	7.16Y	119.3	0.07	5.74	53.69	23	367	114	95	0.16	0.0	6.798	0.054	19	6	5	97
PL.30647	PL.30646	C	#1/0 ACSR	7.15Y	119.2	0.10	5.84	50.93	22	348	109	95	0.24	0.1	6.882	0.084	0	0	0	92
PL.30213	PL.30647	C	#2 ACSR	7.15Y	119.2	0.00	5.84	1.92	1	13	4	96	0.00	0.0	6.959	0.077	13	4	2	2
PL.30378	PL.30647	C	#1/0 ACSR	7.14Y	119.0	0.13	5.97	45.92	20	313	98	95	0.28	0.1	7.003	0.121	0	0	2	84
PL.30214	PL.30378	C	#2 ACSR	7.14Y	119.0	0.00	5.97	0.00	0	0	0	100	0.00	0.0	7.083	0.081	0	0	0	0
PL.30379	PL.30378	C	#1/0 ACSR	7.13Y	118.9	0.12	6.09	45.92	20	313	98	95	0.25	0.1	7.111	0.108	0	0	0	82
PL.30440	PL.30379	C	#1/0 ACSR	7.13Y	118.8	0.10	6.19	45.92	20	313	97	96	0.22	0.1	7.205	0.094	0	0	0	82
PL.30215	PL.30440	C	6 A (CWC)	7.13Y	118.8	0.00	6.19	1.17	1	8	2	97	0.00	0.0	7.250	0.045	8	2	1	1
PL.30574	PL.30440	C	#1/0 ACSR	7.12Y	118.7	0.10	6.29	44.75	19	305	95	95	0.21	0.1	7.302	0.097	0	0	0	81
PL.30575	PL.30574	C	#1/0 ACSR	7.12Y	118.7	0.03	6.33	44.75	19	304	94	96	0.06	0.0	7.331	0.029	0	0	0	81
PL.30616	PL.30575	C	#1/0 ACSR	7.12Y	118.6	0.03	6.36	44.75	19	304	94	96	0.07	0.0	7.364	0.032	1	0	1	81
PL.30617	PL.30616	C	#1/0 ACSR	7.11Y	118.5	0.16	6.52	44.64	19	304	94	96	0.33	0.1	7.520	0.156	2	1	1	80
PL.30615	PL.30617	C	#1/0 ACSR	7.10Y	118.3	0.16	6.68	44.29	19	301	93	96	0.31	0.1	7.669	0.150	5	1	1	79
PL.30618	PL.30615	C	#1/0 ACSR	7.09Y	118.2	0.12	6.80	43.58	19	296	91	96	0.24	0.1	7.785	0.115	1	0	1	78
REG82	PL.30618	C	76.2 KVA	7.51Y	125.2	-7.05	-0.25	43.38	43	294	90	96	percent Boost= 0.00 Tap= 0.0							77
PL.30619	REG82	C	#1/0 ACSR	7.51Y	125.2	0.09	-0.16	40.94	18	294	90	96	0.17	0.1	7.877	0.093	0	0	0	77
PL.30217	PL.30619	C	#1/0 ACSR	7.51Y	125.2	0.00	-0.16	0.26	0	2	1	89	0.00	0.0	7.921	0.043	0	0	0	1
PL.30243	PL.30217	C	6 A (CWC)	7.51Y	125.2	0.00	-0.16	0.26	0	2	1	89	0.00	0.0	7.974	0.053	2	1	1	1
PL.30380	PL.30619	C	#1/0 ACSR	7.51Y	125.1	0.07	-0.09	40.68	18	292	90	96	0.13	0.0	7.951	0.074	8	2	2	76
PL.30576	PL.30380	C	6 A (CWC)	7.50Y	125.1	0.00	-0.08	1.72	1	12	4	95	0.00	0.0	8.010	0.058	0	0	0	1
PL.30577	PL.30576	C	6 A (CWC)	7.50Y	125.1	0.00	-0.08	0.00	0	0	0	100	0.00	0.0	8.116	0.106	0	0	0	0
PL.30321	PL.30577	C	6 A (CWC)	7.50Y	125.1	0.00	-0.08	0.00	0	0	0	100	0.00	0.0	8.251	0.135	0	0	0	0
PL.30441	PL.30321	C	6 A (CWC)	7.50Y	125.1	0.00	-0.08	0.00	0	0	0	100	0.00	0.0	8.373	0.122	0	0	0	0
PL.30442	PL.30441	C	6 A (CWC)	7.50Y	125.1	0.00	-0.08	0.00	0	0	0	100	0.00	0.0	8.471	0.098	0	0	0	0
PL.30244	PL.30576	C	#1/0 ACSR	7.50Y	125.1	0.00	-0.08	1.72	1	12	4	95	0.00	0.0	8.037	0.027	0	0	0	1
PL.30218	PL.30244	C	#1/0 ACSR	7.50Y	125.1	0.00	-0.08	1.72	1	12	4	95	0.00	0.0	8.116	0.079	12	4	1	1
PL.30580	PL.30380	C	#1/0 ACSR	7.50Y	125.0	0.07	-0.02	37.80	16	271	83	96	0.12	0.0	8.032	0.081	11	3	1	73
PL.30219	PL.30580	C	#1/0 ACSR	7.50Y	125.0	0.00	-0.02	0.10	0	1	0	100	0.00	0.0	8.075	0.042	1	0	1	1

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

Balanced Voltage Drop Report
Source: Sand Gap

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.30581	PL.30580	C	#1/0 ACSR	7.50Y	124.9	0.09	0.07	36.13	16	259	80	96	0.14	0.1	8.133	0.101	0	0	0	71
PL.30220	PL.30581	C	#1/0 ACSR	7.50Y	124.9	0.00	0.07	0.37	0	3	1	95	0.00	0.0	8.179	0.045	3	1	1	1
PL.30613	PL.30581	C	#1/0 ACSR	7.49Y	124.8	0.10	0.17	35.76	16	256	79	96	0.17	0.1	8.259	0.126	5	2	1	70
PL.30614	PL.30613	C	#1/0 ACSR	7.48Y	124.7	0.12	0.30	35.00	15	251	77	96	0.19	0.1	8.406	0.147	0	0	0	69
PL.30443	PL.30614	C	#1/0 ACSR	7.47Y	124.6	0.14	0.43	35.00	15	250	77	96	0.22	0.1	8.573	0.167	0	0	0	69
PL.30221	PL.30443	C	#1/0 ACSR	7.47Y	124.5	0.05	0.48	35.00	15	250	76	96	0.07	0.0	8.628	0.056	0	0	0	69
PL.30222	PL.30221	C	#1/0 ACSR	7.47Y	124.5	0.00	0.48	0.67	0	5	1	98	0.00	0.0	8.660	0.032	5	1	1	1
PL.30612	PL.30221	C	#1/0 ACSR	7.47Y	124.5	0.03	0.51	34.33	15	245	75	96	0.05	0.0	8.665	0.037	2	0	1	68
PL.30637	PL.30612	C	#1/0 ACSR	7.47Y	124.4	0.07	0.58	34.12	15	244	74	96	0.11	0.0	8.758	0.092	10	3	2	67
PL.30638	PL.30637	C	#1/0 ACSR	7.46Y	124.4	0.05	0.63	32.75	14	234	71	96	0.07	0.0	8.817	0.059	0	0	0	65
PL.30874	PL.30638	C	#1/0 ACSR	7.46Y	124.4	0.00	0.63	0.56	0	4	1	97	0.00	0.0	8.821	0.004	0	0	0	2
PD.4157	PL.30874	C	30T	7.46Y	124.4	0.00	0.63	0.56	0	4	1	97	0.00	0.0	8.821	0.004	0	0	0	2
PL.30875	PD.4157	C	#1/0 ACSR	7.46Y	124.4	0.00	0.63	0.56	0	4	1	97	0.00	0.0	8.975	0.154	0	0	0	2
PL.30444	PL.30875	C	#1/0 ACSR	7.46Y	124.4	0.00	0.63	0.56	0	4	1	97	0.00	0.0	9.119	0.144	4	1	2	2
PL.30381	PL.30638	C	#1/0 ACSR	7.45Y	124.2	0.13	0.76	31.37	14	224	68	96	0.19	0.1	8.997	0.181	0	0	0	61
PL.30445	PL.30381	C	#1/0 ACSR	7.45Y	124.2	0.06	0.82	31.37	14	224	68	96	0.09	0.0	9.079	0.081	0	0	0	61
PL.30872	PL.30445	C	#4 ACSR	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	9.083	0.005	0	0	0	2
PD.4156	PL.30872	C	30T	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	9.083	0.005	0	0	0	2
PL.30873	PD.4156	C	#4 ACSR	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	9.168	0.085	0	0	0	2
PL.30446	PL.30873	C	#4 ACSR	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	9.268	0.100	0	0	0	2
PL.30606	PL.30446	C	#4 ACSR	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	9.371	0.102	0	0	1	2
PL.30607	PL.30606	C	#4 ACSR	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	9.433	0.062	0	0	0	1
PL.30245	PL.30607	C	#1/0 ACSR	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	9.484	0.051	0	0	1	1
PL.30610	PL.30445	C	6 A (CWC)	7.45Y	124.1	0.08	0.91	31.36	22	224	68	96	0.14	0.1	9.138	0.060	8	2	1	59
PL.30611	PL.30610	C	6 A (CWC)	7.44Y	124.0	0.13	1.04	30.20	22	215	65	96	0.21	0.1	9.234	0.095	0	0	0	58
PL.30447	PL.30611	C	6 A (CWC)	7.43Y	123.8	0.16	1.20	30.20	22	215	65	96	0.26	0.1	9.352	0.118	0	0	0	58
PL.30608	PL.30447	C	6 A (CWC)	7.42Y	123.6	0.20	1.41	30.20	22	215	65	96	0.32	0.1	9.499	0.148	6	2	2	58
PL.30609	PL.30608	C	6 A (CWC)	7.40Y	123.4	0.22	1.63	29.36	21	208	63	96	0.34	0.2	9.662	0.163	0	0	0	56
PL.30224	PL.30609	C	#4 ACSR	7.40Y	123.4	0.00	1.63	0.00	0	0	0	100	0.00	0.0	9.708	0.046	0	0	0	0
PL.30448	PL.30224	C	#4 ACSR	7.40Y	123.4	0.00	1.63	0.00	0	0	0	100	0.00	0.0	9.941	0.232	0	0	0	0
PL.30382	PL.30609	C	6 A (CWC)	7.39Y	123.1	0.23	1.86	29.36	21	208	63	96	0.36	0.2	9.835	0.173	0	0	0	56

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: Sand Gap

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.30449	PL.30382	C	6 A (CWC)	7.38Y	123.0	0.15	2.01	29.36	21	208	63	96	0.24	0.1	9.949	0.114	0	0	0	56
PL.31016	PL.30449	C	6 A (CWC)	7.37Y	122.8	0.19	2.20	29.36	21	207	62	96	0.29	0.1	10.086	0.137	0	0	0	56
PD.4232	PL.31016	C	25T	7.37Y	122.8	0.00	2.20	29.36	0	207	62	96	0.00	0.0	10.086	0.137	0	0	0	56
PL.31017	PD.4232	C	6 A (CWC)	7.36Y	122.6	0.19	2.39	29.36	21	207	62	96	0.29	0.1	10.230	0.144	10	3	2	56
PL.30383	PL.31017	C	6 A (CWC)	7.36Y	122.6	0.00	2.39	0.66	0	5	1	98	0.00	0.0	10.271	0.041	0	0	0	1
PL.30227	PL.30383	C	6 A (CWC)	7.36Y	122.6	0.00	2.39	0.66	0	5	1	98	0.00	0.0	10.336	0.064	5	1	1	1
PL.30226	PL.31017	C	6 A (CWC)	7.35Y	122.5	0.12	2.51	27.32	20	192	58	96	0.17	0.1	10.326	0.096	8	2	2	53
PL.30825	PL.30226	C	6 A (CWC)	7.34Y	122.4	0.09	2.60	24.82	18	175	52	96	0.12	0.1	10.406	0.080	6	2	2	49
PL.30826	PL.30825	C	6 A (CWC)	7.34Y	122.3	0.09	2.69	23.97	17	169	51	96	0.11	0.1	10.488	0.082	6	2	2	47
PL.30824	PL.30826	C	6 A (CWC)	7.33Y	122.2	0.09	2.78	23.12	17	163	49	96	0.12	0.1	10.577	0.089	0	0	0	45
PL.30230	PL.30824	C	#4 ACSR	7.33Y	122.2	0.00	2.78	0.70	1	5	1	98	0.00	0.0	10.606	0.029	5	1	1	1
PL.30229	PL.30824	C	6 A (CWC)	7.33Y	122.2	0.04	2.82	22.42	16	157	47	96	0.04	0.0	10.613	0.036	3	1	1	44
PL.30819	PL.30229	C	6 A (CWC)	7.32Y	122.0	0.16	2.98	17.16	12	121	36	96	0.14	0.1	10.815	0.202	0	0	0	35
PL.30820	PL.30819	C	6 A (CWC)	7.32Y	122.0	0.07	3.05	17.16	12	120	36	96	0.06	0.1	10.905	0.090	7	2	2	35
PL.30234	PL.30820	C	#1/0 ACSR	7.32Y	122.0	0.00	3.05	0.56	0	4	1	97	0.00	0.0	11.002	0.096	4	1	2	2
PL.30235	PL.30234	C	#1/0 ACSR	7.32Y	122.0	0.00	3.05	0.00	0	0	0	100	0.00	0.0	11.243	0.241	0	0	0	0
PL.30572	PL.30820	C	6 A (CWC)	7.31Y	121.8	0.11	3.15	15.55	11	109	33	96	0.09	0.1	11.058	0.153	6	2	2	31
PL.30573	PL.30572	C	6 A (CWC)	7.31Y	121.8	0.04	3.20	12.80	9	90	27	96	0.03	0.0	11.136	0.078	9	3	2	27
PL.30385	PL.30573	C	6 A (CWC)	7.31Y	121.8	0.00	3.20	0.00	0	0	0	100	0.00	0.0	11.254	0.118	0	0	1	1
PL.30817	PL.30573	C	6 A (CWC)	7.30Y	121.7	0.06	3.26	11.53	8	81	24	96	0.04	0.0	11.258	0.122	9	3	3	24
PL.30818	PL.30817	C	6 A (CWC)	7.30Y	121.7	0.03	3.29	10.29	7	72	22	96	0.02	0.0	11.337	0.079	10	3	2	21
PL.30816	PL.30818	C	6 A (CWC)	7.30Y	121.6	0.07	3.37	8.87	6	62	19	96	0.03	0.1	11.519	0.182	0	0	0	19
PL.30811	PL.30816	C	6 A (CWC)	7.30Y	121.6	0.05	3.41	7.87	6	55	16	96	0.02	0.0	11.645	0.125	0	0	1	15
PL.30812	PL.30811	C	6 A (CWC)	7.29Y	121.5	0.06	3.47	7.86	6	55	16	96	0.03	0.0	11.811	0.166	0	0	0	14
PL.30452	PL.30812	C	6 A (CWC)	7.29Y	121.5	0.05	3.52	7.86	6	55	16	96	0.02	0.0	11.938	0.127	0	0	0	14
PL.30809	PL.30452	C	6 A (CWC)	7.29Y	121.5	0.02	3.54	7.67	5	54	16	96	0.01	0.0	11.994	0.055	8	3	2	13
PL.30810	PL.30809	C	6 A (CWC)	7.29Y	121.4	0.03	3.57	6.47	5	45	13	96	0.01	0.0	12.091	0.097	0	0	0	11
PL.30239	PL.30810	C	6 A (CWC)	7.29Y	121.4	0.00	3.57	0.98	1	7	2	96	0.00	0.0	12.136	0.045	7	2	3	3
PL.30238	PL.30810	C	6 A (CWC)	7.29Y	121.4	0.02	3.58	5.49	4	38	11	96	0.00	0.0	12.158	0.067	0	0	0	8
PL.30386	PL.30238	C	6 A (CWC)	7.28Y	121.4	0.02	3.60	4.69	3	33	10	96	0.00	0.0	12.230	0.072	0	0	0	7
PL.30807	PL.30386	C	6 A (CWC)	7.28Y	121.4	0.02	3.62	3.65	3	26	8	96	0.00	0.0	12.341	0.111	3	1	2	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: Sand Gap

