

Balanced Voltage Drop Report  
Source: West London 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
West London 2		ABC	SRC-West L	7.50Y	125.0	0.00	0.00	422.46	0	9007	3038	95	0.00	0.0	0.000	0.000	0	0	0	866
PL.53077	West London 2	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	238.51	46	5092	1694	95	0.06	0.0	0.001	0.001	0	0	0	496
PL.53083	PL.53077	ABC	336 MCM AC	7.50Y	125.0	0.01	0.01	238.51	46	5092	1694	95	0.14	0.0	0.004	0.003	0	0	0	496
----- Feeder No. 4 (Cold Hill F4) Beginning with Device PD.8084 -----																				
PD.8084	PL.53083	ABC	480VWE	7.50Y	125.0	0.00	0.01	238.51	0	5092	1693	95	0.00	0.0	0.004	0.003	0	0	0	496
PL.63309	PD.8084	ABC	336 MCM AC	7.50Y	124.9	0.07	0.08	238.51	46	5092	1693	95	1.86	0.0	0.043	0.039	3	1	1	496
PL.63310	PL.63309	ABC	336 MCM AC	7.49Y	124.8	0.15	0.23	238.35	46	5087	1688	95	3.87	0.1	0.124	0.081	0	0	0	495
PL.64636	PL.63310	A	#1/0 ACSR	7.49Y	124.8	0.00	0.24	2.69	1	19	6	95	0.00	0.0	0.202	0.078	0	0	0	1
PL.66195	PL.64636	A	1/0 AL URD	7.49Y	124.8	0.00	0.24	2.69	2	19	6	95	0.00	0.0	0.234	0.032	19	6	1	1
PL.42068	PL.63310	ABC	336 MCM AC	7.45Y	124.1	0.62	0.86	236.46	46	5043	1663	95	15.84	0.3	0.460	0.336	0	0	1	493
PL.42069	PL.42068	ABC	336 MCM AC	7.44Y	124.1	0.08	0.93	236.16	46	5021	1625	95	1.98	0.0	0.503	0.042	0	0	0	491
PL.43268	PL.42069	ABC	336 MCM AC	7.44Y	123.9	0.15	1.08	233.55	45	4966	1594	95	3.67	0.1	0.583	0.080	17	5	2	489
PL.43269	PL.43268	ABC	336 MCM AC	7.43Y	123.8	0.13	1.21	232.74	45	4945	1581	95	3.32	0.1	0.656	0.073	11	3	1	487
PL.43270	PL.43269	ABC	336 MCM AC	7.42Y	123.7	0.08	1.30	231.97	45	4925	1568	95	2.12	0.0	0.703	0.047	0	0	0	485
PL.43271	PL.43270	C	6 A (CWC)	7.42Y	123.7	0.00	1.30	13.23	9	94	28	96	0.00	0.0	0.708	0.006	0	0	0	4
PD.6754	PL.43271	C	75QA	7.42Y	123.7	0.00	1.30	13.23	18	94	28	96	0.00	0.0	0.708	0.006	0	0	0	4
PL.41949	PD.6754	C	6 A (CWC)	7.42Y	123.7	0.04	1.34	13.23	9	94	28	96	0.03	0.0	0.772	0.063	0	0	0	4
PL.43619	PL.41949	C	6 A (CWC)	7.42Y	123.6	0.06	1.40	12.84	9	91	27	96	0.04	0.0	0.886	0.115	12	4	1	3
PL.43620	PL.43619	C	6 A (CWC)	7.41Y	123.6	0.03	1.43	11.09	8	79	23	96	0.02	0.0	0.949	0.063	0	0	0	2
PL.43621	PL.43620	C	1/0 AL URD	7.41Y	123.6	0.00	1.44	11.09	7	79	23	96	0.00	0.0	0.955	0.006	0	0	0	2
PD.6126	PL.43621	C	75QA	7.41Y	123.6	0.00	1.44	11.09	15	79	23	96	0.00	0.0	0.955	0.006	0	0	0	2
PL.43622	PD.6126	C	1/0 AL URD	7.41Y	123.6	0.01	1.45	11.09	7	79	23	96	0.01	0.0	0.988	0.033	12	4	1	2
PL.43623	PL.43622	C	1/0 AL URD	7.41Y	123.5	0.01	1.45	9.38	6	67	20	96	0.00	0.0	1.029	0.041	67	20	1	1
PL.43617	PL.41949	C	6 A (CWC)	7.42Y	123.7	0.00	1.34	0.40	0	3	1	95	0.00	0.0	0.813	0.042	3	1	1	1
PL.43618	PL.43617	C	6 A (CWC)	7.42Y	123.7	0.00	1.34	0.00	0	0	0	100	0.00	0.0	0.847	0.034	0	0	0	0
PL.41888	PL.43270	ABC	336 MCM AC	7.42Y	123.7	0.04	1.33	227.56	44	4829	1535	95	0.89	0.0	0.723	0.020	0	0	0	481
PL.41318	PL.41888	ABC	336 MCM AC	7.40Y	123.3	0.40	1.73	227.04	44	4817	1530	95	9.84	0.2	0.950	0.227	0	0	0	480
PL.55933	PL.41318	ABC	#3/0 ACSR	7.40Y	123.3	0.00	1.73	0.82	0	17	5	96	0.00	0.0	0.998	0.049	17	5	1	1
PL.61122	PL.41318	ABC	336 MCM AC	7.39Y	123.1	0.14	1.87	226.22	44	4790	1502	95	3.44	0.1	1.029	0.080	0	0	0	479
PL.61124	PL.61122	C	#4 ACSR	7.39Y	123.1	0.00	1.87	3.59	3	25	8	95	0.00	0.0	1.035	0.006	0	0	0	3

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

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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.6670	PL.61124	C	75QA	7.39Y	123.1	0.00	1.87	3.59	5	25	8	95	0.00	0.0	1.035	0.006	0	0	0	3
PL.55934	PD.6670	C	#4 ACSR	7.39Y	123.1	0.00	1.88	3.59	3	25	8	95	0.00	0.0	1.079	0.044	25	8	3	3
PL.61123	PL.61122	ABC	336 MCM AC	7.38Y	123.0	0.11	1.98	225.02	43	4761	1486	95	2.71	0.1	1.093	0.063	0	0	0	476
PL.41006	PL.61123	B	#4 ACSR	7.38Y	123.0	0.01	1.99	35.49	27	251	74	96	0.02	0.0	1.098	0.006	0	0	0	21
PD.6671	PL.41006	B	50T	7.38Y	123.0	0.00	1.99	35.49	0	251	74	96	0.00	0.0	1.098	0.006	0	0	0	21
PL.41007	PD.6671	B	#4 ACSR	7.38Y	123.0	0.00	1.99	35.49	27	251	74	96	0.01	0.0	1.101	0.002	11	3	2	21
PL.41652	PL.41007	B	#4 ACSR	7.38Y	122.9	0.06	2.06	33.91	26	240	71	96	0.11	0.0	1.142	0.041	0	0	0	19
PL.41029	PL.41652	B	#4 ACSR	7.38Y	122.9	0.01	2.07	11.47	9	81	24	96	0.01	0.0	1.164	0.022	28	8	2	7
PL.63345	PL.41029	B	#4 ACSR	7.38Y	122.9	0.01	2.07	7.50	6	53	16	96	0.00	0.0	1.191	0.027	28	8	2	5
PL.63346	PL.63345	B	#4 ACSR	7.38Y	122.9	0.01	2.08	3.59	3	25	8	95	0.00	0.0	1.266	0.074	25	8	3	3
PL.55931	PL.41652	B	#4 ACSR	7.38Y	122.9	0.02	2.08	9.28	7	66	19	96	0.01	0.0	1.194	0.052	16	5	1	4
PL.55930	PL.55931	B	#4 ACSR	7.38Y	122.9	0.00	2.08	5.00	4	35	10	96	0.00	0.0	1.221	0.028	35	10	1	1
PL.55932	PL.55931	B	#4 ACSR	7.38Y	122.9	0.01	2.08	2.07	2	15	4	97	0.00	0.0	1.320	0.126	15	4	2	2
PL.42074	PL.41652	B	#4 ACSR	7.37Y	122.9	0.03	2.09	13.15	10	93	28	96	0.02	0.0	1.212	0.070	33	10	3	8
PL.42075	PL.42074	B	#4 ACSR	7.37Y	122.9	0.01	2.10	8.42	6	60	18	96	0.01	0.0	1.252	0.040	10	3	1	5
PL.42076	PL.42075	B	#4 ACSR	7.37Y	122.9	0.02	2.12	3.57	3	25	7	96	0.00	0.0	1.350	0.098	0	0	0	2
PL.41719	PL.42076	B	#4 ACSR	7.37Y	122.9	0.00	2.12	1.87	1	13	4	96	0.00	0.0	1.366	0.015	13	4	1	1
PL.42246	PL.42076	B	#4 ACSR	7.37Y	122.9	0.00	2.12	1.70	1	12	4	95	0.00	0.0	1.400	0.050	12	4	1	1
PL.41354	PL.42075	B	#4 ACSR	7.37Y	122.9	0.00	2.11	3.45	3	24	7	96	0.00	0.0	1.285	0.033	24	7	2	2
PL.42247	PL.61123	ABC	336 MCM AC	7.38Y	123.0	0.07	2.05	213.19	41	4507	1405	95	1.55	0.0	1.133	0.041	0	0	0	455
PL.42248	PL.42247	ABC	336 MCM AC	7.37Y	122.8	0.10	2.15	211.73	41	4474	1393	95	2.41	0.1	1.197	0.064	22	7	3	450
PL.41362	PL.42248	ABC	336 MCM AC	7.36Y	122.6	0.23	2.38	191.48	37	4042	1260	95	4.86	0.1	1.355	0.157	0	0	0	418
PL.41862	PL.41362	A	#4 ACSR	7.35Y	122.6	0.06	2.45	65.42	50	461	137	96	0.22	0.0	1.377	0.022	0	0	0	27
PL.43641	PL.41862	A	1/0 AL URD	7.35Y	122.5	0.01	2.46	65.42	38	461	137	96	0.04	0.0	1.382	0.006	0	0	0	27
PD.6559	PL.43641	A	100L	7.35Y	122.5	0.00	2.46	65.42	65	461	137	96	0.00	0.0	1.382	0.006	0	0	0	27
PL.43642	PD.6559	A	1/0 AL URD	7.35Y	122.5	0.03	2.49	65.42	38	461	137	96	0.11	0.0	1.397	0.015	36	11	2	27
PL.43638	PL.43642	A	1/0 AL URD	7.35Y	122.4	0.08	2.57	60.26	35	425	126	96	0.26	0.1	1.437	0.040	0	0	0	25
PL.43639	PL.43638	A	1/0 AL URD	7.35Y	122.4	0.00	2.57	3.73	2	26	8	96	0.00	0.0	1.482	0.044	26	8	2	2
PL.43640	PL.43639	A	1/0 AL URD	7.35Y	122.4	0.00	2.57	0.00	0	0	0	100	0.00	0.0	1.501	0.019	0	0	0	0
PL.43637	PL.43638	A	1/0 AL URD	7.34Y	122.4	0.07	2.63	56.54	33	398	118	96	0.22	0.1	1.476	0.039	0	0	0	23
PL.42067	PL.43637	A	1/0 AL URD	7.34Y	122.4	0.01	2.64	7.67	5	54	16	96	0.00	0.0	1.536	0.059	54	16	3	3

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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.43636	PL.43637	A	1/0 AL URD	7.34Y	122.3	0.03	2.67	48.86	29	344	102	96	0.08	0.0	1.497	0.021	33	10	2	20
PL.43635	PL.43636	A	1/0 AL URD	7.34Y	122.3	0.07	2.73	44.13	26	311	92	96	0.16	0.1	1.548	0.051	41	12	2	18
PL.43634	PL.43635	A	1/0 AL URD	7.33Y	122.2	0.11	2.84	38.36	23	270	80	96	0.22	0.1	1.646	0.097	37	11	1	16
PL.43633	PL.43634	A	1/0 AL URD	7.33Y	122.1	0.04	2.88	33.08	19	233	69	96	0.07	0.0	1.687	0.041	40	12	3	15
PL.43632	PL.43633	A	1/0 AL URD	7.32Y	122.0	0.09	2.97	27.39	16	192	57	96	0.13	0.1	1.796	0.109	18	5	1	12
PL.43631	PL.43632	A	1/0 AL URD	7.32Y	122.0	0.05	3.01	24.77	15	174	51	96	0.06	0.0	1.860	0.064	30	9	2	11
PL.43630	PL.43631	A	1/0 AL URD	7.32Y	121.9	0.04	3.06	20.44	12	143	42	96	0.05	0.0	1.931	0.072	11	3	1	9
PL.43228	PL.43630	A	1/0 AL URD	7.32Y	121.9	0.02	3.08	18.84	11	132	39	96	0.02	0.0	1.969	0.038	37	11	2	8
PL.43227	PL.43228	A	1/0 AL URD	7.31Y	121.9	0.03	3.11	13.58	8	95	28	96	0.02	0.0	2.061	0.092	30	9	2	6
PL.43226	PL.43227	A	1/0 AL URD	7.31Y	121.9	0.01	3.12	9.34	5	65	19	96	0.01	0.0	2.119	0.058	29	9	2	4
PL.43225	PL.43226	A	1/0 AL URD	7.31Y	121.9	0.01	3.13	5.13	3	36	11	96	0.00	0.0	2.166	0.047	19	6	1	2
PL.43224	PL.43225	A	1/0 AL URD	7.31Y	121.9	0.01	3.13	2.39	1	17	5	96	0.00	0.0	2.237	0.071	0	0	0	1
PL.42265	PL.43224	A	1/0 AL URD	7.31Y	121.9	0.00	3.13	2.39	1	17	5	96	0.00	0.0	2.238	0.000	17	5	1	1
PL.43450	PL.43224	A	1/0 AL URD	7.31Y	121.9	0.00	3.13	0.00	0	0	0	100	0.00	0.0	2.243	0.006	0	0	0	0
PL.43643	PL.41362	C	#4 ACSR	7.36Y	122.6	0.00	2.38	2.02	2	14	4	96	0.00	0.0	1.361	0.006	0	0	0	1
PD.6672	PL.43643	C	75QA	7.36Y	122.6	0.00	2.38	2.02	3	14	4	96	0.00	0.0	1.361	0.006	0	0	0	1
PL.43644	PD.6672	C	#4 ACSR	7.36Y	122.6	0.00	2.39	2.02	2	14	4	96	0.00	0.0	1.420	0.059	14	4	1	1
PL.43133	PL.41362	ABC	336 MCM AC	7.35Y	122.6	0.06	2.45	169.00	33	3562	1108	95	1.12	0.0	1.401	0.047	0	0	0	390
PL.43134	PL.43133	ABC	336 MCM AC	7.35Y	122.5	0.07	2.51	169.00	33	3561	1105	96	1.22	0.0	1.452	0.051	16	5	1	390
PL.43135	PL.43134	ABC	336 MCM AC	7.35Y	122.4	0.06	2.57	168.25	32	3544	1097	96	1.11	0.0	1.499	0.047	28	8	3	389
PL.43136	PL.43135	B	#4 ACSR	7.35Y	122.4	0.01	2.58	24.48	19	172	51	96	0.01	0.0	1.505	0.006	0	0	0	18
PD.6547	PL.43136	B	30T	7.35Y	122.4	0.00	2.58	24.48	0	172	51	96	0.00	0.0	1.505	0.006	0	0	0	18
PL.43137	PD.6547	B	#4 ACSR	7.34Y	122.4	0.05	2.63	24.48	19	172	51	96	0.06	0.0	1.552	0.047	12	4	1	18
PL.43138	PL.43137	B	#4 ACSR	7.34Y	122.4	0.01	2.63	7.29	6	51	15	96	0.00	0.0	1.577	0.026	27	8	2	4
PL.43139	PL.43138	B	#4 ACSR	7.34Y	122.4	0.01	2.64	3.40	3	24	7	96	0.00	0.0	1.658	0.080	13	4	1	2
PL.43140	PL.43139	B	#4 ACSR	7.34Y	122.4	0.00	2.65	1.49	1	10	3	96	0.00	0.0	1.750	0.093	10	3	1	1
PL.41277	PL.43137	B	#4 ACSR	7.34Y	122.4	0.00	2.63	1.91	1	13	4	96	0.00	0.0	1.584	0.032	13	4	1	1
PL.63284	PL.43137	B	#4 ACSR	7.34Y	122.3	0.03	2.66	13.58	10	96	28	96	0.02	0.0	1.604	0.052	17	5	1	12
PL.63285	PL.63284	B	#4 ACSR	7.34Y	122.3	0.02	2.68	11.20	9	79	23	96	0.01	0.0	1.648	0.044	16	5	2	11
PL.43141	PL.63285	B	#4 ACSR	7.34Y	122.3	0.01	2.68	6.16	5	43	13	96	0.00	0.0	1.674	0.026	0	0	0	7
PL.43142	PL.43141	B	#4 ACSR	7.34Y	122.3	0.01	2.69	6.16	5	43	13	96	0.00	0.0	1.706	0.032	8	2	1	7

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PL.43143	PL.43142	B	#4 ACSR	7.34Y	122.3	0.01	2.70	4.28	3	30	9	96	0.00	0.0	1.757	0.051	0	0	0	5
PL.41462	PL.43143	B	#4 ACSR	7.34Y	122.3	0.00	2.70	3.34	3	24	7	96	0.00	0.0	1.790	0.033	24	7	3	3
PL.43645	PL.43143	B	#4 ACSR	7.34Y	122.3	0.00	2.70	0.94	1	7	2	96	0.00	0.0	1.803	0.046	7	2	2	2
PL.41699	PL.43142	B	#2 ACSR	7.34Y	122.3	0.00	2.69	0.79	0	6	2	95	0.00	0.0	1.730	0.024	6	2	1	1
PL.41864	PL.63285	B	#4 ACSR	7.34Y	122.3	0.00	2.68	2.69	2	19	6	95	0.00	0.0	1.706	0.059	19	6	2	2
PL.52794	PL.43135	ABC	336 MCM AC	7.34Y	122.3	0.08	2.66	158.75	31	3342	1035	96	1.46	0.0	1.568	0.069	0	0	0	368
PL.64076	PL.52794	ABC	336 MCM AC	7.34Y	122.3	0.02	2.67	158.75	31	3340	1032	96	0.31	0.0	1.583	0.015	0	0	0	368
PL.64077	PL.64076	ABC	336 MCM AC	7.34Y	122.3	0.00	2.67	158.75	31	3340	1031	96	0.00	0.0	1.583	0.000	4	1	2	368
PL.64078	PL.64077	C	#1/0 ACSR	7.34Y	122.3	0.00	2.67	1.42	1	10	3	96	0.00	0.0	1.615	0.032	10	3	1	1
PL.54970	PL.64077	ABC	336 MCM AC	7.33Y	122.2	0.10	2.78	158.07	30	3326	1027	96	1.76	0.1	1.666	0.084	0	0	0	365
PL.43646	PL.54970	C	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.71	1	5	1	98	0.00	0.0	1.672	0.006	0	0	0	1
PD.6712	PL.43646	C	75QA	7.33Y	122.2	0.00	2.78	0.71	1	5	1	98	0.00	0.0	1.672	0.006	0	0	0	1
PL.43649	PD.6712	C	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.71	1	5	1	98	0.00	0.0	1.701	0.029	5	1	1	1
PL.43650	PL.43649	C	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	1.766	0.065	0	0	0	0
PL.54969	PL.43650	C	6 A (CWC)	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	1.894	0.128	0	0	0	0
PL.41447	PL.43650	C	#2 ACSR	7.33Y	122.2	0.00	2.78	0.00	0	0	0	100	0.00	0.0	1.800	0.034	0	0	0	0
PL.41295	PL.54970	ABC	336 MCM AC	7.33Y	122.2	0.07	2.84	157.84	30	3319	1021	96	1.20	0.0	1.724	0.057	0	0	0	364
PL.43712	PL.41295	ABC	336 MCM AC	7.32Y	122.0	0.11	2.96	142.63	27	2997	924	96	1.79	0.1	1.828	0.105	0	0	0	326
PL.43713	PL.43712	ABC	336 MCM AC	7.32Y	122.0	0.09	3.05	142.07	27	2983	916	96	1.41	0.0	1.911	0.083	0	0	0	323
PL.41585	PL.43713	ABC	#3/0 ACSR	7.31Y	121.9	0.07	3.12	74.40	25	1560	484	96	0.67	0.0	1.983	0.072	0	0	0	175
PL.43721	PL.41585	ABC	#1/0 ACSR	7.31Y	121.9	0.01	3.13	74.40	32	1559	483	96	0.08	0.0	1.989	0.006	0	0	0	175
PD.6809	PL.43721	ABC	140L	7.31Y	121.9	0.00	3.13	74.40	53	1559	483	96	0.00	0.0	1.989	0.006	0	0	0	175
PL.43722	PD.6809	ABC	#1/0 ACSR	7.31Y	121.8	0.04	3.16	74.40	32	1559	483	96	0.38	0.0	2.015	0.026	9	3	3	175
PL.43723	PL.43722	ABC	#1/0 ACSR	7.30Y	121.6	0.23	3.39	73.98	32	1550	480	96	2.44	0.2	2.182	0.168	0	0	0	172
PL.43725	PL.43723	A	6 A (CWC)	7.30Y	121.6	0.00	3.39	1.11	1	8	2	97	0.00	0.0	2.188	0.006	0	0	0	1
PD.6616	PL.43725	A	30T	7.30Y	121.6	0.00	3.39	1.11	0	8	2	97	0.00	0.0	2.188	0.006	0	0	0	1
PL.54108	PD.6616	A	6 A (CWC)	7.30Y	121.6	0.00	3.39	1.11	1	8	2	97	0.00	0.0	2.273	0.086	8	2	1	1
PL.43724	PL.43723	ABC	#1/0 ACSR	7.29Y	121.5	0.13	3.52	73.61	32	1540	475	96	1.41	0.1	2.282	0.100	31	9	4	171
PL.43739	PL.43724	A	6 A (CWC)	7.29Y	121.5	0.00	3.52	3.10	2	22	6	96	0.00	0.0	2.287	0.006	0	0	0	1
PD.6617	PL.43739	A	50QA	7.29Y	121.5	0.00	3.52	3.10	6	22	6	96	0.00	0.0	2.287	0.006	0	0	0	1
PL.54119	PD.6617	A	6 A (CWC)	7.29Y	121.5	0.00	3.53	3.10	2	22	6	96	0.00	0.0	2.328	0.040	22	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: West London 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.58343	PL.43724	A	6 A (CWC)	7.29Y	121.5	0.00	3.52	17.62	13	123	36	96	0.00	0.0	2.284	0.002	0	0	0	14
PD.8573	PL.58343	A	20T	7.29Y	121.5	0.00	3.52	17.62	0	123	36	96	0.00	0.0	2.284	0.002	0	0	0	14
PL.58344	PD.8573	A	6 A (CWC)	7.28Y	121.4	0.07	3.59	17.62	13	123	36	96	0.06	0.0	2.369	0.085	6	2	1	14
PL.54312	PL.58344	A	6 A (CWC)	7.28Y	121.4	0.02	3.61	14.39	10	101	30	96	0.01	0.0	2.394	0.025	11	3	1	10
PL.54313	PL.54312	A	6 A (CWC)	7.28Y	121.4	0.01	3.62	12.79	9	89	26	96	0.01	0.0	2.423	0.029	32	9	3	9
PL.54314	PL.54313	A	6 A (CWC)	7.28Y	121.4	0.01	3.63	5.92	4	41	12	96	0.00	0.0	2.463	0.040	0	0	0	4
PL.43740	PL.54314	A	6 A (CWC)	7.28Y	121.4	0.00	3.64	2.85	2	20	6	96	0.00	0.0	2.500	0.037	2	1	1	3
PL.43741	PL.43740	A	6 A (CWC)	7.28Y	121.4	0.00	3.64	2.53	2	18	5	96	0.00	0.0	2.521	0.021	18	5	2	2
PL.41851	PL.54314	A	#2 ACSR	7.28Y	121.4	0.00	3.63	3.06	2	21	6	96	0.00	0.0	2.499	0.036	21	6	1	1
PL.54315	PL.54313	A	6 A (CWC)	7.28Y	121.4	0.00	3.62	2.34	2	16	5	95	0.00	0.0	2.449	0.025	16	5	2	2
PL.57732	PL.58344	A	6 A (CWC)	7.28Y	121.4	0.01	3.60	2.31	2	16	5	95	0.00	0.0	2.458	0.089	8	2	1	3
PL.57733	PL.57732	A	6 A (CWC)	7.28Y	121.4	0.00	3.60	0.28	0	2	1	89	0.00	0.0	2.481	0.023	2	1	1	1
PL.57734	PL.57733	A	6 A (CWC)	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	2.528	0.048	0	0	0	0
PL.57731	PL.57732	A	#4 ACSR	7.28Y	121.4	0.00	3.60	0.88	1	6	2	95	0.00	0.0	2.500	0.043	6	2	1	1
PL.41711	PL.43724	ABC	#1/0 ACSR	7.28Y	121.4	0.13	3.65	65.24	28	1363	422	96	1.19	0.1	2.387	0.105	0	0	0	152
PL.41740	PL.41711	ABC	#1/0 ACSR	7.28Y	121.3	0.06	3.70	52.29	23	1094	327	96	0.42	0.0	2.445	0.058	0	0	1	132
PL.41665	PL.41740	ABC	#1/0 ACSR	7.27Y	121.2	0.08	3.78	52.29	23	1094	326	96	0.59	0.1	2.527	0.082	23	7	1	131
PL.41666	PL.41665	ABC	#1/0 ACSR	7.27Y	121.2	0.05	3.83	51.20	22	1071	319	96	0.34	0.0	2.576	0.049	0	0	1	130
PL.41664	PL.41666	ABC	#1/0 ACSR	7.26Y	121.1	0.11	3.94	51.18	22	1070	318	96	0.86	0.1	2.699	0.123	0	0	0	129
PL.56807	PL.41664	A	6 A (CWC)	7.26Y	121.1	0.00	3.94	17.24	12	120	36	96	0.00	0.0	2.700	0.001	0	0	0	12
PD.8251	PL.56807	A	40QA	7.26Y	121.1	0.00	3.94	17.24	43	120	36	96	0.00	0.0	2.700	0.001	0	0	0	12
PL.56808	PD.8251	A	6 A (CWC)	7.26Y	121.0	0.07	4.01	17.24	12	120	36	96	0.06	0.1	2.796	0.096	14	4	2	12
PL.41667	PL.56808	A	#2 ACSR	7.26Y	121.0	0.01	4.02	5.60	3	39	12	96	0.00	0.0	2.839	0.043	0	0	0	4
PL.54966	PL.41667	A	6 A (CWC)	7.26Y	121.0	0.00	4.02	0.00	0	0	0	100	0.00	0.0	2.937	0.098	0	0	1	1
PL.41668	PL.41667	A	#2 ACSR	7.26Y	121.0	0.01	4.03	5.60	3	39	12	96	0.00	0.0	2.878	0.039	0	0	0	3
PL.41008	PL.41668	A	#1/0 ACSR	7.26Y	121.0	0.00	4.03	1.37	1	10	3	96	0.00	0.0	2.936	0.058	10	3	1	1
PL.54967	PL.41668	A	#2 ACSR	7.26Y	121.0	0.01	4.03	4.23	2	29	9	96	0.00	0.0	2.946	0.067	21	6	1	2
PL.54968	PL.54967	A	1/0 AL URD	7.26Y	121.0	0.00	4.03	1.15	1	8	2	97	0.00	0.0	2.965	0.019	8	2	1	1
PL.41638	PL.56808	A	#4 ACSR	7.26Y	120.9	0.05	4.07	9.60	7	67	20	96	0.03	0.0	2.922	0.126	0	0	0	6
PL.41635	PL.41638	A	#4 ACSR	7.26Y	120.9	0.00	4.07	1.47	1	10	3	96	0.00	0.0	2.963	0.041	10	3	1	1
PL.54115	PL.41638	A	#4 ACSR	7.25Y	120.9	0.02	4.09	6.87	5	48	14	96	0.01	0.0	3.034	0.112	35	10	2	4

