

Balanced Voltage Drop Report
Source: West London 1

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 1		ABC	SRC-West L	7.50Y	125.0	0.00	0.00	506.22	0	10806	3600	95	0.00	0.0	0.000	0.000	0	0	0	1047
PL.53075	West London 1	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	246.94	48	5193	1976	93	0.09	0.0	0.002	0.002	0	0	0	459
PL.53081	PL.53075	ABC	336 MCM AC	7.50Y	125.0	0.00	0.01	246.94	48	5193	1976	93	0.09	0.0	0.004	0.002	0	0	0	459
----- Feeder No. 2 (Hwy 229 F2) Beginning with Device PD.8082 -----																				
PD.8082	PL.53081	ABC	400VWE	7.50Y	125.0	0.00	0.01	246.94	0	5192	1976	93	0.00	0.0	0.004	0.002	0	0	0	459
PL.34603	PD.8082	ABC	556 MCM AC	7.50Y	125.0	0.04	0.05	246.94	35	5192	1976	93	0.22	0.0	0.042	0.039	0	0	0	459
PL.36018	PL.34603	C	#1/0 ACSR	7.50Y	125.0	0.00	0.05	0.64	0	5	1	98	0.00	0.0	0.076	0.034	5	1	1	1
PL.34767	PL.34603	ABC	556 MCM AC	7.49Y	124.8	0.20	0.24	246.73	35	5188	1971	93	1.09	0.0	0.236	0.194	0	0	0	458
PL.55983	PL.34767	ABC	556 MCM AC	7.48Y	124.7	0.06	0.31	246.73	35	5187	1949	94	0.35	0.0	0.299	0.062	14	3	2	458
PL.55984	PL.55983	ABC	556 MCM AC	7.48Y	124.7	0.02	0.33	246.11	35	5173	1939	94	0.13	0.0	0.321	0.023	13	3	1	456
PL.58180	PL.55984	B	#4 ACSR	7.48Y	124.7	0.00	0.33	22.96	18	167	39	97	0.00	0.0	0.324	0.002	0	0	0	20
PD.8603	PL.58180	B	25T	7.48Y	124.7	0.00	0.33	22.96	0	167	39	97	0.00	0.0	0.324	0.002	0	0	0	20
PL.58181	PD.8603	B	#4 ACSR	7.48Y	124.6	0.04	0.37	22.96	18	167	39	97	0.05	0.0	0.365	0.042	0	0	0	20
PL.34718	PL.58181	B	#4 ACSR	7.48Y	124.6	0.00	0.38	5.18	4	38	9	97	0.00	0.0	0.394	0.029	32	7	2	3
PL.34764	PL.34718	B	#4 ACSR	7.48Y	124.6	0.00	0.38	0.83	1	6	1	99	0.00	0.0	0.410	0.016	6	1	1	1
PL.34765	PL.58181	B	#4 ACSR	7.48Y	124.6	0.03	0.40	16.70	13	122	28	97	0.02	0.0	0.406	0.040	33	8	5	14
PL.35966	PL.34765	B	#4 ACSR	7.47Y	124.6	0.03	0.43	12.11	9	88	20	98	0.02	0.0	0.469	0.063	0	0	0	9
PL.35967	PL.35966	B	#4 ACSR	7.47Y	124.6	0.01	0.45	10.93	8	80	18	98	0.01	0.0	0.508	0.039	35	8	3	7
PL.63320	PL.35967	B	#4 ACSR	7.47Y	124.5	0.01	0.45	6.18	5	45	10	98	0.00	0.0	0.537	0.030	0	0	0	4
PL.64445	PL.63320	B	#4 ACSR	7.47Y	124.5	0.00	0.45	6.18	5	45	10	98	0.00	0.0	0.537	0.000	12	3	1	4
PL.64446	PL.64445	B	#4 ACSR	7.47Y	124.5	0.00	0.46	4.59	4	33	8	97	0.00	0.0	0.562	0.025	0	0	0	3
PL.63321	PL.64446	B	#4 ACSR	7.47Y	124.5	0.00	0.46	4.59	4	33	8	97	0.00	0.0	0.601	0.039	33	8	3	3
PL.63319	PL.63321	B	#4 ACSR	7.47Y	124.5	0.00	0.46	0.00	0	0	0	100	0.00	0.0	0.620	0.019	0	0	0	0
PL.35410	PL.35966	B	#4 ACSR	7.47Y	124.6	0.00	0.43	1.19	1	9	2	98	0.00	0.0	0.506	0.037	9	2	2	2
PL.34863	PL.58181	B	#4 ACSR	7.48Y	124.6	0.00	0.37	1.08	1	8	2	97	0.00	0.0	0.393	0.027	8	2	3	3
PL.34321	PL.55984	ABC	336 MCM AC	7.47Y	124.6	0.10	0.43	237.93	46	4992	1895	93	2.43	0.0	0.372	0.051	13	3	1	435
PL.34322	PL.34321	ABC	336 MCM AC	7.47Y	124.5	0.04	0.47	237.34	46	4976	1886	94	1.02	0.0	0.394	0.022	0	0	0	434
PL.34323	PL.34322	ABC	336 MCM AC	7.47Y	124.5	0.07	0.54	219.38	42	4579	1792	93	1.56	0.0	0.433	0.039	19	4	5	390
PL.34324	PL.34323	ABC	336 MCM AC	7.46Y	124.3	0.18	0.73	218.53	42	4559	1784	93	4.07	0.1	0.534	0.102	30	7	2	385
PL.35060	PL.34324	A	#4 ACSR	7.46Y	124.3	0.00	0.73	0.00	0	0	0	100	0.00	0.0	0.535	0.000	0	0	0	0

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

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

Units Displayed In Volts																				
-Base Voltage:120.0-																				
Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Length (mi)	-----Element-----		Cons On	Cons Thru
PD.5808	PL.35060	A	75QA	7.46Y	124.3	0.00	0.73	0.00	0	0	0	100	0.00	0.0	0.535	0.000	0	0	0	0
PL.34633	PD.5808	A	#4 ACSR	7.46Y	124.3	0.00	0.73	0.00	0	0	0	100	0.00	0.0	0.554	0.019	0	0	0	0
PL.35241	PL.34324	ABC	336 MCM AC	7.45Y	124.1	0.19	0.92	217.18	42	4525	1767	93	4.17	0.1	0.639	0.105	0	0	0	383
PL.34824	PL.35241	C	#4 ACSR	7.45Y	124.1	0.00	0.92	3.26	3	24	5	98	0.00	0.0	0.643	0.003	0	0	0	2
PD.5809	PL.34824	C	75QA	7.45Y	124.1	0.00	0.92	3.26	4	24	5	98	0.00	0.0	0.643	0.003	0	0	0	2
PL.36340	PD.5809	C	#4 ACSR	7.44Y	124.1	0.01	0.92	3.26	3	24	5	98	0.00	0.0	0.763	0.121	24	5	2	2
PL.35242	PL.35241	ABC	336 MCM AC	7.44Y	124.0	0.07	0.98	216.10	42	4497	1752	93	1.44	0.0	0.676	0.037	7	2	1	381
PL.34601	PL.35242	ABC	336 MCM AC	7.44Y	123.9	0.08	1.06	214.52	41	4461	1741	93	1.66	0.0	0.719	0.043	0	0	0	378
PL.72523	PL.34601	ABC	336 MCM AC	7.43Y	123.9	0.06	1.12	214.52	41	4460	1737	93	1.29	0.0	0.752	0.033	16	4	4	378
PL.35746	PL.72523	ABC	336 MCM AC	7.43Y	123.8	0.09	1.21	191.99	37	3995	1540	93	1.76	0.0	0.809	0.057	0	0	0	355
PL.36130	PL.35746	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	0.810	0.001	0	0	0	0
PD.5057	PL.36130	ABC	40QA	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	0.810	0.001	0	0	0	0
PL.36131	PD.5057	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.21	0.00	0	0	0	100	0.00	0.0	0.833	0.023	0	0	0	0
PL.34704	PL.35746	ABC	336 MCM AC	7.42Y	123.7	0.06	1.26	191.99	37	3993	1536	93	1.08	0.0	0.844	0.035	0	0	0	355
PL.34706	PL.34704	C	#1/0 ACSR	7.42Y	123.7	0.00	1.26	0.31	0	2	1	89	0.00	0.0	0.846	0.002	0	0	0	1
PD.5054	PL.34706	C	40QA	7.42Y	123.7	0.00	1.26	0.31	1	2	1	89	0.00	0.0	0.846	0.002	0	0	0	1
PL.34707	PD.5054	C	#1/0 ACSR	7.42Y	123.7	0.00	1.26	0.31	0	2	1	89	0.00	0.0	0.879	0.034	2	1	1	1
PL.34705	PL.34704	ABC	336 MCM AC	7.42Y	123.7	0.07	1.33	191.89	37	3990	1533	93	1.35	0.0	0.887	0.044	9	2	1	354
PL.33823	PL.34705	ABC	336 MCM AC	7.42Y	123.6	0.06	1.39	186.22	36	3873	1476	93	1.16	0.0	0.927	0.040	0	0	0	350
PL.33694	PL.33823	ABC	#1/0 ACSR	7.42Y	123.6	0.00	1.39	3.96	2	79	38	90	0.00	0.0	0.934	0.007	0	0	0	1
PL.35599	PL.33694	ABC	1/0 AL URD	7.42Y	123.6	0.00	1.39	3.96	2	79	38	90	0.00	0.0	0.935	0.001	0	0	0	1
PD.5688	PL.35599	ABC	40QA	7.42Y	123.6	0.00	1.39	3.96	10	79	38	90	0.00	0.0	0.935	0.001	0	0	0	1
PL.34280	PD.5688	ABC	1/0 AL URD	7.42Y	123.6	0.00	1.39	3.96	2	79	38	90	0.00	0.0	0.954	0.019	79	38	1	1
PL.34759	PL.33823	ABC	336 MCM AC	7.41Y	123.5	0.10	1.50	161.76	31	3376	1248	94	1.72	0.1	1.005	0.078	0	0	0	342
PL.34069	PL.34759	ABC	#3/0 ACSR	7.41Y	123.5	0.00	1.50	3.94	1	79	38	90	0.00	0.0	1.013	0.008	0	0	0	1
PL.33736	PL.34069	ABC	1/0 AL URD	7.41Y	123.5	0.00	1.50	3.94	2	79	38	90	0.00	0.0	1.041	0.028	79	38	1	1
PL.61112	PL.34759	ABC	336 MCM AC	7.40Y	123.3	0.20	1.70	157.84	30	3295	1206	94	3.32	0.1	1.163	0.158	0	0	0	341
PL.61113	PL.61112	B	#2 ACSR	7.40Y	123.3	0.00	1.70	0.00	0	0	0	100	0.00	0.0	1.165	0.002	0	0	0	0
PD.5824	PL.61113	B	75QA	7.40Y	123.3	0.00	1.70	0.00	0	0	0	100	0.00	0.0	1.165	0.002	0	0	0	0
PL.35817	PD.5824	B	#2 ACSR	7.40Y	123.3	0.00	1.70	0.00	0	0	0	100	0.00	0.0	1.198	0.033	0	0	0	0
PL.37150	PL.35817	B	#2 ACSR	7.40Y	123.3	0.00	1.70	0.00	0	0	0	100	0.00	0.0	1.461	0.263	0	0	0	0

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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.37151	PL.37150	B	#2 ACSR	7.40Y	123.3	0.00	1.70	0.00	0	0	0	100	0.00	0.0	1.642	0.180	0	0	0	0
PL.35627	PL.37151	B	#2 ACSR	7.40Y	123.3	0.00	1.70	0.00	0	0	0	100	0.00	0.0	2.377	0.736	0	0	0	0
PL.64793	PL.61112	ABC	336 MCM AC	7.32Y	122.0	1.28	2.98	157.84	30	3292	1198	94	21.02	0.6	2.165	1.001	0	0	0	341
PD.9560-A	PL.64793	ABC	Closed	7.32Y	122.0	0.00	2.98	157.84	0	3271	1149	94	0.00	0.0	2.165	1.001	0	0	0	341
PD.9560-B	PD.9560-A	ABC	Closed	7.32Y	122.0	0.00	2.98	157.84	0	3271	1149	94	0.00	0.0	2.165	1.001	0	0	0	341
PL.64794	PD.9560-B	ABC	336 MCM AC	7.28Y	121.4	0.64	3.61	157.84	30	3271	1149	94	10.56	0.3	2.668	0.503	0	0	0	341
PL.61114	PL.64794	ABC	#3/0 ACSR	7.28Y	121.4	0.00	3.62	157.84	53	3260	1125	95	0.05	0.0	2.669	0.001	0	0	0	341
RG.41	PL.61114	ABC	250kva	7.47Y	124.5	-3.11	0.51	157.84	48	3260	1124	95	percent Boost= 2.50 Tap= 4.0							341
PL.37175	RG.41	ABC	#3/0 ACSR	7.46Y	124.4	0.14	0.64	153.90	51	3260	1124	95	2.73	0.1	2.738	0.069	0	0	0	341
PL.52784	PL.37175	ABC	#3/0 ACSR	7.43Y	123.9	0.49	1.14	153.90	51	3258	1121	95	9.62	0.3	2.979	0.242	0	0	0	341
PL.64791	PL.52784	ABC	336 MCM AC	7.43Y	123.9	0.01	1.14	16.63	3	359	92	97	0.01	0.0	3.028	0.048	0	0	0	54
PD.9559-A	PL.64791	ABC	Closed	7.43Y	123.9	0.00	1.14	16.63	0	359	92	97	0.00	0.0	3.028	0.048	0	0	0	54
PD.9559-B	PD.9559-A	ABC	Closed	7.43Y	123.9	0.00	1.14	16.63	0	359	92	97	0.00	0.0	3.028	0.048	0	0	0	54
PL.64792	PD.9559-B	ABC	336 MCM AC	7.43Y	123.9	0.00	1.14	16.63	3	359	92	97	0.00	0.0	3.044	0.016	0	0	0	54
PL.34715	PL.64792	ABC	336 MCM AC	7.43Y	123.9	0.00	1.15	16.63	3	359	92	97	0.01	0.0	3.069	0.025	0	0	0	54
PL.33903	PL.34715	ABC	336 MCM AC	7.43Y	123.8	0.00	1.15	7.70	1	165	47	96	0.00	0.0	3.143	0.074	0	0	0	14
PL.34815	PL.33903	ABC	#4 ACSR	7.43Y	123.8	0.00	1.15	0.00	0	0	0	100	0.00	0.0	3.144	0.002	0	0	0	0
PD.5060	PL.34815	ABC	50QA	7.43Y	123.8	0.00	1.15	0.00	0	0	0	100	0.00	0.0	3.144	0.002	0	0	0	0
PL.34816	PD.5060	ABC	#4 ACSR	7.43Y	123.8	0.00	1.15	0.00	0	0	0	100	0.00	0.0	3.158	0.014	0	0	0	0
PL.64142	PL.33903	ABC	336 MCM AC	7.43Y	123.8	0.00	1.16	7.70	1	165	47	96	0.00	0.0	3.207	0.064	0	0	0	14
PL.64141	PL.64142	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.16	7.70	3	165	47	96	0.01	0.0	3.263	0.056	6	1	1	14
PL.64144	PL.64141	C	#4 ACSR	7.43Y	123.8	0.01	1.17	6.26	5	45	10	98	0.00	0.0	3.302	0.039	45	10	1	1
PL.64138	PL.64141	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.17	5.33	2	114	35	96	0.00	0.0	3.285	0.022	0	0	0	11
PL.64139	PL.64138	C	#4 ACSR	7.43Y	123.8	0.00	1.17	2.31	2	17	4	97	0.00	0.0	3.326	0.041	0	0	0	1
PL.64137	PL.64139	C	#4 ACSR	7.43Y	123.8	0.00	1.17	2.31	2	17	4	97	0.00	0.0	3.360	0.034	17	4	1	1
PL.64140	PL.64138	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.17	4.56	2	97	31	95	0.01	0.0	3.392	0.106	0	0	0	10
PL.64136	PL.64140	ABC	#1/0 ACSR	7.43Y	123.8	0.01	1.18	4.56	2	97	31	95	0.00	0.0	3.472	0.080	0	0	0	10
PL.36022	PL.64136	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.18	1.93	1	39	18	91	0.00	0.0	3.514	0.042	0	0	0	2
PL.36023	PL.36022	ABC	#1/0 ACSR	7.43Y	123.8	0.00	1.19	1.69	1	34	16	90	0.00	0.0	3.604	0.090	0	0	0	1
PL.36559	PL.36023	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.19	1.69	1	34	16	90	0.00	0.0	3.605	0.001	0	0	0	1
PD.5686	PL.36559	ABC	50QA	7.43Y	123.8	0.00	1.19	1.69	3	34	16	90	0.00	0.0	3.605	0.001	0	0	0	1

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PL.36560	PD.5686	ABC	1/0 AL URD	7.43Y	123.8	0.00	1.19	1.69	1	34	16	90	0.00	0.0	3.645	0.040	34	16	1	1
PL.36024	PL.36022	A	#2 ACSR	7.43Y	123.8	0.00	1.18	0.74	0	5	1	98	0.00	0.0	3.516	0.002	0	0	0	1
PD.5094	PL.36024	A	65QA	7.43Y	123.8	0.00	1.18	0.74	0	5	1	98	0.00	0.0	3.516	0.002	0	0	0	1
PL.36025	PD.5094	A	#2 ACSR	7.43Y	123.8	0.00	1.18	0.74	0	5	1	98	0.00	0.0	3.550	0.034	5	1	1	1
PL.35821	PL.64136	A	#4 ACSR	7.43Y	123.8	0.00	1.18	7.94	6	57	13	97	0.00	0.0	3.478	0.007	30	7	2	8
PL.35822	PL.35821	A	#4 ACSR	7.43Y	123.8	0.01	1.19	3.77	3	27	6	98	0.00	0.0	3.553	0.074	3	1	4	6
PL.35537	PL.35822	A	#4 ACSR	7.43Y	123.8	0.00	1.20	3.42	3	25	6	97	0.00	0.0	3.582	0.029	25	6	2	2
PL.64145	PL.64141	A	#4 ACSR	7.43Y	123.8	0.00	1.16	0.02	0	0	0	100	0.00	0.0	3.272	0.009	0	0	1	1
PL.64143	PL.64142	ABC	336 MCM AC	7.43Y	123.8	0.00	1.16	0.00	0	0	0	100	0.00	0.0	3.262	0.055	0	0	0	0
PL.40483	PL.64143	ABC	336 MCM AC	7.43Y	123.8	0.00	1.16	0.00	0	0	0	100	0.00	0.0	3.303	0.042	0	0	0	0
PD.5886-A	PL.40483	ABC	Open	7.43Y	123.8	0.00	1.16	0.00	0	0	0	100	0.00	0.0	3.303	0.042	0	0	0	0
PL.34339	PL.33903	C	#4 ACSR	7.43Y	123.8	0.00	1.15	0.00	0	0	0	100	0.00	0.0	3.144	0.002	0	0	0	0
PD.5050	PL.34339	C	60QA	7.43Y	123.8	0.00	1.15	0.00	0	0	0	100	0.00	0.0	3.144	0.002	0	0	0	0
PL.33905	PD.5050	C	#4 ACSR	7.43Y	123.8	0.00	1.15	0.00	0	0	0	100	0.00	0.0	3.179	0.034	0	0	0	0
PL.33906	PL.33905	C	#4 ACSR	7.43Y	123.8	0.00	1.15	0.00	0	0	0	100	0.00	0.0	3.192	0.013	0	0	0	0
PL.35328	PL.33905	C	#2 ACSR	7.43Y	123.8	0.00	1.15	0.00	0	0	0	100	0.00	0.0	3.205	0.026	0	0	0	0
PL.34713	PL.34715	A	6 A (CWC)	7.43Y	123.9	0.00	1.15	21.91	16	159	37	97	0.00	0.0	3.072	0.003	0	0	0	38
PD.5834	PL.34713	A	50QA	7.43Y	123.9	0.00	1.15	21.91	44	159	37	97	0.00	0.0	3.072	0.003	0	0	0	38
PL.33907	PD.5834	A	6 A (CWC)	7.43Y	123.8	0.02	1.17	21.91	16	159	37	97	0.03	0.0	3.101	0.029	48	11	12	38
PL.35818	PL.33907	A	6 A (CWC)	7.43Y	123.8	0.01	1.19	15.25	11	110	25	98	0.01	0.0	3.132	0.031	89	20	20	26
PL.35819	PL.35818	A	6 A (CWC)	7.43Y	123.8	0.00	1.19	2.99	2	22	5	98	0.00	0.0	3.162	0.029	14	3	1	6
PL.35820	PL.35819	A	6 A (CWC)	7.43Y	123.8	0.00	1.19	1.05	1	8	2	97	0.00	0.0	3.171	0.010	8	2	5	5
PL.33904	PL.34715	A	#4 ACSR	7.43Y	123.9	0.00	1.15	4.91	4	36	8	98	0.00	0.0	3.071	0.002	0	0	0	2
PD.5835	PL.33904	A	30T	7.43Y	123.9	0.00	1.15	4.91	0	36	8	98	0.00	0.0	3.071	0.002	0	0	0	2
PL.33917	PD.5835	A	#4 ACSR	7.43Y	123.8	0.01	1.16	4.91	4	36	8	98	0.00	0.0	3.119	0.048	0	0	1	2
PL.33918	PL.33917	A	#4 ACSR	7.43Y	123.8	0.01	1.16	4.90	4	36	8	98	0.00	0.0	3.175	0.056	36	8	1	1
PL.52785	PL.52784	ABC	#1/0 ACSR	7.43Y	123.8	0.09	1.23	137.32	60	2889	1015	94	1.78	0.1	3.015	0.035	0	0	1	287
PL.35630	PL.52785	ABC	#1/0 ACSR	7.42Y	123.6	0.15	1.38	137.30	60	2886	1013	94	2.97	0.1	3.074	0.059	0	0	0	286
PL.34728	PL.35630	ABC	#1/0 ACSR	7.42Y	123.6	0.02	1.40	39.38	17	789	382	90	0.10	0.0	3.099	0.025	0	0	0	1
PL.52774	PL.34728	ABC	#1/0 ACSR	7.42Y	123.6	0.00	1.40	39.38	17	789	382	90	0.02	0.0	3.111	0.012	789	382	1	1
PL.52775	PL.52774	ABC	1/0 AL URD	7.42Y	123.6	0.00	1.40	0.00	0	0	0	100	0.00	0.0	3.189	0.078	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 1

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.36300	PL.35630	ABC	#4 ACSR	7.42Y	123.6	0.00	1.38	13.87	11	278	135	90	0.00	0.0	3.076	0.002	0	0	0	5
PD.5044	PL.36300	ABC	50QA	7.42Y	123.6	0.00	1.38	13.87	28	278	135	90	0.00	0.0	3.076	0.002	0	0	0	5
PL.36301	PD.5044	ABC	#4 ACSR	7.42Y	123.6	0.01	1.39	13.87	11	278	135	90	0.03	0.0	3.098	0.023	0	0	0	5
PL.35686	PL.36301	ABC	#4 ACSR	7.42Y	123.6	0.00	1.40	7.43	6	149	72	90	0.00	0.0	3.132	0.034	149	72	2	2
PL.34244	PL.36301	ABC	#4 ACSR	7.42Y	123.6	0.02	1.41	6.44	5	129	62	90	0.02	0.0	3.177	0.079	0	0	0	3
PL.34589	PL.34244	A	#4 ACSR	7.41Y	123.6	0.02	1.43	12.88	10	86	42	90	0.01	0.0	3.204	0.027	0	0	0	1
PL.34910	PL.34589	A	2 AL URD	7.41Y	123.6	0.00	1.43	12.88	7	86	42	90	0.00	0.0	3.206	0.002	0	0	0	1
PD.5045	PL.34910	A	40QA	7.41Y	123.6	0.00	1.43	12.88	32	86	42	90	0.00	0.0	3.206	0.002	0	0	0	1
PL.34859	PD.5045	A	2 AL URD	7.41Y	123.6	0.01	1.43	12.88	7	86	42	90	0.00	0.0	3.233	0.027	86	42	1	1
PL.33740	PL.34244	ABC	#4 ACSR	7.42Y	123.6	0.00	1.41	2.15	2	43	21	90	0.00	0.0	3.218	0.040	37	18	1	2
PL.34058	PL.33740	ABC	#4 ACSR	7.42Y	123.6	0.00	1.41	0.30	0	6	3	89	0.00	0.0	3.224	0.006	0	0	0	1
PL.34096	PL.34058	ABC	1/0 AL URD	7.42Y	123.6	0.00	1.41	0.30	0	6	3	89	0.00	0.0	3.283	0.059	6	3	1	1
PL.34900	PL.35630	ABC	#1/0 ACSR	7.41Y	123.5	0.09	1.47	84.61	37	1817	494	96	1.08	0.1	3.131	0.057	0	0	0	280
PL.36303	PL.34900	ABC	#1/0 ACSR	7.41Y	123.5	0.00	1.47	84.61	37	1816	493	97	0.04	0.0	3.133	0.002	0	0	0	280
PD.5860	PL.36303	ABC	240VWE	7.41Y	123.5	0.00	1.47	84.61	0	1816	493	97	0.00	0.0	3.133	0.002	0	0	0	280
PL.36304	PD.5860	ABC	#1/0 ACSR	7.41Y	123.5	0.06	1.53	84.61	37	1816	493	97	0.74	0.0	3.172	0.039	0	0	0	280
PL.34772	PL.36304	ABC	#1/0 ACSR	7.40Y	123.3	0.14	1.66	84.61	37	1815	492	97	1.72	0.1	3.262	0.090	0	0	0	280
PL.34238	PL.34772	ABC	#1/0 ACSR	7.39Y	123.2	0.10	1.76	77.43	34	1664	431	97	1.11	0.1	3.332	0.070	0	0	0	272
PL.33852	PL.34238	ABC	#4 ACSR	7.39Y	123.2	0.01	1.77	19.70	15	422	114	97	0.04	0.0	3.349	0.017	38	18	5	101
PL.33853	PL.33852	ABC	#4 ACSR	7.39Y	123.2	0.01	1.78	17.85	14	384	96	97	0.02	0.0	3.358	0.010	0	0	0	96
PL.35073	PL.33853	C	2/0 AL URD	7.39Y	123.2	0.00	1.78	30.59	17	219	58	97	0.00	0.0	3.358	0.000	0	0	0	49
PD.5046	PL.35073	C	50QA	7.39Y	123.2	0.00	1.78	30.59	61	219	58	97	0.00	0.0	3.358	0.000	0	0	0	49
PL.34714	PD.5046	C	2/0 AL URD	7.39Y	123.2	0.01	1.79	30.59	17	219	58	97	0.01	0.0	3.373	0.015	127	37	29	49
PL.35824	PL.34714	C	2/0 AL URD	7.39Y	123.2	0.01	1.80	12.65	7	91	21	97	0.00	0.0	3.421	0.048	51	12	12	20
PL.35825	PL.35824	C	2/0 AL URD	7.39Y	123.2	0.00	1.80	5.57	3	40	9	98	0.00	0.0	3.488	0.067	40	9	8	8
PL.36956	PL.35825	C	1/0 AL URD	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	3.488	0.000	0	0	0	0
PL.33854	PL.33853	A	2 AL URD	7.39Y	123.2	0.00	1.78	22.98	13	165	38	97	0.00	0.0	3.358	0.000	0	0	0	47
PD.5846	PL.33854	A	50QA	7.39Y	123.2	0.00	1.78	22.98	46	165	38	97	0.00	0.0	3.358	0.000	0	0	0	47
PL.36197	PD.5846	A	2 AL URD	7.39Y	123.2	0.05	1.83	22.98	13	165	38	97	0.06	0.0	3.441	0.082	70	16	13	47
PL.36952	PL.36197	A	2 AL URD	7.39Y	123.2	0.01	1.85	13.29	8	96	22	97	0.01	0.0	3.474	0.034	62	14	22	34
PL.36954	PL.36952	A	2 AL URD	7.39Y	123.2	0.00	1.85	4.64	3	33	8	97	0.00	0.0	3.513	0.039	33	8	12	12