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.30808	PL.30807	C	6 A (CWC)	7.28Y	121.4	0.01	3.63	3.26	2	23	7	96	0.00	0.0	12.410	0.069	0	0	0	4
PL.30242	PL.30808	C	6 A (CWC)	7.28Y	121.4	0.00	3.63	0.42	0	3	1	95	0.00	0.0	12.510	0.100	3	1	1	1
PL.30387	PL.30808	C	6 A (CWC)	7.28Y	121.4	0.02	3.65	2.84	2	20	6	96	0.00	0.0	12.555	0.145	0	0	0	3
PL.30453	PL.30387	C	6 A (CWC)	7.28Y	121.3	0.01	3.66	2.84	2	20	6	96	0.00	0.0	12.667	0.112	8	2	2	3
PL.30247	PL.30453	C	#1/0 ACSR	7.28Y	121.3	0.00	3.66	1.74	1	12	4	95	0.00	0.0	12.723	0.055	12	4	1	1
PL.30241	PL.30386	C	#4 ACSR	7.28Y	121.4	0.00	3.60	1.04	1	7	2	96	0.00	0.0	12.259	0.028	7	2	1	1
PL.30240	PL.30238	C	#2 ACSR	7.29Y	121.4	0.00	3.58	0.80	0	6	2	95	0.00	0.0	12.178	0.020	6	2	1	1
PL.30246	PL.30452	C	#1/0 ACSR	7.29Y	121.5	0.00	3.52	0.19	0	1	0	100	0.00	0.0	11.958	0.020	1	0	1	1
PL.30814	PL.30816	C	#4 ACSR	7.30Y	121.6	0.00	3.37	0.99	1	7	2	96	0.00	0.0	11.578	0.059	0	0	1	4
PL.30815	PL.30814	C	#4 ACSR	7.30Y	121.6	0.00	3.37	0.98	1	7	2	96	0.00	0.0	11.650	0.072	7	2	2	3
PL.30813	PL.30815	C	#4 ACSR	7.30Y	121.6	0.00	3.37	0.01	0	0	0	100	0.00	0.0	11.692	0.042	0	0	1	1
PL.30236	PL.30572	C	#2 ACSR	7.31Y	121.8	0.00	3.15	1.96	1	14	4	96	0.00	0.0	11.080	0.022	14	4	2	2
PL.30231	PL.30229	C	#4 ACSR	7.33Y	122.2	0.01	2.82	3.60	3	25	8	95	0.00	0.0	10.664	0.051	5	1	1	4
PL.30384	PL.30231	C	#4 ACSR	7.33Y	122.2	0.01	2.83	1.58	1	11	3	96	0.00	0.0	10.813	0.149	11	3	1	1
PL.30232	PL.30231	C	#4 ACSR	7.33Y	122.2	0.01	2.83	1.35	1	9	3	95	0.00	0.0	10.837	0.172	9	3	2	2
PL.30233	PL.30232	C	#1/0 ACSR	7.33Y	122.2	0.00	2.83	0.00	0	0	0	100	0.00	0.0	10.895	0.059	0	0	0	0
PL.30822	PL.30229	C	6 A (CWC)	7.33Y	122.2	0.01	2.82	1.27	1	9	3	95	0.00	0.0	10.727	0.114	0	0	2	4
PL.30823	PL.30822	C	6 A (CWC)	7.33Y	122.2	0.01	2.83	1.27	1	9	3	95	0.00	0.0	10.842	0.115	0	0	0	2
PL.30821	PL.30823	C	6 A (CWC)	7.33Y	122.2	0.00	2.83	1.27	1	9	3	95	0.00	0.0	10.878	0.036	9	3	2	2
PL.30228	PL.30226	C	6 A (CWC)	7.35Y	122.5	0.00	2.51	1.32	1	9	3	95	0.00	0.0	10.389	0.062	9	3	2	2
PL.30223	PL.30638	C	#1/0 ACSR	7.46Y	124.4	0.00	0.63	0.82	0	6	2	95	0.00	0.0	8.941	0.125	6	2	2	2
PL.32690	PL.30575	C	#1/0 ACSR	7.12Y	118.7	0.00	6.33	0.00	0	0	0	100	0.00	0.0	7.333	0.002	0	0	0	0
PL.30212	PL.30647	C	6 A (CWC)	7.15Y	119.2	0.00	5.84	3.08	2	21	6	96	0.00	0.0	6.910	0.028	21	6	6	6
PL.30649	PL.30648	C	#4 ACSR	7.16Y	119.3	0.00	5.67	2.13	2	15	4	97	0.00	0.0	6.784	0.040	13	4	1	2
PL.30650	PL.30649	C	#4 ACSR	7.16Y	119.3	0.00	5.67	0.20	0	1	0	100	0.00	0.0	6.845	0.061	1	0	1	1
PL.30377	PL.30376	ABC	336 MCM AC	7.17Y	119.5	0.00	5.48	26.21	5	540	164	96	0.01	0.0	6.626	0.023	1	0	1	163
PL.30805	PL.30377	ABC	336 MCM AC	7.17Y	119.5	0.01	5.50	26.14	5	538	163	96	0.04	0.0	6.699	0.073	23	7	1	162
PL.30806	PL.30805	ABC	336 MCM AC	7.17Y	119.5	0.01	5.51	25.05	5	515	157	96	0.03	0.0	6.763	0.064	10	3	2	161
PL.31056	PL.30806	ABC	336 MCM AC	7.17Y	119.5	0.00	5.51	23.96	5	493	150	96	0.00	0.0	6.767	0.004	0	0	0	157
PL.31057	PL.31056	ABC	336 MCM AC	7.17Y	119.5	0.02	5.53	23.96	5	493	150	96	0.05	0.0	6.872	0.104	0	0	0	157
PL.30803	PL.31057	ABC	336 MCM AC	7.17Y	119.5	0.00	5.53	23.84	5	490	149	96	0.01	0.0	6.898	0.026	4	1	2	154

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Balanced Voltage Drop Report
Source: Sand Gap

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.30804	PL.30803	ABC	336 MCM AC	7.17Y	119.5	0.00	5.54	23.63	5	486	148	96	0.01	0.0	6.924	0.027	0	0	0	152
PL.31014	PL.30804	C	#1/0 ACSR	7.17Y	119.5	0.00	5.54	0.48	0	3	1	95	0.00	0.0	6.929	0.004	0	0	0	1
PD.4231	PL.31014	C	65T	7.17Y	119.5	0.00	5.54	0.48	0	3	1	95	0.00	0.0	6.929	0.004	0	0	0	1
PL.31015	PD.4231	C	#1/0 ACSR	7.17Y	119.5	0.00	5.54	0.48	0	3	1	95	0.00	0.0	6.961	0.032	3	1	1	1
PL.30571	PL.30804	ABC	336 MCM AC	7.17Y	119.5	0.01	5.54	23.47	5	483	147	96	0.02	0.0	6.963	0.039	10	3	1	151
PL.30798	PL.30571	ABC	336 MCM AC	7.17Y	119.4	0.01	5.56	22.97	4	473	144	96	0.03	0.0	7.033	0.069	0	0	2	150
PL.30799	PL.30798	ABC	336 MCM AC	7.17Y	119.4	0.01	5.56	22.97	4	473	143	96	0.02	0.0	7.076	0.043	12	4	1	148
PL.30388	PL.30799	ABC	336 MCM AC	7.17Y	119.4	0.01	5.57	21.99	4	452	137	96	0.02	0.0	7.118	0.042	9	3	1	146
PL.30796	PL.30388	ABC	#1/0 ACSR	7.16Y	119.4	0.04	5.61	21.01	9	432	131	96	0.12	0.0	7.218	0.100	3	1	1	139
PL.30797	PL.30796	ABC	#1/0 ACSR	7.16Y	119.3	0.05	5.66	20.87	9	429	130	96	0.14	0.0	7.342	0.123	0	0	0	138
PL.30493	PL.30797	ABC	#1/0 ACSR	7.16Y	119.3	0.04	5.70	20.87	9	429	130	96	0.13	0.0	7.457	0.116	0	0	0	138
PD.4269	PL.30493	ABC	50L	7.16Y	119.3	0.00	5.70	20.87	42	429	130	96	0.00	0.0	7.457	0.116	0	0	0	138
PL.30494	PD.4269	ABC	#1/0 ACSR	7.16Y	119.3	0.02	5.72	20.87	9	429	130	96	0.05	0.0	7.505	0.048	9	3	1	138
PL.30570	PL.30494	ABC	#1/0 ACSR	7.16Y	119.3	0.03	5.75	19.60	9	403	122	96	0.09	0.0	7.590	0.085	4	1	1	135
PL.30390	PL.30570	ABC	#1/0 ACSR	7.15Y	119.2	0.05	5.79	19.06	8	392	119	96	0.13	0.0	7.722	0.132	0	0	0	133
PL.30391	PL.30390	ABC	#1/0 ACSR	7.15Y	119.2	0.05	5.85	18.82	8	386	117	96	0.14	0.0	7.873	0.151	0	0	0	132
PL.31006	PL.30391	C	#4 ACSR	7.15Y	119.2	0.00	5.85	0.06	0	0	0	100	0.00	0.0	7.878	0.005	0	0	0	1
PD.4227	PL.31006	C	20T	7.15Y	119.2	0.00	5.85	0.06	0	0	0	100	0.00	0.0	7.878	0.005	0	0	0	1
PL.31007	PD.4227	C	#4 ACSR	7.15Y	119.2	0.00	5.85	0.06	0	0	0	100	0.00	0.0	7.934	0.056	0	0	1	1
PL.30257	PL.30391	ABC	#1/0 ACSR	7.15Y	119.1	0.03	5.88	18.80	8	386	117	96	0.09	0.0	7.974	0.101	0	0	0	131
PL.30457	PL.30257	ABC	#1/0 ACSR	7.14Y	119.1	0.04	5.92	18.80	8	386	117	96	0.11	0.0	8.086	0.112	0	0	0	131
PL.31004	PL.30457	B	6 A (CWC)	7.14Y	119.1	0.01	5.93	3.58	3	25	7	96	0.00	0.0	8.154	0.068	0	0	0	8
PD.4226	PL.31004	B	20T	7.14Y	119.1	0.00	5.93	3.58	0	25	7	96	0.00	0.0	8.154	0.068	0	0	0	8
PL.31005	PD.4226	B	6 A (CWC)	7.14Y	119.1	0.01	5.94	3.58	3	25	7	96	0.00	0.0	8.186	0.033	0	0	0	8
PL.30794	PL.31005	B	6 A (CWC)	7.14Y	119.1	0.00	5.94	3.58	3	25	7	96	0.00	0.0	8.204	0.017	0	0	1	8
PL.30275	PL.30794	B	#4 ACSR	7.14Y	119.1	0.01	5.94	1.73	1	12	4	95	0.00	0.0	8.285	0.081	4	1	1	4
PL.30792	PL.30275	B	#4 ACSR	7.14Y	119.1	0.00	5.95	1.10	1	7	2	96	0.00	0.0	8.327	0.042	2	1	2	3
PL.30793	PL.30792	B	#4 ACSR	7.14Y	119.1	0.00	5.95	0.80	1	5	2	93	0.00	0.0	8.362	0.035	0	0	0	1
PL.30277	PL.30793	B	#1/0 ACSR	7.14Y	119.1	0.00	5.95	0.80	0	5	2	93	0.00	0.0	8.457	0.095	0	0	0	1
PL.30458	PL.30277	B	#1/0 ACSR	7.14Y	119.1	0.00	5.95	0.80	0	5	2	93	0.00	0.0	8.597	0.140	5	2	1	1
PL.30260	PL.30793	B	#4 ACSR	7.14Y	119.1	0.00	5.95	0.00	0	0	0	100	0.00	0.0	8.473	0.111	0	0	0	0

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Balanced Voltage Drop Report
Source: Sand Gap

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.30259	PL.30794	B	#1/0 ACSR	7.14Y	119.1	0.00	5.94	1.06	0	7	2	96	0.00	0.0	8.221	0.018	7	2	2	2
PL.30258	PL.30794	B	#4 ACSR	7.14Y	119.1	0.00	5.94	0.76	1	5	2	93	0.00	0.0	8.255	0.052	5	2	1	1
PL.30392	PL.30457	ABC	#1/0 ACSR	7.14Y	119.1	0.03	5.95	17.60	8	361	109	96	0.08	0.0	8.177	0.091	0	0	0	123
PL.30459	PL.30392	ABC	#1/0 ACSR	7.14Y	119.0	0.03	5.98	17.60	8	361	109	96	0.09	0.0	8.285	0.109	0	0	0	123
PL.30568	PL.30459	ABC	#1/0 ACSR	7.14Y	119.0	0.04	6.03	17.60	8	361	109	96	0.11	0.0	8.421	0.136	1	0	1	123
PL.30569	PL.30568	ABC	#1/0 ACSR	7.14Y	118.9	0.03	6.06	17.55	8	360	109	96	0.08	0.0	8.524	0.103	0	0	0	122
PL.30460	PL.30569	ABC	#1/0 ACSR	7.13Y	118.9	0.03	6.09	17.55	8	360	109	96	0.07	0.0	8.613	0.089	0	0	0	122
PL.30461	PL.30460	ABC	#1/0 ACSR	7.13Y	118.9	0.03	6.11	17.55	8	360	109	96	0.06	0.0	8.693	0.079	0	0	0	122
PL.30462	PL.30461	ABC	#1/0 ACSR	7.13Y	118.8	0.05	6.17	17.55	8	360	109	96	0.14	0.0	8.858	0.166	0	0	0	122
PL.31002	PL.30462	C	#1/0 ACSR	7.13Y	118.8	0.00	6.17	5.13	2	35	10	96	0.00	0.0	8.863	0.005	0	0	0	5
PD.4225	PL.31002	C	20T	7.13Y	118.8	0.00	6.17	5.13	0	35	10	96	0.00	0.0	8.863	0.005	0	0	0	5
PL.31003	PD.4225	C	#1/0 ACSR	7.13Y	118.8	0.00	6.17	5.13	2	35	10	96	0.00	0.0	8.873	0.010	22	7	3	5
PL.30292	PL.31003	C	#2 ACSR	7.13Y	118.8	0.00	6.17	1.92	1	13	4	96	0.00	0.0	8.903	0.030	13	4	2	2
PL.30393	PL.30462	ABC	#1/0 ACSR	7.13Y	118.8	0.05	6.22	15.84	7	324	98	96	0.11	0.0	9.027	0.169	2	1	1	117
PL.30264	PL.30393	C	#4 ACSR	7.13Y	118.8	0.00	6.22	1.87	1	13	4	96	0.00	0.0	9.032	0.005	0	0	0	4
PD.4224	PL.30264	C	20T	7.13Y	118.8	0.00	6.22	1.87	0	13	4	96	0.00	0.0	9.032	0.005	0	0	0	4
PL.30262	PD.4224	C	6 A (CWC)	7.13Y	118.8	0.01	6.22	1.84	1	13	4	96	0.00	0.0	9.114	0.083	0	0	0	3
PL.30790	PL.30262	C	#2 ACSR	7.13Y	118.8	0.00	6.22	1.84	1	13	4	96	0.00	0.0	9.142	0.028	1	0	2	3
PL.30791	PL.30790	C	#2 ACSR	7.13Y	118.8	0.00	6.23	1.66	1	11	3	96	0.00	0.0	9.225	0.082	11	3	1	1
PL.30394	PD.4224	C	#4 ACSR	7.13Y	118.8	0.00	6.22	0.03	0	0	0	100	0.00	0.0	9.122	0.090	0	0	1	1
PL.30395	PL.30393	ABC	#1/0 ACSR	7.13Y	118.8	0.02	6.24	15.11	7	309	93	96	0.05	0.0	9.102	0.075	0	0	0	112
PL.30526	PL.30395	ABC	#1/0 ACSR	7.12Y	118.7	0.04	6.28	15.11	7	309	93	96	0.10	0.0	9.263	0.161	0	0	0	112
PL.30833	PL.30526	ABC	#1/0 ACSR	7.12Y	118.7	0.02	6.30	14.95	7	306	92	96	0.04	0.0	9.338	0.075	2	1	1	109
PL.30834	PL.30833	ABC	#1/0 ACSR	7.12Y	118.7	0.01	6.31	14.87	6	304	92	96	0.02	0.0	9.367	0.029	0	0	0	108
PL.30829	PL.30834	ABC	#1/0 ACSR	7.12Y	118.7	0.02	6.33	14.87	6	304	92	96	0.05	0.0	9.455	0.089	3	1	1	108
PL.30830	PL.30829	ABC	#1/0 ACSR	7.12Y	118.6	0.02	6.35	14.71	6	301	91	96	0.04	0.0	9.522	0.067	0	0	0	107
PL.31018	PL.30830	C	6 A (CWC)	7.12Y	118.6	0.00	6.35	0.00	0	0	0	100	0.00	0.0	9.527	0.005	0	0	0	2
PD.4233	PL.31018	C	20T	7.12Y	118.6	0.00	6.35	0.00	0	0	0	100	0.00	0.0	9.527	0.005	0	0	0	2
PL.31019	PD.4233	C	6 A (CWC)	7.12Y	118.6	0.00	6.35	0.00	0	0	0	100	0.00	0.0	9.642	0.115	0	0	0	2
PL.30530	PL.31019	C	6 A (CWC)	7.12Y	118.6	0.00	6.35	0.00	0	0	0	100	0.00	0.0	9.810	0.168	0	0	0	2
PL.30531	PL.30530	C	6 A (CWC)	7.12Y	118.6	0.00	6.35	0.00	0	0	0	100	0.00	0.0	9.919	0.110	0	0	1	2

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Balanced Voltage Drop Report
Source: Sand Gap

