

Balanced Voltage Drop Report
Source: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----			
																KW	KVAR	Cons On	Cons Thru	
Laurel Ind 2		ABC	SRC-Laurel	7.50Y	125.0	0.00	0.00	304.76	0	6500	2185	95	0.00	0.0	0.000	0.000	0	0	0	508
PL.59289	Laurel Ind 2	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	192.31	37	4196	1057	97	0.02	0.0	0.003	0.003	0	0	0	503
PL.59288	PL.59289	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	192.31	37	4196	1056	97	0.01	0.0	0.006	0.002	0	0	0	503
----- Feeder No. 4 (Hawk Creek F4) Beginning with Device PD.8772 -----																				
PD.8772	PL.59288	ABC	480VWE	7.50Y	125.0	0.00	0.00	192.31	0	4196	1056	97	0.00	0.0	0.006	0.002	0	0	0	503
PL.61375	PD.8772	ABC	397 SPACER	7.50Y	125.0	0.01	0.01	192.31	37	4196	1056	97	0.07	0.0	0.019	0.014	0	0	0	503
PL.61372	PL.61375	ABC	397 SPACER	7.50Y	125.0	0.02	0.03	192.31	37	4196	1055	97	0.18	0.0	0.056	0.037	0	0	0	503
PL.61373	PL.61372	ABC	397 SPACER	7.49Y	124.8	0.13	0.16	192.31	37	4196	1053	97	1.21	0.0	0.303	0.247	0	0	0	503
PL.61382	PL.61373	ABC	397 SPACER	7.49Y	124.8	0.05	0.21	192.31	37	4195	1039	97	0.41	0.0	0.388	0.085	0	0	0	503
PL.61379	PL.61382	ABC	397 SPACER	7.47Y	124.6	0.22	0.43	187.76	36	4100	989	97	2.01	0.0	0.819	0.432	2	0	1	501
PL.61380	PL.61379	ABC	397 SPACER	7.47Y	124.6	0.00	0.43	187.67	36	4096	965	97	0.00	0.0	0.820	0.000	0	0	0	500
PL.60696	PL.61380	ABC	397 SPACER	7.47Y	124.4	0.14	0.57	187.67	36	4096	965	97	1.25	0.0	1.089	0.269	0	0	0	500
PL.35925	PL.60696	ABC	397 SPACER	7.44Y	124.1	0.37	0.94	187.04	36	4081	944	97	3.47	0.1	1.841	0.752	0	0	0	499
PL.34981	PL.35925	ABC	336 MCM AC	7.43Y	123.8	0.27	1.21	177.99	34	3891	812	98	5.95	0.2	2.064	0.223	0	0	0	495
PL.34846	PL.34981	ABC	336 MCM AC	7.42Y	123.6	0.19	1.40	174.56	34	3810	785	98	4.15	0.1	2.225	0.162	0	0	0	487
PL.34802	PL.34846	ABC	336 MCM AC	7.40Y	123.3	0.28	1.68	172.28	33	3755	767	98	6.05	0.2	2.468	0.242	11	2	1	481
PL.35134	PL.34802	ABC	#3/0 ACSR	7.39Y	123.2	0.11	1.79	171.79	57	3739	751	98	2.68	0.1	2.522	0.054	3	1	1	480
PL.35580	PL.35134	ABC	#1/0 ACSR	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	2.561	0.039	0	0	0	0
PD.5877-A	PL.35580	ABC	Open	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	2.561	0.039	0	0	0	0
PL.34969	PL.35134	ABC	#3/0 ACSR	7.39Y	123.2	0.03	1.82	64.28	21	1397	282	98	0.23	0.0	2.556	0.034	0	0	0	196
PL.34971	PL.34969	A	#4 ACSR	7.39Y	123.2	0.00	1.82	0.87	1	6	1	99	0.00	0.0	2.556	0.000	0	0	0	1
PD.5201	PL.34971	A	40QA	7.39Y	123.2	0.00	1.82	0.87	2	6	1	99	0.00	0.0	2.556	0.000	0	0	0	1
PL.34266	PD.5201	A	#4 ACSR	7.39Y	123.2	0.00	1.82	0.87	1	6	1	99	0.00	0.0	2.574	0.018	6	1	1	1
PL.34970	PL.34969	ABC	#3/0 ACSR	7.39Y	123.2	0.03	1.84	63.99	21	1391	281	98	0.26	0.0	2.593	0.038	0	0	0	195
PL.56630	PL.34970	A	6 A (CWC)	7.39Y	123.2	0.00	1.85	11.89	8	87	15	99	0.00	0.0	2.597	0.003	0	0	0	12
PD.8320	PL.56630	A	20T	7.39Y	123.2	0.00	1.85	11.89	0	87	15	99	0.00	0.0	2.597	0.003	0	0	0	12
PL.56631	PD.8320	A	6 A (CWC)	7.39Y	123.1	0.02	1.87	11.89	8	87	15	99	0.01	0.0	2.634	0.037	0	0	0	12
PL.56328	PL.56631	A	6 A (CWC)	7.39Y	123.1	0.02	1.89	11.89	8	87	15	99	0.01	0.0	2.681	0.047	25	4	7	12
PL.56327	PL.56328	A	6 A (CWC)	7.39Y	123.1	0.00	1.89	1.99	1	14	3	98	0.00	0.0	2.752	0.071	14	3	1	1
PL.56331	PL.56327	A	6 A (CWC)	7.39Y	123.1	0.00	1.89	2.94	2	21	4	98	0.00	0.0	2.740	0.059	21	4	2	2

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

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.56330	PL.56328	A	#2 ACSR	7.39Y	123.1	0.00	1.89	1.51	1	11	2	98	0.00	0.0	2.725	0.044	11	2	1	1
PL.56329	PL.56328	A	#1/0 ACSR	7.39Y	123.1	0.00	1.89	2.03	1	15	3	98	0.00	0.0	2.720	0.039	15	3	1	1
PL.33971	PL.34970	C	6 A (CWC)	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	2.752	0.159	0	0	0	0
PL.33826	PL.34970	ABC	#3/0 ACSR	7.39Y	123.1	0.05	1.89	60.03	20	1304	265	98	0.41	0.0	2.663	0.069	31	5	5	183
PL.34247	PL.33826	ABC	#3/0 ACSR	7.38Y	123.0	0.06	1.95	58.61	20	1272	259	98	0.51	0.0	2.751	0.089	7	1	2	178
PL.34962	PL.34247	ABC	#3/0 ACSR	7.38Y	123.0	0.04	2.00	58.29	19	1265	257	98	0.36	0.0	2.814	0.063	0	0	0	176
PL.64283	PL.34962	A	#2 ACSR	7.38Y	123.0	0.00	2.00	10.37	6	75	13	99	0.00	0.0	2.818	0.003	0	0	0	9
PD.9514	PL.64283	A	25T	7.38Y	123.0	0.00	2.00	10.37	0	75	13	99	0.00	0.0	2.818	0.003	0	0	0	9
PL.64284	PD.9514	A	#2 ACSR	7.38Y	123.0	0.01	2.01	10.37	6	75	13	99	0.00	0.0	2.847	0.030	13	2	1	9
PL.34966	PL.64284	A	#2 ACSR	7.38Y	123.0	0.01	2.02	8.52	5	62	11	98	0.01	0.0	2.907	0.060	9	2	3	8
PL.57772	PL.34966	A	#2 ACSR	7.38Y	123.0	0.00	2.02	7.26	4	53	9	99	0.00	0.0	2.918	0.010	26	5	3	5
PL.57773	PL.57772	A	#2 ACSR	7.38Y	123.0	0.00	2.02	3.69	2	27	5	98	0.00	0.0	2.928	0.010	18	3	1	2
PL.72491	PL.57773	A	#1/0 ACSR	7.38Y	123.0	0.00	2.03	1.27	1	9	2	98	0.00	0.0	2.978	0.050	0	0	0	1
PL.72492	PL.72491	A	#1/0 ACSR	7.38Y	123.0	0.00	2.03	1.27	1	9	2	98	0.00	0.0	3.029	0.051	9	2	1	1
PL.34965	PL.34962	ABC	#3/0 ACSR	7.38Y	123.0	0.01	2.01	54.84	18	1189	244	98	0.09	0.0	2.831	0.017	0	0	0	167
PL.34967	PL.34965	ABC	#1/0 ACSR	7.38Y	123.0	0.00	2.01	54.84	24	1189	244	98	0.01	0.0	2.832	0.001	0	0	0	167
PL.34968	PL.34967	ABC	#1/0 ACSR	7.38Y	122.9	0.05	2.06	54.84	24	1189	244	98	0.42	0.0	2.885	0.053	0	0	0	167
PL.58684	PL.34968	C	#2 ACSR	7.38Y	122.9	0.00	2.06	6.05	3	44	8	98	0.00	0.0	2.888	0.003	0	0	0	7
PD.8639	PL.58684	C	30T	7.38Y	122.9	0.00	2.06	6.05	0	44	8	98	0.00	0.0	2.888	0.003	0	0	0	7
PL.58685	PD.8639	C	#2 ACSR	7.37Y	122.9	0.02	2.08	6.05	3	44	8	98	0.01	0.0	3.030	0.141	5	1	1	7
PL.35290	PL.58685	C	#2 ACSR	7.37Y	122.9	0.01	2.09	5.42	3	39	7	98	0.00	0.0	3.085	0.055	20	4	3	6
PL.35288	PL.35290	C	#2 ACSR	7.37Y	122.9	0.00	2.09	2.64	2	19	3	99	0.00	0.0	3.105	0.020	19	3	2	3
PL.35287	PL.35288	C	#2 ACSR	7.37Y	122.9	0.00	2.09	0.00	0	0	0	100	0.00	0.0	3.122	0.017	0	0	1	1
PL.34596	PL.34968	ABC	#1/0 ACSR	7.37Y	122.8	0.14	2.20	52.82	23	1145	236	98	1.13	0.1	3.037	0.153	0	0	0	160
PL.34597	PL.34596	B	#1/0 ACSR	7.37Y	122.8	0.00	2.20	1.10	0	8	1	99	0.00	0.0	3.038	0.001	0	0	0	1
PD.5202	PL.34597	B	40QA	7.37Y	122.8	0.00	2.20	1.10	3	8	1	99	0.00	0.0	3.038	0.001	0	0	0	1
PL.34598	PD.5202	B	#2 ACSR	7.37Y	122.8	0.00	2.20	1.10	1	8	1	99	0.00	0.0	3.071	0.033	8	1	1	1
PL.36973	PL.34596	ABC	#1/0 ACSR	7.36Y	122.7	0.06	2.26	52.46	23	1136	233	98	0.52	0.0	3.108	0.071	5	1	1	159
PL.36974	PL.36973	ABC	#1/0 ACSR	7.36Y	122.7	0.03	2.30	52.22	23	1130	232	98	0.27	0.0	3.145	0.037	2	0	1	158
PL.36977	PL.36974	ABC	#1/0 ACSR	7.36Y	122.6	0.06	2.36	52.14	23	1128	231	98	0.52	0.0	3.217	0.072	3	0	1	157
PL.57020	PL.36977	ABC	#1/0 ACSR	7.36Y	122.6	0.03	2.39	52.01	23	1125	230	98	0.24	0.0	3.251	0.034	6	1	1	156

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Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PL.57021	PL.57020	ABC	#1/0 ACSR	7.35Y	122.5	0.06	2.45	51.74	22	1119	229	98	0.48	0.0	3.318	0.068	11	2	1	155
PL.57017	PL.57021	ABC	#1/0 ACSR	7.35Y	122.5	0.00	2.45	0.00	0	0	0	100	0.00	0.0	3.347	0.028	0	0	0	0
PL.57019	PL.57017	ABC	#1/0 ACSR	7.35Y	122.5	0.00	2.45	0.00	0	0	0	100	0.00	0.0	3.357	0.011	0	0	0	0
PL.57016	PL.57021	ABC	#2 ACSR	7.35Y	122.5	0.00	2.45	0.00	0	0	0	100	0.00	0.0	3.338	0.020	0	0	0	0
PL.57018	PL.57021	ABC	#1/0 ACSR	7.35Y	122.5	0.06	2.51	38.78	17	837	178	98	0.36	0.0	3.409	0.090	0	0	0	119
PL.57022	PL.57018	ABC	#1/0 ACSR	7.35Y	122.4	0.05	2.56	38.78	17	836	178	98	0.27	0.0	3.476	0.067	11	2	2	119
PL.57026	PL.57022	ABC	#1/0 ACSR	7.34Y	122.4	0.05	2.61	38.28	17	825	176	98	0.28	0.0	3.549	0.073	12	2	3	117
PL.57028	PL.57026	ABC	#1/0 ACSR	7.34Y	122.3	0.08	2.68	33.80	15	727	159	98	0.38	0.1	3.690	0.141	97	47	1	102
PL.57030	PL.57028	ABC	#1/0 ACSR	7.34Y	122.3	0.02	2.71	29.04	13	630	111	98	0.11	0.0	3.739	0.049	0	0	0	101
PL.57032	PL.57030	A	#4 ACSR	7.34Y	122.3	0.00	2.71	3.75	3	27	5	98	0.00	0.0	3.744	0.005	0	0	0	3
PD.8254	PL.57032	A	25T	7.34Y	122.3	0.00	2.71	3.75	0	27	5	98	0.00	0.0	3.744	0.005	0	0	0	3
PL.57033	PD.8254	A	#4 ACSR	7.34Y	122.3	0.01	2.72	3.75	3	27	5	98	0.00	0.0	3.801	0.056	18	3	2	3
PL.57031	PL.57033	A	#4 ACSR	7.34Y	122.3	0.00	2.72	1.33	1	10	2	98	0.00	0.0	3.857	0.057	10	2	1	1
PL.36669	PL.57031	A	#4 ACSR	7.34Y	122.3	0.00	2.72	0.00	0	0	0	100	0.00	0.0	3.877	0.019	0	0	0	0
PL.36670	PL.36669	A	#4 ACSR	7.34Y	122.3	0.00	2.72	0.00	0	0	0	100	0.00	0.0	3.917	0.040	0	0	0	0
PL.36668	PL.36670	A	#4 ACSR	7.34Y	122.3	0.00	2.72	0.00	0	0	0	100	0.00	0.0	3.930	0.013	0	0	0	0
PL.33219	PL.36669	A	#4 ACSR	7.34Y	122.3	0.00	2.72	0.00	0	0	0	100	0.00	0.0	3.909	0.032	0	0	0	0
PL.57029	PL.57030	ABC	#1/0 ACSR	7.34Y	122.3	0.01	2.72	27.79	12	602	106	98	0.05	0.0	3.766	0.027	0	0	0	98
PL.36230	PL.57029	ABC	#1/0 ACSR	7.34Y	122.3	0.00	2.72	27.79	12	602	106	98	0.00	0.0	3.767	0.001	0	0	0	98
PD.5866	PL.36230	ABC	50L	7.34Y	122.3	0.00	2.72	27.79	56	602	106	98	0.00	0.0	3.767	0.001	0	0	0	98
PL.57034	PD.5866	ABC	#1/0 ACSR	7.34Y	122.3	0.03	2.75	27.79	12	602	106	98	0.11	0.0	3.823	0.056	11	2	3	98
PL.64101	PL.57034	A	#1/0 ACSR	7.34Y	122.3	0.00	2.75	0.54	0	4	1	97	0.00	0.0	3.826	0.003	0	0	0	1
PD.9499	PL.64101	A	20T	7.34Y	122.3	0.00	2.75	0.54	0	4	1	97	0.00	0.0	3.826	0.003	0	0	0	1
PL.64102	PD.9499	A	#1/0 ACSR	7.34Y	122.3	0.00	2.75	0.54	0	4	1	97	0.00	0.0	3.860	0.034	4	1	1	1
PL.72490	PL.64102	A	#1/0 ACSR	7.34Y	122.3	0.00	2.75	0.00	0	0	0	100	0.00	0.0	3.927	0.067	0	0	0	0
PL.57035	PL.57034	ABC	#1/0 ACSR	7.33Y	122.2	0.02	2.77	27.09	12	587	103	98	0.10	0.0	3.876	0.054	12	2	2	94
PL.57041	PL.57035	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.78	26.15	11	567	100	98	0.05	0.0	3.905	0.028	0	0	0	90
PL.57043	PL.57041	A	6 A (CWC)	7.33Y	122.2	0.00	2.79	8.72	6	63	11	99	0.00	0.0	3.909	0.004	0	0	0	8
PD.8257	PL.57043	A	30QA	7.33Y	122.2	0.00	2.79	8.72	29	63	11	99	0.00	0.0	3.909	0.004	0	0	0	8
PL.57044	PD.8257	A	6 A (CWC)	7.33Y	122.2	0.05	2.84	8.72	6	63	11	99	0.02	0.0	4.060	0.151	12	2	2	8
PL.57042	PL.57044	A	6 A (CWC)	7.33Y	122.2	0.01	2.85	7.04	5	51	9	98	0.00	0.0	4.089	0.029	4	1	1	6