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 1

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.36955	PL.36954	A	2 AL URD	7.39Y	123.2	0.00	1.85	0.00	0	0	0	100	0.00	0.0	3.571	0.058	0	0	0	0
PL.35035	PL.34238	ABC	#1/0 ACSR	7.39Y	123.2	0.01	1.77	57.74	25	1241	316	97	0.10	0.0	3.342	0.011	0	0	0	171
PL.34559	PL.35035	ABC	#4 ACSR	7.39Y	123.2	0.00	1.77	0.28	0	6	1	99	0.00	0.0	3.344	0.001	0	0	0	3
PD.5047	PL.34559	ABC	50QA	7.39Y	123.2	0.00	1.77	0.28	1	6	1	99	0.00	0.0	3.344	0.001	0	0	0	3
PL.34877	PD.5047	ABC	#4 ACSR	7.39Y	123.2	0.00	1.77	0.28	0	6	1	99	0.00	0.0	3.352	0.008	6	1	3	3
PL.34941	PL.34877	ABC	#4 ACSR	7.39Y	123.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	3.417	0.066	0	0	0	0
PL.35072	PL.34941	ABC	#4 ACSR	7.39Y	123.2	0.00	1.77	0.00	0	0	0	100	0.00	0.0	3.525	0.108	0	0	0	0
PL.34479	PL.35035	ABC	#1/0 ACSR	7.39Y	123.2	0.05	1.82	55.98	24	1205	300	97	0.43	0.0	3.394	0.051	0	0	0	166
PL.33845	PL.34479	C	6 A (CWC)	7.39Y	123.2	0.00	1.83	22.91	16	165	38	97	0.00	0.0	3.396	0.002	0	0	0	28
PD.5049	PL.33845	C	50QA	7.39Y	123.2	0.00	1.83	22.91	46	165	38	97	0.00	0.0	3.396	0.002	0	0	0	28
PL.55986	PD.5049	C	6 A (CWC)	7.39Y	123.2	0.02	1.85	22.91	16	165	38	97	0.02	0.0	3.417	0.021	27	6	4	28
PL.55985	PL.55986	C	6 A (CWC)	7.39Y	123.1	0.03	1.88	19.21	14	138	32	97	0.03	0.0	3.452	0.035	0	0	0	24
PL.34898	PL.55985	C	6 A (CWC)	7.39Y	123.1	0.00	1.88	3.74	3	27	6	98	0.00	0.0	3.471	0.018	27	6	5	5
PL.34942	PL.55985	C	6 A (CWC)	7.39Y	123.1	0.02	1.90	15.47	11	111	26	97	0.02	0.0	3.488	0.036	9	2	4	19
PL.34665	PL.34942	C	6 A (CWC)	7.38Y	123.1	0.03	1.93	14.17	10	102	24	97	0.02	0.0	3.531	0.043	10	2	1	15
PL.34664	PL.34665	C	6 A (CWC)	7.38Y	123.0	0.03	1.95	12.83	9	92	21	97	0.02	0.0	3.590	0.059	33	8	5	14
PL.34663	PL.34664	C	6 A (CWC)	7.38Y	123.0	0.01	1.96	8.23	6	59	14	97	0.00	0.0	3.613	0.023	0	0	0	9
PL.34662	PL.34663	C	6 A (CWC)	7.38Y	123.0	0.01	1.97	8.23	6	59	14	97	0.00	0.0	3.641	0.028	0	0	3	9
PL.35823	PL.34662	C	6 A (CWC)	7.38Y	123.0	0.01	1.99	8.23	6	59	14	97	0.01	0.0	3.681	0.040	12	3	1	6
PL.33855	PL.35823	C	6 A (CWC)	7.38Y	123.0	0.00	1.99	4.10	3	29	7	97	0.00	0.0	3.701	0.020	0	0	1	4
PL.33856	PL.33855	C	6 A (CWC)	7.38Y	123.0	0.00	1.99	4.03	3	29	7	97	0.00	0.0	3.719	0.018	29	7	3	3
PL.34326	PL.35823	C	6 A (CWC)	7.38Y	123.0	0.00	1.99	2.51	2	18	4	98	0.00	0.0	3.728	0.047	18	4	1	1
PL.35231	PL.34479	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.84	48.35	21	1040	261	97	0.15	0.0	3.418	0.024	10	2	1	138
PL.35232	PL.35231	ABC	#1/0 ACSR	7.39Y	123.1	0.02	1.86	46.55	20	1002	249	97	0.11	0.0	3.437	0.019	0	0	0	135
PL.35236	PL.35232	ABC	#1/0 ACSR	7.39Y	123.1	0.00	1.86	46.55	20	1001	249	97	0.00	0.0	3.438	0.001	0	0	0	135
PL.35074	PL.35236	ABC	#1/0 ACSR	7.39Y	123.1	0.05	1.91	46.55	20	1001	249	97	0.35	0.0	3.498	0.061	14	3	1	135
PL.36454	PL.35074	ABC	#1/0 ACSR	7.38Y	123.0	0.06	1.97	44.82	19	964	240	97	0.40	0.0	3.573	0.075	0	0	0	130
PL.37077	PL.36454	ABC	#1/0 ACSR	7.38Y	123.0	0.03	2.00	43.85	19	942	234	97	0.17	0.0	3.606	0.032	0	0	1	126
PL.62897	PL.37077	ABC	#1/0 ACSR	7.37Y	122.8	0.22	2.21	43.82	19	942	234	97	1.44	0.2	3.887	0.281	0	0	0	125
PL.62899	PL.62897	C	6 A (CWC)	7.37Y	122.8	0.00	2.22	23.54	17	169	39	97	0.01	0.0	3.891	0.005	0	0	0	24
PD.9444	PL.62899	C	30T	7.37Y	122.8	0.00	2.22	23.54	0	169	39	97	0.00	0.0	3.891	0.005	0	0	0	24

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Balanced Voltage Drop Report
Source: West London 1

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.57319	PD.9444	C	6 A (CWC)	7.36Y	122.7	0.04	2.25	23.54	17	169	39	97	0.04	0.0	3.926	0.035	11	3	2	24
PL.34613	PL.57319	C	6 A (CWC)	7.36Y	122.7	0.03	2.29	22.01	16	158	37	97	0.04	0.0	3.960	0.034	8	2	1	22
PL.34614	PL.34613	C	6 A (CWC)	7.36Y	122.7	0.04	2.33	20.94	15	150	35	97	0.04	0.0	4.004	0.044	11	2	1	21
PL.52143	PL.34614	C	6 A (CWC)	7.36Y	122.7	0.01	2.33	5.73	4	41	9	98	0.00	0.0	4.031	0.027	12	3	1	4
PL.52144	PL.52143	C	6 A (CWC)	7.36Y	122.7	0.01	2.35	4.12	3	30	7	97	0.00	0.0	4.106	0.075	0	0	0	3
PL.52146	PL.52144	C	6 A (CWC)	7.36Y	122.6	0.02	2.36	4.12	3	30	7	97	0.00	0.0	4.195	0.089	0	0	0	3
PL.52145	PL.52146	C	6 A (CWC)	7.36Y	122.6	0.01	2.37	1.96	1	14	3	98	0.00	0.0	4.288	0.094	0	0	0	1
PL.46858	PL.52145	C	#2 ACSR	7.36Y	122.6	0.00	2.37	1.96	1	14	3	98	0.00	0.0	4.324	0.036	14	3	1	1
PL.64218	PL.52145	C	6 A (CWC)	7.36Y	122.6	0.00	2.37	0.00	0	0	0	100	0.00	0.0	4.290	0.001	0	0	0	0
PL.52147	PL.52146	C	6 A (CWC)	7.36Y	122.6	0.00	2.37	2.15	2	15	4	97	0.00	0.0	4.260	0.066	15	4	2	2
PL.36957	PL.34614	C	6 A (CWC)	7.36Y	122.6	0.05	2.38	13.70	10	98	23	97	0.03	0.0	4.087	0.083	11	2	4	16
PL.36958	PL.36957	C	6 A (CWC)	7.36Y	122.6	0.01	2.38	10.59	8	76	18	97	0.00	0.0	4.106	0.019	14	3	2	11
PL.55987	PL.36958	C	6 A (CWC)	7.36Y	122.6	0.00	2.39	4.94	4	35	8	97	0.00	0.0	4.122	0.016	20	5	2	5
PL.55988	PL.55987	C	6 A (CWC)	7.36Y	122.6	0.00	2.39	0.95	1	7	2	96	0.00	0.0	4.153	0.030	7	2	2	2
PL.55989	PL.55987	C	6 A (CWC)	7.36Y	122.6	0.00	2.39	1.14	1	8	2	97	0.00	0.0	4.174	0.052	8	2	1	1
PL.36959	PL.36958	C	6 A (CWC)	7.36Y	122.6	0.00	2.39	3.63	3	26	6	97	0.00	0.0	4.141	0.035	15	3	3	4
PL.36960	PL.36959	C	6 A (CWC)	7.36Y	122.6	0.00	2.39	1.52	1	11	3	96	0.00	0.0	4.176	0.035	11	3	1	1
PL.33384	PL.36957	C	6 A (CWC)	7.36Y	122.6	0.00	2.38	1.61	1	12	3	97	0.00	0.0	4.109	0.022	12	3	1	1
PL.62896	PL.62897	C	#4 ACSR	7.37Y	122.8	0.00	2.21	1.06	1	8	2	97	0.00	0.0	3.890	0.004	0	0	0	2
PD.5036	PL.62896	C	50QA	7.37Y	122.8	0.00	2.21	1.06	2	8	2	97	0.00	0.0	3.890	0.004	0	0	0	2
PL.36953	PD.5036	C	#4 ACSR	7.37Y	122.8	0.00	2.22	1.06	1	8	2	97	0.00	0.0	3.933	0.043	8	2	2	2
PL.62898	PL.62897	ABC	#1/0 ACSR	7.36Y	122.7	0.04	2.26	35.63	15	764	192	97	0.24	0.0	3.958	0.071	8	2	1	99
PL.52346	PL.62898	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.27	35.24	15	755	190	97	0.05	0.0	3.975	0.017	26	6	3	98
PL.57954	PL.52346	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.29	34.03	15	729	184	97	0.11	0.0	4.011	0.036	11	2	1	95
PL.57955	PL.57954	A	6 A (CWC)	7.36Y	122.7	0.00	2.29	5.68	4	41	9	98	0.00	0.0	4.012	0.001	0	0	0	13
PD.5801	PL.57955	A	50QA	7.36Y	122.7	0.00	2.29	5.68	11	41	9	98	0.00	0.0	4.012	0.001	0	0	0	13
PL.35195	PD.5801	A	6 A (CWC)	7.36Y	122.7	0.01	2.30	5.68	4	41	9	98	0.00	0.0	4.061	0.050	0	0	1	13
PL.36345	PL.35195	A	6 A (CWC)	7.36Y	122.7	0.00	2.31	1.36	1	10	2	98	0.00	0.0	4.099	0.038	10	2	4	4
PL.33902	PL.35195	A	6 A (CWC)	7.36Y	122.7	0.01	2.31	4.32	3	31	7	98	0.00	0.0	4.097	0.035	9	2	1	8
PL.35194	PL.33902	A	6 A (CWC)	7.36Y	122.7	0.00	2.31	3.10	2	22	5	98	0.00	0.0	4.113	0.016	22	5	7	7
PL.57956	PL.57954	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.31	31.63	14	677	172	97	0.10	0.0	4.049	0.038	0	0	0	81

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 1

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.57957	PL.57956	ABC	#1/0 ACSR	7.36Y	122.7	0.01	2.32	31.63	14	677	172	97	0.04	0.0	4.067	0.017	19	6	3	81
PL.57953	PL.57957	ABC	#1/0 ACSR	7.36Y	122.7	0.02	2.34	30.76	13	659	166	97	0.08	0.0	4.098	0.031	0	0	0	78
PL.34099	PL.57953	ABC	#1/0 ACSR	7.36Y	122.6	0.02	2.36	30.76	13	659	166	97	0.09	0.0	4.132	0.034	0	0	0	78
PL.61130	PL.34099	C	#1/0 ACSR	7.36Y	122.6	0.00	2.36	0.83	0	6	1	99	0.00	0.0	4.136	0.004	0	0	0	1
PD.9260	PL.61130	C	20T	7.36Y	122.6	0.00	2.36	0.83	0	6	1	99	0.00	0.0	4.136	0.004	0	0	0	1
PL.61131	PD.9260	C	#1/0 ACSR	7.36Y	122.6	0.00	2.36	0.83	0	6	1	99	0.00	0.0	4.160	0.025	6	1	1	1
PL.36341	PL.34099	A	#2 ACSR	7.36Y	122.6	0.00	2.36	0.82	0	6	1	99	0.00	0.0	4.133	0.001	0	0	0	1
PD.5709	PL.36341	A	60QA	7.36Y	122.6	0.00	2.36	0.82	1	6	1	99	0.00	0.0	4.133	0.001	0	0	0	1
PL.36342	PD.5709	A	#2 ACSR	7.36Y	122.6	0.00	2.36	0.82	0	6	1	99	0.00	0.0	4.162	0.029	6	1	1	1
PL.34825	PL.34099	ABC	#1/0 ACSR	7.36Y	122.6	0.03	2.38	17.88	8	381	101	97	0.07	0.0	4.216	0.084	18	4	6	41
PL.34340	PL.34825	ABC	#1/0 ACSR	7.36Y	122.6	0.02	2.40	17.04	7	363	97	97	0.04	0.0	4.268	0.052	0	0	0	35
PL.36778	PL.34340	ABC	#1/0 ACSR	7.36Y	122.6	0.01	2.41	16.14	7	344	93	97	0.02	0.0	4.291	0.023	0	0	0	32
PL.34087	PL.36778	ABC	#1/0 ACSR	7.35Y	122.6	0.01	2.42	13.31	6	283	79	96	0.03	0.0	4.350	0.060	0	0	0	27
PL.35953	PL.34087	ABC	#1/0 ACSR	7.35Y	122.6	0.01	2.43	13.31	6	283	79	96	0.02	0.0	4.399	0.048	0	0	0	27
PL.35954	PL.35953	A	#2 ACSR	7.35Y	122.6	0.00	2.43	1.70	1	12	3	97	0.00	0.0	4.401	0.002	0	0	0	1
PD.5095	PL.35954	A	60QA	7.35Y	122.6	0.00	2.43	1.70	3	12	3	97	0.00	0.0	4.401	0.002	0	0	0	1
PL.35955	PD.5095	A	#2 ACSR	7.35Y	122.6	0.00	2.43	1.70	1	12	3	97	0.00	0.0	4.416	0.015	12	3	1	1
PL.35956	PL.35953	ABC	#1/0 ACSR	7.35Y	122.6	0.01	2.44	12.74	6	271	76	96	0.02	0.0	4.438	0.040	0	0	0	26
PL.35957	PL.35956	C	#4 ACSR	7.35Y	122.6	0.00	2.44	2.72	2	19	4	98	0.00	0.0	4.440	0.002	0	0	0	2
PD.5845	PL.35957	C	60QA	7.35Y	122.6	0.00	2.44	2.72	5	19	4	98	0.00	0.0	4.440	0.002	0	0	0	2
PL.53923	PD.5845	C	#4 ACSR	7.35Y	122.6	0.01	2.45	2.72	2	19	4	98	0.00	0.0	4.497	0.056	0	0	0	2
PL.53924	PL.53923	C	#4 ACSR	7.35Y	122.5	0.01	2.46	2.72	2	19	4	98	0.00	0.0	4.566	0.069	0	0	0	2
PL.53925	PL.53924	C	#4 ACSR	7.35Y	122.5	0.01	2.47	2.72	2	19	4	98	0.00	0.0	4.695	0.129	10	2	1	2
PL.53926	PL.53925	C	#2 ACSR	7.35Y	122.5	0.00	2.47	1.37	1	10	2	98	0.00	0.0	4.761	0.066	10	2	1	1
PL.35958	PL.35956	ABC	#1/0 ACSR	7.35Y	122.5	0.01	2.46	11.84	5	251	71	96	0.03	0.0	4.508	0.070	0	0	0	24
PL.35959	PL.35958	ABC	#1/0 ACSR	7.35Y	122.5	0.02	2.47	11.63	5	247	70	96	0.03	0.0	4.588	0.080	7	2	1	23
PL.53189	PL.35959	ABC	#1/0 ACSR	7.35Y	122.5	0.02	2.49	11.29	5	239	68	96	0.03	0.0	4.680	0.092	0	0	0	22
PL.53188	PL.53189	ABC	6 A (CWC)	7.35Y	122.5	0.00	2.49	7.59	5	160	50	95	0.00	0.0	4.681	0.000	0	0	0	13
PD.5175	PL.53188	ABC	60QA	7.35Y	122.5	0.00	2.49	7.59	13	160	50	95	0.00	0.0	4.681	0.000	0	0	0	13
PL.35909	PD.5175	ABC	6 A (CWC)	7.35Y	122.5	0.01	2.50	7.59	5	160	50	95	0.01	0.0	4.700	0.019	0	0	0	13
PL.53644	PL.35909	ABC	6 A (CWC)	7.35Y	122.5	0.01	2.51	7.59	5	160	50	95	0.01	0.0	4.730	0.031	0	0	0	13

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 1

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.53217	PL.53644	C	6 A (CWC)	7.35Y	122.4	0.06	2.57	15.10	11	108	25	97	0.05	0.0	4.820	0.090	0	0	0	12
PL.53857	PL.53217	C	#4 ACSR	7.34Y	122.4	0.03	2.60	9.10	7	65	15	97	0.02	0.0	4.897	0.076	0	0	0	8
PL.53860	PL.53857	C	#4 ACSR	7.34Y	122.4	0.00	2.60	0.00	0	0	0	100	0.00	0.0	4.930	0.033	0	0	0	0
PL.53861	PL.53857	C	#4 ACSR	7.34Y	122.4	0.01	2.61	2.89	2	21	5	97	0.00	0.0	5.027	0.131	10	2	1	2
PL.53862	PL.53861	C	#4 ACSR	7.34Y	122.4	0.00	2.61	1.42	1	10	2	98	0.00	0.0	5.045	0.017	0	0	0	1
PL.53859	PL.53862	C	#4 ACSR	7.34Y	122.4	0.00	2.61	1.42	1	10	2	98	0.00	0.0	5.087	0.042	10	2	1	1
PL.57962	PL.53862	C	#4 ACSR	7.34Y	122.4	0.00	2.61	0.00	0	0	0	100	0.00	0.0	5.117	0.072	0	0	0	0
PL.53858	PL.53857	C	#2 ACSR	7.34Y	122.4	0.01	2.61	4.55	3	33	8	97	0.00	0.0	4.973	0.076	9	2	1	5
PL.53854	PL.53858	C	#2 ACSR	7.34Y	122.4	0.00	2.61	3.23	2	23	5	98	0.00	0.0	5.037	0.064	12	3	2	4
PL.53855	PL.53854	C	#2 ACSR	7.34Y	122.4	0.00	2.61	1.50	1	11	2	98	0.00	0.0	5.075	0.038	11	2	2	2
PL.53856	PL.53857	C	#4 ACSR	7.34Y	122.4	0.00	2.60	1.66	1	12	3	97	0.00	0.0	4.965	0.069	12	3	1	1
PL.53954	PL.53217	C	6 A (CWC)	7.35Y	122.4	0.01	2.57	3.54	3	25	6	97	0.00	0.0	4.859	0.038	0	0	0	3
PL.53953	PL.53954	C	6 A (CWC)	7.35Y	122.4	0.00	2.58	1.35	1	10	2	98	0.00	0.0	4.932	0.074	0	0	0	2
PL.53719	PL.53953	C	6 A (CWC)	7.35Y	122.4	0.00	2.58	0.41	0	3	1	95	0.00	0.0	4.991	0.059	3	1	1	1
PL.53218	PL.53953	C	1/0 AL URD	7.35Y	122.4	0.00	2.58	0.94	1	7	2	96	0.00	0.0	4.965	0.032	7	2	1	1
PL.56777	PL.53954	C	#1/0 ACSR	7.35Y	122.4	0.00	2.57	2.19	1	16	4	97	0.00	0.0	4.862	0.003	0	0	0	1
PD.8329	PL.56777	C	20QA	7.35Y	122.4	0.00	2.57	2.19	11	16	4	97	0.00	0.0	4.862	0.003	0	0	0	1
PL.56739	PD.8329	C	#1/0 ACSR	7.35Y	122.4	0.00	2.58	2.19	1	16	4	97	0.00	0.0	4.875	0.013	16	4	1	1
PL.35581	PL.53217	C	#2 ACSR	7.35Y	122.4	0.00	2.57	2.45	1	18	4	98	0.00	0.0	4.915	0.095	18	4	1	1
PL.53643	PL.53644	ABC	6 A (CWC)	7.35Y	122.5	0.00	2.51	2.60	2	52	25	90	0.00	0.0	4.777	0.047	52	25	1	1
PL.53190	PL.53189	A	6 A (CWC)	7.35Y	122.5	0.00	2.49	4.43	3	32	7	98	0.00	0.0	4.681	0.000	0	0	0	2
PD.5140	PL.53190	A	50QA	7.35Y	122.5	0.00	2.49	4.43	9	32	7	98	0.00	0.0	4.681	0.000	0	0	0	2
PL.33846	PD.5140	A	6 A (CWC)	7.35Y	122.5	0.01	2.50	4.43	3	32	7	98	0.00	0.0	4.726	0.045	16	4	1	2
PL.33847	PL.33846	A	6 A (CWC)	7.35Y	122.5	0.00	2.50	2.26	2	16	4	97	0.00	0.0	4.743	0.018	16	4	1	1
PL.53192	PL.53189	ABC	#1/0 ACSR	7.35Y	122.5	0.00	2.49	2.23	1	48	11	97	0.00	0.0	4.734	0.053	0	0	0	7
PL.53193	PL.53192	ABC	#1/0 ACSR	7.35Y	122.5	0.00	2.50	2.23	1	48	11	97	0.00	0.0	4.773	0.040	0	0	0	7
PL.64443	PL.53193	C	6 A (CWC)	7.35Y	122.5	0.00	2.50	1.02	1	7	2	96	0.00	0.0	4.777	0.003	0	0	0	1
PD.9541	PL.64443	C	25T	7.35Y	122.5	0.00	2.50	1.02	0	7	2	96	0.00	0.0	4.777	0.003	0	0	0	1
PL.64444	PD.9541	C	6 A (CWC)	7.35Y	122.5	0.00	2.50	1.02	1	7	2	96	0.00	0.0	4.924	0.148	7	2	1	1
PL.34566	PL.64444	C	6 A (CWC)	7.35Y	122.5	0.00	2.50	0.00	0	0	0	100	0.00	0.0	4.973	0.048	0	0	0	0
PL.53191	PL.53193	C	6 A (CWC)	7.35Y	122.5	0.00	2.50	5.67	4	41	9	98	0.00	0.0	4.777	0.003	0	0	0	6

