Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
Greenhall		ABC	SRC-Green	7.50Y	125.0	0.00	0.00	233.13	0	4984	1636	95	0.00	0.0	0.000	0.000	0	0	0	1144
PL.30101	Greenhall	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	64.29	12	1382	429	96	0.01	0.0	0.011	0.011	0	0	0	288
PL.32686	PL.30101	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	64.29	12	1382	429	96	0.00	0.0	0.014	0.004	0	0	0	288
---------- Feeder No. 4 (Tyner F4) Beginning with Device PD.5287 ----------																				
PD.5287	PL.32686	ABC	480VWE	7.50Y	125.0	0.00	0.00	64.29	0	1382	429	96	0.00	0.0	0.014	0.004	0	0	0	288
PL.32687	PD.5287	ABC	397 SPACER	7.50Y	125.0	0.03	0.03	64.29	12	1382	429	96	0.07	0.0	0.145	0.131	0	0	0	288
PL.29694	PL.32687	ABC	#1/0 ACSR	7.49Y	124.9	0.06	0.09	64.29	28	1382	428	96	0.58	0.0	0.198	0.053	0	0	0	288
PL.29842	PL.29694	ABC	#1/0 ACSR	7.48Y	124.7	0.16	0.25	64.29	28	1381	427	96	1.51	0.1	0.335	0.137	0	0	0	288
PL.29841	PL.29842	ABC	#1/0 ACSR	7.48Y	124.6	0.15	0.41	64.29	28	1379	426	96	1.45	0.1	0.467	0.131	0	0	0	288
PL.29840	PL.29841	ABC	#1/0 ACSR	7.47Y	124.5	0.13	0.54	64.29	28	1378	424	96	1.23	0.1	0.578	0.111	0	0	0	288
PL.29839	PL.29840	ABC	#1/0 ACSR	7.46Y	124.3	0.14	0.68	64.29	28	1377	423	96	1.28	0.1	0.695	0.117	0	0	0	288
PL.29838	PL.29839	ABC	#1/0 ACSR	7.45Y	124.2	0.12	0.80	64.29	28	1376	422	96	1.12	0.1	0.797	0.102	0	0	0	288
PL.29695	PL.29838	ABC	#1/0 ACSR	7.44Y	124.1	0.15	0.95	64.29	28	1374	421	96	1.40	0.1	0.923	0.127	0	0	0	288
PL.29760	PL.29695	A	6 A (CWC)	7.44Y	124.1	0.00	0.95	1.82	1	13	4	96	0.00	0.0	0.928	0.005	0	0	0	2
PD.4096	PL.29760	A	65T	7.44Y	124.1	0.00	0.95	1.82	0	13	4	96	0.00	0.0	0.928	0.005	0	0	0	2
PL.29761	PD.4096	A	6 A (CWC)	7.44Y	124.1	0.00	0.95	1.82	1	13	4	96	0.00	0.0	0.938	0.010	10	3	1	2
PL.29893	PL.29761	A	6 A (CWC)	7.44Y	124.1	0.00	0.95	0.47	0	3	1	95	0.00	0.0	0.970	0.033	3	1	1	1
PL.29871	PL.29695	ABC	#1/0 ACSR	7.43Y	123.9	0.18	1.12	63.69	28	1360	416	96	1.64	0.1	1.075	0.152	0	0	0	286
PL.29872	PL.29871	ABC	#1/0 ACSR	7.43Y	123.8	0.06	1.18	63.33	28	1351	412	96	0.53	0.0	1.125	0.050	0	0	0	285
PL.29764	PL.29872	C	#1/0 ACSR	7.43Y	123.8	0.00	1.18	4.50	2	32	9	96	0.00	0.0	1.130	0.005	0	0	0	8
PD.4098	PL.29764	C	65T	7.43Y	123.8	0.00	1.18	4.50	0	32	9	96	0.00	0.0	1.130	0.005	0	0	0	8
PL.29765	PD.4098	C	#1/0 ACSR	7.43Y	123.8	0.01	1.20	4.50	2	32	9	96	0.00	0.0	1.262	0.132	0	0	0	8
PL.29843	PL.29765	C	#1/0 ACSR	7.43Y	123.8	0.01	1.20	4.50	2	32	9	96	0.00	0.0	1.338	0.076	6	2	1	8
PL.29696	PL.29843	C	6 A (CWC)	7.43Y	123.8	0.02	1.22	3.70	3	26	8	96	0.00	0.0	1.462	0.124	0	0	0	7
PL.29895	PL.29696	C	6 A (CWC)	7.43Y	123.8	0.01	1.24	3.70	3	26	8	96	0.00	0.0	1.558	0.096	7	2	2	7
PL.29896	PL.29895	C	6 A (CWC)	7.43Y	123.8	0.01	1.25	2.76	2	20	6	96	0.00	0.0	1.654	0.096	3	1	2	5
PL.29894	PL.29896	C	6 A (CWC)	7.42Y	123.7	0.00	1.25	2.35	2	17	5	96	0.00	0.0	1.702	0.048	8	2	1	3
PL.29892	PL.29894	C	6 A (CWC)	7.42Y	123.7	0.00	1.25	1.16	1	8	2	97	0.00	0.0	1.743	0.041	7	2	1	2
PL.29891	PL.29892	C	6 A (CWC)	7.42Y	123.7	0.00	1.25	0.11	0	1	0	100	0.00	0.0	1.811	0.068	1	0	1	1
PL.29873	PL.29872	ABC	#1/0 ACSR	7.42Y	123.6	0.17	1.35	61.84	27	1318	402	96	1.56	0.1	1.279	0.154	0	0	0	277

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: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.29897	PL.29873	ABC	#1/0 ACSR	7.41Y	123.4	0.20	1.55	61.84	27	1317	401	96	1.79	0.1	1.454	0.176	0	0	1	277
PL.29898	PL.29897	ABC	#1/0 ACSR	7.40Y	123.4	0.05	1.60	61.83	27	1315	399	96	0.44	0.0	1.498	0.043	0	0	0	276
PL.29766	PL.29898	C	#1/0 ACSR	7.40Y	123.4	0.00	1.60	0.65	0	5	1	98	0.00	0.0	1.502	0.005	0	0	0	4
PD.4099	PL.29766	C	65T	7.40Y	123.4	0.00	1.60	0.65	0	5	1	98	0.00	0.0	1.502	0.005	0	0	0	4
PL.29767	PD.4099	C	#1/0 ACSR	7.40Y	123.4	0.00	1.60	0.65	0	5	1	98	0.00	0.0	1.537	0.035	5	1	4	4
PL.29789	PL.29898	ABC	#1/0 ACSR	7.40Y	123.4	0.05	1.65	61.61	27	1310	397	96	0.42	0.0	1.539	0.041	5	2	2	272
PL.29790	PL.29789	ABC	#1/0 ACSR	7.39Y	123.2	0.15	1.80	61.16	27	1299	394	96	1.38	0.1	1.677	0.138	0	0	0	268
PL.29844	PL.29790	ABC	#1/0 ACSR	7.38Y	123.0	0.16	1.97	61.16	27	1298	393	96	1.45	0.1	1.823	0.146	0	0	0	268
PL.29845	PL.29844	ABC	#1/0 ACSR	7.37Y	122.8	0.19	2.15	61.16	27	1297	391	96	1.65	0.1	1.989	0.166	0	0	0	268
PL.29792	PL.29845	ABC	#1/0 ACSR	7.36Y	122.7	0.12	2.27	60.35	26	1278	385	96	1.08	0.1	2.100	0.111	0	0	0	264
PL.29770	PL.29792	C	#1/0 ACSR	7.36Y	122.7	0.00	2.27	0.05	0	0	0	100	0.00	0.0	2.105	0.005	0	0	0	2
PD.4101	PL.29770	C	65T	7.36Y	122.7	0.00	2.27	0.05	0	0	0	100	0.00	0.0	2.105	0.005	0	0	0	2
PL.29771	PD.4101	C	#1/0 ACSR	7.36Y	122.7	0.00	2.27	0.05	0	0	0	100	0.00	0.0	2.126	0.021	0	0	0	2
PL.29902	PL.29771	C	#4 ACSR	7.36Y	122.7	0.00	2.27	0.05	0	0	0	100	0.00	0.0	2.189	0.063	0	0	1	2
PL.29903	PL.29902	C	#4 ACSR	7.36Y	122.7	0.00	2.27	0.00	0	0	0	100	0.00	0.0	2.290	0.101	0	0	1	1
PL.29794	PL.29792	ABC	#1/0 ACSR	7.36Y	122.7	0.04	2.31	60.33	26	1276	384	96	0.36	0.0	2.137	0.037	0	0	0	262
PL.29795	PL.29794	ABC	#1/0 ACSR	7.36Y	122.6	0.07	2.39	59.94	26	1268	381	96	0.64	0.1	2.203	0.066	0	0	0	261
PL.29772	PL.29795	A	#4 ACSR	7.36Y	122.6	0.00	2.39	1.49	1	11	3	96	0.00	0.0	2.208	0.004	0	0	0	1
PD.4102	PL.29772	A	65T	7.36Y	122.6	0.00	2.39	1.49	0	11	3	96	0.00	0.0	2.208	0.004	0	0	0	1
PL.29773	PD.4102	A	#4 ACSR	7.36Y	122.6	0.00	2.39	1.49	1	11	3	96	0.00	0.0	2.281	0.073	11	3	1	1
PL.29796	PL.29795	ABC	#1/0 ACSR	7.35Y	122.4	0.18	2.57	59.45	26	1257	377	96	1.56	0.1	2.369	0.165	0	0	0	260
PL.30071	PL.29796	C	1/0 AL URD	7.35Y	122.4	0.00	2.57	0.94	1	7	2	96	0.00	0.0	2.373	0.005	0	0	0	1
PD.4136	PL.30071	C	65T	7.35Y	122.4	0.00	2.57	0.94	0	7	2	96	0.00	0.0	2.373	0.005	0	0	0	1
PL.30072	PD.4136	C	1/0 AL URD	7.35Y	122.4	0.00	2.57	0.94	1	7	2	96	0.00	0.0	2.428	0.054	7	2	1	1
PL.29797	PL.29796	ABC	#1/0 ACSR	7.34Y	122.4	0.07	2.64	59.13	26	1248	374	96	0.64	0.1	2.438	0.069	0	0	0	258
PL.29701	PL.29797	A	#1/0 ACSR	7.34Y	122.4	0.00	2.64	1.21	1	9	2	98	0.00	0.0	2.442	0.004	0	0	0	2
PD.4105	PL.29701	A	65T	7.34Y	122.4	0.00	2.64	1.21	0	9	2	98	0.00	0.0	2.442	0.004	0	0	0	2
PL.29700	PD.4105	A	#1/0 ACSR	7.34Y	122.4	0.00	2.64	0.30	0	2	1	89	0.00	0.0	2.500	0.058	2	1	1	1
PL.29799	PD.4105	A	#1/0 ACSR	7.34Y	122.4	0.00	2.64	0.92	0	6	2	95	0.00	0.0	2.504	0.062	6	2	1	1
PL.29798	PL.29797	ABC	#1/0 ACSR	7.33Y	122.2	0.12	2.76	58.73	26	1239	371	96	1.04	0.1	2.551	0.113	0	0	0	256
PL.29800	PL.29798	ABC	#1/0 ACSR	7.33Y	122.1	0.12	2.88	58.31	25	1229	367	96	1.05	0.1	2.666	0.116	5	1	1	255