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Balanced Voltage Drop Report  
Source: West London 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.54116	PL.54115	A	#4 ACSR	7.25Y	120.9	0.00	4.09	1.90	1	13	4	96	0.00	0.0	3.145	0.111	13	4	2	2
PL.41844	PL.41638	A	#4 ACSR	7.26Y	120.9	0.00	4.07	1.26	1	9	3	95	0.00	0.0	3.054	0.132	9	3	1	1
PL.41712	PL.41664	ABC	#1/0 ACSR	7.26Y	121.0	0.03	3.97	45.43	20	949	282	96	0.18	0.0	2.731	0.032	0	0	0	117
PL.41328	PL.41712	A	#4 ACSR	7.26Y	121.0	0.01	3.97	24.52	19	171	51	96	0.01	0.0	2.737	0.006	0	0	0	18
PD.6513	PL.41328	A	40QA	7.26Y	121.0	0.00	3.97	24.52	61	171	51	96	0.00	0.0	2.737	0.006	0	0	0	18
PL.54348	PD.6513	A	#4 ACSR	7.26Y	120.9	0.08	4.05	24.52	19	171	51	96	0.10	0.1	2.813	0.077	11	3	2	18
PL.54349	PL.54348	A	#4 ACSR	7.25Y	120.9	0.05	4.11	22.97	18	160	47	96	0.06	0.0	2.866	0.052	10	3	1	16
PL.54316	PL.54349	A	#4 ACSR	7.25Y	120.9	0.04	4.14	21.59	17	150	44	96	0.04	0.0	2.905	0.039	10	3	2	15
PL.43742	PL.54316	A	#4 ACSR	7.25Y	120.8	0.02	4.16	19.04	15	132	39	96	0.02	0.0	2.929	0.024	31	9	3	12
PL.43743	PL.43742	A	#4 ACSR	7.25Y	120.8	0.03	4.19	14.52	11	101	30	96	0.02	0.0	2.968	0.038	0	0	0	9
PL.41630	PL.43743	A	#4 ACSR	7.25Y	120.8	0.00	4.19	3.35	3	23	7	96	0.00	0.0	2.988	0.021	23	7	3	3
PL.43744	PL.43743	A	#4 ACSR	7.25Y	120.8	0.01	4.20	7.98	6	55	16	96	0.00	0.0	2.994	0.026	14	4	1	4
PL.43745	PL.43744	A	#4 ACSR	7.25Y	120.8	0.00	4.20	5.90	5	41	12	96	0.00	0.0	3.021	0.027	25	7	2	3
PL.43746	PL.43745	A	#4 ACSR	7.25Y	120.8	0.00	4.20	2.33	2	16	5	95	0.00	0.0	3.108	0.087	16	5	1	1
PL.41378	PL.43743	A	#4 ACSR	7.25Y	120.8	0.00	4.19	3.19	2	22	7	95	0.00	0.0	2.994	0.027	22	7	2	2
PL.63016	PL.54316	A	#4 ACSR	7.25Y	120.9	0.00	4.14	1.14	1	8	2	97	0.00	0.0	2.905	0.000	0	0	0	1
PL.63017	PL.63016	A	#4 ACSR	7.25Y	120.9	0.00	4.14	1.14	1	8	2	97	0.00	0.0	2.936	0.031	8	2	1	1
PL.41503	PL.41712	ABC	#1/0 ACSR	7.26Y	121.0	0.04	4.01	37.26	16	778	231	96	0.23	0.0	2.794	0.062	19	6	2	99
PL.43747	PL.41503	ABC	#1/0 ACSR	7.26Y	120.9	0.05	4.06	36.33	16	758	225	96	0.24	0.0	2.864	0.070	8	2	2	97
PL.43748	PL.43747	ABC	#1/0 ACSR	7.25Y	120.9	0.03	4.09	35.92	16	750	223	96	0.17	0.0	2.915	0.052	16	5	2	95
PL.43397	PL.43748	ABC	#1/0 ACSR	7.25Y	120.9	0.04	4.13	34.05	15	710	211	96	0.21	0.0	2.982	0.067	0	0	0	91
PL.43403	PL.43397	ABC	#1/0 ACSR	7.25Y	120.8	0.03	4.16	30.86	13	644	191	96	0.13	0.0	3.034	0.052	0	0	0	83
PL.43404	PL.43403	C	#4 ACSR	7.25Y	120.8	0.00	4.16	1.40	1	10	3	96	0.00	0.0	3.040	0.006	0	0	0	2
PD.6608	PL.43404	C	50QA	7.25Y	120.8	0.00	4.16	1.40	3	10	3	96	0.00	0.0	3.040	0.006	0	0	0	2
PL.43405	PD.6608	C	#4 ACSR	7.25Y	120.8	0.00	4.16	1.40	1	10	3	96	0.00	0.0	3.095	0.055	10	3	2	2
PL.60999	PL.43403	ABC	#1/0 ACSR	7.25Y	120.8	0.04	4.20	30.40	13	634	188	96	0.18	0.0	3.106	0.072	2	1	1	81
PL.61000	PL.60999	ABC	#1/0 ACSR	7.25Y	120.8	0.01	4.21	29.29	13	611	181	96	0.05	0.0	3.130	0.024	0	0	0	78
PL.43752	PL.61000	ABC	#1/0 ACSR	7.25Y	120.8	0.00	4.22	28.72	12	599	177	96	0.01	0.0	3.136	0.006	0	0	0	76
PD.6762	PL.43752	ABC	50QA	7.25Y	120.8	0.00	4.22	28.72	57	599	177	96	0.00	0.0	3.136	0.006	0	0	0	76
PL.43753	PD.6762	ABC	#1/0 ACSR	7.25Y	120.8	0.03	4.24	28.72	12	599	177	96	0.11	0.0	3.187	0.051	11	3	1	76
PL.57291	PL.43753	ABC	#1/0 ACSR	7.24Y	120.7	0.02	4.26	24.97	11	520	154	96	0.06	0.0	3.226	0.039	0	0	0	71

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Balanced Voltage Drop Report  
Source: West London 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.57292	PL.57291	C	6 A (CWC)	7.24Y	120.7	0.00	4.26	1.43	1	10	3	96	0.00	0.0	3.231	0.006	0	0	0	1
PD.6411	PL.57292	C	50QA	7.24Y	120.7	0.00	4.26	1.43	3	10	3	96	0.00	0.0	3.231	0.006	0	0	0	1
PL.43535	PD.6411	C	6 A (CWC)	7.24Y	120.7	0.00	4.26	1.43	1	10	3	96	0.00	0.0	3.267	0.036	10	3	1	1
PL.57302	PL.57291	ABC	#1/0 ACSR	7.24Y	120.7	0.03	4.29	24.49	11	510	151	96	0.10	0.0	3.289	0.064	16	5	1	70
PL.57303	PL.57302	B	1/0 AL URD	7.24Y	120.7	0.00	4.29	0.00	0	0	0	100	0.00	0.0	3.294	0.005	0	0	0	0
PL.62962	PL.57302	ABC	#1/0 ACSR	7.24Y	120.7	0.02	4.31	20.27	9	422	125	96	0.06	0.0	3.346	0.057	16	5	1	60
PL.63824	PL.62962	ABC	#1/0 ACSR	7.24Y	120.7	0.02	4.33	19.50	8	406	120	96	0.06	0.0	3.408	0.062	0	0	0	59
PL.63830	PL.63824	B	1/0 AL URD	7.24Y	120.7	0.01	4.34	7.93	5	55	16	96	0.01	0.0	3.471	0.063	12	4	1	6
PL.63831	PL.63830	B	1/0 AL URD	7.24Y	120.7	0.00	4.35	6.22	4	43	13	96	0.00	0.0	3.521	0.050	43	13	5	5
PL.63829	PL.63831	B	1/0 AL URD	7.24Y	120.7	0.00	4.35	0.00	0	0	0	100	0.00	0.0	3.620	0.099	0	0	0	0
PL.63832	PL.63824	C	1/0 AL URD	7.24Y	120.7	0.00	4.33	2.98	2	21	6	96	0.00	0.0	3.457	0.049	0	0	0	3
PL.63833	PL.63832	C	1/0 AL URD	7.24Y	120.7	0.01	4.34	2.98	2	21	6	96	0.00	0.0	3.546	0.089	8	2	1	3
PL.63828	PL.63833	C	1/0 AL URD	7.24Y	120.7	0.00	4.34	1.78	1	12	4	95	0.00	0.0	3.589	0.043	0	0	0	2
PL.63827	PL.63828	C	1/0 AL URD	7.24Y	120.7	0.00	4.34	1.78	1	12	4	95	0.00	0.0	3.616	0.026	7	2	1	2
PL.63826	PL.63827	C	1/0 AL URD	7.24Y	120.7	0.00	4.34	0.81	0	6	2	95	0.00	0.0	3.637	0.021	6	2	1	1
PL.63825	PL.63824	ABC	#1/0 ACSR	7.24Y	120.6	0.02	4.35	15.86	7	330	98	96	0.05	0.0	3.487	0.079	13	4	1	50
PL.63299	PL.63825	ABC	#1/0 ACSR	7.24Y	120.6	0.01	4.36	15.26	7	318	94	96	0.03	0.0	3.534	0.047	12	4	1	49
PL.63296	PL.63299	ABC	#1/0 ACSR	7.24Y	120.6	0.01	4.38	11.65	5	243	72	96	0.02	0.0	3.584	0.050	12	4	1	39
PL.62963	PL.63296	ABC	#1/0 ACSR	7.24Y	120.6	0.02	4.39	11.07	5	230	68	96	0.03	0.0	3.663	0.078	0	0	0	38
PL.41965	PL.62963	ABC	#1/0 ACSR	7.24Y	120.6	0.00	4.39	6.37	3	133	39	96	0.00	0.0	3.687	0.024	20	6	2	21
PL.56767	PL.41965	ABC	#1/0 ACSR	7.24Y	120.6	0.00	4.40	5.42	2	113	33	96	0.00	0.0	3.734	0.047	46	14	7	19
PL.63306	PL.56767	ABC	#1/0 ACSR	7.24Y	120.6	0.00	4.40	3.20	1	67	20	96	0.00	0.0	3.773	0.040	0	0	0	12
PL.63307	PL.63306	ABC	1/0 AL URD	7.24Y	120.6	0.00	4.40	1.21	1	25	7	96	0.00	0.0	3.778	0.005	0	0	0	7
PD.9460	PL.63307	ABC	100CodeSMo	7.24Y	120.6	0.00	4.40	1.21	0	25	7	96	0.00	0.0	3.778	0.005	0	0	0	7
PL.63308	PD.9460	ABC	1/0 AL URD	7.24Y	120.6	0.00	4.40	1.21	1	25	7	96	0.00	0.0	3.797	0.018	0	0	0	7
PL.64398	PL.63308	ABC	1/0 AL URD	7.24Y	120.6	0.00	4.40	1.21	1	25	7	96	0.00	0.0	3.831	0.035	9	3	1	7
PL.64399	PL.64398	ABC	1/0 AL URD	7.24Y	120.6	0.00	4.40	0.75	0	16	5	95	0.00	0.0	3.877	0.046	0	0	0	6
PL.54416	PL.64399	A	1/0 AL URD	7.24Y	120.6	0.00	4.40	2.26	1	16	5	95	0.00	0.0	3.905	0.028	6	2	4	6
PL.54417	PL.54416	A	1/0 AL URD	7.24Y	120.6	0.00	4.40	1.47	1	10	3	96	0.00	0.0	3.940	0.034	10	3	2	2
PL.54418	PL.54417	A	1/0 AL URD	7.24Y	120.6	0.00	4.40	0.00	0	0	0	100	0.00	0.0	3.967	0.028	0	0	0	0
PL.63305	PL.63306	A	#1/0 ACSR	7.24Y	120.6	0.00	4.40	5.99	3	42	12	96	0.00	0.0	3.784	0.011	13	4	1	5

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

Balanced Voltage Drop Report  
Source: West London 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.54716	PL.63305	A	1/0 AL URD	7.24Y	120.6	0.00	4.40	4.04	2	28	8	96	0.00	0.0	3.787	0.003	0	0	0	4
PD.8148	PL.54716	A	30QA	7.24Y	120.6	0.00	4.40	4.04	13	28	8	96	0.00	0.0	3.787	0.003	0	0	0	4
PL.54673	PD.8148	A	1/0 AL URD	7.24Y	120.6	0.00	4.40	4.04	2	28	8	96	0.00	0.0	3.830	0.043	21	6	2	4
PL.54672	PL.54673	A	1/0 AL URD	7.24Y	120.6	0.00	4.41	0.98	1	7	2	96	0.00	0.0	3.865	0.035	3	1	1	2
PL.54671	PL.54672	A	1/0 AL URD	7.24Y	120.6	0.00	4.41	0.48	0	3	1	95	0.00	0.0	3.902	0.038	3	1	1	1
PL.54670	PL.54671	A	1/0 AL URD	7.24Y	120.6	0.00	4.41	0.00	0	0	0	100	0.00	0.0	3.932	0.030	0	0	0	0
PL.41966	PL.62963	A	#4 ACSR	7.24Y	120.6	0.00	4.39	14.10	11	98	29	96	0.00	0.0	3.668	0.006	0	0	0	17
PD.6533	PL.41966	A	50QA	7.24Y	120.6	0.00	4.39	14.10	28	98	29	96	0.00	0.0	3.668	0.006	0	0	0	17
PL.54600	PD.6533	A	#4 ACSR	7.23Y	120.6	0.03	4.42	14.10	11	98	29	96	0.02	0.0	3.709	0.041	0	0	0	17
PL.54601	PL.54600	A	#4 ACSR	7.23Y	120.6	0.02	4.44	11.46	9	80	24	96	0.01	0.0	3.750	0.041	16	5	2	14
PL.54376	PL.54601	A	#4 ACSR	7.23Y	120.6	0.00	4.44	9.12	7	63	19	96	0.00	0.0	3.759	0.009	8	2	1	12
PL.54375	PL.54376	A	#4 ACSR	7.23Y	120.5	0.02	4.46	8.02	6	56	16	96	0.01	0.0	3.817	0.058	0	0	0	11
PL.53984	PL.54375	A	#4 ACSR	7.23Y	120.5	0.03	4.49	8.02	6	56	16	96	0.01	0.0	3.898	0.081	9	3	1	11
PL.54159	PL.53984	A	#1/0 ACSR	7.23Y	120.5	0.00	4.49	6.66	3	46	14	96	0.00	0.0	3.947	0.049	46	14	10	10
PL.54602	PL.54600	A	#4 ACSR	7.23Y	120.6	0.00	4.42	2.64	2	18	5	96	0.00	0.0	3.740	0.031	7	2	1	3
PL.54603	PL.54602	A	#4 ACSR	7.23Y	120.6	0.00	4.42	1.57	1	11	3	96	0.00	0.0	3.772	0.031	11	3	2	2
PL.63300	PL.63299	B	1/0 AL URD	7.24Y	120.6	0.00	4.37	7.00	4	49	14	96	0.00	0.0	3.554	0.020	0	0	0	6
PL.63298	PL.63300	B	1/0 AL URD	7.24Y	120.6	0.01	4.38	7.00	4	49	14	96	0.01	0.0	3.628	0.074	10	3	1	6
PL.57286	PL.63298	B	1/0 AL URD	7.24Y	120.6	0.01	4.39	5.55	3	39	11	96	0.00	0.0	3.680	0.052	0	0	0	5
PL.57287	PL.57286	B	1/0 AL URD	7.24Y	120.6	0.01	4.40	5.55	3	39	11	96	0.00	0.0	3.722	0.042	0	0	0	5
PL.57288	PL.57287	B	1/0 AL URD	7.24Y	120.6	0.01	4.41	5.55	3	39	11	96	0.00	0.0	3.754	0.033	0	0	0	5
PL.57289	PL.57288	B	1/0 AL URD	7.23Y	120.6	0.01	4.42	5.55	3	39	11	96	0.00	0.0	3.819	0.065	0	0	0	5
PL.57290	PL.57289	B	1/0 AL URD	7.23Y	120.6	0.01	4.43	5.55	3	39	11	96	0.00	0.0	3.878	0.058	10	3	1	5
PL.57301	PL.57290	B	1/0 AL URD	7.23Y	120.6	0.01	4.43	4.07	2	28	8	96	0.00	0.0	3.959	0.081	10	3	2	4
PL.64394	PL.57301	B	1/0 AL URD	7.23Y	120.6	0.00	4.44	2.66	2	18	5	96	0.00	0.0	4.032	0.073	18	5	2	2
PL.64395	PL.64394	B	1/0 AL URD	7.23Y	120.6	0.00	4.44	0.00	0	0	0	100	0.00	0.0	4.113	0.081	0	0	0	0
PL.63297	PL.63299	C	6 A (CWC)	7.24Y	120.6	0.00	4.37	2.09	1	14	4	96	0.00	0.0	3.539	0.005	0	0	0	3
PD.9399	PL.63297	C	50QA	7.24Y	120.6	0.00	4.37	2.09	4	14	4	96	0.00	0.0	3.539	0.005	0	0	0	3
PL.62960	PD.9399	C	6 A (CWC)	7.24Y	120.6	0.00	4.37	2.09	1	14	4	96	0.00	0.0	3.586	0.047	4	1	1	3
PL.57357	PL.62960	C	6 A (CWC)	7.24Y	120.6	0.00	4.37	1.48	1	10	3	96	0.00	0.0	3.673	0.087	10	3	2	2
PL.62961	PL.63825	B	1/0 AL URD	7.24Y	120.6	0.00	4.35	0.00	0	0	0	100	0.00	0.0	3.493	0.006	0	0	0	0