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Balanced Voltage Drop Report
Source: West London 1

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.5710	PL.53191	C	25T	7.35Y	122.5	0.00	2.50	5.67	0	41	9	98	0.00	0.0	4.777	0.003	0	0	0	6
PL.35964	PD.5710	C	6 A (CWC)	7.35Y	122.5	0.02	2.52	5.67	4	41	9	98	0.01	0.0	4.859	0.082	0	0	0	6
PL.34567	PL.35964	C	6 A (CWC)	7.35Y	122.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	5.116	0.257	0	0	0	4
PL.35962	PL.34567	C	6 A (CWC)	7.35Y	122.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	5.203	0.087	0	0	1	4
PL.36962	PL.35962	C	6 A (CWC)	7.35Y	122.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	5.280	0.077	0	0	0	2
PL.36963	PL.36962	C	6 A (CWC)	7.35Y	122.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	5.319	0.039	0	0	0	0
PL.36964	PL.36962	C	#4 ACSR	7.35Y	122.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	5.378	0.098	0	0	2	2
PL.36965	PL.36964	C	#4 ACSR	7.35Y	122.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	5.417	0.038	0	0	0	0
PL.35416	PL.35962	C	#4 ACSR	7.35Y	122.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	5.274	0.071	0	0	1	1
PL.36000	PL.35962	C	6 A (CWC)	7.35Y	122.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	5.256	0.053	0	0	0	0
PL.35246	PL.34567	C	6 A (CWC)	7.35Y	122.5	0.00	2.52	0.00	0	0	0	100	0.00	0.0	5.140	0.024	0	0	0	0
PL.53720	PL.35964	C	#4 ACSR	7.35Y	122.5	0.01	2.53	5.67	4	41	9	98	0.00	0.0	4.935	0.076	41	9	2	2
PL.35960	PL.35958	A	#4 ACSR	7.35Y	122.5	0.00	2.46	0.63	0	5	1	98	0.00	0.0	4.511	0.003	0	0	0	1
PD.5139	PL.35960	A	20T	7.35Y	122.5	0.00	2.46	0.63	0	5	1	98	0.00	0.0	4.511	0.003	0	0	0	1
PL.35961	PD.5139	A	#4 ACSR	7.35Y	122.5	0.00	2.46	0.63	0	5	1	98	0.00	0.0	4.539	0.029	5	1	1	1
PL.33848	PL.34087	C	#2 ACSR	7.35Y	122.6	0.00	2.42	0.00	0	0	0	100	0.00	0.0	4.351	0.001	0	0	0	0
PD.5759	PL.33848	C	60QA	7.35Y	122.6	0.00	2.42	0.00	0	0	0	100	0.00	0.0	4.351	0.001	0	0	0	0
PL.33851	PD.5759	C	#2 ACSR	7.35Y	122.6	0.00	2.42	0.00	0	0	0	100	0.00	0.0	4.370	0.019	0	0	0	0
PL.35951	PL.36778	C	6 A (CWC)	7.36Y	122.6	0.00	2.41	8.50	6	61	14	97	0.00	0.0	4.292	0.002	0	0	0	5
PD.5138	PL.35951	C	60QA	7.36Y	122.6	0.00	2.41	8.50	14	61	14	97	0.00	0.0	4.292	0.002	0	0	0	5
PL.35952	PD.5138	C	6 A (CWC)	7.36Y	122.6	0.01	2.41	8.50	6	61	14	97	0.00	0.0	4.307	0.015	0	0	0	5
PL.53632	PL.35952	C	#2 ACSR	7.36Y	122.6	0.00	2.41	0.00	0	0	0	100	0.00	0.0	4.325	0.018	0	0	0	0
PL.53633	PL.35952	C	6 A (CWC)	7.35Y	122.6	0.01	2.43	8.50	6	61	14	97	0.01	0.0	4.350	0.043	22	5	2	5
PL.53634	PL.53633	C	6 A (CWC)	7.35Y	122.6	0.01	2.44	5.47	4	39	9	97	0.00	0.0	4.405	0.055	15	4	1	3
PL.63014	PL.53634	C	#2 ACSR	7.35Y	122.6	0.00	2.44	3.31	2	24	5	98	0.00	0.0	4.431	0.027	0	0	0	2
PL.63015	PL.63014	C	#2 ACSR	7.35Y	122.6	0.00	2.44	3.31	2	24	5	98	0.00	0.0	4.474	0.043	11	3	1	2
PL.53641	PL.63015	C	#1/0 ACSR	7.35Y	122.6	0.00	2.45	1.73	1	12	3	97	0.00	0.0	4.542	0.068	12	3	1	1
PL.36779	PL.34340	C	#1/0 ACSR	7.36Y	122.6	0.00	2.40	2.70	1	19	4	98	0.00	0.0	4.270	0.002	0	0	0	3
PD.5802	PL.36779	C	60QA	7.36Y	122.6	0.00	2.40	2.70	5	19	4	98	0.00	0.0	4.270	0.002	0	0	0	3
PL.53631	PD.5802	C	#1/0 ACSR	7.36Y	122.6	0.00	2.40	2.70	1	19	4	98	0.00	0.0	4.288	0.018	19	4	3	3
PL.36343	PL.34099	ABC	#1/0 ACSR	7.36Y	122.6	0.00	2.36	12.33	5	265	61	97	0.00	0.0	4.133	0.001	0	0	0	35

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 1

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.5107	PL.36343	ABC	60QA	7.36Y	122.6	0.00	2.36	12.33	21	265	61	97	0.00	0.0	4.133	0.001	0	0	0	35
PL.36344	PD.5107	ABC	#1/0 ACSR	7.36Y	122.6	0.01	2.36	12.33	5	265	61	97	0.01	0.0	4.162	0.029	0	0	0	35
PL.52347	PL.36344	ABC	#1/0 ACSR	7.36Y	122.6	0.00	2.37	12.33	5	265	61	97	0.01	0.0	4.181	0.019	2	1	1	35
PL.52348	PL.52347	ABC	#1/0 ACSR	7.36Y	122.6	0.01	2.38	12.22	5	263	61	97	0.01	0.0	4.219	0.038	4	1	1	34
PL.34100	PL.52348	ABC	#1/0 ACSR	7.36Y	122.6	0.02	2.40	12.03	5	259	60	97	0.03	0.0	4.309	0.090	0	0	0	33
PL.57317	PL.34100	A	#1/0 ACSR	7.36Y	122.6	0.00	2.40	34.52	15	247	57	97	0.00	0.0	4.312	0.003	0	0	0	32
PD.8278	PL.57317	A	50T	7.36Y	122.6	0.00	2.40	34.52	0	247	57	97	0.00	0.0	4.312	0.003	0	0	0	32
PL.57318	PD.8278	A	#1/0 ACSR	7.36Y	122.6	0.01	2.41	34.52	15	247	57	97	0.01	0.0	4.324	0.012	15	4	2	32
PL.52294	PL.57318	A	#1/0 ACSR	7.35Y	122.6	0.03	2.44	32.37	14	232	54	97	0.05	0.0	4.369	0.045	16	4	3	30
PL.46229	PL.52294	A	#4 ACSR	7.35Y	122.5	0.07	2.51	30.09	23	216	50	97	0.12	0.1	4.426	0.057	11	3	1	27
PL.47188	PL.46229	A	#4 ACSR	7.35Y	122.4	0.04	2.55	26.80	21	192	44	97	0.05	0.0	4.459	0.033	8	2	1	25
PL.47190	PL.47188	A	#4 ACSR	7.35Y	122.4	0.01	2.56	5.59	4	40	9	98	0.00	0.0	4.507	0.048	13	3	1	4
PL.61096	PL.47190	A	#4 ACSR	7.35Y	122.4	0.00	2.56	3.84	3	27	6	98	0.00	0.0	4.536	0.029	27	6	3	3
PL.47187	PL.47188	A	#4 ACSR	7.35Y	122.4	0.01	2.56	20.05	15	143	33	97	0.01	0.0	4.472	0.013	0	0	0	20
PL.47186	PL.47187	A	#4 ACSR	7.35Y	122.4	0.02	2.58	16.48	13	118	27	97	0.02	0.0	4.499	0.027	9	2	1	18
PL.47185	PL.47186	A	#4 ACSR	7.34Y	122.4	0.01	2.59	15.25	12	109	25	97	0.01	0.0	4.515	0.016	17	4	5	17
PL.47184	PL.47185	A	#4 ACSR	7.34Y	122.4	0.03	2.62	12.81	10	92	21	97	0.02	0.0	4.579	0.064	13	3	2	12
PL.52295	PL.47184	A	#4 ACSR	7.34Y	122.4	0.01	2.63	10.99	8	79	18	98	0.00	0.0	4.597	0.018	13	3	1	10
PL.52296	PL.52295	A	#4 ACSR	7.34Y	122.4	0.01	2.64	5.48	4	39	9	97	0.00	0.0	4.640	0.043	0	0	0	7
PL.47028	PL.52296	A	#4 ACSR	7.34Y	122.4	0.00	2.65	5.48	4	39	9	97	0.00	0.0	4.662	0.022	39	9	7	7
PL.52297	PL.52295	A	#4 ACSR	7.34Y	122.4	0.01	2.64	3.76	3	27	6	98	0.00	0.0	4.631	0.034	0	0	0	2
PL.46318	PL.52297	A	#4 ACSR	7.34Y	122.4	0.00	2.64	3.76	3	27	6	98	0.00	0.0	4.677	0.046	27	6	2	2
PL.52142	PL.52297	A	#4 ACSR	7.34Y	122.4	0.00	2.64	0.00	0	0	0	100	0.00	0.0	4.638	0.007	0	0	0	0
PL.72953	PL.47187	A	#4 ACSR	7.35Y	122.4	0.01	2.57	3.57	3	26	6	97	0.00	0.0	4.508	0.036	0	0	0	2
PL.72954	PL.72953	A	#4 ACSR	7.35Y	122.4	0.00	2.57	1.90	1	14	3	98	0.00	0.0	4.524	0.016	14	3	1	1
PL.72952	PL.72953	A	#1/0 ACSR	7.35Y	122.4	0.00	2.57	1.67	1	12	3	97	0.00	0.0	4.559	0.051	12	3	1	1
PL.47189	PL.46229	A	#4 ACSR	7.35Y	122.5	0.00	2.51	1.76	1	13	3	97	0.00	0.0	4.466	0.040	13	3	1	1
PL.36136	PL.34100	C	#1/0 ACSR	7.36Y	122.6	0.00	2.40	1.59	1	11	3	96	0.00	0.0	4.310	0.001	0	0	0	1
PD.5137	PL.36136	C	60QA	7.36Y	122.6	0.00	2.40	1.59	3	11	3	96	0.00	0.0	4.310	0.001	0	0	0	1
PL.36137	PD.5137	C	#1/0 ACSR	7.36Y	122.6	0.00	2.40	1.59	1	11	3	96	0.00	0.0	4.366	0.056	11	3	1	1
PL.36135	PL.34100	ABC	#1/0 ACSR	7.36Y	122.6	0.00	2.40	0.00	0	0	0	100	0.00	0.0	4.338	0.029	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 1

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.52345	PL.36454	A	#1/0 ACSR	7.38Y	123.0	0.00	1.97	2.93	1	21	5	97	0.00	0.0	3.598	0.024	21	5	4	4
PL.35075	PL.35074	C	#2 ACSR	7.39Y	123.1	0.00	1.91	3.29	2	24	5	98	0.00	0.0	3.499	0.001	0	0	0	4
PD.5035	PL.35075	C	50QA	7.39Y	123.1	0.00	1.91	3.29	7	24	5	98	0.00	0.0	3.499	0.001	0	0	0	4
PL.37080	PD.5035	C	#2 ACSR	7.38Y	123.1	0.01	1.92	3.29	2	24	5	98	0.00	0.0	3.595	0.095	10	2	2	4
PL.37081	PL.37080	C	#2 ACSR	7.38Y	123.1	0.00	1.92	1.84	1	13	3	97	0.00	0.0	3.703	0.108	13	3	2	2
CP.58	PL.35236	ABC	Cap (300)	7.39Y	123.1	0.00	1.86	0.00	0	0	0	100	0.00	0.0	3.438	0.108	0	0	0	0
PL.35234	PL.35231	ABC	#1/0 ACSR	7.39Y	123.2	0.00	1.84	1.33	1	28	10	94	0.00	0.0	3.418	0.000	0	0	0	2
PD.5682	PL.35234	ABC	60QA	7.39Y	123.2	0.00	1.84	1.33	2	28	10	94	0.00	0.0	3.418	0.000	0	0	0	2
PL.35235	PD.5682	ABC	#1/0 ACSR	7.39Y	123.2	0.00	1.84	1.33	1	28	10	94	0.00	0.0	3.432	0.014	28	10	2	2
PL.34289	PL.35035	ABC	#4 ACSR	7.39Y	123.2	0.00	1.77	1.51	1	30	15	89	0.00	0.0	3.403	0.061	15	7	1	2
PL.34661	PL.34289	ABC	#4 ACSR	7.39Y	123.2	0.00	1.78	0.75	1	15	7	91	0.00	0.0	3.467	0.063	15	7	1	1
PL.34761	PL.34772	ABC	#2 ACSR	7.40Y	123.3	0.00	1.67	5.45	3	110	50	91	0.00	0.0	3.276	0.014	13	3	1	2
PL.33706	PL.34761	ABC	#2 ACSR	7.40Y	123.3	0.00	1.67	0.00	0	0	0	100	0.00	0.0	3.301	0.025	0	0	0	0
PL.36010	PL.34761	ABC	1/0 AL URD	7.40Y	123.3	0.00	1.67	4.86	3	97	47	90	0.00	0.0	3.304	0.028	97	47	1	1
PL.33675	PL.34772	C	#4 ACSR	7.40Y	123.3	0.00	1.67	5.43	4	39	9	97	0.00	0.0	3.294	0.032	39	9	6	6
PL.34281	PL.33823	ABC	#2 ACSR	7.42Y	123.6	0.00	1.39	20.55	12	417	187	91	0.00	0.0	0.928	0.001	0	0	0	7
PD.5058	PL.34281	ABC	40QA	7.42Y	123.6	0.00	1.39	20.55	51	417	187	91	0.00	0.0	0.928	0.001	0	0	0	7
PL.35813	PD.5058	ABC	#2 ACSR	7.41Y	123.6	0.03	1.42	20.55	12	417	187	91	0.09	0.0	0.982	0.054	0	0	0	7
PL.35815	PL.35813	A	6 A (CWC)	7.41Y	123.6	0.00	1.42	0.05	0	0	0	100	0.00	0.0	0.983	0.001	0	0	0	1
PD.5687	PL.35815	A	20QA	7.41Y	123.6	0.00	1.42	0.05	0	0	0	100	0.00	0.0	0.983	0.001	0	0	0	1
PL.35816	PD.5687	A	6 A (CWC)	7.41Y	123.6	0.00	1.42	0.05	0	0	0	100	0.00	0.0	1.011	0.028	0	0	1	1
PL.34708	PL.35816	A	6 A (CWC)	7.41Y	123.6	0.00	1.42	0.00	0	0	0	100	0.00	0.0	1.030	0.019	0	0	0	0
PL.35814	PL.35813	ABC	#2 ACSR	7.41Y	123.5	0.03	1.45	20.54	12	417	187	91	0.10	0.0	1.038	0.056	0	0	0	6
PL.34858	PL.35814	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	1.039	0.001	0	0	0	0
PD.5059	PL.34858	C	75QA	7.41Y	123.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	1.039	0.001	0	0	0	0
PL.35122	PD.5059	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.00	0	0	0	100	0.00	0.0	1.092	0.053	0	0	0	0
PL.34236	PL.35814	ABC	#2 ACSR	7.41Y	123.5	0.01	1.46	17.29	10	352	155	92	0.02	0.0	1.058	0.020	0	0	0	5
PL.35363	PL.34236	ABC	1/0 AL URD	7.41Y	123.5	0.00	1.46	4.34	3	87	42	90	0.00	0.0	1.059	0.001	0	0	0	1
PD.5105	PL.35363	ABC	75QA	7.41Y	123.5	0.00	1.46	4.34	6	87	42	90	0.00	0.0	1.059	0.001	0	0	0	1
PL.35364	PD.5105	ABC	1/0 AL URD	7.41Y	123.5	0.00	1.46	4.34	3	87	42	90	0.00	0.0	1.119	0.060	87	42	1	1
PL.34237	PL.34236	ABC	#2 ACSR	7.41Y	123.5	0.00	1.46	12.95	7	265	113	92	0.00	0.0	1.064	0.006	0	0	0	4

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Balanced Voltage Drop Report
Source: West London 1

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.35366	PL.34237	ABC	1/0 AL URD	7.41Y	123.5	0.00	1.46	12.95	8	265	113	92	0.00	0.0	1.065	0.001	0	0	0	4
PD.5104	PL.35366	ABC	75QA	7.41Y	123.5	0.00	1.46	12.95	17	265	113	92	0.00	0.0	1.065	0.001	0	0	0	4
PL.35367	PD.5104	ABC	1/0 AL URD	7.41Y	123.5	0.00	1.47	12.95	8	265	113	92	0.00	0.0	1.072	0.007	0	0	0	4
PL.35365	PL.35367	ABC	1/0 AL URD	7.41Y	123.5	0.01	1.47	7.05	4	146	56	93	0.00	0.0	1.158	0.086	146	56	3	3
PL.36009	PL.35367	ABC	1/0 AL URD	7.41Y	123.5	0.00	1.47	5.91	3	118	57	90	0.00	0.0	1.088	0.016	118	57	1	1
PL.35368	PL.35814	ABC	#4 ACSR	7.41Y	123.5	0.01	1.46	3.25	2	65	32	90	0.00	0.0	1.107	0.069	0	0	0	1
PL.34362	PL.35368	ABC	#4 ACSR	7.41Y	123.5	0.00	1.46	3.25	2	65	32	90	0.00	0.0	1.112	0.005	65	32	1	1
PL.35788	PL.34705	ABC	6 A (CWC)	7.42Y	123.7	0.00	1.33	5.27	4	105	51	90	0.00	0.0	0.888	0.001	0	0	0	3
PD.5695	PL.35788	ABC	75QA	7.42Y	123.7	0.00	1.33	5.27	7	105	51	90	0.00	0.0	0.888	0.001	0	0	0	3
PL.35749	PD.5695	ABC	#1/0 ACSR	7.42Y	123.7	0.00	1.34	5.27	2	105	51	90	0.00	0.0	0.982	0.094	105	51	3	3
PL.35224	PL.72523	A	#1/0 ACSR	7.43Y	123.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	0.752	0.000	0	0	0	0
PD.5056	PL.35224	A	40QA	7.43Y	123.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	0.752	0.000	0	0	0	0
PL.35225	PD.5056	A	#1/0 ACSR	7.43Y	123.9	0.00	1.12	0.00	0	0	0	100	0.00	0.0	0.787	0.034	0	0	0	0
PL.34766	PL.72523	ABC	#4 ACSR	7.43Y	123.8	0.04	1.16	21.83	17	448	190	92	0.15	0.0	0.800	0.048	0	0	1	19
PL.34769	PL.34766	ABC	#4 ACSR	7.43Y	123.8	0.03	1.19	20.66	16	422	184	92	0.10	0.0	0.836	0.037	22	5	6	15
PL.35919	PL.34769	ABC	#4 ACSR	7.43Y	123.8	0.03	1.22	19.67	15	400	179	91	0.11	0.0	0.879	0.042	0	0	0	9
PL.34543	PL.35919	ABC	#2 ACSR	7.43Y	123.8	0.00	1.22	0.63	0	13	6	91	0.00	0.0	0.901	0.022	13	6	1	1
PL.36132	PL.35919	ABC	#4 ACSR	7.43Y	123.8	0.02	1.24	19.04	15	387	173	91	0.07	0.0	0.911	0.032	18	4	2	8
PL.35847	PL.36132	ABC	#4 ACSR	7.42Y	123.7	0.05	1.29	17.55	14	354	165	91	0.14	0.0	0.983	0.071	12	3	1	4
PL.57603	PL.35847	B	#4 ACSR	7.42Y	123.7	0.00	1.29	1.76	1	13	3	97	0.00	0.0	1.001	0.018	13	3	1	1
PL.35848	PL.35847	ABC	#4 ACSR	7.42Y	123.6	0.09	1.37	16.46	13	330	160	90	0.24	0.1	1.123	0.140	0	0	0	2
PL.35523	PL.35848	ABC	#4 ACSR	7.42Y	123.6	0.01	1.39	16.46	13	330	160	90	0.03	0.0	1.147	0.024	73	35	1	2
PL.35921	PL.35523	ABC	#4 ACSR	7.42Y	123.6	0.02	1.41	12.83	10	257	124	90	0.05	0.0	1.194	0.047	0	0	0	1
PL.34904	PL.35921	ABC	#2 ACSR	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	1.211	0.017	0	0	0	0
PL.34149	PL.35921	ABC	1/0 AL URD	7.42Y	123.6	0.00	1.41	12.83	8	257	124	90	0.00	0.0	1.195	0.001	0	0	0	1
PD.5694	PL.34149	ABC	75QA	7.42Y	123.6	0.00	1.41	12.83	17	257	124	90	0.00	0.0	1.195	0.001	0	0	0	1
PL.35748	PD.5694	ABC	1/0 AL URD	7.42Y	123.6	0.00	1.41	12.83	8	257	124	90	0.01	0.0	1.222	0.028	257	124	1	1
PL.36133	PL.36132	B	6 A (CWC)	7.43Y	123.8	0.00	1.24	2.05	1	15	3	98	0.00	0.0	0.912	0.000	0	0	0	2
PD.5055	PL.36133	B	40T	7.43Y	123.8	0.00	1.24	2.05	0	15	3	98	0.00	0.0	0.912	0.000	0	0	0	2
PL.37021	PD.5055	B	6 A (CWC)	7.43Y	123.8	0.00	1.24	2.05	1	15	3	98	0.00	0.0	0.932	0.020	0	0	0	2
PL.37176	PL.37021	B	6 A (CWC)	7.43Y	123.8	0.00	1.24	2.05	1	15	3	98	0.00	0.0	0.956	0.024	15	3	2	2

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Balanced Voltage Drop Report
Source: West London 1