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PL.36231	PL.57042	A	6 A (CWC)	7.33Y	122.1	0.05	2.90	6.43	5	46	8	99	0.02	0.0	4.288	0.199	11	2	1	5
PL.36232	PL.36231	A	6 A (CWC)	7.33Y	122.1	0.01	2.90	4.91	4	35	6	99	0.00	0.0	4.324	0.036	10	2	1	4
PL.36671	PL.36232	A	6 A (CWC)	7.33Y	122.1	0.01	2.91	3.37	2	24	4	99	0.00	0.0	4.411	0.087	10	2	1	2
PL.36672	PL.36671	A	6 A (CWC)	7.33Y	122.1	0.00	2.92	2.02	1	15	3	98	0.00	0.0	4.427	0.016	15	3	1	1
PL.33726	PL.36232	A	#2 ACSR	7.33Y	122.1	0.00	2.90	0.12	0	1	0	100	0.00	0.0	4.347	0.023	1	0	1	1
PL.57045	PL.57041	ABC	#1/0 ACSR	7.33Y	122.2	0.02	2.81	16.58	7	359	63	98	0.06	0.0	3.990	0.085	0	0	0	56
PL.57046	PL.57045	A	6 A (CWC)	7.33Y	122.2	0.00	2.81	1.54	1	11	2	98	0.00	0.0	3.993	0.003	0	0	0	1
PD.8258	PL.57046	A	25QA	7.33Y	122.2	0.00	2.81	1.54	6	11	2	98	0.00	0.0	3.993	0.003	0	0	0	1
PL.57047	PD.8258	A	6 A (CWC)	7.33Y	122.2	0.00	2.81	1.54	1	11	2	98	0.00	0.0	4.057	0.063	11	2	1	1
PL.57050	PL.57045	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.82	15.48	7	335	59	98	0.03	0.0	4.032	0.042	0	0	0	53
PL.57051	PL.57050	A	#2 ACSR	7.33Y	122.2	0.00	2.82	1.24	1	9	2	98	0.00	0.0	4.034	0.002	0	0	0	1
PD.5736	PL.57051	A	40QA	7.33Y	122.2	0.00	2.82	1.24	3	9	2	98	0.00	0.0	4.034	0.002	0	0	0	1
PL.57052	PD.5736	A	#2 ACSR	7.33Y	122.2	0.00	2.82	1.24	1	9	2	98	0.00	0.0	4.082	0.048	9	2	1	1
PL.57053	PL.57050	ABC	#1/0 ACSR	7.33Y	122.1	0.04	2.86	15.07	7	326	58	98	0.09	0.0	4.180	0.149	12	2	1	52
PL.56430	PL.57053	ABC	#1/0 ACSR	7.33Y	122.1	0.01	2.87	14.06	6	304	54	98	0.02	0.0	4.220	0.040	1	0	1	50
PL.56431	PL.56430	ABC	#1/0 ACSR	7.33Y	122.1	0.01	2.88	13.99	6	303	53	99	0.02	0.0	4.262	0.042	1	0	1	49
PL.56433	PL.56431	ABC	#1/0 ACSR	7.33Y	122.1	0.02	2.89	13.96	6	302	53	98	0.03	0.0	4.329	0.067	0	0	0	48
PL.56435	PL.56433	ABC	#1/0 ACSR	7.32Y	122.1	0.05	2.94	13.96	6	302	53	98	0.11	0.0	4.543	0.213	0	0	0	48
PL.56438	PL.56435	ABC	#1/0 ACSR	7.32Y	122.0	0.02	2.97	13.37	6	289	51	98	0.05	0.0	4.642	0.099	6	1	2	47
PL.56441	PL.56438	ABC	#1/0 ACSR	7.32Y	122.0	0.02	2.99	13.07	6	283	50	98	0.05	0.0	4.751	0.109	8	1	1	45
PL.56446	PL.56441	B	6 A (CWC)	7.32Y	122.0	0.00	2.99	2.74	2	20	3	99	0.00	0.0	4.755	0.004	0	0	0	2
PD.8264	PL.56446	B	20QA	7.32Y	122.0	0.00	2.99	2.74	14	20	3	99	0.00	0.0	4.755	0.004	0	0	0	2
PL.56447	PD.8264	B	6 A (CWC)	7.32Y	122.0	0.01	3.00	2.74	2	20	3	99	0.00	0.0	4.838	0.083	0	0	0	2
PL.56443	PL.56447	B	#2 ACSR	7.32Y	122.0	0.00	3.00	2.74	2	20	3	99	0.00	0.0	4.854	0.016	9	2	1	2
PL.56444	PL.56443	B	#2 ACSR	7.32Y	122.0	0.00	3.00	1.46	1	11	2	98	0.00	0.0	4.870	0.016	0	0	0	1
PL.56445	PL.56444	B	#2 ACSR	7.32Y	122.0	0.00	3.00	1.46	1	11	2	98	0.00	0.0	4.895	0.025	11	2	1	1
PL.56442	PL.56447	B	6 A (CWC)	7.32Y	122.0	0.00	3.00	0.00	0	0	0	100	0.00	0.0	4.872	0.033	0	0	0	0
PL.57188	PL.56441	ABC	#1/0 ACSR	7.32Y	122.0	0.01	3.00	11.80	5	255	45	98	0.02	0.0	4.807	0.056	2	0	1	42
PL.57479	PL.57188	ABC	#1/0 ACSR	7.32Y	122.0	0.01	3.01	11.70	5	253	44	99	0.01	0.0	4.843	0.036	10	2	1	41
PL.57480	PL.57479	ABC	#1/0 ACSR	7.32Y	122.0	0.02	3.03	11.24	5	243	43	98	0.03	0.0	4.946	0.103	19	3	2	40
PL.57193	PL.57480	ABC	#1/0 ACSR	7.32Y	122.0	0.01	3.04	9.28	4	201	35	99	0.02	0.0	5.034	0.088	3	1	1	34

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: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.57192	PL.57193	ABC	#4 ACSR	7.32Y	121.9	0.03	3.07	8.80	7	190	33	99	0.05	0.0	5.135	0.101	0	0	0	31
PL.34524	PL.57192	ABC	#4 ACSR	7.31Y	121.8	0.11	3.18	7.92	6	171	30	98	0.15	0.1	5.504	0.369	0	0	0	27
PL.36486	PL.34524	ABC	#4 ACSR	7.31Y	121.8	0.02	3.21	7.92	6	171	30	98	0.03	0.0	5.578	0.074	0	0	0	27
PL.34523	PL.36486	ABC	#4 ACSR	7.31Y	121.8	0.01	3.22	7.92	6	171	30	98	0.02	0.0	5.626	0.048	7	1	1	27
PL.51865	PL.34523	C	#4 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	5.757	0.131	0	0	0	0
PL.51866	PL.51865	C	#4 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	5.807	0.050	0	0	0	0
PL.53164	PL.51866	C	#4 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	5.869	0.062	0	0	0	0
PL.53165	PL.53164	C	#4 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	5.941	0.072	0	0	0	0
PL.53058	PL.53165	C	#2 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	6.007	0.066	0	0	0	0
PL.53059	PL.53058	C	#2 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	6.053	0.046	0	0	0	0
PL.53060	PL.53059	C	#2 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	6.120	0.067	0	0	0	0
PL.53162	PL.53060	C	#2 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	6.187	0.067	0	0	0	0
PL.53163	PL.53162	C	#2 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	6.259	0.072	0	0	0	0
PL.53061	PL.53163	C	#2 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	6.435	0.176	0	0	0	0
PL.51961	PL.53061	C	#2 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	6.487	0.052	0	0	0	0
PL.51962	PL.51961	C	1/0 AL URD	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	6.552	0.065	0	0	0	0
PL.52052	PL.51865	C	#4 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	5.855	0.098	0	0	0	0
PL.52053	PL.52052	C	#4 ACSR	7.31Y	121.8	0.00	3.22	0.00	0	0	0	100	0.00	0.0	5.878	0.023	0	0	0	0
PL.34259	PL.34523	ABC	#4 ACSR	7.31Y	121.8	0.02	3.24	7.61	6	164	29	98	0.03	0.0	5.711	0.085	0	0	1	26
PL.34522	PL.34259	ABC	#4 ACSR	7.30Y	121.7	0.03	3.27	7.59	6	164	29	98	0.03	0.0	5.802	0.091	2	0	1	25
PL.34258	PL.34522	ABC	#4 ACSR	7.30Y	121.7	0.03	3.30	7.49	6	162	28	99	0.04	0.0	5.921	0.119	0	0	0	24
PL.35206	PL.34258	ABC	#4 ACSR	7.30Y	121.7	0.00	3.30	0.00	0	0	0	100	0.00	0.0	5.947	0.026	0	0	0	0
PL.34666	PL.34258	ABC	#4 ACSR	7.30Y	121.7	0.01	3.31	7.49	6	162	28	99	0.01	0.0	5.963	0.042	11	2	1	24
PL.35695	PL.34666	ABC	#4 ACSR	7.30Y	121.7	0.02	3.34	6.99	5	151	26	99	0.03	0.0	6.058	0.095	9	2	2	23
PL.36198	PL.35695	ABC	#4 ACSR	7.30Y	121.6	0.02	3.36	6.58	5	142	25	98	0.03	0.0	6.157	0.099	5	1	1	21
PL.35835	PL.36198	ABC	#4 ACSR	7.30Y	121.6	0.01	3.37	6.36	5	137	24	98	0.01	0.0	6.201	0.043	10	2	1	20
PL.35243	PL.35835	ABC	#4 ACSR	7.29Y	121.6	0.04	3.42	5.90	5	127	22	99	0.05	0.0	6.401	0.201	0	0	0	19
PL.36504	PL.35243	ABC	#4 ACSR	7.29Y	121.6	0.01	3.43	5.84	4	126	22	99	0.01	0.0	6.447	0.045	0	0	0	18
PL.57696	PL.36504	A	#4 ACSR	7.29Y	121.6	0.02	3.45	10.11	8	73	13	98	0.01	0.0	6.496	0.049	6	1	1	11
PL.57697	PL.57696	A	#4 ACSR	7.29Y	121.5	0.03	3.47	9.30	7	67	12	98	0.01	0.0	6.566	0.071	12	2	2	10
PL.63092	PL.57697	A	#4 ACSR	7.29Y	121.5	0.02	3.50	7.11	5	51	9	98	0.01	0.0	6.646	0.080	0	0	0	7

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

Balanced Voltage Drop Report
Source: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.63093	PL.63092	A	#4 ACSR	7.29Y	121.5	0.00	3.50	7.11	5	51	9	98	0.00	0.0	6.646	0.000	0	0	0	7
PL.63091	PL.63093	A	#4 ACSR	7.29Y	121.5	0.01	3.51	7.11	5	51	9	98	0.00	0.0	6.684	0.039	14	2	1	7
PL.36999	PL.63091	A	#4 ACSR	7.29Y	121.5	0.02	3.53	5.18	4	37	7	98	0.01	0.0	6.792	0.107	0	0	0	6
PL.60631	PL.36999	A	#4 ACSR	7.29Y	121.5	0.01	3.54	5.18	4	37	7	98	0.00	0.0	6.832	0.041	4	1	1	6
PL.60632	PL.60631	A	#1/0 ACSR	7.29Y	121.5	0.01	3.55	4.59	2	33	6	98	0.00	0.0	6.884	0.051	0	0	0	5
PL.64813	PL.60632	A	#1/0 ACSR	7.29Y	121.4	0.01	3.55	3.21	1	23	4	99	0.00	0.0	7.003	0.119	7	1	1	4
PL.64814	PL.64813	A	#1/0 ACSR	7.29Y	121.4	0.00	3.55	2.19	1	16	3	98	0.00	0.0	7.051	0.048	16	3	3	3
PL.60633	PL.60632	A	#1/0 ACSR	7.29Y	121.5	0.00	3.55	1.38	1	10	2	98	0.00	0.0	6.929	0.045	10	2	1	1
PL.34814	PL.36999	A	#4 ACSR	7.29Y	121.5	0.00	3.53	0.00	0	0	0	100	0.00	0.0	6.843	0.051	0	0	0	0
PL.34481	PL.57697	A	#4 ACSR	7.29Y	121.5	0.00	3.47	0.45	0	3	1	95	0.00	0.0	6.608	0.042	3	1	1	1
PL.34650	PL.36504	ABC	6 A (CWC)	7.29Y	121.6	0.00	3.43	2.47	2	53	9	99	0.00	0.0	6.474	0.027	9	2	1	7
PL.37000	PL.34650	ABC	6 A (CWC)	7.29Y	121.5	0.06	3.49	2.04	1	44	8	98	0.02	0.0	7.186	0.713	0	0	0	6
PL.35244	PL.37000	A	6 A (CWC)	7.29Y	121.5	0.01	3.49	1.45	1	10	2	98	0.00	0.0	7.361	0.174	10	2	1	1
PL.37001	PL.37000	ABC	6 A (CWC)	7.29Y	121.5	0.01	3.49	1.55	1	33	6	98	0.00	0.0	7.349	0.163	0	0	0	5
PL.37002	PL.37001	ABC	6 A (CWC)	7.29Y	121.5	0.01	3.50	1.00	1	22	4	98	0.00	0.0	7.531	0.182	0	0	0	3
PL.64296	PL.37002	A	#4 ACSR	7.29Y	121.5	0.00	3.50	3.00	2	22	4	98	0.00	0.0	7.534	0.003	0	0	0	3
PD.9516	PL.64296	A	25T	7.29Y	121.5	0.00	3.50	3.00	0	22	4	98	0.00	0.0	7.534	0.003	0	0	0	3
PL.64297	PD.9516	A	#4 ACSR	7.29Y	121.5	0.02	3.52	3.00	2	22	4	98	0.00	0.0	7.692	0.158	0	0	0	3
PL.33559	PL.64297	A	#2 ACSR	7.29Y	121.5	0.00	3.52	0.57	0	4	1	97	0.00	0.0	7.721	0.029	4	1	2	2
PL.37005	PL.64297	A	#4 ACSR	7.29Y	121.5	0.00	3.53	2.43	2	17	3	98	0.00	0.0	7.739	0.047	17	3	1	1
PL.37003	PL.37001	A	6 A (CWC)	7.29Y	121.5	0.01	3.50	1.67	1	12	2	99	0.00	0.0	7.423	0.074	0	0	0	2
PL.37004	PL.37003	A	6 A (CWC)	7.29Y	121.5	0.00	3.50	1.67	1	12	2	99	0.00	0.0	7.440	0.017	12	2	2	2
PL.34071	PL.35243	A	#4 ACSR	7.29Y	121.6	0.00	3.42	0.21	0	1	0	100	0.00	0.0	6.493	0.092	0	0	0	1
PL.64294	PL.34071	A	#1/0 ACSR	7.29Y	121.6	0.00	3.42	0.21	0	1	0	100	0.00	0.0	6.591	0.098	1	0	1	1
PL.35988	PL.57192	A	#4 ACSR	7.32Y	121.9	0.00	3.08	2.19	2	16	3	98	0.00	0.0	5.176	0.042	16	3	1	1
PL.65746	PL.57192	C	#4 ACSR	7.32Y	121.9	0.00	3.07	0.44	0	3	1	95	0.00	0.0	5.138	0.004	0	0	0	3
PD.9586	PL.65746	C	20T	7.32Y	121.9	0.00	3.07	0.44	0	3	1	95	0.00	0.0	5.138	0.004	0	0	0	3
PL.65747	PD.9586	C	#4 ACSR	7.32Y	121.9	0.00	3.07	0.44	0	3	1	95	0.00	0.0	5.203	0.065	1	0	1	3
PL.34460	PL.65747	C	#4 ACSR	7.32Y	121.9	0.00	3.08	0.30	0	2	0	100	0.00	0.0	5.439	0.236	2	0	2	2
PL.58433	PL.57193	B	6 A (CWC)	7.32Y	122.0	0.00	3.04	1.05	1	8	1	99	0.00	0.0	5.037	0.003	0	0	0	2
PD.8589	PL.58433	B	25T	7.32Y	122.0	0.00	3.04	1.05	0	8	1	99	0.00	0.0	5.037	0.003	0	0	0	2