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Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.29801	PL.29800	ABC	#1/0 ACSR	7.32Y	122.0	0.10	2.99	56.86	25	1198	358	96	0.84	0.1	2.764	0.098	0	0	0	251
PL.29702	PL.29801	ABC	#1/0 ACSR	7.32Y	122.0	0.05	3.03	56.86	25	1197	357	96	0.39	0.0	2.809	0.045	0	0	0	251
PL.29802	PL.29702	ABC	#1/0 ACSR	7.31Y	121.8	0.16	3.20	52.28	23	1100	329	96	1.25	0.1	2.981	0.171	2	1	1	232
PL.29703	PL.29802	ABC	#1/0 ACSR	7.31Y	121.8	0.04	3.23	51.67	22	1086	324	96	0.29	0.0	3.021	0.040	1	0	1	229
PL.29704	PL.29703	ABC	#1/0 ACSR	7.30Y	121.7	0.02	3.26	51.61	22	1084	323	96	0.17	0.0	3.045	0.025	0	0	0	228
PL.29705	PL.29704	ABC	#1/0 ACSR	7.30Y	121.6	0.15	3.41	51.61	22	1084	323	96	1.16	0.1	3.208	0.163	0	0	0	228
PL.29851	PL.29705	ABC	#1/0 ACSR	7.29Y	121.4	0.14	3.55	51.61	22	1083	322	96	1.09	0.1	3.362	0.153	0	0	0	228
PL.30017	PL.29851	C	6 A (CWC)	7.29Y	121.4	0.00	3.55	3.53	3	25	7	96	0.00	0.0	3.366	0.004	0	0	0	5
PD.4110	PL.30017	C	65T	7.29Y	121.4	0.00	3.55	3.53	0	25	7	96	0.00	0.0	3.366	0.004	0	0	0	5
PL.30018	PD.4110	C	6 A (CWC)	7.29Y	121.4	0.03	3.58	3.53	3	25	7	96	0.00	0.0	3.529	0.163	2	1	1	5
PL.29907	PL.30018	C	6 A (CWC)	7.28Y	121.4	0.02	3.60	3.25	2	23	7	96	0.00	0.0	3.642	0.113	0	0	0	4
PL.29715	PL.29907	C	#4 ACSR	7.28Y	121.4	0.00	3.60	1.25	1	9	3	95	0.00	0.0	3.699	0.058	9	3	1	1
PL.29905	PL.29907	C	#4 ACSR	7.28Y	121.4	0.00	3.60	2.00	2	14	4	96	0.00	0.0	3.673	0.031	7	2	1	3
PL.29906	PL.29905	C	#4 ACSR	7.28Y	121.4	0.00	3.60	1.03	1	7	2	96	0.00	0.0	3.721	0.048	7	2	1	2
PL.29904	PL.29906	C	#4 ACSR	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	3.771	0.050	0	0	1	1
PL.29807	PL.29907	C	6 A (CWC)	7.28Y	121.4	0.00	3.60	0.00	0	0	0	100	0.00	0.0	3.714	0.073	0	0	0	0
PL.29806	PL.29851	ABC	#1/0 ACSR	7.28Y	121.4	0.06	3.62	50.43	22	1057	314	96	0.48	0.0	3.432	0.071	0	0	0	223
PL.29852	PL.29806	ABC	#1/0 ACSR	7.28Y	121.3	0.12	3.74	50.43	22	1056	313	96	0.91	0.1	3.566	0.134	0	0	0	223
PL.29717	PL.29852	ABC	#1/0 ACSR	7.27Y	121.1	0.12	3.86	49.16	21	1029	305	96	0.87	0.1	3.700	0.135	0	0	0	218
PL.29857	PL.29717	ABC	#1/0 ACSR	7.26Y	121.1	0.07	3.93	49.16	21	1028	304	96	0.52	0.1	3.782	0.081	0	0	0	218
PL.29881	PL.29857	ABC	#1/0 ACSR	7.26Y	121.0	0.11	4.04	49.16	21	1027	303	96	0.77	0.1	3.902	0.120	5	1	1	218
PL.30023	PL.29881	A	#4 ACSR	7.26Y	121.0	0.00	4.04	0.00	0	0	0	100	0.00	0.0	3.906	0.005	0	0	0	0
PD.4113	PL.30023	A	65T	7.26Y	121.0	0.00	4.04	0.00	0	0	0	100	0.00	0.0	3.906	0.005	0	0	0	0
PL.30024	PD.4113	A	#4 ACSR	7.26Y	121.0	0.00	4.04	0.00	0	0	0	100	0.00	0.0	3.944	0.037	0	0	0	0
PL.29882	PL.29881	ABC	#1/0 ACSR	7.25Y	120.9	0.05	4.09	48.93	21	1022	301	96	0.35	0.0	3.957	0.055	0	0	0	217
PL.30077	PL.29882	A	6 A (CWC)	7.25Y	120.9	0.00	4.09	7.01	5	49	14	96	0.00	0.0	3.962	0.005	0	0	0	6
PD.4139	PL.30077	A	65T	7.25Y	120.9	0.00	4.09	7.01	0	49	14	96	0.00	0.0	3.962	0.005	0	0	0	6
PL.30078	PD.4139	A	6 A (CWC)	7.25Y	120.9	0.04	4.13	7.01	5	49	14	96	0.01	0.0	4.078	0.116	1	0	1	6
PL.29912	PL.30078	A	#1/0 ACSR	7.25Y	120.9	0.00	4.13	2.89	1	20	6	96	0.00	0.0	4.127	0.049	11	3	2	3
PL.29913	PL.29912	A	#1/0 ACSR	7.25Y	120.9	0.00	4.13	1.27	1	9	3	95	0.00	0.0	4.261	0.134	9	3	1	1
PL.30019	PL.30078	A	1/0 AL URD	7.25Y	120.9	0.00	4.13	4.01	2	28	8	96	0.00	0.0	4.082	0.005	0	0	0	2

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Title: 2010-2013 CWP - Jackson Energy Co-op - McKee, Kentucky
Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.4111	PL.30019	A	40T	7.25Y	120.9	0.00	4.13	4.01	0	28	8	96	0.00	0.0	4.082	0.005	0	0	0	2
PL.30020	PD.4111	A	1/0 AL URD	7.25Y	120.9	0.00	4.13	4.01	2	28	8	96	0.00	0.0	4.144	0.062	28	8	2	2
PL.29809	PL.29882	ABC	#1/0 ACSR	7.25Y	120.8	0.09	4.18	46.59	20	972	287	96	0.63	0.1	4.066	0.109	0	0	0	211
PL.30021	PL.29809	A	6 A (CWC)	7.25Y	120.8	0.00	4.18	0.47	0	3	1	95	0.00	0.0	4.071	0.005	0	0	0	1
PD.4112	PL.30021	A	65T	7.25Y	120.8	0.00	4.18	0.47	0	3	1	95	0.00	0.0	4.071	0.005	0	0	0	1
PL.30022	PD.4112	A	6 A (CWC)	7.25Y	120.8	0.00	4.18	0.47	0	3	1	95	0.00	0.0	4.118	0.047	3	1	1	1
PL.29810	PL.29809	ABC	#1/0 ACSR	7.24Y	120.7	0.10	4.28	46.43	20	969	285	96	0.65	0.1	4.180	0.113	0	0	0	210
PL.29933	PL.29810	ABC	#1/0 ACSR	7.24Y	120.7	0.07	4.35	46.36	20	966	284	96	0.45	0.0	4.258	0.079	3	1	1	207
PL.29934	PL.29933	ABC	#1/0 ACSR	7.24Y	120.6	0.07	4.42	46.22	20	963	283	96	0.48	0.0	4.342	0.084	0	0	0	206
PL.30075	PL.29934	C	6 A (CWC)	7.24Y	120.6	0.00	4.42	1.17	1	8	2	97	0.00	0.0	4.347	0.005	0	0	0	2
PD.4138	PL.30075	C	65T	7.24Y	120.6	0.00	4.42	1.17	0	8	2	97	0.00	0.0	4.347	0.005	0	0	0	2
PL.30076	PD.4138	C	6 A (CWC)	7.23Y	120.6	0.00	4.42	1.17	1	8	2	97	0.00	0.0	4.434	0.087	8	2	2	2
PL.30031	PL.29934	A	#4 ACSR	7.24Y	120.6	0.00	4.42	1.24	1	9	2	98	0.00	0.0	4.347	0.005	0	0	0	1
PD.4116	PL.30031	A	65T	7.24Y	120.6	0.00	4.42	1.24	0	9	2	98	0.00	0.0	4.347	0.005	0	0	0	1
PL.30032	PD.4116	A	#4 ACSR	7.23Y	120.6	0.00	4.42	1.24	1	9	2	98	0.00	0.0	4.360	0.013	0	0	0	1
PL.29687	PL.30032	A	#2 ACSR	7.23Y	120.6	0.00	4.42	1.24	1	9	2	98	0.00	0.0	4.423	0.064	9	2	1	1
PL.29811	PL.29934	ABC	#1/0 ACSR	7.23Y	120.5	0.11	4.53	45.42	20	946	278	96	0.76	0.1	4.480	0.138	0	0	0	203
PL.29858	PL.29811	ABC	#1/0 ACSR	7.22Y	120.4	0.10	4.63	45.42	20	945	277	96	0.67	0.1	4.602	0.122	0	0	0	203
PL.29859	PL.29858	ABC	#1/0 ACSR	7.22Y	120.3	0.07	4.70	45.42	20	944	276	96	0.49	0.1	4.691	0.089	0	0	0	203
PL.30033	PL.29859	C	#4 ACSR	7.22Y	120.3	0.00	4.70	2.68	2	19	5	97	0.00	0.0	4.696	0.005	0	0	0	4
PD.4117	PL.30033	C	65T	7.22Y	120.3	0.00	4.70	2.68	0	19	5	97	0.00	0.0	4.696	0.005	0	0	0	4
PL.30034	PD.4117	C	#4 ACSR	7.22Y	120.3	0.00	4.71	2.68	2	19	5	97	0.00	0.0	4.705	0.010	0	0	0	4
PL.29684	PL.30034	C	6 A (CWC)	7.22Y	120.3	0.01	4.72	2.68	2	19	5	97	0.00	0.0	4.857	0.151	19	5	4	4
PL.29812	PL.29859	ABC	#1/0 ACSR	7.21Y	120.2	0.08	4.78	44.52	19	925	271	96	0.51	0.1	4.788	0.097	0	0	0	199
PL.29813	PL.29812	ABC	#1/0 ACSR	7.21Y	120.1	0.07	4.85	44.35	19	921	269	96	0.47	0.1	4.877	0.089	0	0	0	198
PL.29948	PL.29813	ABC	#1/0 ACSR	7.20Y	120.1	0.07	4.93	44.29	19	919	268	96	0.46	0.0	4.966	0.089	18	5	3	197
PL.30097	PL.29948	ABC	#1/0 ACSR	7.20Y	120.0	0.03	4.96	43.42	19	901	263	96	0.22	0.0	5.010	0.044	0	0	0	194
PD.4152	PL.30097	ABC	70L	7.20Y	120.0	0.00	4.96	43.42	62	901	263	96	0.00	0.0	5.010	0.044	0	0	0	194
PL.30098	PD.4152	ABC	#1/0 ACSR	7.20Y	120.0	0.06	5.02	43.42	19	901	263	96	0.38	0.0	5.086	0.076	0	0	0	194
PL.30089	PL.30098	A	#2 ACSR	7.20Y	120.0	0.00	5.02	17.13	10	118	34	96	0.00	0.0	5.089	0.003	0	0	0	31
PD.4148	PL.30089	A	35L	7.20Y	120.0	0.00	5.02	17.13	49	118	34	96	0.00	0.0	5.089	0.003	0	0	0	31