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.36139	PL.34766	C	6 A (CWC)	7.43Y	123.8	0.00	1.16	3.53	3	26	6	97	0.00	0.0	0.800	0.001	0	0	0	3
PD.5253	PL.36139	C	75QA	7.43Y	123.8	0.00	1.16	3.53	5	26	6	97	0.00	0.0	0.800	0.001	0	0	0	3
PL.36140	PD.5253	C	6 A (CWC)	7.43Y	123.8	0.00	1.16	3.53	3	26	6	97	0.00	0.0	0.830	0.029	26	6	3	3
CP.113	PL.34601	ABC	Cap (300)	7.44Y	123.9	0.00	1.06	0.00	0	0	0	100	0.00	0.0	0.719	0.029	0	0	0	0
PL.34274	PL.35242	ABC	#4 ACSR	7.44Y	124.0	0.00	0.98	1.27	1	28	6	98	0.00	0.0	0.690	0.014	0	0	0	2
PL.35744	PL.34274	B	#4 ACSR	7.44Y	124.0	0.00	0.98	3.82	3	28	6	98	0.00	0.0	0.690	0.000	0	0	0	2
PD.5739	PL.35744	B	75QA	7.44Y	124.0	0.00	0.98	3.82	5	28	6	98	0.00	0.0	0.690	0.000	0	0	0	2
PL.35745	PD.5739	B	#4 ACSR	7.44Y	124.0	0.00	0.99	3.82	3	28	6	98	0.00	0.0	0.719	0.029	0	0	1	2
PL.34632	PL.35745	B	#4 ACSR	7.44Y	124.0	0.00	0.99	3.76	3	27	6	98	0.00	0.0	0.776	0.057	27	6	1	1
PL.35837	PL.34322	B	#4 ACSR	7.47Y	124.5	0.00	0.47	39.79	31	290	67	97	0.01	0.0	0.395	0.001	0	0	0	26
PD.5807	PL.35837	B	50T	7.47Y	124.5	0.00	0.47	39.79	0	290	67	97	0.00	0.0	0.395	0.001	0	0	0	26
PL.35809	PD.5807	B	#4 ACSR	7.46Y	124.4	0.14	0.61	39.79	31	290	67	97	0.30	0.1	0.473	0.078	0	0	0	26
PL.33599	PL.35809	B	#4 ACSR	7.46Y	124.4	0.00	0.61	3.77	3	27	6	98	0.00	0.0	0.513	0.040	27	6	2	2
PL.35810	PL.35809	B	#4 ACSR	7.46Y	124.3	0.07	0.68	36.02	28	262	61	97	0.14	0.1	0.517	0.044	0	0	0	24
PL.34120	PL.35810	B	#4 ACSR	7.46Y	124.3	0.04	0.71	22.03	17	160	37	97	0.04	0.0	0.553	0.036	0	0	0	14
PL.34121	PL.34120	B	#4 ACSR	7.46Y	124.3	0.04	0.75	19.23	15	140	32	97	0.03	0.0	0.599	0.046	23	5	2	12
PL.51819	PL.34121	B	#4 ACSR	7.45Y	124.2	0.03	0.78	16.01	12	116	27	97	0.02	0.0	0.637	0.039	9	2	1	10
PL.51818	PL.51819	B	#4 ACSR	7.45Y	124.2	0.00	0.78	2.95	2	21	5	97	0.00	0.0	0.670	0.033	21	5	1	1
PL.51817	PL.51819	B	#4 ACSR	7.45Y	124.2	0.02	0.80	11.81	9	86	20	97	0.01	0.0	0.678	0.041	10	2	1	8
PL.34119	PL.51817	B	#4 ACSR	7.45Y	124.2	0.01	0.81	10.50	8	76	18	97	0.01	0.0	0.716	0.039	45	10	3	7
PL.35846	PL.34119	B	#4 ACSR	7.45Y	124.2	0.02	0.82	4.31	3	31	7	98	0.00	0.0	0.796	0.080	0	0	0	4
PL.33443	PL.35846	B	#4 ACSR	7.45Y	124.2	0.00	0.83	2.45	2	18	4	98	0.00	0.0	0.841	0.045	7	2	1	2
PL.33444	PL.33443	B	#4 ACSR	7.45Y	124.2	0.00	0.83	1.54	1	11	3	96	0.00	0.0	0.894	0.053	11	3	1	1
PL.34560	PL.35846	B	#4 ACSR	7.45Y	124.2	0.00	0.82	1.86	1	13	3	97	0.00	0.0	0.808	0.012	13	3	2	2
PL.36002	PL.34120	B	#4 ACSR	7.46Y	124.3	0.00	0.72	2.81	2	20	5	97	0.00	0.0	0.584	0.031	20	5	2	2
PL.35154	PL.35810	B	#4 ACSR	7.46Y	124.3	0.01	0.69	13.98	11	102	23	98	0.01	0.0	0.541	0.024	9	2	2	10
PL.35145	PL.35154	B	#4 ACSR	7.46Y	124.3	0.00	0.70	4.07	3	30	7	97	0.00	0.0	0.578	0.036	30	7	2	2
PL.35155	PL.35154	B	#4 ACSR	7.46Y	124.3	0.01	0.70	6.21	5	45	10	98	0.00	0.0	0.568	0.027	17	4	2	5
PL.35401	PL.35155	B	#4 ACSR	7.46Y	124.3	0.00	0.70	3.90	3	28	7	97	0.00	0.0	0.591	0.023	11	3	1	3
PL.35965	PL.35401	B	#4 ACSR	7.46Y	124.3	0.00	0.70	2.39	2	17	4	97	0.00	0.0	0.618	0.027	17	4	2	2
PL.35811	PL.35154	B	#4 ACSR	7.46Y	124.3	0.00	0.70	2.46	2	18	4	98	0.00	0.0	0.564	0.023	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 1

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.35812	PL.35811	B	#4 ACSR	7.46Y	124.3	0.00	0.70	2.46	2	18	4	98	0.00	0.0	0.588	0.024	18	4	1	1
PL.34200	PL.34322	B	#4 ACSR	7.47Y	124.5	0.00	0.47	14.61	11	106	25	97	0.00	0.0	0.395	0.002	0	0	0	18
PD.5800	PL.34200	B	75QA	7.47Y	124.5	0.00	0.47	14.61	19	106	25	97	0.00	0.0	0.395	0.002	0	0	0	18
PL.35836	PD.5800	B	#4 ACSR	7.47Y	124.5	0.02	0.49	14.61	11	106	25	97	0.01	0.0	0.427	0.031	15	3	3	18
PL.33819	PL.35836	B	#4 ACSR	7.47Y	124.5	0.01	0.50	7.67	6	56	13	97	0.00	0.0	0.444	0.017	10	2	2	8
PL.33820	PL.33819	B	#4 ACSR	7.47Y	124.5	0.01	0.50	6.33	5	46	11	97	0.00	0.0	0.471	0.027	13	3	2	6
PL.55991	PL.33820	B	#4 ACSR	7.47Y	124.5	0.00	0.51	4.49	3	33	8	97	0.00	0.0	0.495	0.025	10	2	1	4
PL.55990	PL.55991	B	#4 ACSR	7.47Y	124.5	0.00	0.51	3.07	2	22	5	98	0.00	0.0	0.516	0.021	22	5	3	3
PL.34248	PL.35836	B	#4 ACSR	7.47Y	124.5	0.01	0.50	4.87	4	35	8	97	0.00	0.0	0.492	0.065	0	0	0	7
PL.34038	PL.34248	B	#4 ACSR	7.47Y	124.5	0.01	0.51	4.04	3	29	7	97	0.00	0.0	0.551	0.059	29	7	6	6
PL.34249	PL.34248	B	#4 ACSR	7.47Y	124.5	0.00	0.50	0.83	1	6	1	99	0.00	0.0	0.530	0.038	6	1	1	1
PL.34109	PL.34249	B	#4 ACSR	7.47Y	124.5	0.00	0.50	0.00	0	0	0	100	0.00	0.0	0.569	0.039	0	0	0	0
PL.53078	West London 1	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	55.50	11	1216	283	97	0.00	0.0	0.002	0.002	0	0	0	135
PL.53079	PL.53078	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	55.50	11	1216	283	97	0.00	0.0	0.003	0.001	0	0	0	135

----- Feeder No. 5 (Parker Rd F5) Beginning with Device PD.8080 -----

PD.8080	PL.53079	ABC	400VWE	7.50Y	125.0	0.00	0.00	55.50	0	1216	283	97	0.00	0.0	0.003	0.001	0	0	0	135
PL.60982	PD.8080	ABC	750 MCM AL	7.50Y	125.0	0.02	0.02	55.50	11	1216	283	97	0.14	0.0	0.108	0.105	0	0	0	135
PD.9079	PL.60982	ABC	100CodeSMo	7.50Y	125.0	0.00	0.02	55.50	0	1216	283	97	0.00	0.0	0.108	0.105	0	0	0	135
PL.60983	PD.9079	ABC	750 MCM AL	7.50Y	125.0	0.02	0.04	55.50	11	1216	283	97	0.13	0.0	0.208	0.100	0	0	0	135
PD.9080	PL.60983	ABC	100CodeSMo	7.50Y	125.0	0.00	0.04	55.50	0	1216	283	97	0.00	0.0	0.208	0.100	0	0	0	135
PL.60984	PD.9080	ABC	750 MCM AL	7.50Y	124.9	0.01	0.05	55.50	11	1216	283	97	0.11	0.0	0.290	0.082	0	0	0	135
PD.9081	PL.60984	ABC	100CodeSMo	7.50Y	124.9	0.00	0.05	55.50	0	1216	282	97	0.00	0.0	0.290	0.082	0	0	0	135
PL.60985	PD.9081	ABC	750 MCM AL	7.50Y	124.9	0.02	0.07	55.50	11	1216	282	97	0.11	0.0	0.378	0.087	0	0	0	135
PL.60981	PL.60985	ABC	750 MCM AL	7.50Y	124.9	0.00	0.07	55.50	11	1216	282	97	0.00	0.0	0.380	0.002	0	0	0	135
PD.5869-A	PL.60981	ABC	Closed	7.50Y	124.9	0.00	0.07	55.50	0	1216	282	97	0.00	0.0	0.380	0.002	0	0	0	135
PD.5869-B	PD.5869-A	ABC	Closed	7.50Y	124.9	0.00	0.07	55.50	0	1216	282	97	0.00	0.0	0.380	0.002	0	0	0	135
PL.37076	PD.5869-B	ABC	3/0 AL URD	7.50Y	124.9	0.00	0.07	55.50	26	1216	282	97	0.00	0.0	0.381	0.001	0	0	0	135
PL.33666	PL.37076	ABC	#3/0 ACSR	7.50Y	124.9	0.01	0.08	55.50	19	1216	282	97	0.05	0.0	0.391	0.010	18	4	1	135
PL.35713	PL.33666	ABC	#3/0 ACSR	7.49Y	124.9	0.01	0.09	24.92	8	546	126	97	0.04	0.0	0.431	0.040	5	1	2	61

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 1

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.35714	PL.35713	ABC	#3/0 ACSR	7.49Y	124.9	0.02	0.11	24.67	8	540	125	97	0.06	0.0	0.495	0.064	26	6	2	59
PL.36706	PL.35714	ABC	#3/0 ACSR	7.49Y	124.9	0.00	0.11	10.10	3	221	51	97	0.01	0.0	0.532	0.037	15	3	1	27
PL.36707	PL.36706	ABC	#3/0 ACSR	7.49Y	124.9	0.00	0.12	9.42	3	206	48	97	0.00	0.0	0.558	0.026	0	0	0	26
PL.35067	PL.36707	ABC	336 MCM AC	7.49Y	124.9	0.00	0.12	0.00	0	0	0	100	0.00	0.0	0.573	0.015	0	0	0	0
PD.5876-B	PL.35067	ABC	Open	7.49Y	124.9	0.00	0.12	0.00	0	0	0	100	0.00	0.0	0.573	0.015	0	0	0	0
PL.35456	PL.36707	ABC	#3/0 ACSR	7.49Y	124.9	0.01	0.12	9.42	3	206	48	97	0.01	0.0	0.620	0.062	0	0	0	26
PL.35457	PL.35456	ABC	#3/0 ACSR	7.49Y	124.9	0.00	0.13	8.41	3	184	43	97	0.00	0.0	0.656	0.036	11	2	1	24
PL.35458	PL.35457	ABC	#3/0 ACSR	7.49Y	124.9	0.00	0.13	7.73	3	169	39	97	0.00	0.0	0.688	0.032	41	10	8	22
PL.34483	PL.35458	ABC	#3/0 ACSR	7.49Y	124.9	0.01	0.13	5.84	2	128	30	97	0.00	0.0	0.768	0.081	32	7	4	14
PL.34484	PL.34483	ABC	#3/0 ACSR	7.49Y	124.9	0.00	0.14	4.39	1	96	22	97	0.00	0.0	0.803	0.035	12	3	2	10
PL.34487	PL.34484	ABC	#3/0 ACSR	7.49Y	124.9	0.00	0.14	3.83	1	84	19	98	0.00	0.0	0.865	0.062	36	8	3	8
PL.36065	PL.34487	A	#4 ACSR	7.49Y	124.9	0.00	0.14	3.06	2	22	5	98	0.00	0.0	0.865	0.000	0	0	0	2
PD.5155	PL.36065	A	75QA	7.49Y	124.9	0.00	0.14	3.06	4	22	5	98	0.00	0.0	0.865	0.000	0	0	0	2
PL.33927	PD.5155	A	#4 ACSR	7.49Y	124.9	0.00	0.14	3.06	2	22	5	98	0.00	0.0	0.896	0.030	10	2	1	2
PL.33928	PL.33927	A	#4 ACSR	7.49Y	124.9	0.00	0.14	1.73	1	13	3	97	0.00	0.0	0.941	0.045	13	3	1	1
PL.36066	PL.34487	A	#2 ACSR	7.49Y	124.9	0.00	0.14	3.54	2	26	6	97	0.00	0.0	0.898	0.033	18	4	2	3
PL.36067	PL.36066	A	#2 ACSR	7.49Y	124.9	0.00	0.14	1.14	1	8	2	97	0.00	0.0	0.924	0.026	8	2	1	1
PL.35250	PL.35457	C	#4 ACSR	7.49Y	124.9	0.00	0.13	0.57	0	4	1	97	0.00	0.0	0.731	0.076	4	1	1	1
PL.33723	PL.35456	A	#4 ACSR	7.49Y	124.9	0.00	0.12	3.03	2	22	5	98	0.00	0.0	0.636	0.016	22	5	2	2
PL.34849	PL.35714	A	6 A (CWC)	7.49Y	124.8	0.06	0.17	40.19	29	293	68	97	0.14	0.0	0.530	0.035	0	0	0	30
PL.33715	PL.34849	A	6 A (CWC)	7.49Y	124.8	0.00	0.17	40.19	29	293	68	97	0.00	0.0	0.531	0.001	0	0	0	30
PD.5153	PL.33715	A	75QA	7.49Y	124.8	0.00	0.17	40.19	54	293	68	97	0.00	0.0	0.531	0.001	0	0	0	30
PL.36028	PD.5153	A	6 A (CWC)	7.48Y	124.6	0.18	0.36	40.19	29	293	68	97	0.39	0.1	0.632	0.101	4	1	1	30
PL.36453	PL.36028	A	6 A (CWC)	7.48Y	124.6	0.01	0.37	39.58	28	288	67	97	0.03	0.0	0.639	0.007	0	0	0	29
PL.36362	PL.36453	A	1/0 AL URD	7.48Y	124.6	0.00	0.37	22.38	13	163	38	97	0.00	0.0	0.640	0.001	0	0	0	15
PD.5699	PL.36362	A	75QA	7.48Y	124.6	0.00	0.37	22.38	30	163	38	97	0.00	0.0	0.640	0.001	0	0	0	15
PL.36451	PD.5699	A	1/0 AL URD	7.48Y	124.6	0.01	0.38	22.38	13	163	38	97	0.01	0.0	0.655	0.014	6	1	1	15
PL.36452	PL.36451	A	1/0 AL URD	7.48Y	124.6	0.02	0.39	21.53	13	157	36	97	0.02	0.0	0.679	0.024	24	5	2	14
PL.34059	PL.36452	A	1/0 AL URD	7.48Y	124.6	0.02	0.41	18.27	11	133	31	97	0.02	0.0	0.722	0.043	55	13	4	12
PL.35805	PL.34059	A	1/0 AL URD	7.47Y	124.6	0.01	0.43	10.73	6	78	18	97	0.01	0.0	0.767	0.044	23	5	4	8
PL.61006	PL.35805	A	1/0 AL URD	7.47Y	124.6	0.00	0.43	7.60	4	55	13	97	0.00	0.0	0.790	0.024	55	13	4	4

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

Balanced Voltage Drop Report
Source: West London 1

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.61007	PL.61006	A	1/0 AL URD	7.47Y	124.6	0.00	0.43	0.00	0	0	0	100	0.00	0.0	0.840	0.050	0	0	0	0
PL.34250	PL.36452	A	1/0 AL URD	7.48Y	124.6	0.00	0.39	0.00	0	0	0	100	0.00	0.0	0.738	0.058	0	0	0	0
PL.36450	PL.36453	A	1/0 AL URD	7.48Y	124.6	0.00	0.37	17.20	10	125	29	97	0.00	0.0	0.640	0.001	0	0	0	14
PD.5154	PL.36450	A	75QA	7.48Y	124.6	0.00	0.37	17.20	23	125	29	97	0.00	0.0	0.640	0.001	0	0	0	14
PL.36027	PD.5154	A	1/0 AL URD	7.48Y	124.6	0.03	0.40	17.20	10	125	29	97	0.02	0.0	0.692	0.052	18	4	1	14
PL.34695	PL.36027	A	1/0 AL URD	7.48Y	124.6	0.02	0.41	14.76	9	107	25	97	0.02	0.0	0.736	0.043	11	3	2	13
PL.34696	PL.34695	A	1/0 AL URD	7.47Y	124.6	0.02	0.43	13.18	8	96	22	97	0.01	0.0	0.776	0.040	0	0	0	11
PL.34697	PL.34696	A	1/0 AL URD	7.47Y	124.6	0.01	0.44	13.18	8	96	22	97	0.00	0.0	0.794	0.019	21	5	3	11
PL.34698	PL.34697	A	1/0 AL URD	7.47Y	124.5	0.03	0.46	10.35	6	75	17	98	0.01	0.0	0.884	0.090	11	3	1	8
PL.36950	PL.34698	A	1/0 AL URD	7.47Y	124.5	0.00	0.47	8.82	5	64	15	97	0.00	0.0	0.901	0.017	0	0	0	7
PL.36951	PL.36950	A	1/0 AL URD	7.47Y	124.5	0.01	0.48	8.82	5	64	15	97	0.01	0.0	0.945	0.043	7	2	1	7
PL.35806	PL.36951	A	1/0 AL URD	7.47Y	124.5	0.02	0.50	7.84	5	57	13	97	0.01	0.0	1.017	0.072	15	3	2	6
PL.35807	PL.35806	A	1/0 AL URD	7.47Y	124.5	0.01	0.50	5.79	3	42	10	97	0.00	0.0	1.059	0.042	5	1	1	4
PL.35808	PL.35807	A	1/0 AL URD	7.47Y	124.5	0.00	0.51	5.07	3	37	9	97	0.00	0.0	1.101	0.042	26	6	2	3
PL.35545	PL.35808	A	1/0 AL URD	7.47Y	124.5	0.00	0.51	1.53	1	11	3	96	0.00	0.0	1.103	0.001	0	0	0	1
PL.36039	PL.35545	A	1/0 AL URD	7.47Y	124.5	0.00	0.51	0.00	0	0	0	100	0.00	0.0	1.103	0.001	0	0	0	0
PL.34755	PL.35545	A	1/0 AL URD	7.47Y	124.5	0.00	0.51	1.53	1	11	3	96	0.00	0.0	1.186	0.083	11	3	1	1
PL.35804	PL.36950	A	1/0 AL URD	7.47Y	124.5	0.00	0.47	0.00	0	0	0	100	0.00	0.0	0.904	0.002	0	0	0	0
PL.35316	PL.33666	ABC	#3/0 ACSR	7.49Y	124.9	0.02	0.10	29.77	10	652	152	97	0.09	0.0	0.453	0.061	15	3	1	73
PL.35317	PL.35316	ABC	#3/0 ACSR	7.49Y	124.9	0.03	0.13	29.11	10	637	148	97	0.11	0.0	0.531	0.079	4	1	1	72
PL.34733	PL.35317	C	#4 ACSR	7.49Y	124.9	0.00	0.13	4.64	4	34	8	97	0.00	0.0	0.532	0.001	0	0	0	3
PD.5174	PL.34733	C	40QA	7.49Y	124.9	0.00	0.13	4.64	12	34	8	97	0.00	0.0	0.532	0.001	0	0	0	3
PL.33719	PD.5174	C	#4 ACSR	7.49Y	124.8	0.05	0.18	4.64	4	34	8	97	0.01	0.0	0.793	0.260	3	1	1	3
PL.33720	PL.33719	C	#4 ACSR	7.49Y	124.8	0.01	0.19	4.29	3	31	7	98	0.00	0.0	0.830	0.038	0	0	0	2
PL.33717	PL.33720	C	#4 ACSR	7.49Y	124.8	0.00	0.19	2.32	2	17	4	97	0.00	0.0	0.867	0.037	0	0	0	1
PL.33718	PL.33717	C	#4 ACSR	7.49Y	124.8	0.02	0.21	2.32	2	17	4	97	0.00	0.0	1.288	0.421	17	4	1	1
PL.36946	PL.33718	C	#4 ACSR	7.49Y	124.8	0.00	0.21	0.00	0	0	0	100	0.00	0.0	1.318	0.030	0	0	0	0
PL.35064	PL.33720	C	1/0 AL URD	7.49Y	124.8	0.01	0.19	1.97	1	14	3	98	0.00	0.0	0.993	0.162	14	3	1	1
PL.36361	PL.35317	ABC	#3/0 ACSR	7.49Y	124.9	0.01	0.14	27.40	9	600	139	97	0.05	0.0	0.572	0.041	27	6	2	68
PL.36363	PL.36361	ABC	#3/0 ACSR	7.49Y	124.9	0.01	0.15	26.17	9	573	133	97	0.03	0.0	0.600	0.028	0	0	0	66
PD.5875-A	PL.36363	ABC	Closed	7.49Y	124.9	0.00	0.15	26.17	0	573	133	97	0.00	0.0	0.600	0.028	0	0	0	66

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

Balanced Voltage Drop Report
Source: West London 1

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.5875-B	PD.5875-A	ABC	Closed	7.49Y	124.9	0.00	0.15	26.17	0	573	133	97	0.00	0.0	0.600	0.028	0	0	0	66
PL.35233	PD.5875-B	ABC	#3/0 ACSR	7.49Y	124.8	0.01	0.16	26.17	9	573	133	97	0.04	0.0	0.638	0.038	18	4	5	66
PL.33714	PL.35233	ABC	#3/0 ACSR	7.49Y	124.8	0.03	0.19	24.34	8	533	124	97	0.09	0.0	0.734	0.096	21	5	4	60
PL.35827	PL.33714	ABC	#3/0 ACSR	7.49Y	124.8	0.01	0.20	20.13	7	441	102	97	0.04	0.0	0.793	0.058	2	0	1	43
PL.36298	PL.35827	A	#2 ACSR	7.49Y	124.8	0.00	0.20	1.59	1	12	3	97	0.00	0.0	0.794	0.001	0	0	0	4
PD.5700	PL.36298	A	50QA	7.49Y	124.8	0.00	0.20	1.59	3	12	3	97	0.00	0.0	0.794	0.001	0	0	0	4
PL.36299	PD.5700	A	#2 ACSR	7.49Y	124.8	0.00	0.20	1.59	1	12	3	97	0.00	0.0	0.857	0.063	12	3	4	4
PL.63264	PL.35827	ABC	#3/0 ACSR	7.49Y	124.8	0.01	0.21	19.51	7	427	99	97	0.03	0.0	0.842	0.049	35	8	5	38
PL.63263	PL.63264	ABC	#3/0 ACSR	7.49Y	124.8	0.01	0.22	17.89	6	391	91	97	0.01	0.0	0.869	0.027	15	3	2	33
PL.51783	PL.63263	ABC	#3/0 ACSR	7.49Y	124.8	0.01	0.23	17.21	6	377	87	97	0.03	0.0	0.942	0.073	22	5	2	31
PL.36208	PL.51783	ABC	#3/0 ACSR	7.49Y	124.8	0.01	0.25	16.19	5	354	82	97	0.03	0.0	1.009	0.067	0	0	0	29
PL.37167	PL.36208	ABC	#3/0 ACSR	7.48Y	124.7	0.01	0.25	15.88	5	347	80	97	0.01	0.0	1.043	0.034	11	3	1	27
PL.35068	PL.37167	ABC	#3/0 ACSR	7.48Y	124.7	0.03	0.28	15.37	5	336	78	97	0.06	0.0	1.192	0.150	0	0	0	26
PL.63272	PL.35068	C	#1/0 ACSR	7.48Y	124.7	0.00	0.28	1.28	1	9	2	98	0.00	0.0	1.259	0.067	9	2	1	1
PL.33600	PL.35068	ABC	#3/0 ACSR	7.48Y	124.7	0.00	0.29	5.44	2	119	28	97	0.00	0.0	1.244	0.052	10	2	1	13
PL.33601	PL.33600	ABC	#3/0 ACSR	7.48Y	124.7	0.01	0.29	5.01	2	109	25	97	0.01	0.0	1.385	0.141	0	0	0	12
PL.36052	PL.33601	C	#4 ACSR	7.48Y	124.7	0.00	0.29	1.96	2	14	3	98	0.00	0.0	1.387	0.001	0	0	0	1
PD.5851	PL.36052	C	75QA	7.48Y	124.7	0.00	0.29	1.96	3	14	3	98	0.00	0.0	1.387	0.001	0	0	0	1
PL.36053	PD.5851	C	#4 ACSR	7.48Y	124.7	0.00	0.30	1.96	2	14	3	98	0.00	0.0	1.467	0.080	14	3	1	1
PL.34122	PL.33601	ABC	#3/0 ACSR	7.48Y	124.7	0.00	0.30	4.35	1	95	22	97	0.00	0.0	1.431	0.045	23	5	1	11
PL.36637	PL.34122	ABC	#3/0 ACSR	7.48Y	124.7	0.00	0.30	0.64	0	14	3	98	0.00	0.0	1.547	0.117	14	3	1	1
PL.36638	PL.36637	ABC	#3/0 ACSR	7.48Y	124.7	0.00	0.30	0.00	0	0	0	100	0.00	0.0	1.596	0.049	0	0	0	0
PD.5885-A	PL.36638	ABC	Open	7.48Y	124.7	0.00	0.30	0.00	0	0	0	100	0.00	0.0	1.596	0.049	0	0	0	0
PL.34123	PL.34122	C	6 A (CWC)	7.48Y	124.7	0.00	0.30	8.04	6	59	14	97	0.00	0.0	1.431	0.001	0	0	0	9
PD.5093	PL.34123	C	25T	7.48Y	124.7	0.00	0.30	8.04	0	59	14	97	0.00	0.0	1.431	0.001	0	0	0	9
PL.63291	PD.5093	C	6 A (CWC)	7.48Y	124.7	0.04	0.33	8.04	6	59	14	97	0.02	0.0	1.530	0.099	0	0	0	9
PL.63292	PL.63291	C	6 A (CWC)	7.48Y	124.7	0.00	0.33	0.00	0	0	0	100	0.00	0.0	1.572	0.042	0	0	0	0
PL.63293	PL.63291	C	6 A (CWC)	7.48Y	124.7	0.01	0.34	3.89	3	28	7	97	0.00	0.0	1.571	0.041	10	2	1	6
PL.34703	PL.63293	C	6 A (CWC)	7.48Y	124.7	0.00	0.34	2.47	2	18	4	98	0.00	0.0	1.600	0.029	9	2	1	5
PL.35085	PL.34703	C	6 A (CWC)	7.48Y	124.7	0.00	0.34	1.27	1	9	2	98	0.00	0.0	1.620	0.020	9	2	4	4
PL.63294	PL.63291	C	#4 ACSR	7.48Y	124.7	0.01	0.34	4.16	3	30	7	97	0.00	0.0	1.576	0.046	20	5	2	3