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Balanced Voltage Drop Report
Source: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.58434	PD.8589	B	6 A (CWC)	7.32Y	122.0	0.00	3.04	1.05	1	8	1	99	0.00	0.0	5.115	0.078	8	1	1	2
PL.58431	PL.58434	B	6 A (CWC)	7.32Y	122.0	0.00	3.04	0.00	0	0	0	100	0.00	0.0	5.180	0.065	0	0	1	1
PL.58432	PL.58434	B	6 A (CWC)	7.32Y	122.0	0.00	3.04	0.00	0	0	0	100	0.00	0.0	5.164	0.048	0	0	0	0
PL.57190	PL.57480	A	6 A (CWC)	7.32Y	122.0	0.00	3.03	3.24	2	23	4	99	0.00	0.0	4.952	0.006	0	0	0	4
PD.8265	PL.57190	A	20QA	7.32Y	122.0	0.00	3.03	3.24	16	23	4	99	0.00	0.0	4.952	0.006	0	0	0	4
PL.57191	PD.8265	A	6 A (CWC)	7.32Y	122.0	0.01	3.04	3.24	2	23	4	99	0.00	0.0	5.053	0.101	9	2	1	4
PL.57189	PL.57191	A	6 A (CWC)	7.32Y	122.0	0.00	3.04	1.96	1	14	2	99	0.00	0.0	5.124	0.071	7	1	1	3
PL.35089	PL.57189	A	6 A (CWC)	7.32Y	122.0	0.00	3.05	1.00	1	7	1	99	0.00	0.0	5.203	0.079	7	1	2	2
PL.34903	PL.35089	A	6 A (CWC)	7.32Y	122.0	0.00	3.05	0.00	0	0	0	100	0.00	0.0	5.341	0.138	0	0	0	0
PL.34997	PL.34903	A	6 A (CWC)	7.32Y	122.0	0.00	3.05	0.00	0	0	0	100	0.00	0.0	5.428	0.087	0	0	0	0
PL.56439	PL.56438	C	#4 ACSR	7.32Y	122.0	0.00	2.97	0.00	0	0	0	100	0.00	0.0	4.646	0.004	0	0	0	0
PD.8263	PL.56439	C	20QA	7.32Y	122.0	0.00	2.97	0.00	0	0	0	100	0.00	0.0	4.646	0.004	0	0	0	0
PL.56440	PD.8263	C	#4 ACSR	7.32Y	122.0	0.00	2.97	0.00	0	0	0	100	0.00	0.0	4.850	0.204	0	0	0	0
PL.56436	PL.56435	A	#4 ACSR	7.32Y	122.1	0.00	2.94	1.79	1	13	2	99	0.00	0.0	4.547	0.004	0	0	0	1
PD.8262	PL.56436	A	10QA	7.32Y	122.1	0.00	2.94	1.79	0	13	2	99	0.00	0.0	4.547	0.004	0	0	0	1
PL.56437	PD.8262	A	#4 ACSR	7.32Y	122.1	0.00	2.95	1.79	1	13	2	99	0.00	0.0	4.572	0.025	0	0	0	1
PL.56434	PL.56437	A	#4 ACSR	7.32Y	122.1	0.00	2.95	1.79	1	13	2	99	0.00	0.0	4.636	0.064	13	2	1	1
PL.56432	PL.56431	A	#4 ACSR	7.33Y	122.1	0.00	2.88	0.00	0	0	0	100	0.00	0.0	4.266	0.004	0	0	0	0
PL.57054	PL.57053	A	#4 ACSR	7.33Y	122.1	0.00	2.86	1.39	1	10	2	98	0.00	0.0	4.185	0.005	0	0	0	1
PD.8260	PL.57054	A	20QA	7.33Y	122.1	0.00	2.86	1.39	7	10	2	98	0.00	0.0	4.185	0.005	0	0	0	1
PL.56429	PD.8260	A	#4 ACSR	7.33Y	122.1	0.00	2.86	1.39	1	10	2	98	0.00	0.0	4.304	0.119	10	2	1	1
PL.57048	PL.57045	C	6 A (CWC)	7.33Y	122.2	0.00	2.81	1.74	1	13	2	99	0.00	0.0	3.993	0.003	0	0	0	2
PD.8259	PL.57048	C	25QA	7.33Y	122.2	0.00	2.81	1.74	7	13	2	99	0.00	0.0	3.993	0.003	0	0	0	2
PL.57049	PD.8259	C	6 A (CWC)	7.33Y	122.2	0.00	2.81	1.74	1	13	2	99	0.00	0.0	4.029	0.036	13	2	2	2
PL.57040	PL.57041	A	#4 ACSR	7.33Y	122.2	0.00	2.79	20.00	15	144	25	99	0.00	0.0	3.909	0.004	0	0	0	26
PD.8256	PL.57040	A	40QA	7.33Y	122.2	0.00	2.79	20.00	50	144	25	99	0.00	0.0	3.909	0.004	0	0	0	26
PL.57039	PD.8256	A	#4 ACSR	7.33Y	122.2	0.02	2.81	20.00	15	144	25	99	0.03	0.0	3.940	0.031	22	4	3	26
PL.57038	PL.57039	A	#4 ACSR	7.33Y	122.2	0.02	2.84	16.93	13	122	21	99	0.02	0.0	3.973	0.033	13	2	1	23
PL.34451	PL.57038	A	#4 ACSR	7.33Y	122.2	0.01	2.85	15.18	12	110	19	99	0.01	0.0	3.992	0.019	1	0	1	22
PL.33661	PL.34451	A	#4 ACSR	7.33Y	122.1	0.05	2.90	15.00	12	108	19	98	0.04	0.0	4.068	0.077	0	0	0	21
PL.37012	PL.33661	A	#4 ACSR	7.32Y	122.1	0.05	2.94	13.74	11	99	17	99	0.03	0.0	4.151	0.082	13	2	4	20

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: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PL.37011	PL.37012	A	#4 ACSR	7.32Y	122.0	0.03	2.97	11.99	9	86	15	99	0.02	0.0	4.207	0.057	0	0	0	16
PL.37008	PL.37011	A	#2 ACSR	7.32Y	122.0	0.00	2.97	0.90	1	6	1	99	0.00	0.0	4.228	0.020	0	0	0	3
PL.37009	PL.37008	A	#2 ACSR	7.32Y	122.0	0.00	2.98	0.90	1	6	1	99	0.00	0.0	4.333	0.105	0	0	0	3
PL.35574	PL.37009	A	#2 ACSR	7.32Y	122.0	0.00	2.98	0.00	0	0	0	100	0.00	0.0	4.370	0.036	0	0	0	0
PL.37010	PL.37009	A	#2 ACSR	7.32Y	122.0	0.00	2.98	0.90	1	6	1	99	0.00	0.0	4.366	0.033	6	1	3	3
PL.37006	PL.37011	A	#2 ACSR	7.32Y	122.0	0.03	3.01	9.43	5	68	12	98	0.02	0.0	4.319	0.112	0	0	0	12
PL.37007	PL.37006	A	#2 ACSR	7.32Y	122.0	0.02	3.03	4.33	2	31	5	99	0.01	0.0	4.518	0.199	6	1	1	5
PL.35710	PL.37007	A	#2 ACSR	7.32Y	122.0	0.00	3.03	1.49	1	11	2	98	0.00	0.0	4.590	0.072	11	2	1	1
PL.34897	PL.37007	A	#1/0 ACSR	7.32Y	122.0	0.00	3.03	2.00	1	14	3	98	0.00	0.0	4.624	0.106	14	3	3	3
PL.35088	PL.37006	A	#4 ACSR	7.32Y	122.0	0.01	3.01	5.10	4	37	6	99	0.00	0.0	4.382	0.063	37	6	7	7
PL.35245	PL.37011	A	#4 ACSR	7.32Y	122.0	0.01	2.98	1.66	1	12	2	99	0.00	0.0	4.435	0.228	12	2	1	1
PL.34430	PL.33661	A	#4 ACSR	7.33Y	122.1	0.00	2.90	1.26	1	9	2	98	0.00	0.0	4.111	0.042	9	2	1	1
PL.57036	PL.57035	B	#2 ACSR	7.33Y	122.2	0.00	2.77	1.19	1	9	2	98	0.00	0.0	3.880	0.003	0	0	0	2
PD.8255	PL.57036	B	30QA	7.33Y	122.2	0.00	2.77	1.19	4	9	2	98	0.00	0.0	3.880	0.003	0	0	0	2
PL.57037	PD.8255	B	#2 ACSR	7.33Y	122.2	0.00	2.77	1.19	1	9	2	98	0.00	0.0	3.892	0.012	9	2	2	2
PL.57027	PL.57026	C	#4 ACSR	7.34Y	122.4	0.00	2.61	11.80	9	85	15	98	0.00	0.0	3.553	0.004	0	0	0	12
PD.8253	PL.57027	C	40QA	7.34Y	122.4	0.00	2.61	11.80	30	85	15	98	0.00	0.0	3.553	0.004	0	0	0	12
PL.57025	PD.8253	C	#4 ACSR	7.34Y	122.3	0.05	2.66	11.80	9	85	15	98	0.03	0.0	3.650	0.097	0	0	0	12
PL.57024	PL.57025	C	#4 ACSR	7.34Y	122.3	0.00	2.66	1.39	1	10	2	98	0.00	0.0	3.720	0.070	6	1	1	2
PL.36983	PL.57024	C	#4 ACSR	7.34Y	122.3	0.00	2.66	0.56	0	4	1	97	0.00	0.0	3.782	0.063	4	1	1	1
PL.57023	PL.57025	C	#4 ACSR	7.34Y	122.3	0.02	2.68	10.41	8	75	13	99	0.01	0.0	3.692	0.043	0	0	0	10
PL.36987	PL.57023	C	#4 ACSR	7.34Y	122.3	0.02	2.70	7.02	5	51	9	98	0.01	0.0	3.749	0.056	0	0	1	6
PL.36988	PL.36987	C	#4 ACSR	7.34Y	122.3	0.01	2.70	3.47	3	25	4	99	0.00	0.0	3.800	0.051	0	0	0	4
PL.36989	PL.36988	C	#4 ACSR	7.34Y	122.3	0.01	2.71	3.47	3	25	4	99	0.00	0.0	3.843	0.043	11	2	1	4
PL.35689	PL.36989	C	#2 ACSR	7.34Y	122.3	0.00	2.71	0.00	0	0	0	100	0.00	0.0	3.928	0.085	0	0	0	0
PL.33370	PL.36989	C	#4 ACSR	7.34Y	122.3	0.02	2.73	1.99	2	14	3	98	0.00	0.0	4.066	0.222	3	1	1	3
PL.33371	PL.33370	C	#4 ACSR	7.34Y	122.3	0.00	2.73	1.57	1	11	2	98	0.00	0.0	4.126	0.060	2	0	1	2
PL.34533	PL.33371	C	#4 ACSR	7.34Y	122.3	0.00	2.73	1.30	1	9	2	98	0.00	0.0	4.196	0.071	9	2	1	1
PL.57891	PL.36987	C	#4 ACSR	7.34Y	122.3	0.02	2.71	3.55	3	26	4	99	0.00	0.0	3.949	0.200	26	4	1	1
PL.36984	PL.57023	C	#4 ACSR	7.34Y	122.3	0.01	2.69	3.39	3	24	4	99	0.00	0.0	3.750	0.058	1	0	1	4
PL.36985	PL.36984	C	#4 ACSR	7.34Y	122.3	0.01	2.69	3.27	3	24	4	99	0.00	0.0	3.793	0.043	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: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	Element KW	KVAR	Cons On	Cons Thru
PL.35256	PL.36985	C	#4 ACSR	7.34Y	122.3	0.00	2.69	1.60	1	12	2	99	0.00	0.0	3.821	0.027	12	2	1	1
PL.36986	PL.36985	C	#4 ACSR	7.34Y	122.3	0.00	2.69	1.67	1	12	2	99	0.00	0.0	3.849	0.056	12	2	2	2
PL.57015	PL.57021	C	6 A (CWC)	7.34Y	122.4	0.16	2.61	37.37	27	271	48	98	0.33	0.1	3.417	0.099	7	1	1	35
PL.35779	PL.57015	C	6 A (CWC)	7.34Y	122.4	0.00	2.62	36.41	26	263	47	98	0.00	0.0	3.418	0.001	0	0	0	34
PD.5865	PL.35779	C	70L	7.34Y	122.4	0.00	2.62	36.41	52	263	47	98	0.00	0.0	3.418	0.001	0	0	0	34
PL.35780	PD.5865	C	6 A (CWC)	7.33Y	122.2	0.14	2.76	36.41	26	263	47	98	0.29	0.1	3.507	0.089	0	0	0	34
PL.60615	PL.35780	C	6 A (CWC)	7.33Y	122.1	0.12	2.88	34.83	25	252	44	99	0.23	0.1	3.587	0.079	0	0	1	33
PL.60616	PL.60615	C	6 A (CWC)	7.33Y	122.1	0.03	2.92	34.82	25	251	44	98	0.07	0.0	3.609	0.022	0	0	0	32
PL.35084	PL.60616	C	#2 ACSR	7.32Y	122.1	0.01	2.92	2.57	1	19	3	99	0.00	0.0	3.720	0.111	11	2	1	3
PL.60611	PL.35084	C	#2 ACSR	7.32Y	122.1	0.00	2.92	1.08	1	8	1	99	0.00	0.0	3.766	0.047	8	1	1	2
PL.60612	PL.60611	C	#2 ACSR	7.32Y	122.1	0.00	2.92	0.01	0	0	0	100	0.00	0.0	3.818	0.052	0	0	1	1
PL.35083	PL.60616	C	6 A (CWC)	7.31Y	121.9	0.18	3.10	32.25	23	233	41	98	0.32	0.1	3.734	0.125	0	0	0	29
PL.35201	PL.35083	C	#2 ACSR	7.31Y	121.9	0.00	3.10	1.96	1	14	2	99	0.00	0.0	3.788	0.054	14	2	1	1
PL.36976	PL.35083	C	6 A (CWC)	7.31Y	121.8	0.06	3.15	30.29	22	218	38	99	0.10	0.0	3.778	0.044	0	0	0	28
PL.36975	PL.36976	C	6 A (CWC)	7.31Y	121.8	0.07	3.22	21.48	15	155	27	99	0.08	0.1	3.852	0.074	0	0	0	15
PL.35781	PL.36975	C	#4 ACSR	7.31Y	121.8	0.01	3.23	3.67	3	26	5	98	0.00	0.0	3.917	0.065	12	2	1	2
PL.35784	PL.35781	C	#4 ACSR	7.31Y	121.8	0.00	3.23	1.95	2	14	2	99	0.00	0.0	3.934	0.017	14	2	1	1
PL.60697	PL.36975	C	6 A (CWC)	7.31Y	121.8	0.02	3.25	15.91	11	114	20	98	0.02	0.0	3.885	0.033	9	2	1	10
PL.60698	PL.60697	C	6 A (CWC)	7.30Y	121.7	0.03	3.27	14.70	10	106	19	98	0.02	0.0	3.946	0.061	78	14	6	9
PL.36980	PL.60698	C	6 A (CWC)	7.30Y	121.7	0.01	3.28	3.88	3	28	5	98	0.00	0.0	4.005	0.059	28	5	3	3
PL.33687	PL.36975	C	#4 ACSR	7.31Y	121.8	0.00	3.23	1.90	1	14	2	99	0.00	0.0	3.885	0.033	14	2	3	3
PL.36978	PL.36976	C	6 A (CWC)	7.31Y	121.8	0.04	3.20	8.81	6	63	11	99	0.02	0.0	3.894	0.116	9	2	2	13
PL.36981	PL.36978	C	#4 ACSR	7.31Y	121.8	0.01	3.20	2.29	2	16	3	98	0.00	0.0	3.983	0.089	8	1	1	3
PL.36982	PL.36981	C	#4 ACSR	7.31Y	121.8	0.00	3.20	1.19	1	9	2	98	0.00	0.0	4.014	0.031	9	2	2	2
PL.36979	PL.36978	C	6 A (CWC)	7.31Y	121.8	0.04	3.23	5.28	4	38	7	98	0.01	0.0	4.069	0.176	7	1	1	8
PL.36990	PL.36979	C	#4 ACSR	7.31Y	121.8	0.00	3.24	2.88	2	21	4	98	0.00	0.0	4.105	0.036	4	1	1	4
PL.36993	PL.36990	C	#4 ACSR	7.31Y	121.8	0.01	3.24	2.38	2	17	3	98	0.00	0.0	4.165	0.060	0	0	1	3
PL.33671	PL.36993	C	#1/0 ACSR	7.31Y	121.8	0.00	3.24	0.00	0	0	0	100	0.00	0.0	4.338	0.174	0	0	0	0
PL.36994	PL.36993	C	#4 ACSR	7.30Y	121.7	0.01	3.25	2.37	2	17	3	98	0.00	0.0	4.239	0.074	0	0	0	2
PL.35202	PL.36994	C	#4 ACSR	7.30Y	121.7	0.00	3.25	0.65	1	5	1	98	0.00	0.0	4.338	0.099	5	1	1	1
PL.36995	PL.36994	C	#4 ACSR	7.30Y	121.7	0.03	3.28	1.72	1	12	2	99	0.00	0.0	4.996	0.757	12	2	1	1