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Balanced Voltage Drop Report  
Source: West London 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.57304	PL.57302	B	1/0 AL URD	7.24Y	120.7	0.01	4.30	10.33	6	72	21	96	0.01	0.0	3.328	0.039	12	4	1	9
PL.57305	PL.57304	B	1/0 AL URD	7.24Y	120.7	0.02	4.31	8.54	5	59	18	96	0.01	0.0	3.385	0.057	0	0	1	8
PL.57293	PL.57305	B	1/0 AL URD	7.24Y	120.7	0.01	4.33	8.50	5	59	17	96	0.01	0.0	3.437	0.052	0	0	0	7
PL.60986	PL.57293	B	1/0 AL URD	7.24Y	120.7	0.00	4.33	8.50	5	59	17	96	0.00	0.0	3.438	0.000	18	5	1	7
PL.60987	PL.60986	B	1/0 AL URD	7.24Y	120.7	0.01	4.33	5.97	4	41	12	96	0.00	0.0	3.468	0.031	0	0	0	6
PL.63282	PL.60987	B	1/0 AL URD	7.24Y	120.7	0.01	4.34	5.97	4	41	12	96	0.00	0.0	3.522	0.053	8	2	2	6
PL.63283	PL.63282	B	1/0 AL URD	7.24Y	120.7	0.01	4.35	4.82	3	33	10	96	0.00	0.0	3.570	0.048	14	4	2	4
PL.57294	PL.63283	B	1/0 AL URD	7.24Y	120.6	0.01	4.36	2.80	2	19	6	95	0.00	0.0	3.649	0.080	0	0	0	2
PL.57295	PL.57294	B	1/0 AL URD	7.24Y	120.6	0.01	4.36	2.80	2	19	6	95	0.00	0.0	3.723	0.073	0	0	1	2
PL.57296	PL.57295	B	1/0 AL URD	7.24Y	120.6	0.00	4.36	2.78	2	19	6	95	0.00	0.0	3.754	0.031	0	0	0	1
PL.57297	PL.57296	B	1/0 AL URD	7.24Y	120.6	0.00	4.37	2.78	2	19	6	95	0.00	0.0	3.784	0.030	0	0	0	1
PL.57298	PL.57297	B	1/0 AL URD	7.24Y	120.6	0.00	4.37	2.78	2	19	6	95	0.00	0.0	3.842	0.059	19	6	1	1
PL.57299	PL.57298	B	1/0 AL URD	7.24Y	120.6	0.00	4.37	0.00	0	0	0	100	0.00	0.0	3.934	0.091	0	0	0	0
PL.57300	PL.57299	B	1/0 AL URD	7.24Y	120.6	0.00	4.37	0.00	0	0	0	100	0.00	0.0	3.950	0.017	0	0	0	0
PL.43756	PL.43753	C	6 A (CWC)	7.25Y	120.8	0.00	4.24	9.72	7	68	20	96	0.00	0.0	3.192	0.006	0	0	0	4
PD.6410	PL.43756	C	50QA	7.25Y	120.8	0.00	4.24	9.72	19	68	20	96	0.00	0.0	3.192	0.006	0	0	0	4
PL.43757	PD.6410	C	6 A (CWC)	7.25Y	120.8	0.00	4.25	9.72	7	68	20	96	0.00	0.0	3.203	0.010	27	8	1	4
PL.42267	PL.43757	C	1/0 AL URD	7.24Y	120.7	0.00	4.25	5.89	3	41	12	96	0.00	0.0	3.221	0.018	0	0	0	3
PL.43758	PL.42267	C	1/0 AL URD	7.24Y	120.7	0.00	4.26	5.89	3	41	12	96	0.00	0.0	3.251	0.031	19	6	1	3
PL.43759	PL.43758	C	1/0 AL URD	7.24Y	120.7	0.00	4.26	3.19	2	22	7	95	0.00	0.0	3.292	0.040	12	4	1	2
PL.42264	PL.43759	C	1/0 AL URD	7.24Y	120.7	0.00	4.26	1.44	1	10	3	96	0.00	0.0	3.365	0.073	10	3	1	1
PL.43761	PL.42264	C	1/0 AL URD	7.24Y	120.7	0.00	4.26	0.00	0	0	0	100	0.00	0.0	3.371	0.006	0	0	0	0
PL.43751	PL.61000	C	6 A (CWC)	7.25Y	120.8	0.00	4.21	1.71	1	12	4	95	0.00	0.0	3.136	0.006	0	0	0	2
PD.6609	PL.43751	C	50QA	7.25Y	120.8	0.00	4.21	1.71	3	12	4	95	0.00	0.0	3.136	0.006	0	0	0	2
PL.43754	PD.6609	C	6 A (CWC)	7.25Y	120.8	0.00	4.21	1.71	1	12	4	95	0.00	0.0	3.146	0.010	12	4	2	2
PL.43755	PL.43754	C	6 A (CWC)	7.25Y	120.8	0.00	4.21	0.00	0	0	0	100	0.00	0.0	3.266	0.120	0	0	0	0
PL.60998	PL.60999	C	6 A (CWC)	7.25Y	120.8	0.00	4.20	3.06	2	21	6	96	0.00	0.0	3.138	0.032	0	0	0	2
PL.43406	PL.60998	C	1/0 AL URD	7.25Y	120.8	0.00	4.20	3.06	2	21	6	96	0.00	0.0	3.144	0.006	0	0	0	2
PD.6532	PL.43406	C	50QA	7.25Y	120.8	0.00	4.20	3.06	6	21	6	96	0.00	0.0	3.144	0.006	0	0	0	2
PL.43407	PD.6532	C	1/0 AL URD	7.25Y	120.8	0.00	4.21	3.06	2	21	6	96	0.00	0.0	3.168	0.024	11	3	1	2
PL.43749	PL.43407	C	1/0 AL URD	7.25Y	120.8	0.00	4.21	1.49	1	10	3	96	0.00	0.0	3.209	0.041	10	3	1	1

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Balanced Voltage Drop Report  
Source: West London 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.43750	PL.43749	C	1/0 AL URD	7.25Y	120.8	0.00	4.21	0.00	0	0	0	100	0.00	0.0	3.247	0.038	0	0	0	0
PL.42249	PL.43750	C	1/0 AL URD	7.25Y	120.8	0.00	4.21	0.00	0	0	0	100	0.00	0.0	3.287	0.040	0	0	0	0
PL.43760	PL.42249	C	1/0 AL URD	7.25Y	120.8	0.00	4.21	0.00	0	0	0	100	0.00	0.0	3.369	0.082	0	0	0	0
PL.43399	PL.43397	C	#2 ACSR	7.25Y	120.9	0.00	4.13	2.04	1	14	4	96	0.00	0.0	2.988	0.006	0	0	0	2
PD.6123	PL.43399	C	50QA	7.25Y	120.9	0.00	4.13	2.04	4	14	4	96	0.00	0.0	2.988	0.006	0	0	0	2
PL.43400	PD.6123	C	#2 ACSR	7.25Y	120.9	0.00	4.13	2.04	1	14	4	96	0.00	0.0	3.017	0.029	14	4	2	2
PL.43398	PL.43397	A	6 A (CWC)	7.25Y	120.9	0.00	4.13	7.51	5	52	15	96	0.00	0.0	2.988	0.006	0	0	0	6
PD.6445	PL.43398	A	50QA	7.25Y	120.9	0.00	4.13	7.51	15	52	15	96	0.00	0.0	2.988	0.006	0	0	0	6
PL.43401	PD.6445	A	6 A (CWC)	7.25Y	120.9	0.01	4.14	7.51	5	52	15	96	0.00	0.0	3.009	0.021	16	5	2	6
PL.43402	PL.43401	A	6 A (CWC)	7.25Y	120.9	0.00	4.14	5.15	4	36	11	96	0.00	0.0	3.033	0.024	36	11	4	4
PL.60991	PL.43748	C	6 A (CWC)	7.25Y	120.9	0.00	4.09	3.28	2	23	7	96	0.00	0.0	2.937	0.021	0	0	0	2
PD.9082	PL.60991	C	15T	7.25Y	120.9	0.00	4.09	3.28	0	23	7	96	0.00	0.0	2.937	0.021	0	0	0	2
PL.60992	PD.9082	C	6 A (CWC)	7.25Y	120.9	0.00	4.10	3.28	2	23	7	96	0.00	0.0	3.000	0.064	23	7	2	2
PL.41810	PL.41711	A	6 A (CWC)	7.28Y	121.3	0.05	3.70	25.63	18	179	53	96	0.07	0.0	2.437	0.050	27	8	1	18
PL.58776	PL.41810	A	6 A (CWC)	7.28Y	121.3	0.00	3.70	15.72	11	110	32	96	0.00	0.0	2.440	0.004	0	0	0	10
PD.8737	PL.58776	A	20T	7.28Y	121.3	0.00	3.70	15.72	0	110	32	96	0.00	0.0	2.440	0.004	0	0	0	10
PL.58777	PD.8737	A	6 A (CWC)	7.28Y	121.3	0.03	3.74	15.72	11	110	32	96	0.03	0.0	2.492	0.052	15	5	1	10
PL.72955	PL.58777	A	6 A (CWC)	7.27Y	121.2	0.03	3.77	13.53	10	94	28	96	0.02	0.0	2.547	0.055	21	6	2	9
PL.43726	PL.72955	A	6 A (CWC)	7.27Y	121.2	0.01	3.78	7.09	5	49	15	96	0.00	0.0	2.582	0.035	0	0	0	5
PL.54295	PL.43726	A	6 A (CWC)	7.27Y	121.2	0.02	3.80	7.09	5	49	15	96	0.01	0.0	2.654	0.073	18	5	1	5
PL.54296	PL.54295	A	6 A (CWC)	7.27Y	121.2	0.01	3.81	4.57	3	32	9	96	0.00	0.0	2.718	0.064	0	0	0	4
PL.54294	PL.54296	A	#2 ACSR	7.27Y	121.2	0.00	3.81	1.12	1	8	2	97	0.00	0.0	2.746	0.028	8	2	2	2
PL.43727	PL.54296	A	6 A (CWC)	7.27Y	121.2	0.01	3.82	3.45	2	24	7	96	0.00	0.0	2.770	0.052	0	0	0	2
PL.43728	PL.43727	A	6 A (CWC)	7.27Y	121.2	0.00	3.82	1.78	1	12	4	95	0.00	0.0	2.807	0.037	12	4	1	1
PL.41300	PL.43727	A	#4 ACSR	7.27Y	121.2	0.00	3.83	1.66	1	12	3	97	0.00	0.0	2.847	0.077	12	3	1	1
PL.41629	PL.43726	A	6 A (CWC)	7.27Y	121.2	0.00	3.78	0.00	0	0	0	100	0.00	0.0	2.635	0.053	0	0	0	0
PL.41634	PL.72955	A	6 A (CWC)	7.27Y	121.2	0.00	3.77	3.48	2	24	7	96	0.00	0.0	2.579	0.033	24	7	2	2
PL.58774	PL.41810	A	6 A (CWC)	7.28Y	121.3	0.00	3.70	6.01	4	42	12	96	0.00	0.0	2.441	0.004	0	0	0	7
PD.8736	PL.58774	A	30T	7.28Y	121.3	0.00	3.70	6.01	0	42	12	96	0.00	0.0	2.441	0.004	0	0	0	7
PL.58775	PD.8736	A	6 A (CWC)	7.27Y	121.2	0.05	3.75	6.01	4	42	12	96	0.02	0.0	2.625	0.184	0	0	0	7
PL.58771	PL.58775	A	#2 ACSR	7.27Y	121.2	0.00	3.75	0.00	0	0	0	100	0.00	0.0	2.782	0.158	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: West London 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.58773	PL.58775	A	6 A (CWC)	7.27Y	121.2	0.00	3.76	2.20	2	15	5	95	0.00	0.0	2.643	0.018	0	0	0	4
PL.43731	PL.58773	A	6 A (CWC)	7.27Y	121.2	0.01	3.77	1.22	1	9	3	95	0.00	0.0	2.814	0.171	0	0	2	3
PL.43732	PL.43731	A	6 A (CWC)	7.27Y	121.2	0.00	3.77	1.18	1	8	2	97	0.00	0.0	2.834	0.020	8	2	1	1
PL.41377	PL.58773	A	#4 ACSR	7.27Y	121.2	0.00	3.76	0.97	1	7	2	96	0.00	0.0	2.798	0.155	7	2	1	1
PL.58772	PL.58775	A	#4 ACSR	7.27Y	121.2	0.01	3.77	3.81	3	27	8	96	0.00	0.0	2.708	0.083	0	0	0	3
PL.43729	PL.58772	A	#4 ACSR	7.27Y	121.2	0.00	3.77	3.11	2	22	6	96	0.00	0.0	2.735	0.028	7	2	1	2
PL.43730	PL.43729	A	#4 ACSR	7.27Y	121.2	0.00	3.77	2.18	2	15	4	97	0.00	0.0	2.774	0.039	15	4	1	1
PL.41637	PL.58772	A	#4 ACSR	7.27Y	121.2	0.00	3.77	0.70	1	5	1	98	0.00	0.0	2.756	0.048	5	1	1	1
PL.41776	PL.41711	A	#2 ACSR	7.28Y	121.4	0.00	3.65	1.08	1	8	2	97	0.00	0.0	2.422	0.035	8	2	1	1
PL.54113	PL.41711	ABC	#1/0 ACSR	7.28Y	121.3	0.00	3.65	4.10	2	81	39	90	0.00	0.0	2.419	0.032	0	0	0	1
PL.54114	PL.54113	ABC	1/0 AL URD	7.28Y	121.3	0.00	3.65	4.10	2	81	39	90	0.00	0.0	2.456	0.037	81	39	1	1
PL.43719	PL.43713	C	6 A (CWC)	7.32Y	121.9	0.00	3.05	2.36	2	17	5	96	0.00	0.0	1.917	0.006	0	0	0	1
PD.6122	PL.43719	C	75QA	7.32Y	121.9	0.00	3.05	2.36	3	17	5	96	0.00	0.0	1.917	0.006	0	0	0	1
PL.43720	PD.6122	C	6 A (CWC)	7.32Y	121.9	0.00	3.05	2.36	2	17	5	96	0.00	0.0	1.996	0.079	17	5	1	1
PL.43030	PL.43713	ABC	336 MCM AC	7.31Y	121.9	0.05	3.10	66.88	13	1406	424	96	0.34	0.0	2.002	0.091	0	0	0	147
PL.54387	PL.43030	ABC	336 MCM AC	7.31Y	121.9	0.03	3.13	66.88	13	1405	423	96	0.24	0.0	2.066	0.064	21	6	1	147
PL.54390	PL.54387	ABC	336 MCM AC	7.31Y	121.8	0.05	3.18	63.36	12	1331	401	96	0.33	0.0	2.164	0.098	16	5	1	139
PL.43033	PL.54390	ABC	336 MCM AC	7.31Y	121.8	0.04	3.22	61.06	12	1282	385	96	0.29	0.0	2.257	0.093	0	0	0	135
PL.43034	PL.43033	ABC	336 MCM AC	7.31Y	121.8	0.00	3.22	61.06	12	1282	385	96	0.02	0.0	2.263	0.006	0	0	0	135
RG.43	PL.43034	ABC	250kva	7.45Y	124.1	-2.33	0.89	61.06	19	1282	385	96	percent Boost= 1.88 Tap= 3.0			0	0	0	135	
PL.43035	RG.43	ABC	336 MCM AC	7.45Y	124.1	0.01	0.90	59.92	12	1282	385	96	0.05	0.0	2.279	0.016	0	0	0	135
PL.54351	PL.43035	ABC	336 MCM AC	7.44Y	124.0	0.05	0.95	58.17	11	1245	374	96	0.33	0.0	2.396	0.117	25	7	3	131
PL.57365	PL.54351	ABC	336 MCM AC	7.44Y	124.0	0.00	0.95	0.46	0	10	3	96	0.00	0.0	2.457	0.061	0	0	0	1
PL.57367	PL.57365	ABC	336 MCM AC	7.44Y	124.0	0.00	0.95	0.00	0	0	0	100	0.00	0.0	2.514	0.057	0	0	0	0
PD.8356-A	PL.57367	ABC	Open	7.44Y	124.0	0.00	0.95	0.00	0	0	0	100	0.00	0.0	2.514	0.057	0	0	0	0
PL.57366	PL.57365	C	#4 ACSR	7.44Y	124.0	0.00	0.95	1.39	1	10	3	96	0.00	0.0	2.462	0.006	0	0	0	1
PD.6739	PL.57366	C	75QA	7.44Y	124.0	0.00	0.95	1.39	2	10	3	96	0.00	0.0	2.462	0.006	0	0	0	1
PL.43029	PD.6739	C	#4 ACSR	7.44Y	124.0	0.00	0.96	1.39	1	10	3	96	0.00	0.0	2.548	0.086	10	3	1	1
PL.54350	PL.54351	ABC	#1/0 ACSR	7.44Y	124.0	0.02	0.98	56.54	25	1209	362	96	0.19	0.0	2.418	0.022	0	0	0	127
PL.64838	PL.54350	ABC	#1/0 ACSR	7.44Y	124.0	0.01	0.98	56.54	25	1209	362	96	0.05	0.0	2.424	0.006	0	0	0	127
PD.9562	PL.64838	ABC	100L	7.44Y	124.0	0.00	0.98	56.54	57	1209	362	96	0.00	0.0	2.424	0.006	0	0	0	127

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Balanced Voltage Drop Report  
Source: West London 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.64837	PD.9562	ABC	#1/0 ACSR	7.44Y	123.9	0.09	1.07	56.54	25	1209	362	96	0.73	0.1	2.510	0.086	0	0	1	127
PL.60760	PL.64837	ABC	#1/0 ACSR	7.43Y	123.9	0.02	1.10	56.16	24	1200	359	96	0.20	0.0	2.533	0.023	0	0	0	124
PL.63303	PL.60760	B	1/0 AL URD	7.43Y	123.9	0.00	1.10	3.24	2	23	7	96	0.00	0.0	2.600	0.066	23	7	2	2
PL.60761	PL.60760	ABC	#1/0 ACSR	7.43Y	123.8	0.12	1.21	55.08	24	1177	352	96	0.95	0.1	2.651	0.118	0	0	0	122
PL.60988	PL.60761	ABC	#1/0 ACSR	7.42Y	123.7	0.10	1.31	52.14	23	1113	333	96	0.75	0.1	2.754	0.103	0	0	0	116
PL.43187	PL.60988	ABC	#1/0 ACSR	7.42Y	123.6	0.10	1.41	49.96	22	1066	318	96	0.73	0.1	2.864	0.110	0	0	0	110
PL.43763	PL.43187	ABC	#1/0 ACSR	7.41Y	123.5	0.07	1.48	49.96	22	1065	317	96	0.53	0.1	2.945	0.081	6	2	1	110
PL.43764	PL.43763	ABC	#1/0 ACSR	7.41Y	123.4	0.09	1.57	49.68	22	1059	315	96	0.63	0.1	3.040	0.095	0	0	0	109
PL.52831	PL.43764	ABC	#1/0 ACSR	7.40Y	123.4	0.05	1.62	48.30	21	1029	306	96	0.35	0.0	3.096	0.056	0	0	0	107
PL.52832	PL.52831	ABC	#1/0 ACSR	7.40Y	123.3	0.04	1.66	43.46	19	925	275	96	0.22	0.0	3.141	0.045	0	0	0	95
PL.52936	PL.52832	ABC	#1/0 ACSR	7.39Y	123.2	0.17	1.83	43.30	19	921	274	96	1.08	0.1	3.358	0.218	9	3	1	94
PL.52939	PL.52936	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.84	22.16	10	471	139	96	0.05	0.0	3.400	0.042	0	0	0	52
PL.52940	PL.52939	ABC	#2 ACSR	7.39Y	123.1	0.03	1.87	21.85	12	464	137	96	0.11	0.0	3.456	0.056	2	1	2	51
PL.52941	PL.52940	ABC	#2 ACSR	7.39Y	123.1	0.01	1.88	21.74	12	462	137	96	0.03	0.0	3.469	0.013	0	0	0	49
PL.52829	PL.52941	ABC	1/0 AL URD	7.39Y	123.1	0.00	1.88	21.74	13	462	137	96	0.00	0.0	3.470	0.001	0	0	0	49
PD.7978	PL.52829	ABC	40QA	7.39Y	123.1	0.00	1.88	21.74	54	462	137	96	0.00	0.0	3.470	0.001	0	0	0	49
PL.52911	PD.7978	ABC	1/0 AL URD	7.39Y	123.1	0.00	1.88	21.74	13	462	137	96	0.01	0.0	3.475	0.005	0	0	0	49
PL.52913	PL.52911	C	1/0 AL URD	7.39Y	123.1	0.00	1.89	3.55	2	25	7	96	0.00	0.0	3.494	0.019	11	3	1	2
PL.52835	PL.52913	C	1/0 AL URD	7.39Y	123.1	0.00	1.89	1.94	1	14	4	96	0.00	0.0	3.543	0.049	14	4	1	1
PL.52836	PL.52835	C	1/0 AL URD	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	3.594	0.051	0	0	0	0
PL.52912	PL.52911	ABC	1/0 AL URD	7.39Y	123.1	0.03	1.92	12.60	7	268	79	96	0.07	0.0	3.600	0.126	0	0	0	29
PL.52908	PL.52912	A	1/0 AL URD	7.38Y	123.1	0.02	1.94	18.03	11	128	38	96	0.02	0.0	3.645	0.045	17	5	3	16
PL.52909	PL.52908	A	1/0 AL URD	7.38Y	123.0	0.03	1.97	15.56	9	110	33	96	0.02	0.0	3.707	0.062	13	4	2	13
PL.52844	PL.52909	A	1/0 AL URD	7.38Y	123.0	0.02	1.99	13.66	8	97	29	96	0.01	0.0	3.754	0.047	19	6	2	11
PL.52845	PL.52844	A	1/0 AL URD	7.38Y	123.0	0.01	2.00	10.92	6	77	23	96	0.01	0.0	3.801	0.047	20	6	3	9
PL.52846	PL.52845	A	1/0 AL URD	7.38Y	123.0	0.01	2.01	8.14	5	58	17	96	0.00	0.0	3.857	0.056	25	7	2	6
PL.52847	PL.52846	A	1/0 AL URD	7.38Y	123.0	0.01	2.02	4.60	3	33	10	96	0.00	0.0	3.907	0.051	17	5	3	4
PL.52848	PL.52847	A	1/0 AL URD	7.38Y	123.0	0.00	2.02	2.18	1	15	5	95	0.00	0.0	3.936	0.028	0	0	0	1
PL.52834	PL.52848	A	6 A (CWC)	7.38Y	123.0	0.01	2.03	2.18	2	15	5	95	0.00	0.0	4.055	0.119	0	0	0	1
PL.43766	PL.52834	A	6 A (CWC)	7.38Y	123.0	0.00	2.03	0.00	0	0	0	100	0.00	0.0	4.178	0.123	0	0	0	0
PL.52942	PL.52834	A	#2 ACSR	7.38Y	123.0	0.00	2.03	2.18	1	15	5	95	0.00	0.0	4.126	0.071	15	5	1	1