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: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.30090	PD.4148	A	#2 ACSR	7.20Y	119.9	0.04	5.06	17.13	10	118	34	96	0.03	0.0	5.161	0.073	7	2	1	31
PL.29686	PL.30090	A	#2 ACSR	7.20Y	119.9	0.00	5.06	0.00	0	0	0	100	0.00	0.0	5.262	0.101	0	0	1	1
PL.29878	PL.30090	A	#2 ACSR	7.20Y	119.9	0.02	5.08	16.15	9	112	32	96	0.02	0.0	5.203	0.042	0	0	0	29
PL.29690	PL.29878	A	#2 ACSR	7.20Y	119.9	0.00	5.08	0.74	0	5	1	98	0.00	0.0	5.239	0.035	5	1	5	5
PL.29877	PL.29878	A	#2 ACSR	7.19Y	119.9	0.02	5.10	14.11	8	98	28	96	0.02	0.0	5.255	0.051	0	0	0	23
PL.29691	PL.29877	A	#2 ACSR	7.19Y	119.9	0.00	5.10	1.11	1	8	2	97	0.00	0.0	5.296	0.042	8	2	1	1
PL.29814	PL.29877	A	#2 ACSR	7.19Y	119.9	0.02	5.13	12.99	7	90	26	96	0.02	0.0	5.313	0.059	3	1	2	22
PL.29815	PL.29814	A	#2 ACSR	7.19Y	119.9	0.02	5.15	12.56	7	87	25	96	0.01	0.0	5.359	0.046	0	0	0	20
PL.29875	PL.29815	A	6 A (CWC)	7.19Y	119.8	0.03	5.18	12.56	9	87	25	96	0.02	0.0	5.418	0.059	0	0	0	20
PL.29692	PL.29875	A	6 A (CWC)	7.19Y	119.8	0.00	5.18	0.08	0	1	0	100	0.00	0.0	5.494	0.077	1	0	1	1
PL.29876	PL.29875	A	6 A (CWC)	7.19Y	119.8	0.06	5.23	12.48	9	86	25	96	0.04	0.0	5.515	0.097	0	0	0	19
PL.29931	PL.29876	A	6 A (CWC)	7.18Y	119.7	0.04	5.27	11.64	8	80	23	96	0.02	0.0	5.590	0.075	5	1	1	17
PL.29932	PL.29931	A	6 A (CWC)	7.18Y	119.7	0.04	5.31	10.89	8	75	22	96	0.02	0.0	5.671	0.082	10	3	1	16
PL.29929	PL.29932	A	#2 ACSR	7.18Y	119.7	0.03	5.34	9.42	5	65	19	96	0.01	0.0	5.784	0.112	6	2	1	15
PL.29930	PL.29929	A	#2 ACSR	7.18Y	119.6	0.02	5.37	8.54	5	59	17	96	0.01	0.0	5.871	0.088	0	0	0	14
PL.29874	PL.29930	A	#2 ACSR	7.18Y	119.6	0.02	5.39	6.26	4	43	12	96	0.01	0.0	5.974	0.103	0	0	0	13
PL.29721	PL.29874	A	#4 ACSR	7.18Y	119.6	0.00	5.39	0.70	1	5	1	98	0.00	0.0	6.054	0.080	3	1	1	3
PL.29923	PL.29721	A	#2 ACSR	7.18Y	119.6	0.00	5.39	0.21	0	1	0	100	0.00	0.0	6.086	0.033	0	0	1	2
PL.29924	PL.29923	A	#2 ACSR	7.18Y	119.6	0.00	5.39	0.16	0	1	0	100	0.00	0.0	6.233	0.146	1	0	1	1
PL.29927	PL.29874	A	#2 ACSR	7.18Y	119.6	0.01	5.39	5.56	3	38	11	96	0.00	0.0	6.021	0.047	10	3	2	10
PL.29928	PL.29927	A	#2 ACSR	7.18Y	119.6	0.01	5.41	4.08	2	28	8	96	0.00	0.0	6.119	0.099	0	0	0	8
PL.29722	PL.29928	A	6 A (CWC)	7.18Y	119.6	0.01	5.42	1.82	1	13	4	96	0.00	0.0	6.230	0.111	4	1	1	4
PL.29724	PL.29722	A	6 A (CWC)	7.18Y	119.6	0.00	5.42	0.02	0	0	0	100	0.00	0.0	6.310	0.080	0	0	1	1
PL.29816	PL.29722	A	6 A (CWC)	7.17Y	119.6	0.00	5.42	1.19	1	8	2	97	0.00	0.0	6.344	0.114	8	2	2	2
PL.29723	PL.29928	A	6 A (CWC)	7.18Y	119.6	0.00	5.41	1.20	1	8	2	97	0.00	0.0	6.176	0.056	8	2	2	2
PL.29925	PL.29928	A	6 A (CWC)	7.18Y	119.6	0.00	5.41	1.05	1	7	2	96	0.00	0.0	6.222	0.102	7	2	1	2
PL.29926	PL.29925	A	6 A (CWC)	7.18Y	119.6	0.00	5.41	0.02	0	0	0	100	0.00	0.0	6.265	0.043	0	0	1	1
PL.29720	PL.29930	A	6 A (CWC)	7.18Y	119.6	0.00	5.37	2.28	2	16	5	95	0.00	0.0	5.891	0.019	16	5	1	1
PL.29693	PL.29876	A	#4 ACSR	7.19Y	119.8	0.00	5.24	0.83	1	6	2	95	0.00	0.0	5.531	0.016	6	2	2	2
PL.29689	PL.29878	A	#1/0 ACSR	7.20Y	119.9	0.00	5.08	1.31	1	9	3	95	0.00	0.0	5.258	0.055	9	3	1	1
PL.29935	PL.30098	ABC	#1/0 ACSR	7.19Y	119.9	0.08	5.10	37.71	16	782	228	96	0.44	0.1	5.203	0.117	14	4	3	163

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.29936	PL.29935	ABC	#1/0 ACSR	7.19Y	119.9	0.05	5.15	37.04	16	767	224	96	0.26	0.0	5.275	0.072	11	3	1	160
PL.29940	PL.29936	B	#1/0 ACSR	7.19Y	119.9	0.00	5.15	1.95	1	14	4	96	0.00	0.0	5.316	0.041	8	2	1	2
PL.29941	PL.29940	B	#1/0 ACSR	7.19Y	119.9	0.00	5.15	0.80	0	6	2	95	0.00	0.0	5.372	0.056	6	2	1	1
PL.29884	PL.29936	ABC	#1/0 ACSR	7.19Y	119.8	0.05	5.20	35.88	16	743	217	96	0.29	0.0	5.359	0.084	0	0	0	157
PL.30091	PL.29884	B	#4 ACSR	7.19Y	119.8	0.00	5.20	8.02	6	55	16	96	0.00	0.0	5.361	0.003	0	0	0	16
PD.4149	PL.30091	B	35L	7.19Y	119.8	0.00	5.20	8.02	23	55	16	96	0.00	0.0	5.361	0.003	0	0	0	16
PL.30092	PD.4149	B	#4 ACSR	7.19Y	119.8	0.02	5.23	8.02	6	55	16	96	0.01	0.0	5.429	0.068	0	0	0	16
PL.29817	PL.30092	B	#4 ACSR	7.19Y	119.8	0.00	5.23	7.83	6	54	16	96	0.00	0.0	5.444	0.014	7	2	1	15
PL.29937	PL.29817	B	6 A (CWC)	7.18Y	119.7	0.03	5.26	6.87	5	47	14	96	0.01	0.0	5.529	0.085	4	1	2	14
PL.29938	PL.29937	B	6 A (CWC)	7.18Y	119.7	0.02	5.27	6.32	5	44	13	96	0.00	0.0	5.591	0.062	11	3	2	12
PL.29939	PL.29938	B	6 A (CWC)	7.18Y	119.7	0.01	5.29	4.73	3	33	9	96	0.00	0.0	5.652	0.061	0	0	0	10
PL.29726	PL.29939	B	6 A (CWC)	7.18Y	119.7	0.01	5.30	4.71	3	33	9	96	0.00	0.0	5.701	0.049	0	0	0	9
PL.29879	PL.29726	B	#1/0 ACSR	7.18Y	119.7	0.01	5.30	4.71	2	33	9	96	0.00	0.0	5.755	0.054	1	0	1	9
PL.29880	PL.29879	B	#1/0 ACSR	7.18Y	119.7	0.01	5.31	3.80	2	26	8	96	0.00	0.0	5.885	0.130	0	0	0	7
PL.29949	PL.29880	B	#1/0 ACSR	7.18Y	119.7	0.01	5.32	3.80	2	26	8	96	0.00	0.0	5.982	0.097	0	0	2	7
PL.29950	PL.29949	B	#1/0 ACSR	7.18Y	119.7	0.00	5.33	3.79	2	26	7	97	0.00	0.0	6.032	0.050	0	0	0	5
PL.29688	PL.29950	B	6 A (CWC)	7.18Y	119.7	0.01	5.33	0.84	1	6	2	95	0.00	0.0	6.166	0.134	0	0	0	1
PL.29861	PL.29688	B	6 A (CWC)	7.18Y	119.7	0.00	5.34	0.84	1	6	2	95	0.00	0.0	6.310	0.144	6	2	1	1
PL.29951	PL.29950	B	#4 ACSR	7.18Y	119.7	0.00	5.33	2.95	2	20	6	96	0.00	0.0	6.062	0.030	10	3	2	4
PL.29952	PL.29951	B	#4 ACSR	7.18Y	119.7	0.00	5.33	1.52	1	10	3	96	0.00	0.0	6.106	0.043	8	2	1	2
PL.29953	PL.29952	B	#4 ACSR	7.18Y	119.7	0.00	5.33	0.36	0	3	1	95	0.00	0.0	6.204	0.098	3	1	1	1
PL.29727	PL.29879	B	#1/0 ACSR	7.18Y	119.7	0.00	5.30	0.80	0	6	2	95	0.00	0.0	5.798	0.043	6	2	1	1
PL.29818	PL.29939	B	6 A (CWC)	7.18Y	119.7	0.00	5.29	0.02	0	0	0	100	0.00	0.0	5.710	0.058	0	0	1	1
PL.29725	PL.30092	B	#4 ACSR	7.19Y	119.8	0.00	5.23	0.20	0	1	0	100	0.00	0.0	5.518	0.089	0	0	0	1
PL.29860	PL.29725	B	#4 ACSR	7.19Y	119.8	0.00	5.23	0.20	0	1	0	100	0.00	0.0	5.622	0.104	1	0	1	1
PL.30079	PL.29884	C	#1/0 ACSR	7.19Y	119.8	0.00	5.20	1.36	1	9	3	95	0.00	0.0	5.363	0.005	0	0	0	1
PD.4140	PL.30079	C	30T	7.19Y	119.8	0.00	5.20	1.36	0	9	3	95	0.00	0.0	5.363	0.005	0	0	0	1
PL.30080	PD.4140	C	#1/0 ACSR	7.19Y	119.8	0.00	5.20	1.36	1	9	3	95	0.00	0.0	5.414	0.051	9	3	1	1
PL.29944	PL.29884	ABC	#1/0 ACSR	7.19Y	119.8	0.02	5.23	32.75	14	678	198	96	0.11	0.0	5.397	0.039	2	0	1	140
PL.29945	PL.29944	ABC	#1/0 ACSR	7.18Y	119.7	0.08	5.30	32.68	14	676	197	96	0.36	0.1	5.526	0.128	5	1	2	139
PL.29942	PL.29945	ABC	#1/0 ACSR	7.18Y	119.7	0.02	5.32	32.44	14	671	195	96	0.07	0.0	5.552	0.026	0	0	1	137