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Balanced Voltage Drop Report
Source: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.36991	PL.36979	C	6 A (CWC)	7.31Y	121.8	0.00	3.24	1.47	1	11	2	98	0.00	0.0	4.114	0.044	3	0	1	3
PL.36992	PL.36991	C	6 A (CWC)	7.31Y	121.8	0.00	3.24	0.63	0	5	1	98	0.00	0.0	4.249	0.135	5	1	1	1
PL.35327	PL.36991	C	6 A (CWC)	7.31Y	121.8	0.00	3.24	0.49	0	4	1	97	0.00	0.0	4.171	0.057	4	1	1	1
PL.34961	PL.36976	C	6 A (CWC)	7.31Y	121.8	0.00	3.15	0.00	0	0	0	100	0.00	0.0	3.799	0.021	0	0	0	0
PL.33929	PL.35780	C	6 A (CWC)	7.33Y	122.2	0.00	2.76	1.58	1	11	2	98	0.00	0.0	3.632	0.124	11	2	1	1
CP.57	PL.34967	ABC	Cap (300)	7.38Y	123.0	0.00	2.01	0.00	0	0	0	100	0.00	0.0	2.832	0.124	0	0	0	0
PL.35286	PL.35134	ABC	#3/0 ACSR	7.39Y	123.2	0.06	1.85	107.36	36	2335	464	98	0.86	0.0	2.566	0.044	0	0	0	283
PL.35136	PL.35286	ABC	#1/0 ACSR	7.39Y	123.2	0.00	1.85	3.75	2	75	36	90	0.00	0.0	2.584	0.018	75	36	1	1
PL.56326	PL.35286	ABC	#3/0 ACSR	7.39Y	123.1	0.05	1.90	103.74	35	2260	427	98	0.81	0.0	2.611	0.045	3	1	1	282
PL.56325	PL.56326	ABC	#3/0 ACSR	7.38Y	123.0	0.07	1.97	103.60	35	2256	425	98	0.98	0.0	2.665	0.054	0	0	0	281
PD.5872-A	PL.56325	ABC	Closed	7.38Y	123.0	0.00	1.97	103.60	0	2255	424	98	0.00	0.0	2.665	0.054	0	0	0	281
PD.5872-B	PD.5872-A	ABC	Closed	7.38Y	123.0	0.00	1.97	103.60	0	2255	424	98	0.00	0.0	2.665	0.054	0	0	0	281
PL.36970	PD.5872-B	ABC	#3/0 ACSR	7.38Y	122.9	0.09	2.05	103.60	35	2255	424	98	1.31	0.1	2.738	0.072	0	0	0	281
PL.36971	PL.36970	B	#4 ACSR	7.38Y	122.9	0.00	2.05	3.98	3	29	5	99	0.00	0.0	2.739	0.001	0	0	0	2
PD.5826	PL.36971	B	60QA	7.38Y	122.9	0.00	2.05	3.98	7	29	5	99	0.00	0.0	2.739	0.001	0	0	0	2
PL.36972	PD.5826	B	#4 ACSR	7.38Y	122.9	0.00	2.06	3.98	3	29	5	99	0.00	0.0	2.771	0.032	29	5	2	2
PL.36969	PL.36970	ABC	#3/0 ACSR	7.37Y	122.9	0.08	2.13	102.27	34	2225	417	98	1.14	0.1	2.803	0.065	0	0	0	279
PL.36270	PL.36969	ABC	#3/0 ACSR	7.37Y	122.8	0.03	2.16	101.56	34	2208	412	98	0.39	0.0	2.825	0.023	40	7	3	275
PL.36271	PL.36270	A	#4 ACSR	7.37Y	122.8	0.00	2.16	1.15	1	8	1	99	0.00	0.0	2.826	0.001	0	0	0	1
PD.5827	PL.36271	A	40QA	7.37Y	122.8	0.00	2.16	1.15	3	8	1	99	0.00	0.0	2.826	0.001	0	0	0	1
PL.36272	PD.5827	A	#4 ACSR	7.37Y	122.8	0.00	2.16	1.15	1	8	1	99	0.00	0.0	2.987	0.161	8	1	1	1
PL.35409	PL.36270	ABC	#3/0 ACSR	7.36Y	122.7	0.15	2.30	99.33	33	2159	403	98	2.09	0.1	2.951	0.126	0	0	0	271
PL.33844	PL.35409	B	#1/0 ACSR	7.36Y	122.7	0.00	2.30	1.46	1	11	2	98	0.00	0.0	2.991	0.040	11	2	1	1
PL.35337	PL.35409	ABC	#3/0 ACSR	7.36Y	122.7	0.04	2.35	98.32	33	2135	396	98	0.61	0.0	2.989	0.038	0	0	0	268
PL.35338	PL.35337	ABC	#3/0 ACSR	7.36Y	122.6	0.05	2.39	98.32	33	2134	395	98	0.67	0.0	3.030	0.041	8	1	1	268
PL.35095	PL.35338	ABC	#3/0 ACSR	7.35Y	122.5	0.06	2.46	97.96	33	2126	393	98	0.90	0.0	3.087	0.056	25	4	3	267
PL.36064	PL.35095	ABC	#3/0 ACSR	7.35Y	122.5	0.05	2.51	96.83	32	2100	387	98	0.72	0.0	3.133	0.046	27	5	3	264
PL.35874	PL.36064	ABC	#3/0 ACSR	7.35Y	122.4	0.07	2.58	95.59	32	2073	382	98	1.00	0.0	3.198	0.066	28	5	2	261
PL.35873	PL.35874	ABC	#3/0 ACSR	7.34Y	122.3	0.13	2.72	94.28	31	2043	375	98	1.81	0.1	3.321	0.122	18	3	3	259
PL.35099	PL.35873	ABC	#3/0 ACSR	7.33Y	122.2	0.05	2.77	93.45	31	2023	369	98	0.73	0.0	3.370	0.050	10	2	1	256
PL.36619	PL.35099	ABC	#3/0 ACSR	7.33Y	122.2	0.05	2.82	92.96	31	2012	367	98	0.63	0.0	3.414	0.043	16	3	1	255

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: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.35628	PL.36619	ABC	#3/0 ACSR	7.33Y	122.1	0.05	2.87	90.96	30	1968	358	98	0.71	0.0	3.465	0.051	0	0	0	252
PL.34147	PL.35628	ABC	#3/0 ACSR	7.33Y	122.1	0.03	2.90	90.96	30	1968	357	98	0.44	0.0	3.497	0.032	12	2	1	252
PL.34083	PL.34147	ABC	#3/0 ACSR	7.32Y	122.0	0.06	2.96	88.70	30	1918	348	98	0.76	0.0	3.554	0.057	0	0	1	246
PL.34082	PL.34083	ABC	#3/0 ACSR	7.32Y	122.0	0.07	3.03	88.70	30	1917	347	98	0.85	0.0	3.619	0.065	0	0	0	245
PL.33751	PL.34082	ABC	336 MCM AC	7.32Y	122.0	0.00	3.03	4.92	1	107	19	98	0.00	0.0	3.663	0.044	26	4	4	11
PL.33750	PL.33751	ABC	336 MCM AC	7.32Y	122.0	0.00	3.03	3.74	1	81	14	99	0.00	0.0	3.730	0.067	14	2	1	7
PL.59268	PL.33750	ABC	336 MCM AC	7.32Y	122.0	0.00	3.03	1.64	0	35	6	99	0.00	0.0	3.874	0.145	13	2	1	3
PL.59255	PL.59268	ABC	336 MCM AC	7.32Y	122.0	0.00	3.03	0.00	0	0	0	100	0.00	0.0	3.909	0.035	0	0	0	0
PD.8756-B	PL.59255	ABC	Open	7.32Y	122.0	0.00	3.03	0.00	0	0	0	100	0.00	0.0	3.909	0.035	0	0	0	0
PL.59269	PL.59268	B	#4 ACSR	7.32Y	122.0	0.01	3.04	3.11	2	22	4	98	0.00	0.0	3.942	0.068	12	2	1	2
PL.37014	PL.59269	B	#4 ACSR	7.32Y	122.0	0.00	3.04	1.41	1	10	2	98	0.00	0.0	3.992	0.050	10	2	1	1
PL.59267	PL.59268	B	#4 ACSR	7.32Y	122.0	0.00	3.03	0.00	0	0	0	100	0.00	0.0	3.875	0.001	0	0	0	0
PD.5770	PL.59267	B	40QA	7.32Y	122.0	0.00	3.03	0.00	0	0	0	100	0.00	0.0	3.875	0.001	0	0	0	0
PL.35762	PD.5770	B	#4 ACSR	7.32Y	122.0	0.00	3.03	0.00	0	0	0	100	0.00	0.0	3.987	0.112	0	0	0	0
PL.36284	PL.33750	A	#4 ACSR	7.32Y	122.0	0.00	3.03	4.32	3	31	5	99	0.00	0.0	3.730	0.000	0	0	0	3
PD.5112	PL.36284	A	40QA	7.32Y	122.0	0.00	3.03	4.32	11	31	5	99	0.00	0.0	3.730	0.000	0	0	0	3
PL.36285	PD.5112	A	#4 ACSR	7.32Y	122.0	0.01	3.04	4.32	3	31	5	99	0.00	0.0	3.788	0.058	0	0	0	3
PL.33877	PL.36285	A	#4 ACSR	7.32Y	122.0	0.01	3.05	4.32	3	31	5	99	0.00	0.0	3.823	0.035	8	1	1	3
PL.33878	PL.33877	A	#4 ACSR	7.32Y	122.0	0.00	3.05	2.34	2	17	3	98	0.00	0.0	3.849	0.026	17	3	1	1
PL.51782	PL.33877	A	#2 ACSR	7.32Y	122.0	0.00	3.05	0.91	1	7	1	99	0.00	0.0	3.864	0.040	7	1	1	1
PL.36286	PL.34082	ABC	#2 ACSR	7.31Y	121.8	0.14	3.16	83.77	48	1810	327	98	1.90	0.1	3.685	0.066	9	2	2	234
PL.36287	PL.36286	ABC	#2 ACSR	7.30Y	121.7	0.10	3.27	83.35	48	1799	324	98	1.43	0.1	3.735	0.050	0	0	0	232
PL.36288	PL.36287	B	6 A (CWC)	7.30Y	121.7	0.00	3.27	12.03	9	87	15	99	0.00	0.0	3.736	0.001	0	0	0	10
PD.5678	PL.36288	B	75QA	7.30Y	121.7	0.00	3.27	12.03	16	87	15	99	0.00	0.0	3.736	0.001	0	0	0	10
PL.36289	PD.5678	B	6 A (CWC)	7.30Y	121.7	0.02	3.29	12.03	9	87	15	99	0.01	0.0	3.784	0.048	14	2	2	10
PL.34157	PL.36289	B	6 A (CWC)	7.30Y	121.7	0.04	3.33	10.12	7	73	13	98	0.02	0.0	3.906	0.122	42	7	4	8
PL.34158	PL.34157	B	6 A (CWC)	7.30Y	121.7	0.01	3.34	3.74	3	27	5	98	0.00	0.0	3.978	0.073	0	0	0	2
PL.34159	PL.34158	B	6 A (CWC)	7.30Y	121.7	0.01	3.35	3.74	3	27	5	98	0.00	0.0	4.024	0.046	9	2	1	2
PL.34856	PL.34159	B	6 A (CWC)	7.30Y	121.6	0.00	3.35	2.50	2	18	3	99	0.00	0.0	4.074	0.050	18	3	1	1
PL.36019	PL.34157	B	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.58	0	4	1	97	0.00	0.0	3.973	0.067	4	1	2	2
PL.33926	PL.34157	B	#1/0 ACSR	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	3.937	0.031	0	0	0	0