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.30268	PL.30531	C	#1/0 ACSR	7.12Y	118.6	0.00	6.35	0.00	0	0	0	100	0.00	0.0	10.104	0.185	0	0	1	1
PL.65826	PL.30268	C	#1/0 ACSR	7.12Y	118.6	0.00	6.35	0.00	0	0	0	100	0.00	0.0	10.122	0.018	0	0	0	0
PL.65827	PL.65826	C	#1/0 ACSR	7.12Y	118.6	0.00	6.35	0.00	0	0	0	100	0.00	0.0	10.187	0.064	0	0	0	0
PL.65828	PL.65827	C	#1/0 ACSR	7.12Y	118.6	0.00	6.35	0.00	0	0	0	100	0.00	0.0	10.270	0.083	0	0	0	0
PL.30827	PL.30830	ABC	#1/0 ACSR	7.12Y	118.6	0.04	6.39	14.71	6	301	91	96	0.08	0.0	9.659	0.137	0	0	0	105
PL.30828	PL.30827	ABC	#1/0 ACSR	7.12Y	118.6	0.03	6.41	14.71	6	301	91	96	0.05	0.0	9.754	0.095	0	0	0	105
PL.30786	PL.30828	ABC	#1/0 ACSR	7.11Y	118.6	0.03	6.44	14.36	6	294	88	96	0.05	0.0	9.851	0.097	4	1	1	102
PL.30481	PL.30786	ABC	#1/0 ACSR	7.11Y	118.5	0.01	6.45	14.15	6	289	87	96	0.03	0.0	9.905	0.054	0	0	0	101
PD.4264-A	PL.30481	ABC	Closed	7.11Y	118.5	0.00	6.45	14.15	0	289	87	96	0.00	0.0	9.905	0.054	0	0	0	101
PD.4264-B	PD.4264-A	ABC	Closed	7.11Y	118.5	0.00	6.45	14.15	0	289	87	96	0.00	0.0	9.905	0.054	0	0	0	101
PL.30482	PD.4264-B	ABC	#1/0 ACSR	7.11Y	118.5	0.02	6.48	14.15	6	289	87	96	0.05	0.0	10.000	0.095	0	0	0	101
PL.30532	PL.30482	ABC	#1/0 ACSR	7.11Y	118.5	0.02	6.50	14.15	6	289	87	96	0.05	0.0	10.092	0.093	0	0	0	101
PL.30533	PL.30532	ABC	#1/0 ACSR	7.11Y	118.5	0.02	6.52	14.15	6	289	87	96	0.05	0.0	10.179	0.087	0	0	0	101
PL.30398	PL.30533	ABC	#1/0 ACSR	7.11Y	118.5	0.02	6.54	13.91	6	284	85	96	0.04	0.0	10.256	0.077	0	0	0	100
PL.30783	PL.30398	ABC	#1/0 ACSR	7.11Y	118.4	0.01	6.55	13.91	6	284	85	96	0.02	0.0	10.293	0.037	2	1	1	100
PL.30784	PL.30783	ABC	#1/0 ACSR	7.11Y	118.4	0.02	6.58	13.79	6	282	85	96	0.05	0.0	10.386	0.093	0	0	0	99
PL.30399	PL.30784	ABC	#1/0 ACSR	7.10Y	118.4	0.03	6.61	13.79	6	281	85	96	0.07	0.0	10.524	0.138	0	0	0	99
PL.30781	PL.30399	ABC	#1/0 ACSR	7.10Y	118.4	0.02	6.63	13.79	6	281	85	96	0.04	0.0	10.604	0.079	4	1	1	99
PL.30782	PL.30781	ABC	#1/0 ACSR	7.10Y	118.4	0.02	6.65	13.59	6	277	83	96	0.03	0.0	10.671	0.067	2	1	1	98
PL.30780	PL.30782	ABC	#1/0 ACSR	7.10Y	118.3	0.03	6.68	13.49	6	275	83	96	0.06	0.0	10.801	0.130	0	0	0	97
PL.30779	PL.30780	ABC	#1/0 ACSR	7.10Y	118.3	0.02	6.69	13.49	6	275	83	96	0.03	0.0	10.864	0.063	0	0	0	97
PL.30996	PL.30779	C	6 A (CWC)	7.10Y	118.3	0.00	6.69	1.02	1	7	2	96	0.00	0.0	10.868	0.005	0	0	0	5
PD.4221	PL.30996	C	20T	7.10Y	118.3	0.00	6.69	1.02	0	7	2	96	0.00	0.0	10.868	0.005	0	0	0	5
PL.30997	PD.4221	C	6 A (CWC)	7.10Y	118.3	0.00	6.70	1.02	1	7	2	96	0.00	0.0	10.921	0.053	7	2	3	5
PL.30778	PL.30997	C	6 A (CWC)	7.10Y	118.3	0.00	6.70	0.02	0	0	0	100	0.00	0.0	10.972	0.051	0	0	1	2
PL.30270	PL.30778	C	#1/0 ACSR	7.10Y	118.3	0.00	6.70	0.00	0	0	0	100	0.00	0.0	11.024	0.052	0	0	0	0
PL.30401	PL.30778	C	6 A (CWC)	7.10Y	118.3	0.00	6.70	0.01	0	0	0	100	0.00	0.0	11.108	0.136	0	0	0	1
PL.30534	PL.30401	C	6 A (CWC)	7.10Y	118.3	0.00	6.70	0.01	0	0	0	100	0.00	0.0	11.233	0.125	0	0	1	1
PL.30400	PL.30779	ABC	#1/0 ACSR	7.10Y	118.3	0.03	6.73	13.15	6	268	81	96	0.06	0.0	10.994	0.130	0	0	0	92
PL.30535	PL.30400	ABC	#1/0 ACSR	7.10Y	118.3	0.02	6.75	13.15	6	268	80	96	0.05	0.0	11.096	0.103	7	2	1	92
PL.30271	PL.30535	A	#4 ACSR	7.10Y	118.3	0.00	6.75	2.00	2	14	4	96	0.00	0.0	11.101	0.005	0	0	0	3

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Balanced Voltage Drop Report
Source: Sand Gap

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.4220	PL.30271	A	20T	7.10Y	118.3	0.00	6.75	2.00	0	14	4	96	0.00	0.0	11.101	0.005	0	0	0	3
PL.30403	PD.4220	A	#4 ACSR	7.09Y	118.2	0.00	6.75	1.63	1	11	3	96	0.00	0.0	11.221	0.121	11	3	2	2
PL.30272	PD.4220	A	#1/0 ACSR	7.09Y	118.2	0.00	6.75	0.37	0	3	1	95	0.00	0.0	11.196	0.095	3	1	1	1
PL.30402	PL.30535	ABC	#1/0 ACSR	7.09Y	118.2	0.03	6.78	12.15	5	248	74	96	0.06	0.0	11.239	0.142	5	2	1	88
PL.30994	PL.30402	C	#4 ACSR	7.09Y	118.2	0.00	6.78	0.00	0	0	0	100	0.00	0.0	11.243	0.005	0	0	0	1
PD.4219	PL.30994	C	20T	7.09Y	118.2	0.00	6.78	0.00	0	0	0	100	0.00	0.0	11.243	0.005	0	0	0	1
PL.30995	PD.4219	C	#4 ACSR	7.09Y	118.2	0.00	6.78	0.00	0	0	0	100	0.00	0.0	11.323	0.080	0	0	1	1
PL.30404	PL.30402	ABC	#1/0 ACSR	7.09Y	118.2	0.03	6.81	11.89	5	242	73	96	0.05	0.0	11.360	0.122	0	0	0	86
PL.30278	PL.30404	A	6 A (CWC)	7.09Y	118.2	0.00	6.81	0.65	0	4	1	97	0.00	0.0	11.365	0.005	0	0	0	2
PD.4218	PL.30278	A	20T	7.09Y	118.2	0.00	6.81	0.65	0	4	1	97	0.00	0.0	11.365	0.005	0	0	0	2
PL.30406	PD.4218	A	6 A (CWC)	7.09Y	118.2	0.00	6.81	0.00	0	0	0	100	0.00	0.0	11.428	0.063	0	0	0	0
PL.30295	PL.30406	A	#4 ACSR	7.09Y	118.2	0.00	6.81	0.00	0	0	0	100	0.00	0.0	11.529	0.101	0	0	0	0
PL.30563	PD.4218	A	#1/0 ACSR	7.09Y	118.2	0.00	6.81	0.65	0	4	1	97	0.00	0.0	11.473	0.108	0	0	1	2
PL.30777	PL.30563	A	#1/0 ACSR	7.09Y	118.2	0.00	6.81	0.64	0	4	1	97	0.00	0.0	11.544	0.071	4	1	1	1
PL.30405	PL.30404	ABC	#1/0 ACSR	7.09Y	118.2	0.02	6.82	11.67	5	238	71	96	0.03	0.0	11.437	0.077	0	0	0	84
PL.30323	PL.30405	ABC	#1/0 ACSR	7.09Y	118.1	0.03	6.85	11.67	5	238	71	96	0.05	0.0	11.583	0.146	1	0	1	84
PL.30775	PL.30323	ABC	#1/0 ACSR	7.09Y	118.1	0.03	6.88	11.32	5	231	69	96	0.04	0.0	11.710	0.127	0	0	0	80
REG83	PL.30775	ABC	76.2 KVA	7.51Y	125.2	-7.04	-0.16	11.32	11	231	69	96	percent Boost= 5.62 Tap= 9.0							80
PL.30776	REG83	ABC	#1/0 ACSR	7.51Y	125.2	0.01	-0.15	10.68	5	231	69	96	0.01	0.0	11.752	0.042	0	0	0	80
PL.30407	PL.30776	ABC	#1/0 ACSR	7.51Y	125.1	0.03	-0.12	10.62	5	229	69	96	0.05	0.0	11.914	0.162	1	0	2	79
PL.30988	PL.30407	C	6 A (CWC)	7.51Y	125.1	0.00	-0.12	0.00	0	0	0	100	0.00	0.0	11.919	0.005	0	0	0	0
PD.4215	PL.30988	C	20T	7.51Y	125.1	0.00	-0.12	0.00	0	0	0	100	0.00	0.0	11.919	0.005	0	0	0	0
PL.30989	PD.4215	C	6 A (CWC)	7.51Y	125.1	0.00	-0.12	0.00	0	0	0	100	0.00	0.0	12.121	0.203	0	0	0	0
PL.30408	PL.30407	ABC	#1/0 ACSR	7.51Y	125.1	0.02	-0.10	10.59	5	229	68	96	0.03	0.0	12.004	0.090	2	0	1	77
PL.30986	PL.30408	C	#4 ACSR	7.51Y	125.1	0.00	-0.10	0.63	0	5	1	98	0.00	0.0	12.009	0.005	0	0	0	5
PD.4214	PL.30986	C	20T	7.51Y	125.1	0.00	-0.10	0.63	0	5	1	98	0.00	0.0	12.009	0.005	0	0	0	5
PL.30987	PD.4214	C	#4 ACSR	7.51Y	125.1	0.00	-0.10	0.63	0	5	1	98	0.00	0.0	12.170	0.161	0	0	1	5
PL.30772	PL.30987	C	#4 ACSR	7.51Y	125.1	0.00	-0.10	0.56	0	4	1	97	0.00	0.0	12.288	0.118	3	1	1	3
PL.30773	PL.30772	C	#4 ACSR	7.51Y	125.1	0.00	-0.10	0.20	0	1	0	100	0.00	0.0	12.312	0.024	1	0	2	2
PL.30410	PL.30987	C	#4 ACSR	7.51Y	125.1	0.00	-0.10	0.07	0	0	0	100	0.00	0.0	12.334	0.165	0	0	0	1
PL.30536	PL.30410	C	#4 ACSR	7.51Y	125.1	0.00	-0.10	0.07	0	0	0	100	0.00	0.0	12.491	0.156	0	0	0	1

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Balanced Voltage Drop Report
Source: Sand Gap

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.30279	PL.30536	C	#4 ACSR	7.51Y	125.1	0.00	-0.10	0.07	0	0	0	100	0.00	0.0	12.551	0.060	0	0	1	1
PL.30411	PL.30536	C	#4 ACSR	7.51Y	125.1	0.00	-0.10	0.00	0	0	0	100	0.00	0.0	12.605	0.114	0	0	0	0
PL.30409	PL.30408	ABC	#1/0 ACSR	7.51Y	125.1	0.01	-0.09	10.31	4	222	67	96	0.02	0.0	12.072	0.068	13	4	1	71
PL.30412	PL.30409	ABC	#1/0 ACSR	7.50Y	125.1	0.02	-0.07	9.70	4	209	63	96	0.03	0.0	12.179	0.107	0	0	0	69
PL.30413	PL.30412	ABC	#1/0 ACSR	7.50Y	125.0	0.03	-0.04	8.48	4	183	55	96	0.04	0.0	12.367	0.188	0	0	0	64
PL.30980	PL.30413	A	#4 ACSR	7.50Y	125.0	0.00	-0.04	1.31	1	9	3	95	0.00	0.0	12.371	0.005	0	0	0	1
PD.4211	PL.30980	A	20T	7.50Y	125.0	0.00	-0.04	1.31	0	9	3	95	0.00	0.0	12.371	0.005	0	0	0	1
PL.30981	PD.4211	A	#4 ACSR	7.50Y	125.0	0.00	-0.04	1.31	1	9	3	95	0.00	0.0	12.420	0.048	9	3	1	1
PL.30766	PL.30413	ABC	#1/0 ACSR	7.50Y	125.0	0.01	-0.03	8.04	3	173	52	96	0.01	0.0	12.438	0.071	5	2	1	63
PL.30767	PL.30766	ABC	#1/0 ACSR	7.50Y	125.0	0.02	-0.02	7.81	3	168	50	96	0.02	0.0	12.549	0.110	4	1	1	62
PL.30765	PL.30767	ABC	#1/0 ACSR	7.50Y	125.0	0.01	-0.00	7.63	3	164	49	96	0.02	0.0	12.649	0.101	0	0	0	61
PL.30538	PL.30765	ABC	#1/0 ACSR	7.50Y	125.0	0.02	0.01	7.63	3	164	49	96	0.02	0.0	12.767	0.118	8	2	1	61
PL.30978	PL.30538	A	6 A (CWC)	7.50Y	125.0	0.00	0.01	0.43	0	3	1	95	0.00	0.0	12.772	0.005	0	0	0	4
PD.4210	PL.30978	A	20T	7.50Y	125.0	0.00	0.01	0.43	0	3	1	95	0.00	0.0	12.772	0.005	0	0	0	4
PL.30979	PD.4210	A	6 A (CWC)	7.50Y	125.0	0.00	0.01	0.43	0	3	1	95	0.00	0.0	12.820	0.048	1	0	2	4
PL.30764	PL.30979	A	6 A (CWC)	7.50Y	125.0	0.00	0.02	0.28	0	2	1	89	0.00	0.0	12.942	0.122	2	1	2	2
PL.30762	PL.30538	ABC	#1/0 ACSR	7.50Y	125.0	0.02	0.03	7.12	3	153	46	96	0.02	0.0	12.934	0.167	10	3	1	56
PL.30763	PL.30762	ABC	#1/0 ACSR	7.50Y	125.0	0.01	0.04	6.64	3	143	43	96	0.01	0.0	12.995	0.061	0	0	0	55
PL.30562	PL.30763	ABC	#1/0 ACSR	7.50Y	125.0	0.01	0.05	6.30	3	136	41	96	0.01	0.0	13.052	0.056	0	0	0	54
PL.30324	PL.30562	ABC	#1/0 ACSR	7.50Y	124.9	0.02	0.07	6.30	3	136	41	96	0.02	0.0	13.223	0.171	0	0	0	54
PL.30560	PL.30324	ABC	#1/0 ACSR	7.50Y	124.9	0.01	0.08	6.30	3	136	41	96	0.01	0.0	13.317	0.094	0	0	0	54
PL.30974	PL.30560	C	6 A (CWC)	7.50Y	124.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	13.321	0.005	0	0	0	0
PD.4208	PL.30974	C	20T	7.50Y	124.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	13.321	0.005	0	0	0	0
PL.30975	PD.4208	C	6 A (CWC)	7.50Y	124.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	13.381	0.060	0	0	0	0
PL.31064	PL.30560	A	6 A (CWC)	7.50Y	124.9	0.00	0.08	8.09	6	58	17	96	0.00	0.0	13.321	0.005	0	0	0	16
PD.4258	PL.31064	A	20T	7.50Y	124.9	0.00	0.08	8.09	0	58	17	96	0.00	0.0	13.321	0.005	0	0	0	16
PL.31065	PD.4258	A	6 A (CWC)	7.49Y	124.9	0.01	0.09	8.09	6	58	17	96	0.00	0.0	13.344	0.023	14	4	3	16
PL.30761	PL.31065	A	6 A (CWC)	7.49Y	124.9	0.02	0.10	6.17	4	44	13	96	0.01	0.0	13.402	0.058	2	1	1	13
PL.30760	PL.30761	A	6 A (CWC)	7.49Y	124.9	0.01	0.12	5.84	4	42	13	96	0.00	0.0	13.457	0.055	0	0	0	12
PL.30540	PL.30760	A	6 A (CWC)	7.49Y	124.8	0.05	0.17	5.84	4	42	13	96	0.02	0.0	13.644	0.187	0	0	0	12
PL.30564	PL.30540	A	#2 ACSR	7.49Y	124.8	0.03	0.19	5.84	3	42	13	96	0.01	0.0	13.784	0.140	0	0	0	12

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Balanced Voltage Drop Report
Source: Sand Gap