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.29943	PL.29942	ABC	#1/0 ACSR	7.18Y	119.6	0.04	5.36	32.44	14	671	195	96	0.19	0.0	5.619	0.068	0	0	0	136
PL.30037	PL.29943	A	#4 ACSR	7.18Y	119.6	0.00	5.36	0.31	0	2	1	89	0.00	0.0	5.624	0.005	0	0	0	1
PD.4119	PL.30037	A	30T	7.18Y	119.6	0.00	5.36	0.31	0	2	1	89	0.00	0.0	5.624	0.005	0	0	0	1
PL.30038	PD.4119	A	#4 ACSR	7.18Y	119.6	0.00	5.36	0.31	0	2	1	89	0.00	0.0	5.655	0.031	2	1	1	1
PL.29946	PL.29943	ABC	#1/0 ACSR	7.18Y	119.6	0.05	5.40	32.34	14	669	195	96	0.22	0.0	5.698	0.079	3	1	1	135
PL.29947	PL.29946	ABC	#1/0 ACSR	7.17Y	119.5	0.09	5.49	32.18	14	665	193	96	0.41	0.1	5.846	0.147	0	0	0	134
PL.29819	PL.29947	ABC	#1/0 ACSR	7.17Y	119.5	0.03	5.52	32.05	14	662	192	96	0.14	0.0	5.899	0.053	0	0	0	132
PL.30041	PL.29819	C	6 A (CWC)	7.17Y	119.5	0.00	5.52	2.09	1	14	4	96	0.00	0.0	5.903	0.005	0	0	0	3
PD.4121	PL.30041	C	30T	7.17Y	119.5	0.00	5.52	2.09	0	14	4	96	0.00	0.0	5.903	0.005	0	0	0	3
PL.30042	PD.4121	C	6 A (CWC)	7.17Y	119.5	0.01	5.53	2.09	1	14	4	96	0.00	0.0	6.003	0.099	6	2	2	3
PL.29729	PL.30042	C	#1/0 ACSR	7.17Y	119.5	0.00	5.53	1.18	1	8	2	97	0.00	0.0	6.084	0.081	8	2	1	1
PL.29820	PL.29819	ABC	#1/0 ACSR	7.17Y	119.4	0.05	5.57	31.36	14	648	188	96	0.22	0.0	5.984	0.085	0	0	0	129
PL.29862	PL.29820	ABC	#1/0 ACSR	7.16Y	119.3	0.08	5.65	31.36	14	647	188	96	0.38	0.1	6.130	0.147	0	0	0	129
PL.29821	PL.29862	ABC	#1/0 ACSR	7.16Y	119.3	0.06	5.71	31.18	14	643	186	96	0.29	0.0	6.241	0.110	0	0	0	127
PL.29973	PL.29821	ABC	#1/0 ACSR	7.15Y	119.2	0.04	5.75	20.05	9	414	120	96	0.11	0.0	6.345	0.104	18	5	2	82
PL.29974	PL.29973	ABC	#1/0 ACSR	7.15Y	119.2	0.03	5.78	19.16	8	395	114	96	0.09	0.0	6.435	0.089	0	0	0	80
PL.29864	PL.29974	ABC	#1/0 ACSR	7.15Y	119.2	0.04	5.82	19.16	8	395	114	96	0.12	0.0	6.555	0.120	0	0	0	80
PL.30055	PL.29864	C	#4 ACSR	7.15Y	119.2	0.00	5.82	1.05	1	7	2	96	0.00	0.0	6.559	0.005	0	0	0	1
PD.4128	PL.30055	C	30T	7.15Y	119.2	0.00	5.82	1.05	0	7	2	96	0.00	0.0	6.559	0.005	0	0	0	1
PL.30056	PD.4128	C	#4 ACSR	7.15Y	119.2	0.00	5.82	1.05	1	7	2	96	0.00	0.0	6.570	0.011	0	0	0	1
PL.29975	PL.30056	C	#4 ACSR	7.15Y	119.2	0.00	5.83	1.05	1	7	2	96	0.00	0.0	6.628	0.057	7	2	1	1
PL.29976	PL.29975	C	#4 ACSR	7.15Y	119.2	0.00	5.83	0.00	0	0	0	100	0.00	0.0	6.657	0.029	0	0	0	0
PL.29827	PL.29864	ABC	#1/0 ACSR	7.15Y	119.2	0.01	5.83	18.81	8	388	112	96	0.02	0.0	6.580	0.025	0	0	0	79
PL.29828	PL.29827	ABC	#1/0 ACSR	7.15Y	119.1	0.03	5.86	17.55	8	362	104	96	0.07	0.0	6.669	0.089	0	0	0	77
PL.29885	PL.29828	ABC	#1/0 ACSR	7.15Y	119.1	0.04	5.90	17.44	8	359	104	96	0.11	0.0	6.799	0.130	0	0	0	75
PL.29887	PL.29885	ABC	#1/0 ACSR	7.14Y	119.1	0.02	5.92	17.01	7	350	101	96	0.05	0.0	6.864	0.065	0	0	0	72
PL.30061	PL.29887	A	#2 ACSR	7.14Y	119.1	0.00	5.92	3.49	2	24	7	96	0.00	0.0	6.869	0.005	0	0	0	2
PD.4131	PL.30061	A	30T	7.14Y	119.1	0.00	5.92	3.49	0	24	7	96	0.00	0.0	6.869	0.005	0	0	0	2
PL.30062	PD.4131	A	#2 ACSR	7.14Y	119.1	0.00	5.92	3.49	2	24	7	96	0.00	0.0	6.894	0.025	24	7	2	2
PL.29888	PL.29887	ABC	#1/0 ACSR	7.14Y	119.1	0.03	5.95	15.85	7	326	94	96	0.06	0.0	6.961	0.097	0	0	0	70
PL.29964	PL.29888	ABC	#1/0 ACSR	7.14Y	119.0	0.02	5.97	14.52	6	299	86	96	0.04	0.0	7.040	0.079	8	2	1	63