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Balanced Voltage Drop Report
Source: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.34813	PL.36287	ABC	#2 ACSR	7.30Y	121.6	0.12	3.39	79.34	45	1711	308	98	1.56	0.1	3.796	0.060	0	0	0	222
PL.36290	PL.34813	ABC	#2 ACSR	7.30Y	121.6	0.00	3.39	79.34	45	1709	307	98	0.02	0.0	3.797	0.001	0	0	0	222
PD.5792	PL.36290	ABC	140L	7.30Y	121.6	0.00	3.39	79.34	57	1709	307	98	0.00	0.0	3.797	0.001	0	0	0	222
PL.36291	PD.5792	ABC	#2 ACSR	7.29Y	121.6	0.04	3.43	79.34	45	1709	307	98	0.49	0.0	3.816	0.019	0	0	0	222
PL.36292	PL.36291	ABC	#2 ACSR	7.29Y	121.4	0.13	3.55	77.93	45	1678	302	98	1.64	0.1	3.882	0.066	4	1	1	219
PL.72495	PL.36292	C	#4 ACSR	7.29Y	121.4	0.01	3.57	6.08	5	44	8	98	0.00	0.0	3.942	0.060	15	3	1	6
PL.72496	PL.72495	C	#4 ACSR	7.29Y	121.4	0.00	3.57	4.03	3	29	5	99	0.00	0.0	3.942	0.000	0	0	0	5
PL.36294	PL.72496	C	#4 ACSR	7.29Y	121.4	0.00	3.57	4.03	3	29	5	99	0.00	0.0	3.976	0.034	29	5	5	5
PL.36605	PL.36292	ABC	#2 ACSR	7.28Y	121.3	0.10	3.65	75.71	43	1629	293	98	1.26	0.1	3.936	0.054	11	2	1	212
PL.36606	PL.36605	ABC	#2 ACSR	7.28Y	121.3	0.03	3.68	75.22	43	1617	290	98	0.38	0.0	3.953	0.017	14	2	3	211
PL.36607	PL.36606	ABC	#2 ACSR	7.27Y	121.2	0.12	3.80	74.59	43	1603	288	98	1.46	0.1	4.017	0.064	0	0	0	208
PL.52717	PL.36607	ABC	#2 ACSR	7.27Y	121.2	0.00	3.80	74.59	43	1602	287	98	0.05	0.0	4.019	0.002	0	0	0	208
PL.52718	PL.52717	ABC	#2 ACSR	7.27Y	121.1	0.08	3.88	74.59	43	1602	287	98	0.99	0.1	4.063	0.044	16	3	1	208
PL.52715	PL.52718	B	6 A (CWC)	7.27Y	121.1	0.00	3.89	6.39	5	46	8	99	0.00	0.0	4.097	0.034	46	8	3	3
PL.52716	PL.52718	ABC	#2 ACSR	7.26Y	121.0	0.11	3.99	71.74	41	1539	275	98	1.31	0.1	4.125	0.063	19	3	2	204
PL.57333	PL.52716	C	#2 ACSR	7.26Y	121.0	0.00	3.99	4.39	3	31	5	99	0.00	0.0	4.126	0.001	0	0	0	3
PD.8352	PL.57333	C	40QA	7.26Y	121.0	0.00	3.99	4.39	11	31	5	99	0.00	0.0	4.126	0.001	0	0	0	3
PL.57334	PD.8352	C	#2 ACSR	7.26Y	121.0	0.00	4.00	2.88	2	21	4	98	0.00	0.0	4.143	0.017	4	1	1	2
PL.36564	PL.57334	C	#2 ACSR	7.26Y	121.0	0.00	4.00	2.30	1	16	3	98	0.00	0.0	4.158	0.015	16	3	1	1
PL.57332	PD.8352	C	#2 ACSR	7.26Y	121.0	0.00	4.00	1.52	1	11	2	98	0.00	0.0	4.181	0.055	11	2	1	1
PL.36170	PL.52716	ABC	#2 ACSR	7.25Y	120.8	0.20	4.20	69.02	39	1480	265	98	2.32	0.2	4.245	0.119	4	1	1	198
PL.35359	PL.36170	A	#2 ACSR	7.25Y	120.8	0.00	4.20	1.82	1	13	2	99	0.00	0.0	4.246	0.001	0	0	0	3
PD.5830	PL.35359	A	40QA	7.25Y	120.8	0.00	4.20	1.82	5	13	2	99	0.00	0.0	4.246	0.001	0	0	0	3
PL.35360	PD.5830	A	#2 ACSR	7.25Y	120.8	0.00	4.20	1.82	1	13	2	99	0.00	0.0	4.271	0.026	13	2	3	3
PL.36171	PL.36170	ABC	#2 ACSR	7.24Y	120.6	0.15	4.35	68.23	39	1461	260	98	1.74	0.1	4.338	0.093	37	7	4	194
PL.36443	PL.36171	ABC	#2 ACSR	7.23Y	120.5	0.17	4.52	66.48	38	1421	253	98	1.85	0.1	4.441	0.103	14	3	2	190
PL.36444	PL.36443	ABC	#2 ACSR	7.22Y	120.4	0.07	4.59	64.21	37	1371	243	98	0.76	0.1	4.486	0.045	9	2	1	184
PL.35146	PL.36444	A	#4 ACSR	7.22Y	120.4	0.03	4.62	11.07	9	79	14	98	0.02	0.0	4.547	0.061	11	2	1	8
PL.36490	PL.35146	A	#4 ACSR	7.22Y	120.4	0.00	4.62	9.48	7	67	12	98	0.00	0.0	4.559	0.011	39	7	4	7
PL.36491	PL.36490	A	#4 ACSR	7.22Y	120.4	0.01	4.63	3.97	3	28	5	98	0.00	0.0	4.603	0.045	0	0	0	3
PL.36492	PL.36491	A	#4 ACSR	7.22Y	120.4	0.00	4.63	1.04	1	7	1	99	0.00	0.0	4.651	0.047	7	1	1	1

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Balanced Voltage Drop Report
Source: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.33658	PL.36491	A	#2 ACSR	7.22Y	120.4	0.00	4.63	1.63	1	12	2	99	0.00	0.0	4.630	0.027	12	2	1	1
PL.34107	PL.36491	A	#4 ACSR	7.22Y	120.4	0.00	4.63	1.30	1	9	2	98	0.00	0.0	4.631	0.027	9	2	1	1
PL.64535	PL.36444	ABC	#2 ACSR	7.22Y	120.3	0.12	4.71	60.08	34	1282	227	98	1.23	0.1	4.570	0.084	9	2	1	175
PL.64536	PL.64535	ABC	#2 ACSR	7.22Y	120.3	0.00	4.71	59.63	34	1271	225	98	0.00	0.0	4.570	0.000	12	2	3	174
PL.34217	PL.64536	ABC	#2 ACSR	7.21Y	120.2	0.07	4.78	59.09	34	1260	223	98	0.66	0.1	4.617	0.047	11	2	1	171
PL.36374	PL.34217	ABC	#2 ACSR	7.21Y	120.2	0.04	4.82	52.93	30	1128	200	98	0.33	0.0	4.646	0.029	18	3	2	152
PL.51908	PL.36374	ABC	#2 ACSR	7.20Y	120.1	0.12	4.94	52.07	30	1109	196	98	1.02	0.1	4.739	0.093	27	5	1	149
PL.51910	PL.51908	ABC	#1/0 ACSR	7.20Y	120.1	0.01	4.95	13.42	6	286	50	99	0.03	0.0	4.792	0.053	0	0	0	47
PL.51913	PL.51910	C	#2 ACSR	7.20Y	120.1	0.00	4.95	0.00	0	0	0	100	0.00	0.0	4.793	0.001	0	0	0	0
PD.7952	PL.51913	C	10QA	7.20Y	120.1	0.00	4.95	0.00	0	0	0	100	0.00	0.0	4.793	0.001	0	0	0	0
PL.51914	PD.7952	C	#2 ACSR	7.20Y	120.1	0.00	4.95	0.00	0	0	0	100	0.00	0.0	4.828	0.034	0	0	0	0
PL.51909	PL.51910	ABC	#1/0 ACSR	7.20Y	120.0	0.03	4.97	12.98	6	276	49	98	0.05	0.0	4.909	0.117	17	3	4	45
PL.51917	PL.51909	ABC	#1/0 ACSR	7.20Y	120.0	0.02	4.99	11.89	5	253	45	98	0.03	0.0	4.987	0.078	25	4	2	40
PL.51918	PL.51917	B	#2 ACSR	7.20Y	120.0	0.00	4.99	0.06	0	0	0	100	0.00	0.0	4.990	0.003	0	0	0	1
PD.7954	PL.51918	B	10QA	7.20Y	120.0	0.00	4.99	0.06	0	0	0	100	0.00	0.0	4.990	0.003	0	0	0	1
PL.51919	PD.7954	B	#2 ACSR	7.20Y	120.0	0.00	4.99	0.06	0	0	0	100	0.00	0.0	5.054	0.065	0	0	1	1
PL.51922	PL.51917	ABC	#1/0 ACSR	7.20Y	120.0	0.01	5.00	10.07	4	214	38	98	0.02	0.0	5.043	0.056	0	0	0	36
PL.51924	PL.51922	ABC	#1/0 ACSR	7.20Y	120.0	0.01	5.01	10.07	4	214	38	98	0.02	0.0	5.111	0.067	0	0	0	36
PL.51925	PL.51924	ABC	#1/0 ACSR	7.20Y	120.0	0.01	5.02	10.07	4	214	38	98	0.01	0.0	5.141	0.030	0	0	0	36
PL.58347	PL.51925	C	#4 ACSR	7.20Y	120.0	0.00	5.02	7.85	6	56	10	98	0.00	0.0	5.143	0.002	0	0	0	13
PD.8574	PL.58347	C	25T	7.20Y	120.0	0.00	5.02	7.85	0	56	10	98	0.00	0.0	5.143	0.002	0	0	0	13
PL.63084	PD.8574	C	#4 ACSR	7.19Y	119.9	0.10	5.12	7.85	6	56	10	98	0.05	0.1	5.450	0.307	0	0	0	13
PL.63085	PL.63084	C	#4 ACSR	7.19Y	119.8	0.04	5.16	7.83	6	55	10	98	0.02	0.0	5.570	0.120	0	0	0	12
PL.58346	PL.63085	C	#4 ACSR	7.19Y	119.8	0.05	5.21	7.69	6	54	10	98	0.02	0.0	5.730	0.160	9	2	4	11
PL.36001	PL.58346	C	#4 ACSR	7.19Y	119.8	0.00	5.21	2.26	2	16	3	98	0.00	0.0	5.797	0.067	16	3	2	2
PL.37129	PL.58346	C	#4 ACSR	7.19Y	119.8	0.00	5.21	2.68	2	19	3	99	0.00	0.0	5.761	0.031	18	3	2	4
PL.37130	PL.37129	C	#4 ACSR	7.19Y	119.8	0.00	5.21	0.10	0	1	0	100	0.00	0.0	5.789	0.029	1	0	2	2
PL.37127	PL.58346	C	#4 ACSR	7.19Y	119.8	0.00	5.21	1.43	1	10	2	98	0.00	0.0	5.786	0.056	0	0	0	1
PL.37128	PL.37127	C	#4 ACSR	7.19Y	119.8	0.00	5.21	1.43	1	10	2	98	0.00	0.0	5.842	0.057	10	2	1	1
PL.58345	PL.63085	C	#1/0 ACSR	7.19Y	119.8	0.00	5.16	0.14	0	1	0	100	0.00	0.0	5.622	0.052	1	0	1	1
PL.63086	PL.63084	C	#1/0 ACSR	7.19Y	119.9	0.00	5.12	0.02	0	0	0	100	0.00	0.0	5.518	0.068	0	0	0	1