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Balanced Voltage Drop Report  
Source: West London 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.52849	PL.52847	A	1/0 AL URD	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	3.914	0.007	0	0	0	0
PL.52851	PL.52912	A	1/0 AL URD	7.38Y	123.1	0.01	1.93	11.55	7	82	24	96	0.01	0.0	3.646	0.045	22	7	2	8
PL.52852	PL.52851	A	1/0 AL URD	7.38Y	123.1	0.01	1.94	8.38	5	59	18	96	0.00	0.0	3.682	0.036	16	5	1	6
PL.52850	PL.52852	A	1/0 AL URD	7.38Y	123.1	0.01	1.94	6.07	4	43	13	96	0.00	0.0	3.718	0.036	18	5	3	5
PL.52725	PL.52850	A	1/0 AL URD	7.38Y	123.1	0.00	1.95	3.46	2	25	7	96	0.00	0.0	3.750	0.032	25	7	2	2
PL.52943	PL.52725	A	1/0 AL URD	7.38Y	123.1	0.00	1.95	0.00	0	0	0	100	0.00	0.0	3.806	0.056	0	0	0	0
PL.53383	PL.52725	A	1/0 AL URD	7.38Y	123.1	0.00	1.95	0.00	0	0	0	100	0.00	0.0	3.752	0.002	0	0	0	0
PL.52910	PL.52912	ABC	1/0 AL URD	7.38Y	123.1	0.01	1.92	2.75	2	58	17	96	0.00	0.0	3.703	0.103	0	0	0	5
PL.52745	PL.52910	ABC	1/0 AL URD	7.38Y	123.1	0.01	1.93	2.75	2	58	17	96	0.00	0.0	3.869	0.166	0	0	0	5
PL.52746	PL.52745	C	1/0 AL URD	7.38Y	123.1	0.00	1.93	0.00	0	0	0	100	0.00	0.0	3.876	0.007	0	0	0	0
PL.53389	PL.52745	ABC	1/0 AL URD	7.38Y	123.1	0.01	1.94	2.75	2	58	17	96	0.00	0.0	3.972	0.103	0	0	0	5
PL.53385	PL.53389	B	1/0 AL URD	7.38Y	123.1	0.01	1.94	6.94	4	49	15	96	0.00	0.0	4.002	0.030	0	0	0	4
PL.53386	PL.53385	B	1/0 AL URD	7.38Y	123.0	0.01	1.95	6.94	4	49	15	96	0.00	0.0	4.055	0.053	23	7	2	4
PL.52726	PL.53386	B	1/0 AL URD	7.38Y	123.0	0.00	1.95	3.64	2	26	8	96	0.00	0.0	4.115	0.060	26	8	2	2
PL.53384	PL.52726	B	1/0 AL URD	7.38Y	123.0	0.00	1.95	0.00	0	0	0	100	0.00	0.0	4.200	0.085	0	0	0	0
PL.53388	PL.53389	B	1/0 AL URD	7.38Y	123.1	0.00	1.94	1.30	1	9	3	95	0.00	0.0	4.009	0.037	0	0	0	1
PL.52730	PL.53388	B	1/0 AL URD	7.38Y	123.1	0.00	1.94	1.30	1	9	3	95	0.00	0.0	4.066	0.057	0	0	0	1
PL.52731	PL.52730	B	1/0 AL URD	7.38Y	123.1	0.00	1.94	1.30	1	9	3	95	0.00	0.0	4.110	0.044	0	0	0	1
PL.52732	PL.52731	B	1/0 AL URD	7.38Y	123.1	0.00	1.94	1.30	1	9	3	95	0.00	0.0	4.151	0.041	0	0	0	1
PL.52733	PL.52732	B	1/0 AL URD	7.38Y	123.1	0.00	1.95	1.30	1	9	3	95	0.00	0.0	4.221	0.070	0	0	0	1
PL.52734	PL.52733	B	1/0 AL URD	7.38Y	123.1	0.00	1.95	1.30	1	9	3	95	0.00	0.0	4.258	0.037	0	0	0	1
PL.52735	PL.52734	B	1/0 AL URD	7.38Y	123.1	0.00	1.95	1.30	1	9	3	95	0.00	0.0	4.297	0.039	0	0	0	1
PL.52736	PL.52735	B	1/0 AL URD	7.38Y	123.0	0.00	1.95	1.30	1	9	3	95	0.00	0.0	4.339	0.042	0	0	0	1
PL.52737	PL.52736	B	1/0 AL URD	7.38Y	123.0	0.00	1.95	1.30	1	9	3	95	0.00	0.0	4.382	0.043	0	0	0	1
PL.57875	PL.52737	B	1/0 AL URD	7.38Y	123.0	0.00	1.95	1.30	1	9	3	95	0.00	0.0	4.414	0.032	9	3	1	1
PL.57876	PL.57875	B	1/0 AL URD	7.38Y	123.0	0.00	1.95	0.00	0	0	0	100	0.00	0.0	4.428	0.014	0	0	0	0
PL.52738	PL.57876	B	1/0 AL URD	7.38Y	123.0	0.00	1.95	0.00	0	0	0	100	0.00	0.0	4.519	0.091	0	0	0	0
PL.52740	PL.52738	B	1/0 AL URD	7.38Y	123.0	0.00	1.95	0.00	0	0	0	100	0.00	0.0	4.614	0.095	0	0	0	0
PL.52741	PL.52740	B	1/0 AL URD	7.38Y	123.0	0.00	1.95	0.00	0	0	0	100	0.00	0.0	4.657	0.043	0	0	0	0
PL.53387	PL.53389	B	1/0 AL URD	7.38Y	123.1	0.00	1.94	0.00	0	0	0	100	0.00	0.0	3.989	0.017	0	0	0	0
PL.52739	PL.53387	B	1/0 AL URD	7.38Y	123.1	0.00	1.94	0.00	0	0	0	100	0.00	0.0	4.031	0.042	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: West London 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.52742	PL.53387	B	1/0 AL URD	7.38Y	123.1	0.00	1.94	0.00	0	0	0	100	0.00	0.0	3.995	0.006	0	0	0	0
PL.52914	PL.52911	C	1/0 AL URD	7.39Y	123.1	0.02	1.90	23.87	14	169	50	96	0.03	0.0	3.504	0.029	15	4	1	18
PL.52915	PL.52914	C	1/0 AL URD	7.38Y	123.1	0.02	1.93	17.15	10	121	36	96	0.02	0.0	3.546	0.042	0	0	0	12
PL.52919	PL.52915	C	1/0 AL URD	7.38Y	123.0	0.03	1.96	17.15	10	121	36	96	0.03	0.0	3.614	0.068	30	9	3	12
PL.52920	PL.52919	C	1/0 AL URD	7.38Y	123.0	0.02	1.98	12.88	8	91	27	96	0.01	0.0	3.674	0.059	26	8	2	9
PL.52921	PL.52920	C	1/0 AL URD	7.38Y	123.0	0.00	1.98	0.00	0	0	0	100	0.00	0.0	3.681	0.008	0	0	0	0
PL.52727	PL.52920	C	1/0 AL URD	7.38Y	123.0	0.02	2.00	9.23	5	65	19	96	0.01	0.0	3.761	0.088	27	8	2	7
PL.52728	PL.52727	C	1/0 AL URD	7.38Y	123.0	0.01	2.01	5.39	3	38	11	96	0.00	0.0	3.841	0.080	19	6	2	5
PL.52748	PL.52728	C	1/0 AL URD	7.38Y	123.0	0.01	2.02	2.67	2	19	6	95	0.00	0.0	3.916	0.075	7	2	2	3
PL.52749	PL.52748	C	1/0 AL URD	7.38Y	123.0	0.01	2.02	1.72	1	12	4	95	0.00	0.0	4.024	0.108	0	0	0	1
PL.52729	PL.52749	C	1/0 AL URD	7.38Y	123.0	0.00	2.02	1.72	1	12	4	95	0.00	0.0	4.071	0.047	12	4	1	1
PL.52743	PL.52729	C	1/0 AL URD	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	4.120	0.049	0	0	0	0
PL.52747	PL.52743	C	1/0 AL URD	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	4.151	0.031	0	0	0	0
PL.52744	PL.52743	C	1/0 AL URD	7.38Y	123.0	0.00	2.02	0.00	0	0	0	100	0.00	0.0	4.125	0.005	0	0	0	0
PL.52916	PL.52914	C	1/0 AL URD	7.39Y	123.1	0.01	1.91	4.62	3	33	10	96	0.00	0.0	3.558	0.054	23	7	2	5
PL.52918	PL.52916	C	1/0 AL URD	7.39Y	123.1	0.00	1.91	1.43	1	10	3	96	0.00	0.0	3.612	0.054	10	3	3	3
PL.52917	PL.52918	C	1/0 AL URD	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	3.636	0.025	0	0	0	0
PL.52377	PL.52939	A	#4 ACSR	7.39Y	123.2	0.00	1.84	0.95	1	7	2	96	0.00	0.0	3.401	0.002	0	0	0	1
PD.7969	PL.52377	A	40QA	7.39Y	123.2	0.00	1.84	0.95	2	7	2	96	0.00	0.0	3.401	0.002	0	0	0	1
PL.52378	PD.7969	A	#4 ACSR	7.39Y	123.2	0.00	1.85	0.95	1	7	2	96	0.00	0.0	3.540	0.139	7	2	1	1
PL.52938	PL.52936	A	#1/0 ACSR	7.39Y	123.2	0.00	1.83	0.64	0	5	1	98	0.00	0.0	3.364	0.006	0	0	0	1
PD.6783	PL.52938	A	10QA	7.39Y	123.2	0.00	1.83	0.64	0	5	1	98	0.00	0.0	3.364	0.006	0	0	0	1
PL.52935	PD.6783	A	#1/0 ACSR	7.39Y	123.2	0.00	1.83	0.64	0	5	1	98	0.00	0.0	3.377	0.014	5	1	1	1
PL.52937	PL.52936	ABC	#1/0 ACSR	7.39Y	123.1	0.06	1.89	20.49	9	435	129	96	0.19	0.0	3.527	0.169	0	0	0	40
PL.56354	PL.52937	ABC	#1/0 ACSR	7.38Y	123.1	0.04	1.93	19.22	8	408	121	96	0.10	0.0	3.629	0.102	0	0	0	38
PL.56355	PL.56354	ABC	#1/0 ACSR	7.38Y	123.0	0.07	2.00	18.47	8	392	116	96	0.19	0.0	3.838	0.209	0	0	0	36
PL.56356	PL.56355	B	#4 ACSR	7.38Y	123.0	0.00	2.00	1.45	1	10	3	96	0.00	0.0	3.844	0.006	0	0	0	1
PD.6674	PL.56356	B	40QA	7.38Y	123.0	0.00	2.00	1.45	4	10	3	96	0.00	0.0	3.844	0.006	0	0	0	1
PL.52931	PD.6674	B	#4 ACSR	7.38Y	123.0	0.00	2.00	1.45	1	10	3	96	0.00	0.0	3.905	0.060	10	3	1	1
PL.56357	PL.56355	ABC	#1/0 ACSR	7.38Y	123.0	0.02	2.01	17.99	8	382	113	96	0.05	0.0	3.896	0.057	10	3	1	35
PL.52923	PL.56357	ABC	#1/0 ACSR	7.38Y	123.0	0.03	2.05	17.49	8	371	110	96	0.09	0.0	4.006	0.110	17	5	3	34

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Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.52922	PL.52923	ABC	#1/0 ACSR	7.38Y	122.9	0.01	2.05	3.07	1	65	19	96	0.00	0.0	4.114	0.108	0	0	0	9
PL.51531	PL.52922	B	6 A (CWC)	7.38Y	122.9	0.00	2.06	8.73	6	62	18	96	0.00	0.0	4.119	0.006	0	0	0	8
PD.7937	PL.51531	B	25T	7.38Y	122.9	0.00	2.06	8.73	0	62	18	96	0.00	0.0	4.119	0.006	0	0	0	8
PL.51532	PD.7937	B	6 A (CWC)	7.38Y	122.9	0.01	2.07	8.73	6	62	18	96	0.01	0.0	4.155	0.036	0	0	0	8
PL.52924	PL.51532	B	6 A (CWC)	7.37Y	122.9	0.06	2.13	8.73	6	62	18	96	0.02	0.0	4.319	0.164	16	5	1	8
PL.52927	PL.52924	B	#4 ACSR	7.37Y	122.9	0.02	2.15	3.92	3	28	8	96	0.00	0.0	4.440	0.120	2	0	1	3
PL.66193	PL.52927	B	6 A (CWC)	7.37Y	122.8	0.02	2.17	3.70	3	26	8	96	0.00	0.0	4.715	0.275	26	8	2	2
PL.64635	PL.66193	B	#4 ACSR	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	4.720	0.005	0	0	0	0
PD.9552-A	PL.64635	B	Closed	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	4.720	0.005	0	0	0	0
PD.9552-B	PD.9552-A	B	Closed	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	4.720	0.005	0	0	0	0
PL.64634	PD.9552-B	B	#4 ACSR	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	5.685	0.965	0	0	0	0
PD.9551-B	PL.64634	B	Open	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	5.685	0.965	0	0	0	0
PL.52925	PL.52924	B	#4 ACSR	7.37Y	122.9	0.00	2.13	2.56	2	18	5	96	0.00	0.0	4.348	0.029	14	4	3	4
PL.52926	PL.52925	B	#4 ACSR	7.37Y	122.9	0.00	2.13	0.55	0	4	1	97	0.00	0.0	4.412	0.064	4	1	1	1
PL.43767	PL.52922	B	6 A (CWC)	7.38Y	122.9	0.00	2.05	0.47	0	3	1	95	0.00	0.0	4.119	0.006	0	0	0	1
PD.6512	PL.43767	B	40QA	7.38Y	122.9	0.00	2.05	0.47	1	3	1	95	0.00	0.0	4.119	0.006	0	0	0	1
PL.52930	PD.6512	B	6 A (CWC)	7.38Y	122.9	0.00	2.05	0.47	0	3	1	95	0.00	0.0	4.152	0.032	3	1	1	1
PL.52751	PL.52923	B	#2 ACSR	7.38Y	122.9	0.01	2.06	40.89	23	289	86	96	0.02	0.0	4.012	0.006	0	0	0	22
PD.8058	PL.52751	B	60QA	7.38Y	122.9	0.00	2.06	40.89	68	289	86	96	0.00	0.0	4.012	0.006	0	0	0	22
PL.52752	PD.8058	B	#2 ACSR	7.38Y	122.9	0.02	2.08	40.89	23	289	86	96	0.05	0.0	4.028	0.017	0	0	0	22
PL.52754	PL.52752	B	1/0 AL URD	7.37Y	122.9	0.04	2.12	40.89	24	289	86	96	0.10	0.0	4.062	0.034	0	0	0	22
PL.53118	PL.52754	B	1/0 AL URD	7.37Y	122.9	0.01	2.13	19.19	11	136	40	96	0.01	0.0	4.078	0.016	0	0	0	10
PL.53117	PL.53118	B	1/0 AL URD	7.37Y	122.8	0.07	2.20	19.19	11	136	40	96	0.07	0.1	4.187	0.108	0	0	0	10
PL.53116	PL.53117	B	1/0 AL URD	7.37Y	122.8	0.02	2.21	19.19	11	136	40	96	0.02	0.0	4.218	0.031	18	5	2	10
PL.53115	PL.53116	B	1/0 AL URD	7.37Y	122.8	0.03	2.24	16.65	10	118	35	96	0.02	0.0	4.267	0.049	0	0	0	8
PL.53123	PL.53115	B	1/0 AL URD	7.36Y	122.7	0.02	2.26	16.65	10	118	35	96	0.02	0.0	4.309	0.042	18	5	1	8
PL.53124	PL.53123	B	1/0 AL URD	7.36Y	122.7	0.01	2.27	7.58	4	53	16	96	0.00	0.0	4.342	0.032	0	0	0	4
PD.7985	PL.53124	B	30QA	7.36Y	122.7	0.00	2.27	7.58	25	53	16	96	0.00	0.0	4.342	0.032	0	0	0	4
PL.53121	PD.7985	B	1/0 AL URD	7.36Y	122.7	0.00	2.27	7.58	4	53	16	96	0.00	0.0	4.345	0.003	0	0	0	4
PL.53120	PL.53121	B	#4 ACSR	7.36Y	122.7	0.02	2.29	5.26	4	37	11	96	0.01	0.0	4.434	0.089	0	0	0	2
PL.52929	PL.53120	B	1/0 AL URD	7.36Y	122.7	0.01	2.30	2.74	2	19	6	95	0.00	0.0	4.612	0.178	19	6	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	Length (mi)	-----Element-----		Cons On	Cons Thru
PL.52750	PL.53120	B	6 A (CWC)	7.36Y	122.7	0.01	2.30	2.52	2	18	5	96	0.00	0.0	4.551	0.117	18	5	1	1
PL.53119	PL.53121	B	#2 ACSR	7.36Y	122.7	0.00	2.27	2.32	1	16	5	95	0.00	0.0	4.376	0.030	16	5	2	2
PL.53122	PL.53123	B	1/0 AL URD	7.36Y	122.7	0.02	2.28	6.52	4	46	14	96	0.01	0.0	4.459	0.150	29	8	2	3
PL.52861	PL.53122	B	1/0 AL URD	7.36Y	122.7	0.00	2.28	2.47	1	17	5	96	0.00	0.0	4.493	0.033	0	0	0	1
PL.52860	PL.52861	B	1/0 AL URD	7.36Y	122.7	0.00	2.28	2.47	1	17	5	96	0.00	0.0	4.520	0.027	17	5	1	1
PL.52859	PL.52860	B	1/0 AL URD	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	4.558	0.039	0	0	0	0
PL.52858	PL.52859	B	1/0 AL URD	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	4.611	0.053	0	0	0	0
PL.52857	PL.52858	B	1/0 AL URD	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	4.673	0.062	0	0	0	0
PL.52771	PL.52857	B	1/0 AL URD	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	4.721	0.047	0	0	0	0
PL.52770	PL.52771	B	1/0 AL URD	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	4.758	0.037	0	0	0	0
PL.52769	PL.52770	B	1/0 AL URD	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	4.813	0.055	0	0	0	0
PL.52854	PL.52769	B	1/0 AL URD	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	4.849	0.036	0	0	0	0
PL.52856	PL.52854	B	1/0 AL URD	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	4.944	0.095	0	0	0	0
PL.52755	PL.52754	B	1/0 AL URD	7.37Y	122.9	0.00	2.12	0.00	0	0	0	100	0.00	0.0	4.070	0.008	0	0	0	0
PL.52756	PL.52754	B	1/0 AL URD	7.37Y	122.8	0.08	2.20	21.70	13	153	45	96	0.09	0.1	4.184	0.121	13	4	1	12
PL.52757	PL.52756	B	1/0 AL URD	7.37Y	122.8	0.05	2.25	19.87	12	140	42	96	0.05	0.0	4.263	0.079	11	3	2	11
PL.52758	PL.52757	B	1/0 AL URD	7.36Y	122.7	0.04	2.28	18.36	11	130	38	96	0.03	0.0	4.332	0.068	25	7	2	9
PL.52759	PL.52758	B	1/0 AL URD	7.36Y	122.7	0.02	2.30	14.77	9	104	31	96	0.02	0.0	4.372	0.040	0	0	0	7
PL.52760	PL.52759	B	1/0 AL URD	7.36Y	122.7	0.03	2.33	14.77	9	104	31	96	0.02	0.0	4.430	0.058	0	0	0	7
PL.52761	PL.52760	B	1/0 AL URD	7.36Y	122.6	0.06	2.39	14.77	9	104	31	96	0.04	0.0	4.559	0.129	15	4	1	7
PL.52762	PL.52761	B	1/0 AL URD	7.36Y	122.6	0.02	2.40	12.70	7	90	27	96	0.01	0.0	4.608	0.048	14	4	1	6
PL.52763	PL.52762	B	1/0 AL URD	7.35Y	122.6	0.01	2.42	10.75	6	76	22	96	0.01	0.0	4.651	0.043	0	0	0	5
PL.52764	PL.52763	B	1/0 AL URD	7.35Y	122.5	0.03	2.45	10.75	6	76	22	96	0.02	0.0	4.752	0.101	0	0	0	5
PL.52765	PL.52764	B	1/0 AL URD	7.35Y	122.5	0.01	2.46	10.75	6	76	22	96	0.00	0.0	4.777	0.025	17	5	1	5
PL.52766	PL.52765	B	1/0 AL URD	7.35Y	122.5	0.01	2.47	8.32	5	59	17	96	0.01	0.0	4.822	0.046	0	0	0	4
PL.52767	PL.52766	B	1/0 AL URD	7.35Y	122.5	0.01	2.48	8.32	5	59	17	96	0.00	0.0	4.869	0.047	31	9	2	4
PL.52768	PL.52767	B	1/0 AL URD	7.35Y	122.5	0.00	2.48	3.88	2	27	8	96	0.00	0.0	4.924	0.055	14	4	1	2
PL.52853	PL.52768	B	1/0 AL URD	7.35Y	122.5	0.00	2.49	1.84	1	13	4	96	0.00	0.0	5.014	0.090	13	4	1	1
PL.52855	PL.52853	B	1/0 AL URD	7.35Y	122.5	0.00	2.49	0.00	0	0	0	100	0.00	0.0	5.020	0.006	0	0	0	0
PL.52753	PL.52752	B	1/0 AL URD	7.38Y	122.9	0.00	2.08	0.00	0	0	0	100	0.00	0.0	4.058	0.029	0	0	0	0
PL.56353	PL.56354	B	6 A (CWC)	7.38Y	123.1	0.01	1.93	2.24	2	16	5	95	0.00	0.0	3.741	0.112	5	2	1	2