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

Balanced Voltage Drop Report
Source: West London 1

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.63295	PL.63294	C	#4 ACSR	7.48Y	124.7	0.00	0.34	1.47	1	11	2	98	0.00	0.0	1.626	0.050	11	2	1	1
PL.35335	PL.35068	ABC	#3/0 ACSR	7.48Y	124.7	0.00	0.29	9.50	3	208	48	97	0.01	0.0	1.230	0.038	13	3	1	12
PL.35336	PL.35335	ABC	#3/0 ACSR	7.48Y	124.7	0.01	0.29	8.90	3	195	45	97	0.01	0.0	1.285	0.055	0	0	0	11
PL.61009	PL.35336	C	2 AL URD	7.48Y	124.7	0.00	0.29	17.46	10	127	29	97	0.00	0.0	1.286	0.001	0	0	0	6
PD.9085	PL.61009	C	75QA	7.48Y	124.7	0.00	0.29	17.46	23	127	29	97	0.00	0.0	1.286	0.001	0	0	0	6
PL.61010	PD.9085	C	2 AL URD	7.48Y	124.7	0.02	0.31	17.46	10	127	29	97	0.02	0.0	1.315	0.029	0	0	0	6
PL.61011	PL.61010	C	1/0 AL URD	7.48Y	124.7	0.00	0.31	0.00	0	0	0	100	0.00	0.0	1.346	0.030	0	0	0	0
PL.61012	PL.61010	C	2 AL URD	7.48Y	124.7	0.03	0.34	17.46	10	127	29	97	0.03	0.0	1.366	0.051	0	0	0	6
PD.9086	PL.61012	C	100CodeSMo	7.48Y	124.7	0.00	0.34	17.46	0	127	29	97	0.00	0.0	1.366	0.051	0	0	0	6
PL.61099	PD.9086	C	2 AL URD	7.48Y	124.6	0.05	0.39	17.46	10	127	29	97	0.04	0.0	1.445	0.079	21	5	1	6
PL.61100	PL.61099	C	2 AL URD	7.47Y	124.6	0.05	0.44	14.63	8	107	25	97	0.04	0.0	1.540	0.095	0	0	0	5
PD.9087	PL.61100	C	100CodeSMo	7.47Y	124.6	0.00	0.44	14.63	0	107	25	97	0.00	0.0	1.540	0.095	0	0	0	5
PL.61102	PD.9087	C	2 AL URD	7.47Y	124.5	0.04	0.48	14.63	8	107	25	97	0.02	0.0	1.628	0.088	52	12	2	5
PL.61101	PL.61102	C	2 AL URD	7.47Y	124.5	0.02	0.49	7.44	4	54	13	97	0.01	0.0	1.713	0.085	29	7	2	3
PL.61103	PL.61101	C	2 AL URD	7.47Y	124.5	0.02	0.51	3.45	2	25	6	97	0.00	0.0	1.835	0.123	0	0	0	1
PD.9088	PL.61103	C	100CodeSMo	7.47Y	124.5	0.00	0.51	3.45	0	25	6	97	0.00	0.0	1.835	0.123	0	0	0	1
PL.61104	PD.9088	C	2 AL URD	7.47Y	124.5	0.01	0.52	3.45	2	25	6	97	0.00	0.0	1.934	0.099	0	0	0	1
PD.9089	PL.61104	C	100CodeSMo	7.47Y	124.5	0.00	0.52	3.45	0	25	6	97	0.00	0.0	1.934	0.099	0	0	0	1
PL.61106	PD.9089	C	2 AL URD	7.47Y	124.5	0.01	0.53	3.45	2	25	6	97	0.00	0.0	2.036	0.102	25	6	1	1
PL.61105	PL.61106	C	2 AL URD	7.47Y	124.5	0.00	0.53	0.00	0	0	0	100	0.00	0.0	2.180	0.144	0	0	0	0
PL.61107	PL.61105	C	2 AL URD	7.47Y	124.5	0.00	0.53	0.00	0	0	0	100	0.00	0.0	2.337	0.157	0	0	0	0
PL.37075	PL.35336	A	6 A (CWC)	7.48Y	124.7	0.00	0.29	0.21	0	2	0	100	0.00	0.0	1.286	0.000	0	0	0	1
PD.5693	PL.37075	A	75QA	7.48Y	124.7	0.00	0.29	0.21	0	2	0	100	0.00	0.0	1.286	0.000	0	0	0	1
PL.36657	PD.5693	A	6 A (CWC)	7.48Y	124.7	0.00	0.29	0.21	0	2	0	100	0.00	0.0	1.335	0.049	2	0	1	1
PL.60757	PL.35336	C	2 AL URD	7.48Y	124.7	0.00	0.29	9.03	5	66	15	98	0.00	0.0	1.286	0.001	0	0	0	4
PD.9097	PL.60757	C	75QA	7.48Y	124.7	0.00	0.29	9.03	12	66	15	98	0.00	0.0	1.286	0.001	0	0	0	4
PL.60758	PD.9097	C	2 AL URD	7.48Y	124.7	0.03	0.32	9.03	5	66	15	98	0.01	0.0	1.380	0.094	0	0	0	4
PL.60759	PL.60758	C	2 AL URD	7.48Y	124.7	0.00	0.33	9.03	5	66	15	98	0.00	0.0	1.390	0.010	0	0	0	4
PL.60756	PL.60759	C	2 AL URD	7.48Y	124.6	0.04	0.37	9.03	5	66	15	98	0.02	0.0	1.511	0.122	3	1	1	4
PL.60755	PL.60756	C	2 AL URD	7.48Y	124.6	0.03	0.39	8.66	5	63	15	97	0.01	0.0	1.598	0.087	0	0	0	3
PD.9091	PL.60755	C	100CodeSMo	7.48Y	124.6	0.00	0.39	8.66	0	63	15	97	0.00	0.0	1.598	0.087	0	0	0	3

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

Balanced Voltage Drop Report
Source: West London 1

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.60754	PD.9091	C	2 AL URD	7.48Y	124.6	0.01	0.40	8.66	5	63	15	97	0.00	0.0	1.621	0.023	0	0	1	3
PL.60753	PL.60754	C	2 AL URD	7.48Y	124.6	0.01	0.41	8.65	5	63	15	97	0.00	0.0	1.646	0.025	0	0	0	2
PL.61015	PL.60753	C	2 AL URD	7.48Y	124.6	0.00	0.41	8.65	5	63	15	97	0.00	0.0	1.657	0.011	17	4	1	2
PL.61013	PL.61015	C	2 AL URD	7.47Y	124.6	0.02	0.43	6.35	4	46	11	97	0.01	0.0	1.728	0.071	0	0	0	1
PL.61014	PL.61013	C	2 AL URD	7.47Y	124.6	0.01	0.44	6.35	4	46	11	97	0.00	0.0	1.786	0.058	46	11	1	1
PL.61108	PL.61014	C	2 AL URD	7.47Y	124.6	0.00	0.44	0.00	0	0	0	100	0.00	0.0	1.872	0.086	0	0	0	0
PL.36302	PL.36208	A	#4 ACSR	7.49Y	124.8	0.00	0.25	0.92	1	7	2	96	0.00	0.0	1.010	0.001	0	0	0	2
PD.5743	PL.36302	A	25T	7.49Y	124.8	0.00	0.25	0.92	0	7	2	96	0.00	0.0	1.010	0.001	0	0	0	2
PL.35979	PD.5743	A	#4 ACSR	7.49Y	124.8	0.00	0.25	0.92	1	7	2	96	0.00	0.0	1.078	0.069	7	2	2	2
PL.35828	PL.33714	C	#4 ACSR	7.49Y	124.8	0.00	0.19	5.76	4	42	10	97	0.00	0.0	0.735	0.001	0	0	0	9
PD.5157	PL.35828	C	75QA	7.49Y	124.8	0.00	0.19	5.76	8	42	10	97	0.00	0.0	0.735	0.001	0	0	0	9
PL.35829	PD.5157	C	#4 ACSR	7.49Y	124.8	0.01	0.19	5.76	4	42	10	97	0.00	0.0	0.761	0.026	17	4	4	9
PL.36947	PL.35829	C	#4 ACSR	7.49Y	124.8	0.01	0.21	3.49	3	25	6	97	0.00	0.0	0.856	0.095	6	1	2	5
PL.36948	PL.36947	C	#4 ACSR	7.49Y	124.8	0.00	0.21	2.70	2	20	5	97	0.00	0.0	0.887	0.031	11	3	1	3
PL.36949	PL.36948	C	#4 ACSR	7.49Y	124.8	0.00	0.21	1.13	1	8	2	97	0.00	0.0	0.964	0.077	8	2	2	2
PL.35830	PL.33714	A	#4 ACSR	7.49Y	124.8	0.00	0.19	4.00	3	29	7	97	0.00	0.0	0.735	0.001	0	0	0	4
PD.5156	PL.35830	A	75QA	7.49Y	124.8	0.00	0.19	4.00	5	29	7	97	0.00	0.0	0.735	0.001	0	0	0	4
PL.35831	PD.5156	A	#4 ACSR	7.49Y	124.8	0.00	0.19	4.00	3	29	7	97	0.00	0.0	0.757	0.022	29	7	4	4
PL.36364	PL.35233	C	#4 ACSR	7.49Y	124.8	0.00	0.16	2.98	2	22	5	98	0.00	0.0	0.639	0.001	0	0	0	1
PD.5103	PL.36364	C	40QA	7.49Y	124.8	0.00	0.16	2.98	7	22	5	98	0.00	0.0	0.639	0.001	0	0	0	1
PL.35826	PD.5103	C	#4 ACSR	7.49Y	124.8	0.00	0.16	2.98	2	22	5	98	0.00	0.0	0.671	0.032	22	5	1	1
PL.53074	West London 1	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	204.30	39	4397	1341	96	0.05	0.0	0.001	0.001	0	0	0	453
PL.53080	PL.53074	ABC	336 MCM AC	7.50Y	125.0	0.00	0.00	204.30	39	4397	1340	96	0.04	0.0	0.003	0.001	0	0	0	453

----- Feeder No. 1 (Jerrys Rest. F1) Beginning with Device PD.8081 -----

PD.8081	PL.53080	ABC	400VWE	7.50Y	125.0	0.00	0.00	204.30	0	4397	1340	96	0.00	0.0	0.003	0.001	0	0	0	453
PL.34831	PD.8081	ABC	556 MCM AC	7.50Y	124.9	0.08	0.08	204.30	29	4397	1340	96	0.42	0.0	0.113	0.110	0	0	0	453
PL.34832	PL.34831	ABC	556 MCM AC	7.49Y	124.8	0.10	0.18	204.30	29	4396	1332	96	0.56	0.0	0.257	0.144	0	0	0	453
PL.33821	PL.34832	ABC	336 MCM AC	7.49Y	124.8	0.04	0.22	204.30	39	4396	1321	96	0.84	0.0	0.281	0.024	0	0	0	453
PL.36330	PL.33821	ABC	336 MCM AC	7.47Y	124.6	0.21	0.43	204.30	39	4395	1319	96	4.77	0.1	0.417	0.136	19	4	1	453

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 1

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.55980	PL.36330	ABC	#4 ACSR	7.47Y	124.6	0.00	0.44	1.99	2	42	15	94	0.00	0.0	0.468	0.051	21	5	2	3
PL.55981	PL.55980	ABC	#4 ACSR	7.47Y	124.6	0.00	0.44	1.06	1	21	10	90	0.00	0.0	0.575	0.107	21	10	1	1
PL.36331	PL.36330	ABC	336 MCM AC	7.47Y	124.5	0.09	0.52	201.43	39	4329	1288	96	1.92	0.0	0.473	0.056	16	4	2	449
PL.36329	PL.36331	ABC	336 MCM AC	7.46Y	124.4	0.08	0.60	200.71	39	4311	1280	96	1.76	0.0	0.525	0.052	6	1	1	447
PL.34693	PL.36329	A	#4 ACSR	7.46Y	124.4	0.00	0.60	4.28	3	31	7	98	0.00	0.0	0.527	0.002	0	0	0	4
PD.5701	PL.34693	A	75QA	7.46Y	124.4	0.00	0.60	4.28	6	31	7	98	0.00	0.0	0.527	0.002	0	0	0	4
PL.34694	PD.5701	A	#4 ACSR	7.46Y	124.4	0.01	0.60	4.28	3	31	7	98	0.00	0.0	0.576	0.049	15	3	2	4
PL.36321	PL.34694	A	#4 ACSR	7.46Y	124.4	0.00	0.61	2.21	2	16	4	97	0.00	0.0	0.631	0.056	16	4	2	2
PL.34699	PL.36329	C	#4 ACSR	7.46Y	124.4	0.00	0.60	27.39	21	199	46	97	0.00	0.0	0.527	0.002	0	0	0	24
PD.5837	PL.34699	C	30T	7.46Y	124.4	0.00	0.60	27.39	0	199	46	97	0.00	0.0	0.527	0.002	0	0	0	24
PL.34717	PD.5837	C	#4 ACSR	7.46Y	124.3	0.10	0.69	27.39	21	199	46	97	0.13	0.1	0.613	0.086	31	7	3	24
PL.35703	PL.34717	C	#4 ACSR	7.46Y	124.3	0.01	0.70	6.13	5	45	10	98	0.00	0.0	0.649	0.037	13	3	3	7
PL.35658	PL.35703	C	#4 ACSR	7.46Y	124.3	0.00	0.71	4.28	3	31	7	98	0.00	0.0	0.687	0.038	31	7	4	4
PL.35572	PL.34717	C	#4 ACSR	7.46Y	124.3	0.04	0.74	15.47	12	112	26	97	0.03	0.0	0.677	0.065	13	3	1	13
PL.34276	PL.35572	C	#4 ACSR	7.45Y	124.2	0.03	0.76	13.69	11	99	23	97	0.02	0.0	0.726	0.049	9	2	1	12
PL.34277	PL.34276	C	#4 ACSR	7.45Y	124.2	0.01	0.78	12.46	10	91	21	97	0.01	0.0	0.755	0.029	20	5	2	11
PL.36174	PL.34277	C	#4 ACSR	7.45Y	124.2	0.02	0.79	9.75	7	71	16	98	0.01	0.0	0.794	0.039	11	3	2	9
PL.34591	PL.36174	C	#4 ACSR	7.45Y	124.2	0.01	0.80	5.38	4	39	9	97	0.00	0.0	0.832	0.038	20	5	2	5
PL.34592	PL.34591	C	#4 ACSR	7.45Y	124.2	0.00	0.80	2.56	2	19	4	98	0.00	0.0	0.892	0.061	19	4	3	3
PL.34786	PL.36174	C	#4 ACSR	7.45Y	124.2	0.00	0.80	2.82	2	20	5	97	0.00	0.0	0.831	0.037	20	5	2	2
PL.55979	PL.34717	C	#4 ACSR	7.46Y	124.3	0.00	0.70	1.47	1	11	2	98	0.00	0.0	0.654	0.041	11	2	1	1
PL.34242	PL.36329	ABC	336 MCM AC	7.46Y	124.3	0.06	0.66	189.89	37	4073	1221	96	1.29	0.0	0.568	0.043	24	5	2	418
PL.34243	PL.34242	ABC	336 MCM AC	7.46Y	124.3	0.06	0.72	188.80	36	4048	1213	96	1.28	0.0	0.611	0.043	6	1	1	416
PL.35404	PL.34243	ABC	336 MCM AC	7.45Y	124.2	0.08	0.80	188.52	36	4040	1208	96	1.60	0.0	0.664	0.054	17	4	1	415
PL.35405	PL.35404	ABC	336 MCM AC	7.45Y	124.1	0.07	0.87	187.74	36	4022	1201	96	1.53	0.0	0.716	0.052	0	0	0	414
PL.35469	PL.35405	ABC	336 MCM AC	7.45Y	124.1	0.02	0.89	187.07	36	4006	1194	96	0.37	0.0	0.728	0.012	10	2	1	412
PL.35465	PL.35469	ABC	336 MCM AC	7.44Y	124.0	0.07	0.95	186.60	36	3995	1190	96	1.36	0.0	0.775	0.046	6	1	1	411
PL.35466	PL.35465	ABC	336 MCM AC	7.44Y	124.0	0.05	1.01	184.59	36	3950	1177	96	1.05	0.0	0.812	0.037	19	4	2	405
PL.35464	PL.35466	ABC	336 MCM AC	7.44Y	124.0	0.04	1.04	183.70	35	3929	1170	96	0.73	0.0	0.837	0.026	0	0	0	403
PL.36458	PL.35464	A	6 A (CWC)	7.44Y	124.0	0.00	1.05	1.88	1	14	3	98	0.00	0.0	0.896	0.059	2	0	1	3
PL.36459	PL.36458	A	6 A (CWC)	7.44Y	124.0	0.00	1.05	1.66	1	12	3	97	0.00	0.0	0.932	0.036	12	3	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 1

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.36462	PL.35464	C	#4 ACSR	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	0.839	0.002	0	0	0	0
PL.34240	PL.35464	ABC	336 MCM AC	7.44Y	123.9	0.04	1.08	183.07	35	3915	1165	96	0.83	0.0	0.866	0.029	0	0	0	400
PL.63020	PL.34240	ABC	336 MCM AC	7.40Y	123.4	0.56	1.64	183.07	35	3914	1163	96	11.36	0.3	1.269	0.402	0	0	0	400
PL.64489	PL.63020	ABC	#1/0 ACSR	7.40Y	123.4	0.00	1.64	6.92	3	148	40	97	0.00	0.0	1.274	0.006	0	0	0	18
PL.64642	PL.64489	ABC	#1/0 ACSR	7.40Y	123.4	0.00	1.64	6.92	3	148	40	97	0.00	0.0	1.275	0.000	0	0	0	18
PL.64643	PL.64642	ABC	#1/0 ACSR	7.40Y	123.4	0.00	1.64	6.92	3	148	40	97	0.00	0.0	1.307	0.032	0	0	0	18
PL.64490	PL.64643	ABC	#1/0 ACSR	7.40Y	123.4	0.00	1.65	6.92	3	148	40	97	0.00	0.0	1.342	0.036	0	0	0	18
PL.64492	PL.64490	ABC	#1/0 ACSR	7.40Y	123.4	0.00	1.65	1.02	0	20	10	89	0.00	0.0	1.386	0.044	20	10	1	1
PL.64491	PL.64490	C	1/0 HdCu	7.40Y	123.3	0.00	1.65	17.74	6	128	30	97	0.00	0.0	1.345	0.003	0	0	0	17
PD.9546	PL.64491	C	25T	7.40Y	123.3	0.00	1.65	17.74	0	128	30	97	0.00	0.0	1.345	0.003	0	0	0	17
PL.64486	PD.9546	C	1/0 HdCu	7.40Y	123.3	0.03	1.68	17.74	6	128	30	97	0.02	0.0	1.449	0.104	1	0	1	17
PL.64080	PL.64486	C	1/0 HdCu	7.40Y	123.3	0.00	1.68	17.64	6	127	29	97	0.00	0.0	1.449	0.000	4	1	1	16
PL.36945	PL.64080	C	1/0 HdCu	7.40Y	123.3	0.03	1.71	17.10	6	123	29	97	0.02	0.0	1.550	0.101	11	3	1	15
PL.34960	PL.36945	C	1/0 HdCu	7.40Y	123.3	0.00	1.71	5.72	2	41	10	97	0.00	0.0	1.582	0.032	41	10	5	5
PL.36944	PL.36945	C	1/0 HdCu	7.40Y	123.3	0.00	1.71	9.83	3	71	16	98	0.00	0.0	1.585	0.035	14	3	2	9
PL.35459	PL.36944	C	1/0 HdCu	7.40Y	123.3	0.00	1.71	7.88	3	57	13	97	0.00	0.0	1.604	0.019	3	1	1	7
PL.35549	PL.35459	C	1/0 HdCu	7.40Y	123.3	0.00	1.72	7.52	2	54	13	97	0.00	0.0	1.641	0.037	14	3	1	6
PL.35550	PL.35549	C	1/0 HdCu	7.40Y	123.3	0.00	1.72	5.57	2	40	9	98	0.00	0.0	1.691	0.050	6	1	1	5
PL.35462	PL.35550	C	1/0 HdCu	7.40Y	123.3	0.00	1.72	4.77	2	34	8	97	0.00	0.0	1.734	0.043	28	6	3	4
PL.35463	PL.35462	C	1/0 HdCu	7.40Y	123.3	0.00	1.72	0.89	0	6	1	99	0.00	0.0	1.746	0.012	6	1	1	1
PL.36461	PL.35463	C	#4 ACSR	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	1.760	0.014	0	0	0	0
PL.63021	PL.63020	A	1/0 HdCu	7.40Y	123.4	0.00	1.64	13.79	4	99	23	97	0.00	0.0	1.271	0.002	0	0	0	11
PD.8585	PL.63021	A	25T	7.40Y	123.4	0.00	1.64	13.79	0	99	23	97	0.00	0.0	1.271	0.002	0	0	0	11
PL.64487	PD.8585	A	1/0 HdCu	7.40Y	123.4	0.00	1.64	13.79	4	99	23	97	0.00	0.0	1.288	0.017	0	0	0	11
PL.64488	PL.64487	A	1/0 HdCu	7.40Y	123.3	0.02	1.67	13.79	4	99	23	97	0.01	0.0	1.391	0.103	12	3	1	11
PL.34325	PL.64488	A	#4 ACSR	7.40Y	123.3	0.00	1.67	1.60	1	12	3	97	0.00	0.0	1.430	0.039	12	3	1	1
PL.36943	PL.64488	A	1/0 HdCu	7.40Y	123.3	0.02	1.69	10.59	3	76	18	97	0.01	0.0	1.557	0.166	16	4	2	9
PL.34909	PL.36943	A	1/0 HdCu	7.40Y	123.3	0.00	1.69	5.17	2	37	9	97	0.00	0.0	1.597	0.040	2	0	1	3
PL.51870	PL.34909	A	1/0 HdCu	7.40Y	123.3	0.00	1.70	4.88	2	35	8	97	0.00	0.0	1.637	0.040	0	0	0	2
PL.51871	PL.51870	A	1/0 HdCu	7.40Y	123.3	0.01	1.70	4.88	2	35	8	97	0.00	0.0	1.709	0.072	0	0	0	2
PL.33330	PL.51871	A	#4 ACSR	7.40Y	123.3	0.01	1.71	4.03	3	29	7	97	0.00	0.0	1.781	0.072	29	7	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 1