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Balanced Voltage Drop Report
Source: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.63089	PL.63086	C	#1/0 ACSR	7.19Y	119.9	0.00	5.12	0.02	0	0	0	100	0.00	0.0	5.567	0.049	0	0	0	1
PD.9461	PL.63089	C	10T	7.19Y	119.9	0.00	5.12	0.02	0	0	0	100	0.00	0.0	5.567	0.049	0	0	0	1
PL.63090	PD.9461	C	#1/0 ACSR	7.19Y	119.9	0.00	5.12	0.02	0	0	0	100	0.00	0.0	5.596	0.030	0	0	0	1
PL.63087	PL.63090	C	#1/0 ACSR	7.19Y	119.9	0.00	5.12	0.02	0	0	0	100	0.00	0.0	5.704	0.108	0	0	0	1
PL.63088	PL.63087	C	#1/0 ACSR	7.19Y	119.9	0.00	5.12	0.02	0	0	0	100	0.00	0.0	5.828	0.124	0	0	1	1
PL.51923	PL.51925	A	#4 ACSR	7.20Y	120.0	0.00	5.02	22.36	17	158	28	98	0.00	0.0	5.142	0.001	0	0	0	23
PD.5774	PL.51923	A	25T	7.20Y	120.0	0.00	5.02	22.36	0	158	28	98	0.00	0.0	5.142	0.001	0	0	0	23
PL.34998	PD.5774	A	#4 ACSR	7.19Y	119.9	0.10	5.11	22.36	17	158	28	98	0.12	0.1	5.243	0.101	0	0	0	23
PL.37131	PL.34998	A	#4 ACSR	7.19Y	119.8	0.09	5.20	22.36	17	158	28	98	0.11	0.1	5.339	0.096	11	2	1	23
PL.36243	PL.37131	A	#4 ACSR	7.18Y	119.7	0.05	5.25	20.75	16	147	26	98	0.06	0.0	5.396	0.057	9	2	1	22
PL.37132	PL.36243	A	#4 ACSR	7.18Y	119.7	0.05	5.31	19.45	15	138	24	99	0.06	0.0	5.461	0.064	0	0	0	21
PL.37133	PL.37132	A	#4 ACSR	7.17Y	119.5	0.16	5.47	17.87	14	126	22	99	0.16	0.1	5.677	0.216	6	1	1	18
PL.37134	PL.37133	A	#4 ACSR	7.17Y	119.5	0.05	5.52	16.96	13	120	21	99	0.04	0.0	5.741	0.064	9	2	1	17
PL.37135	PL.37134	A	#4 ACSR	7.17Y	119.4	0.04	5.56	15.69	12	111	19	99	0.04	0.0	5.804	0.063	2	0	2	16
PL.37136	PL.37135	A	#4 ACSR	7.16Y	119.4	0.03	5.59	15.38	12	109	19	99	0.03	0.0	5.855	0.051	0	0	0	14
PL.37137	PL.37136	A	#4 ACSR	7.16Y	119.4	0.03	5.62	15.38	12	109	19	99	0.03	0.0	5.900	0.045	0	0	0	14
PL.35476	PL.37137	A	#4 ACSR	7.16Y	119.4	0.01	5.64	7.23	6	51	9	98	0.00	0.0	5.969	0.070	42	7	4	7
PL.36836	PL.35476	A	#4 ACSR	7.16Y	119.4	0.00	5.64	0.97	1	7	1	99	0.00	0.0	5.991	0.022	7	1	1	2
PL.36837	PL.36836	A	#4 ACSR	7.16Y	119.4	0.00	5.64	0.00	0	0	0	100	0.00	0.0	6.035	0.043	0	0	1	1
PL.36832	PL.35476	A	#4 ACSR	7.16Y	119.4	0.00	5.64	0.29	0	2	0	100	0.00	0.0	6.052	0.083	2	0	1	1
PL.36833	PL.37137	A	#4 ACSR	7.16Y	119.4	0.01	5.63	8.15	6	57	10	98	0.01	0.0	5.932	0.033	0	0	0	7
PL.36834	PL.36833	A	#4 ACSR	7.16Y	119.3	0.03	5.67	7.35	6	52	9	99	0.01	0.0	6.033	0.100	0	0	0	6
PL.36835	PL.36834	A	#4 ACSR	7.16Y	119.3	0.00	5.67	7.35	6	52	9	99	0.00	0.0	6.058	0.025	52	9	6	6
PL.34111	PL.36833	A	#4 ACSR	7.16Y	119.4	0.00	5.63	0.80	1	6	1	99	0.00	0.0	5.992	0.059	6	1	1	1
PL.33372	PL.37132	A	#2 ACSR	7.18Y	119.7	0.00	5.31	1.58	1	11	2	98	0.00	0.0	5.504	0.044	11	2	3	3
PL.51920	PL.51917	B	#4 ACSR	7.20Y	120.0	0.00	4.99	1.94	1	14	2	99	0.00	0.0	4.990	0.003	0	0	0	1
PD.7955	PL.51920	B	10QA	7.20Y	120.0	0.00	4.99	1.94	0	14	2	99	0.00	0.0	4.990	0.003	0	0	0	1
PL.51921	PD.7955	B	#4 ACSR	7.20Y	120.0	0.00	4.99	1.94	1	14	2	99	0.00	0.0	5.060	0.070	14	2	1	1
PL.66116	PL.51909	C	#2 ACSR	7.20Y	120.0	0.00	4.97	0.84	0	6	1	99	0.00	0.0	4.909	0.000	0	0	0	1
PL.66117	PL.66116	C	#2 ACSR	7.20Y	120.0	0.00	4.97	0.84	0	6	1	99	0.00	0.0	4.911	0.002	0	0	0	1
PD.7953	PL.66117	C	10QA	7.20Y	120.0	0.00	4.97	0.84	0	6	1	99	0.00	0.0	4.911	0.002	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: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.51916	PD.7953	C	#2 ACSR	7.20Y	120.0	0.00	4.97	0.84	0	6	1	99	0.00	0.0	4.934	0.023	6	1	1	1
PL.51911	PL.51910	A	#1/0 ACSR	7.20Y	120.1	0.00	4.95	1.33	1	9	2	98	0.00	0.0	4.794	0.002	0	0	0	2
PD.7951	PL.51911	A	10QA	7.20Y	120.1	0.00	4.95	1.33	0	9	2	98	0.00	0.0	4.794	0.002	0	0	0	2
PL.51912	PD.7951	A	#1/0 ACSR	7.20Y	120.1	0.00	4.95	1.33	1	9	2	98	0.00	0.0	4.837	0.044	9	2	2	2
PL.51907	PL.51908	ABC	#2 ACSR	7.20Y	120.0	0.08	5.01	37.40	21	796	141	98	0.47	0.1	4.824	0.085	25	4	2	101
PL.34773	PL.51907	ABC	#2 ACSR	7.19Y	119.9	0.10	5.12	36.23	21	771	136	98	0.61	0.1	4.941	0.118	38	7	3	99
PL.36608	PL.34773	ABC	#2 ACSR	7.19Y	119.8	0.06	5.18	34.43	20	732	129	98	0.36	0.0	5.017	0.076	19	3	2	96
PL.34796	PL.36608	ABC	#2 ACSR	7.19Y	119.8	0.06	5.24	33.54	19	712	126	98	0.34	0.0	5.092	0.075	0	0	0	94
PL.36400	PL.34796	C	6 A (CWC)	7.19Y	119.8	0.00	5.24	31.40	22	222	39	98	0.00	0.0	5.093	0.001	0	0	0	23
PD.5772	PL.36400	C	50QA	7.19Y	119.8	0.00	5.24	31.40	63	222	39	98	0.00	0.0	5.093	0.001	0	0	0	23
PL.36401	PD.5772	C	6 A (CWC)	7.18Y	119.7	0.02	5.26	31.40	22	222	39	98	0.03	0.0	5.106	0.013	9	2	1	23
PL.36399	PL.36401	C	6 A (CWC)	7.18Y	119.6	0.09	5.35	30.16	22	213	38	98	0.15	0.1	5.176	0.070	15	3	1	22
PL.36398	PL.36399	C	6 A (CWC)	7.17Y	119.6	0.07	5.42	28.08	20	199	35	98	0.11	0.1	5.236	0.060	17	3	4	21
PL.36397	PL.36398	C	6 A (CWC)	7.17Y	119.5	0.05	5.47	25.71	18	182	32	98	0.06	0.0	5.281	0.045	39	7	3	17
PL.36395	PL.36397	C	6 A (CWC)	7.17Y	119.5	0.05	5.52	20.16	14	142	25	98	0.06	0.0	5.342	0.061	9	2	1	14
PL.36396	PL.36395	C	6 A (CWC)	7.17Y	119.4	0.04	5.56	18.85	13	133	23	99	0.04	0.0	5.402	0.060	28	5	4	13
PL.37020	PL.36396	C	6 A (CWC)	7.16Y	119.4	0.04	5.61	14.93	11	105	18	99	0.03	0.0	5.468	0.067	13	2	1	9
PL.33374	PL.37020	C	6 A (CWC)	7.16Y	119.4	0.00	5.61	2.10	1	15	3	98	0.00	0.0	5.530	0.061	15	3	1	1
PL.37019	PL.37020	C	6 A (CWC)	7.16Y	119.3	0.10	5.71	9.45	7	67	12	98	0.05	0.1	5.708	0.240	0	0	0	6
PL.36211	PL.37019	C	#4 ACSR	7.16Y	119.3	0.01	5.72	6.48	5	46	8	99	0.00	0.0	5.752	0.043	6	1	1	4
PL.34257	PL.36211	C	#2 ACSR	7.16Y	119.3	0.00	5.72	0.00	0	0	0	100	0.00	0.0	5.784	0.033	0	0	0	0
PL.36212	PL.36211	C	#4 ACSR	7.16Y	119.3	0.01	5.73	5.67	4	40	7	99	0.00	0.0	5.812	0.060	13	2	1	3
PL.37018	PL.36212	C	#4 ACSR	7.16Y	119.3	0.00	5.73	3.86	3	27	5	98	0.00	0.0	5.834	0.022	11	2	1	2
PL.37017	PL.37018	C	#4 ACSR	7.16Y	119.3	0.00	5.73	2.34	2	16	3	98	0.00	0.0	5.855	0.021	16	3	1	1
PL.36209	PL.37019	C	6 A (CWC)	7.16Y	119.3	0.01	5.71	2.97	2	21	4	98	0.00	0.0	5.782	0.073	18	3	1	2
PL.60690	PL.36209	C	#1/0 ACSR	7.16Y	119.3	0.00	5.71	0.00	0	0	0	100	0.00	0.0	5.841	0.059	0	0	0	0
PL.36210	PL.36209	C	6 A (CWC)	7.16Y	119.3	0.00	5.71	0.35	0	2	0	100	0.00	0.0	5.885	0.103	2	0	1	1
PL.33375	PL.37020	C	6 A (CWC)	7.16Y	119.4	0.00	5.61	1.53	1	11	2	98	0.00	0.0	5.600	0.132	11	2	1	1
PL.36402	PL.34796	B	#2 ACSR	7.19Y	119.8	0.00	5.24	1.19	1	8	1	99	0.00	0.0	5.093	0.001	0	0	0	1
PD.5831	PL.36402	B	40QA	7.19Y	119.8	0.00	5.24	1.19	3	8	1	99	0.00	0.0	5.093	0.001	0	0	0	1
PL.36403	PD.5831	B	#2 ACSR	7.19Y	119.8	0.00	5.24	1.19	1	8	1	99	0.00	0.0	5.122	0.029	8	1	1	1

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Balanced Voltage Drop Report
Source: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PL.33970	PL.34796	ABC	#1/0 ACSR	7.18Y	119.7	0.05	5.29	22.67	10	481	85	98	0.17	0.0	5.218	0.126	0	0	0	70
PL.33727	PL.33970	ABC	#1/0 ACSR	7.18Y	119.7	0.03	5.32	18.40	8	391	69	98	0.09	0.0	5.320	0.102	15	3	4	61
PL.35482	PL.33727	ABC	#1/0 ACSR	7.18Y	119.7	0.02	5.34	15.20	7	322	57	98	0.06	0.0	5.414	0.094	0	0	0	52
PL.34067	PL.35482	B	#2 ACSR	7.18Y	119.7	0.00	5.35	4.02	2	28	5	98	0.00	0.0	5.454	0.040	28	5	4	4
PL.35483	PL.35482	ABC	#1/0 ACSR	7.18Y	119.6	0.02	5.36	13.86	6	294	52	98	0.04	0.0	5.499	0.085	0	0	0	48
PL.55971	PL.35483	B	#2 ACSR	7.18Y	119.6	0.00	5.36	0.00	0	0	0	100	0.00	0.0	5.502	0.003	0	0	0	0
PD.8303	PL.55971	B	25QA	7.18Y	119.6	0.00	5.36	0.00	0	0	0	100	0.00	0.0	5.502	0.003	0	0	0	0
PL.55972	PD.8303	B	#2 ACSR	7.18Y	119.6	0.00	5.36	0.00	0	0	0	100	0.00	0.0	5.542	0.040	0	0	0	0
PL.35484	PL.35483	ABC	#1/0 ACSR	7.18Y	119.6	0.01	5.38	13.83	6	293	52	98	0.03	0.0	5.552	0.053	0	0	0	46
PL.35150	PL.35484	B	6 A (CWC)	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	5.553	0.001	0	0	0	0
PD.5732	PL.35150	B	40QA	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	5.553	0.001	0	0	0	0
PL.59568	PD.5732	B	6 A (CWC)	7.18Y	119.6	0.00	5.38	0.00	0	0	0	100	0.00	0.0	5.654	0.101	0	0	0	0
PL.35151	PL.35484	B	#4 ACSR	7.18Y	119.6	0.00	5.38	3.96	3	28	5	98	0.00	0.0	5.553	0.001	0	0	0	3
PD.5832	PL.35151	B	40QA	7.18Y	119.6	0.00	5.38	3.96	10	28	5	98	0.00	0.0	5.553	0.001	0	0	0	3
PL.35152	PD.5832	B	#4 ACSR	7.18Y	119.6	0.00	5.38	3.96	3	28	5	98	0.00	0.0	5.571	0.018	0	0	0	3
PL.35485	PL.35152	B	#4 ACSR	7.18Y	119.6	0.01	5.39	3.96	3	28	5	98	0.00	0.0	5.617	0.046	0	0	0	3
PL.35486	PL.35485	B	#4 ACSR	7.18Y	119.6	0.00	5.39	3.96	3	28	5	98	0.00	0.0	5.662	0.045	28	5	3	3
PL.35487	PL.35484	ABC	#1/0 ACSR	7.18Y	119.6	0.01	5.39	12.51	5	265	47	98	0.02	0.0	5.599	0.047	0	0	0	43
PL.35488	PL.35487	B	#2 ACSR	7.18Y	119.6	0.00	5.39	1.29	1	9	2	98	0.00	0.0	5.626	0.027	5	1	1	2
PL.35489	PL.35488	B	#2 ACSR	7.18Y	119.6	0.00	5.39	0.54	0	4	1	97	0.00	0.0	5.675	0.049	4	1	1	1
PL.35490	PL.35487	ABC	#1/0 ACSR	7.18Y	119.6	0.02	5.41	12.08	5	256	45	98	0.04	0.0	5.710	0.111	0	0	0	41
PL.35533	PL.35490	ABC	#1/0 ACSR	7.17Y	119.6	0.01	5.42	12.08	5	256	45	98	0.02	0.0	5.763	0.053	0	0	0	41
PL.33708	PL.35533	B	#2 ACSR	7.17Y	119.6	0.00	5.42	20.14	12	142	25	98	0.00	0.0	5.765	0.001	0	0	0	17
PD.5731	PL.33708	B	40T	7.17Y	119.6	0.00	5.42	20.14	0	142	25	98	0.00	0.0	5.765	0.001	0	0	0	17
PL.33709	PD.5731	B	#2 ACSR	7.17Y	119.5	0.04	5.46	20.14	12	142	25	98	0.04	0.0	5.837	0.073	11	2	2	17
PL.35118	PL.33709	B	6 A (CWC)	7.17Y	119.5	0.01	5.47	5.70	4	40	7	99	0.00	0.0	5.889	0.052	20	3	2	4
PL.59571	PL.35118	B	#2 ACSR	7.17Y	119.5	0.00	5.48	2.91	2	21	4	98	0.00	0.0	5.975	0.086	21	4	2	2
PL.34774	PL.33709	B	6 A (CWC)	7.17Y	119.5	0.03	5.50	10.75	8	76	13	99	0.02	0.0	5.916	0.079	13	2	1	10
PL.35478	PL.34774	B	6 A (CWC)	7.17Y	119.5	0.02	5.52	8.86	6	63	11	99	0.01	0.0	5.979	0.063	0	0	0	9
PL.35479	PL.35478	B	6 A (CWC)	7.17Y	119.5	0.01	5.54	8.86	6	63	11	99	0.01	0.0	6.016	0.037	0	0	0	9
PL.33223	PL.35479	B	6 A (CWC)	7.17Y	119.5	0.00	5.54	2.51	2	18	3	99	0.00	0.0	6.055	0.039	18	3	2	2