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PL.63275	PL.56353	B	1/0 AL URD	7.38Y	123.1	0.00	1.94	1.49	1	11	3	96	0.00	0.0	3.777	0.036	11	3	1	1
PL.52932	PL.52937	C	#2 ACSR	7.39Y	123.1	0.00	1.89	3.80	2	27	8	96	0.00	0.0	3.533	0.006	0	0	0	2
PD.6737	PL.52932	C	40QA	7.39Y	123.1	0.00	1.89	3.80	10	27	8	96	0.00	0.0	3.533	0.006	0	0	0	2
PL.52933	PD.6737	C	#2 ACSR	7.39Y	123.1	0.01	1.90	3.80	2	27	8	96	0.00	0.0	3.629	0.097	1	0	1	2
PL.52934	PL.52933	C	1/0 AL URD	7.38Y	123.1	0.02	1.92	3.60	2	25	8	95	0.00	0.0	3.907	0.278	25	8	1	1
PL.58178	PL.52832	A	6 A (CWC)	7.40Y	123.3	0.00	1.66	0.49	0	3	1	95	0.00	0.0	3.143	0.003	0	0	0	1
PD.8602	PL.58178	A	40QA	7.40Y	123.3	0.00	1.66	0.49	1	3	1	95	0.00	0.0	3.143	0.003	0	0	0	1
PL.58179	PD.8602	A	6 A (CWC)	7.40Y	123.3	0.00	1.66	0.49	0	3	1	95	0.00	0.0	3.176	0.033	3	1	1	1
PL.60993	PL.52831	A	6 A (CWC)	7.40Y	123.4	0.00	1.62	14.52	10	103	31	96	0.00	0.0	3.099	0.003	0	0	0	12
PD.9083	PL.60993	A	30T	7.40Y	123.4	0.00	1.62	14.52	0	103	31	96	0.00	0.0	3.099	0.003	0	0	0	12
PL.60995	PD.9083	A	6 A (CWC)	7.40Y	123.3	0.03	1.65	14.52	10	103	31	96	0.02	0.0	3.150	0.051	8	2	1	12
PL.60996	PL.60995	A	6 A (CWC)	7.40Y	123.3	0.02	1.68	13.46	10	95	28	96	0.02	0.0	3.187	0.037	0	0	0	11
PL.60994	PL.60996	A	6 A (CWC)	7.40Y	123.3	0.02	1.69	13.46	10	95	28	96	0.01	0.0	3.215	0.028	7	2	1	11
PL.63273	PL.60994	A	6 A (CWC)	7.40Y	123.3	0.01	1.71	11.63	8	82	24	96	0.01	0.0	3.242	0.027	6	2	1	9
PL.63274	PL.63273	A	6 A (CWC)	7.39Y	123.2	0.05	1.76	10.78	8	76	23	96	0.03	0.0	3.344	0.102	0	0	0	8
PL.63266	PL.63274	A	6 A (CWC)	7.39Y	123.2	0.01	1.77	4.00	3	28	8	96	0.00	0.0	3.404	0.061	0	0	0	4
PL.54321	PL.63266	A	6 A (CWC)	7.39Y	123.2	0.01	1.78	4.00	3	28	8	96	0.00	0.0	3.496	0.092	8	2	1	4
PL.54320	PL.54321	A	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.60	0	4	1	97	0.00	0.0	3.536	0.040	4	1	2	2
PL.54319	PL.54321	A	#2 ACSR	7.39Y	123.2	0.00	1.79	2.29	1	16	5	95	0.00	0.0	3.590	0.093	16	5	1	1
PL.63267	PL.63274	A	6 A (CWC)	7.39Y	123.2	0.00	1.76	1.88	1	13	4	96	0.00	0.0	3.409	0.065	7	2	1	2
PL.63268	PL.63267	A	6 A (CWC)	7.39Y	123.2	0.00	1.76	0.88	1	6	2	95	0.00	0.0	3.439	0.030	6	2	1	1
PL.66191	PL.63274	A	#4 ACSR	7.39Y	123.2	0.01	1.77	4.90	4	35	10	96	0.00	0.0	3.402	0.058	16	5	1	2
PL.66192	PL.66191	A	#4 ACSR	7.39Y	123.2	0.00	1.77	2.71	2	19	6	95	0.00	0.0	3.402	0.000	0	0	0	1
PL.66190	PL.66192	A	#4 ACSR	7.39Y	123.2	0.00	1.77	2.71	2	19	6	95	0.00	0.0	3.427	0.025	19	6	1	1
PL.52833	PL.60994	A	#2 ACSR	7.40Y	123.3	0.00	1.70	0.90	1	6	2	95	0.00	0.0	3.247	0.032	6	2	1	1
PL.43765	PL.43764	C	6 A (CWC)	7.41Y	123.4	0.00	1.57	4.12	3	29	9	96	0.00	0.0	3.046	0.006	0	0	0	2
PD.6782	PL.43765	C	40QA	7.41Y	123.4	0.00	1.57	4.12	10	29	9	96	0.00	0.0	3.046	0.006	0	0	0	2
PL.52830	PD.6782	C	6 A (CWC)	7.41Y	123.4	0.01	1.58	4.12	3	29	9	96	0.00	0.0	3.109	0.063	29	9	2	2
PL.43186	PL.60988	A	#4 ACSR	7.42Y	123.7	0.00	1.31	6.54	5	47	14	96	0.00	0.0	2.760	0.006	0	0	0	6
PD.6496	PL.43186	A	40QA	7.42Y	123.7	0.00	1.31	6.54	16	47	14	96	0.00	0.0	2.760	0.006	0	0	0	6
PL.54104	PD.6496	A	#4 ACSR	7.42Y	123.7	0.02	1.33	6.54	5	47	14	96	0.01	0.0	2.816	0.056	1	0	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: West London 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.54103	PL.54104	A	6 A (CWC)	7.42Y	123.7	0.01	1.34	3.80	3	27	8	96	0.00	0.0	2.908	0.092	27	8	1	1
PL.54105	PL.54104	A	#4 ACSR	7.42Y	123.7	0.01	1.34	2.57	2	18	5	96	0.00	0.0	2.898	0.082	0	0	0	3
PL.64447	PL.54105	A	#4 ACSR	7.42Y	123.7	0.01	1.35	2.27	2	16	5	95	0.00	0.0	2.968	0.071	0	0	0	2
PL.64448	PL.64447	A	#4 ACSR	7.42Y	123.7	0.00	1.35	2.27	2	16	5	95	0.00	0.0	2.968	0.000	16	5	2	2
PL.54303	PL.54105	A	#4 ACSR	7.42Y	123.7	0.00	1.34	0.29	0	2	1	89	0.00	0.0	3.016	0.118	2	1	1	1
PL.60989	PL.60761	C	#4 ACSR	7.43Y	123.8	0.00	1.22	8.82	7	63	19	96	0.00	0.0	2.657	0.006	0	0	0	6
PD.6781	PL.60989	C	40QA	7.43Y	123.8	0.00	1.22	8.82	22	63	19	96	0.00	0.0	2.657	0.006	0	0	0	6
PL.43180	PD.6781	C	#4 ACSR	7.43Y	123.8	0.00	1.22	8.82	7	63	19	96	0.00	0.0	2.667	0.010	13	4	1	6
PL.43184	PL.43180	C	#4 ACSR	7.43Y	123.8	0.01	1.23	7.01	5	50	15	96	0.00	0.0	2.717	0.050	13	4	1	5
PL.43185	PL.43184	C	#4 ACSR	7.43Y	123.8	0.01	1.24	5.17	4	37	11	96	0.00	0.0	2.772	0.056	10	3	1	4
PL.43181	PL.43185	C	#4 ACSR	7.42Y	123.7	0.01	1.25	3.74	3	27	8	96	0.00	0.0	2.832	0.060	10	3	1	3
PL.43182	PL.43181	C	#4 ACSR	7.42Y	123.7	0.00	1.26	2.31	2	16	5	95	0.00	0.0	2.893	0.061	7	2	1	2
PL.43183	PL.43182	C	#4 ACSR	7.42Y	123.7	0.00	1.26	1.34	1	10	3	96	0.00	0.0	2.949	0.056	10	3	1	1
PL.64839	PL.64837	C	#1/0 ACSR	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	2.512	0.002	0	0	0	0
PD.9564	PL.64839	C	20T	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	2.512	0.002	0	0	0	0
PL.64840	PD.9564	C	#1/0 ACSR	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	2.536	0.024	0	0	0	0
PL.63260	PL.64837	C	#1/0 ACSR	7.44Y	123.9	0.00	1.07	1.14	0	8	2	97	0.00	0.0	2.550	0.040	8	2	2	2
PL.43036	PL.43035	C	6 A (CWC)	7.45Y	124.1	0.00	0.90	5.23	4	37	11	96	0.00	0.0	2.285	0.006	0	0	0	4
PD.6780	PL.43036	C	75QA	7.45Y	124.1	0.00	0.90	5.23	7	37	11	96	0.00	0.0	2.285	0.006	0	0	0	4
PL.43037	PD.6780	C	6 A (CWC)	7.45Y	124.1	0.01	0.91	5.23	4	37	11	96	0.00	0.0	2.333	0.048	10	3	1	4
PL.54089	PL.43037	C	6 A (CWC)	7.44Y	124.1	0.02	0.93	3.83	3	27	8	96	0.00	0.0	2.448	0.115	0	0	0	3
PL.54090	PL.54089	C	1/0 AL URD	7.44Y	124.1	0.00	0.93	2.38	1	17	5	96	0.00	0.0	2.469	0.021	17	5	1	1
PL.54088	PL.54089	C	6 A (CWC)	7.44Y	124.1	0.00	0.93	1.45	1	10	3	96	0.00	0.0	2.448	0.000	10	3	2	2
PL.54109	PL.54390	C	#4 ACSR	7.31Y	121.8	0.00	3.18	2.28	2	16	5	95	0.00	0.0	2.170	0.006	0	0	0	2
PD.8123	PL.54109	C	75QA	7.31Y	121.8	0.00	3.18	2.28	3	16	5	95	0.00	0.0	2.170	0.006	0	0	0	2
PL.54110	PD.8123	C	#4 ACSR	7.31Y	121.8	0.00	3.18	2.28	2	16	5	95	0.00	0.0	2.196	0.027	0	0	0	2
PL.54112	PL.54110	C	#1/0 ACSR	7.31Y	121.8	0.00	3.18	1.23	1	9	3	95	0.00	0.0	2.230	0.034	9	3	1	1
PL.54111	PL.54110	C	#4 ACSR	7.31Y	121.8	0.00	3.18	1.06	1	7	2	96	0.00	0.0	2.226	0.029	7	2	1	1
PL.64396	PL.54390	C	#1/0 ACSR	7.31Y	121.8	0.00	3.18	2.32	1	16	5	95	0.00	0.0	2.168	0.003	0	0	0	1
PD.9535	PL.64396	C	20T	7.31Y	121.8	0.00	3.18	2.32	0	16	5	95	0.00	0.0	2.168	0.003	0	0	0	1
PL.64397	PD.9535	C	#1/0 ACSR	7.31Y	121.8	0.00	3.18	2.32	1	16	5	95	0.00	0.0	2.190	0.022	16	5	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: West London 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.54388	PL.54387	A	#4 ACSR	7.31Y	121.9	0.00	3.13	6.40	5	45	13	96	0.00	0.0	2.072	0.006	0	0	0	4
PD.6495	PL.54388	A	75QA	7.31Y	121.9	0.00	3.13	6.40	9	45	13	96	0.00	0.0	2.072	0.006	0	0	0	4
PL.43031	PD.6495	A	#4 ACSR	7.31Y	121.8	0.03	3.16	6.40	5	45	13	96	0.01	0.0	2.163	0.091	0	0	0	4
PL.41308	PL.43031	A	#4 ACSR	7.31Y	121.8	0.00	3.16	0.55	0	4	1	97	0.00	0.0	2.198	0.034	4	1	1	1
PL.43032	PL.43031	A	#4 ACSR	7.31Y	121.8	0.02	3.18	5.86	5	41	12	96	0.01	0.0	2.253	0.089	0	0	0	3
PL.54327	PL.43032	A	#4 ACSR	7.31Y	121.8	0.01	3.19	4.18	3	29	9	96	0.00	0.0	2.313	0.061	19	6	1	2
PL.54328	PL.54327	A	1/0 AL URD	7.31Y	121.8	0.00	3.19	1.43	1	10	3	96	0.00	0.0	2.366	0.052	10	3	1	1
PL.54326	PL.43032	A	#2 ACSR	7.31Y	121.8	0.00	3.18	1.67	1	12	3	97	0.00	0.0	2.309	0.056	12	3	1	1
PL.54389	PL.54387	B	#4 ACSR	7.31Y	121.9	0.00	3.13	1.12	1	8	2	97	0.00	0.0	2.072	0.006	0	0	0	3
PD.6494	PL.54389	B	75QA	7.31Y	121.9	0.00	3.13	1.12	1	8	2	97	0.00	0.0	2.072	0.006	0	0	0	3
PL.54391	PD.6494	B	#4 ACSR	7.31Y	121.9	0.00	3.13	1.12	1	8	2	97	0.00	0.0	2.090	0.018	6	2	1	3
PL.54392	PL.54391	B	#4 ACSR	7.31Y	121.9	0.00	3.13	0.33	0	2	1	89	0.00	0.0	2.142	0.052	0	0	1	2
PL.54393	PL.54392	B	#4 ACSR	7.31Y	121.9	0.00	3.13	0.33	0	2	1	89	0.00	0.0	2.161	0.019	2	1	1	1
PL.43714	PL.43712	C	6 A (CWC)	7.32Y	122.0	0.00	2.96	1.19	1	8	2	97	0.00	0.0	1.834	0.006	0	0	0	1
PD.6441	PL.43714	C	75QA	7.32Y	122.0	0.00	2.96	1.19	2	8	2	97	0.00	0.0	1.834	0.006	0	0	0	1
PL.43715	PD.6441	C	6 A (CWC)	7.32Y	122.0	0.00	2.96	1.19	1	8	2	97	0.00	0.0	1.910	0.076	8	2	1	1
PL.43716	PL.43712	B	6 A (CWC)	7.32Y	122.0	0.00	2.96	0.50	0	4	1	97	0.00	0.0	1.834	0.006	0	0	0	2
PD.6442	PL.43716	B	75QA	7.32Y	122.0	0.00	2.96	0.50	1	4	1	97	0.00	0.0	1.834	0.006	0	0	0	2
PL.43717	PD.6442	B	6 A (CWC)	7.32Y	122.0	0.00	2.96	0.50	0	4	1	97	0.00	0.0	1.862	0.028	3	1	1	2
PL.43718	PL.43717	B	6 A (CWC)	7.32Y	122.0	0.00	2.96	0.14	0	1	0	100	0.00	0.0	1.927	0.066	1	0	1	1
PL.41040	PL.41295	ABC	#1/0 ACSR	7.33Y	122.1	0.02	2.86	15.21	7	321	95	96	0.04	0.0	1.787	0.063	0	0	0	38
PL.43651	PL.41040	ABC	#1/0 ACSR	7.33Y	122.1	0.00	2.86	15.21	7	321	95	96	0.00	0.0	1.792	0.006	0	0	0	38
PD.6797	PL.43651	ABC	70L	7.33Y	122.1	0.00	2.86	15.21	22	321	95	96	0.00	0.0	1.792	0.006	0	0	0	38
PL.43652	PD.6797	ABC	#1/0 ACSR	7.33Y	122.1	0.03	2.90	15.21	7	321	95	96	0.07	0.0	1.907	0.115	0	0	0	38
PL.54091	PL.43652	ABC	#1/0 ACSR	7.32Y	122.1	0.02	2.92	15.21	7	321	95	96	0.05	0.0	1.989	0.082	4	1	1	38
PL.63256	PL.54091	ABC	#1/0 ACSR	7.32Y	122.1	0.03	2.95	15.04	7	317	94	96	0.07	0.0	2.101	0.112	0	0	0	37
PL.63257	PL.63256	ABC	#1/0 ACSR	7.32Y	122.0	0.02	2.97	14.68	6	309	92	96	0.05	0.0	2.194	0.093	0	0	0	36
PL.57360	PL.63257	C	6 A (CWC)	7.32Y	122.0	0.00	2.97	20.24	14	142	42	96	0.00	0.0	2.195	0.001	0	0	0	17
PD.8351	PL.57360	C	75QA	7.32Y	122.0	0.00	2.97	20.24	27	142	42	96	0.00	0.0	2.195	0.001	0	0	0	17
PL.57362	PD.8351	C	6 A (CWC)	7.32Y	122.0	0.06	3.03	17.04	12	120	35	96	0.05	0.0	2.273	0.079	20	6	2	15
PL.57363	PL.57362	C	6 A (CWC)	7.32Y	121.9	0.05	3.08	14.22	10	100	30	96	0.04	0.0	2.355	0.082	10	3	1	13

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Balanced Voltage Drop Report  
Source: West London 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.43703	PL.57363	C	6 A (CWC)	7.31Y	121.9	0.02	3.11	12.74	9	89	26	96	0.02	0.0	2.400	0.044	15	4	2	12
PL.63276	PL.43703	C	6 A (CWC)	7.31Y	121.9	0.03	3.14	10.64	8	75	22	96	0.02	0.0	2.467	0.068	0	0	0	10
PL.63279	PL.63276	C	6 A (CWC)	7.31Y	121.9	0.00	3.14	10.64	8	75	22	96	0.00	0.0	2.468	0.001	0	0	0	10
PL.63280	PL.63279	C	#1/0 ACSR	7.31Y	121.9	0.00	3.14	7.51	3	53	16	96	0.00	0.0	2.492	0.024	14	4	1	8
PL.63281	PL.63280	C	#1/0 ACSR	7.31Y	121.9	0.00	3.15	5.48	2	38	11	96	0.00	0.0	2.539	0.047	18	5	2	7
PL.63278	PL.63281	C	6 A (CWC)	7.31Y	121.8	0.00	3.15	2.85	2	20	6	96	0.00	0.0	2.574	0.036	4	1	2	5
PL.43705	PL.63278	C	6 A (CWC)	7.31Y	121.8	0.00	3.15	2.28	2	16	5	95	0.00	0.0	2.604	0.030	9	3	2	3
PL.43711	PL.43705	C	6 A (CWC)	7.31Y	121.8	0.00	3.16	0.99	1	7	2	96	0.00	0.0	2.722	0.118	7	2	1	1
PL.63277	PL.63279	C	6 A (CWC)	7.31Y	121.9	0.00	3.14	3.12	2	22	6	96	0.00	0.0	2.482	0.014	15	4	1	2
PL.43704	PL.63277	C	6 A (CWC)	7.31Y	121.9	0.00	3.14	1.01	1	7	2	96	0.00	0.0	2.518	0.036	7	2	1	1
PL.57361	PD.8351	C	6 A (CWC)	7.32Y	122.0	0.00	2.98	3.20	2	22	7	95	0.00	0.0	2.233	0.038	22	7	2	2
PL.57358	PL.63257	B	6 A (CWC)	7.32Y	122.0	0.00	2.98	18.79	13	132	39	96	0.00	0.0	2.199	0.005	0	0	0	16
PD.8350	PL.57358	B	50QA	7.32Y	122.0	0.00	2.98	18.79	38	132	39	96	0.00	0.0	2.199	0.005	0	0	0	16
PL.57359	PD.8350	B	6 A (CWC)	7.32Y	121.9	0.09	3.07	18.79	13	132	39	96	0.08	0.1	2.302	0.103	7	2	1	16
PL.41722	PL.57359	B	6 A (CWC)	7.31Y	121.9	0.05	3.12	15.62	11	110	32	96	0.04	0.0	2.381	0.079	15	5	1	13
PL.41754	PL.41722	B	#4 ACSR	7.31Y	121.9	0.01	3.12	1.74	1	12	4	95	0.00	0.0	2.556	0.175	12	4	1	1
PL.41454	PL.41722	B	#4 ACSR	7.31Y	121.9	0.00	3.12	0.00	0	0	0	100	0.00	0.0	2.434	0.053	0	0	1	1
PL.41723	PL.41722	B	6 A (CWC)	7.31Y	121.8	0.04	3.16	11.68	8	82	24	96	0.02	0.0	2.457	0.076	6	2	1	10
PL.41019	PL.41723	B	6 A (CWC)	7.31Y	121.8	0.02	3.18	9.49	7	67	20	96	0.01	0.0	2.515	0.058	2	0	1	8
PL.43708	PL.41019	B	6 A (CWC)	7.31Y	121.8	0.01	3.19	4.39	3	31	9	96	0.00	0.0	2.581	0.066	10	3	1	4
PL.43709	PL.43708	B	6 A (CWC)	7.31Y	121.8	0.00	3.20	2.94	2	21	6	96	0.00	0.0	2.614	0.033	0	0	0	3
PL.43710	PL.43709	B	6 A (CWC)	7.31Y	121.8	0.00	3.20	1.75	1	12	4	95	0.00	0.0	2.712	0.098	12	4	2	2
PL.41376	PL.43709	B	#2 ACSR	7.31Y	121.8	0.00	3.20	1.20	1	8	2	97	0.00	0.0	2.650	0.036	8	2	1	1
PL.43706	PL.41019	B	#4 ACSR	7.31Y	121.8	0.00	3.19	4.86	4	34	10	96	0.00	0.0	2.541	0.026	16	5	1	3
PL.43707	PL.43706	B	#4 ACSR	7.31Y	121.8	0.00	3.19	2.57	2	18	5	96	0.00	0.0	2.586	0.045	18	5	2	2
PL.41398	PL.41723	B	#4 ACSR	7.31Y	121.8	0.00	3.16	1.39	1	10	3	96	0.00	0.0	2.496	0.039	10	3	1	1
PL.41399	PL.41398	B	#4 ACSR	7.31Y	121.8	0.00	3.16	0.00	0	0	0	100	0.00	0.0	2.538	0.043	0	0	0	0
PL.41018	PL.41399	B	#4 ACSR	7.31Y	121.8	0.00	3.16	0.00	0	0	0	100	0.00	0.0	2.688	0.149	0	0	0	0
PL.41720	PL.57359	B	#4 ACSR	7.32Y	121.9	0.00	3.07	2.22	2	16	5	95	0.00	0.0	2.308	0.006	0	0	0	2
PD.6503	PL.41720	B	75QA	7.32Y	121.9	0.00	3.07	2.22	3	16	5	95	0.00	0.0	2.308	0.006	0	0	0	2
PL.41721	PD.6503	B	#4 ACSR	7.32Y	121.9	0.00	3.07	2.22	2	16	5	95	0.00	0.0	2.367	0.059	16	5	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: West London 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.43653	PL.63257	A	6 A (CWC)	7.32Y	122.0	0.00	2.98	5.00	4	35	10	96	0.00	0.0	2.199	0.006	0	0	0	3
PD.6743	PL.43653	A	75QA	7.32Y	122.0	0.00	2.98	5.00	7	35	10	96	0.00	0.0	2.199	0.006	0	0	0	3
PL.43699	PD.6743	A	6 A (CWC)	7.32Y	122.0	0.02	2.99	5.00	4	35	10	96	0.00	0.0	2.282	0.083	10	3	1	3
PL.43700	PL.43699	A	6 A (CWC)	7.32Y	122.0	0.01	3.00	3.64	3	26	8	96	0.00	0.0	2.339	0.057	0	0	0	2
PL.43701	PL.43700	A	6 A (CWC)	7.32Y	122.0	0.03	3.03	3.64	3	26	8	96	0.00	0.0	2.563	0.224	12	4	1	2
PL.43702	PL.43701	A	6 A (CWC)	7.32Y	122.0	0.00	3.03	1.88	1	13	4	96	0.00	0.0	2.625	0.062	13	4	1	1
PL.63258	PL.63256	C	#1/0 ACSR	7.32Y	122.1	0.00	2.95	1.08	0	8	2	97	0.00	0.0	2.104	0.003	0	0	0	1
PD.9459	PL.63258	C	25T	7.32Y	122.1	0.00	2.95	1.08	0	8	2	97	0.00	0.0	2.104	0.003	0	0	0	1
PL.63259	PD.9459	C	#1/0 ACSR	7.32Y	122.1	0.00	2.95	1.08	0	8	2	97	0.00	0.0	2.166	0.062	8	2	1	1
CP.95	PL.52794	ABC	Cap (300)	7.34Y	122.3	0.00	2.66	0.00	0	0	0	100	0.00	0.0	1.568	0.062	0	0	0	0
PL.41567	PL.42248	A	#4 ACSR	7.37Y	122.8	0.02	2.18	57.57	44	407	121	96	0.08	0.0	1.207	0.010	0	0	0	29
PL.41795	PL.41567	A	1/0 AL URD	7.37Y	122.8	0.01	2.19	57.57	34	407	120	96	0.03	0.0	1.213	0.006	0	0	0	29
PD.6558	PL.41795	A	100L	7.37Y	122.8	0.00	2.19	57.57	58	407	120	96	0.00	0.0	1.213	0.006	0	0	0	29
PL.41796	PD.6558	A	1/0 AL URD	7.37Y	122.8	0.04	2.23	57.57	34	407	120	96	0.13	0.0	1.235	0.022	20	6	2	29
PL.41797	PL.41796	A	1/0 AL URD	7.36Y	122.7	0.08	2.31	54.70	32	386	114	96	0.24	0.1	1.284	0.049	33	10	2	27
PL.42257	PL.41797	A	1/0 AL URD	7.36Y	122.6	0.10	2.41	50.04	29	353	105	96	0.28	0.1	1.353	0.068	34	10	2	25
PL.43647	PL.42257	A	1/0 AL URD	7.35Y	122.5	0.07	2.48	45.28	27	319	95	96	0.18	0.1	1.404	0.052	10	3	1	23
PL.43648	PL.43647	A	1/0 AL URD	7.35Y	122.4	0.09	2.57	43.89	26	309	92	96	0.21	0.1	1.468	0.064	6	2	1	22
PL.42258	PL.43648	A	1/0 AL URD	7.34Y	122.4	0.07	2.64	42.98	25	303	90	96	0.17	0.1	1.523	0.055	26	8	2	21
PL.43440	PL.42258	A	1/0 AL URD	7.34Y	122.3	0.09	2.73	39.26	23	276	82	96	0.21	0.1	1.602	0.079	15	5	1	19
PL.43441	PL.43440	A	1/0 AL URD	7.33Y	122.2	0.06	2.79	37.07	22	261	77	96	0.11	0.0	1.655	0.053	44	13	3	18
PL.43442	PL.43441	A	1/0 AL URD	7.33Y	122.2	0.05	2.84	30.81	18	217	64	96	0.09	0.0	1.710	0.055	19	6	1	15
PL.43629	PL.43442	A	1/0 AL URD	7.33Y	122.1	0.05	2.89	28.09	17	197	58	96	0.08	0.0	1.770	0.060	21	6	2	14
PL.43443	PL.43629	A	1/0 AL URD	7.32Y	122.1	0.05	2.94	25.06	15	176	52	96	0.06	0.0	1.832	0.062	24	7	2	12
PL.43444	PL.43443	A	1/0 AL URD	7.32Y	122.0	0.04	2.98	21.70	13	152	45	96	0.04	0.0	1.898	0.066	40	12	2	10
PL.43445	PL.43444	A	1/0 AL URD	7.32Y	122.0	0.05	3.02	16.02	9	112	33	96	0.04	0.0	1.997	0.100	18	5	2	8
PL.43447	PL.43445	A	1/0 AL URD	7.32Y	122.0	0.03	3.05	13.49	8	95	28	96	0.02	0.0	2.088	0.091	62	18	3	6
PL.43448	PL.43447	A	1/0 AL URD	7.32Y	121.9	0.01	3.05	4.69	3	33	10	96	0.00	0.0	2.128	0.039	7	2	1	3
PL.43446	PL.43448	A	1/0 AL URD	7.32Y	121.9	0.01	3.06	3.68	2	26	8	96	0.00	0.0	2.240	0.112	26	8	2	2
PL.43449	PL.43446	A	1/0 AL URD	7.32Y	121.9	0.00	3.06	0.00	0	0	0	100	0.00	0.0	2.335	0.095	0	0	0	0
PL.41718	PL.42247	A	#1/0 ACSR	7.38Y	123.0	0.00	2.05	0.66	0	5	1	98	0.00	0.0	1.149	0.016	5	1	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: West London 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.42260	PL.42247	ABC	#1/0 ACSR	7.38Y	123.0	0.00	2.05	1.25	1	27	8	96	0.00	0.0	1.139	0.006	0	0	0	4
PL.42261	PL.42260	ABC	#1/0 ACSR	7.38Y	123.0	0.00	2.05	1.25	1	27	8	96	0.00	0.0	1.161	0.021	27	8	4	4
PL.50290	PL.41318	ABC	#3/0 ACSR	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	0.951	0.001	0	0	0	0
PD.5885-B	PL.50290	ABC	Open	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	0.951	0.001	0	0	0	0
PL.43625	PL.41888	C	1/0 AL URD	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	0.725	0.002	0	0	0	0
PD.6699	PL.43625	C	75QA	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	0.725	0.002	0	0	0	0
PL.43626	PD.6699	C	1/0 AL URD	7.42Y	123.7	0.00	1.33	0.00	0	0	0	100	0.00	0.0	0.852	0.127	0	0	0	0
PL.43624	PL.41888	C	1/0 AL URD	7.42Y	123.7	0.00	1.33	1.57	1	11	3	96	0.00	0.0	0.725	0.002	0	0	0	1
PD.6698	PL.43624	C	75QA	7.42Y	123.7	0.00	1.33	1.57	2	11	3	96	0.00	0.0	0.725	0.002	0	0	0	1
PL.43627	PD.6698	C	1/0 AL URD	7.42Y	123.7	0.00	1.34	1.57	1	11	3	96	0.00	0.0	0.909	0.185	11	3	1	1
PL.43628	PL.43627	C	1/0 AL URD	7.42Y	123.7	0.00	1.34	0.00	0	0	0	100	0.00	0.0	0.941	0.032	0	0	0	0
PL.42066	PL.43269	C	1/0 AL URD	7.43Y	123.8	0.00	1.21	0.71	0	5	1	98	0.00	0.0	0.697	0.041	5	1	1	1
PL.42073	PL.42069	ABC	6 A (CWC)	7.44Y	124.1	0.00	0.94	2.63	2	53	26	90	0.00	0.0	0.508	0.006	0	0	0	2
PD.6697	PL.42073	ABC	25QA	7.44Y	124.1	0.00	0.94	2.63	11	53	26	90	0.00	0.0	0.508	0.006	0	0	0	2
PL.66197	PD.6697	ABC	336 MCM AC	7.44Y	124.1	0.00	0.94	2.63	1	53	26	90	0.00	0.0	0.548	0.040	0	0	0	2
PL.72944	PL.66197	ABC	1/0 AL URD	7.44Y	124.1	0.00	0.94	2.63	2	53	26	90	0.00	0.0	0.555	0.006	53	26	1	2
PL.66199	PL.72944	ABC	1/0 AL URD	7.44Y	124.1	0.00	0.94	0.00	0	0	0	100	0.00	0.0	0.590	0.035	0	0	0	1
PL.43266	PL.66199	ABC	1/0 AL URD	7.44Y	124.1	0.00	0.94	0.00	0	0	0	100	0.00	0.0	0.675	0.086	0	0	0	1
PL.43267	PL.43266	ABC	1/0 AL URD	7.44Y	124.1	0.00	0.94	0.00	0	0	0	100	0.00	0.0	0.696	0.021	0	0	0	1
PL.41821	PL.43267	ABC	#1/0 ACSR	7.44Y	124.1	0.00	0.94	0.00	0	0	0	100	0.00	0.0	0.772	0.075	0	0	1	1
PL.66198	PL.66197	ABC	336 MCM AC	7.44Y	124.1	0.00	0.94	0.00	0	0	0	100	0.00	0.0	0.549	0.000	0	0	0	0
PL.42070	PL.42068	C	6 A (CWC)	7.45Y	124.1	0.00	0.86	0.90	1	6	2	95	0.00	0.0	0.466	0.006	0	0	0	1
PD.6418	PL.42070	C	75QA	7.45Y	124.1	0.00	0.86	0.90	1	6	2	95	0.00	0.0	0.466	0.006	0	0	0	1
PL.42071	PD.6418	C	6 A (CWC)	7.45Y	124.1	0.00	0.86	0.90	1	6	2	95	0.00	0.0	0.532	0.066	0	0	0	1
PL.42072	PL.42071	C	6 A (CWC)	7.45Y	124.1	0.00	0.86	0.90	1	6	2	95	0.00	0.0	0.585	0.053	6	2	1	1
PL.41636	PL.63310	ABC	#1/0 ACSR	7.49Y	124.8	0.00	0.23	1.00	0	20	10	89	0.00	0.0	0.153	0.029	20	10	1	1
PL.53076	West London 2	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	183.95	35	3914	1344	95	0.04	0.0	0.001	0.001	0	0	0	370
PL.53082	PL.53076	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	183.95	35	3914	1344	95	0.08	0.0	0.004	0.003	0	0	0	370