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.29965	PL.29964	ABC	#1/0 ACSR	7.14Y	119.0	0.03	6.00	14.12	6	291	84	96	0.06	0.0	7.149	0.109	11	3	2	62
PL.29966	PL.29965	ABC	#1/0 ACSR	7.14Y	119.0	0.01	6.00	13.61	6	280	81	96	0.01	0.0	7.175	0.026	6	2	1	60
PL.29830	PL.29966	ABC	#1/0 ACSR	7.14Y	119.0	0.02	6.03	11.91	5	245	71	96	0.04	0.0	7.289	0.115	0	0	0	48
PL.30069	PL.29830	ABC	#4 ACSR	7.14Y	119.0	0.00	6.03	0.00	0	0	0	100	0.00	0.0	7.294	0.005	0	0	0	1
PD.4135	PL.30069	ABC	30T	7.14Y	119.0	0.00	6.03	0.00	0	0	0	100	0.00	0.0	7.294	0.005	0	0	0	1
PL.30070	PD.4135	ABC	#4 ACSR	7.14Y	119.0	0.00	6.03	0.00	0	0	0	100	0.00	0.0	7.422	0.128	0	0	1	1
PL.29831	PL.29830	ABC	#1/0 ACSR	7.14Y	119.0	0.01	6.04	11.91	5	245	71	96	0.02	0.0	7.355	0.065	0	0	0	47
PL.29832	PL.29831	ABC	#1/0 ACSR	7.14Y	118.9	0.01	6.06	11.48	5	236	68	96	0.02	0.0	7.414	0.059	3	1	1	45
PL.30093	PL.29832	B	#1/0 ACSR	7.14Y	118.9	0.00	6.06	29.32	13	201	58	96	0.00	0.0	7.417	0.003	0	0	0	35
PD.4150	PL.30093	B	50L	7.14Y	118.9	0.00	6.06	29.32	59	201	58	96	0.00	0.0	7.417	0.003	0	0	0	35
PL.30094	PD.4150	B	#1/0 ACSR	7.13Y	118.9	0.09	6.15	29.32	13	201	58	96	0.12	0.1	7.542	0.125	0	0	0	35
PL.29971	PL.30094	B	#1/0 ACSR	7.13Y	118.8	0.05	6.19	29.32	13	201	58	96	0.06	0.0	7.607	0.065	5	1	1	35
PL.29743	PL.29971	B	6 A (CWC)	7.13Y	118.8	0.00	6.19	0.00	0	0	0	100	0.00	0.0	7.701	0.094	0	0	0	1
PL.29744	PL.29743	B	#2 ACSR	7.13Y	118.8	0.00	6.19	0.00	0	0	0	100	0.00	0.0	7.731	0.031	0	0	1	1
PL.29833	PL.29971	B	#1/0 ACSR	7.13Y	118.8	0.05	6.25	26.51	12	182	52	96	0.07	0.0	7.690	0.083	0	0	0	32
PL.29834	PL.29833	B	#1/0 ACSR	7.12Y	118.7	0.07	6.32	24.49	11	168	48	96	0.08	0.0	7.808	0.118	0	0	0	30
PL.29867	PL.29834	B	#1/0 ACSR	7.12Y	118.6	0.09	6.40	24.49	11	168	48	96	0.10	0.1	7.952	0.144	0	0	0	30
PL.29745	PL.29867	B	6 A (CWC)	7.11Y	118.5	0.09	6.50	13.48	10	92	26	96	0.07	0.1	8.107	0.155	3	1	1	16
PL.29990	PL.29745	B	6 A (CWC)	7.11Y	118.5	0.01	6.50	5.08	4	35	10	96	0.00	0.0	8.161	0.054	18	5	2	5
PL.29991	PL.29990	B	6 A (CWC)	7.11Y	118.5	0.00	6.51	2.41	2	16	5	95	0.00	0.0	8.181	0.021	0	0	0	3
PL.30063	PL.29991	B	#1/0 ACSR	7.11Y	118.5	0.00	6.51	0.56	0	4	1	97	0.00	0.0	8.186	0.005	0	0	0	1
PD.4132	PL.30063	B	20T	7.11Y	118.5	0.00	6.51	0.56	0	4	1	97	0.00	0.0	8.186	0.005	0	0	0	1
PL.30064	PD.4132	B	#1/0 ACSR	7.11Y	118.5	0.00	6.51	0.56	0	4	1	97	0.00	0.0	8.196	0.010	4	1	1	1
PL.29992	PL.29991	B	6 A (CWC)	7.11Y	118.5	0.00	6.51	1.85	1	13	4	96	0.00	0.0	8.217	0.035	7	2	1	2
PL.29993	PL.29992	B	6 A (CWC)	7.11Y	118.5	0.00	6.51	0.76	1	5	1	98	0.00	0.0	8.283	0.066	5	1	1	1
PL.29985	PL.29745	B	#4 ACSR	7.11Y	118.5	0.01	6.51	7.98	6	55	16	96	0.01	0.0	8.147	0.040	0	0	0	10
PL.29986	PL.29985	B	#4 ACSR	7.11Y	118.5	0.01	6.52	7.98	6	55	16	96	0.00	0.0	8.177	0.030	8	2	1	10
PL.29987	PL.29986	B	#4 ACSR	7.11Y	118.5	0.01	6.53	6.74	5	46	13	96	0.00	0.0	8.219	0.042	17	5	5	9
PL.29890	PL.29987	B	#4 ACSR	7.11Y	118.5	0.01	6.54	2.22	2	15	4	97	0.00	0.0	8.283	0.063	0	0	0	2
PL.29788	PL.29890	B	#4 ACSR	7.11Y	118.5	0.00	6.54	0.86	1	6	2	95	0.00	0.0	8.346	0.063	6	2	1	1
PL.29747	PL.29890	B	#4 ACSR	7.11Y	118.5	0.00	6.54	1.36	1	9	3	95	0.00	0.0	8.327	0.045	9	3	1	1

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.29746	PL.29987	B	#4 ACSR	7.11Y	118.5	0.01	6.54	1.99	2	14	4	96	0.00	0.0	8.345	0.126	14	4	2	2
PL.29835	PL.29867	B	#1/0 ACSR	7.11Y	118.6	0.03	6.43	11.01	5	75	22	96	0.02	0.0	8.063	0.111	0	0	0	14
PL.29836	PL.29835	B	#1/0 ACSR	7.11Y	118.5	0.03	6.46	9.82	4	67	19	96	0.01	0.0	8.185	0.122	5	2	2	13
PL.29749	PL.29836	B	#2 ACSR	7.11Y	118.5	0.00	6.46	0.13	0	1	0	100	0.00	0.0	8.265	0.080	1	0	1	1
PL.29994	PL.29836	B	#1/0 ACSR	7.11Y	118.5	0.02	6.47	8.91	4	61	17	96	0.01	0.0	8.260	0.075	0	0	0	10
PL.29995	PL.29994	B	#1/0 ACSR	7.11Y	118.5	0.01	6.49	8.91	4	61	17	96	0.01	0.0	8.335	0.075	14	4	2	10
PL.29751	PL.29995	B	#2 ACSR	7.11Y	118.5	0.00	6.49	1.46	1	10	3	96	0.00	0.0	8.391	0.056	10	3	2	2
PL.29996	PL.29995	B	#1/0 ACSR	7.11Y	118.5	0.00	6.49	2.58	1	18	5	96	0.00	0.0	8.403	0.067	13	4	2	3
PL.29997	PL.29996	B	#1/0 ACSR	7.11Y	118.5	0.00	6.49	0.61	0	4	1	97	0.00	0.0	8.455	0.052	0	0	0	1
PL.29869	PL.29997	B	#1/0 ACSR	7.11Y	118.5	0.00	6.49	0.00	0	0	0	100	0.00	0.0	8.458	0.003	0	0	0	0
PD.11609-A	PL.29869	B	Open	7.11Y	118.5	0.00	6.49	0.00	0	0	0	100	0.00	0.0	8.458	0.003	0	0	0	0
PL.29750	PL.29997	B	#1/0 ACSR	7.11Y	118.5	0.00	6.49	0.61	0	4	1	97	0.00	0.0	8.496	0.041	4	1	1	1
PL.29752	PL.29995	B	#4 ACSR	7.11Y	118.5	0.00	6.49	2.88	2	20	6	96	0.00	0.0	8.346	0.011	0	0	0	3
PL.29988	PL.29752	B	#4 ACSR	7.11Y	118.5	0.00	6.49	2.88	2	20	6	96	0.00	0.0	8.395	0.049	12	3	2	3
PL.29989	PL.29988	B	#4 ACSR	7.11Y	118.5	0.00	6.50	1.11	1	8	2	97	0.00	0.0	8.423	0.028	8	2	1	1
PL.29748	PL.29835	B	#2 ACSR	7.11Y	118.6	0.00	6.43	1.20	1	8	2	97	0.00	0.0	8.097	0.034	8	2	1	1
PL.29983	PL.29833	B	#1/0 ACSR	7.13Y	118.8	0.00	6.25	2.02	1	14	4	96	0.00	0.0	7.767	0.077	6	2	1	2
PL.29984	PL.29983	B	#1/0 ACSR	7.13Y	118.8	0.00	6.25	1.10	0	8	2	97	0.00	0.0	7.808	0.042	8	2	1	1
PL.29742	PL.29971	B	#1/0 ACSR	7.13Y	118.8	0.00	6.19	2.09	1	14	4	96	0.00	0.0	7.620	0.013	14	4	1	1
PL.30085	PL.29832	C	6 A (CWC)	7.14Y	118.9	0.00	6.06	4.71	3	32	9	96	0.00	0.0	7.419	0.005	0	0	0	9
PD.4144	PL.30085	C	30T	7.14Y	118.9	0.00	6.06	4.71	0	32	9	96	0.00	0.0	7.419	0.005	0	0	0	9
PL.30086	PD.4144	C	6 A (CWC)	7.14Y	118.9	0.02	6.07	4.71	3	32	9	96	0.00	0.0	7.495	0.076	0	0	0	9
PL.29969	PL.30086	C	6 A (CWC)	7.13Y	118.9	0.02	6.09	4.71	3	32	9	96	0.00	0.0	7.592	0.098	9	2	3	9
PL.29970	PL.29969	C	6 A (CWC)	7.13Y	118.9	0.02	6.11	3.46	2	24	7	96	0.00	0.0	7.709	0.117	0	0	0	6
PL.29866	PL.29970	C	6 A (CWC)	7.13Y	118.9	0.01	6.12	3.46	2	24	7	96	0.00	0.0	7.788	0.079	10	3	1	6
PL.29739	PL.29866	C	#1/0 ACSR	7.13Y	118.9	0.00	6.12	0.70	0	5	1	98	0.00	0.0	7.953	0.164	0	0	0	3
PL.29740	PL.29739	C	#1/0 ACSR	7.13Y	118.9	0.00	6.12	0.70	0	5	1	98	0.00	0.0	8.090	0.138	0	0	0	3
PL.29741	PL.29740	C	#1/0 ACSR	7.13Y	118.9	0.00	6.12	0.68	0	5	1	98	0.00	0.0	8.173	0.083	5	1	2	2
PL.30047	PL.29740	C	#1/0 ACSR	7.13Y	118.9	0.00	6.12	0.02	0	0	0	100	0.00	0.0	8.095	0.005	0	0	0	1
PD.4124	PL.30047	C	20T	7.13Y	118.9	0.00	6.12	0.02	0	0	0	100	0.00	0.0	8.095	0.005	0	0	0	1
PL.30048	PD.4124	C	#1/0 ACSR	7.13Y	118.9	0.00	6.12	0.02	0	0	0	100	0.00	0.0	8.131	0.036	0	0	1	1