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Balanced Voltage Drop Report
Source: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.35480	PL.35479	B	6 A (CWC)	7.17Y	119.4	0.02	5.56	6.35	5	45	8	98	0.01	0.0	6.093	0.077	0	0	0	7
PL.35715	PL.35480	B	6 A (CWC)	7.17Y	119.4	0.00	5.56	0.47	0	3	1	95	0.00	0.0	6.145	0.052	3	1	2	2
PL.59570	PL.35480	B	6 A (CWC)	7.17Y	119.4	0.01	5.57	5.13	4	36	6	99	0.00	0.0	6.157	0.064	12	2	1	4
PL.59567	PL.59570	B	#2 ACSR	7.17Y	119.4	0.00	5.57	0.78	0	6	1	99	0.00	0.0	6.164	0.007	6	1	1	1
PL.59569	PL.59570	B	6 A (CWC)	7.17Y	119.4	0.01	5.58	2.68	2	19	3	99	0.00	0.0	6.256	0.099	19	3	2	2
PL.34801	PL.35480	B	#2 ACSR	7.17Y	119.4	0.00	5.56	0.75	0	5	1	98	0.00	0.0	6.136	0.043	5	1	1	1
PL.33691	PL.33709	B	#4 ACSR	7.17Y	119.5	0.00	5.47	2.12	2	15	3	98	0.00	0.0	5.876	0.039	15	3	1	1
PL.59376	PL.35533	B	#2 ACSR	7.17Y	119.6	0.01	5.44	16.11	9	114	20	98	0.01	0.0	5.793	0.030	0	0	0	24
PD.8778	PL.59376	B	40QA	7.17Y	119.6	0.00	5.44	16.11	40	114	20	98	0.00	0.0	5.793	0.030	0	0	0	24
PL.59377	PD.8778	B	#2 ACSR	7.17Y	119.5	0.09	5.53	16.11	9	114	20	98	0.08	0.1	5.986	0.192	0	0	0	24
PL.59374	PL.59377	B	#2 ACSR	7.17Y	119.5	0.00	5.53	0.57	0	4	1	97	0.00	0.0	6.025	0.039	4	1	2	2
PL.59375	PL.59377	B	#2 ACSR	7.16Y	119.3	0.16	5.69	15.54	9	110	19	99	0.13	0.1	6.321	0.335	0	0	0	22
PL.36840	PL.59375	B	#4 ACSR	7.16Y	119.3	0.01	5.69	1.10	1	8	1	99	0.00	0.0	6.454	0.134	3	0	1	2
PL.36841	PL.36840	B	#4 ACSR	7.16Y	119.3	0.00	5.69	0.70	1	5	1	98	0.00	0.0	6.531	0.077	5	1	1	1
PL.36842	PL.36841	B	#4 ACSR	7.16Y	119.3	0.00	5.69	0.00	0	0	0	100	0.00	0.0	6.585	0.054	0	0	0	0
PL.64537	PL.36842	B	#1/0 ACSR	7.16Y	119.3	0.00	5.69	0.00	0	0	0	100	0.00	0.0	6.616	0.030	0	0	0	0
PL.64538	PL.64537	B	#1/0 ACSR	7.16Y	119.3	0.00	5.69	0.00	0	0	0	100	0.00	0.0	6.652	0.036	0	0	0	0
PL.60621	PL.59375	B	#2 ACSR	7.16Y	119.3	0.06	5.75	14.44	8	102	18	98	0.05	0.0	6.478	0.157	16	3	3	20
PL.64802	PL.60621	B	#2 ACSR	7.15Y	119.2	0.04	5.79	12.14	7	86	15	99	0.03	0.0	6.595	0.117	0	0	0	17
PL.64803	PL.64802	B	#2 ACSR	7.15Y	119.2	0.02	5.81	11.94	7	84	15	98	0.01	0.0	6.653	0.058	0	0	0	16
PL.36845	PL.64803	B	#2 ACSR	7.15Y	119.2	0.03	5.84	7.07	4	50	9	98	0.01	0.0	6.771	0.118	0	0	1	9
PL.36846	PL.36845	B	#2 ACSR	7.15Y	119.2	0.01	5.84	4.24	2	30	5	99	0.00	0.0	6.831	0.060	12	2	1	5
PL.37153	PL.36846	B	#2 ACSR	7.15Y	119.2	0.00	5.85	2.58	1	18	3	99	0.00	0.0	6.889	0.058	10	2	2	4
PL.37154	PL.37153	B	#2 ACSR	7.15Y	119.2	0.00	5.85	1.15	1	8	1	99	0.00	0.0	6.948	0.059	8	1	1	2
PL.66137	PL.37154	B	#1/0 ACSR	7.15Y	119.2	0.00	5.85	0.03	0	0	0	100	0.00	0.0	6.991	0.043	0	0	1	1
PL.72497	PL.36845	B	#4 ACSR	7.15Y	119.2	0.01	5.84	2.83	2	20	3	99	0.00	0.0	6.834	0.062	0	0	0	3
PL.72498	PL.72497	B	#4 ACSR	7.15Y	119.2	0.00	5.85	2.83	2	20	3	99	0.00	0.0	6.876	0.043	6	1	1	3
PL.37141	PL.72498	B	#4 ACSR	7.15Y	119.1	0.00	5.85	2.03	2	14	3	98	0.00	0.0	6.909	0.033	14	3	2	2
PL.34973	PL.64803	B	#4 ACSR	7.15Y	119.2	0.00	5.81	0.93	1	7	1	99	0.00	0.0	6.720	0.067	7	1	1	1
PL.34775	PL.64803	B	#4 ACSR	7.15Y	119.2	0.01	5.82	3.94	3	28	5	98	0.00	0.0	6.719	0.066	0	0	0	6
PL.36843	PL.34775	B	#4 ACSR	7.15Y	119.2	0.01	5.83	3.68	3	26	5	98	0.00	0.0	6.764	0.045	0	0	2	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: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PL.57833	PL.36843	B	#4 ACSR	7.15Y	119.2	0.01	5.84	3.68	3	26	5	98	0.00	0.0	6.870	0.106	26	5	2	2
PL.57834	PL.57833	B	#4 ACSR	7.15Y	119.2	0.00	5.84	0.00	0	0	0	100	0.00	0.0	6.938	0.068	0	0	0	0
PL.36844	PL.57834	B	#4 ACSR	7.15Y	119.2	0.00	5.84	0.00	0	0	0	100	0.00	0.0	6.987	0.050	0	0	0	0
PL.34045	PL.34775	B	#4 ACSR	7.15Y	119.2	0.00	5.82	0.26	0	2	0	100	0.00	0.0	6.787	0.068	2	0	2	2
PL.64804	PL.64802	B	#1/0 ACSR	7.15Y	119.2	0.00	5.79	0.20	0	1	0	100	0.00	0.0	6.615	0.020	0	0	0	1
PL.64805	PL.64804	B	1/0 AL URD	7.15Y	119.2	0.00	5.79	0.20	0	1	0	100	0.00	0.0	6.694	0.079	0	0	0	1
PL.64806	PL.64805	B	1/0 AL URD	7.15Y	119.2	0.00	5.79	0.20	0	1	0	100	0.00	0.0	6.760	0.066	1	0	1	1
PL.55968	PL.35483	B	#2 ACSR	7.18Y	119.6	0.00	5.36	0.07	0	1	0	100	0.00	0.0	5.502	0.003	0	0	0	2
PD.8302	PL.55968	B	40QA	7.18Y	119.6	0.00	5.36	0.07	0	1	0	100	0.00	0.0	5.502	0.003	0	0	0	2
PL.55969	PD.8302	B	#2 ACSR	7.18Y	119.6	0.00	5.37	0.07	0	1	0	100	0.00	0.0	5.527	0.025	0	0	0	2
PL.55970	PL.55969	B	#2 ACSR	7.18Y	119.6	0.00	5.37	0.07	0	1	0	100	0.00	0.0	5.543	0.016	1	0	2	2
PL.33701	PL.33727	B	#2 ACSR	7.18Y	119.7	0.00	5.32	2.82	2	20	3	99	0.00	0.0	5.381	0.061	20	3	2	2
PL.34963	PL.33727	B	#4 ACSR	7.18Y	119.6	0.05	5.37	4.71	4	33	6	98	0.01	0.0	5.552	0.232	2	0	1	3
PL.34066	PL.34963	B	#4 ACSR	7.18Y	119.6	0.00	5.37	0.00	0	0	0	100	0.00	0.0	5.683	0.131	0	0	0	0
PL.35481	PL.34963	B	#4 ACSR	7.18Y	119.6	0.01	5.38	4.41	3	31	5	99	0.00	0.0	5.627	0.075	0	0	0	2
PL.35534	PL.35481	B	#4 ACSR	7.17Y	119.6	0.04	5.42	3.93	3	28	5	98	0.01	0.0	5.849	0.222	0	0	0	1
PL.35472	PL.35534	B	#4 ACSR	7.17Y	119.6	0.00	5.42	0.00	0	0	0	100	0.00	0.0	5.953	0.104	0	0	0	0
PL.35473	PL.35472	B	#4 ACSR	7.17Y	119.6	0.00	5.42	0.00	0	0	0	100	0.00	0.0	6.012	0.059	0	0	0	0
PL.35474	PL.35534	B	#4 ACSR	7.17Y	119.6	0.02	5.44	3.93	3	28	5	98	0.00	0.0	5.950	0.101	0	0	0	1
PL.35475	PL.35474	B	#4 ACSR	7.17Y	119.5	0.01	5.45	3.93	3	28	5	98	0.00	0.0	6.036	0.086	0	0	0	1
PL.35477	PL.35475	B	#4 ACSR	7.17Y	119.5	0.04	5.49	3.93	3	28	5	98	0.01	0.0	6.247	0.210	0	0	0	1
PL.36838	PL.35477	B	#4 ACSR	7.17Y	119.5	0.01	5.50	3.93	3	28	5	98	0.00	0.0	6.378	0.131	28	5	1	1
PL.36839	PL.36838	B	#4 ACSR	7.17Y	119.5	0.00	5.50	0.00	0	0	0	100	0.00	0.0	6.406	0.028	0	0	0	0
PL.34587	PL.35481	B	#4 ACSR	7.18Y	119.6	0.00	5.38	0.48	0	3	1	95	0.00	0.0	5.670	0.043	3	1	1	1
PL.36406	PL.33970	B	6 A (CWC)	7.18Y	119.7	0.00	5.29	6.09	4	43	8	98	0.00	0.0	5.219	0.001	0	0	0	5
PD.5833	PL.36406	B	40QA	7.18Y	119.7	0.00	5.29	6.09	15	43	8	98	0.00	0.0	5.219	0.001	0	0	0	5
PL.36407	PD.5833	B	6 A (CWC)	7.18Y	119.7	0.01	5.30	6.09	4	43	8	98	0.00	0.0	5.273	0.054	13	2	2	5
PL.36405	PL.36407	B	6 A (CWC)	7.18Y	119.7	0.01	5.31	4.22	3	30	5	99	0.00	0.0	5.330	0.056	15	3	1	3
PL.33707	PL.36405	B	6 A (CWC)	7.18Y	119.7	0.00	5.31	2.12	2	15	3	98	0.00	0.0	5.413	0.083	15	3	2	2
PL.36404	PL.33707	B	6 A (CWC)	7.18Y	119.7	0.00	5.31	0.00	0	0	0	100	0.00	0.0	5.784	0.371	0	0	0	0
PL.35970	PL.33970	B	#2 ACSR	7.18Y	119.7	0.00	5.29	6.29	4	44	8	98	0.00	0.0	5.219	0.002	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: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PD.5200	PL.35970	B	40QA	7.18Y	119.7	0.00	5.29	6.29	16	44	8	98	0.00	0.0	5.219	0.002	0	0	0	3
PL.35971	PD.5200	B	#2 ACSR	7.18Y	119.7	0.01	5.30	6.29	4	44	8	98	0.00	0.0	5.281	0.061	0	0	0	3
PL.36239	PL.35971	B	#4 ACSR	7.18Y	119.7	0.00	5.30	3.95	3	28	5	98	0.00	0.0	5.306	0.025	28	5	1	1
PL.36240	PL.36239	B	#4 ACSR	7.18Y	119.7	0.00	5.30	0.00	0	0	0	100	0.00	0.0	5.402	0.096	0	0	0	0
PL.36241	PL.35971	B	#2 ACSR	7.18Y	119.7	0.00	5.30	2.34	1	17	3	98	0.00	0.0	5.360	0.080	10	2	1	2
PL.36242	PL.36241	B	#2 ACSR	7.18Y	119.7	0.00	5.31	0.87	0	6	1	99	0.00	0.0	5.424	0.064	6	1	1	1
PL.36408	PL.33970	B	#4 ACSR	7.18Y	119.7	0.00	5.29	0.43	0	3	1	95	0.00	0.0	5.219	0.001	0	0	0	1
PD.5199	PL.36408	B	40QA	7.18Y	119.7	0.00	5.29	0.43	1	3	1	95	0.00	0.0	5.219	0.001	0	0	0	1
PL.35969	PD.5199	B	#4 ACSR	7.18Y	119.7	0.00	5.29	0.43	0	3	1	95	0.00	0.0	5.271	0.051	3	1	1	1
PL.63113	PL.36374	ABC	#1/0 ACSR	7.21Y	120.2	0.00	4.82	0.02	0	0	0	100	0.00	0.0	4.712	0.066	0	0	1	1
PL.62095	PL.34217	B	6 A (CWC)	7.21Y	120.2	0.00	4.78	16.92	12	120	21	99	0.00	0.0	4.620	0.003	0	0	0	18
PD.9362	PL.62095	B	20T	7.21Y	120.2	0.00	4.78	16.92	0	120	21	99	0.00	0.0	4.620	0.003	0	0	0	18
PL.62096	PD.9362	B	6 A (CWC)	7.20Y	120.1	0.14	4.93	16.92	12	120	21	99	0.13	0.1	4.817	0.197	9	2	1	18
PL.63095	PL.62096	B	6 A (CWC)	7.20Y	120.0	0.04	4.96	15.68	11	111	19	99	0.03	0.0	4.867	0.051	0	0	0	17
PL.63106	PL.63095	B	6 A (CWC)	7.20Y	120.0	0.02	4.98	15.68	11	111	19	99	0.02	0.0	4.896	0.029	0	0	2	17
PL.63107	PL.63106	B	6 A (CWC)	7.20Y	120.0	0.02	5.00	15.68	11	111	19	99	0.01	0.0	4.921	0.025	3	1	1	15
PL.63097	PL.63107	B	6 A (CWC)	7.20Y	120.0	0.02	5.02	10.93	8	78	14	98	0.01	0.0	4.978	0.058	26	4	2	8
PL.63111	PL.63097	B	#1/0 ACSR	7.20Y	120.0	0.00	5.02	1.40	1	10	2	98	0.00	0.0	4.997	0.019	10	2	2	2
PL.37139	PL.63097	B	6 A (CWC)	7.20Y	120.0	0.01	5.03	5.91	4	42	7	99	0.00	0.0	5.041	0.063	13	2	2	4
PL.34564	PL.37139	B	6 A (CWC)	7.20Y	120.0	0.00	5.04	4.10	3	29	5	99	0.00	0.0	5.067	0.025	10	2	1	2
PL.34565	PL.34564	B	6 A (CWC)	7.20Y	120.0	0.01	5.04	2.69	2	19	3	99	0.00	0.0	5.155	0.089	19	3	1	1
PL.63096	PL.63107	B	6 A (CWC)	7.20Y	120.0	0.01	5.01	4.28	3	30	5	99	0.00	0.0	5.004	0.083	13	2	2	6
PL.37138	PL.63096	B	6 A (CWC)	7.20Y	120.0	0.00	5.01	2.38	2	17	3	98	0.00	0.0	5.070	0.066	14	2	3	4
PL.60628	PL.37138	B	6 A (CWC)	7.20Y	120.0	0.00	5.02	0.38	0	3	0	100	0.00	0.0	5.230	0.160	3	0	1	1
PL.60629	PL.60628	B	6 A (CWC)	7.20Y	120.0	0.00	5.02	0.00	0	0	0	100	0.00	0.0	5.318	0.088	0	0	0	0
PL.63094	PL.63095	B	#2 ACSR	7.20Y	120.0	0.00	4.96	0.00	0	0	0	100	0.00	0.0	4.908	0.041	0	0	0	0
PL.35214	PL.36443	B	6 A (CWC)	7.23Y	120.5	0.00	4.52	1.13	1	8	1	99	0.00	0.0	4.484	0.044	8	1	2	2
PL.33553	PL.36443	C	6 A (CWC)	7.23Y	120.5	0.00	4.52	3.67	3	26	5	98	0.00	0.0	4.490	0.049	26	5	2	2
PL.57335	PL.52716	A	6 A (CWC)	7.26Y	121.0	0.00	3.99	1.05	1	8	1	99	0.00	0.0	4.127	0.001	0	0	0	1
PD.8353	PL.57335	A	40QA	7.26Y	121.0	0.00	3.99	1.05	3	8	1	99	0.00	0.0	4.127	0.001	0	0	0	1
PL.57336	PD.8353	A	6 A (CWC)	7.26Y	121.0	0.00	4.00	1.05	1	8	1	99	0.00	0.0	4.242	0.115	8	1	1	1