----- Feeder No. 3 (Sublimity F3) Beginning with Device PD.8083 -----

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: West London 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.8083	PL.53082	ABC	480VWE	7.50Y	125.0	0.00	0.01	183.95	0	3914	1344	95	0.00	0.0	0.004	0.003	0	0	0	370
PL.41286	PD.8083	ABC	556 MCM AC	7.49Y	124.9	0.13	0.14	183.95	26	3914	1344	95	0.58	0.0	0.190	0.186	0	0	0	370
PL.43070	PL.41286	A	1/0 AL URD	7.49Y	124.9	0.00	0.14	31.94	19	229	68	96	0.00	0.0	0.192	0.002	0	0	0	19
PD.6769	PL.43070	A	75QA	7.49Y	124.9	0.00	0.14	31.94	43	229	68	96	0.00	0.0	0.192	0.002	0	0	0	19
PL.43071	PD.6769	A	1/0 AL URD	7.49Y	124.8	0.02	0.16	31.94	19	229	68	96	0.04	0.0	0.216	0.024	11	3	1	19
PL.43072	PL.43071	A	1/0 AL URD	7.49Y	124.8	0.01	0.17	30.39	18	218	65	96	0.02	0.0	0.229	0.012	11	3	1	18
PL.43073	PL.43072	A	1/0 AL URD	7.49Y	124.8	0.02	0.19	28.91	17	208	61	96	0.03	0.0	0.246	0.018	10	3	1	17
PL.43468	PL.43073	A	1/0 AL URD	7.49Y	124.8	0.03	0.22	27.50	16	197	58	96	0.04	0.0	0.280	0.033	24	7	2	16
PL.43469	PL.43468	A	1/0 AL URD	7.49Y	124.8	0.01	0.23	24.10	14	173	51	96	0.02	0.0	0.296	0.016	0	0	0	14
PL.43470	PL.43469	A	1/0 AL URD	7.49Y	124.8	0.00	0.23	21.63	13	155	46	96	0.00	0.0	0.299	0.003	21	6	1	13
PL.43471	PL.43470	A	1/0 AL URD	7.48Y	124.7	0.05	0.28	18.71	11	134	40	96	0.05	0.0	0.383	0.084	0	0	0	12
PL.43472	PL.43471	A	1/0 AL URD	7.48Y	124.7	0.03	0.31	18.41	11	132	39	96	0.03	0.0	0.435	0.052	0	0	0	11
PL.43482	PL.43472	A	1/0 AL URD	7.48Y	124.7	0.01	0.32	10.44	6	75	22	96	0.01	0.0	0.484	0.049	24	7	2	5
PL.43483	PL.43482	A	1/0 AL URD	7.48Y	124.7	0.00	0.33	7.10	4	51	15	96	0.00	0.0	0.508	0.024	12	3	1	3
PL.43484	PL.43483	A	1/0 AL URD	7.48Y	124.7	0.00	0.33	5.48	3	39	12	96	0.00	0.0	0.528	0.020	0	0	0	2
PL.43519	PL.43484	A	1/0 AL URD	7.48Y	124.7	0.00	0.33	0.00	0	0	0	100	0.00	0.0	0.534	0.006	0	0	0	0
PL.42241	PL.43484	A	1/0 AL URD	7.48Y	124.7	0.00	0.33	3.30	2	24	7	96	0.00	0.0	0.548	0.019	24	7	1	1
PL.42243	PL.43484	A	1/0 AL URD	7.48Y	124.7	0.00	0.33	2.18	1	16	5	95	0.00	0.0	0.578	0.049	16	5	1	1
PL.43473	PL.43472	A	1/0 AL URD	7.48Y	124.7	0.01	0.32	7.97	5	57	17	96	0.00	0.0	0.486	0.051	17	5	1	6
PL.43474	PL.43473	A	1/0 AL URD	7.48Y	124.7	0.01	0.33	5.54	3	40	12	96	0.00	0.0	0.530	0.044	7	2	1	5
PL.43475	PL.43474	A	1/0 AL URD	7.48Y	124.7	0.00	0.33	4.62	3	33	10	96	0.00	0.0	0.560	0.030	22	7	2	4
PL.43476	PL.43475	A	1/0 AL URD	7.48Y	124.7	0.00	0.33	1.55	1	11	3	96	0.00	0.0	0.593	0.034	9	3	1	2
PL.43477	PL.43476	A	1/0 AL URD	7.48Y	124.7	0.00	0.33	0.34	0	2	1	89	0.00	0.0	0.686	0.093	2	1	1	1
PL.43478	PL.43477	A	1/0 AL URD	7.48Y	124.7	0.00	0.33	0.00	0	0	0	100	0.00	0.0	0.733	0.047	0	0	0	0
PL.42244	PL.43471	A	1/0 AL URD	7.48Y	124.7	0.00	0.28	0.30	0	2	1	89	0.00	0.0	0.413	0.030	2	1	1	1
PL.42242	PL.43469	A	1/0 AL URD	7.49Y	124.8	0.00	0.23	2.46	1	18	5	96	0.00	0.0	0.335	0.038	18	5	1	1
PL.41717	PL.41286	ABC	556 MCM AC	7.49Y	124.8	0.06	0.20	173.31	24	3684	1264	95	0.25	0.0	0.280	0.090	0	0	0	351
PL.64103	PL.41717	ABC	336 MCM AC	7.49Y	124.8	0.04	0.24	157.97	30	3353	1162	94	0.69	0.0	0.313	0.033	36	11	1	323
PL.64104	PL.64103	ABC	336 MCM AC	7.48Y	124.7	0.05	0.29	156.29	30	3316	1149	94	0.87	0.0	0.355	0.042	0	0	0	322
PL.64106	PL.64104	ABC	#1/0 ACSR	7.48Y	124.7	0.00	0.29	2.37	1	48	23	90	0.00	0.0	0.361	0.006	0	0	0	1
PD.6135	PL.64106	ABC	20QA	7.48Y	124.7	0.00	0.29	2.37	12	48	23	90	0.00	0.0	0.361	0.006	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: West London 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.42790	PD.6135	ABC	#1/0 ACSR	7.48Y	124.7	0.00	0.29	2.37	1	48	23	90	0.00	0.0	0.375	0.014	0	0	0	1
PL.42791	PL.42790	ABC	1/0 AL URD	7.48Y	124.7	0.00	0.29	2.37	1	48	23	90	0.00	0.0	0.442	0.067	0	0	0	1
PL.42792	PL.42791	ABC	1/0 AL URD	7.48Y	124.7	0.00	0.29	2.37	1	48	23	90	0.00	0.0	0.511	0.069	48	23	1	1
PL.41579	PL.42791	ABC	1/0 AL URD	7.48Y	124.7	0.00	0.29	0.00	0	0	0	100	0.00	0.0	0.458	0.016	0	0	0	0
PL.42245	PL.42791	ABC	1/0 AL URD	7.48Y	124.7	0.00	0.29	0.00	0	0	0	100	0.00	0.0	0.445	0.003	0	0	0	0
PL.64105	PL.64104	ABC	336 MCM AC	7.48Y	124.7	0.04	0.33	153.94	30	3268	1124	95	0.65	0.0	0.388	0.033	0	0	0	321
PL.52280	PL.64105	ABC	336 MCM AC	7.47Y	124.6	0.10	0.43	153.94	30	3267	1123	95	1.60	0.0	0.468	0.080	0	0	0	321
PL.52281	PL.52280	ABC	336 MCM AC	7.47Y	124.5	0.05	0.47	153.94	30	3266	1119	95	0.76	0.0	0.507	0.038	1	0	1	321
PL.42793	PL.52281	C	#1/0 ACSR	7.47Y	124.5	0.00	0.48	0.79	0	6	2	95	0.00	0.0	0.512	0.006	0	0	0	1
PD.6504	PL.42793	C	40QA	7.47Y	124.5	0.00	0.48	0.79	2	6	2	95	0.00	0.0	0.512	0.006	0	0	0	1
PL.42794	PD.6504	C	#1/0 ACSR	7.47Y	124.5	0.00	0.48	0.79	0	6	2	95	0.00	0.0	0.552	0.040	6	2	1	1
PL.52282	PL.52281	ABC	336 MCM AC	7.47Y	124.5	0.03	0.51	153.63	30	3258	1115	95	0.53	0.0	0.533	0.027	0	0	0	319
PL.52284	PL.52282	ABC	336 MCM AC	7.47Y	124.4	0.07	0.58	153.63	30	3258	1114	95	1.19	0.0	0.593	0.060	0	0	0	319
PL.52285	PL.52284	ABC	336 MCM AC	7.46Y	124.4	0.07	0.65	135.27	26	2862	994	94	0.95	0.0	0.655	0.062	0	0	0	286
PL.52287	PL.52285	A	1/0 AL URD	7.46Y	124.4	0.00	0.65	9.35	6	67	20	96	0.00	0.0	0.660	0.006	0	0	0	13
PD.6564	PL.52287	A	75QA	7.46Y	124.4	0.00	0.65	9.35	12	67	20	96	0.00	0.0	0.660	0.006	0	0	0	13
PL.42830	PD.6564	A	1/0 AL URD	7.46Y	124.3	0.01	0.65	9.35	6	67	20	96	0.00	0.0	0.681	0.020	5	2	3	13
PL.42831	PL.42830	A	1/0 AL URD	7.46Y	124.3	0.01	0.67	8.59	5	61	18	96	0.01	0.0	0.734	0.053	3	1	1	10
PL.42832	PL.42831	A	1/0 AL URD	7.46Y	124.3	0.01	0.68	8.21	5	59	17	96	0.00	0.0	0.793	0.059	30	9	3	9
PL.43527	PL.42832	A	1/0 AL URD	7.46Y	124.3	0.00	0.68	3.99	2	29	8	96	0.00	0.0	0.812	0.020	8	2	2	6
PL.43528	PL.43527	A	1/0 AL URD	7.46Y	124.3	0.00	0.68	2.85	2	20	6	96	0.00	0.0	0.850	0.038	20	6	4	4
PL.43529	PL.43528	A	1/0 AL URD	7.46Y	124.3	0.00	0.68	0.00	0	0	0	100	0.00	0.0	0.891	0.040	0	0	0	0
PL.52288	PL.52285	ABC	336 MCM AC	7.46Y	124.3	0.03	0.68	132.02	25	2791	971	94	0.39	0.0	0.681	0.026	7	2	2	269
PL.52289	PL.52288	ABC	336 MCM AC	7.45Y	124.2	0.09	0.76	131.68	25	2783	968	94	1.21	0.0	0.764	0.083	14	4	1	267
PL.61121	PL.52289	A	#1/0 ACSR	7.45Y	124.2	0.01	0.77	10.56	5	76	22	96	0.00	0.0	0.790	0.026	0	0	0	2
PL.63328	PL.61121	A	1/0 AL URD	7.45Y	124.2	0.02	0.79	10.56	6	76	22	96	0.01	0.0	0.847	0.057	0	0	0	2
PL.63329	PL.63328	A	1/0 AL URD	7.45Y	124.2	0.01	0.80	10.56	6	75	22	96	0.00	0.0	0.901	0.053	75	22	2	2
PD.9413	PL.63329	A	100CodeSMo	7.45Y	124.2	0.00	0.80	0.00	0	0	0	100	0.00	0.0	0.901	0.053	0	0	0	0
PL.52291	PL.52289	A	#4 ACSR	7.45Y	124.2	0.00	0.77	11.43	9	82	24	96	0.00	0.0	0.770	0.006	0	0	0	11
PD.6741	PL.52291	A	75QA	7.45Y	124.2	0.00	0.77	11.43	15	82	24	96	0.00	0.0	0.770	0.006	0	0	0	11
PL.43222	PD.6741	A	#4 ACSR	7.45Y	124.2	0.01	0.78	11.43	9	82	24	96	0.01	0.0	0.791	0.021	3	1	1	11

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Balanced Voltage Drop Report  
Source: West London 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.43223	PL.43222	A	#4 ACSR	7.45Y	124.2	0.03	0.81	11.05	9	79	23	96	0.02	0.0	0.861	0.070	21	6	3	10
PL.43439	PL.43223	A	#4 ACSR	7.45Y	124.2	0.01	0.82	8.10	6	58	17	96	0.00	0.0	0.910	0.049	58	17	7	7
PL.52290	PL.52289	ABC	336 MCM AC	7.45Y	124.2	0.06	0.82	123.72	24	2611	914	94	0.72	0.0	0.821	0.056	0	0	0	253
PL.42228	PL.52290	A	1/0 AL URD	7.45Y	124.2	0.00	0.82	0.66	0	5	1	98	0.00	0.0	0.851	0.030	5	1	1	1
PL.43221	PL.52290	ABC	#3/0 ACSR	7.44Y	124.1	0.12	0.94	123.50	41	2606	911	94	1.86	0.1	0.893	0.072	0	0	0	252
PL.43212	PL.43221	A	1/0 AL URD	7.44Y	124.1	0.01	0.94	28.63	17	204	60	96	0.01	0.0	0.899	0.006	0	0	0	29
PD.6753	PL.43212	A	75QA	7.44Y	124.1	0.00	0.94	28.63	38	204	60	96	0.00	0.0	0.899	0.006	0	0	0	29
PL.43213	PD.6753	A	1/0 AL URD	7.44Y	124.0	0.04	0.99	28.63	17	204	60	96	0.07	0.0	0.948	0.050	10	3	1	29
PL.43530	PL.43213	A	1/0 AL URD	7.44Y	124.0	0.01	0.99	6.52	4	47	14	96	0.00	0.0	0.979	0.030	14	4	3	8
PL.43531	PL.43530	A	1/0 AL URD	7.44Y	124.0	0.00	1.00	4.60	3	33	10	96	0.00	0.0	1.014	0.035	17	5	3	5
PL.43211	PL.43531	A	1/0 AL URD	7.44Y	124.0	0.00	1.00	0.00	0	0	0	100	0.00	0.0	1.066	0.052	0	0	0	0
PL.42225	PL.43531	A	1/0 AL URD	7.44Y	124.0	0.00	1.00	2.24	1	16	5	95	0.00	0.0	1.058	0.044	16	5	2	2
PL.42226	PL.43213	A	1/0 AL URD	7.44Y	124.0	0.03	1.02	20.74	12	148	44	96	0.04	0.0	1.004	0.056	25	7	5	20
PL.41580	PL.42226	A	1/0 AL URD	7.44Y	124.0	0.03	1.05	17.27	10	123	36	96	0.03	0.0	1.057	0.053	11	3	3	15
PL.43217	PL.41580	A	1/0 AL URD	7.44Y	123.9	0.02	1.06	14.76	9	105	31	96	0.01	0.0	1.094	0.037	16	5	1	10
PL.43218	PL.43217	A	1/0 AL URD	7.44Y	123.9	0.01	1.07	12.56	7	90	26	96	0.01	0.0	1.116	0.022	0	0	0	9
PL.43219	PL.43218	A	1/0 AL URD	7.44Y	123.9	0.00	1.07	0.00	0	0	0	100	0.00	0.0	1.146	0.030	0	0	0	0
PL.63786	PL.43218	A	1/0 AL URD	7.43Y	123.9	0.01	1.08	12.56	7	90	26	96	0.01	0.0	1.154	0.038	22	7	2	9
PL.63785	PL.63786	A	1/0 AL URD	7.43Y	123.9	0.00	1.09	9.46	6	67	20	96	0.00	0.0	1.179	0.025	45	13	2	7
PL.63784	PL.63785	A	1/0 AL URD	7.43Y	123.9	0.00	1.09	3.17	2	23	7	96	0.00	0.0	1.228	0.050	12	4	2	5
PL.63783	PL.63784	A	1/0 AL URD	7.43Y	123.9	0.00	1.09	1.46	1	10	3	96	0.00	0.0	1.284	0.056	8	3	2	3
PL.63782	PL.63783	A	1/0 AL URD	7.43Y	123.9	0.00	1.09	0.27	0	2	1	89	0.00	0.0	1.314	0.030	2	1	1	1
PL.43220	PL.63782	A	1/0 AL URD	7.43Y	123.9	0.00	1.09	0.00	0	0	0	100	0.00	0.0	1.320	0.006	0	0	0	0
PL.42063	PL.41580	A	1/0 AL URD	7.44Y	124.0	0.00	1.05	1.02	1	7	2	96	0.00	0.0	1.112	0.055	7	2	2	2
PL.43214	PL.43221	ABC	336 MCM AC	7.44Y	124.0	0.04	0.98	112.91	22	2377	841	94	0.47	0.0	0.936	0.043	0	0	0	221
PL.43215	PL.43214	ABC	336 MCM AC	7.44Y	124.0	0.04	1.02	111.69	22	2350	833	94	0.48	0.0	0.982	0.046	0	0	0	218
PL.43216	PL.43215	ABC	336 MCM AC	7.42Y	123.7	0.29	1.31	111.52	21	2346	830	94	3.44	0.1	1.311	0.329	0	0	0	217
PL.58380	PL.43216	C	6 A (CWC)	7.42Y	123.7	0.00	1.32	21.27	15	151	45	96	0.00	0.0	1.314	0.003	0	0	0	15
PD.8613	PL.58380	C	80T	7.42Y	123.7	0.00	1.32	21.27	0	151	45	96	0.00	0.0	1.314	0.003	0	0	0	15
PL.58381	PD.8613	C	6 A (CWC)	7.42Y	123.6	0.06	1.38	21.27	15	151	45	96	0.07	0.0	1.378	0.064	0	0	0	15
PL.41505	PL.58381	C	6 A (CWC)	7.42Y	123.6	0.03	1.41	6.52	5	46	14	96	0.01	0.0	1.479	0.102	0	0	0	5