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.30854	PL.30564	A	#2 ACSR	7.49Y	124.8	0.00	0.20	1.17	1	8	3	94	0.00	0.0	13.851	0.066	0	0	1	3
PL.30855	PL.30854	A	#2 ACSR	7.49Y	124.8	0.00	0.20	1.16	1	8	2	97	0.00	0.0	13.882	0.031	8	2	1	2
PL.30856	PL.30855	A	#2 ACSR	7.49Y	124.8	0.00	0.20	0.01	0	0	0	100	0.00	0.0	13.926	0.044	0	0	1	1
PL.30281	PL.30564	A	6 A (CWC)	7.49Y	124.8	0.03	0.23	4.67	3	34	10	96	0.01	0.0	13.932	0.148	0	0	0	9
PL.30565	PL.30281	A	6 A (CWC)	7.48Y	124.7	0.04	0.27	4.67	3	33	10	96	0.01	0.0	14.120	0.187	0	0	0	9
PL.30857	PL.30565	A	6 A (CWC)	7.48Y	124.7	0.02	0.28	4.67	3	33	10	96	0.00	0.0	14.200	0.080	0	0	1	9
PL.30858	PL.30857	A	6 A (CWC)	7.48Y	124.7	0.03	0.31	4.67	3	33	10	96	0.01	0.0	14.317	0.117	0	0	0	8
PL.30298	PL.30858	A	6 A (CWC)	7.48Y	124.7	0.02	0.33	4.67	3	33	10	96	0.00	0.0	14.400	0.083	0	0	0	8
PL.30312	PL.30298	A	#4 ACSR	7.48Y	124.6	0.03	0.35	4.67	4	33	10	96	0.01	0.0	14.526	0.127	0	0	0	8
PL.30313	PL.30312	A	6 A (CWC)	7.48Y	124.6	0.00	0.35	0.00	0	0	0	100	0.00	0.0	14.649	0.123	0	0	0	0
PL.30566	PL.30312	A	#4 ACSR	7.48Y	124.6	0.01	0.36	4.67	4	33	10	96	0.00	0.0	14.554	0.028	0	0	0	8
PL.30567	PL.30566	A	#4 ACSR	7.48Y	124.6	0.03	0.39	4.67	4	33	10	96	0.01	0.0	14.723	0.169	7	2	2	8
PL.30861	PL.30567	A	#4 ACSR	7.48Y	124.6	0.00	0.39	0.79	1	6	2	95	0.00	0.0	14.795	0.072	0	0	0	1
PL.30862	PL.30861	A	#4 ACSR	7.48Y	124.6	0.00	0.40	0.79	1	6	2	95	0.00	0.0	14.926	0.131	0	0	0	1
PL.30541	PL.30862	A	#4 ACSR	7.48Y	124.6	0.00	0.40	0.79	1	6	2	95	0.00	0.0	15.024	0.098	6	2	1	1
PL.30864	PL.30567	A	6 A (CWC)	7.48Y	124.6	0.01	0.40	2.87	2	21	6	96	0.00	0.0	14.771	0.048	0	0	1	5
PL.30865	PL.30864	A	6 A (CWC)	7.48Y	124.6	0.01	0.41	2.85	2	20	6	96	0.00	0.0	14.839	0.069	0	0	0	4
PL.30863	PL.30865	A	6 A (CWC)	7.48Y	124.6	0.01	0.41	2.85	2	20	6	96	0.00	0.0	14.890	0.051	0	0	0	4
PL.30415	PL.30863	A	6 A (CWC)	7.48Y	124.6	0.00	0.41	0.63	0	5	1	98	0.00	0.0	14.944	0.053	0	0	0	2
PL.30416	PL.30415	A	6 A (CWC)	7.48Y	124.6	0.00	0.42	0.12	0	1	0	100	0.00	0.0	15.087	0.143	0	0	0	1
PL.30542	PL.30416	A	6 A (CWC)	7.48Y	124.6	0.00	0.42	0.12	0	1	0	100	0.00	0.0	15.200	0.113	0	0	0	1
PL.30317	PL.30542	A	#4 ACSR	7.48Y	124.6	0.00	0.42	0.12	0	1	0	100	0.00	0.0	15.265	0.065	0	0	0	1
PL.30543	PL.30317	A	#4 ACSR	7.47Y	124.6	0.00	0.42	0.12	0	1	0	100	0.00	0.0	15.395	0.130	0	0	0	1
PL.30544	PL.30543	A	#4 ACSR	7.47Y	124.6	0.00	0.42	0.12	0	1	0	100	0.00	0.0	15.506	0.111	1	0	1	1
PL.30315	PL.30415	A	#4 ACSR	7.48Y	124.6	0.00	0.42	0.51	0	4	1	97	0.00	0.0	15.017	0.073	4	1	1	1
PL.30316	PL.30863	A	#1/0 ACSR	7.48Y	124.6	0.00	0.41	2.22	1	16	5	95	0.00	0.0	14.932	0.042	16	5	2	2
PL.30297	PL.30565	A	#1/0 ACSR	7.48Y	124.7	0.00	0.27	0.00	0	0	0	100	0.00	0.0	14.170	0.051	0	0	0	0
PL.30282	PL.30540	A	6 A (CWC)	7.49Y	124.8	0.00	0.17	0.00	0	0	0	100	0.00	0.0	13.742	0.098	0	0	0	0
PL.30561	PL.30560	ABC	#1/0 ACSR	7.50Y	124.9	0.00	0.08	3.60	2	78	23	96	0.00	0.0	13.362	0.045	7	2	1	38
PL.30284	PL.30561	C	6 A (CWC)	7.49Y	124.9	0.00	0.08	9.79	7	70	21	96	0.00	0.0	13.367	0.005	0	0	0	37
PD.4236	PL.30284	C	20T	7.49Y	124.9	0.00	0.08	9.79	0	70	21	96	0.00	0.0	13.367	0.005	0	0	0	37

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: Sand Gap

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.30417	PD.4236	C	6 A (CWC)	7.49Y	124.9	0.04	0.13	9.55	7	69	21	96	0.02	0.0	13.461	0.095	0	0	0	36
PL.30286	PL.30417	C	6 A (CWC)	7.49Y	124.8	0.03	0.16	9.55	7	69	20	96	0.02	0.0	13.535	0.074	0	0	0	36
PL.30548	PL.30286	C	6 A (CWC)	7.49Y	124.8	0.03	0.19	9.55	7	69	20	96	0.01	0.0	13.598	0.063	0	0	0	36
PL.31020	PL.30548	C	#4 ACSR	7.49Y	124.8	0.00	0.19	8.51	7	61	18	96	0.00	0.0	13.602	0.005	0	0	0	35
PD.4235	PL.31020	C	12T	7.49Y	124.8	0.00	0.19	8.51	0	61	18	96	0.00	0.0	13.602	0.005	0	0	0	35
PL.31021	PD.4235	C	#4 ACSR	7.49Y	124.8	0.04	0.22	8.51	7	61	18	96	0.02	0.0	13.698	0.096	0	0	0	35
PL.30852	PL.31021	C	#4 ACSR	7.49Y	124.8	0.00	0.23	1.66	1	12	4	95	0.00	0.0	13.737	0.039	10	3	2	4
PL.30853	PL.30852	C	#4 ACSR	7.49Y	124.8	0.00	0.23	0.28	0	2	1	89	0.00	0.0	13.784	0.047	2	1	2	2
PL.30559	PL.31021	C	#4 ACSR	7.48Y	124.7	0.05	0.28	6.85	5	49	15	96	0.02	0.0	13.880	0.182	7	2	1	31
PL.30850	PL.30559	C	#4 ACSR	7.48Y	124.7	0.01	0.28	2.04	2	15	4	97	0.00	0.0	13.967	0.087	1	0	1	4
PL.30851	PL.30850	C	#4 ACSR	7.48Y	124.7	0.00	0.29	1.92	1	14	4	96	0.00	0.0	14.006	0.039	0	0	0	3
PL.30849	PL.30851	C	#4 ACSR	7.48Y	124.7	0.00	0.29	1.92	1	14	4	96	0.00	0.0	14.090	0.084	13	4	2	3
PL.30848	PL.30849	C	#4 ACSR	7.48Y	124.7	0.00	0.29	0.16	0	1	0	100	0.00	0.0	14.142	0.052	1	0	1	1
PL.30846	PL.30559	C	#4 ACSR	7.48Y	124.7	0.01	0.28	3.81	3	27	8	96	0.00	0.0	13.927	0.047	0	0	2	26
PL.30847	PL.30846	C	#4 ACSR	7.48Y	124.7	0.02	0.30	3.77	3	27	8	96	0.00	0.0	14.034	0.107	0	0	0	24
PL.30844	PL.30847	C	#4 ACSR	7.48Y	124.7	0.02	0.33	3.77	3	27	8	96	0.00	0.0	14.176	0.142	0	0	0	24
PL.30845	PL.30844	C	#4 ACSR	7.48Y	124.6	0.03	0.36	3.77	3	27	8	96	0.01	0.0	14.367	0.192	0	0	0	24
PL.30287	PL.30845	C	#4 ACSR	7.48Y	124.6	0.00	0.36	0.38	0	3	1	95	0.00	0.0	14.470	0.103	3	1	1	1
PL.30842	PL.30845	C	#4 ACSR	7.48Y	124.6	0.00	0.36	3.40	3	24	7	96	0.00	0.0	14.386	0.019	0	0	1	23
PL.30843	PL.30842	C	#4 ACSR	7.48Y	124.6	0.01	0.37	3.40	3	24	7	96	0.00	0.0	14.483	0.097	5	1	2	22
PL.30418	PL.30843	C	#4 ACSR	7.48Y	124.6	0.01	0.38	2.48	2	18	5	96	0.00	0.0	14.581	0.098	0	0	0	17
PL.30545	PL.30418	C	#4 ACSR	7.48Y	124.6	0.02	0.41	2.48	2	18	5	96	0.00	0.0	14.768	0.187	0	0	0	17
PL.30840	PL.30545	C	#4 ACSR	7.48Y	124.6	0.01	0.41	2.48	2	18	5	96	0.00	0.0	14.853	0.085	0	0	0	17
PL.30841	PL.30840	C	#4 ACSR	7.47Y	124.6	0.01	0.43	2.48	2	18	5	96	0.00	0.0	14.947	0.094	0	0	0	17
PL.30838	PL.30841	C	#4 ACSR	7.47Y	124.6	0.02	0.44	2.48	2	18	5	96	0.00	0.0	15.089	0.142	0	0	1	17
PL.30839	PL.30838	C	#4 ACSR	7.47Y	124.6	0.01	0.45	2.46	2	18	5	96	0.00	0.0	15.145	0.056	0	0	1	16
PL.30837	PL.30839	C	#4 ACSR	7.47Y	124.5	0.01	0.46	2.45	2	18	5	96	0.00	0.0	15.223	0.077	0	0	0	15
PL.30289	PL.30837	C	6 A (CWC)	7.47Y	124.5	0.00	0.46	2.45	2	18	5	96	0.00	0.0	15.242	0.020	1	0	1	15
PL.30555	PL.30289	C	6 A (CWC)	7.47Y	124.5	0.02	0.48	2.27	2	16	5	95	0.00	0.0	15.420	0.177	0	0	1	14
PL.30291	PL.30555	C	#4 ACSR	7.47Y	124.5	0.00	0.48	0.97	1	7	2	96	0.00	0.0	15.434	0.014	7	2	4	4
PL.30556	PL.30555	C	6 A (CWC)	7.47Y	124.5	0.01	0.48	1.30	1	9	3	95	0.00	0.0	15.546	0.127	0	0	0	9

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Balanced Voltage Drop Report
Source: Sand Gap

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.30303	PL.30556	C	#1/0 ACSR	7.47Y	124.5	0.00	0.48	0.05	0	0	0	100	0.00	0.0	15.579	0.033	0	0	2	2
PL.30302	PL.30556	C	#4 ACSR	7.47Y	124.5	0.00	0.49	1.25	1	9	3	95	0.00	0.0	15.603	0.056	0	0	1	7
PL.30835	PL.30302	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.93	1	7	2	96	0.00	0.0	15.639	0.036	5	1	1	3
PL.30836	PL.30835	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.29	0	2	1	89	0.00	0.0	15.755	0.116	0	0	0	2
PL.30419	PL.30836	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	15.827	0.072	0	0	1	1
PL.30301	PL.30836	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.29	0	2	1	89	0.00	0.0	15.819	0.064	2	1	1	1
PL.30557	PL.30302	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.28	0	2	1	89	0.00	0.0	15.749	0.146	0	0	0	3
PL.30305	PL.30557	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	15.889	0.140	0	0	0	1
PL.30546	PL.30305	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	15.989	0.100	0	0	1	1
PL.30304	PL.30557	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.14	0	1	0	100	0.00	0.0	15.843	0.094	1	0	1	1
PL.30558	PL.30557	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.13	0	1	0	100	0.00	0.0	15.758	0.009	0	0	0	1
PL.30551	PL.30558	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.13	0	1	0	100	0.00	0.0	15.758	0.000	0	0	0	1
PL.30552	PL.30551	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.13	0	1	0	100	0.00	0.0	15.759	0.000	1	0	1	1
PL.32608	PL.30552	C	#4 ACSR	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	15.763	0.004	0	0	0	0
PD.4153-B	PL.32608	C	Open	7.47Y	124.5	0.00	0.49	0.00	0	0	0	100	0.00	0.0	15.763	0.004	0	0	0	0
PL.30290	PL.30289	C	#4 ACSR	7.47Y	124.5	0.00	0.46	0.00	0	0	0	100	0.00	0.0	15.279	0.036	0	0	0	0
PL.30288	PL.30843	C	#4 ACSR	7.48Y	124.6	0.00	0.37	0.26	0	2	1	89	0.00	0.0	14.590	0.107	2	0	2	3
PL.30300	PL.30288	C	#1/0 ACSR	7.48Y	124.6	0.00	0.37	0.03	0	0	0	100	0.00	0.0	14.633	0.042	0	0	1	1
PL.30285	PL.30548	C	#4 ACSR	7.49Y	124.8	0.00	0.19	1.04	1	7	2	96	0.00	0.0	13.621	0.023	7	2	1	1
PL.30283	PD.4236	C	6 A (CWC)	7.49Y	124.9	0.00	0.08	0.23	0	2	1	89	0.00	0.0	13.454	0.087	2	1	1	1
PL.30976	PL.30763	A	6 A (CWC)	7.50Y	125.0	0.00	0.04	1.02	1	7	2	96	0.00	0.0	13.000	0.005	0	0	0	1
PD.4209	PL.30976	A	20T	7.50Y	125.0	0.00	0.04	1.02	0	7	2	96	0.00	0.0	13.000	0.005	0	0	0	1
PL.30977	PD.4209	A	6 A (CWC)	7.50Y	125.0	0.00	0.04	1.02	1	7	2	96	0.00	0.0	13.050	0.050	7	2	1	1
PL.30982	PL.30412	C	6 A (CWC)	7.50Y	125.1	0.00	-0.07	3.66	3	26	8	96	0.00	0.0	12.184	0.005	0	0	0	5
PD.4212	PL.30982	C	20T	7.50Y	125.1	0.00	-0.07	3.66	0	26	8	96	0.00	0.0	12.184	0.005	0	0	0	5
PL.30983	PD.4212	C	6 A (CWC)	7.50Y	125.0	0.04	-0.03	3.66	3	26	8	96	0.01	0.0	12.401	0.218	0	0	0	5
PL.30537	PL.30983	C	6 A (CWC)	7.50Y	125.0	0.01	-0.02	3.66	3	26	8	96	0.00	0.0	12.489	0.088	0	0	0	5
PL.30770	PL.30537	C	6 A (CWC)	7.50Y	125.0	0.02	0.01	3.66	3	26	8	96	0.00	0.0	12.652	0.163	5	1	1	5
PL.30771	PL.30770	C	6 A (CWC)	7.50Y	125.0	0.01	0.01	3.01	2	22	6	96	0.00	0.0	12.711	0.059	0	0	0	4
PL.30414	PL.30771	C	6 A (CWC)	7.50Y	125.0	0.01	0.02	1.65	1	12	4	95	0.00	0.0	12.846	0.135	0	0	0	3
PL.30768	PL.30414	C	6 A (CWC)	7.50Y	125.0	0.00	0.03	1.65	1	12	4	95	0.00	0.0	12.909	0.063	1	0	1	3

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Balanced Voltage Drop Report
Source: Sand Gap

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.30769	PL.30768	C	6 A (CWC)	7.50Y	125.0	0.00	0.03	1.50	1	11	3	96	0.00	0.0	12.982	0.074	3	1	1	2
PL.30296	PL.30769	C	#4 ACSR	7.50Y	125.0	0.00	0.04	1.13	1	8	2	97	0.00	0.0	13.105	0.123	8	2	1	1
PL.30280	PL.30771	C	#1/0 ACSR	7.50Y	125.0	0.00	0.01	1.36	1	10	3	96	0.00	0.0	12.769	0.058	10	3	1	1
PL.30984	PL.30409	A	6 A (CWC)	7.51Y	125.1	0.00	-0.09	0.00	0	0	0	100	0.00	0.0	12.076	0.005	0	0	0	1
PD.4213	PL.30984	A	20T	7.51Y	125.1	0.00	-0.09	0.00	0	0	0	100	0.00	0.0	12.076	0.005	0	0	0	1
PL.30985	PD.4213	A	6 A (CWC)	7.51Y	125.1	0.00	-0.09	0.00	0	0	0	100	0.00	0.0	12.166	0.090	0	0	1	1
PL.30990	PL.30776	C	6 A (CWC)	7.51Y	125.2	0.00	-0.15	0.19	0	1	0	100	0.00	0.0	11.757	0.005	0	0	0	1
PD.4216	PL.30990	C	20T	7.51Y	125.2	0.00	-0.15	0.19	0	1	0	100	0.00	0.0	11.757	0.005	0	0	0	1
PL.30991	PD.4216	C	6 A (CWC)	7.51Y	125.2	0.00	-0.15	0.19	0	1	0	100	0.00	0.0	11.780	0.023	1	0	1	1
PL.30774	PL.30991	C	6 A (CWC)	7.51Y	125.2	0.00	-0.15	0.00	0	0	0	100	0.00	0.0	11.892	0.112	0	0	0	0
PL.30992	PL.30323	A	#4 ACSR	7.09Y	118.1	0.00	6.85	0.86	1	6	2	95	0.00	0.0	11.588	0.005	0	0	0	3
PD.4217	PL.30992	A	20T	7.09Y	118.1	0.00	6.85	0.86	0	6	2	95	0.00	0.0	11.588	0.005	0	0	0	3
PL.30993	PD.4217	A	#4 ACSR	7.09Y	118.1	0.00	6.86	0.86	1	6	2	95	0.00	0.0	11.651	0.063	3	1	1	3
PL.30859	PL.30993	A	#4 ACSR	7.09Y	118.1	0.00	6.86	0.42	0	3	1	95	0.00	0.0	11.759	0.108	3	1	1	2
PL.30860	PL.30859	A	#4 ACSR	7.09Y	118.1	0.00	6.86	0.01	0	0	0	100	0.00	0.0	11.782	0.024	0	0	1	1
PL.30269	PL.30784	C	6 A (CWC)	7.11Y	118.4	0.00	6.58	0.00	0	0	0	100	0.00	0.0	10.515	0.129	0	0	0	0
PL.30998	PL.30533	A	#4 ACSR	7.11Y	118.5	0.00	6.52	0.71	1	5	1	98	0.00	0.0	10.184	0.005	0	0	0	1
PD.4222	PL.30998	A	20T	7.11Y	118.5	0.00	6.52	0.71	0	5	1	98	0.00	0.0	10.184	0.005	0	0	0	1
PL.30999	PD.4222	A	#4 ACSR	7.11Y	118.5	0.00	6.52	0.71	1	5	1	98	0.00	0.0	10.201	0.017	0	0	0	1
PL.30785	PL.30999	A	#4 ACSR	7.11Y	118.5	0.00	6.53	0.71	1	5	1	98	0.00	0.0	10.318	0.117	5	1	1	1
PL.30294	PL.30785	A	#2 ACSR	7.11Y	118.5	0.00	6.53	0.00	0	0	0	100	0.00	0.0	10.371	0.054	0	0	0	0
PL.31000	PL.30828	C	#4 ACSR	7.12Y	118.6	0.00	6.41	1.03	1	7	2	96	0.00	0.0	9.759	0.005	0	0	0	3
PD.4223	PL.31000	C	20T	7.12Y	118.6	0.00	6.41	1.03	0	7	2	96	0.00	0.0	9.759	0.005	0	0	0	3
PL.31001	PD.4223	C	#4 ACSR	7.11Y	118.6	0.01	6.42	1.03	1	7	2	96	0.00	0.0	9.876	0.117	0	0	0	3
PL.30788	PL.31001	C	#4 ACSR	7.11Y	118.6	0.00	6.42	1.03	1	7	2	96	0.00	0.0	9.970	0.095	2	1	1	3
PL.30789	PL.30788	C	#4 ACSR	7.11Y	118.6	0.00	6.42	0.77	1	5	2	93	0.00	0.0	10.014	0.044	5	1	1	2
PL.30787	PL.30789	C	#4 ACSR	7.11Y	118.6	0.00	6.42	0.07	0	0	0	100	0.00	0.0	10.097	0.083	0	0	1	1
PL.30266	PL.30526	C	6 A (CWC)	7.12Y	118.7	0.00	6.28	0.47	0	3	1	95	0.00	0.0	9.267	0.005	0	0	0	3
PD.4234	PL.30266	C	20T	7.12Y	118.7	0.00	6.28	0.47	0	3	1	95	0.00	0.0	9.267	0.005	0	0	0	3
PL.30396	PD.4234	C	6 A (CWC)	7.12Y	118.7	0.00	6.28	0.47	0	3	1	95	0.00	0.0	9.411	0.143	0	0	0	3
PL.30527	PL.30396	C	6 A (CWC)	7.12Y	118.7	0.00	6.29	0.47	0	3	1	95	0.00	0.0	9.540	0.130	0	0	0	3