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Balanced Voltage Drop Report
Source: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
CP.86	PL.52717	ABC	Cap (300)	7.27Y	121.2	0.00	3.80	0.00	0	0	0	100	0.00	0.0	4.019	0.115	0	0	0	0
PL.34892	PL.36291	A	6 A (CWC)	7.29Y	121.6	0.00	3.43	4.23	3	30	5	99	0.00	0.0	3.857	0.041	30	5	3	3
PL.36673	PL.34147	B	#4 ACSR	7.33Y	122.1	0.01	2.92	2.01	2	15	3	98	0.00	0.0	3.642	0.145	0	0	0	2
PL.37013	PL.36673	B	#4 ACSR	7.32Y	122.1	0.01	2.92	2.01	2	15	3	98	0.00	0.0	3.725	0.083	8	1	1	2
PL.34146	PL.37013	B	#4 ACSR	7.32Y	122.1	0.00	2.92	0.95	1	7	1	99	0.00	0.0	3.816	0.090	7	1	1	1
PL.34148	PL.34147	B	6 A (CWC)	7.33Y	122.1	0.00	2.90	3.12	2	23	4	99	0.00	0.0	3.497	0.000	0	0	0	3
PD.5828	PL.34148	B	75QA	7.33Y	122.1	0.00	2.90	3.12	4	23	4	99	0.00	0.0	3.497	0.000	0	0	0	3
PL.35946	PD.5828	B	6 A (CWC)	7.33Y	122.1	0.01	2.91	3.12	2	23	4	99	0.00	0.0	3.563	0.066	8	1	1	3
PL.35947	PL.35946	B	6 A (CWC)	7.33Y	122.1	0.00	2.91	2.08	1	15	3	98	0.00	0.0	3.585	0.022	15	3	2	2
PL.35948	PL.36619	A	#4 ACSR	7.33Y	122.2	0.00	2.82	3.77	3	27	5	98	0.00	0.0	3.415	0.001	0	0	0	2
PD.5258	PL.35948	A	40QA	7.33Y	122.2	0.00	2.82	3.77	9	27	5	98	0.00	0.0	3.415	0.001	0	0	0	2
PL.35949	PD.5258	A	#4 ACSR	7.33Y	122.2	0.01	2.82	3.77	3	27	5	98	0.00	0.0	3.472	0.057	17	3	1	2
PL.35945	PL.35949	A	#4 ACSR	7.33Y	122.2	0.00	2.82	1.39	1	10	2	98	0.00	0.0	3.493	0.021	10	2	1	1
PL.35783	PL.35409	A	#4 ACSR	7.36Y	122.7	0.00	2.30	1.57	1	11	2	98	0.00	0.0	2.952	0.000	0	0	0	2
PD.5273	PL.35783	A	40QA	7.36Y	122.7	0.00	2.30	1.57	4	11	2	98	0.00	0.0	2.952	0.000	0	0	0	2
PL.36663	PD.5273	A	#4 ACSR	7.36Y	122.7	0.00	2.30	1.57	1	11	2	98	0.00	0.0	2.970	0.018	11	2	1	2
PL.35782	PL.36663	A	#4 ACSR	7.36Y	122.7	0.00	2.30	0.00	0	0	0	100	0.00	0.0	3.017	0.047	0	0	1	1
PL.63112	PL.36969	B	1/0 AL URD	7.37Y	122.9	0.00	2.13	2.14	1	16	3	98	0.00	0.0	2.843	0.040	9	2	1	4
PL.63792	PL.63112	B	1/0 AL URD	7.37Y	122.9	0.00	2.13	0.96	1	7	1	99	0.00	0.0	2.879	0.036	7	1	3	3
PL.63793	PL.63792	B	1/0 AL URD	7.37Y	122.9	0.00	2.13	0.00	0	0	0	100	0.00	0.0	2.918	0.040	0	0	0	0
PL.58457	PL.34846	A	#4/0 ACSR	7.42Y	123.6	0.00	1.40	6.85	2	50	9	98	0.00	0.0	2.228	0.003	0	0	0	6
PD.8683	PL.58457	A	25T	7.42Y	123.6	0.00	1.40	6.85	0	50	9	98	0.00	0.0	2.228	0.003	0	0	0	6
PL.58458	PD.8683	A	#4/0 ACSR	7.42Y	123.6	0.01	1.41	6.85	2	50	9	98	0.00	0.0	2.377	0.149	4	1	2	6
PL.36968	PL.58458	A	#4/0 ACSR	7.42Y	123.6	0.00	1.41	6.26	2	46	8	99	0.00	0.0	2.391	0.013	0	0	0	4
PL.33705	PL.36968	A	#4/0 ACSR	7.42Y	123.6	0.00	1.41	1.69	0	12	2	99	0.00	0.0	2.410	0.019	12	2	2	2
PL.35576	PL.36968	A	#4/0 ACSR	7.41Y	123.6	0.01	1.42	4.57	1	33	6	98	0.00	0.0	2.535	0.144	0	0	0	2
PL.35573	PL.35576	A	#4/0 ACSR	7.41Y	123.6	0.00	1.42	3.07	1	22	4	98	0.00	0.0	2.559	0.023	22	4	1	1
PL.35577	PL.35576	A	#4/0 ACSR	7.41Y	123.6	0.00	1.42	1.50	0	11	2	98	0.00	0.0	2.597	0.062	11	2	1	1
PL.34982	PL.34846	C	#4/0 ACSR	7.42Y	123.6	0.00	1.40	0.00	0	0	0	100	0.00	0.0	2.244	0.018	0	0	0	0
PL.33663	PL.34981	C	#4/0 ACSR	7.43Y	123.8	0.01	1.21	10.29	3	75	13	99	0.00	0.0	2.106	0.042	0	0	0	8
PL.36029	PL.33663	C	#4 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	2.124	0.018	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: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.36030	PL.36029	C	#4 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	2.136	0.013	0	0	0	0
PL.35963	PL.33663	C	#4/0 ACSR	7.43Y	123.8	0.01	1.22	10.29	3	75	13	99	0.00	0.0	2.167	0.061	42	7	5	8
PL.36966	PL.35963	C	#4/0 ACSR	7.43Y	123.8	0.00	1.22	4.53	1	33	6	98	0.00	0.0	2.202	0.035	0	0	0	3
PL.57682	PL.36966	C	#4/0 ACSR	7.43Y	123.8	0.00	1.22	4.53	1	33	6	98	0.00	0.0	2.255	0.053	21	4	1	3
PL.57683	PL.57682	C	#4/0 ACSR	7.43Y	123.8	0.00	1.22	1.69	0	12	2	99	0.00	0.0	2.287	0.031	12	2	2	2
PL.36967	PL.57683	C	#4/0 ACSR	7.43Y	123.8	0.00	1.22	0.00	0	0	0	100	0.00	0.0	2.304	0.017	0	0	0	0
PL.34461	PL.34981	C	#4/0 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	2.224	0.160	0	0	0	0
PL.33898	PL.35925	ABC	397 SPACER	7.44Y	124.1	0.00	0.94	9.31	2	187	90	90	0.00	0.0	1.893	0.052	0	0	0	4
PL.34738	PL.33898	ABC	750 MCM AL	7.44Y	124.0	0.02	0.96	9.26	2	186	90	90	0.02	0.0	2.314	0.421	0	0	0	3
PL.34742	PL.34738	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	7.57	1	152	74	90	0.00	0.0	2.318	0.004	0	0	0	1
PD.5880-A	PL.34742	ABC	Closed	7.44Y	124.0	0.00	0.96	7.57	0	152	74	90	0.00	0.0	2.318	0.004	0	0	0	1
PD.5880-B	PD.5880-A	ABC	Closed	7.44Y	124.0	0.00	0.96	7.57	0	152	74	90	0.00	0.0	2.318	0.004	0	0	0	1
PL.34739	PD.5880-B	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	7.57	1	152	74	90	0.00	0.0	2.391	0.073	152	74	1	1
PL.36011	PL.34738	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	1.38	0	28	13	91	0.00	0.0	2.390	0.076	28	13	1	1
PL.34743	PL.34738	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	0.31	0	6	3	89	0.00	0.0	2.439	0.125	0	0	0	1
PD.5881-A	PL.34743	ABC	Closed	7.44Y	124.0	0.00	0.96	0.31	0	6	3	89	0.00	0.0	2.439	0.125	0	0	0	1
PD.5881-B	PD.5881-A	ABC	Closed	7.44Y	124.0	0.00	0.96	0.31	0	6	3	89	0.00	0.0	2.439	0.125	0	0	0	1
PL.35061	PD.5881-B	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	0.31	0	6	3	89	0.00	0.0	2.506	0.067	0	0	0	1
PL.34476	PL.35061	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	0.31	0	6	3	89	0.00	0.0	2.521	0.015	0	0	0	1
PL.36054	PL.34476	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	0.31	0	6	3	89	0.00	0.0	2.716	0.195	0	0	0	1
PL.36055	PL.36054	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	0.31	0	6	3	89	0.00	0.0	2.750	0.033	0	0	0	1
PL.35062	PL.36055	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	0.00	0	0	0	100	0.00	0.0	2.830	0.080	0	0	0	0
PL.34056	PL.36055	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	0.31	0	6	3	89	0.00	0.0	2.752	0.002	0	0	0	1
PD.5879-A	PL.34056	ABC	Closed	7.44Y	124.0	0.00	0.96	0.31	0	6	3	89	0.00	0.0	2.752	0.002	0	0	0	1
PD.5879-B	PD.5879-A	ABC	Closed	7.44Y	124.0	0.00	0.96	0.31	0	6	3	89	0.00	0.0	2.752	0.002	0	0	0	1
PL.34054	PD.5879-B	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	0.31	0	6	3	89	0.00	0.0	2.843	0.091	6	3	1	1
PL.34477	PL.35061	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	0.00	0	0	0	100	0.00	0.0	2.578	0.072	0	0	0	0
PL.34726	PL.34477	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	0.00	0	0	0	100	0.00	0.0	2.642	0.064	0	0	0	0
PL.34881	PL.34726	ABC	750 MCM AL	7.44Y	124.0	0.00	0.96	0.00	0	0	0	100	0.00	0.0	2.647	0.005	0	0	0	0
PL.57926	PL.33898	C	#1/0 ACSR	7.44Y	124.1	0.00	0.94	0.14	0	1	0	100	0.00	0.0	1.896	0.003	1	0	1	1
PL.35094	PL.60696	ABC	#4/0 ACSR	7.47Y	124.4	0.00	0.57	0.65	0	13	6	91	0.00	0.0	1.102	0.014	13	6	1	1

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

Balanced Voltage Drop Report
Source: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru

PL.61054	PL.61382	ABC	#2 ACSR	7.49Y	124.8	0.00	0.21	4.65	3	94	45	90	0.00	0.0	0.406	0.018	0	0	0	2
PL.57275	PL.61054	ABC	1/0 AL URD	7.49Y	124.8	0.00	0.22	4.65	3	94	45	90	0.00	0.0	0.500	0.094	92	44	1	2
PL.57276	PL.57275	ABC	1/0 AL URD	7.49Y	124.8	0.00	0.22	0.12	0	3	0	100	0.00	0.0	0.503	0.003	3	0	1	1
PL.61061	Laurel Ind 2	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	114.01	22	2304	1129	90	0.01	0.0	0.004	0.004	0	0	0	5
PL.61370	PL.61061	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	114.01	22	2304	1128	90	0.00	0.0	0.007	0.003	0	0	0	5
----- Feeder No. 1 (Wal-Mart F1) Beginning with Device PD.9262 -----																				
PD.9262	PL.61370	ABC	480VWE	7.50Y	125.0	0.00	0.00	114.01	0	2304	1128	90	0.00	0.0	0.007	0.003	0	0	0	5
PL.61376	PD.9262	ABC	397 SPACER	7.50Y	125.0	0.01	0.01	114.01	22	2304	1128	90	0.03	0.0	0.024	0.017	0	0	0	5
PL.61377	PL.61376	ABC	397 SPACER	7.50Y	125.0	0.00	0.01	0.00	0	0	0	100	0.00	0.0	0.032	0.008	0	0	0	0
PL.61378	PL.61376	ABC	397 SPACER	7.49Y	124.8	0.14	0.15	114.01	22	2304	1128	90	0.47	0.0	0.297	0.273	0	0	0	5
PL.61381	PL.61378	ABC	397 SPACER	7.48Y	124.7	0.13	0.28	114.01	22	2303	1122	90	0.43	0.0	0.545	0.248	0	0	0	5
PD.9265-A	PL.61381	ABC	Closed	7.48Y	124.7	0.00	0.28	114.01	0	2303	1117	90	0.00	0.0	0.545	0.248	0	0	0	5
PD.9265-B	PD.9265-A	ABC	Closed	7.48Y	124.7	0.00	0.28	114.01	0	2303	1117	90	0.00	0.0	0.545	0.248	0	0	0	5
PL.61059	PD.9265-B	ABC	336 MCM AC	7.47Y	124.5	0.24	0.52	114.01	22	2303	1117	90	2.62	0.1	0.785	0.239	0	0	0	5
PL.61374	PL.61059	ABC	336 MCM AC	7.46Y	124.4	0.11	0.63	109.39	21	2204	1072	90	1.08	0.0	0.892	0.107	0	0	0	2
PD.8481-A	PL.61374	ABC	Closed	7.46Y	124.4	0.00	0.63	109.39	0	2203	1069	90	0.00	0.0	0.892	0.107	0	0	0	2
PD.8481-B	PD.8481-A	ABC	Closed	7.46Y	124.4	0.00	0.63	109.39	0	2203	1069	90	0.00	0.0	0.892	0.107	0	0	0	2
PL.58876	PD.8481-B	ABC	336 MCM AC	7.46Y	124.4	0.00	0.63	109.39	21	2203	1069	90	0.02	0.0	0.894	0.002	0	0	0	2
PL.34950	PL.58876	ABC	336 MCM AC	7.46Y	124.4	0.00	0.63	0.00	0	0	0	100	0.00	0.0	0.896	0.002	0	0	0	0
PD.5878-A	PL.34950	ABC	Open	7.46Y	124.4	0.00	0.63	0.00	0	0	0	100	0.00	0.0	0.896	0.002	0	0	0	0
PL.33664	PL.58876	ABC	336 MCM AC	7.46Y	124.3	0.09	0.72	109.39	21	2203	1069	90	0.97	0.0	0.991	0.097	0	0	0	2
PL.35180	PL.33664	ABC	336 MCM AC	7.46Y	124.3	0.01	0.73	108.73	21	2189	1060	90	0.10	0.0	1.000	0.010	0	0	0	1
PL.33730	PL.35180	ABC	336 MCM AC	7.46Y	124.3	0.00	0.73	108.73	21	2189	1060	90	0.00	0.0	1.000	0.000	0	0	0	1
PL.33731	PL.33730	ABC	336 MCM AC	7.46Y	124.3	0.00	0.74	108.73	21	2189	1060	90	0.01	0.0	1.004	0.004	2189	1060	1	1
PL.34190	PL.33731	ABC	336 MCM AC	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.007	0.003	0	0	0	0
PL.35688	PL.34190	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.008	0.000	0	0	0	0
PD.5067	PL.35688	ABC	25QA	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.008	0.000	0	0	0	0
PL.36997	PD.5067	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.376	0.368	0	0	0	0
PL.36998	PL.36997	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.446	0.070	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: Laurel Ind 2

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.33738	PL.36998	ABC	1/0 AL URD	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.488	0.043	0	0	0	0
PL.36996	PL.36998	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.449	0.003	0	0	0	0
PL.34866	PL.36997	A	1/0 AL URD	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.380	0.005	0	0	0	0
PL.33739	PL.36997	A	1/0 AL URD	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.380	0.005	0	0	0	0
PL.36093	PL.33731	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.005	0.000	0	0	0	0
PD.5066	PL.36093	ABC	25QA	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.005	0.000	0	0	0	0
PL.36646	PD.5066	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.057	0.052	0	0	0	0
PL.34874	PL.36646	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.058	0.001	0	0	0	0
PL.34867	PL.34874	ABC	1/0 AL URD	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.072	0.014	0	0	0	0
PL.34868	PL.34867	A	1/0 AL URD	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.241	0.169	0	0	0	0
PL.34530	PL.34874	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.142	0.084	0	0	0	0
PL.34449	PL.34874	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.413	0.354	0	0	0	0
PL.34101	PL.34449	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.417	0.004	0	0	0	0
PL.34450	PL.34449	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.479	0.067	0	0	0	0
PL.34098	PL.34449	ABC	350 MCM AL	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	1.417	0.005	0	0	0	0
CP.55	PL.33730	ABC	Cap (600)	7.46Y	124.3	0.00	0.73	0.00	0	0	0	100	0.00	0.0	1.000	0.005	0	0	0	0
PL.35066	PL.33664	ABC	#1/0 ACSR	7.46Y	124.3	0.00	0.73	0.66	0	13	6	91	0.00	0.0	1.007	0.017	13	6	1	1
PL.37078	PL.35066	ABC	3/0 AL URD	7.46Y	124.3	0.00	0.73	0.00	0	0	0	100	0.00	0.0	1.038	0.031	0	0	0	0
PL.37079	PL.37078	ABC	3/0 AL URD	7.46Y	124.3	0.00	0.73	0.00	0	0	0	100	0.00	0.0	1.060	0.022	0	0	0	0
PL.61055	PL.61059	ABC	#4 ACSR	7.47Y	124.5	0.00	0.52	3.68	3	74	36	90	0.00	0.0	0.797	0.013	74	36	1	1
PL.61060	PL.61059	C	#4 ACSR	7.47Y	124.5	0.00	0.52	2.94	2	22	4	98	0.00	0.0	0.785	0.001	0	0	0	2
PD.5221	PL.61060	C	15T	7.47Y	124.5	0.00	0.52	2.94	0	22	4	98	0.00	0.0	0.785	0.001	0	0	0	2
PL.35494	PD.5221	C	#4 ACSR	7.47Y	124.5	0.01	0.53	2.94	2	22	4	98	0.00	0.0	0.919	0.134	22	4	2	2

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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total			
KW	6412	0	0	0	0	0	88	0.00	6500	Lowest Voltage = 119.15	on Element PL.37141		
KVAR	1969	0	0	0	0	0	216		2185	Max Accm VoltD = 5.85	on Element PL.37141		
										Max Elem VoltD = 0.37	on Element PL.35925		

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Balanced Voltage Drop Report
Source: Laurel Ind 2

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

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Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
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