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.29837	PL.29739	C	#1/0 ACSR	7.13Y	118.9	0.00	6.12	0.00	0	0	0	100	0.00	0.0	7.982	0.029	0	0	0	0
PL.29967	PL.29866	C	#1/0 ACSR	7.13Y	118.9	0.00	6.12	1.24	1	9	2	98	0.00	0.0	7.873	0.085	8	2	1	2
PL.29968	PL.29967	C	#1/0 ACSR	7.13Y	118.9	0.00	6.12	0.00	0	0	0	100	0.00	0.0	7.983	0.109	0	0	1	1
PL.30087	PL.29832	ABC	#1/0 ACSR	7.14Y	118.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	7.491	0.077	0	0	0	0
PD.4145-A	PL.30087	ABC	Open	7.14Y	118.9	0.00	6.06	0.00	0	0	0	100	0.00	0.0	7.491	0.077	0	0	0	0
PL.30049	PL.29831	B	6 A (CWC)	7.14Y	119.0	0.00	6.04	1.29	1	9	3	95	0.00	0.0	7.359	0.005	0	0	0	2
PD.4125	PL.30049	B	30T	7.14Y	119.0	0.00	6.04	1.29	0	9	3	95	0.00	0.0	7.359	0.005	0	0	0	2
PL.30050	PD.4125	B	6 A (CWC)	7.14Y	119.0	0.00	6.05	1.29	1	9	3	95	0.00	0.0	7.444	0.085	9	3	2	2
PL.30045	PL.29966	C	#4 ACSR	7.14Y	119.0	0.00	6.00	0.88	1	6	2	95	0.00	0.0	7.179	0.005	0	0	0	1
PD.4123	PL.30045	C	30T	7.14Y	119.0	0.00	6.00	0.88	0	6	2	95	0.00	0.0	7.179	0.005	0	0	0	1
PL.30046	PD.4123	C	#4 ACSR	7.14Y	119.0	0.00	6.01	0.88	1	6	2	95	0.00	0.0	7.248	0.069	6	2	1	1
PL.29963	PL.30046	C	#4 ACSR	7.14Y	119.0	0.00	6.01	0.00	0	0	0	100	0.00	0.0	7.332	0.083	0	0	0	0
PL.29865	PL.29963	C	#4 ACSR	7.14Y	119.0	0.00	6.01	0.00	0	0	0	100	0.00	0.0	7.476	0.144	0	0	0	0
PL.29737	PL.29966	A	#4 ACSR	7.14Y	119.0	0.00	6.00	3.30	3	23	6	97	0.00	0.0	7.179	0.005	0	0	0	10
PD.4143	PL.29737	A	30T	7.14Y	119.0	0.00	6.00	3.30	0	23	6	97	0.00	0.0	7.179	0.005	0	0	0	10
PL.29889	PD.4143	A	#4 ACSR	7.14Y	119.0	0.01	6.01	2.88	2	20	6	96	0.00	0.0	7.244	0.064	0	0	1	9
PL.30014	PL.29889	A	#4 ACSR	7.14Y	119.0	0.00	6.02	2.88	2	20	6	96	0.00	0.0	7.286	0.043	11	3	4	8
PL.29738	PL.30014	A	#1/0 ACSR	7.14Y	119.0	0.00	6.02	1.31	1	9	3	95	0.00	0.0	7.366	0.079	9	3	4	4
PL.29829	PD.4143	A	#4 ACSR	7.14Y	119.0	0.00	6.01	0.42	0	3	1	95	0.00	0.0	7.215	0.035	3	1	1	1
PL.30043	PL.29888	A	#1/0 ACSR	7.14Y	119.1	0.00	5.95	0.00	0	0	0	100	0.00	0.0	6.965	0.005	0	0	0	0
PD.4122	PL.30043	A	30T	7.14Y	119.1	0.00	5.95	0.00	0	0	0	100	0.00	0.0	6.965	0.005	0	0	0	0
PL.30044	PD.4122	A	#1/0 ACSR	7.14Y	119.1	0.00	5.95	0.00	0	0	0	100	0.00	0.0	7.009	0.043	0	0	0	0
PL.30083	PL.29888	C	6 A (CWC)	7.14Y	119.0	0.00	5.95	3.98	3	27	8	96	0.00	0.0	6.966	0.005	0	0	0	7
PD.4142	PL.30083	C	30T	7.14Y	119.0	0.00	5.95	3.98	0	27	8	96	0.00	0.0	6.966	0.005	0	0	0	7
PL.30084	PD.4142	C	6 A (CWC)	7.14Y	119.0	0.00	5.96	3.98	3	27	8	96	0.00	0.0	7.015	0.049	27	8	7	7
PL.30059	PL.29885	C	#2 ACSR	7.15Y	119.1	0.00	5.90	1.27	1	9	3	95	0.00	0.0	6.804	0.005	0	0	0	3
PD.4130	PL.30059	C	30T	7.15Y	119.1	0.00	5.90	1.27	0	9	3	95	0.00	0.0	6.804	0.005	0	0	0	3
PL.30060	PD.4130	C	#2 ACSR	7.15Y	119.1	0.00	5.90	1.27	1	9	3	95	0.00	0.0	6.827	0.023	0	0	0	3
PL.29961	PL.30060	C	#1/0 ACSR	7.15Y	119.1	0.00	5.90	1.27	1	9	3	95	0.00	0.0	6.870	0.043	0	0	1	3
PL.29962	PL.29961	C	#1/0 ACSR	7.15Y	119.1	0.00	5.91	1.27	1	9	3	95	0.00	0.0	6.922	0.052	9	3	2	2
PL.30057	PL.29828	C	#4 ACSR	7.15Y	119.1	0.00	5.86	0.33	0	2	1	89	0.00	0.0	6.673	0.005	0	0	0	2

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.4129	PL.30057	C	30T	7.15Y	119.1	0.00	5.86	0.33	0	2	1	89	0.00	0.0	6.673	0.005	0	0	0	2
PL.30058	PD.4129	C	#4 ACSR	7.15Y	119.1	0.00	5.86	0.33	0	2	1	89	0.00	0.0	6.727	0.053	0	0	1	2
PL.29982	PL.30058	C	#4 ACSR	7.15Y	119.1	0.00	5.86	0.33	0	2	1	89	0.00	0.0	6.790	0.063	2	1	1	1
PL.30053	PL.29827	C	#1/0 ACSR	7.15Y	119.2	0.00	5.83	3.80	2	26	7	97	0.00	0.0	6.585	0.005	0	0	0	2
PD.4127	PL.30053	C	30T	7.15Y	119.2	0.00	5.83	3.80	0	26	7	97	0.00	0.0	6.585	0.005	0	0	0	2
PL.30054	PD.4127	C	#1/0 ACSR	7.15Y	119.2	0.00	5.83	3.80	2	26	7	97	0.00	0.0	6.605	0.020	26	7	2	2
PL.30095	PL.29821	C	6 A (CWC)	7.16Y	119.3	0.00	5.72	32.43	23	223	65	96	0.01	0.0	6.244	0.003	0	0	0	44
PD.4151	PL.30095	C	50L	7.16Y	119.3	0.00	5.72	32.43	65	223	65	96	0.00	0.0	6.244	0.003	0	0	0	44
PL.30096	PD.4151	C	6 A (CWC)	7.14Y	119.1	0.21	5.92	32.43	23	223	65	96	0.36	0.2	6.383	0.139	0	0	1	44
PL.29972	PL.30096	C	6 A (CWC)	7.14Y	119.0	0.07	5.99	32.42	23	223	64	96	0.12	0.1	6.430	0.048	8	2	1	43
PL.29978	PL.29972	C	6 A (CWC)	7.13Y	118.9	0.14	6.14	31.22	22	214	62	96	0.23	0.1	6.533	0.103	14	4	2	42
PL.29979	PL.29978	C	6 A (CWC)	7.13Y	118.8	0.09	6.23	29.24	21	200	58	96	0.14	0.1	6.606	0.073	11	3	3	40
PL.29977	PL.29979	C	6 A (CWC)	7.12Y	118.7	0.05	6.28	27.31	20	187	54	96	0.07	0.0	6.645	0.039	0	0	0	36
PL.29980	PL.29977	C	6 A (CWC)	7.12Y	118.6	0.13	6.41	27.31	20	187	54	96	0.19	0.1	6.751	0.106	0	0	2	36
REG56	PL.29980	C	76.2 KVA	7.54Y	125.7	-7.07	-0.65	27.31	27	187	54	96	percent Boost= 0.00 Tap= 0.0							34
PL.29981	REG56	C	6 A (CWC)	7.53Y	125.6	0.07	-0.58	25.77	18	187	54	96	0.10	0.1	6.811	0.060	0	0	0	34
PL.29954	PL.29981	C	6 A (CWC)	7.53Y	125.5	0.11	-0.48	25.77	18	187	54	96	0.14	0.1	6.901	0.090	3	1	1	34
PL.29955	PL.29954	C	6 A (CWC)	7.53Y	125.4	0.05	-0.43	25.42	18	184	53	96	0.07	0.0	6.945	0.044	0	0	0	33
PL.29733	PL.29955	C	6 A (CWC)	7.52Y	125.3	0.11	-0.31	24.21	17	175	50	96	0.15	0.1	7.048	0.103	0	0	1	31
PL.29735	PL.29733	C	6 A (CWC)	7.51Y	125.2	0.10	-0.21	23.65	17	171	49	96	0.13	0.1	7.140	0.093	0	0	0	28
PL.30003	PL.29735	C	6 A (CWC)	7.51Y	125.2	0.05	-0.16	23.65	17	171	49	96	0.06	0.0	7.186	0.046	0	0	0	28
PL.30004	PL.30003	C	6 A (CWC)	7.51Y	125.1	0.06	-0.10	23.65	17	171	49	96	0.08	0.0	7.244	0.058	8	2	1	28
PL.29825	PL.30004	C	6 A (CWC)	7.50Y	125.0	0.08	-0.02	14.40	10	104	30	96	0.06	0.1	7.369	0.125	3	1	1	19
PL.30008	PL.29825	C	6 A (CWC)	7.50Y	125.0	0.01	-0.01	3.24	2	23	7	96	0.00	0.0	7.478	0.109	9	3	2	4
PL.30009	PL.30008	C	6 A (CWC)	7.50Y	125.0	0.00	-0.00	1.93	1	14	4	96	0.00	0.0	7.570	0.093	14	4	2	2
PL.30012	PL.29825	C	6 A (CWC)	7.50Y	125.0	0.02	-0.00	10.76	8	78	22	96	0.01	0.0	7.404	0.035	5	1	1	14
PL.30013	PL.30012	C	6 A (CWC)	7.50Y	125.0	0.03	0.03	10.07	7	73	21	96	0.02	0.0	7.482	0.079	8	2	1	13
PL.29754	PL.30013	C	#4 ACSR	7.50Y	125.0	0.01	0.05	6.93	5	50	14	96	0.01	0.0	7.530	0.047	0	0	0	9
PL.29756	PL.29754	C	#2 ACSR	7.50Y	125.0	0.00	0.05	0.00	0	0	0	100	0.00	0.0	7.553	0.023	0	0	0	0
PL.30067	PL.29754	C	#1/0 ACSR	7.50Y	125.0	0.00	0.05	0.93	0	7	2	96	0.00	0.0	7.558	0.028	0	0	0	2
PD.4134	PL.30067	C	15T	7.50Y	125.0	0.00	0.05	0.93	0	7	2	96	0.00	0.0	7.558	0.028	0	0	0	2