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

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

PL.34051	PL.51871	A	1/0 AL URD	7.40Y	123.3	0.00	1.70	0.85	1	6	1	99	0.00	0.0	1.771	0.062	6	1	1	1
PL.34682	PL.36943	A	6 A (CWC)	7.40Y	123.3	0.01	1.70	3.18	2	23	5	98	0.00	0.0	1.605	0.048	0	0	0	4
PL.36942	PL.34682	A	6 A (CWC)	7.40Y	123.3	0.00	1.70	1.42	1	10	2	98	0.00	0.0	1.667	0.061	10	2	2	2
PL.34754	PL.34682	A	#2 ACSR	7.40Y	123.3	0.00	1.70	1.75	1	13	3	97	0.00	0.0	1.633	0.027	13	3	2	2
PL.64400	PL.63020	ABC	336 MCM AC	7.40Y	123.3	0.04	1.68	171.57	33	3655	1074	96	0.73	0.0	1.298	0.029	16	8	1	371
PL.64401	PL.64400	ABC	336 MCM AC	7.40Y	123.3	0.05	1.73	170.78	33	3638	1065	96	1.00	0.0	1.339	0.041	0	0	0	370
PL.63655	PL.64401	ABC	336 MCM AC	7.40Y	123.3	0.00	1.73	170.78	33	3637	1063	96	0.01	0.0	1.339	0.000	32	7	4	370
PL.64079	PL.63655	ABC	336 MCM AC	7.39Y	123.2	0.07	1.80	169.32	33	3606	1055	96	1.23	0.0	1.390	0.051	17	4	1	366
PL.61098	PL.64079	ABC	336 MCM AC	7.39Y	123.2	0.05	1.85	167.13	32	3559	1035	96	0.96	0.0	1.431	0.041	12	3	2	364
PL.61097	PL.61098	ABC	336 MCM AC	7.34Y	122.4	0.80	2.64	166.60	32	3546	1030	96	14.89	0.4	2.068	0.637	0	0	0	362
PL.35181	PL.61097	ABC	336 MCM AC	7.34Y	122.4	0.00	2.64	166.60	32	3532	995	96	0.02	0.0	2.069	0.001	0	0	0	362
RG.42	PL.35181	ABC	250kva	7.48Y	124.7	-2.34	0.31	166.60	51	3532	995	96	percent Boost= 1.88 Tap= 3.0				0	0	0	362
PL.35182	RG.42	ABC	336 MCM AC	7.48Y	124.7	0.01	0.32	163.47	31	3532	995	96	0.21	0.0	2.078	0.009	0	0	0	362
PL.61819	PL.35182	ABC	336 MCM AC	7.48Y	124.6	0.05	0.37	163.47	31	3531	995	96	0.87	0.0	2.117	0.039	0	0	0	362
PL.61818	PL.61819	ABC	336 MCM AC	7.47Y	124.5	0.14	0.50	163.47	31	3530	993	96	2.53	0.1	2.229	0.112	0	0	0	362
PL.61820	PL.61818	ABC	336 MCM AC	7.45Y	124.2	0.29	0.80	129.05	25	2776	811	96	4.22	0.2	2.530	0.301	0	0	0	271
PL.61821	PL.61820	ABC	336 MCM AC	7.44Y	124.0	0.22	1.02	129.05	25	2772	801	96	3.24	0.1	2.761	0.231	0	0	0	271
PL.36905	PL.61821	ABC	336 MCM AC	7.44Y	124.0	0.00	1.02	124.00	24	2658	768	96	0.01	0.0	2.762	0.001	0	0	0	249
PD.5123	PL.36905	ABC	200-100WVE	7.44Y	124.0	0.00	1.02	124.00	62	2658	768	96	0.00	0.0	2.762	0.001	0	0	0	249
PL.36906	PD.5123	ABC	336 MCM AC	7.42Y	123.7	0.24	1.26	124.00	24	2658	768	96	3.29	0.1	3.016	0.255	7	2	1	249
PL.63270	PL.36906	ABC	336 MCM AC	7.42Y	123.6	0.13	1.39	123.68	24	2648	759	96	1.82	0.1	3.158	0.141	0	0	0	248
PL.63271	PL.63270	ABC	336 MCM AC	7.41Y	123.5	0.12	1.51	123.68	24	2646	755	96	1.73	0.1	3.292	0.134	0	0	1	248
PL.63269	PL.63271	ABC	336 MCM AC	7.40Y	123.4	0.09	1.61	123.68	24	2645	751	96	1.32	0.0	3.394	0.102	0	0	0	247
PL.62260	PL.63269	ABC	336 MCM AC	7.40Y	123.4	0.03	1.64	123.68	24	2643	747	96	0.45	0.0	3.429	0.035	0	0	0	247
PL.61814	PL.62260	ABC	336 MCM AC	7.40Y	123.4	0.00	1.64	123.68	24	2643	746	96	0.06	0.0	3.434	0.005	0	0	0	247
PD.9303-A	PL.61814	ABC	Closed	7.40Y	123.4	0.00	1.64	123.68	0	2643	746	96	0.00	0.0	3.434	0.005	0	0	0	247
PD.9303-B	PD.9303-A	ABC	Closed	7.40Y	123.4	0.00	1.64	123.68	0	2643	746	96	0.00	0.0	3.434	0.005	0	0	0	247
PL.61815	PD.9303-B	ABC	336 MCM AC	7.40Y	123.3	0.07	1.71	123.68	24	2643	746	96	0.94	0.0	3.507	0.073	6	1	1	247
PL.61817	PL.61815	ABC	336 MCM AC	7.39Y	123.2	0.06	1.77	120.82	23	2580	730	96	0.76	0.0	3.568	0.061	0	0	0	244
PL.37170	PL.61817	ABC	336 MCM AC	7.39Y	123.2	0.05	1.81	120.82	23	2579	728	96	0.62	0.0	3.618	0.050	0	0	0	244
PL.37164	PL.37170	ABC	336 MCM AC	7.39Y	123.2	0.03	1.84	111.49	21	2389	635	97	0.40	0.0	3.659	0.041	139	67	1	241

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 1

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.37165	PL.37164	ABC	336 MCM AC	7.39Y	123.1	0.03	1.87	104.65	20	2250	567	97	0.37	0.0	3.700	0.041	32	15	1	240
PL.36273	PL.37165	ABC	336 MCM AC	7.39Y	123.1	0.02	1.90	103.10	20	2218	551	97	0.28	0.0	3.731	0.032	0	0	0	239
PL.36274	PL.36273	ABC	336 MCM AC	7.38Y	123.1	0.04	1.93	103.10	20	2217	550	97	0.43	0.0	3.779	0.048	0	0	0	239
PL.34229	PL.36274	ABC	6 A (CWC)	7.38Y	123.1	0.00	1.93	1.85	1	37	17	91	0.00	0.0	3.798	0.019	37	17	2	2
PL.33743	PL.34229	ABC	6 A (CWC)	7.38Y	123.1	0.00	1.93	0.00	0	0	0	100	0.00	0.0	3.810	0.012	0	0	0	0
PL.36012	PL.33743	ABC	350 MCM AL	7.38Y	123.1	0.00	1.93	0.00	0	0	0	100	0.00	0.0	3.863	0.053	0	0	0	0
PL.34851	PL.36274	ABC	336 MCM AC	7.38Y	123.0	0.05	1.98	101.29	20	2180	531	97	0.57	0.0	3.845	0.066	0	0	0	237
PD.5874-A	PL.34851	ABC	Closed	7.38Y	123.0	0.00	1.98	101.29	0	2179	530	97	0.00	0.0	3.845	0.066	0	0	0	237
PD.5874-B	PD.5874-A	ABC	Closed	7.38Y	123.0	0.00	1.98	101.29	0	2179	530	97	0.00	0.0	3.845	0.066	0	0	0	237
PL.35228	PD.5874-B	ABC	336 MCM AC	7.38Y	123.0	0.01	1.99	101.29	20	2179	530	97	0.16	0.0	3.864	0.019	17	4	1	237
PL.58949	PL.35228	A	#2 ACSR	7.38Y	123.0	0.00	1.99	14.47	8	104	24	97	0.00	0.0	3.864	0.001	0	0	0	16
PD.8749	PL.58949	A	75QA	7.38Y	123.0	0.00	1.99	14.47	19	104	24	97	0.00	0.0	3.864	0.001	0	0	0	16
PL.58948	PD.8749	A	#2 ACSR	7.38Y	123.0	0.04	2.03	14.47	8	104	24	97	0.03	0.0	3.944	0.080	0	0	0	16
PL.34939	PL.58948	A	#2 ACSR	7.38Y	123.0	0.01	2.05	12.52	7	90	21	97	0.01	0.0	3.983	0.039	2	0	1	11
PL.35993	PL.34939	A	#4 ACSR	7.38Y	123.0	0.00	2.05	2.26	2	16	4	97	0.00	0.0	4.010	0.027	16	4	2	2
PL.35994	PL.34939	A	#2 ACSR	7.38Y	122.9	0.01	2.06	9.98	6	72	17	97	0.01	0.0	4.019	0.036	0	0	0	8
PL.35995	PL.35994	A	#2 ACSR	7.38Y	122.9	0.01	2.06	2.85	2	21	5	97	0.00	0.0	4.106	0.086	9	2	1	2
PL.35996	PL.35995	A	#2 ACSR	7.38Y	122.9	0.00	2.06	1.53	1	11	3	96	0.00	0.0	4.144	0.039	11	3	1	1
PL.34667	PL.35994	A	#2 ACSR	7.38Y	122.9	0.01	2.06	7.13	4	51	12	97	0.00	0.0	4.046	0.027	12	3	1	6
PL.36926	PL.34667	A	#2 ACSR	7.38Y	122.9	0.01	2.07	5.47	3	39	9	97	0.00	0.0	4.107	0.061	0	0	0	5
PL.34538	PL.36926	A	#2 ACSR	7.38Y	122.9	0.00	2.07	2.18	1	16	4	97	0.00	0.0	4.144	0.037	16	4	2	2
PL.36927	PL.36926	A	#2 ACSR	7.38Y	122.9	0.00	2.08	3.29	2	24	5	98	0.00	0.0	4.147	0.040	0	0	0	3
PL.36928	PL.36927	A	#2 ACSR	7.38Y	122.9	0.00	2.08	2.10	1	15	3	98	0.00	0.0	4.197	0.049	15	3	2	2
PL.34470	PL.36927	A	#2 ACSR	7.38Y	122.9	0.00	2.08	0.00	0	0	0	100	0.00	0.0	4.202	0.055	0	0	0	0
PL.34255	PL.36927	A	#2 ACSR	7.38Y	122.9	0.00	2.08	1.20	1	9	2	98	0.00	0.0	4.194	0.047	9	2	1	1
PL.34254	PL.58948	A	#2 ACSR	7.38Y	123.0	0.00	2.03	1.95	1	14	3	98	0.00	0.0	3.971	0.026	14	3	5	5
PL.35905	PL.35228	ABC	336 MCM AC	7.38Y	123.0	0.02	2.01	95.68	18	2058	502	97	0.23	0.0	3.894	0.030	0	0	0	220
PL.35984	PL.35905	ABC	336 MCM AC	7.37Y	122.9	0.07	2.09	95.68	18	2058	501	97	0.82	0.0	4.000	0.107	0	0	0	220
PL.33602	PL.35984	ABC	336 MCM AC	7.37Y	122.9	0.04	2.13	87.81	17	1888	460	97	0.40	0.0	4.062	0.062	0	0	0	198
PL.33605	PL.33602	ABC	336 MCM AC	7.37Y	122.8	0.04	2.17	87.81	17	1887	459	97	0.41	0.0	4.125	0.063	0	0	1	198
PL.35439	PL.33605	ABC	336 MCM AC	7.37Y	122.8	0.00	2.17	1.00	0	20	10	89	0.00	0.0	4.126	0.001	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 1

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.5087	PL.35439	ABC	50QA	7.37Y	122.8	0.00	2.17	1.00	2	20	10	89	0.00	0.0	4.126	0.001	0	0	0	1
PL.35440	PD.5087	ABC	336 MCM AC	7.37Y	122.8	0.00	2.17	1.00	0	20	10	89	0.00	0.0	4.142	0.017	20	10	1	1
PL.35438	PL.35440	ABC	336 MCM AC	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	4.159	0.017	0	0	0	0
PL.63316	PL.35438	ABC	336 MCM AC	7.37Y	122.8	0.00	2.17	0.00	0	0	0	100	0.00	0.0	4.182	0.023	0	0	0	0
PL.34156	PL.33605	ABC	336 MCM AC	7.37Y	122.8	0.02	2.18	86.84	17	1867	449	97	0.19	0.0	4.155	0.030	15	3	2	196
PL.35436	PL.34156	A	6 A (CWC)	7.37Y	122.8	0.00	2.18	1.31	1	9	2	98	0.00	0.0	4.156	0.001	0	0	0	1
PD.5799	PL.35436	A	75QA	7.37Y	122.8	0.00	2.18	1.31	2	9	2	98	0.00	0.0	4.156	0.001	0	0	0	1
PL.35437	PD.5799	A	6 A (CWC)	7.37Y	122.8	0.00	2.19	1.31	1	9	2	98	0.00	0.0	4.242	0.086	9	2	1	1
PL.34990	PL.34156	ABC	336 MCM AC	7.37Y	122.8	0.02	2.21	85.71	17	1842	443	97	0.24	0.0	4.193	0.038	11	3	1	193
PL.36562	PL.34990	ABC	336 MCM AC	7.37Y	122.8	0.02	2.23	85.18	16	1831	439	97	0.21	0.0	4.228	0.035	0	0	0	192
PL.36563	PL.36562	ABC	336 MCM AC	7.36Y	122.7	0.02	2.25	85.18	16	1831	439	97	0.24	0.0	4.268	0.039	17	8	1	192
PL.34989	PL.36563	ABC	336 MCM AC	7.36Y	122.7	0.02	2.27	84.32	16	1813	430	97	0.23	0.0	4.306	0.038	0	0	0	191
PL.35799	PL.34989	B	#4 ACSR	7.36Y	122.7	0.00	2.28	5.54	4	40	9	98	0.00	0.0	4.307	0.001	0	0	0	5
PD.5843	PL.35799	B	60QA	7.36Y	122.7	0.00	2.28	5.54	9	40	9	98	0.00	0.0	4.307	0.001	0	0	0	5
PL.35800	PD.5843	B	#4 ACSR	7.36Y	122.7	0.02	2.29	5.54	4	40	9	98	0.01	0.0	4.381	0.073	0	0	0	5
PL.34271	PL.35800	B	#4 ACSR	7.36Y	122.7	0.00	2.30	5.54	4	40	9	98	0.00	0.0	4.400	0.019	11	3	2	5
PL.34987	PL.34271	B	#4 ACSR	7.36Y	122.7	0.01	2.30	4.02	3	29	7	97	0.00	0.0	4.456	0.056	15	4	2	3
PL.34988	PL.34987	B	#4 ACSR	7.36Y	122.7	0.00	2.31	1.90	1	14	3	98	0.00	0.0	4.523	0.067	14	3	1	1
PL.34270	PL.34989	ABC	336 MCM AC	7.36Y	122.7	0.03	2.31	82.48	16	1773	420	97	0.33	0.0	4.364	0.058	3	1	1	186
PL.34267	PL.34270	ABC	336 MCM AC	7.36Y	122.7	0.02	2.32	82.36	16	1770	419	97	0.15	0.0	4.391	0.027	0	0	0	185
PL.52719	PL.34267	ABC	336 MCM AC	7.36Y	122.7	0.01	2.33	82.36	16	1770	418	97	0.09	0.0	4.407	0.016	0	0	0	185
PL.52721	PL.52719	ABC	#3/0 ACSR	7.35Y	122.6	0.09	2.42	78.57	26	1688	399	97	0.97	0.1	4.501	0.093	0	0	0	174
PL.35168	PL.52721	ABC	#3/0 ACSR	7.35Y	122.6	0.00	2.43	78.57	26	1687	398	97	0.02	0.0	4.503	0.002	0	0	0	174
PD.5867	PL.35168	ABC	140L	7.35Y	122.6	0.00	2.43	78.57	56	1687	398	97	0.00	0.0	4.503	0.002	0	0	0	174
PL.35173	PD.5867	ABC	#3/0 ACSR	7.35Y	122.5	0.03	2.46	78.57	26	1687	398	97	0.32	0.0	4.534	0.031	2	1	1	174
PL.35987	PL.35173	A	6 A (CWC)	7.35Y	122.5	0.00	2.46	2.77	2	20	5	97	0.00	0.0	4.534	0.000	0	0	0	3
PD.5126	PL.35987	A	75QA	7.35Y	122.5	0.00	2.46	2.77	4	20	5	97	0.00	0.0	4.534	0.000	0	0	0	3
PL.35174	PD.5126	A	6 A (CWC)	7.35Y	122.5	0.00	2.46	2.77	2	20	5	97	0.00	0.0	4.576	0.042	3	1	1	3
PL.35175	PL.35174	A	6 A (CWC)	7.35Y	122.5	0.00	2.46	2.33	2	17	4	97	0.00	0.0	4.637	0.060	17	4	2	2
PL.35786	PL.35173	ABC	#3/0 ACSR	7.35Y	122.5	0.03	2.49	77.38	26	1661	392	97	0.34	0.0	4.568	0.034	0	0	1	167
PL.35012	PL.35786	ABC	#3/0 ACSR	7.35Y	122.4	0.08	2.56	77.36	26	1661	391	97	0.80	0.0	4.648	0.080	20	5	2	166

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 1

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.35013	PL.35012	ABC	#3/0 ACSR	7.34Y	122.4	0.02	2.59	76.45	25	1640	385	97	0.25	0.0	4.673	0.025	14	3	1	164
PL.35014	PL.35013	ABC	#3/0 ACSR	7.34Y	122.4	0.05	2.63	75.81	25	1626	382	97	0.48	0.0	4.723	0.050	7	2	1	163
PL.35939	PL.35014	ABC	#3/0 ACSR	7.34Y	122.3	0.02	2.66	68.08	23	1460	343	97	0.22	0.0	4.752	0.029	32	7	3	143
PL.33109	PL.35939	ABC	#3/0 ACSR	7.34Y	122.3	0.05	2.70	66.61	22	1428	335	97	0.44	0.0	4.812	0.060	25	6	3	140
PL.36919	PL.33109	A	#4 ACSR	7.34Y	122.3	0.00	2.70	0.63	0	4	1	97	0.00	0.0	4.813	0.001	0	0	0	2
PD.5844	PL.36919	A	75QA	7.34Y	122.3	0.00	2.70	0.63	1	4	1	97	0.00	0.0	4.813	0.001	0	0	0	2
PL.36920	PD.5844	A	#4 ACSR	7.34Y	122.3	0.00	2.70	0.63	0	4	1	97	0.00	0.0	4.839	0.026	4	1	2	2
PL.33110	PL.33109	ABC	#3/0 ACSR	7.33Y	122.2	0.07	2.77	65.25	22	1398	328	97	0.61	0.0	4.898	0.086	11	3	1	135
PL.34469	PL.33110	ABC	#3/0 ACSR	7.33Y	122.2	0.05	2.82	62.46	21	1338	313	97	0.42	0.0	4.964	0.066	27	6	1	132
PL.35796	PL.34469	ABC	#3/0 ACSR	7.33Y	122.1	0.07	2.89	47.28	16	1012	237	97	0.44	0.0	5.084	0.120	13	3	3	100
PL.36035	PL.35796	ABC	#3/0 ACSR	7.32Y	122.1	0.04	2.93	46.67	16	999	233	97	0.27	0.0	5.158	0.074	10	2	1	97
PL.36907	PL.36035	C	#2 ACSR	7.32Y	122.1	0.01	2.94	4.98	3	36	8	98	0.00	0.0	5.201	0.043	15	3	1	3
PL.36908	PL.36907	C	#2 ACSR	7.32Y	122.1	0.00	2.94	2.88	2	21	5	97	0.00	0.0	5.220	0.019	21	5	2	2
PL.36036	PL.36035	ABC	#3/0 ACSR	7.32Y	122.0	0.05	2.98	44.07	15	943	220	97	0.29	0.0	5.249	0.090	0	0	0	92
PL.36275	PL.36036	ABC	#3/0 ACSR	7.32Y	122.0	0.01	3.00	43.12	14	922	215	97	0.09	0.0	5.277	0.028	32	7	4	89
PL.36276	PL.36275	ABC	#3/0 ACSR	7.32Y	122.0	0.01	3.01	41.61	14	890	208	97	0.07	0.0	5.301	0.024	13	3	1	85
PL.33365	PL.36276	ABC	#3/0 ACSR	7.32Y	122.0	0.04	3.04	41.01	14	877	204	97	0.20	0.0	5.373	0.072	0	0	0	84
PL.36884	PL.33365	ABC	#3/0 ACSR	7.32Y	121.9	0.02	3.07	27.54	9	589	136	97	0.09	0.0	5.447	0.074	0	0	0	50
PL.36886	PL.36884	A	#4 ACSR	7.32Y	121.9	0.00	3.07	2.40	2	17	4	97	0.00	0.0	5.448	0.001	0	0	0	3
PD.5113	PL.36886	A	75QA	7.32Y	121.9	0.00	3.07	2.40	3	17	4	97	0.00	0.0	5.448	0.001	0	0	0	3
PL.36887	PD.5113	A	#4 ACSR	7.32Y	121.9	0.00	3.07	2.40	2	17	4	97	0.00	0.0	5.484	0.036	17	4	3	3
PL.36885	PL.36884	ABC	#3/0 ACSR	7.31Y	121.9	0.04	3.10	26.74	9	572	132	97	0.13	0.0	5.559	0.112	18	4	1	47
PL.35279	PL.36885	ABC	#3/0 ACSR	7.31Y	121.9	0.00	3.10	3.54	1	76	17	98	0.00	0.0	5.577	0.018	1	0	1	8
PL.35349	PL.35279	ABC	#3/0 ACSR	7.31Y	121.9	0.00	3.11	3.49	1	75	17	98	0.00	0.0	5.628	0.051	16	4	1	7
PL.36246	PL.35349	ABC	#3/0 ACSR	7.31Y	121.9	0.00	3.11	2.73	1	58	13	98	0.00	0.0	5.656	0.028	11	3	1	6
PL.34907	PL.36246	ABC	#3/0 ACSR	7.31Y	121.9	0.00	3.11	2.19	1	47	11	97	0.00	0.0	5.744	0.088	30	7	2	5
PL.34908	PL.34907	ABC	#3/0 ACSR	7.31Y	121.9	0.00	3.11	0.79	0	17	4	97	0.00	0.0	5.799	0.055	8	2	1	3
PL.61825	PL.34908	ABC	#3/0 ACSR	7.31Y	121.9	0.00	3.11	0.40	0	9	2	98	0.00	0.0	5.881	0.082	0	0	0	2
PL.61827	PL.61825	ABC	#3/0 ACSR	7.31Y	121.9	0.00	3.11	0.00	0	0	0	100	0.00	0.0	5.962	0.081	0	0	0	0
PD.9304-A	PL.61827	ABC	Open	7.31Y	121.9	0.00	3.11	0.00	0	0	0	100	0.00	0.0	5.962	0.081	0	0	0	0
PL.61826	PL.61825	A	6 A (CWC)	7.31Y	121.9	0.00	3.11	1.20	1	9	2	98	0.00	0.0	5.882	0.001	0	0	0	2

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

Balanced Voltage Drop Report
Source: West London 1

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.5806	PL.61826	A	60QA	7.31Y	121.9	0.00	3.11	1.20	2	9	2	98	0.00	0.0	5.882	0.001	0	0	0	2
PL.34927	PD.5806	A	6 A (CWC)	7.31Y	121.9	0.00	3.11	1.20	1	9	2	98	0.00	0.0	5.967	0.086	9	2	2	2
PL.36851	PL.36885	B	1/0 AL URD	7.31Y	121.9	0.00	3.11	33.92	20	242	56	97	0.00	0.0	5.561	0.002	0	0	0	21
PD.5073	PL.36851	B	75QA	7.31Y	121.9	0.00	3.11	33.92	45	242	56	97	0.00	0.0	5.561	0.002	0	0	0	21
PL.36852	PD.5073	B	1/0 AL URD	7.31Y	121.8	0.05	3.15	33.92	20	242	56	97	0.09	0.0	5.607	0.047	23	5	1	21
PL.36853	PL.36852	B	1/0 AL URD	7.31Y	121.8	0.06	3.21	30.73	18	219	51	97	0.10	0.0	5.673	0.065	13	3	2	20
PL.35278	PL.36853	B	1/0 AL URD	7.30Y	121.7	0.05	3.26	28.92	17	206	48	97	0.07	0.0	5.728	0.055	28	6	1	18
PL.36865	PL.35278	B	1/0 AL URD	7.30Y	121.7	0.04	3.30	24.98	15	178	41	97	0.06	0.0	5.785	0.057	23	5	3	17
PL.36866	PL.36865	B	1/0 AL URD	7.30Y	121.7	0.03	3.33	21.82	13	155	36	97	0.04	0.0	5.832	0.048	17	4	1	14
PL.36867	PL.36866	B	1/0 AL URD	7.30Y	121.6	0.04	3.37	19.42	11	138	32	97	0.04	0.0	5.897	0.064	11	2	1	13
PL.36868	PL.36867	B	1/0 AL URD	7.30Y	121.6	0.01	3.38	17.90	11	127	29	97	0.01	0.0	5.923	0.027	8	2	1	12
PL.36880	PL.36868	B	1/0 AL URD	7.30Y	121.6	0.03	3.41	16.84	10	120	28	97	0.02	0.0	5.982	0.058	28	6	3	11
PL.36881	PL.36880	B	1/0 AL URD	7.29Y	121.6	0.01	3.42	12.95	8	92	21	97	0.01	0.0	6.017	0.035	9	2	2	8
PL.36882	PL.36881	B	1/0 AL URD	7.29Y	121.6	0.01	3.44	11.62	7	83	19	97	0.01	0.0	6.058	0.042	29	7	2	6
PL.36883	PL.36882	B	1/0 AL URD	7.29Y	121.6	0.01	3.45	7.51	4	53	12	98	0.00	0.0	6.120	0.061	12	3	1	4
PL.34468	PL.36883	B	1/0 AL URD	7.29Y	121.6	0.00	3.45	0.00	0	0	0	100	0.00	0.0	6.149	0.030	0	0	0	0
PL.36879	PL.36883	B	1/0 AL URD	7.29Y	121.5	0.00	3.45	5.77	3	41	9	98	0.00	0.0	6.154	0.034	41	9	3	3
PL.36878	PL.36879	B	1/0 AL URD	7.29Y	121.5	0.00	3.45	0.00	0	0	0	100	0.00	0.0	6.244	0.090	0	0	0	0
PL.36849	PL.36885	B	1/0 AL URD	7.31Y	121.9	0.00	3.11	33.22	20	237	55	97	0.00	0.0	5.561	0.002	0	0	0	17
PD.5069	PL.36849	B	75QA	7.31Y	121.9	0.00	3.11	33.22	44	237	55	97	0.00	0.0	5.561	0.002	0	0	0	17
PL.36850	PD.5069	B	1/0 AL URD	7.31Y	121.9	0.04	3.15	33.22	20	237	55	97	0.07	0.0	5.602	0.041	24	6	2	17
PL.35642	PL.36850	B	1/0 AL URD	7.31Y	121.8	0.06	3.20	29.82	18	212	49	97	0.10	0.0	5.667	0.065	18	4	1	15
PL.36854	PL.35642	B	1/0 AL URD	7.31Y	121.8	0.04	3.25	27.26	16	194	45	97	0.07	0.0	5.721	0.054	15	4	1	14
PL.36855	PL.36854	B	1/0 AL URD	7.30Y	121.7	0.03	3.28	25.10	15	179	41	97	0.04	0.0	5.763	0.042	13	3	1	13
PL.36856	PL.36855	B	1/0 AL URD	7.30Y	121.7	0.03	3.31	23.33	14	166	38	97	0.03	0.0	5.804	0.040	26	6	1	12
PL.36857	PL.36856	B	1/0 AL URD	7.30Y	121.7	0.02	3.33	19.61	12	139	32	97	0.03	0.0	5.847	0.044	23	5	1	11
PL.36858	PL.36857	B	1/0 AL URD	7.30Y	121.6	0.02	3.36	16.38	10	117	27	97	0.02	0.0	5.898	0.051	19	4	4	10
PL.36859	PL.36858	B	1/0 AL URD	7.30Y	121.6	0.03	3.38	13.77	8	98	23	97	0.02	0.0	5.965	0.067	22	5	1	6
PL.36860	PL.36859	B	1/0 AL URD	7.30Y	121.6	0.01	3.39	10.62	6	76	17	98	0.01	0.0	6.005	0.040	30	7	2	5
PL.36861	PL.36860	B	1/0 AL URD	7.30Y	121.6	0.01	3.40	6.41	4	46	11	97	0.00	0.0	6.053	0.047	16	4	1	3
PL.36862	PL.36861	B	1/0 AL URD	7.30Y	121.6	0.01	3.40	4.18	2	30	7	97	0.00	0.0	6.116	0.063	21	5	1	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 1