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Balanced Voltage Drop Report
Source: Sand Gap

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.30528	PL.30527	C	6 A (CWC)	7.12Y	118.7	0.00	6.29	0.47	0	3	1	95	0.00	0.0	9.646	0.105	0	0	0	3
PL.30322	PL.30528	C	6 A (CWC)	7.12Y	118.7	0.00	6.29	0.47	0	3	1	95	0.00	0.0	9.823	0.178	0	0	0	3
PL.30831	PL.30322	C	6 A (CWC)	7.12Y	118.7	0.00	6.29	0.47	0	3	1	95	0.00	0.0	9.900	0.077	3	1	1	3
PL.30832	PL.30831	C	6 A (CWC)	7.12Y	118.7	0.00	6.29	0.01	0	0	0	100	0.00	0.0	9.991	0.091	0	0	0	2
PL.30267	PL.30832	C	6 A (CWC)	7.12Y	118.7	0.00	6.29	0.00	0	0	0	100	0.00	0.0	10.204	0.213	0	0	1	1
PL.30397	PL.30832	C	6 A (CWC)	7.12Y	118.7	0.00	6.29	0.00	0	0	0	100	0.00	0.0	10.106	0.115	0	0	1	1
PL.30265	PD.4234	C	#2 ACSR	7.12Y	118.7	0.00	6.28	0.00	0	0	0	100	0.00	0.0	9.424	0.156	0	0	0	0
PL.31008	PL.30390	C	#4 ACSR	7.15Y	119.2	0.00	5.79	0.73	1	5	1	98	0.00	0.0	7.726	0.005	0	0	0	1
PD.4228	PL.31008	C	20T	7.15Y	119.2	0.00	5.79	0.73	0	5	1	98	0.00	0.0	7.726	0.005	0	0	0	1
PL.31009	PD.4228	C	#4 ACSR	7.15Y	119.2	0.00	5.80	0.73	1	5	1	98	0.00	0.0	7.788	0.062	5	1	1	1
PL.31010	PL.30570	B	#4 ACSR	7.16Y	119.3	0.00	5.75	1.02	1	7	2	96	0.00	0.0	7.594	0.005	0	0	0	1
PD.4229	PL.31010	B	20T	7.16Y	119.3	0.00	5.75	1.02	0	7	2	96	0.00	0.0	7.594	0.005	0	0	0	1
PL.31011	PD.4229	B	#4 ACSR	7.16Y	119.3	0.00	5.75	1.02	1	7	2	96	0.00	0.0	7.618	0.024	7	2	1	1
PL.31022	PL.30494	A	#1/0 ACSR	7.16Y	119.3	0.00	5.72	2.45	1	17	5	96	0.00	0.0	7.510	0.005	0	0	0	2
PD.4237	PL.31022	A	20T	7.16Y	119.3	0.00	5.72	2.45	0	17	5	96	0.00	0.0	7.510	0.005	0	0	0	2
PL.31023	PD.4237	A	#1/0 ACSR	7.16Y	119.3	0.00	5.72	2.45	1	17	5	96	0.00	0.0	7.531	0.021	9	3	1	2
PL.30795	PL.31023	A	#1/0 ACSR	7.16Y	119.3	0.00	5.72	1.16	1	8	2	97	0.00	0.0	7.563	0.033	8	2	1	1
PL.31062	PL.30388	C	6 A (CWC)	7.17Y	119.4	0.00	5.57	1.68	1	12	3	97	0.00	0.0	7.123	0.005	0	0	0	6
PD.4257	PL.31062	C	65T	7.17Y	119.4	0.00	5.57	1.68	0	12	3	97	0.00	0.0	7.123	0.005	0	0	0	6
PL.31063	PD.4257	C	6 A (CWC)	7.17Y	119.4	0.00	5.57	1.68	1	12	3	97	0.00	0.0	7.156	0.033	4	1	1	6
PL.30802	PL.31063	C	6 A (CWC)	7.17Y	119.4	0.01	5.58	1.15	1	8	2	97	0.00	0.0	7.306	0.150	0	0	0	5
PL.31012	PL.30802	C	#1/0 ACSR	7.17Y	119.4	0.00	5.58	0.08	0	1	0	100	0.00	0.0	7.310	0.005	0	0	0	1
PD.4230	PL.31012	C	40T	7.17Y	119.4	0.00	5.58	0.08	0	1	0	100	0.00	0.0	7.310	0.005	0	0	0	1
PL.31013	PD.4230	C	#1/0 ACSR	7.17Y	119.4	0.00	5.58	0.08	0	1	0	100	0.00	0.0	7.458	0.148	1	0	1	1
PL.30389	PL.30802	C	6 A (CWC)	7.16Y	119.4	0.01	5.59	1.07	1	7	2	96	0.00	0.0	7.418	0.113	0	0	0	4
PL.30454	PL.30389	C	6 A (CWC)	7.16Y	119.4	0.01	5.59	1.07	1	7	2	96	0.00	0.0	7.581	0.163	0	0	0	4
PL.30455	PL.30454	C	6 A (CWC)	7.16Y	119.4	0.00	5.60	1.07	1	7	2	96	0.00	0.0	7.643	0.062	0	0	0	4
PL.30274	PL.30455	C	#1/0 ACSR	7.16Y	119.4	0.00	5.60	1.07	0	7	2	96	0.00	0.0	7.781	0.138	0	0	0	4
PL.30456	PL.30274	C	#1/0 ACSR	7.16Y	119.4	0.00	5.60	1.07	0	7	2	96	0.00	0.0	7.922	0.140	0	0	0	4
PL.30800	PL.30456	C	#1/0 ACSR	7.16Y	119.4	0.00	5.61	1.07	0	7	2	96	0.00	0.0	8.092	0.171	7	2	1	4
PL.30801	PL.30800	C	#1/0 ACSR	7.16Y	119.4	0.00	5.61	0.08	0	1	0	100	0.00	0.0	8.190	0.097	1	0	3	3

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

Balanced Voltage Drop Report
Source: Sand Gap

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.31060	PL.30799	C	#4 ACSR	7.17Y	119.4	0.00	5.56	1.13	1	8	2	97	0.00	0.0	7.080	0.004	0	0	0	1
PD.4256	PL.31060	C	65T	7.17Y	119.4	0.00	5.56	1.13	0	8	2	97	0.00	0.0	7.080	0.004	0	0	0	1
PL.31061	PD.4256	C	#4 ACSR	7.17Y	119.4	0.00	5.57	1.13	1	8	2	97	0.00	0.0	7.184	0.104	8	2	1	1
PL.31058	PL.30571	A	#4 ACSR	7.17Y	119.5	0.00	5.54	0.00	0	0	0	100	0.00	0.0	6.968	0.005	0	0	0	0
PD.4255	PL.31058	A	65T	7.17Y	119.5	0.00	5.54	0.00	0	0	0	100	0.00	0.0	6.968	0.005	0	0	0	0
PL.31059	PD.4255	A	#4 ACSR	7.17Y	119.5	0.00	5.54	0.00	0	0	0	100	0.00	0.0	6.977	0.009	0	0	0	0
PL.30210	PL.31057	C	#4 ACSR	7.17Y	119.5	0.00	5.53	0.39	0	3	1	95	0.00	0.0	6.893	0.021	3	1	3	3
PL.31054	PL.30806	A	#4 ACSR	7.17Y	119.5	0.00	5.51	1.76	1	12	4	95	0.00	0.0	6.768	0.005	0	0	0	2
PD.4254	PL.31054	A	65T	7.17Y	119.5	0.00	5.51	1.76	0	12	4	95	0.00	0.0	6.768	0.005	0	0	0	2
PL.31055	PD.4254	A	#4 ACSR	7.17Y	119.5	0.00	5.51	1.76	1	12	4	95	0.00	0.0	6.790	0.023	3	1	1	2
PL.30209	PL.31055	A	#4 ACSR	7.17Y	119.5	0.00	5.51	1.38	1	9	3	95	0.00	0.0	6.849	0.058	9	3	1	1
PL.30487	PL.30490	C	#4 ACSR	7.17Y	119.5	0.00	5.46	38.34	29	263	80	96	0.01	0.0	6.551	0.003	0	0	0	58
PD.4267	PL.30487	C	70L	7.17Y	119.5	0.00	5.46	38.34	55	263	80	96	0.00	0.0	6.551	0.003	0	0	0	58
PL.30488	PD.4267	C	#4 ACSR	7.17Y	119.4	0.09	5.55	38.34	29	263	80	96	0.18	0.1	6.606	0.055	18	5	3	58
PL.30578	PL.30488	C	#1/0 ACSR	7.16Y	119.3	0.15	5.71	35.70	16	245	74	96	0.25	0.1	6.788	0.182	0	0	0	55
PL.30248	PL.30578	C	#1/0 ACSR	7.16Y	119.3	0.00	5.71	0.97	0	7	2	96	0.00	0.0	6.821	0.033	7	2	1	1
PL.30579	PL.30578	C	#1/0 ACSR	7.15Y	119.2	0.12	5.83	34.73	15	238	72	96	0.19	0.1	6.946	0.157	16	5	2	54
PL.30273	PL.30579	C	#4 ACSR	7.14Y	119.0	0.16	5.99	32.44	25	222	67	96	0.28	0.1	7.057	0.111	0	0	0	52
PL.30438	PL.30273	C	#4 ACSR	7.13Y	118.8	0.23	6.23	32.44	25	222	67	96	0.40	0.2	7.217	0.160	0	0	0	52
PL.30439	PL.30438	C	#4 ACSR	7.12Y	118.6	0.15	6.38	32.44	25	221	66	96	0.27	0.1	7.323	0.106	0	0	0	52
PL.30420	PL.30439	C	#4 ACSR	7.12Y	118.6	0.03	6.41	32.44	25	221	66	96	0.05	0.0	7.343	0.020	0	0	0	52
PL.30249	PL.30420	C	#2 ACSR	7.12Y	118.6	0.00	6.41	2.24	1	15	5	95	0.00	0.0	7.396	0.053	15	5	2	2
PL.30373	PL.30420	C	#4 ACSR	7.11Y	118.4	0.16	6.56	30.20	23	206	62	96	0.25	0.1	7.460	0.117	5	1	2	50
PL.30250	PL.30373	C	#1/0 ACSR	7.10Y	118.4	0.02	6.59	28.21	12	192	58	96	0.03	0.0	7.493	0.033	6	2	2	45
PL.30252	PL.30250	C	#2 ACSR	7.10Y	118.4	0.00	6.59	2.92	2	20	6	96	0.00	0.0	7.523	0.031	20	6	7	7
PL.30701	PL.30250	C	#1/0 ACSR	7.10Y	118.3	0.07	6.65	23.08	10	157	47	96	0.07	0.0	7.617	0.125	12	4	4	34
PL.30702	PL.30701	C	#1/0 ACSR	7.10Y	118.3	0.04	6.69	21.34	9	145	43	96	0.04	0.0	7.707	0.090	19	6	4	30
PL.30703	PL.30702	C	#1/0 ACSR	7.09Y	118.2	0.08	6.77	18.59	8	126	38	96	0.06	0.1	7.879	0.172	0	0	0	26
PL.30704	PL.30703	C	#4 ACSR	7.09Y	118.2	0.02	6.78	5.72	4	39	12	96	0.00	0.0	7.981	0.103	30	9	5	7
PL.30705	PL.30704	C	#4 ACSR	7.09Y	118.2	0.00	6.79	1.24	1	8	3	94	0.00	0.0	8.063	0.082	8	3	2	2
PL.30706	PL.30703	C	#2 ACSR	7.09Y	118.2	0.00	6.77	5.63	3	38	11	96	0.00	0.0	7.911	0.032	12	4	2	7

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

Balanced Voltage Drop Report
Source: Sand Gap

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.30707	PL.30706	C	#2 ACSR	7.09Y	118.2	0.01	6.78	3.82	2	26	8	96	0.00	0.0	7.999	0.088	17	5	3	5
PL.30708	PL.30707	C	#2 ACSR	7.09Y	118.2	0.00	6.78	1.32	1	9	3	95	0.00	0.0	8.026	0.027	9	3	2	2
PL.30374	PL.30703	C	#1/0 ACSR	7.09Y	118.2	0.01	6.78	7.24	3	49	15	96	0.00	0.0	7.934	0.055	0	0	1	12
PL.30709	PL.30374	C	#1/0 ACSR	7.09Y	118.2	0.01	6.79	5.95	3	40	12	96	0.00	0.0	8.012	0.079	0	0	1	9
PL.30710	PL.30709	C	#1/0 ACSR	7.09Y	118.2	0.00	6.79	5.92	3	40	12	96	0.00	0.0	8.039	0.027	8	2	2	8
PL.30256	PL.30710	C	#4 ACSR	7.09Y	118.2	0.00	6.80	0.70	1	5	1	98	0.00	0.0	8.180	0.141	0	0	0	1
PL.30699	PL.30256	C	#4 ACSR	7.09Y	118.2	0.00	6.80	0.70	1	5	1	98	0.00	0.0	8.229	0.049	5	1	1	1
PL.30700	PL.30699	C	#4 ACSR	7.09Y	118.2	0.00	6.80	0.00	0	0	0	100	0.00	0.0	8.318	0.088	0	0	0	0
PL.30711	PL.30710	C	#1/0 ACSR	7.09Y	118.2	0.01	6.80	4.10	2	28	8	96	0.00	0.0	8.095	0.056	0	0	0	5
PL.30712	PL.30711	C	#1/0 ACSR	7.09Y	118.2	0.01	6.81	4.10	2	28	8	96	0.00	0.0	8.178	0.083	0	0	0	5
PL.30713	PL.30712	C	#1/0 ACSR	7.09Y	118.2	0.00	6.81	4.10	2	28	8	96	0.00	0.0	8.252	0.074	28	8	4	5
PL.30375	PL.30713	C	#1/0 ACSR	7.09Y	118.2	0.00	6.81	0.00	0	0	0	100	0.00	0.0	8.417	0.165	0	0	1	1
PL.30254	PL.30713	C	#4 ACSR	7.09Y	118.2	0.00	6.81	0.00	0	0	0	100	0.00	0.0	8.370	0.118	0	0	0	0
PL.30255	PL.30374	C	#4 ACSR	7.09Y	118.2	0.00	6.78	1.27	1	9	3	95	0.00	0.0	7.985	0.051	9	3	2	2
PL.30253	PL.30250	C	#4 ACSR	7.10Y	118.4	0.00	6.59	1.35	1	9	3	95	0.00	0.0	7.540	0.048	9	3	2	2
PL.30251	PL.30373	C	#2 ACSR	7.11Y	118.4	0.00	6.57	1.33	1	9	3	95	0.00	0.0	7.484	0.024	9	3	3	3
PL.30892	PL.30584	C	#4 ACSR	7.21Y	120.2	0.00	4.76	1.25	1	9	3	95	0.00	0.0	5.283	0.005	0	0	0	1
PD.4167	PL.30892	C	65T	7.21Y	120.2	0.00	4.76	1.25	0	9	3	95	0.00	0.0	5.283	0.005	0	0	0	1
PL.30893	PD.4167	C	#4 ACSR	7.21Y	120.2	0.00	4.77	1.25	1	9	3	95	0.00	0.0	5.411	0.128	9	3	1	1
PL.31044	PL.30583	A	#4 ACSR	7.22Y	120.3	0.00	4.66	0.14	0	1	0	100	0.00	0.0	5.133	0.005	0	0	0	1
PD.4249	PL.31044	A	65T	7.22Y	120.3	0.00	4.66	0.14	0	1	0	100	0.00	0.0	5.133	0.005	0	0	0	1
PL.31045	PD.4249	A	#4 ACSR	7.22Y	120.3	0.00	4.66	0.14	0	1	0	100	0.00	0.0	5.183	0.050	1	0	1	1
PL.30904	PL.30692	C	#2 ACSR	7.23Y	120.5	0.00	4.54	13.21	8	91	27	96	0.00	0.0	4.961	0.005	0	0	0	19
PD.4173	PL.30904	C	80T	7.23Y	120.5	0.00	4.54	13.21	0	91	27	96	0.00	0.0	4.961	0.005	0	0	0	19
PL.30905	PD.4173	C	#2 ACSR	7.23Y	120.4	0.01	4.56	13.21	8	91	27	96	0.01	0.0	4.991	0.030	4	1	1	19
PL.30684	PL.30905	C	#2 ACSR	7.23Y	120.4	0.02	4.57	12.56	7	87	26	96	0.01	0.0	5.032	0.041	6	2	1	18
PL.30362	PL.30684	C	#2 ACSR	7.22Y	120.4	0.02	4.59	7.46	4	52	15	96	0.01	0.0	5.097	0.064	0	0	0	12
PL.30364	PL.30362	C	#2 ACSR	7.22Y	120.4	0.02	4.60	6.70	4	46	14	96	0.01	0.0	5.171	0.074	0	0	1	11
PL.30184	PL.30364	C	#2 ACSR	7.22Y	120.4	0.01	4.61	6.64	4	46	14	96	0.00	0.0	5.208	0.037	0	0	0	10
PL.30685	PL.30184	C	#2 ACSR	7.22Y	120.4	0.01	4.62	4.46	3	31	9	96	0.00	0.0	5.247	0.039	3	1	1	7
PL.30686	PL.30685	C	#2 ACSR	7.22Y	120.4	0.00	4.62	4.02	2	28	8	96	0.00	0.0	5.286	0.040	20	6	3	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: Sand Gap