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.30068	PD.4134	C	#1/0 ACSR	7.50Y	125.0	0.00	0.05	0.93	0	7	2	96	0.00	0.0	7.657	0.099	7	2	2	2
PL.29755	PL.29754	C	#2 ACSR	7.50Y	125.0	0.00	0.05	1.78	1	13	4	96	0.00	0.0	7.587	0.057	13	4	1	1
PL.29826	PL.29754	C	#4 ACSR	7.50Y	124.9	0.02	0.07	4.23	3	30	9	96	0.00	0.0	7.644	0.114	4	1	1	6
PL.29998	PL.29826	C	#2 ACSR	7.50Y	124.9	0.00	0.07	2.67	2	19	6	95	0.00	0.0	7.684	0.039	10	3	1	3
PL.29999	PL.29998	C	#2 ACSR	7.50Y	124.9	0.00	0.07	1.35	1	10	3	96	0.00	0.0	7.731	0.048	9	3	1	2
PL.30000	PL.29999	C	#2 ACSR	7.50Y	124.9	0.00	0.07	0.11	0	1	0	100	0.00	0.0	7.801	0.070	1	0	1	1
PL.29757	PL.29826	C	#4 ACSR	7.50Y	124.9	0.00	0.07	1.00	1	7	2	96	0.00	0.0	7.717	0.073	7	2	2	2
PL.30001	PL.30013	C	#4 ACSR	7.50Y	125.0	0.00	0.03	2.06	2	15	4	97	0.00	0.0	7.501	0.019	15	4	2	3
PL.30002	PL.30001	C	#4 ACSR	7.50Y	125.0	0.00	0.03	0.00	0	0	0	100	0.00	0.0	7.626	0.124	0	0	1	1
PL.29753	PL.30004	C	6 A (CWC)	7.50Y	125.1	0.03	-0.07	8.12	6	59	17	96	0.01	0.0	7.327	0.083	0	0	0	8
PL.30005	PL.29753	C	#4 ACSR	7.50Y	125.1	0.02	-0.05	8.12	6	59	17	96	0.01	0.0	7.382	0.055	7	2	1	8
PL.30006	PL.30005	C	#4 ACSR	7.50Y	125.0	0.04	-0.01	7.12	5	51	15	96	0.02	0.0	7.511	0.130	1	0	1	7
PL.30007	PL.30006	C	#4 ACSR	7.50Y	125.0	0.01	0.00	6.93	5	50	14	96	0.00	0.0	7.551	0.040	6	2	1	6
PL.29758	PL.30007	C	#4 ACSR	7.50Y	125.0	0.00	0.00	1.46	1	10	3	96	0.00	0.0	7.634	0.082	10	3	1	1
PL.29824	PL.30007	C	#4 ACSR	7.50Y	125.0	0.02	0.02	4.65	4	34	10	96	0.00	0.0	7.631	0.080	3	1	1	4
PL.29785	PL.29824	C	#4 ACSR	7.50Y	125.0	0.00	0.02	0.00	0	0	0	100	0.00	0.0	7.679	0.048	0	0	0	0
PL.29883	PL.29824	C	#4 ACSR	7.50Y	125.0	0.02	0.04	4.30	3	31	9	96	0.00	0.0	7.730	0.099	0	0	0	3
PL.29786	PL.29883	C	#4 ACSR	7.50Y	125.0	0.01	0.04	1.20	1	9	2	98	0.00	0.0	7.857	0.126	0	0	0	1
PL.29863	PL.29786	C	#4 ACSR	7.50Y	125.0	0.00	0.05	1.20	1	9	2	98	0.00	0.0	7.998	0.141	9	2	1	1
PL.30010	PL.29883	C	#4 ACSR	7.50Y	125.0	0.01	0.05	3.10	2	22	6	96	0.00	0.0	7.838	0.107	16	4	1	2
PL.30011	PL.30010	C	#4 ACSR	7.50Y	125.0	0.00	0.05	0.94	1	7	2	96	0.00	0.0	7.922	0.085	7	2	1	1
PL.29787	PL.30011	C	#2 ACSR	7.50Y	125.0	0.00	0.05	0.00	0	0	0	100	0.00	0.0	7.997	0.075	0	0	0	0
PL.29868	PL.30011	C	#4 ACSR	7.50Y	125.0	0.00	0.05	0.00	0	0	0	100	0.00	0.0	7.926	0.003	0	0	0	0
PD.4146-A	PL.29868	C	Open	7.50Y	125.0	0.00	0.05	0.00	0	0	0	100	0.00	0.0	7.926	0.003	0	0	0	0
PL.29734	PL.29733	C	6 A (CWC)	7.52Y	125.3	0.00	-0.31	0.55	0	4	1	97	0.00	0.0	7.113	0.065	4	1	2	2
PL.29736	PL.29733	C	#4 ACSR	7.52Y	125.3	0.00	-0.31	0.00	0	0	0	100	0.00	0.0	7.083	0.035	0	0	0	0
PL.29823	PL.29955	C	6 A (CWC)	7.53Y	125.4	0.00	-0.42	1.21	1	9	3	95	0.00	0.0	6.983	0.038	9	3	2	2
PL.29731	PL.29979	C	6 A (CWC)	7.13Y	118.8	0.00	6.23	0.30	0	2	1	89	0.00	0.0	6.658	0.052	0	0	0	1
PL.29822	PL.29731	C	6 A (CWC)	7.13Y	118.8	0.00	6.23	0.00	0	0	0	100	0.00	0.0	6.735	0.077	0	0	0	0
PL.29732	PL.29731	C	#2 ACSR	7.13Y	118.8	0.00	6.23	0.30	0	2	1	89	0.00	0.0	6.706	0.048	2	1	1	1
PL.29730	PL.29979	C	#2 ACSR	7.13Y	118.8	0.00	6.23	0.00	0	0	0	100	0.00	0.0	6.638	0.032	0	0	0	0

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Balanced Voltage Drop Report
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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	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.30081	PL.29821	C	6 A (CWC)	7.16Y	119.3	0.00	5.71	0.97	1	7	2	96	0.00	0.0	6.245	0.005	0	0	0	1
PD.4141	PL.30081	C	30T	7.16Y	119.3	0.00	5.71	0.97	0	7	2	96	0.00	0.0	6.245	0.005	0	0	0	1
PL.30082	PD.4141	C	6 A (CWC)	7.16Y	119.3	0.00	5.72	0.97	1	7	2	96	0.00	0.0	6.297	0.052	7	2	1	1
PL.30051	PL.29862	C	#4 ACSR	7.16Y	119.3	0.00	5.65	0.52	0	4	1	97	0.00	0.0	6.135	0.005	0	0	0	2
PD.4126	PL.30051	C	30T	7.16Y	119.3	0.00	5.65	0.52	0	4	1	97	0.00	0.0	6.135	0.005	0	0	0	2
PL.30052	PD.4126	C	#4 ACSR	7.16Y	119.3	0.00	5.65	0.52	0	4	1	97	0.00	0.0	6.308	0.172	4	1	1	2
PL.29960	PL.30052	C	#4 ACSR	7.16Y	119.3	0.00	5.65	0.00	0	0	0	100	0.00	0.0	6.423	0.115	0	0	1	1
PL.30039	PL.29947	A	#4 ACSR	7.17Y	119.5	0.00	5.49	0.38	0	3	1	95	0.00	0.0	5.850	0.005	0	0	0	2
PD.4120	PL.30039	A	30T	7.17Y	119.5	0.00	5.49	0.38	0	3	1	95	0.00	0.0	5.850	0.005	0	0	0	2
PL.30040	PD.4120	A	#4 ACSR	7.17Y	119.5	0.00	5.49	0.38	0	3	1	95	0.00	0.0	5.894	0.044	3	1	1	2
PL.29728	PL.30040	A	#2 ACSR	7.17Y	119.5	0.00	5.49	0.00	0	0	0	100	0.00	0.0	5.943	0.048	0	0	1	1
PL.30035	PL.29813	A	#1/0 ACSR	7.21Y	120.1	0.00	4.85	0.18	0	1	0	100	0.00	0.0	4.881	0.004	0	0	0	1
PD.4118	PL.30035	A	65T	7.21Y	120.1	0.00	4.85	0.18	0	1	0	100	0.00	0.0	4.881	0.004	0	0	0	1
PL.30036	PD.4118	A	#1/0 ACSR	7.21Y	120.1	0.00	4.85	0.18	0	1	0	100	0.00	0.0	4.926	0.045	1	0	1	1
PL.29685	PL.29812	A	#1/0 ACSR	7.21Y	120.2	0.00	4.78	0.53	0	4	1	97	0.00	0.0	4.802	0.014	4	1	1	1
PL.30065	PL.29810	A	6 A (CWC)	7.24Y	120.7	0.00	4.28	0.21	0	1	0	100	0.00	0.0	4.184	0.005	0	0	0	3
PD.4133	PL.30065	A	65T	7.24Y	120.7	0.00	4.28	0.21	0	1	0	100	0.00	0.0	4.184	0.005	0	0	0	3
PL.30066	PD.4133	A	6 A (CWC)	7.24Y	120.7	0.00	4.28	0.21	0	1	0	100	0.00	0.0	4.242	0.058	1	0	3	3
PL.29718	PL.29852	ABC	#1/0 ACSR	7.28Y	121.3	0.00	3.74	1.27	1	27	8	96	0.00	0.0	3.585	0.019	0	0	0	5
PL.29784	PL.29718	A	6 A (CWC)	7.28Y	121.3	0.00	3.74	3.81	3	27	8	96	0.00	0.0	3.590	0.005	0	0	0	5
PD.4109	PL.29784	A	65T	7.28Y	121.3	0.00	3.74	3.81	0	27	8	96	0.00	0.0	3.590	0.005	0	0	0	5
PL.30016	PD.4109	A	6 A (CWC)	7.27Y	121.2	0.02	3.76	3.81	3	27	8	96	0.00	0.0	3.692	0.102	0	0	0	5
PL.29853	PL.30016	A	6 A (CWC)	7.27Y	121.2	0.02	3.78	3.81	3	27	8	96	0.00	0.0	3.784	0.091	0	0	0	5
PL.29808	PL.29853	A	6 A (CWC)	7.27Y	121.2	0.01	3.78	2.53	2	18	5	96	0.00	0.0	3.860	0.076	8	2	1	3
PL.29682	PL.29808	A	6 A (CWC)	7.27Y	121.2	0.01	3.79	1.46	1	10	3	96	0.00	0.0	4.004	0.144	0	0	0	2
PL.29855	PL.29682	A	6 A (CWC)	7.27Y	121.2	0.01	3.80	1.46	1	10	3	96	0.00	0.0	4.110	0.105	0	0	0	2
PL.29681	PL.29855	A	#4 ACSR	7.27Y	121.2	0.00	3.80	1.46	1	10	3	96	0.00	0.0	4.138	0.028	10	3	2	2
PL.29719	PL.29855	A	6 A (CWC)	7.27Y	121.2	0.00	3.80	0.00	0	0	0	100	0.00	0.0	4.269	0.159	0	0	0	0
PL.29856	PL.29719	A	6 A (CWC)	7.27Y	121.2	0.00	3.80	0.00	0	0	0	100	0.00	0.0	4.421	0.152	0	0	0	0
PL.29914	PL.29853	A	6 A (CWC)	7.27Y	121.2	0.01	3.78	1.28	1	9	3	95	0.00	0.0	3.905	0.121	0	0	0	2
PL.29915	PL.29914	A	6 A (CWC)	7.27Y	121.2	0.00	3.79	1.28	1	9	3	95	0.00	0.0	3.959	0.053	2	1	1	2