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.36863	PL.36862	B	1/0 AL URD	7.30Y	121.6	0.00	3.41	1.22	1	9	2	98	0.00	0.0	6.182	0.066	9	2	1	1
PL.36864	PL.36863	B	1/0 AL URD	7.30Y	121.6	0.00	3.41	0.00	0	0	0	100	0.00	0.0	6.184	0.002	0	0	0	0
PL.33888	PL.33365	ABC	#3/0 ACSR	7.32Y	122.0	0.01	3.05	6.63	2	142	34	97	0.00	0.0	5.437	0.064	4	1	1	16
PL.60979	PL.33888	C	#3/0 ACSR	7.32Y	122.0	0.00	3.05	1.47	0	11	2	98	0.00	0.0	5.463	0.026	0	0	0	2
PL.63301	PL.60979	C	1/0 AL URD	7.32Y	121.9	0.02	3.07	1.47	1	11	2	98	0.00	0.0	5.832	0.369	0	0	0	2
PL.63325	PL.63301	C	1/0 AL URD	7.32Y	121.9	0.00	3.07	1.47	1	11	2	98	0.00	0.0	5.872	0.040	11	2	2	2
PL.63326	PL.63325	C	1/0 AL URD	7.32Y	121.9	0.00	3.07	0.00	0	0	0	100	0.00	0.0	5.951	0.079	0	0	0	0
PL.63302	PL.63326	C	1/0 AL URD	7.32Y	121.9	0.00	3.07	0.00	0	0	0	100	0.00	0.0	6.048	0.097	0	0	0	0
PL.34155	PL.33888	B	#2 ACSR	7.32Y	122.0	0.00	3.05	1.28	1	9	2	98	0.00	0.0	5.493	0.055	9	2	1	1
PL.35795	PL.34155	B	1/0 AL URD	7.32Y	122.0	0.00	3.05	0.00	0	0	0	100	0.00	0.0	5.493	0.001	0	0	0	0
PL.33899	PL.33888	ABC	#1/0 ACSR	7.32Y	121.9	0.00	3.05	5.55	2	118	28	97	0.00	0.0	5.474	0.037	13	3	2	12
PL.36889	PL.33899	B	1/0 AL URD	7.32Y	121.9	0.00	3.05	14.10	8	101	23	98	0.00	0.0	5.474	0.000	0	0	0	9
PD.5192	PL.36889	B	75QA	7.32Y	121.9	0.00	3.05	14.10	19	101	23	98	0.00	0.0	5.474	0.000	0	0	0	9
PL.36890	PD.5192	B	1/0 AL URD	7.32Y	121.9	0.01	3.06	14.10	8	101	23	98	0.01	0.0	5.490	0.016	0	0	0	9
PL.36891	PL.36890	B	1/0 AL URD	7.32Y	121.9	0.01	3.07	14.10	8	101	23	98	0.01	0.0	5.509	0.019	19	4	2	9
PL.36892	PL.36891	B	1/0 AL URD	7.32Y	121.9	0.01	3.07	11.46	7	82	19	97	0.00	0.0	5.525	0.016	18	4	2	7
PL.36893	PL.36892	B	1/0 AL URD	7.32Y	121.9	0.01	3.08	8.93	5	64	15	97	0.00	0.0	5.558	0.033	20	5	2	5
PL.57948	PL.36893	B	1/0 AL URD	7.31Y	121.9	0.00	3.08	6.15	4	44	10	98	0.00	0.0	5.590	0.032	23	5	1	3
PL.57949	PL.57948	B	1/0 AL URD	7.31Y	121.9	0.00	3.09	2.92	2	21	5	97	0.00	0.0	5.611	0.021	10	2	1	2
PL.36895	PL.57949	B	1/0 AL URD	7.31Y	121.9	0.00	3.09	1.45	1	10	2	98	0.00	0.0	5.625	0.015	10	2	1	1
PL.36894	PL.36895	B	1/0 AL URD	7.31Y	121.9	0.00	3.09	0.00	0	0	0	100	0.00	0.0	5.649	0.023	0	0	0	0
PL.33665	PL.33899	ABC	#1/0 ACSR	7.32Y	121.9	0.00	3.05	0.23	0	5	2	93	0.00	0.0	5.483	0.010	5	2	1	1
PL.36888	PL.33365	C	6 A (CWC)	7.32Y	122.0	0.00	3.04	20.53	15	146	34	97	0.00	0.0	5.374	0.001	0	0	0	18
PD.5805	PL.36888	C	75QA	7.32Y	122.0	0.00	3.04	20.53	27	146	34	97	0.00	0.0	5.374	0.001	0	0	0	18
PL.35113	PD.5805	C	6 A (CWC)	7.32Y	121.9	0.04	3.08	20.53	15	146	34	97	0.04	0.0	5.413	0.039	7	2	1	18
PL.35792	PL.35113	C	6 A (CWC)	7.31Y	121.9	0.05	3.13	19.51	14	139	32	97	0.05	0.0	5.468	0.055	0	0	0	17
PL.35200	PL.35792	C	6 A (CWC)	7.31Y	121.9	0.00	3.13	1.30	1	9	2	98	0.00	0.0	5.525	0.057	9	2	1	1
PL.35793	PL.35792	C	6 A (CWC)	7.31Y	121.8	0.07	3.19	18.21	13	130	30	97	0.06	0.0	5.549	0.081	2	0	1	16
PL.34473	PL.35793	C	6 A (CWC)	7.30Y	121.7	0.06	3.26	10.68	8	76	18	97	0.04	0.0	5.679	0.130	0	0	0	10
PL.34474	PL.34473	C	6 A (CWC)	7.30Y	121.7	0.03	3.29	10.68	8	76	18	97	0.02	0.0	5.747	0.068	12	3	1	10
PL.34475	PL.34474	C	6 A (CWC)	7.30Y	121.7	0.03	3.31	9.03	6	64	15	97	0.01	0.0	5.821	0.074	14	3	4	9

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

Balanced Voltage Drop Report
Source: West London 1

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.36896	PL.34475	C	6 A (CWC)	7.30Y	121.7	0.01	3.32	7.01	5	50	12	97	0.00	0.0	5.847	0.026	14	3	1	5
PL.36897	PL.36896	C	6 A (CWC)	7.30Y	121.7	0.01	3.33	5.04	4	36	8	98	0.00	0.0	5.882	0.036	22	5	3	4
PL.36898	PL.36897	C	6 A (CWC)	7.30Y	121.7	0.00	3.33	1.98	1	14	3	98	0.00	0.0	5.908	0.026	14	3	1	1
PL.35794	PL.35793	C	6 A (CWC)	7.31Y	121.8	0.02	3.21	7.25	5	52	12	97	0.01	0.0	5.599	0.049	0	0	0	5
PL.37157	PL.35794	C	6 A (CWC)	7.31Y	121.8	0.00	3.21	1.38	1	10	2	98	0.00	0.0	5.727	0.128	9	2	1	2
PL.56345	PL.37157	C	6 A (CWC)	7.31Y	121.8	0.00	3.21	0.10	0	1	0	100	0.00	0.0	5.745	0.018	1	0	1	1
PL.56344	PL.56345	C	6 A (CWC)	7.31Y	121.8	0.00	3.21	0.00	0	0	0	100	0.00	0.0	5.767	0.023	0	0	0	0
PL.35626	PL.35794	C	#4 ACSR	7.31Y	121.8	0.00	3.21	1.90	1	14	3	98	0.00	0.0	5.658	0.059	14	3	1	1
PL.63289	PL.35794	C	1/0 AL URD	7.31Y	121.8	0.02	3.23	3.98	2	28	7	97	0.00	0.0	5.773	0.174	12	3	1	2
PL.63290	PL.63289	C	1/0 AL URD	7.31Y	121.8	0.01	3.24	2.27	1	16	4	97	0.00	0.0	6.027	0.255	16	4	1	1
PL.61120	PL.63290	C	1/0 AL URD	7.31Y	121.8	0.00	3.24	0.00	0	0	0	100	0.00	0.0	6.211	0.183	0	0	0	0
PL.60980	PL.61120	C	1/0 AL URD	7.31Y	121.8	0.00	3.24	0.00	0	0	0	100	0.00	0.0	6.222	0.011	0	0	0	0
PL.36278	PL.36036	C	6 A (CWC)	7.32Y	122.0	0.00	2.98	2.83	2	20	5	97	0.00	0.0	5.249	0.001	0	0	0	3
PD.5704	PL.36278	C	75QA	7.32Y	122.0	0.00	2.98	2.83	4	20	5	97	0.00	0.0	5.249	0.001	0	0	0	3
PL.36245	PD.5704	C	6 A (CWC)	7.32Y	122.0	0.01	2.99	2.83	2	20	5	97	0.00	0.0	5.303	0.054	0	0	0	3
PL.36277	PL.36245	C	6 A (CWC)	7.32Y	122.0	0.00	2.99	2.83	2	20	5	97	0.00	0.0	5.329	0.026	20	5	3	3
PL.36037	PL.36035	A	6 A (CWC)	7.32Y	122.1	0.00	2.93	1.35	1	10	2	98	0.00	0.0	5.159	0.001	0	0	0	1
PD.5703	PL.36037	A	75QA	7.32Y	122.1	0.00	2.93	1.35	2	10	2	98	0.00	0.0	5.159	0.001	0	0	0	1
PL.36038	PD.5703	A	6 A (CWC)	7.32Y	122.1	0.00	2.93	1.35	1	10	2	98	0.00	0.0	5.240	0.081	10	2	1	1
PL.36051	PL.34469	ABC	#1/0 ACSR	7.33Y	122.2	0.00	2.82	13.91	6	298	69	97	0.00	0.0	4.968	0.004	0	0	0	31
PD.5702	PL.36051	ABC	25QA	7.33Y	122.2	0.00	2.82	13.91	56	298	69	97	0.00	0.0	4.968	0.004	0	0	0	31
PL.36915	PD.5702	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.84	13.91	6	298	69	97	0.03	0.0	5.022	0.053	10	2	1	31
PL.34852	PL.36915	ABC	#1/0 ACSR	7.33Y	122.2	0.01	2.85	13.46	6	288	67	97	0.03	0.0	5.079	0.058	32	7	3	30
PL.34102	PL.34852	ABC	#1/0 ACSR	7.33Y	122.1	0.04	2.89	11.98	5	257	59	97	0.07	0.0	5.266	0.186	0	0	0	27
PL.33668	PL.34102	C	#1/0 ACSR	7.33Y	122.1	0.00	2.89	2.52	1	18	4	98	0.00	0.0	5.285	0.019	18	4	1	1
PL.35510	PL.34102	C	#4 ACSR	7.33Y	122.1	0.00	2.89	24.42	19	174	40	97	0.00	0.0	5.267	0.001	0	0	0	19
PD.5803	PL.35510	C	75QA	7.33Y	122.1	0.00	2.89	24.42	33	174	40	97	0.00	0.0	5.267	0.001	0	0	0	19
PL.36909	PD.5803	C	#4 ACSR	7.33Y	122.1	0.03	2.92	24.42	19	174	40	97	0.03	0.0	5.292	0.026	11	2	2	19
PL.36910	PL.36909	C	#4 ACSR	7.32Y	122.0	0.04	2.95	22.95	18	164	38	97	0.05	0.0	5.331	0.038	14	3	1	17
PL.34793	PL.36910	C	#4 ACSR	7.32Y	122.0	0.05	3.00	18.68	14	133	31	97	0.04	0.0	5.388	0.058	12	3	1	15
PL.57916	PL.34793	C	#4 ACSR	7.32Y	122.0	0.00	3.00	1.88	1	13	3	97	0.00	0.0	5.411	0.022	13	3	3	3

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Balanced Voltage Drop Report
Source: West London 1

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.34792	PL.34793	C	#4 ACSR	7.32Y	122.0	0.02	3.02	15.11	12	108	25	97	0.02	0.0	5.417	0.029	0	0	0	11
PL.35320	PL.34792	C	#2 ACSR	7.32Y	122.0	0.00	3.02	1.18	1	8	2	97	0.00	0.0	5.433	0.016	8	2	1	1
PL.33923	PL.34792	C	#2 ACSR	7.32Y	122.0	0.00	3.02	1.59	1	11	3	96	0.00	0.0	5.439	0.022	11	3	1	1
PL.34791	PL.34792	C	#4 ACSR	7.32Y	122.0	0.03	3.04	12.34	9	88	20	98	0.02	0.0	5.469	0.051	7	2	1	9
PL.33754	PL.34791	C	#4 ACSR	7.32Y	122.0	0.00	3.04	1.66	1	12	3	97	0.00	0.0	5.486	0.017	12	3	1	1
PL.33924	PL.34791	C	#4 ACSR	7.32Y	121.9	0.02	3.06	9.73	7	69	16	97	0.01	0.0	5.521	0.053	45	10	5	7
PL.33925	PL.33924	C	#4 ACSR	7.32Y	121.9	0.00	3.06	3.37	3	24	6	97	0.00	0.0	5.566	0.045	24	6	2	2
PL.35199	PL.36910	C	#4 ACSR	7.32Y	122.0	0.00	2.95	2.28	2	16	4	97	0.00	0.0	5.364	0.034	16	4	1	1
PL.35511	PL.34102	C	#4 ACSR	7.33Y	122.1	0.00	2.89	9.00	7	64	15	97	0.00	0.0	5.267	0.001	0	0	0	7
PD.5804	PL.35511	C	75QA	7.33Y	122.1	0.00	2.89	9.00	12	64	15	97	0.00	0.0	5.267	0.001	0	0	0	7
PL.36911	PD.5804	C	#4 ACSR	7.33Y	122.1	0.01	2.90	9.00	7	64	15	97	0.01	0.0	5.296	0.030	5	1	2	7
PL.36912	PL.36911	C	#4 ACSR	7.32Y	122.1	0.02	2.92	8.37	6	60	14	97	0.01	0.0	5.349	0.053	13	3	1	5
PL.36913	PL.36912	C	#4 ACSR	7.32Y	122.1	0.01	2.93	6.51	5	46	11	97	0.00	0.0	5.389	0.040	0	0	0	4
PL.36914	PL.36913	C	#4 ACSR	7.32Y	122.1	0.00	2.93	4.50	3	32	7	98	0.00	0.0	5.431	0.042	32	7	2	2
PL.33525	PL.36913	C	#2 ACSR	7.32Y	122.1	0.00	2.93	2.02	1	14	3	98	0.00	0.0	5.407	0.018	14	3	2	2
PL.34192	PL.33110	C	6 A (CWC)	7.33Y	122.2	0.00	2.77	6.78	5	48	11	97	0.00	0.0	4.902	0.004	0	0	0	2
PD.5778	PL.34192	C	75QA	7.33Y	122.2	0.00	2.77	6.78	9	48	11	97	0.00	0.0	4.902	0.004	0	0	0	2
PL.36916	PD.5778	C	6 A (CWC)	7.33Y	122.2	0.01	2.78	6.78	5	48	11	97	0.00	0.0	4.933	0.031	25	6	1	2
PL.36917	PL.36916	C	6 A (CWC)	7.33Y	122.2	0.01	2.79	3.22	2	23	5	98	0.00	0.0	4.986	0.054	0	0	0	1
PL.36918	PL.36917	C	6 A (CWC)	7.33Y	122.2	0.00	2.79	0.00	0	0	0	100	0.00	0.0	5.040	0.054	0	0	0	0
PL.34729	PL.36917	C	#2 ACSR	7.33Y	122.2	0.00	2.79	3.22	2	23	5	98	0.00	0.0	5.053	0.066	23	5	1	1
PL.36428	PL.35014	A	6 A (CWC)	7.34Y	122.4	0.00	2.63	22.27	16	159	37	97	0.00	0.0	4.724	0.001	0	0	0	19
PD.5127	PL.36428	A	30T	7.34Y	122.4	0.00	2.63	22.27	0	159	37	97	0.00	0.0	4.724	0.001	0	0	0	19
PL.36429	PD.5127	A	6 A (CWC)	7.34Y	122.3	0.03	2.66	22.27	16	159	37	97	0.04	0.0	4.755	0.031	8	2	1	19
PL.36095	PL.36429	A	6 A (CWC)	7.34Y	122.3	0.07	2.73	19.20	14	137	32	97	0.07	0.0	4.837	0.082	19	4	1	15
PL.36096	PL.36095	A	6 A (CWC)	7.33Y	122.2	0.04	2.77	16.59	12	119	27	98	0.03	0.0	4.891	0.054	15	3	2	14
PL.36097	PL.36096	A	6 A (CWC)	7.33Y	122.2	0.04	2.80	14.49	10	104	24	97	0.03	0.0	4.957	0.067	27	6	3	12
PL.36098	PL.36097	A	6 A (CWC)	7.33Y	122.2	0.01	2.82	10.75	8	77	18	97	0.01	0.0	4.987	0.029	9	2	1	9
PL.36099	PL.36098	A	6 A (CWC)	7.33Y	122.2	0.02	2.83	9.44	7	67	16	97	0.01	0.0	5.023	0.036	0	0	0	8
PL.34539	PL.36099	A	6 A (CWC)	7.33Y	122.2	0.00	2.84	5.22	4	37	9	97	0.00	0.0	5.061	0.039	37	9	5	5
PL.36100	PL.36099	A	6 A (CWC)	7.33Y	122.2	0.01	2.84	4.22	3	30	7	97	0.00	0.0	5.090	0.068	10	2	1	3

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

Balanced Voltage Drop Report
Source: West London 1

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.36101	PL.36100	A	6 A (CWC)	7.33Y	122.2	0.00	2.85	2.82	2	20	5	97	0.00	0.0	5.103	0.013	11	2	1	2
PL.36102	PL.36101	A	6 A (CWC)	7.33Y	122.2	0.00	2.85	1.35	1	10	2	98	0.00	0.0	5.152	0.048	10	2	1	1
PL.36013	PL.36429	A	6 A (CWC)	7.34Y	122.3	0.00	2.66	1.92	1	14	3	98	0.00	0.0	4.780	0.026	14	3	3	3
PL.35985	PL.35173	C	#4 ACSR	7.35Y	122.5	0.00	2.46	0.48	0	3	1	95	0.00	0.0	4.592	0.058	2	0	2	3
PL.35986	PL.35985	C	#4 ACSR	7.35Y	122.5	0.00	2.46	0.21	0	1	0	100	0.00	0.0	4.646	0.054	1	0	1	1
PL.35166	PL.35173	A	6 A (CWC)	7.35Y	122.5	0.00	2.46	0.00	0	0	0	100	0.00	0.0	4.534	0.000	0	0	0	0
PD.5090	PL.35166	A	75QA	7.35Y	122.5	0.00	2.46	0.00	0	0	0	100	0.00	0.0	4.534	0.000	0	0	0	0
PL.35167	PD.5090	A	6 A (CWC)	7.35Y	122.5	0.00	2.46	0.00	0	0	0	100	0.00	0.0	4.601	0.067	0	0	0	0
PL.52720	PL.52719	ABC	336 MCM AC	7.36Y	122.7	0.00	2.33	1.70	0	37	8	98	0.00	0.0	4.444	0.037	10	2	2	6
PL.35087	PL.52720	C	6 A (CWC)	7.36Y	122.7	0.00	2.34	3.76	3	27	6	98	0.00	0.0	4.483	0.038	27	6	4	4
PL.34194	PL.52720	ABC	336 MCM AC	7.36Y	122.7	0.00	2.33	0.00	0	0	0	100	0.00	0.0	4.478	0.034	0	0	0	0
PD.5871-A	PL.34194	ABC	Open	7.36Y	122.7	0.00	2.33	0.00	0	0	0	100	0.00	0.0	4.478	0.034	0	0	0	0
PL.52722	PL.52719	B	6 A (CWC)	7.36Y	122.7	0.00	2.33	6.26	4	45	10	98	0.00	0.0	4.408	0.001	0	0	0	5
PD.5125	PL.52722	B	75QA	7.36Y	122.7	0.00	2.33	6.26	8	45	10	98	0.00	0.0	4.408	0.001	0	0	0	5
PL.34770	PD.5125	B	6 A (CWC)	7.36Y	122.7	0.02	2.35	6.26	4	45	10	98	0.01	0.0	4.463	0.055	0	0	0	5
PL.34268	PL.34770	B	6 A (CWC)	7.36Y	122.6	0.01	2.36	6.26	4	45	10	98	0.00	0.0	4.508	0.045	13	3	1	5
PL.34454	PL.34268	B	#4 ACSR	7.36Y	122.6	0.00	2.36	4.04	3	29	7	97	0.00	0.0	4.528	0.020	29	7	3	3
PL.34269	PL.34268	B	6 A (CWC)	7.36Y	122.6	0.00	2.36	0.36	0	3	1	95	0.00	0.0	4.568	0.060	3	1	1	1
PL.34160	PL.35984	A	#2 ACSR	7.37Y	122.9	0.00	2.09	23.62	13	170	39	97	0.00	0.0	4.001	0.001	0	0	0	22
PD.5692	PL.34160	A	75QA	7.37Y	122.9	0.00	2.09	23.62	31	170	39	97	0.00	0.0	4.001	0.001	0	0	0	22
PL.35801	PD.5692	A	#2 ACSR	7.37Y	122.9	0.03	2.12	23.62	13	170	39	97	0.04	0.0	4.050	0.049	23	5	4	22
PL.35802	PL.35801	A	#2 ACSR	7.37Y	122.9	0.03	2.15	20.35	12	146	34	97	0.03	0.0	4.091	0.041	10	2	1	18
PL.35025	PL.35802	A	#2 ACSR	7.37Y	122.9	0.00	2.15	1.64	1	12	3	97	0.00	0.0	4.145	0.053	12	3	2	2
PL.35904	PL.35802	A	#2 ACSR	7.37Y	122.8	0.03	2.17	17.34	10	125	29	97	0.02	0.0	4.142	0.051	17	4	2	15
PL.36921	PL.35904	A	#2 ACSR	7.37Y	122.8	0.02	2.19	15.00	9	108	25	97	0.02	0.0	4.202	0.060	43	10	4	13
PL.36922	PL.36921	A	#2 ACSR	7.37Y	122.8	0.01	2.21	9.04	5	65	15	97	0.01	0.0	4.267	0.065	27	6	4	9
PL.36923	PL.36922	A	#2 ACSR	7.37Y	122.8	0.00	2.21	5.24	3	38	9	97	0.00	0.0	4.286	0.020	29	7	3	5
PL.36924	PL.36923	A	#2 ACSR	7.37Y	122.8	0.00	2.21	1.20	1	9	2	98	0.00	0.0	4.343	0.057	9	2	2	2
PL.36925	PL.36924	A	#2 ACSR	7.37Y	122.8	0.00	2.21	0.00	0	0	0	100	0.00	0.0	4.387	0.044	0	0	0	0
PL.35123	PL.37165	ABC	336 MCM AC	7.39Y	123.1	0.00	1.87	0.00	0	0	0	100	0.00	0.0	3.738	0.038	0	0	0	0
PD.5884-B	PL.35123	ABC	Open	7.39Y	123.1	0.00	1.87	0.00	0	0	0	100	0.00	0.0	3.738	0.038	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 1