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Balanced Voltage Drop Report  
Source: West London 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.54537	PL.41505	C	#4 ACSR	7.42Y	123.6	0.01	1.42	2.68	2	19	6	95	0.00	0.0	1.582	0.102	19	6	1	1
PL.54962	PL.41505	C	6 A (CWC)	7.41Y	123.6	0.02	1.42	3.83	3	27	8	96	0.00	0.0	1.573	0.094	3	1	2	4
PL.63304	PL.54962	C	#1/0 ACSR	7.41Y	123.6	0.00	1.43	3.44	1	24	7	96	0.00	0.0	1.600	0.027	24	7	2	2
PL.54961	PL.58381	C	6 A (CWC)	7.41Y	123.5	0.08	1.46	13.66	10	97	29	96	0.06	0.1	1.500	0.122	0	0	0	9
PL.61125	PL.54961	C	6 A (CWC)	7.40Y	123.3	0.24	1.69	13.66	10	97	29	96	0.17	0.2	1.880	0.380	0	0	0	9
PL.61127	PL.61125	C	1/0 AL URD	7.40Y	123.3	0.02	1.71	7.05	4	50	15	96	0.01	0.0	1.950	0.071	0	0	0	4
PL.54958	PL.61127	C	1/0 AL URD	7.40Y	123.3	0.02	1.73	7.05	4	50	15	96	0.01	0.0	2.019	0.068	0	0	0	4
PL.54957	PL.54958	C	1/0 AL URD	7.40Y	123.3	0.01	1.73	7.05	4	50	15	96	0.00	0.0	2.094	0.075	50	15	4	4
PL.54956	PL.54957	C	1/0 AL URD	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	2.095	0.002	0	0	0	0
PL.61128	PL.61125	C	#1/0 ACSR	7.40Y	123.3	0.00	1.70	2.05	1	15	4	97	0.00	0.0	1.898	0.019	0	0	0	1
PL.54965	PL.61128	C	1/0 AL URD	7.40Y	123.3	0.00	1.70	2.05	1	15	4	97	0.00	0.0	1.975	0.077	15	4	1	1
PL.61126	PL.61125	C	6 A (CWC)	7.40Y	123.3	0.02	1.72	4.57	3	32	10	95	0.01	0.0	1.979	0.099	0	0	0	4
PL.54954	PL.61126	C	6 A (CWC)	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	2.153	0.174	0	0	0	2
PL.42921	PL.54954	C	6 A (CWC)	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	2.357	0.204	0	0	0	1
PL.42922	PL.42921	C	6 A (CWC)	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	2.434	0.077	0	0	0	1
PL.42923	PL.42922	C	6 A (CWC)	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	2.661	0.227	0	0	0	0
PL.41393	PL.42922	C	6 A (CWC)	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	2.591	0.157	0	0	1	1
PL.41444	PL.54954	C	6 A (CWC)	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	2.352	0.200	0	0	1	1
PL.54955	PL.61126	C	#1/0 ACSR	7.40Y	123.3	0.00	1.72	4.57	2	32	10	95	0.00	0.0	1.993	0.014	0	0	0	2
PL.54959	PL.54955	C	1/0 AL URD	7.40Y	123.3	0.00	1.72	4.57	3	32	10	95	0.00	0.0	2.002	0.009	32	10	2	2
PL.54960	PL.54959	C	1/0 AL URD	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	2.089	0.088	0	0	0	0
PL.41494	PL.58381	C	#4 ACSR	7.42Y	123.6	0.00	1.38	1.09	1	8	2	97	0.00	0.0	1.551	0.173	8	2	1	1
PL.43532	PL.43216	A	6 A (CWC)	7.42Y	123.7	0.00	1.31	6.37	5	45	13	96	0.00	0.0	1.317	0.006	0	0	0	5
PD.6565	PL.43532	A	25QA	7.42Y	123.7	0.00	1.31	6.37	25	45	13	96	0.00	0.0	1.317	0.006	0	0	0	5
PL.42915	PD.6565	A	6 A (CWC)	7.42Y	123.6	0.09	1.40	6.37	5	45	13	96	0.03	0.1	1.623	0.306	0	0	0	5
PL.42916	PL.42915	A	6 A (CWC)	7.41Y	123.6	0.02	1.42	6.37	5	45	13	96	0.01	0.0	1.681	0.059	2	1	1	5
PL.42917	PL.42916	A	#2 ACSR	7.41Y	123.6	0.01	1.43	4.22	2	30	9	96	0.00	0.0	1.728	0.046	0	0	0	3
PL.41413	PL.42917	A	#2 ACSR	7.41Y	123.6	0.00	1.43	1.70	1	12	4	95	0.00	0.0	1.742	0.014	12	4	1	1
PL.42918	PL.42917	A	#2 ACSR	7.41Y	123.6	0.00	1.43	1.39	1	10	3	96	0.00	0.0	1.769	0.042	10	3	1	1
PL.41677	PL.42917	A	#2 ACSR	7.41Y	123.6	0.00	1.43	1.13	1	8	2	97	0.00	0.0	1.741	0.014	8	2	1	1
PL.42919	PL.42916	A	6 A (CWC)	7.41Y	123.6	0.01	1.43	1.82	1	13	4	96	0.00	0.0	1.756	0.075	0	0	0	1

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Balanced Voltage Drop Report  
Source: West London 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.42920	PL.42919	A	6 A (CWC)	7.41Y	123.6	0.00	1.43	1.82	1	13	4	96	0.00	0.0	1.773	0.017	13	4	1	1
PL.41351	PL.43216	ABC	#3/0 ACSR	7.41Y	123.4	0.27	1.58	102.31	34	2146	764	94	3.44	0.2	1.506	0.196	0	0	0	197
PL.42926	PL.41351	C	#4 ACSR	7.40Y	123.4	0.03	1.61	10.56	8	75	22	96	0.02	0.0	1.585	0.079	11	3	1	4
PL.42927	PL.42926	C	#4 ACSR	7.40Y	123.4	0.03	1.64	8.95	7	64	19	96	0.01	0.0	1.653	0.068	5	1	1	3
PL.63323	PL.42927	C	#2 ACSR	7.40Y	123.4	0.01	1.65	8.26	5	59	17	96	0.00	0.0	1.678	0.025	0	0	0	2
PL.63324	PL.63323	C	#2 ACSR	7.40Y	123.4	0.00	1.65	8.26	5	59	17	96	0.00	0.0	1.678	0.000	59	17	2	2
PL.54733	PL.42927	C	#4 ACSR	7.40Y	123.4	0.00	1.64	0.00	0	0	0	100	0.00	0.0	1.693	0.040	0	0	0	0
PL.42924	PL.41351	C	#4 ACSR	7.41Y	123.4	0.00	1.58	0.69	1	5	1	98	0.00	0.0	1.512	0.006	0	0	0	1
PD.6594	PL.42924	C	75QA	7.41Y	123.4	0.00	1.58	0.69	1	5	1	98	0.00	0.0	1.512	0.006	0	0	0	1
PL.42925	PD.6594	C	#4 ACSR	7.41Y	123.4	0.00	1.58	0.69	1	5	1	98	0.00	0.0	1.553	0.041	5	1	1	1
PL.42928	PL.41351	ABC	#3/0 ACSR	7.40Y	123.3	0.08	1.66	67.48	22	1435	434	96	0.72	0.1	1.602	0.095	24	7	1	187
PL.43768	PL.42928	ABC	#3/0 ACSR	7.40Y	123.3	0.03	1.69	66.34	22	1410	426	96	0.27	0.0	1.638	0.036	0	0	0	186
PL.54209	PL.43768	ABC	#3/0 ACSR	7.40Y	123.3	0.03	1.72	66.34	22	1410	425	96	0.24	0.0	1.671	0.033	17	5	3	186
PL.54210	PL.54209	ABC	#3/0 ACSR	7.39Y	123.2	0.03	1.75	65.56	22	1393	420	96	0.28	0.0	1.709	0.039	14	4	1	183
PL.54279	PL.54210	ABC	#3/0 ACSR	7.39Y	123.2	0.06	1.82	63.94	21	1358	409	96	0.53	0.0	1.787	0.078	26	8	4	177
PL.54282	PL.54279	ABC	#3/0 ACSR	7.39Y	123.2	0.00	1.82	3.96	1	84	25	96	0.00	0.0	1.835	0.048	0	0	0	13
PL.54283	PL.54282	ABC	#3/0 ACSR	7.39Y	123.2	0.00	1.82	3.45	1	73	22	96	0.00	0.0	1.874	0.039	0	0	0	12
PL.54541	PL.54283	ABC	#3/0 ACSR	7.39Y	123.2	0.00	1.82	3.45	1	73	22	96	0.00	0.0	1.933	0.058	17	5	5	12
PL.54724	PL.54541	ABC	#3/0 ACSR	7.39Y	123.2	0.00	1.82	2.33	1	50	15	96	0.00	0.0	2.011	0.078	41	12	4	5
PL.59602	PL.54724	ABC	#3/0 ACSR	7.39Y	123.2	0.00	1.82	0.00	0	0	0	100	0.00	0.0	2.032	0.021	0	0	0	0
PD.8799-A	PL.59602	ABC	Open	7.39Y	123.2	0.00	1.82	0.00	0	0	0	100	0.00	0.0	2.032	0.021	0	0	0	0
PL.54725	PL.54724	A	#2 ACSR	7.39Y	123.2	0.00	1.82	1.21	1	9	3	95	0.00	0.0	2.017	0.006	0	0	0	1
PD.6541	PL.54725	A	60QA	7.39Y	123.2	0.00	1.82	1.21	2	9	3	95	0.00	0.0	2.017	0.006	0	0	0	1
PL.43534	PD.6541	A	#2 ACSR	7.39Y	123.2	0.00	1.82	1.21	1	9	3	95	0.00	0.0	2.039	0.022	9	3	1	1
PL.54540	PL.54541	C	#4 ACSR	7.39Y	123.2	0.00	1.82	0.97	1	7	2	96	0.00	0.0	1.938	0.006	0	0	0	2
PD.6696	PL.54540	C	60QA	7.39Y	123.2	0.00	1.82	0.97	2	7	2	96	0.00	0.0	1.938	0.006	0	0	0	2
PL.43533	PD.6696	C	#4 ACSR	7.39Y	123.2	0.00	1.82	0.97	1	7	2	96	0.00	0.0	2.019	0.080	7	2	2	2
PL.54284	PL.54282	B	1/0 AL URD	7.39Y	123.2	0.00	1.82	1.51	1	11	3	96	0.00	0.0	1.860	0.024	11	3	1	1
PL.54278	PL.54279	ABC	#3/0 ACSR	7.39Y	123.2	0.03	1.85	58.77	20	1248	376	96	0.23	0.0	1.827	0.039	0	0	0	160
PL.42930	PL.54278	ABC	#3/0 ACSR	7.39Y	123.1	0.00	1.85	58.77	20	1247	376	96	0.03	0.0	1.832	0.006	0	0	0	160
PD.6808	PL.42930	ABC	140L	7.39Y	123.1	0.00	1.85	58.77	42	1247	376	96	0.00	0.0	1.832	0.006	0	0	0	160

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: West London 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.54280	PD.6808	ABC	#3/0 ACSR	7.39Y	123.1	0.03	1.88	58.77	20	1247	376	96	0.26	0.0	1.877	0.045	12	3	1	160
PL.54281	PL.54280	ABC	#3/0 ACSR	7.39Y	123.1	0.02	1.91	58.23	19	1236	372	96	0.18	0.0	1.910	0.033	8	2	1	159
PL.56749	PL.54281	ABC	#3/0 ACSR	7.38Y	123.0	0.06	1.96	57.84	19	1227	369	96	0.43	0.0	1.986	0.076	0	0	0	158
PL.56750	PL.56749	ABC	#3/0 ACSR	7.38Y	123.0	0.08	2.05	56.68	19	1202	361	96	0.62	0.1	2.101	0.115	0	0	0	153
PL.41693	PL.56750	ABC	#3/0 ACSR	7.38Y	122.9	0.00	2.05	56.68	19	1202	361	96	0.03	0.0	2.107	0.006	0	0	0	153
PL.41358	PL.41693	ABC	#3/0 ACSR	7.37Y	122.9	0.10	2.15	56.68	19	1202	360	96	0.72	0.1	2.241	0.134	10	3	1	153
PL.54654	PL.41358	ABC	#3/0 ACSR	7.37Y	122.8	0.06	2.21	56.22	19	1191	357	96	0.46	0.0	2.330	0.089	47	14	4	152
PL.59682	PL.54654	ABC	#3/0 ACSR	7.36Y	122.7	0.05	2.26	54.03	18	1144	342	96	0.35	0.0	2.402	0.072	30	9	4	148
PL.60819	PL.59682	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	2.435	0.033	0	0	0	0
PD.9065-A	PL.60819	ABC	Open	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	2.435	0.033	0	0	0	0
PL.59683	PL.59682	ABC	#3/0 ACSR	7.36Y	122.7	0.03	2.30	52.62	18	1114	333	96	0.24	0.0	2.453	0.051	20	6	2	144
PL.43616	PL.59683	C	#4 ACSR	7.36Y	122.7	0.00	2.30	1.32	1	9	3	95	0.00	0.0	2.459	0.006	0	0	0	1
PD.6438	PL.43616	C	60QA	7.36Y	122.7	0.00	2.30	1.32	2	9	3	95	0.00	0.0	2.459	0.006	0	0	0	1
PL.54653	PD.6438	C	#4 ACSR	7.36Y	122.7	0.00	2.30	1.32	1	9	3	95	0.00	0.0	2.480	0.021	9	3	1	1
PL.54649	PL.59683	ABC	#3/0 ACSR	7.36Y	122.6	0.10	2.40	51.22	17	1084	324	96	0.68	0.1	2.610	0.156	19	6	2	141
PL.54650	PL.54649	C	#4 ACSR	7.36Y	122.6	0.00	2.40	2.27	2	16	5	95	0.00	0.0	2.616	0.006	0	0	0	2
PD.6439	PL.54650	C	60QA	7.36Y	122.6	0.00	2.40	2.27	4	16	5	95	0.00	0.0	2.616	0.006	0	0	0	2
PL.54647	PD.6439	C	#4 ACSR	7.36Y	122.6	0.00	2.40	2.27	2	16	5	95	0.00	0.0	2.658	0.043	16	5	2	2
PL.54652	PL.54649	ABC	#3/0 ACSR	7.35Y	122.6	0.04	2.44	48.69	16	1030	307	96	0.24	0.0	2.672	0.062	23	7	3	135
PL.66187	PL.54652	B	#2 ACSR	7.35Y	122.6	0.00	2.44	4.89	3	35	10	96	0.00	0.0	2.675	0.003	0	0	0	6
PD.9599	PL.66187	B	25T	7.35Y	122.6	0.00	2.44	4.89	0	35	10	96	0.00	0.0	2.675	0.003	0	0	0	6
PL.66188	PD.9599	B	#2 ACSR	7.35Y	122.6	0.01	2.44	4.89	3	35	10	96	0.00	0.0	2.730	0.055	26	8	5	6
PL.54646	PL.66188	B	#2 ACSR	7.35Y	122.6	0.00	2.44	1.25	1	9	3	95	0.00	0.0	2.746	0.015	9	3	1	1
PL.54644	PL.54652	ABC	#3/0 ACSR	7.35Y	122.5	0.02	2.46	45.99	15	972	290	96	0.13	0.0	2.710	0.037	0	0	0	126
PL.54643	PL.54644	ABC	#3/0 ACSR	7.35Y	122.5	0.01	2.47	45.99	15	972	289	96	0.07	0.0	2.730	0.020	5	2	1	126
PL.54642	PL.54643	ABC	#3/0 ACSR	7.35Y	122.5	0.01	2.48	45.73	15	967	288	96	0.08	0.0	2.754	0.024	3	1	1	125
PL.54640	PL.54642	ABC	#3/0 ACSR	7.35Y	122.5	0.05	2.53	45.59	15	964	287	96	0.27	0.0	2.832	0.078	1	0	2	124
PL.57538	PL.54640	C	#1/0 ACSR	7.35Y	122.5	0.00	2.53	2.44	1	17	5	96	0.00	0.0	2.835	0.003	0	0	0	4
PD.8376	PL.57538	C	20QA	7.35Y	122.5	0.00	2.53	2.44	12	17	5	96	0.00	0.0	2.835	0.003	0	0	0	4
PL.57539	PD.8376	C	#1/0 ACSR	7.35Y	122.5	0.00	2.53	2.44	1	17	5	96	0.00	0.0	2.847	0.012	17	5	4	4
PL.54641	PL.54640	ABC	#3/0 ACSR	7.35Y	122.5	0.02	2.55	44.73	15	945	281	96	0.09	0.0	2.861	0.028	4	1	1	118

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: West London 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.60383	PL.54641	B	6 A (CWC)	7.35Y	122.4	0.01	2.56	48.98	35	345	103	96	0.03	0.0	2.867	0.006	0	0	0	48
PD.8860	PL.60383	B	30T	7.35Y	122.4	0.00	2.56	48.98	0	345	103	96	0.00	0.0	2.867	0.006	0	0	0	48
PL.60384	PD.8860	B	6 A (CWC)	7.32Y	122.1	0.37	2.93	48.98	35	345	103	96	0.96	0.3	3.034	0.167	9	3	1	48
PL.54632	PL.60384	B	6 A (CWC)	7.32Y	122.0	0.09	3.02	47.75	34	335	100	96	0.23	0.1	3.076	0.042	10	3	1	47
PL.54275	PL.54632	B	6 A (CWC)	7.31Y	121.9	0.06	3.08	46.28	33	325	96	96	0.15	0.0	3.105	0.029	11	3	1	46
PL.54276	PL.54275	B	6 A (CWC)	7.31Y	121.9	0.04	3.13	44.74	32	314	93	96	0.10	0.0	3.125	0.020	0	0	1	45
PL.54277	PL.54276	B	6 A (CWC)	7.31Y	121.8	0.05	3.18	44.74	32	314	93	96	0.12	0.0	3.152	0.027	17	5	3	44
PL.54274	PL.54277	B	6 A (CWC)	7.30Y	121.7	0.08	3.26	42.36	30	297	88	96	0.17	0.1	3.192	0.040	6	2	2	41
PL.54273	PL.54274	B	6 A (CWC)	7.30Y	121.7	0.00	3.26	0.89	1	6	2	95	0.00	0.0	3.222	0.030	6	2	1	1
PL.54556	PL.54274	B	6 A (CWC)	7.30Y	121.7	0.06	3.32	40.66	29	285	84	96	0.14	0.0	3.227	0.034	0	0	0	38
PL.56729	PL.54556	B	6 A (CWC)	7.30Y	121.6	0.03	3.36	40.66	29	285	84	96	0.07	0.0	3.246	0.019	42	12	5	38
PL.56728	PL.56729	B	6 A (CWC)	7.30Y	121.6	0.02	3.37	34.72	25	243	72	96	0.03	0.0	3.259	0.013	38	11	3	33
PL.54566	PL.56728	B	6 A (CWC)	7.30Y	121.6	0.04	3.42	17.24	12	121	36	96	0.03	0.0	3.318	0.058	26	8	2	19
PL.54567	PL.54566	B	6 A (CWC)	7.29Y	121.6	0.01	3.43	13.46	10	94	28	96	0.01	0.0	3.337	0.020	0	0	0	17
PL.42800	PL.54567	B	6 A (CWC)	7.29Y	121.6	0.01	3.44	6.13	4	43	13	96	0.00	0.0	3.379	0.042	8	2	2	5
PL.42801	PL.42800	B	6 A (CWC)	7.29Y	121.6	0.00	3.44	5.05	4	35	10	96	0.00	0.0	3.404	0.024	16	5	1	3
PL.63327	PL.42801	B	6 A (CWC)	7.29Y	121.6	0.00	3.44	2.83	2	20	6	96	0.00	0.0	3.435	0.032	20	6	2	2
PL.54568	PL.54567	B	#4 ACSR	7.29Y	121.6	0.00	3.43	7.33	6	51	15	96	0.00	0.0	3.354	0.017	51	15	12	12
PL.61001	PL.56728	B	6 A (CWC)	7.30Y	121.6	0.04	3.41	12.00	9	84	25	96	0.02	0.0	3.336	0.077	24	7	6	11
PL.61002	PL.61001	B	6 A (CWC)	7.29Y	121.6	0.02	3.43	8.57	6	60	18	96	0.01	0.0	3.390	0.054	15	4	1	5
PL.61003	PL.61002	B	6 A (CWC)	7.29Y	121.6	0.00	3.43	6.40	5	45	13	96	0.00	0.0	3.420	0.030	45	13	4	4
PL.54629	PL.54641	ABC	#2 ACSR	7.35Y	122.4	0.03	2.58	28.22	16	596	177	96	0.16	0.0	2.910	0.049	16	5	2	69
PL.54630	PL.54629	ABC	#2 ACSR	7.34Y	122.4	0.05	2.63	27.46	16	580	172	96	0.22	0.0	2.983	0.073	13	4	4	67
PL.54631	PL.54630	ABC	#2 ACSR	7.34Y	122.3	0.04	2.67	26.82	15	566	168	96	0.16	0.0	3.039	0.055	0	0	1	63
PL.54506	PL.54631	ABC	#2 ACSR	7.34Y	122.3	0.02	2.69	26.15	15	552	164	96	0.10	0.0	3.074	0.035	9	3	1	60
PL.54509	PL.54506	ABC	#2 ACSR	7.34Y	122.3	0.03	2.73	23.27	13	491	146	96	0.13	0.0	3.132	0.059	13	4	1	53
PL.54215	PL.54509	C	#2 ACSR	7.34Y	122.3	0.00	2.73	3.84	2	27	8	96	0.00	0.0	3.138	0.006	0	0	0	2
PD.6669	PL.54215	C	15T	7.34Y	122.3	0.00	2.73	3.84	0	27	8	96	0.00	0.0	3.138	0.006	0	0	0	2
PL.43242	PD.6669	C	#2 ACSR	7.34Y	122.3	0.00	2.73	3.84	2	27	8	96	0.00	0.0	3.147	0.009	27	8	2	2
PL.54634	PL.54509	ABC	#2 ACSR	7.33Y	122.2	0.03	2.76	21.38	12	451	134	96	0.12	0.0	3.195	0.063	0	0	0	50
PL.54635	PL.54634	C	6 A (CWC)	7.33Y	122.2	0.01	2.77	24.91	18	175	52	96	0.01	0.0	3.200	0.006	0	0	0	19

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: West London 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.6129	PL.54635	C	60QA	7.33Y	122.2	0.00	2.77	24.91	42	175	52	96	0.00	0.0	3.200	0.006	0	0	0	19
PL.54752	PD.6129	C	6 A (CWC)	7.33Y	122.2	0.06	2.83	24.91	18	175	52	96	0.08	0.0	3.251	0.051	0	0	0	19
PL.54753	PL.54752	C	6 A (CWC)	7.33Y	122.1	0.05	2.88	24.91	18	175	52	96	0.07	0.0	3.299	0.047	14	4	1	19
PL.54570	PL.54753	C	6 A (CWC)	7.33Y	122.1	0.04	2.92	22.93	16	161	48	96	0.04	0.0	3.339	0.040	30	9	4	18
PL.54569	PL.54570	C	6 A (CWC)	7.32Y	122.0	0.04	2.96	18.63	13	131	39	96	0.04	0.0	3.389	0.050	0	0	0	14
PL.54214	PL.54569	C	#4 ACSR	7.32Y	122.0	0.00	2.96	3.31	3	23	7	96	0.00	0.0	3.403	0.014	15	4	1	2
PL.54271	PL.54214	C	#4 ACSR	7.32Y	122.0	0.00	2.96	1.21	1	9	3	95	0.00	0.0	3.428	0.025	9	3	1	1
PL.54272	PL.54569	C	6 A (CWC)	7.32Y	122.0	0.03	2.99	15.33	11	108	32	96	0.02	0.0	3.430	0.041	12	3	2	12
PL.54564	PL.54272	C	6 A (CWC)	7.32Y	122.0	0.03	3.01	13.64	10	96	28	96	0.02	0.0	3.478	0.048	19	6	1	10
PL.54565	PL.54564	C	6 A (CWC)	7.32Y	122.0	0.02	3.03	10.95	8	77	23	96	0.01	0.0	3.519	0.041	13	4	3	9
PL.54563	PL.54565	C	6 A (CWC)	7.32Y	121.9	0.02	3.06	9.05	6	64	19	96	0.01	0.0	3.575	0.056	0	0	0	6
PL.43245	PL.54563	C	#4 ACSR	7.32Y	121.9	0.00	3.06	3.63	3	25	8	95	0.00	0.0	3.607	0.032	3	1	1	3
PL.43246	PL.43245	C	#4 ACSR	7.32Y	121.9	0.01	3.07	3.17	2	22	7	95	0.00	0.0	3.693	0.086	9	3	1	2
PL.43247	PL.43246	C	#4 ACSR	7.32Y	121.9	0.00	3.07	1.85	1	13	4	96	0.00	0.0	3.733	0.040	13	4	1	1
PL.43244	PL.54563	C	6 A (CWC)	7.32Y	121.9	0.00	3.06	5.42	4	38	11	96	0.00	0.0	3.594	0.019	21	6	2	3
PL.43243	PL.43244	C	6 A (CWC)	7.32Y	121.9	0.00	3.06	2.37	2	17	5	96	0.00	0.0	3.642	0.048	17	5	1	1
PL.54754	PL.54752	C	#1/0 ACSR	7.33Y	122.2	0.00	2.83	0.00	0	0	0	100	0.00	0.0	3.286	0.035	0	0	0	0
PL.54633	PL.54634	ABC	#2 ACSR	7.33Y	122.2	0.03	2.79	13.07	7	276	82	96	0.06	0.0	3.282	0.087	0	0	0	31
PL.41605	PL.54633	A	#4 ACSR	7.33Y	122.2	0.01	2.80	39.22	30	276	82	96	0.02	0.0	3.287	0.006	0	0	0	31
PD.6755	PL.41605	A	60QA	7.33Y	122.2	0.00	2.80	39.22	65	276	82	96	0.00	0.0	3.287	0.006	0	0	0	31
PL.54636	PD.6755	A	#4 ACSR	7.33Y	122.1	0.06	2.86	39.22	30	276	82	96	0.12	0.0	3.321	0.033	15	4	2	31
PL.54637	PL.54636	A	#4 ACSR	7.33Y	122.1	0.05	2.91	37.13	29	261	77	96	0.10	0.0	3.354	0.033	12	3	1	29
PL.54638	PL.54637	A	#4 ACSR	7.32Y	122.1	0.03	2.94	35.48	27	249	74	96	0.06	0.0	3.372	0.019	2	1	1	28
PL.54639	PL.54638	A	#4 ACSR	7.32Y	122.0	0.08	3.02	35.15	27	247	73	96	0.15	0.1	3.423	0.051	0	0	0	27
PL.43248	PL.54639	A	#4 ACSR	7.31Y	121.9	0.08	3.10	31.83	24	223	66	96	0.13	0.1	3.480	0.057	11	3	1	24
PL.43249	PL.43248	A	#4 ACSR	7.31Y	121.9	0.04	3.14	28.98	22	203	60	96	0.06	0.0	3.511	0.031	0	0	0	21
PL.42903	PL.43249	A	2 AL URD	7.31Y	121.9	0.00	3.14	16.89	10	118	35	96	0.00	0.0	3.517	0.006	0	0	0	12
PD.6700	PL.42903	A	50QA	7.31Y	121.9	0.00	3.14	16.89	34	118	35	96	0.00	0.0	3.517	0.006	0	0	0	12
PL.42905	PD.6700	A	2 AL URD	7.31Y	121.8	0.02	3.17	16.89	10	118	35	96	0.02	0.0	3.555	0.038	0	0	0	12
PL.42913	PL.42905	A	2 AL URD	7.31Y	121.8	0.03	3.20	16.89	10	118	35	96	0.02	0.0	3.603	0.048	12	3	1	12
PL.42911	PL.42913	A	2 AL URD	7.31Y	121.8	0.01	3.21	8.50	5	60	18	96	0.00	0.0	3.674	0.071	42	12	3	5