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.30687	PL.30686	C	#2 ACSR	7.22Y	120.4	0.00	4.62	1.08	1	7	2	96	0.00	0.0	5.345	0.058	0	0	1	3
PL.30365	PL.30687	C	#2 ACSR	7.22Y	120.4	0.00	4.62	1.08	1	7	2	96	0.00	0.0	5.372	0.027	7	2	1	1
PL.30908	PL.30687	C	#4 ACSR	7.22Y	120.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	5.349	0.005	0	0	0	1
PD.4175	PL.30908	C	40T	7.22Y	120.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	5.349	0.005	0	0	0	1
PL.30909	PD.4175	C	#4 ACSR	7.22Y	120.4	0.00	4.62	0.00	0	0	0	100	0.00	0.0	5.498	0.148	0	0	1	1
PL.30193	PL.30184	C	#1/0 ACSR	7.22Y	120.4	0.00	4.61	2.18	1	15	4	97	0.00	0.0	5.310	0.102	11	3	1	3
PL.30195	PL.30193	C	#1/0 ACSR	7.22Y	120.4	0.00	4.61	0.40	0	3	1	95	0.00	0.0	5.353	0.043	3	1	1	1
PL.30194	PL.30193	C	#1/0 ACSR	7.22Y	120.4	0.00	4.61	0.20	0	1	0	100	0.00	0.0	5.401	0.091	1	0	1	1
PL.30186	PL.30362	C	#4 ACSR	7.22Y	120.4	0.00	4.59	0.76	1	5	2	93	0.00	0.0	5.173	0.076	5	2	1	1
PL.30185	PL.30684	C	#4 ACSR	7.22Y	120.4	0.02	4.59	4.30	3	30	9	96	0.00	0.0	5.125	0.093	0	0	0	5
PL.30188	PL.30185	C	#4 ACSR	7.22Y	120.4	0.01	4.60	3.30	3	23	7	96	0.00	0.0	5.174	0.048	0	0	0	4
PL.30189	PL.30188	C	#4 ACSR	7.22Y	120.4	0.00	4.60	3.30	3	23	7	96	0.00	0.0	5.201	0.028	12	4	3	4
PL.30197	PL.30189	C	#2 ACSR	7.22Y	120.4	0.00	4.60	0.00	0	0	0	100	0.00	0.0	5.276	0.074	0	0	0	0
PL.30190	PL.30189	C	#4 ACSR	7.22Y	120.4	0.00	4.60	1.57	1	11	3	96	0.00	0.0	5.237	0.036	11	3	1	1
PL.30311	PL.30185	C	#4 ACSR	7.22Y	120.4	0.00	4.59	1.00	1	7	2	96	0.00	0.0	5.157	0.031	7	2	1	1
PL.30906	PL.30690	C	6 A (CWC)	7.24Y	120.7	0.00	4.33	5.61	4	39	12	96	0.00	0.0	4.658	0.005	0	0	0	7
PD.4174	PL.30906	C	65T	7.24Y	120.7	0.00	4.33	5.61	0	39	12	96	0.00	0.0	4.658	0.005	0	0	0	7
PL.30907	PD.4174	C	6 A (CWC)	7.24Y	120.6	0.03	4.36	5.61	4	39	12	96	0.01	0.0	4.780	0.122	0	0	0	7
PL.30160	PL.30907	C	#2 ACSR	7.24Y	120.6	0.00	4.36	0.00	0	0	0	100	0.00	0.0	4.876	0.096	0	0	0	0
PL.30582	PL.30907	C	6 A (CWC)	7.24Y	120.6	0.00	4.36	3.48	2	24	7	96	0.00	0.0	4.800	0.020	11	3	1	4
PL.30161	PL.30582	C	6 A (CWC)	7.24Y	120.6	0.01	4.37	1.91	1	13	4	96	0.00	0.0	4.914	0.114	4	1	2	3
PL.30196	PL.30161	C	#1/0 ACSR	7.24Y	120.6	0.00	4.37	1.39	1	10	3	96	0.00	0.0	4.947	0.033	10	3	1	1
PL.30162	PL.30907	C	#2 ACSR	7.24Y	120.6	0.00	4.36	2.13	1	15	4	97	0.00	0.0	4.835	0.055	15	4	3	3
PL.30928	PL.30586	C	#2 ACSR	7.25Y	120.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	4.337	0.004	0	0	0	0
PD.4185	PL.30928	C	65T	7.25Y	120.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	4.337	0.004	0	0	0	0
PL.30929	PD.4185	C	#2 ACSR	7.25Y	120.9	0.00	4.09	0.00	0	0	0	100	0.00	0.0	4.381	0.044	0	0	0	0
PL.30932	PL.30721	A	6 A (CWC)	7.26Y	121.0	0.00	3.99	3.00	2	21	6	96	0.00	0.0	4.213	0.004	0	0	0	4
PD.4187	PL.30932	A	65T	7.26Y	121.0	0.00	3.99	3.00	0	21	6	96	0.00	0.0	4.213	0.004	0	0	0	4
PL.30933	PD.4187	A	6 A (CWC)	7.26Y	121.0	0.01	4.01	3.00	2	21	6	96	0.00	0.0	4.320	0.106	0	0	0	4
PL.30585	PL.30933	A	6 A (CWC)	7.26Y	121.0	0.00	4.01	2.22	2	15	5	95	0.00	0.0	4.345	0.026	6	2	1	3
PL.30171	PL.30585	A	#1/0 ACSR	7.26Y	121.0	0.00	4.01	0.01	0	0	0	100	0.00	0.0	4.381	0.036	0	0	1	1

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

Balanced Voltage Drop Report
Source: Sand Gap

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.30159	PL.30585	A	#4 ACSR	7.26Y	121.0	0.00	4.01	1.42	1	10	3	96	0.00	0.0	4.396	0.050	10	3	1	1
PL.30158	PL.30933	A	#2 ACSR	7.26Y	121.0	0.00	4.01	0.78	0	5	2	93	0.00	0.0	4.424	0.104	5	2	1	1
CP.45	PL.30497	ABC	Cap (300)	7.27Y	121.1	0.00	3.88	0.00	0	0	0	100	0.00	0.0	4.066	0.104	0	0	0	0
PL.30934	PL.30496	A	#1/0 ACSR	7.27Y	121.1	0.00	3.85	1.74	1	12	4	95	0.00	0.0	4.028	0.005	0	0	0	1
PD.4188	PL.30934	A	65T	7.27Y	121.1	0.00	3.85	1.74	0	12	4	95	0.00	0.0	4.028	0.005	0	0	0	1
PL.30935	PD.4188	A	#1/0 ACSR	7.27Y	121.1	0.00	3.85	1.74	1	12	4	95	0.00	0.0	4.164	0.136	12	4	1	1
PL.30172	PL.30359	ABC	336 MCM AC	7.30Y	121.6	0.00	3.35	0.60	0	13	4	96	0.00	0.0	3.444	0.056	0	0	0	3
PL.31038	PL.30172	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.51	0	4	1	97	0.00	0.0	3.449	0.005	0	0	0	1
PD.4246	PL.31038	A	65T	7.30Y	121.6	0.00	3.35	0.51	0	4	1	97	0.00	0.0	3.449	0.005	0	0	0	1
PL.31039	PD.4246	A	#4 ACSR	7.30Y	121.6	0.00	3.35	0.51	0	4	1	97	0.00	0.0	3.480	0.032	4	1	1	1
PL.31068	PL.30172	ABC	336 MCM AC	7.30Y	121.6	0.00	3.35	0.00	0	0	0	100	0.00	0.0	3.523	0.080	0	0	0	0
PD.4261-B	PL.31068	ABC	Open	7.30Y	121.6	0.00	3.35	0.00	0	0	0	100	0.00	0.0	3.523	0.080	0	0	0	0
PL.30936	PL.30172	A	#4 ACSR	7.30Y	121.6	0.00	3.35	1.30	1	9	3	95	0.00	0.0	3.449	0.005	0	0	0	2
PD.4189	PL.30936	A	65T	7.30Y	121.6	0.00	3.35	1.30	0	9	3	95	0.00	0.0	3.449	0.005	0	0	0	2
PL.30937	PD.4189	A	#4 ACSR	7.30Y	121.6	0.00	3.35	1.30	1	9	3	95	0.00	0.0	3.513	0.065	9	3	2	2
PL.30956	PL.30360	C	#2 ACSR	7.31Y	121.8	0.00	3.18	2.59	1	18	5	96	0.00	0.0	3.181	0.005	0	0	0	4
PD.4198	PL.30956	C	65T	7.31Y	121.8	0.00	3.18	2.59	0	18	5	96	0.00	0.0	3.181	0.005	0	0	0	4
PL.30957	PD.4198	C	#2 ACSR	7.31Y	121.8	0.00	3.18	2.59	1	18	5	96	0.00	0.0	3.207	0.026	18	5	4	4
PL.30940	PL.30723	A	#2 ACSR	7.31Y	121.9	0.00	3.13	8.86	5	62	19	96	0.00	0.0	3.126	0.005	0	0	0	17
PD.4191	PL.30940	A	65T	7.31Y	121.9	0.00	3.13	8.86	0	62	19	96	0.00	0.0	3.126	0.005	0	0	0	17
PL.30941	PD.4191	A	#2 ACSR	7.31Y	121.9	0.00	3.14	8.86	5	62	19	96	0.00	0.0	3.139	0.013	0	0	0	17
PL.30156	PL.30941	A	#4 ACSR	7.31Y	121.9	0.00	3.14	4.79	4	34	10	96	0.00	0.0	3.170	0.031	17	5	2	6
PL.30358	PL.30156	A	#4 ACSR	7.31Y	121.9	0.01	3.15	1.19	1	8	2	97	0.00	0.0	3.272	0.102	0	0	0	2
PL.30170	PL.30358	A	#4 ACSR	7.31Y	121.9	0.00	3.15	1.19	1	8	2	97	0.00	0.0	3.284	0.012	8	2	2	2
PL.30157	PL.30156	A	#4 ACSR	7.31Y	121.9	0.00	3.14	1.19	1	8	2	97	0.00	0.0	3.205	0.034	8	2	2	2
PL.30737	PL.30941	A	#2 ACSR	7.31Y	121.9	0.00	3.14	4.07	2	29	9	96	0.00	0.0	3.157	0.018	9	3	4	11
PL.30738	PL.30737	A	#2 ACSR	7.31Y	121.9	0.00	3.14	2.75	2	19	6	95	0.00	0.0	3.202	0.044	19	6	7	7
PL.30938	PL.30356	A	#2 ACSR	7.32Y	122.0	0.00	3.01	0.31	0	2	1	89	0.00	0.0	2.975	0.005	0	0	0	2
PD.4190	PL.30938	A	65T	7.32Y	122.0	0.00	3.01	0.31	0	2	1	89	0.00	0.0	2.975	0.005	0	0	0	2
PL.30939	PD.4190	A	#2 ACSR	7.32Y	122.0	0.00	3.01	0.31	0	2	1	89	0.00	0.0	3.003	0.028	2	1	2	2
PL.30952	PL.30355	A	#2 ACSR	7.33Y	122.1	0.00	2.91	3.38	2	24	7	96	0.00	0.0	2.863	0.005	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: Sand Gap

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.4196	PL.30952	A	65T	7.33Y	122.1	0.00	2.91	3.38	0	24	7	96	0.00	0.0	2.863	0.005	0	0	0	4
PL.30953	PD.4196	A	#2 ACSR	7.33Y	122.1	0.00	2.91	3.38	2	24	7	96	0.00	0.0	2.875	0.012	0	0	0	4
PL.30357	PL.30953	A	#2 ACSR	7.33Y	122.1	0.00	2.91	0.87	0	6	2	95	0.00	0.0	2.889	0.014	6	2	1	1
PL.30155	PL.30953	A	#4 ACSR	7.33Y	122.1	0.00	2.91	2.52	2	18	5	96	0.00	0.0	2.909	0.034	18	5	3	3
PL.30942	PL.30354	C	#2 ACSR	7.33Y	122.2	0.00	2.85	0.00	0	0	0	100	0.00	0.0	2.793	0.005	0	0	0	1
PD.4192	PL.30942	C	65T	7.33Y	122.2	0.00	2.85	0.00	0	0	0	100	0.00	0.0	2.793	0.005	0	0	0	1
PL.30943	PD.4192	C	#2 ACSR	7.33Y	122.2	0.00	2.85	0.00	0	0	0	100	0.00	0.0	2.824	0.031	0	0	1	1
PL.31036	PL.30354	A	#2 ACSR	7.33Y	122.1	0.00	2.85	3.48	2	24	7	96	0.00	0.0	2.793	0.005	0	0	0	2
PD.4245	PL.31036	A	65T	7.33Y	122.1	0.00	2.85	3.48	0	24	7	96	0.00	0.0	2.793	0.005	0	0	0	2
PL.31037	PD.4245	A	#2 ACSR	7.33Y	122.1	0.00	2.85	3.48	2	24	7	96	0.00	0.0	2.839	0.046	9	3	1	2
PL.30724	PL.31037	A	#2 ACSR	7.33Y	122.1	0.00	2.86	2.14	1	15	4	97	0.00	0.0	2.873	0.034	15	4	1	1
PL.30169	PL.30724	A	#1/0 ACSR	7.33Y	122.1	0.00	2.86	0.00	0	0	0	100	0.00	0.0	2.920	0.047	0	0	0	0
PL.31034	PL.30351	A	#1/0 ACSR	7.33Y	122.2	0.00	2.76	0.84	0	6	2	95	0.00	0.0	2.690	0.005	0	0	0	2
PD.4244	PL.31034	A	65T	7.33Y	122.2	0.00	2.76	0.84	0	6	2	95	0.00	0.0	2.690	0.005	0	0	0	2
PL.31035	PD.4244	A	#1/0 ACSR	7.33Y	122.2	0.00	2.76	0.84	0	6	2	95	0.00	0.0	2.707	0.017	6	2	2	2
PL.30944	PL.30351	C	#1/0 ACSR	7.33Y	122.2	0.00	2.76	1.67	1	12	4	95	0.00	0.0	2.690	0.005	0	0	0	1
PD.4193	PL.30944	C	65T	7.33Y	122.2	0.00	2.76	1.67	0	12	4	95	0.00	0.0	2.690	0.005	0	0	0	1
PL.30945	PD.4193	C	#1/0 ACSR	7.33Y	122.2	0.00	2.76	1.67	1	12	4	95	0.00	0.0	2.727	0.036	12	4	1	1
PL.31032	PL.30949	C	#1/0 ACSR	7.34Y	122.3	0.00	2.68	1.94	1	14	4	96	0.00	0.0	2.601	0.005	0	0	0	2
PD.4242	PL.31032	C	65T	7.34Y	122.3	0.00	2.68	1.94	0	14	4	96	0.00	0.0	2.601	0.005	0	0	0	2
PL.31033	PD.4242	C	#1/0 ACSR	7.34Y	122.3	0.00	2.68	1.94	1	14	4	96	0.00	0.0	2.651	0.050	14	4	2	2
PL.30946	PL.30949	A	#4 ACSR	7.34Y	122.3	0.00	2.68	1.29	1	9	3	95	0.00	0.0	2.601	0.005	0	0	0	3
PD.4194	PL.30946	A	65T	7.34Y	122.3	0.00	2.68	1.29	0	9	3	95	0.00	0.0	2.601	0.005	0	0	0	3
PL.30947	PD.4194	A	#4 ACSR	7.34Y	122.3	0.00	2.68	1.29	1	9	3	95	0.00	0.0	2.640	0.039	9	3	3	3
PL.31066	PL.30349	ABC	#2 ACSR	7.35Y	122.5	0.00	2.55	2.35	1	48	19	93	0.00	0.0	2.454	0.005	0	0	0	2
PD.4260	PL.31066	ABC	65T	7.35Y	122.5	0.00	2.55	2.35	0	48	19	93	0.00	0.0	2.454	0.005	0	0	0	2
PL.31067	PD.4260	ABC	#2 ACSR	7.35Y	122.5	0.00	2.55	2.35	1	48	19	93	0.00	0.0	2.466	0.012	0	0	0	2
PL.30350	PL.31067	ABC	#2 ACSR	7.35Y	122.5	0.00	2.55	1.40	1	28	13	91	0.00	0.0	2.482	0.016	28	13	1	1
PL.30922	PL.31067	A	#2 ACSR	7.35Y	122.5	0.00	2.55	2.88	2	20	6	96	0.00	0.0	2.471	0.005	0	0	0	1
PD.4182	PL.30922	A	65T	7.35Y	122.5	0.00	2.55	2.88	0	20	6	96	0.00	0.0	2.471	0.005	0	0	0	1
PL.30923	PD.4182	A	#2 ACSR	7.35Y	122.4	0.00	2.55	2.88	2	20	6	96	0.00	0.0	2.526	0.055	20	6	1	1