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.36392	PL.37170	ABC	#4 ACSR	7.39Y	123.2	0.02	1.83	9.49	7	190	91	90	0.03	0.0	3.684	0.066	69	33	1	3
PL.36393	PL.36392	ABC	#4 ACSR	7.39Y	123.2	0.00	1.83	6.03	5	120	58	90	0.00	0.0	3.687	0.003	120	58	2	2
PL.36394	PL.36393	ABC	#4 ACSR	7.39Y	123.2	0.00	1.83	0.00	0	0	0	100	0.00	0.0	3.691	0.004	0	0	0	0
PL.61816	PL.61815	ABC	6 A (CWC)	7.40Y	123.3	0.00	1.71	2.60	2	56	13	97	0.00	0.0	3.565	0.058	56	13	2	2
PL.34805	PL.61821	ABC	#1/0 ACSR	7.44Y	124.0	0.02	1.04	5.06	2	110	25	98	0.01	0.0	2.945	0.184	12	3	4	22
PL.33218	PL.34805	C	6 A (CWC)	7.44Y	124.0	0.00	1.04	0.10	0	1	0	100	0.00	0.0	2.985	0.041	1	0	2	2
PL.60762	PL.34805	ABC	#1/0 ACSR	7.44Y	124.0	0.01	1.04	4.46	2	97	22	98	0.00	0.0	3.034	0.090	0	0	0	16
PL.60763	PL.60762	ABC	#4 ACSR	7.44Y	124.0	0.00	1.04	0.00	0	0	0	100	0.00	0.0	3.046	0.011	0	0	0	0
PL.61111	PL.60762	C	#2 ACSR	7.44Y	124.0	0.00	1.04	13.39	8	97	22	98	0.00	0.0	3.035	0.000	0	0	0	16
PD.5124	PL.61111	C	50QA	7.44Y	124.0	0.00	1.04	13.39	27	97	22	98	0.00	0.0	3.035	0.000	0	0	0	16
PL.33728	PD.5124	C	#2 ACSR	7.44Y	123.9	0.02	1.06	13.39	8	97	22	98	0.01	0.0	3.074	0.039	0	0	0	16
PL.33376	PL.33728	C	#2 ACSR	7.44Y	123.9	0.00	1.06	0.00	0	0	0	100	0.00	0.0	3.103	0.029	0	0	0	0
PL.33729	PL.33728	C	#2 ACSR	7.44Y	123.9	0.01	1.07	13.39	8	97	22	98	0.01	0.0	3.110	0.036	30	7	3	16
PL.36901	PL.33729	C	#2 ACSR	7.44Y	123.9	0.01	1.08	9.27	5	67	16	97	0.01	0.0	3.148	0.038	0	0	0	13
PL.36902	PL.36901	C	#2 ACSR	7.43Y	123.9	0.01	1.09	7.91	5	57	13	97	0.00	0.0	3.191	0.042	12	3	2	12
PL.36903	PL.36902	C	#2 ACSR	7.43Y	123.9	0.01	1.11	6.19	4	45	10	98	0.00	0.0	3.263	0.072	0	0	0	10
PL.36904	PL.36903	C	#2 ACSR	7.43Y	123.9	0.02	1.12	6.19	4	45	10	98	0.00	0.0	3.354	0.091	7	2	3	10
PL.36900	PL.36904	C	#2 ACSR	7.43Y	123.9	0.00	1.12	5.17	3	37	9	97	0.00	0.0	3.389	0.035	27	6	5	7
PL.36899	PL.36900	C	#2 ACSR	7.43Y	123.9	0.00	1.13	1.46	1	11	2	98	0.00	0.0	3.428	0.039	11	2	2	2
PL.34731	PL.36901	C	#2 ACSR	7.44Y	123.9	0.00	1.08	1.36	1	10	2	98	0.00	0.0	3.177	0.028	10	2	1	1
PL.61822	PL.61818	ABC	336 MCM AC	7.47Y	124.4	0.08	0.58	34.47	7	752	176	97	0.32	0.0	2.545	0.316	0	0	0	91
PL.61824	PL.61822	A	#4 ACSR	7.47Y	124.4	0.00	0.58	0.98	1	7	2	96	0.00	0.0	2.548	0.003	0	0	0	1
PD.5119	PL.61824	A	75QA	7.47Y	124.4	0.00	0.58	0.98	1	7	2	96	0.00	0.0	2.548	0.003	0	0	0	1
PL.36936	PD.5119	A	#4 ACSR	7.47Y	124.4	0.00	0.58	0.98	1	7	2	96	0.00	0.0	2.615	0.067	7	2	1	1
PL.61823	PL.61822	ABC	336 MCM AC	7.46Y	124.4	0.03	0.61	34.14	7	745	173	97	0.11	0.0	2.656	0.110	0	0	0	90
PL.36937	PL.61823	C	#4 ACSR	7.46Y	124.4	0.00	0.61	7.91	6	58	13	98	0.00	0.0	2.656	0.001	0	0	0	5
PD.5797	PL.36937	C	25T	7.46Y	124.4	0.00	0.61	7.91	0	58	13	98	0.00	0.0	2.656	0.001	0	0	0	5
PL.36938	PD.5797	C	#4 ACSR	7.46Y	124.4	0.00	0.61	7.91	6	58	13	98	0.00	0.0	2.677	0.021	58	13	4	5
PL.61115	PL.36938	C	#4 ACSR	7.46Y	124.4	0.00	0.61	0.00	0	0	0	100	0.00	0.0	2.726	0.049	0	0	0	0
PL.61116	PL.61115	C	#4 ACSR	7.46Y	124.4	0.00	0.61	0.00	0	0	0	100	0.00	0.0	2.788	0.063	0	0	0	0
PL.34634	PL.36938	C	#4 ACSR	7.46Y	124.4	0.00	0.61	0.00	0	0	0	100	0.00	0.0	2.796	0.119	0	0	0	1

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Balanced Voltage Drop Report
Source: West London 1

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.34343	PL.34634	C	#4 ACSR	7.46Y	124.4	0.00	0.61	0.00	0	0	0	100	0.00	0.0	2.824	0.028	0	0	1	1
PL.34635	PL.34634	C	#4 ACSR	7.46Y	124.4	0.00	0.61	0.00	0	0	0	100	0.00	0.0	2.896	0.100	0	0	0	0
PL.35492	PL.61823	ABC	336 MCM AC	7.46Y	124.3	0.05	0.65	31.50	6	687	160	97	0.17	0.0	2.869	0.214	21	5	3	85
PL.35493	PL.35492	ABC	336 MCM AC	7.46Y	124.3	0.01	0.66	30.53	6	666	155	97	0.03	0.0	2.903	0.034	0	0	0	82
PL.35944	PL.35493	ABC	#3/0 ACSR	7.46Y	124.3	0.02	0.68	25.75	9	561	130	97	0.07	0.0	2.970	0.067	27	6	2	69
PL.33217	PL.35944	ABC	#3/0 ACSR	7.46Y	124.3	0.02	0.70	24.50	8	534	124	97	0.06	0.0	3.031	0.061	7	2	1	67
PL.60976	PL.33217	ABC	#3/0 ACSR	7.46Y	124.3	0.01	0.71	24.17	8	527	122	97	0.04	0.0	3.077	0.046	27	6	3	66
PL.60975	PL.60976	ABC	#3/0 ACSR	7.46Y	124.3	0.01	0.72	22.92	8	499	116	97	0.04	0.0	3.121	0.044	0	0	0	63
PL.60977	PL.60975	C	#1/0 ACSR	7.46Y	124.3	0.00	0.72	2.32	1	17	4	97	0.00	0.0	3.124	0.004	0	0	0	2
PD.9078	PL.60977	C	15T	7.46Y	124.3	0.00	0.72	2.32	0	17	4	97	0.00	0.0	3.124	0.004	0	0	0	2
PL.60978	PD.9078	C	#1/0 ACSR	7.46Y	124.3	0.00	0.72	2.32	1	17	4	97	0.00	0.0	3.145	0.021	17	4	2	2
PL.57482	PL.60975	ABC	#3/0 ACSR	7.46Y	124.3	0.02	0.74	22.14	7	483	112	97	0.05	0.0	3.189	0.068	25	6	6	61
PL.34947	PL.57482	ABC	#3/0 ACSR	7.45Y	124.2	0.01	0.75	20.43	7	445	103	97	0.03	0.0	3.237	0.048	0	0	0	54
PL.36440	PL.34947	ABC	#3/0 ACSR	7.45Y	124.2	0.00	0.75	20.43	7	445	103	97	0.00	0.0	3.238	0.001	0	0	0	54
PD.5788	PL.36440	ABC	70L	7.45Y	124.2	0.00	0.75	20.43	29	445	103	97	0.00	0.0	3.238	0.001	0	0	0	54
PL.36441	PD.5788	ABC	#3/0 ACSR	7.45Y	124.2	0.01	0.77	20.43	7	445	103	97	0.04	0.0	3.297	0.059	20	5	2	54
PL.34959	PL.36441	A	#4 ACSR	7.45Y	124.2	0.00	0.77	1.77	1	13	3	97	0.00	0.0	3.359	0.062	13	3	1	1
PL.63322	PL.34959	A	#1/0 ACSR	7.45Y	124.2	0.00	0.77	0.00	0	0	0	100	0.00	0.0	3.477	0.118	0	0	0	0
PL.36439	PL.63322	ABC	#3/0 ACSR	7.45Y	124.2	0.01	0.78	18.91	6	412	95	97	0.02	0.0	3.330	0.033	17	4	3	51
PL.34005	PL.36439	ABC	#3/0 ACSR	7.45Y	124.2	0.01	0.78	18.12	6	395	91	97	0.02	0.0	3.369	0.039	20	5	2	48
PL.34540	PL.34005	A	#4 ACSR	7.45Y	124.2	0.00	0.79	2.96	2	22	5	98	0.00	0.0	3.417	0.048	22	5	3	3
PL.36787	PL.34005	ABC	#3/0 ACSR	7.45Y	124.2	0.02	0.81	16.22	5	353	82	97	0.05	0.0	3.492	0.124	0	0	0	43
PL.36788	PL.36787	ABC	#3/0 ACSR	7.45Y	124.2	0.01	0.81	16.22	5	353	82	97	0.01	0.0	3.528	0.035	22	5	2	43
PL.35248	PL.36788	ABC	#3/0 ACSR	7.45Y	124.2	0.00	0.82	10.98	4	239	55	97	0.00	0.0	3.548	0.020	0	0	0	30
PL.35249	PL.35248	ABC	#3/0 ACSR	7.45Y	124.2	0.01	0.83	10.12	3	220	51	97	0.02	0.0	3.643	0.095	12	3	1	28
PL.37155	PL.35249	ABC	#3/0 ACSR	7.45Y	124.1	0.04	0.87	9.55	3	208	48	97	0.05	0.0	4.004	0.362	15	4	1	27
PL.61004	PL.37155	A	#1/0 ACSR	7.45Y	124.1	0.00	0.87	2.76	1	20	5	97	0.00	0.0	4.008	0.003	0	0	0	2
PD.9084	PL.61004	A	25T	7.45Y	124.1	0.00	0.87	2.76	0	20	5	97	0.00	0.0	4.008	0.003	0	0	0	2
PL.61005	PD.9084	A	#1/0 ACSR	7.45Y	124.1	0.00	0.87	2.76	1	20	5	97	0.00	0.0	4.038	0.030	0	0	0	2
PL.61008	PL.61005	A	1/0 AL URD	7.45Y	124.1	0.00	0.87	2.76	2	20	5	97	0.00	0.0	4.062	0.025	20	5	2	2
PL.37156	PL.61008	ABC	#3/0 ACSR	7.45Y	124.1	0.01	0.88	7.93	3	173	40	97	0.01	0.0	4.100	0.095	0	0	0	24

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 1

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.34519	PL.37156	B	#1/0 ACSR	7.45Y	124.1	0.00	0.88	2.39	1	17	4	97	0.00	0.0	4.114	0.014	17	4	1	1
PL.35031	PL.37156	A	#2 ACSR	7.45Y	124.1	0.00	0.88	4.98	3	36	8	98	0.00	0.0	4.125	0.025	0	0	0	5
PL.34810	PL.35031	A	6 A (CWC)	7.45Y	124.1	0.00	0.88	1.08	1	8	2	97	0.00	0.0	4.158	0.033	8	2	1	1
PL.35032	PL.35031	A	#2 ACSR	7.45Y	124.1	0.01	0.89	3.90	2	28	7	97	0.00	0.0	4.255	0.130	10	2	1	4
PL.36082	PL.35032	A	#2 ACSR	7.45Y	124.1	0.00	0.90	2.49	1	18	4	98	0.00	0.0	4.312	0.057	9	2	1	3
PL.36081	PL.36082	A	#2 ACSR	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	4.400	0.088	0	0	0	0
PL.34753	PL.36082	A	#4 ACSR	7.45Y	124.1	0.00	0.90	1.23	1	9	2	98	0.00	0.0	4.384	0.071	9	2	2	2
PL.59331	PL.37156	ABC	#3/0 ACSR	7.45Y	124.1	0.00	0.88	5.47	2	119	28	97	0.00	0.0	4.155	0.056	12	3	2	18
PL.60997	PL.59331	ABC	#3/0 ACSR	7.45Y	124.1	0.02	0.90	4.92	2	107	25	97	0.01	0.0	4.442	0.286	12	3	1	16
PL.62259	PL.60997	ABC	#3/0 ACSR	7.45Y	124.1	0.01	0.90	4.35	1	95	22	97	0.00	0.0	4.541	0.099	0	0	0	15
PL.62258	PL.62259	A	#2 ACSR	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	4.542	0.001	0	0	0	1
PD.5270	PL.62258	A	40QA	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	4.542	0.001	0	0	0	1
PL.36089	PD.5270	A	#2 ACSR	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	4.608	0.067	0	0	1	1
PL.62257	PL.62259	ABC	#3/0 ACSR	7.45Y	124.1	0.01	0.91	4.35	1	95	22	97	0.01	0.0	4.743	0.202	0	0	0	14
PL.61828	PL.62257	ABC	#3/0 ACSR	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	4.746	0.003	0	0	0	0
PD.9304-B	PL.61828	ABC	Open	7.45Y	124.1	0.00	0.91	0.00	0	0	0	100	0.00	0.0	4.746	0.003	0	0	0	0
PL.61687	PL.62257	C	6 A (CWC)	7.45Y	124.1	0.00	0.92	13.05	9	95	22	97	0.00	0.0	4.745	0.002	0	0	0	14
PD.8895	PL.61687	C	75QA	7.45Y	124.1	0.00	0.92	13.05	17	95	22	97	0.00	0.0	4.745	0.002	0	0	0	14
PL.59701	PD.8895	C	6 A (CWC)	7.44Y	124.1	0.03	0.95	13.05	9	95	22	97	0.02	0.0	4.801	0.056	0	0	0	14
PL.35583	PL.59701	C	#2 ACSR	7.44Y	124.1	0.00	0.95	2.21	1	16	4	97	0.00	0.0	4.822	0.021	16	4	1	1
PL.36087	PL.59701	C	6 A (CWC)	7.44Y	124.0	0.03	0.97	10.84	8	79	18	98	0.02	0.0	4.856	0.055	1	0	2	13
PL.33892	PL.36087	C	6 A (CWC)	7.44Y	124.0	0.03	1.00	10.65	8	77	18	97	0.01	0.0	4.914	0.058	13	3	1	11
PL.33893	PL.33892	C	6 A (CWC)	7.44Y	124.0	0.01	1.01	8.80	6	64	15	97	0.01	0.0	4.950	0.036	14	3	1	10
PL.35326	PL.33893	C	#1/0 ACSR	7.44Y	124.0	0.00	1.01	1.50	1	11	3	96	0.00	0.0	5.056	0.106	11	3	1	1
PL.36088	PL.33893	C	6 A (CWC)	7.44Y	123.9	0.05	1.06	5.39	4	39	9	97	0.01	0.0	5.146	0.196	0	0	0	8
PL.36332	PL.36088	C	6 A (CWC)	7.44Y	123.9	0.02	1.08	3.16	2	23	5	98	0.00	0.0	5.339	0.193	12	3	3	7
PL.36333	PL.36332	C	6 A (CWC)	7.44Y	123.9	0.00	1.08	1.52	1	11	3	96	0.00	0.0	5.363	0.023	0	0	0	4
PL.35790	PL.36333	C	6 A (CWC)	7.43Y	123.9	0.00	1.08	1.52	1	11	3	96	0.00	0.0	5.388	0.025	11	3	4	4
PL.33679	PL.36088	C	#4 ACSR	7.44Y	123.9	0.00	1.07	2.23	2	16	4	97	0.00	0.0	5.235	0.088	16	4	1	1
PL.62256	PL.62259	ABC	#3/0 ACSR	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	4.587	0.047	0	0	0	0
PD.9302-B	PL.62256	ABC	Open	7.45Y	124.1	0.00	0.90	0.00	0	0	0	100	0.00	0.0	4.587	0.047	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 1

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.36781	PL.35248	C	#4 ACSR	7.45Y	124.2	0.00	0.82	0.95	1	7	2	96	0.00	0.0	3.549	0.001	0	0	0	1
PD.5777	PL.36781	C	40QA	7.45Y	124.2	0.00	0.82	0.95	2	7	2	96	0.00	0.0	3.549	0.001	0	0	0	1
PL.36782	PD.5777	C	#4 ACSR	7.45Y	124.2	0.00	0.82	0.95	1	7	2	96	0.00	0.0	3.576	0.027	7	2	1	1
PL.36783	PL.35248	C	#2 ACSR	7.45Y	124.2	0.00	0.82	1.61	1	12	3	97	0.00	0.0	3.549	0.001	0	0	0	1
PD.5122	PL.36783	C	40QA	7.45Y	124.2	0.00	0.82	1.61	4	12	3	97	0.00	0.0	3.549	0.001	0	0	0	1
PL.36784	PD.5122	C	#2 ACSR	7.45Y	124.2	0.00	0.82	1.61	1	12	3	97	0.00	0.0	3.587	0.038	12	3	1	1
PL.36785	PL.36788	B	#2 ACSR	7.45Y	124.2	0.00	0.81	1.50	1	11	3	96	0.00	0.0	3.529	0.001	0	0	0	2
PD.5798	PL.36785	B	75QA	7.45Y	124.2	0.00	0.81	1.50	2	11	3	96	0.00	0.0	3.529	0.001	0	0	0	2
PL.36786	PD.5798	B	#2 ACSR	7.45Y	124.2	0.00	0.82	1.50	1	11	3	96	0.00	0.0	3.580	0.051	11	3	2	2
PL.36939	PL.36788	A	6 A (CWC)	7.45Y	124.2	0.02	0.84	11.14	8	81	19	97	0.01	0.0	3.575	0.047	0	0	0	9
PL.36940	PL.36939	A	6 A (CWC)	7.45Y	124.2	0.01	0.85	6.28	4	46	11	97	0.00	0.0	3.626	0.051	25	6	3	5
PL.34809	PL.36940	A	#2 ACSR	7.45Y	124.1	0.00	0.85	1.50	1	11	3	96	0.00	0.0	3.689	0.063	11	3	1	1
PL.36941	PL.36940	A	6 A (CWC)	7.45Y	124.1	0.00	0.85	1.32	1	10	2	98	0.00	0.0	3.725	0.099	10	2	1	1
PL.61117	PL.36939	A	6 A (CWC)	7.45Y	124.2	0.01	0.85	4.85	3	35	8	97	0.00	0.0	3.636	0.061	17	4	2	4
PL.61118	PL.61117	A	6 A (CWC)	7.45Y	124.1	0.00	0.85	2.53	2	18	4	98	0.00	0.0	3.671	0.035	9	2	1	2
PL.61119	PL.61118	A	6 A (CWC)	7.45Y	124.1	0.00	0.85	1.35	1	10	2	98	0.00	0.0	3.711	0.041	10	2	1	1
PL.34070	PL.36441	A	#2 ACSR	7.45Y	124.2	0.00	0.77	0.00	0	0	0	100	0.00	0.0	3.337	0.041	0	0	0	0
PL.63255	PL.57482	A	#1/0 ACSR	7.46Y	124.3	0.00	0.74	0.00	0	0	0	100	0.00	0.0	3.224	0.036	0	0	0	0
PL.36179	PL.57482	C	6 A (CWC)	7.46Y	124.3	0.00	0.74	1.65	1	12	3	97	0.00	0.0	3.189	0.001	0	0	0	1
PD.5121	PL.36179	C	75QA	7.46Y	124.3	0.00	0.74	1.65	2	12	3	97	0.00	0.0	3.189	0.001	0	0	0	1
PL.36180	PD.5121	C	6 A (CWC)	7.46Y	124.3	0.00	0.74	1.65	1	12	3	97	0.00	0.0	3.247	0.057	12	3	1	1
PL.34952	PL.35944	B	#2 ACSR	7.46Y	124.3	0.00	0.68	0.00	0	0	0	100	0.00	0.0	2.990	0.020	0	0	0	0
PL.33221	PL.35493	C	#4 ACSR	7.46Y	124.3	0.00	0.66	14.36	11	104	24	97	0.00	0.0	2.904	0.001	0	0	0	13
PD.5120	PL.33221	C	30T	7.46Y	124.3	0.00	0.66	14.36	0	104	24	97	0.00	0.0	2.904	0.001	0	0	0	13
PL.33222	PD.5120	C	#4 ACSR	7.46Y	124.3	0.02	0.68	14.36	11	104	24	97	0.01	0.0	2.937	0.033	17	4	5	13
PL.36228	PL.33222	C	#4 ACSR	7.46Y	124.3	0.02	0.70	12.00	9	87	20	97	0.01	0.0	2.967	0.030	0	0	0	8
PL.36229	PL.36228	C	#4 ACSR	7.46Y	124.3	0.01	0.71	4.86	4	35	8	97	0.00	0.0	3.029	0.062	10	2	1	3
PL.36233	PL.36229	C	#4 ACSR	7.46Y	124.3	0.01	0.71	3.48	3	25	6	97	0.00	0.0	3.074	0.045	11	3	1	2
PL.36234	PL.36233	C	#4 ACSR	7.46Y	124.3	0.00	0.71	1.96	2	14	3	98	0.00	0.0	3.129	0.055	14	3	1	1
PL.36226	PL.36228	C	#2 ACSR	7.46Y	124.3	0.00	0.70	7.14	4	52	12	97	0.00	0.0	2.985	0.018	0	0	0	5
PL.36227	PL.36226	C	#2 ACSR	7.46Y	124.3	0.00	0.70	7.14	4	52	12	97	0.00	0.0	3.000	0.015	9	2	1	5

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Balanced Voltage Drop Report
Source: West London 1

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.36235	PL.36227	C	#2 ACSR	7.46Y	124.3	0.01	0.71	5.89	3	43	10	97	0.00	0.0	3.053	0.054	30	7	3	4
PL.36236	PL.36235	C	#2 ACSR	7.46Y	124.3	0.00	0.71	1.78	1	13	3	97	0.00	0.0	3.108	0.054	13	3	1	1
PL.64640	PL.64079	B	#2 ACSR	7.39Y	123.2	0.00	1.80	4.22	2	28	14	89	0.00	0.0	1.390	0.000	0	0	0	1
PL.64641	PL.64640	B	#2 ACSR	7.39Y	123.2	0.00	1.80	4.22	2	28	14	89	0.00	0.0	1.415	0.025	28	14	1	1
PL.34850	PL.34240	ABC	336 MCM AC	7.44Y	123.9	0.00	1.08	0.00	0	0	0	100	0.00	0.0	0.911	0.044	0	0	0	0
PD.5876-A	PL.34850	ABC	Open	7.44Y	123.9	0.00	1.08	0.00	0	0	0	100	0.00	0.0	0.911	0.044	0	0	0	0
PL.58535	PL.35465	A	#4 ACSR	7.44Y	124.0	0.00	0.95	5.22	4	38	9	97	0.00	0.0	0.776	0.001	0	0	0	5
PD.8710	PL.58535	A	25T	7.44Y	124.0	0.00	0.95	5.22	0	38	9	97	0.00	0.0	0.776	0.001	0	0	0	5
PL.58536	PD.8710	A	#4 ACSR	7.44Y	124.0	0.00	0.96	5.22	4	38	9	97	0.00	0.0	0.788	0.012	14	3	2	5
PL.35467	PL.58536	A	#4 ACSR	7.44Y	124.0	0.00	0.96	3.30	3	24	6	97	0.00	0.0	0.822	0.034	15	3	2	3
PL.35468	PL.35467	A	#4 ACSR	7.44Y	124.0	0.00	0.96	1.29	1	9	2	98	0.00	0.0	0.902	0.080	9	2	1	1
PL.35470	PL.35405	C	#4 ACSR	7.45Y	124.1	0.00	0.87	2.00	2	15	3	98	0.00	0.0	0.717	0.002	0	0	0	2
PD.5838	PL.35470	C	75QA	7.45Y	124.1	0.00	0.87	2.00	3	15	3	98	0.00	0.0	0.717	0.002	0	0	0	2
PL.35471	PD.5838	C	#4 ACSR	7.45Y	124.1	0.00	0.87	2.00	2	15	3	98	0.00	0.0	0.763	0.046	15	3	2	2
PL.34749	PL.35405	C	#4 ACSR	7.45Y	124.1	0.00	0.87	0.00	0	0	0	100	0.00	0.0	0.758	0.043	0	0	0	0
PL.34768	PL.33821	C	#2 ACSR	7.49Y	124.8	0.00	0.22	0.00	0	0	0	100	0.00	0.0	0.282	0.001	0	0	0	0
PD.5053	PL.34768	C	75QA	7.49Y	124.8	0.00	0.22	0.00	0	0	0	100	0.00	0.0	0.282	0.001	0	0	0	0
PL.55982	PD.5053	C	#2 ACSR	7.49Y	124.8	0.00	0.22	0.00	0	0	0	100	0.00	0.0	0.300	0.017	0	0	0	0
PL.34833	PL.34831	ABC	#2 ACSR	7.50Y	124.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	0.114	0.001	0	0	0	0
PD.5106	PL.34833	ABC	40QA	7.50Y	124.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	0.114	0.001	0	0	0	0
PL.34834	PD.5106	ABC	#2 ACSR	7.50Y	124.9	0.00	0.08	0.00	0	0	0	100	0.00	0.0	0.183	0.069	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

	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total		
KW	10625	0	0	0	0	0	181	0.00	10806	Lowest Voltage = 121.38 on Element PL.61114	
KVAR	3176	0	0	0	0	0	424		3600	Max Accm VoltD = 3.62 on Element PL.61114	
										Max Elem VoltD = 1.28 on Element PL.64793	