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

Balanced Voltage Drop Report  
Source: West London 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.42912	PL.42911	A	2 AL URD	7.31Y	121.8	0.00	3.21	2.50	1	18	5	96	0.00	0.0	3.703	0.029	18	5	2	2
PL.42914	PL.42913	A	2 AL URD	7.31Y	121.8	0.01	3.21	6.72	4	47	14	96	0.00	0.0	3.661	0.058	10	3	1	6
PL.43260	PL.42914	A	2 AL URD	7.31Y	121.8	0.01	3.22	5.33	3	37	11	96	0.00	0.0	3.718	0.057	8	2	1	5
PL.43261	PL.43260	A	2 AL URD	7.31Y	121.8	0.02	3.24	4.15	2	29	9	96	0.00	0.0	3.843	0.124	7	2	1	4
PL.43262	PL.43261	A	2 AL URD	7.31Y	121.8	0.00	3.24	3.09	2	22	6	96	0.00	0.0	3.865	0.023	15	4	1	3
PL.43263	PL.43262	A	2 AL URD	7.31Y	121.8	0.00	3.24	0.99	1	7	2	96	0.00	0.0	3.951	0.086	7	2	2	2
PL.43264	PL.43263	A	2 AL URD	7.31Y	121.8	0.00	3.24	0.00	0	0	0	100	0.00	0.0	3.966	0.014	0	0	0	0
PL.43250	PL.43249	A	2 AL URD	7.31Y	121.9	0.00	3.14	12.09	7	85	25	96	0.00	0.0	3.517	0.006	0	0	0	9
PD.6597	PL.43250	A	50QA	7.31Y	121.9	0.00	3.14	12.09	24	85	25	96	0.00	0.0	3.517	0.006	0	0	0	9
PL.42904	PD.6597	A	2 AL URD	7.31Y	121.8	0.01	3.15	12.09	7	85	25	96	0.01	0.0	3.542	0.025	18	5	2	9
PL.42906	PL.42904	A	2 AL URD	7.31Y	121.8	0.02	3.17	9.46	5	66	20	96	0.01	0.0	3.616	0.074	30	9	2	7
PL.42907	PL.42906	A	2 AL URD	7.31Y	121.8	0.01	3.18	5.18	3	36	11	96	0.00	0.0	3.662	0.046	16	5	2	5
PL.42909	PL.42907	A	2 AL URD	7.31Y	121.8	0.00	3.18	2.90	2	20	6	96	0.00	0.0	3.717	0.055	8	2	2	3
PL.42910	PL.42909	A	2 AL URD	7.31Y	121.8	0.00	3.18	1.80	1	13	4	96	0.00	0.0	3.749	0.032	13	4	1	1
PL.42908	PL.42910	A	2 AL URD	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	3.758	0.009	0	0	0	0
PL.42224	PL.42910	A	2 AL URD	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	3.783	0.034	0	0	0	0
PL.42223	PL.42907	A	2 AL URD	7.31Y	121.8	0.00	3.18	0.00	0	0	0	100	0.00	0.0	3.681	0.019	0	0	0	0
PL.54562	PL.43248	A	#4 ACSR	7.31Y	121.9	0.00	3.10	1.35	1	9	3	95	0.00	0.0	3.554	0.074	9	3	2	2
PL.64638	PL.54639	A	#4 ACSR	7.32Y	122.0	0.00	3.02	3.32	3	23	7	96	0.00	0.0	3.448	0.025	0	0	0	3
PL.64639	PL.64638	A	#4 ACSR	7.32Y	122.0	0.00	3.02	3.32	3	23	7	96	0.00	0.0	3.448	0.000	23	7	3	3
PL.54507	PL.54506	A	#4 ACSR	7.34Y	122.3	0.00	2.69	5.99	5	42	12	96	0.00	0.0	3.079	0.006	0	0	0	4
PD.6596	PL.54507	A	50QA	7.34Y	122.3	0.00	2.69	5.99	12	42	12	96	0.00	0.0	3.079	0.006	0	0	0	4
PL.54554	PD.6596	A	#4 ACSR	7.34Y	122.3	0.01	2.70	5.99	5	42	12	96	0.00	0.0	3.124	0.044	30	9	3	4
PL.54555	PL.54554	A	#1/0 ACSR	7.34Y	122.3	0.00	2.70	1.75	1	12	4	95	0.00	0.0	3.137	0.013	12	4	1	1
PL.54508	PL.54506	C	#1/0 ACSR	7.34Y	122.3	0.00	2.69	1.37	1	10	3	96	0.00	0.0	3.079	0.006	0	0	0	2
PD.6128	PL.54508	C	10QA	7.34Y	122.3	0.00	2.69	1.37	0	10	3	96	0.00	0.0	3.079	0.006	0	0	0	2
PL.54510	PD.6128	C	#1/0 ACSR	7.34Y	122.3	0.00	2.69	1.37	1	10	3	96	0.00	0.0	3.093	0.013	0	0	1	2
PL.54511	PL.54510	C	#1/0 ACSR	7.34Y	122.3	0.00	2.69	1.37	1	10	3	96	0.00	0.0	3.119	0.027	10	3	1	1
PL.54505	PL.54631	A	#4 ACSR	7.34Y	122.3	0.00	2.67	2.01	2	14	4	96	0.00	0.0	3.044	0.006	0	0	0	2
PD.6127	PL.54505	A	60QA	7.34Y	122.3	0.00	2.67	2.01	3	14	4	96	0.00	0.0	3.044	0.006	0	0	0	2
PL.54504	PD.6127	A	#4 ACSR	7.34Y	122.3	0.00	2.67	2.01	2	14	4	96	0.00	0.0	3.059	0.015	14	4	2	2

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

Balanced Voltage Drop Report  
Source: West London 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.54651	PL.54649	C	#4 ACSR	7.36Y	122.6	0.00	2.40	2.64	2	19	5	97	0.00	0.0	2.616	0.006	0	0	0	2
PD.6440	PL.54651	C	60QA	7.36Y	122.6	0.00	2.40	2.64	4	19	5	97	0.00	0.0	2.616	0.006	0	0	0	2
PL.54648	PD.6440	C	#4 ACSR	7.36Y	122.6	0.00	2.40	2.64	2	19	5	97	0.00	0.0	2.631	0.015	19	5	2	2
CP.62	PL.41693	ABC	Cap (300)	7.38Y	122.9	0.00	2.05	0.00	0	0	0	100	0.00	0.0	2.107	0.015	0	0	0	0
PL.62421	PL.56749	C	#3/0 ACSR	7.38Y	123.0	0.00	1.96	3.46	1	25	7	96	0.00	0.0	1.986	0.000	0	0	0	5
PD.9333	PL.62421	C	20QA	7.38Y	123.0	0.00	1.96	3.46	17	25	7	96	0.00	0.0	1.986	0.000	0	0	0	5
PL.62422	PD.9333	C	6 A (CWC)	7.38Y	123.0	0.01	1.97	3.46	2	25	7	96	0.00	0.0	2.049	0.063	6	2	2	5
PL.62423	PL.62422	C	6 A (CWC)	7.38Y	123.0	0.00	1.98	2.67	2	19	6	95	0.00	0.0	2.099	0.051	18	5	2	3
PL.54599	PL.62423	C	6 A (CWC)	7.38Y	123.0	0.00	1.98	0.08	0	1	0	100	0.00	0.0	2.132	0.033	1	0	1	1
PL.54211	PL.54210	C	#1/0 ACSR	7.39Y	123.2	0.00	1.75	1.13	0	8	2	97	0.00	0.0	1.715	0.006	0	0	0	3
PD.6645	PL.54211	C	40QA	7.39Y	123.2	0.00	1.75	1.13	3	8	2	97	0.00	0.0	1.715	0.006	0	0	0	3
PL.42929	PD.6645	C	#1/0 ACSR	7.39Y	123.2	0.00	1.75	1.13	0	8	2	97	0.00	0.0	1.786	0.071	8	2	3	3
PL.54212	PL.54210	B	#1/0 ACSR	7.39Y	123.2	0.00	1.75	1.79	1	13	4	96	0.00	0.0	1.712	0.003	0	0	0	2
PD.8135	PL.54212	B	15QA	7.39Y	123.2	0.00	1.75	1.79	0	13	4	96	0.00	0.0	1.712	0.003	0	0	0	2
PL.54213	PD.8135	B	#1/0 ACSR	7.39Y	123.2	0.00	1.75	1.79	1	13	4	96	0.00	0.0	1.734	0.022	13	4	2	2
PL.41021	PL.41351	ABC	#1/0 ACSR	7.40Y	123.4	0.02	1.60	31.34	14	628	302	90	0.10	0.0	1.545	0.039	0	0	0	4
PL.41022	PL.41021	ABC	#1/0 ACSR	7.40Y	123.4	0.02	1.62	29.17	13	584	280	90	0.06	0.0	1.584	0.038	202	98	1	3
PL.63286	PL.41022	ABC	#1/0 ACSR	7.40Y	123.4	0.02	1.64	19.04	8	382	182	90	0.04	0.0	1.625	0.042	0	0	0	2
PL.63287	PL.63286	ABC	#1/0 ACSR	7.40Y	123.3	0.03	1.66	19.04	8	382	182	90	0.07	0.0	1.700	0.075	0	0	0	2
PL.63018	PL.63287	ABC	#1/0 ACSR	7.40Y	123.3	0.01	1.68	19.04	8	382	182	90	0.03	0.0	1.736	0.036	14	4	1	2
PL.63019	PL.63018	ABC	#1/0 ACSR	7.40Y	123.3	0.01	1.69	18.41	8	368	178	90	0.01	0.0	1.780	0.044	368	178	1	1
PL.63288	PL.63019	ABC	#1/0 ACSR	7.40Y	123.3	0.00	1.69	0.00	0	0	0	100	0.00	0.0	1.788	0.008	0	0	0	0
PL.41639	PL.41021	ABC	#1/0 ACSR	7.40Y	123.4	0.00	1.60	2.17	1	43	21	90	0.00	0.0	1.587	0.042	43	21	1	1
PL.41336	PL.41351	C	#4 ACSR	7.41Y	123.4	0.00	1.58	0.00	0	0	0	100	0.00	0.0	1.562	0.056	0	0	1	1
PL.42229	PL.43215	A	1/0 AL URD	7.44Y	124.0	0.00	1.02	0.53	0	4	1	97	0.00	0.0	0.995	0.013	4	1	1	1
PL.42230	PL.43214	A	1/0 AL URD	7.44Y	124.0	0.00	0.98	3.65	2	26	8	96	0.00	0.0	0.948	0.012	26	8	3	3
PL.42231	PL.43221	A	1/0 AL URD	7.44Y	124.1	0.00	0.94	3.17	2	23	7	96	0.00	0.0	0.903	0.010	23	7	2	2
PL.52286	PL.52285	A	6 A (CWC)	7.46Y	124.4	0.00	0.65	0.41	0	3	1	95	0.00	0.0	0.661	0.006	0	0	0	4
PD.6740	PL.52286	A	75QA	7.46Y	124.4	0.00	0.65	0.41	1	3	1	95	0.00	0.0	0.661	0.006	0	0	0	4
PL.42827	PD.6740	A	6 A (CWC)	7.46Y	124.4	0.00	0.65	0.41	0	3	1	95	0.00	0.0	0.698	0.038	2	1	2	4
PL.42828	PL.42827	A	6 A (CWC)	7.46Y	124.4	0.00	0.65	0.06	0	0	0	100	0.00	0.0	0.733	0.035	0	0	2	2

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Source: West London 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.42829	PL.42828	A	6 A (CWC)	7.46Y	124.4	0.00	0.65	0.00	0	0	0	100	0.00	0.0	0.789	0.056	0	0	0	0
PL.52283	PL.52284	B	#1/0 ACSR	7.46Y	124.4	0.01	0.59	55.14	24	395	117	96	0.02	0.0	0.599	0.006	0	0	0	33
PD.6137	PL.52283	B	25T	7.46Y	124.4	0.00	0.59	55.14	0	395	117	96	0.00	0.0	0.599	0.006	0	0	0	33
PL.41451	PD.6137	B	#1/0 ACSR	7.46Y	124.4	0.01	0.60	55.14	24	395	117	96	0.04	0.0	0.611	0.012	16	5	2	33
PL.43229	PL.41451	B	#1/0 ACSR	7.46Y	124.4	0.04	0.64	52.94	23	379	113	96	0.09	0.0	0.640	0.030	19	6	2	31
PL.43230	PL.43229	B	#1/0 ACSR	7.46Y	124.3	0.05	0.69	50.33	22	360	107	96	0.13	0.0	0.687	0.047	9	3	2	29
PL.43231	PL.43230	B	#1/0 ACSR	7.45Y	124.2	0.06	0.76	49.04	21	351	104	96	0.14	0.0	0.744	0.056	8	2	2	27
PL.43232	PL.43231	B	#1/0 ACSR	7.45Y	124.2	0.07	0.83	46.27	20	331	98	96	0.15	0.0	0.809	0.065	0	0	0	23
PL.43235	PL.43232	B	#4 ACSR	7.45Y	124.1	0.07	0.90	24.58	19	176	52	96	0.10	0.1	0.877	0.068	0	0	0	9
PL.43236	PL.43235	B	#4 ACSR	7.44Y	124.1	0.03	0.93	22.87	18	163	48	96	0.03	0.0	0.912	0.035	50	15	4	8
PL.43239	PL.43236	B	1/0 AL URD	7.44Y	124.1	0.00	0.94	8.71	5	62	18	96	0.00	0.0	0.918	0.006	0	0	0	2
PD.6711	PL.43239	B	50QA	7.44Y	124.1	0.00	0.94	8.71	17	62	18	96	0.00	0.0	0.918	0.006	0	0	0	2
PL.43240	PD.6711	B	1/0 AL URD	7.44Y	124.0	0.02	0.95	8.71	5	62	18	96	0.01	0.0	0.975	0.058	0	0	0	2
PL.42823	PL.43240	B	1/0 AL URD	7.44Y	124.0	0.00	0.95	0.00	0	0	0	100	0.00	0.0	1.017	0.041	0	0	0	0
PL.42235	PL.43240	B	1/0 AL URD	7.44Y	124.0	0.00	0.96	8.71	5	62	18	96	0.00	0.0	1.003	0.028	62	18	2	2
PL.41830	PL.43236	B	#2 ACSR	7.44Y	124.1	0.00	0.94	7.21	4	51	15	96	0.00	0.0	0.921	0.008	51	15	2	2
PL.42062	PL.43235	B	1/0 AL URD	7.45Y	124.1	0.00	0.91	1.72	1	12	4	95	0.00	0.0	0.924	0.047	12	4	1	1
PL.43237	PL.43232	B	#4 ACSR	7.45Y	124.1	0.04	0.87	21.69	17	155	46	96	0.04	0.0	0.854	0.046	29	8	3	14
PL.43238	PL.43237	B	#4 ACSR	7.45Y	124.1	0.04	0.90	17.68	14	126	37	96	0.03	0.0	0.901	0.046	10	3	3	11
PL.42825	PL.43238	B	1/0 AL URD	7.45Y	124.1	0.00	0.91	16.31	10	116	34	96	0.00	0.0	0.907	0.006	0	0	0	8
PD.6563	PL.42825	B	50QA	7.45Y	124.1	0.00	0.91	16.31	33	116	34	96	0.00	0.0	0.907	0.006	0	0	0	8
PL.42826	PD.6563	B	1/0 AL URD	7.44Y	124.1	0.03	0.93	16.31	10	116	34	96	0.02	0.0	0.961	0.054	8	2	2	8
PL.42236	PL.42826	B	1/0 AL URD	7.44Y	124.1	0.00	0.94	5.72	3	41	12	96	0.00	0.0	0.973	0.013	41	12	2	2
PL.43241	PL.42826	B	1/0 AL URD	7.44Y	124.1	0.01	0.94	9.48	6	68	20	96	0.00	0.0	0.983	0.022	30	9	2	4
PL.42824	PL.43241	B	1/0 AL URD	7.44Y	124.1	0.00	0.94	0.00	0	0	0	100	0.00	0.0	0.988	0.006	0	0	0	0
PL.42064	PL.43241	B	1/0 AL URD	7.44Y	124.1	0.00	0.94	5.24	3	37	11	96	0.00	0.0	0.999	0.017	37	11	2	2
PL.43233	PL.43231	B	#4 ACSR	7.45Y	124.2	0.00	0.76	1.68	1	12	4	95	0.00	0.0	0.787	0.044	4	1	1	2
PL.43234	PL.43233	B	#4 ACSR	7.45Y	124.2	0.00	0.76	1.19	1	8	3	94	0.00	0.0	0.836	0.049	8	3	1	1
PL.41716	PL.41717	ABC	#4 ACSR	7.49Y	124.8	0.02	0.21	15.36	12	331	98	96	0.04	0.0	0.306	0.026	0	0	0	28
PL.42788	PL.41716	B	1/0 AL URD	7.49Y	124.8	0.01	0.22	46.07	27	331	98	96	0.02	0.0	0.312	0.006	0	0	0	28
PD.6136	PL.42788	B	75QA	7.49Y	124.8	0.00	0.22	46.07	61	331	98	96	0.00	0.0	0.312	0.006	0	0	0	28

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

Balanced Voltage Drop Report  
Source: West London 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.42789	PD.6136	B	1/0 AL URD	7.49Y	124.8	0.01	0.23	46.07	27	331	98	96	0.03	0.0	0.319	0.007	16	5	1	28
PL.42787	PL.42789	B	1/0 AL URD	7.48Y	124.7	0.05	0.28	43.90	26	315	93	96	0.12	0.0	0.355	0.036	12	4	1	27
PL.42786	PL.42787	B	1/0 AL URD	7.48Y	124.7	0.05	0.33	42.23	25	303	90	96	0.12	0.0	0.394	0.040	25	7	2	26
PL.42785	PL.42786	B	1/0 AL URD	7.48Y	124.6	0.05	0.38	38.75	23	278	82	96	0.11	0.0	0.436	0.042	12	4	3	24
PL.42784	PL.42785	B	1/0 AL URD	7.47Y	124.6	0.05	0.42	37.07	22	266	79	96	0.09	0.0	0.478	0.042	20	6	2	21
PL.43526	PL.42784	B	1/0 AL URD	7.47Y	124.5	0.06	0.49	34.29	20	246	73	96	0.12	0.0	0.538	0.060	13	4	1	19
PL.43525	PL.43526	B	1/0 AL URD	7.47Y	124.5	0.02	0.51	32.50	19	233	69	96	0.04	0.0	0.562	0.024	22	7	1	18
PL.43524	PL.43525	B	1/0 AL URD	7.47Y	124.4	0.04	0.55	29.42	17	211	62	96	0.07	0.0	0.608	0.046	13	4	1	17
PL.43523	PL.43524	B	1/0 AL URD	7.46Y	124.4	0.03	0.59	27.62	16	198	59	96	0.05	0.0	0.649	0.041	15	4	2	16
PL.43522	PL.43523	B	1/0 AL URD	7.46Y	124.4	0.03	0.62	25.54	15	183	54	96	0.04	0.0	0.689	0.040	19	6	1	14
PL.43521	PL.43522	B	1/0 AL URD	7.46Y	124.3	0.04	0.65	22.82	13	163	48	96	0.05	0.0	0.745	0.056	23	7	2	13
PL.43520	PL.43521	B	1/0 AL URD	7.46Y	124.3	0.03	0.68	19.68	12	141	42	96	0.03	0.0	0.790	0.044	22	6	2	11
PL.41582	PL.43520	B	1/0 AL URD	7.46Y	124.3	0.00	0.68	0.00	0	0	0	100	0.00	0.0	0.793	0.003	0	0	0	0
PL.43479	PL.43520	B	1/0 AL URD	7.46Y	124.3	0.03	0.71	16.66	10	119	35	96	0.03	0.0	0.859	0.070	37	11	3	9
PL.43480	PL.43479	B	1/0 AL URD	7.46Y	124.3	0.01	0.72	11.45	7	82	24	96	0.00	0.0	0.876	0.017	27	8	2	6
PL.43481	PL.43480	B	1/0 AL URD	7.46Y	124.3	0.01	0.72	7.70	5	55	16	96	0.00	0.0	0.915	0.038	0	0	0	4
PL.43518	PL.43481	B	1/0 AL URD	7.46Y	124.3	0.00	0.72	0.00	0	0	0	100	0.00	0.0	0.975	0.060	0	0	0	0
PL.42065	PL.43481	B	1/0 AL URD	7.46Y	124.3	0.00	0.73	3.89	2	28	8	96	0.00	0.0	0.932	0.017	28	8	2	2
PL.41583	PL.43481	B	1/0 AL URD	7.46Y	124.3	0.00	0.73	3.81	2	27	8	96	0.00	0.0	0.927	0.013	27	8	2	2

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load	Losses	Total		
KW	8877	0	0	0	0	0	130		0.00	9007	Lowest Voltage =	120.51 on Element PL.54159
KVAR	2779	0	0	0	0	0	259			3038	Max Accm VoltD =	4.49 on Element PL.54159
											Max Elem VoltD =	0.62 on Element PL.42068