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Balanced Voltage Drop Report
Source: Sand Gap

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.30920	PL.30348	C	#4 ACSR	7.35Y	122.5	0.00	2.46	1.15	1	8	2	97	0.00	0.0	2.362	0.005	0	0	0	4
PD.4181	PL.30920	C	65T	7.35Y	122.5	0.00	2.46	1.15	0	8	2	97	0.00	0.0	2.362	0.005	0	0	0	4
PL.30921	PD.4181	C	#4 ACSR	7.35Y	122.5	0.00	2.46	1.15	1	8	2	97	0.00	0.0	2.392	0.030	8	2	1	4
PL.30466	PL.30921	C	#4 ACSR	7.35Y	122.5	0.00	2.46	0.05	0	0	0	100	0.00	0.0	2.445	0.053	0	0	1	3
PL.30918	PL.30466	C	#1/0 ACSR	7.35Y	122.5	0.00	2.46	0.02	0	0	0	100	0.00	0.0	2.449	0.005	0	0	0	2
PD.4180	PL.30918	C	65T	7.35Y	122.5	0.00	2.46	0.02	0	0	0	100	0.00	0.0	2.449	0.005	0	0	0	2
PL.30919	PD.4180	C	#1/0 ACSR	7.35Y	122.5	0.00	2.46	0.02	0	0	0	100	0.00	0.0	2.631	0.182	0	0	1	2
PL.30698	PL.30919	C	#1/0 ACSR	7.35Y	122.5	0.00	2.46	0.02	0	0	0	100	0.00	0.0	2.811	0.180	0	0	1	1
PL.30912	PL.30346	A	#1/0 ACSR	7.38Y	122.9	0.00	2.07	0.00	0	0	0	100	0.00	0.0	1.947	0.005	0	0	0	0
PD.4177	PL.30912	A	65T	7.38Y	122.9	0.00	2.07	0.00	0	0	0	100	0.00	0.0	1.947	0.005	0	0	0	0
PL.30913	PD.4177	A	#1/0 ACSR	7.38Y	122.9	0.00	2.07	0.00	0	0	0	100	0.00	0.0	1.963	0.016	0	0	0	0
PL.30900	PL.30345	A	6 A (CWC)	7.39Y	123.2	0.00	1.85	12.31	9	87	26	96	0.00	0.0	1.715	0.005	0	0	0	18
PD.4171	PL.30900	A	65T	7.39Y	123.2	0.00	1.85	12.31	0	87	26	96	0.00	0.0	1.715	0.005	0	0	0	18
PL.30901	PD.4171	A	6 A (CWC)	7.38Y	123.0	0.10	1.95	12.31	9	87	26	96	0.07	0.1	1.896	0.181	0	0	0	18
PL.30681	PL.30901	A	6 A (CWC)	7.38Y	123.0	0.03	1.98	5.44	4	39	11	96	0.01	0.0	2.025	0.129	6	2	2	13
PL.30682	PL.30681	A	6 A (CWC)	7.38Y	123.0	0.02	2.01	4.58	3	32	10	95	0.01	0.0	2.161	0.136	10	3	5	11
PL.30125	PL.30682	A	6 A (CWC)	7.38Y	123.0	0.01	2.02	3.20	2	23	7	96	0.00	0.0	2.228	0.067	0	0	0	6
PL.30165	PL.30125	A	6 A (CWC)	7.38Y	123.0	0.00	2.02	3.20	2	23	7	96	0.00	0.0	2.274	0.046	13	4	4	6
PL.30164	PL.30165	A	6 A (CWC)	7.38Y	123.0	0.00	2.02	1.36	1	10	3	96	0.00	0.0	2.329	0.055	0	0	0	2
PL.30166	PL.30164	A	#4 ACSR	7.38Y	123.0	0.00	2.02	1.36	1	10	3	96	0.00	0.0	2.356	0.028	10	3	2	2
PL.30122	PL.30901	A	#4 ACSR	7.38Y	123.0	0.02	1.97	6.86	5	49	14	96	0.01	0.0	1.949	0.054	0	0	0	5
PL.30124	PL.30122	A	#4 ACSR	7.38Y	123.0	0.00	1.97	2.09	2	15	4	97	0.00	0.0	1.990	0.040	0	0	0	2
PL.30163	PL.30124	A	#4 ACSR	7.38Y	123.0	0.00	1.97	2.09	2	15	4	97	0.00	0.0	2.027	0.038	7	2	1	2
PL.30308	PL.30163	A	#4 ACSR	7.38Y	123.0	0.00	1.98	1.15	1	8	2	97	0.00	0.0	2.079	0.052	8	2	1	1
PL.30123	PL.30122	A	#1/0 ACSR	7.38Y	123.0	0.00	1.97	1.16	1	8	2	97	0.00	0.0	2.012	0.063	8	2	1	1
PL.30353	PL.30122	A	#4 ACSR	7.38Y	123.0	0.00	1.97	3.61	3	26	8	96	0.00	0.0	2.003	0.054	26	8	2	2
PL.30896	PL.30591	A	#1/0 ACSR	7.40Y	123.4	0.00	1.61	0.75	0	5	2	93	0.00	0.0	1.476	0.004	0	0	0	1
PD.4169	PL.30896	A	65T	7.40Y	123.4	0.00	1.61	0.75	0	5	2	93	0.00	0.0	1.476	0.004	0	0	0	1
PL.30897	PD.4169	A	#1/0 ACSR	7.40Y	123.4	0.00	1.61	0.75	0	5	2	93	0.00	0.0	1.636	0.160	5	2	1	1
PL.31028	PL.30591	A	#4 ACSR	7.40Y	123.4	0.00	1.61	19.07	15	135	40	96	0.00	0.0	1.476	0.005	0	0	0	30
PD.4240	PL.31028	A	65T	7.40Y	123.4	0.00	1.61	19.07	0	135	40	96	0.00	0.0	1.476	0.005	0	0	0	30

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: Sand Gap

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.31029	PD.4240	A	#4 ACSR	7.40Y	123.4	0.02	1.63	19.07	15	135	40	96	0.02	0.0	1.497	0.021	7	2	5	30
PL.30115	PL.31029	A	#4 ACSR	7.40Y	123.4	0.00	1.63	1.07	1	8	2	97	0.00	0.0	1.542	0.045	8	2	1	1
PL.30116	PL.31029	A	#4 ACSR	7.40Y	123.4	0.00	1.63	0.81	1	6	2	95	0.00	0.0	1.541	0.044	6	2	5	5
PL.30673	PL.31029	A	#4 ACSR	7.40Y	123.3	0.03	1.66	16.25	12	115	34	96	0.03	0.0	1.542	0.046	0	0	0	19
PL.30674	PL.30673	A	#4 ACSR	7.40Y	123.3	0.03	1.69	16.25	12	115	34	96	0.03	0.0	1.582	0.040	0	0	0	19
PL.30338	PL.30674	A	#4 ACSR	7.40Y	123.3	0.00	1.69	1.22	1	9	3	95	0.00	0.0	1.676	0.093	9	3	1	1
PL.30113	PL.30674	A	#4 ACSR	7.40Y	123.3	0.03	1.73	15.03	12	107	32	96	0.03	0.0	1.634	0.052	0	0	0	18
PL.30114	PL.30113	A	#4 ACSR	7.40Y	123.3	0.00	1.73	0.83	1	6	2	95	0.00	0.0	1.678	0.044	6	2	2	2
PL.30339	PL.30113	A	#4 ACSR	7.39Y	123.2	0.04	1.76	14.20	11	101	30	96	0.03	0.0	1.698	0.064	5	2	1	16
PL.30154	PL.30339	A	#1/0 ACSR	7.39Y	123.2	0.01	1.77	4.03	2	29	9	96	0.00	0.0	1.789	0.090	0	0	0	5
PL.30671	PL.30154	A	#2 ACSR	7.39Y	123.2	0.00	1.77	0.76	0	5	2	93	0.00	0.0	1.815	0.026	0	0	1	2
PL.30672	PL.30671	A	#2 ACSR	7.39Y	123.2	0.00	1.77	0.76	0	5	2	93	0.00	0.0	1.854	0.039	5	2	1	1
PL.30152	PL.30154	A	#1/0 ACSR	7.39Y	123.2	0.00	1.78	1.41	1	10	3	96	0.00	0.0	1.857	0.068	0	0	0	2
PL.30118	PL.30152	A	#2 ACSR	7.39Y	123.2	0.00	1.78	0.60	0	4	1	97	0.00	0.0	1.878	0.021	4	1	1	1
PL.30340	PL.30152	A	#1/0 ACSR	7.39Y	123.2	0.00	1.78	0.81	0	6	2	95	0.00	0.0	1.911	0.054	6	2	1	1
PL.30153	PL.30154	A	#2 ACSR	7.39Y	123.2	0.00	1.77	1.86	1	13	4	96	0.00	0.0	1.831	0.042	13	4	1	1
PL.30589	PL.30339	A	#4 ACSR	7.39Y	123.2	0.02	1.79	9.43	7	67	20	96	0.01	0.0	1.760	0.061	7	2	1	10
PL.30119	PL.30589	A	#4 ACSR	7.39Y	123.2	0.00	1.79	1.13	1	8	2	97	0.00	0.0	1.791	0.032	8	2	1	1
PL.30590	PL.30589	A	#4 ACSR	7.39Y	123.2	0.01	1.80	7.35	6	52	16	96	0.00	0.0	1.785	0.025	0	0	0	8
PL.30677	PL.30590	A	#4 ACSR	7.39Y	123.2	0.02	1.82	3.54	3	25	7	96	0.00	0.0	1.949	0.164	4	1	1	4
PL.30678	PL.30677	A	#4 ACSR	7.39Y	123.2	0.02	1.84	2.96	2	21	6	96	0.00	0.0	2.073	0.124	0	0	0	3
PL.30675	PL.30678	A	#4 ACSR	7.39Y	123.2	0.01	1.85	2.96	2	21	6	96	0.00	0.0	2.169	0.096	13	4	2	3
PL.30676	PL.30675	A	#4 ACSR	7.39Y	123.2	0.00	1.85	1.15	1	8	2	97	0.00	0.0	2.229	0.060	8	2	1	1
PL.30341	PL.30590	A	#4 ACSR	7.39Y	123.2	0.00	1.80	3.81	3	27	8	96	0.00	0.0	1.806	0.021	12	4	2	4
PL.30117	PL.30341	A	#4 ACSR	7.39Y	123.2	0.00	1.80	1.27	1	9	3	95	0.00	0.0	1.840	0.034	9	3	1	1
PL.30679	PL.30341	A	#4 ACSR	7.39Y	123.2	0.00	1.80	0.88	1	6	2	95	0.00	0.0	1.860	0.054	6	2	1	1
PL.30680	PL.30679	A	#4 ACSR	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	1.903	0.043	0	0	0	0
PL.30894	PL.30336	A	6 A (CWC)	7.41Y	123.5	0.00	1.53	6.26	4	44	13	96	0.00	0.0	1.400	0.005	0	0	0	6
PD.4168	PL.30894	A	65T	7.41Y	123.5	0.00	1.53	6.26	0	44	13	96	0.00	0.0	1.400	0.005	0	0	0	6
PL.30895	PD.4168	A	6 A (CWC)	7.41Y	123.4	0.02	1.55	6.26	4	44	13	96	0.01	0.0	1.487	0.086	7	2	1	6
PL.30149	PL.30895	A	#2 ACSR	7.41Y	123.4	0.00	1.55	1.70	1	12	4	95	0.00	0.0	1.579	0.092	12	4	1	1

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Balanced Voltage Drop Report
Source: Sand Gap

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.30337	PL.30895	A	6 A (CWC)	7.41Y	123.4	0.03	1.58	3.59	3	26	8	96	0.00	0.0	1.642	0.155	0	0	0	4
PL.30427	PL.30337	A	6 A (CWC)	7.40Y	123.4	0.03	1.60	3.59	3	25	8	95	0.01	0.0	1.807	0.165	0	0	0	4
PL.30428	PL.30427	A	6 A (CWC)	7.40Y	123.4	0.02	1.62	3.59	3	25	8	95	0.00	0.0	1.929	0.122	0	0	0	4
PL.30429	PL.30428	A	6 A (CWC)	7.40Y	123.4	0.02	1.64	3.59	3	25	8	95	0.00	0.0	2.054	0.125	0	0	0	4
PL.30151	PL.30429	A	#4 ACSR	7.40Y	123.3	0.01	1.65	3.59	3	25	8	95	0.00	0.0	2.102	0.048	5	2	1	4
PL.30630	PL.30151	A	#4 ACSR	7.40Y	123.3	0.00	1.66	2.83	2	20	6	96	0.00	0.0	2.144	0.043	9	3	1	3
PL.30631	PL.30630	A	#4 ACSR	7.40Y	123.3	0.01	1.66	1.56	1	11	3	96	0.00	0.0	2.246	0.102	0	0	0	2
PL.30150	PL.30631	A	#4 ACSR	7.40Y	123.3	0.00	1.67	1.56	1	11	3	96	0.00	0.0	2.293	0.046	0	0	0	2
PL.30307	PL.30150	A	#4 ACSR	7.40Y	123.3	0.00	1.67	1.56	1	11	3	96	0.00	0.0	2.334	0.041	11	3	2	2
PL.30132	PL.30740	ABC	#1/0 ACSR	7.42Y	123.6	0.01	1.37	13.91	6	297	89	96	0.02	0.0	1.274	0.036	0	0	0	68
PL.30597	PL.30132	ABC	#1/0 ACSR	7.42Y	123.6	0.00	1.37	12.27	5	262	79	96	0.00	0.0	1.279	0.004	0	0	0	63
PL.30598	PL.30597	ABC	#1/0 ACSR	7.42Y	123.6	0.01	1.37	12.27	5	262	79	96	0.01	0.0	1.311	0.032	0	0	0	63
PL.30743	PL.30598	ABC	#1/0 ACSR	7.42Y	123.6	0.01	1.39	11.57	5	246	74	96	0.02	0.0	1.376	0.065	2	1	1	60
PL.30744	PL.30743	ABC	#1/0 ACSR	7.42Y	123.6	0.02	1.41	11.48	5	245	74	96	0.04	0.0	1.493	0.117	10	3	2	59
PL.30491	PL.30744	ABC	#1/0 ACSR	7.41Y	123.6	0.02	1.43	11.02	5	235	71	96	0.04	0.0	1.603	0.110	0	0	0	57
PD.4268	PL.30491	ABC	35L	7.41Y	123.6	0.00	1.43	11.02	31	235	71	96	0.00	0.0	1.603	0.110	0	0	0	57
PL.30492	PD.4268	ABC	#1/0 ACSR	7.41Y	123.5	0.02	1.46	11.02	5	235	71	96	0.04	0.0	1.718	0.115	0	0	0	57
PL.30750	PL.30492	ABC	#1/0 ACSR	7.41Y	123.5	0.03	1.48	11.02	5	235	71	96	0.04	0.0	1.849	0.132	0	0	1	57
PL.30751	PL.30750	ABC	#1/0 ACSR	7.41Y	123.5	0.02	1.50	11.02	5	235	71	96	0.03	0.0	1.934	0.084	9	3	3	56
PL.30966	PL.30751	A	6 A (CWC)	7.41Y	123.5	0.00	1.50	0.00	0	0	0	100	0.00	0.0	1.938	0.005	0	0	0	1
PD.4204	PL.30966	A	15T	7.41Y	123.5	0.00	1.50	0.00	0	0	0	100	0.00	0.0	1.938	0.005	0	0	0	1
PL.30967	PD.4204	A	6 A (CWC)	7.41Y	123.5	0.00	1.50	0.00	0	0	0	100	0.00	0.0	2.055	0.117	0	0	0	1
PL.30752	PL.30967	A	6 A (CWC)	7.41Y	123.5	0.00	1.50	0.00	0	0	0	100	0.00	0.0	2.150	0.094	0	0	1	1
PL.30753	PL.30752	A	6 A (CWC)	7.41Y	123.5	0.00	1.50	0.00	0	0	0	100	0.00	0.0	2.234	0.084	0	0	0	0
PL.30326	PL.30751	ABC	#1/0 ACSR	7.41Y	123.5	0.02	1.52	10.61	5	226	68	96	0.03	0.0	2.024	0.090	0	0	0	52
PL.31026	PL.30326	A	#2 ACSR	7.41Y	123.5	0.00	1.52	4.56	3	32	10	95	0.00	0.0	2.029	0.005	0	0	0	5
PD.4239	PL.31026	A	15T	7.41Y	123.5	0.00	1.52	4.56	0	32	10	95	0.00	0.0	2.029	0.005	0	0	0	5
PL.31027	PD.4239	A	#2 ACSR	7.41Y	123.5	0.01	1.53	4.56	3	32	10	95	0.00	0.0	2.084	0.055	0	0	0	5
PL.30134	PL.31027	A	#2 ACSR	7.41Y	123.5	0.02	1.54	4.56	3	32	10	95	0.00	0.0	2.202	0.118	0	0	0	5
PL.30135	PL.30134	A	#1/0 ACSR	7.41Y	123.5	0.00	1.55	1.51	1	11	3	96	0.00	0.0	2.324	0.122	0	0	0	2
PL.30327	PL.30135	A	#1/0 ACSR	7.41Y	123.5	0.00	1.55	0.01	0	0	0	100	0.00	0.0	2.393	0.069	0	0	1	1

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Balanced Voltage Drop Report
Source: Sand Gap

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.30136	PL.30135	A	#1/0 ACSR	7.41Y	123.5	0.00	1.55	1.50	1	11	3	96	0.00	0.0	2.352	0.028	11	3	1	1
PL.30745	PL.30134	A	#2 ACSR	7.41Y	123.5	0.00	1.55	3.05	2	22	6	96	0.00	0.0	2.228	0.027	5	2	1	3
PL.30746	PL.30745	A	#2 ACSR	7.41Y	123.5	0.00	1.55	2.34	1	17	5	96	0.00	0.0	2.284	0.056	17	5	2	2
PL.30964	PL.30326	A	#1/0 ACSR	7.41Y	123.5	0.00	1.52	0.00	0	0	0	100	0.00	0.0	2.029	0.005	0	0	0	0
PD.4203	PL.30964	A	15T	7.41Y	123.5	0.00	1.52	0.00	0	0	0	100	0.00	0.0	2.029	0.005	0	0	0	0
PL.30965	PD.4203	A	#1/0 ACSR	7.41Y	123.5	0.00	1.52	0.00	0	0	0	100	0.00	0.0	2.063	0.035	0	0	0	0
PL.30142	PL.30326	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.53	9.09	4	193	58	96	0.01	0.0	2.076	0.052	1	0	1	47
PL.30748	PL.30142	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.53	9.04	4	192	58	96	0.01	0.0	2.124	0.048	6	2	1	46
PL.30749	PL.30748	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.54	8.75	4	186	56	96	0.01	0.0	2.168	0.044	0	0	1	45
PL.30747	PL.30749	ABC	#1/0 ACSR	7.41Y	123.5	0.01	1.55	8.75	4	186	56	96	0.01	0.0	2.224	0.057	0	0	0	44
PL.30328	PL.30747	ABC	#1/0 ACSR	7.41Y	123.4	0.02	1.57	8.61	4	183	55	96	0.02	0.0	2.346	0.122	0	0	0	43
PL.30137	PL.30328	B	#2 ACSR	7.40Y	123.4	0.03	1.60	25.83	15	183	55	96	0.04	0.0	2.380	0.034	0	0	0	43
PL.30754	PL.30137	B	6 A (CWC)	7.40Y	123.4	0.02	1.62	25.83	18	183	55	96	0.03	0.0	2.400	0.020	5	1	1	43
PL.30755	PL.30754	B	6 A (CWC)	7.40Y	123.3	0.06	1.68	25.13	18	178	54	96	0.08	0.0	2.451	0.051	0	0	0	42
PL.30464	PL.30755	B	6 A (CWC)	7.39Y	123.2	0.15	1.83	25.13	18	178	54	96	0.20	0.1	2.582	0.131	5	1	2	41
PL.30465	PL.30464	B	6 A (CWC)	7.38Y	123.0	0.20	2.02	24.47	17	173	52	96	0.25	0.1	2.755	0.173	0	0	0	39
PL.30140	PL.30465	B	6 A (CWC)	7.38Y	123.0	0.00	2.03	1.40	1	10	3	96	0.00	0.0	2.889	0.134	10	3	4	4
PL.30329	PL.30465	B	6 A (CWC)	7.37Y	122.9	0.07	2.10	23.08	16	163	49	96	0.09	0.1	2.824	0.068	0	0	0	35
PL.30141	PL.30329	B	#2 ACSR	7.37Y	122.9	0.00	2.10	1.74	1	12	4	95	0.00	0.0	2.843	0.020	12	4	2	2
PL.30599	PL.30329	B	6 A (CWC)	7.37Y	122.8	0.11	2.21	21.34	15	151	45	96	0.12	0.1	2.934	0.111	0	0	0	33
PL.30600	PL.30599	B	6 A (CWC)	7.36Y	122.7	0.09	2.30	19.28	14	136	41	96	0.09	0.1	3.037	0.102	0	0	0	32
PL.30143	PL.30600	B	6 A (CWC)	7.36Y	122.7	0.00	2.30	0.95	1	7	2	96	0.00	0.0	3.077	0.040	7	2	2	2
PL.30758	PL.30600	B	6 A (CWC)	7.36Y	122.6	0.12	2.41	18.33	13	129	39	96	0.11	0.1	3.183	0.146	10	3	2	30
PL.30463	PL.30758	B	6 A (CWC)	7.35Y	122.5	0.05	2.47	16.95	12	119	36	96	0.05	0.0	3.249	0.066	0	0	0	28
PL.30105	PL.30463	B	6 A (CWC)	7.35Y	122.5	0.00	2.47	16.95	12	119	36	96	0.00	0.0	3.253	0.005	0	0	0	28
PD.4243	PL.30105	B	10T	7.35Y	122.5	0.00	2.47	16.95	0	119	36	96	0.00	0.0	3.253	0.005	0	0	0	28
PL.30104	PD.4243	B	#4 ACSR	7.35Y	122.5	0.00	2.47	0.47	0	3	1	95	0.00	0.0	3.302	0.048	3	1	1	1
PL.30330	PD.4243	B	6 A (CWC)	7.35Y	122.4	0.09	2.56	15.68	11	110	33	96	0.07	0.1	3.378	0.124	0	0	0	25
PL.30106	PL.30330	B	6 A (CWC)	7.35Y	122.4	0.01	2.57	1.47	1	10	3	96	0.00	0.0	3.469	0.091	0	0	0	4
PL.30107	PL.30106	B	#4 ACSR	7.35Y	122.4	0.00	2.57	0.43	0	3	1	95	0.00	0.0	3.572	0.103	3	1	1	1
PL.30332	PL.30106	B	6 A (CWC)	7.35Y	122.4	0.01	2.57	1.04	1	7	2	96	0.00	0.0	3.629	0.159	0	0	0	3

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

Balanced Voltage Drop Report
Source: Sand Gap

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.30423	PL.30332	B	6 A (CWC)	7.35Y	122.4	0.01	2.58	1.04	1	7	2	96	0.00	0.0	3.747	0.118	0	0	0	3
PL.30424	PL.30423	B	6 A (CWC)	7.35Y	122.4	0.00	2.58	1.04	1	7	2	96	0.00	0.0	3.845	0.098	4	1	1	3
PL.30110	PL.30424	B	6 A (CWC)	7.34Y	122.4	0.00	2.58	0.40	0	3	1	95	0.00	0.0	3.951	0.106	0	0	0	1
PL.30426	PL.30110	B	6 A (CWC)	7.34Y	122.4	0.00	2.59	0.40	0	3	1	95	0.00	0.0	4.063	0.113	3	1	1	1
PL.30145	PL.30424	B	#4 ACSR	7.35Y	122.4	0.00	2.58	0.07	0	1	0	100	0.00	0.0	4.032	0.188	0	0	0	1
PL.30644	PL.30145	B	#4 ACSR	7.35Y	122.4	0.00	2.58	0.07	0	1	0	100	0.00	0.0	4.166	0.133	1	0	1	1
PL.30645	PL.30644	B	#4 ACSR	7.35Y	122.4	0.00	2.58	0.00	0	0	0	100	0.00	0.0	4.280	0.114	0	0	0	0
PL.30553	PL.30645	B	#4 ACSR	7.35Y	122.4	0.00	2.58	0.00	0	0	0	100	0.00	0.0	4.374	0.094	0	0	0	0
PL.30425	PL.30553	B	#4 ACSR	7.35Y	122.4	0.00	2.58	0.00	0	0	0	100	0.00	0.0	4.525	0.151	0	0	0	0
PL.30112	PL.30425	B	6 A (CWC)	7.35Y	122.4	0.00	2.58	0.00	0	0	0	100	0.00	0.0	4.536	0.011	0	0	0	0
PL.30111	PL.30112	B	6 A (CWC)	7.35Y	122.4	0.00	2.58	0.00	0	0	0	100	0.00	0.0	4.583	0.047	0	0	0	0
PL.30331	PL.30330	B	6 A (CWC)	7.34Y	122.3	0.09	2.65	14.21	10	100	30	96	0.07	0.1	3.518	0.140	0	0	0	21
PL.30108	PL.30331	B	#2 ACSR	7.34Y	122.3	0.00	2.65	1.03	1	7	2	96	0.00	0.0	3.552	0.034	7	2	1	1
PL.30333	PL.30331	B	6 A (CWC)	7.34Y	122.3	0.06	2.71	13.18	9	93	28	96	0.04	0.0	3.616	0.098	0	0	0	20
PL.30642	PL.30333	B	6 A (CWC)	7.34Y	122.3	0.02	2.73	10.58	8	74	22	96	0.01	0.0	3.652	0.036	8	2	3	17
PL.30643	PL.30642	B	6 A (CWC)	7.33Y	122.2	0.03	2.75	9.44	7	66	20	96	0.01	0.0	3.716	0.064	7	2	1	14
PL.30641	PL.30643	B	6 A (CWC)	7.33Y	122.2	0.01	2.76	8.43	6	59	18	96	0.00	0.0	3.744	0.028	4	1	1	13
PL.30640	PL.30641	B	6 A (CWC)	7.33Y	122.2	0.02	2.78	7.92	6	56	17	96	0.01	0.0	3.803	0.059	15	5	3	12
PL.30639	PL.30640	B	6 A (CWC)	7.33Y	122.2	0.01	2.79	5.76	4	40	12	96	0.00	0.0	3.835	0.032	0	0	1	9
PL.30109	PL.30639	B	6 A (CWC)	7.33Y	122.2	0.00	2.79	0.64	0	4	1	97	0.00	0.0	3.915	0.080	4	1	2	2
PL.30334	PL.30639	B	6 A (CWC)	7.33Y	122.2	0.03	2.82	5.11	4	36	11	96	0.01	0.0	3.949	0.114	0	0	1	6
PL.30335	PL.30334	B	6 A (CWC)	7.33Y	122.2	0.01	2.83	4.02	3	28	8	96	0.00	0.0	4.019	0.071	19	6	3	4
PL.30148	PL.30335	B	#1/0 ACSR	7.33Y	122.2	0.00	2.83	1.28	1	9	3	95	0.00	0.0	4.111	0.091	0	0	0	1
PL.30422	PL.30148	B	#1/0 ACSR	7.33Y	122.2	0.00	2.83	1.28	1	9	3	95	0.00	0.0	4.284	0.174	9	3	1	1
PL.30147	PL.30334	B	#4 ACSR	7.33Y	122.2	0.00	2.82	1.10	1	8	2	97	0.00	0.0	4.003	0.054	8	2	1	1
PL.30756	PL.30333	B	#2 ACSR	7.34Y	122.3	0.00	2.71	2.60	1	18	5	96	0.00	0.0	3.657	0.042	8	2	1	3
PL.30757	PL.30756	B	#2 ACSR	7.34Y	122.3	0.00	2.71	1.43	1	10	3	96	0.00	0.0	3.711	0.054	8	2	1	2
PL.30146	PL.30757	B	#2 ACSR	7.34Y	122.3	0.00	2.71	0.29	0	2	1	89	0.00	0.0	3.751	0.040	2	1	1	1
PL.30144	PD.4243	B	6 A (CWC)	7.35Y	122.5	0.01	2.48	0.80	1	6	2	95	0.00	0.0	3.398	0.144	0	0	0	2
PL.30306	PL.30144	B	6 A (CWC)	7.35Y	122.5	0.01	2.48	0.80	1	6	2	95	0.00	0.0	3.561	0.163	0	0	0	2
PL.30604	PL.30306	B	6 A (CWC)	7.35Y	122.5	0.00	2.48	0.80	1	6	2	95	0.00	0.0	3.626	0.065	0	0	0	2

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Balanced Voltage Drop Report
Source: Sand Gap

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.30605	PL.30604	B	6 A (CWC)	7.35Y	122.5	0.00	2.48	0.56	0	4	1	97	0.00	0.0	3.706	0.081	4	1	1	1
PL.30601	PL.30604	B	6 A (CWC)	7.35Y	122.5	0.00	2.49	0.24	0	2	1	89	0.00	0.0	3.772	0.146	0	0	0	1
PL.30602	PL.30601	B	6 A (CWC)	7.35Y	122.5	0.00	2.49	0.24	0	2	1	89	0.00	0.0	3.917	0.144	0	0	0	1
PL.30549	PL.30602	B	#4 ACSR	7.35Y	122.5	0.00	2.49	0.24	0	2	1	89	0.00	0.0	4.067	0.151	2	1	1	1
PL.30603	PL.30602	B	6 A (CWC)	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	4.033	0.117	0	0	0	0
PL.30554	PL.30603	B	6 A (CWC)	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	4.176	0.142	0	0	0	0
PD.5966-A	PL.30554	B	Open	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	4.176	0.142	0	0	0	0
PL.30103	PL.30599	B	#2 ACSR	7.37Y	122.8	0.00	2.21	2.06	1	15	4	97	0.00	0.0	2.962	0.027	15	4	1	1
PL.30139	PL.30755	B	#2 ACSR	7.40Y	123.3	0.00	1.68	0.00	0	0	0	100	0.00	0.0	2.498	0.046	0	0	1	1
PL.30962	PL.30747	A	#2 ACSR	7.41Y	123.5	0.00	1.55	0.41	0	3	1	95	0.00	0.0	2.229	0.004	0	0	0	1
PD.4202	PL.30962	A	15T	7.41Y	123.5	0.00	1.55	0.41	0	3	1	95	0.00	0.0	2.229	0.004	0	0	0	1
PL.30963	PD.4202	A	#2 ACSR	7.41Y	123.4	0.00	1.55	0.41	0	3	1	95	0.00	0.0	2.253	0.025	3	1	1	1
PL.30960	PL.30598	A	#4 ACSR	7.42Y	123.6	0.00	1.37	2.12	2	15	5	95	0.00	0.0	1.315	0.005	0	0	0	3
PD.4201	PL.30960	A	65T	7.42Y	123.6	0.00	1.37	2.12	0	15	5	95	0.00	0.0	1.315	0.005	0	0	0	3
PL.30961	PD.4201	A	#4 ACSR	7.42Y	123.6	0.00	1.37	2.12	2	15	5	95	0.00	0.0	1.328	0.013	15	5	3	3
PL.30594	PL.30132	C	#4 ACSR	7.42Y	123.6	0.00	1.37	4.92	4	35	10	96	0.00	0.0	1.279	0.005	0	0	0	5
PD.4200	PL.30594	C	65T	7.42Y	123.6	0.00	1.37	4.92	0	35	10	96	0.00	0.0	1.279	0.005	0	0	0	5
PL.30133	PD.4200	C	#4 ACSR	7.42Y	123.6	0.00	1.37	0.06	0	0	0	100	0.00	0.0	1.300	0.021	0	0	1	1
PL.30741	PD.4200	C	#4 ACSR	7.42Y	123.6	0.00	1.37	4.86	4	35	10	96	0.00	0.0	1.303	0.024	24	7	3	4
PL.30742	PL.30741	C	#4 ACSR	7.42Y	123.6	0.00	1.37	1.44	1	10	3	96	0.00	0.0	1.338	0.035	10	3	1	1
PL.30882	PL.30325	C	#1/0 ACSR	7.45Y	124.1	0.00	0.87	3.21	1	23	7	96	0.00	0.0	0.836	0.005	0	0	0	4
PD.4161	PL.30882	C	65T	7.45Y	124.1	0.00	0.87	3.21	0	23	7	96	0.00	0.0	0.836	0.005	0	0	0	4
PL.30883	PD.4161	C	#1/0 ACSR	7.45Y	124.1	0.00	0.87	3.21	1	23	7	96	0.00	0.0	0.849	0.013	23	7	4	4
PL.30878	PL.30592	C	#1/0 ACSR	7.47Y	124.5	0.00	0.55	0.35	0	3	1	95	0.00	0.0	0.569	0.005	0	0	0	1
PD.4159	PL.30878	C	65T	7.47Y	124.5	0.00	0.55	0.35	0	3	1	95	0.00	0.0	0.569	0.005	0	0	0	1
PL.30879	PD.4159	C	#1/0 ACSR	7.47Y	124.5	0.00	0.55	0.35	0	3	1	95	0.00	0.0	0.598	0.029	3	1	1	1
PL.30884	PL.30595	C	#1/0 ACSR	7.49Y	124.8	0.00	0.23	1.81	1	13	4	96	0.00	0.0	0.322	0.013	0	0	0	1
PD.4162	PL.30884	C	65T	7.49Y	124.8	0.00	0.23	1.81	0	13	4	96	0.00	0.0	0.322	0.013	0	0	0	1
PL.30885	PD.4162	C	#1/0 ACSR	7.49Y	124.8	0.00	0.23	1.81	1	13	4	96	0.00	0.0	0.364	0.042	13	4	1	1

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total				
KW	6600	0	0	0	0	0	103	0.00	6703	Lowest Voltage =	118.12	on Element	PL.30775
KVAR	2007	0	0	0	0	0	208		2215	Max Accm VoltD =	6.88	on Element	PL.30775
										Max Elem VoltD =	0.45	on Element	PL.30201