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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	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.29911	PL.29915	A	6 A (CWC)	7.27Y	121.2	0.00	3.79	0.93	1	7	2	96	0.00	0.0	4.058	0.099	0	0	0	1
PL.29854	PL.29911	A	6 A (CWC)	7.27Y	121.2	0.00	3.79	0.93	1	7	2	96	0.00	0.0	4.155	0.097	7	2	1	1
PL.29683	PL.29854	A	#2 ACSR	7.27Y	121.2	0.00	3.79	0.00	0	0	0	100	0.00	0.0	4.209	0.054	0	0	0	0
PL.29778	PL.29802	A	#1/0 ACSR	7.31Y	121.8	0.00	3.20	1.51	1	11	3	96	0.00	0.0	2.985	0.004	0	0	0	2
PD.4106	PL.29778	A	65T	7.31Y	121.8	0.00	3.20	1.51	0	11	3	96	0.00	0.0	2.985	0.004	0	0	0	2
PL.29779	PD.4106	A	#1/0 ACSR	7.31Y	121.8	0.00	3.20	1.51	1	11	3	96	0.00	0.0	3.042	0.057	11	3	2	2
PL.29908	PL.29702	A	6 A (CWC)	7.31Y	121.9	0.08	3.11	13.74	10	97	28	96	0.05	0.1	2.934	0.124	4	1	1	19
PL.29782	PL.29908	A	6 A (CWC)	7.31Y	121.9	0.00	3.11	13.10	9	92	26	96	0.00	0.0	2.938	0.005	0	0	0	18
PD.4108	PL.29782	A	65T	7.31Y	121.9	0.00	3.11	13.10	0	92	26	96	0.00	0.0	2.938	0.005	0	0	0	18
PL.29783	PD.4108	A	6 A (CWC)	7.31Y	121.8	0.05	3.16	13.10	9	92	26	96	0.03	0.0	3.030	0.092	13	4	1	18
PL.29909	PL.29783	A	6 A (CWC)	7.31Y	121.8	0.03	3.19	11.21	8	79	23	96	0.02	0.0	3.081	0.051	0	0	1	17
PL.29910	PL.29909	A	6 A (CWC)	7.31Y	121.8	0.04	3.23	11.15	8	78	23	96	0.02	0.0	3.156	0.074	0	0	0	16
PL.29706	PL.29910	A	#4 ACSR	7.31Y	121.8	0.00	3.23	1.58	1	11	3	96	0.00	0.0	3.205	0.050	11	3	1	1
PL.29707	PL.29910	A	#4 ACSR	7.31Y	121.8	0.00	3.23	0.02	0	0	0	100	0.00	0.0	3.342	0.186	0	0	1	1
PL.29803	PL.29910	A	6 A (CWC)	7.30Y	121.7	0.05	3.28	9.55	7	67	19	96	0.03	0.0	3.274	0.118	0	0	0	14
PL.29846	PL.29803	A	6 A (CWC)	7.30Y	121.7	0.04	3.32	9.55	7	67	19	96	0.02	0.0	3.368	0.093	1	0	1	14
PL.29708	PL.29846	A	#4 ACSR	7.30Y	121.7	0.01	3.33	1.38	1	10	3	96	0.00	0.0	3.549	0.182	10	3	1	1
PL.29804	PL.29846	A	6 A (CWC)	7.30Y	121.6	0.07	3.38	8.03	6	56	16	96	0.03	0.0	3.544	0.176	0	0	0	12
PL.29847	PL.29804	A	6 A (CWC)	7.30Y	121.6	0.03	3.41	8.03	6	56	16	96	0.01	0.0	3.618	0.074	0	0	0	12
PL.29870	PL.29847	A	6 A (CWC)	7.29Y	121.5	0.05	3.46	8.03	6	56	16	96	0.02	0.0	3.741	0.122	0	0	0	12
PL.29805	PL.29870	A	6 A (CWC)	7.29Y	121.5	0.04	3.50	6.94	5	49	14	96	0.01	0.0	3.862	0.122	0	0	0	11
PL.29848	PL.29805	A	6 A (CWC)	7.29Y	121.5	0.03	3.53	6.94	5	49	14	96	0.01	0.0	3.957	0.095	0	0	0	11
PL.29886	PL.29848	A	6 A (CWC)	7.29Y	121.4	0.05	3.58	6.94	5	49	14	96	0.02	0.0	4.114	0.157	0	0	0	11
PL.29710	PL.29886	A	6 A (CWC)	7.29Y	121.4	0.00	3.58	0.41	0	3	1	95	0.00	0.0	4.135	0.020	3	1	1	1
PL.30029	PL.29886	A	6 A (CWC)	7.28Y	121.4	0.03	3.61	6.53	5	46	13	96	0.01	0.0	4.224	0.110	0	0	0	10
PL.30030	PL.30029	A	6 A (CWC)	7.28Y	121.4	0.00	3.61	6.53	5	46	13	96	0.00	0.0	4.229	0.004	0	0	0	10
PL.29921	PL.30030	A	6 A (CWC)	7.28Y	121.4	0.02	3.63	6.53	5	46	13	96	0.01	0.0	4.293	0.064	0	0	1	9
PL.29922	PL.29921	A	6 A (CWC)	7.28Y	121.3	0.03	3.66	6.53	5	46	13	96	0.01	0.0	4.393	0.100	9	3	1	8
PL.29916	PL.29922	A	6 A (CWC)	7.28Y	121.3	0.03	3.69	5.22	4	37	10	97	0.01	0.0	4.537	0.144	0	0	0	7
PL.29711	PL.29916	A	6 A (CWC)	7.28Y	121.3	0.02	3.71	4.72	3	33	9	96	0.01	0.0	4.629	0.093	0	0	0	6
PL.29849	PL.29711	A	6 A (CWC)	7.28Y	121.3	0.03	3.74	4.72	3	33	9	96	0.01	0.0	4.786	0.156	0	0	0	6

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

Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.29850	PL.29849	A	6 A (CWC)	7.27Y	121.2	0.03	3.77	4.72	3	33	9	96	0.01	0.0	4.914	0.128	0	0	0	6
PL.29919	PL.29850	A	6 A (CWC)	7.27Y	121.2	0.01	3.79	4.57	3	32	9	96	0.00	0.0	5.003	0.090	13	4	1	4
PL.29920	PL.29919	A	6 A (CWC)	7.27Y	121.2	0.01	3.80	2.70	2	19	5	97	0.00	0.0	5.094	0.090	0	0	0	3
PL.29713	PL.29920	A	6 A (CWC)	7.27Y	121.2	0.00	3.80	0.98	1	7	2	96	0.00	0.0	5.167	0.073	7	2	1	1
PL.29958	PL.29920	A	6 A (CWC)	7.27Y	121.2	0.01	3.81	1.71	1	12	3	97	0.00	0.0	5.260	0.167	0	0	0	2
PL.29959	PL.29958	A	6 A (CWC)	7.27Y	121.2	0.01	3.82	1.71	1	12	3	97	0.00	0.0	5.373	0.113	3	1	1	2
PL.29956	PL.29959	A	#4 ACSR	7.27Y	121.2	0.00	3.82	0.00	0	0	0	100	0.00	0.0	5.559	0.186	0	0	0	0
PL.29957	PL.29956	A	#4 ACSR	7.27Y	121.2	0.00	3.82	0.00	0	0	0	100	0.00	0.0	5.709	0.150	0	0	0	0
PL.29714	PL.29959	A	#4 ACSR	7.27Y	121.2	0.00	3.82	1.23	1	9	2	98	0.00	0.0	5.488	0.115	9	2	1	1
PL.29917	PL.29850	A	6 A (CWC)	7.27Y	121.2	0.00	3.77	0.15	0	1	0	100	0.00	0.0	5.101	0.187	0	0	1	2
PL.29918	PL.29917	A	6 A (CWC)	7.27Y	121.2	0.00	3.77	0.15	0	1	0	100	0.00	0.0	5.151	0.050	1	0	1	1
PL.29712	PL.29916	A	6 A (CWC)	7.28Y	121.3	0.00	3.69	0.50	0	4	1	97	0.00	0.0	4.700	0.163	0	0	0	1
PL.29716	PL.29712	A	#1/0 ACSR	7.28Y	121.3	0.00	3.70	0.50	0	4	1	97	0.00	0.0	4.820	0.120	4	1	1	1
PL.30027	PL.30030	A	#1/0 ACSR	7.28Y	121.4	0.00	3.61	0.00	0	0	0	100	0.00	0.0	4.233	0.005	0	0	0	1
PD.4115	PL.30027	A	40T	7.28Y	121.4	0.00	3.61	0.00	0	0	0	100	0.00	0.0	4.233	0.005	0	0	0	1
PL.30028	PD.4115	A	#1/0 ACSR	7.28Y	121.4	0.00	3.61	0.00	0	0	0	100	0.00	0.0	4.273	0.039	0	0	1	1
PL.29709	PL.29870	A	#4 ACSR	7.29Y	121.5	0.00	3.46	1.09	1	8	2	97	0.00	0.0	3.902	0.161	8	2	1	1
PL.29780	PL.29800	C	#1/0 ACSR	7.33Y	122.1	0.00	2.88	1.92	1	14	4	96	0.00	0.0	2.671	0.005	0	0	0	2
PD.4107	PL.29780	C	65T	7.33Y	122.1	0.00	2.88	1.92	0	14	4	96	0.00	0.0	2.671	0.005	0	0	0	2
PL.29781	PD.4107	C	#1/0 ACSR	7.33Y	122.1	0.00	2.89	1.92	1	14	4	96	0.00	0.0	2.705	0.034	14	4	2	2
PL.30073	PL.29800	A	#1/0 ACSR	7.33Y	122.1	0.00	2.88	1.74	1	12	4	95	0.00	0.0	2.671	0.005	0	0	0	1
PD.4137	PL.30073	A	65T	7.33Y	122.1	0.00	2.88	1.74	0	12	4	95	0.00	0.0	2.671	0.005	0	0	0	1
PL.30074	PD.4137	A	#1/0 ACSR	7.33Y	122.1	0.00	2.89	1.74	1	12	4	95	0.00	0.0	2.774	0.103	12	4	1	1
PL.29776	PL.29798	C	#1/0 ACSR	7.33Y	122.2	0.00	2.76	1.27	1	9	3	95	0.00	0.0	2.555	0.004	0	0	0	1
PD.4104	PL.29776	C	65T	7.33Y	122.2	0.00	2.76	1.27	0	9	3	95	0.00	0.0	2.555	0.004	0	0	0	1
PL.29777	PD.4104	C	#1/0 ACSR	7.33Y	122.2	0.00	2.76	1.27	1	9	3	95	0.00	0.0	2.595	0.040	9	3	1	1
PL.29774	PL.29796	A	6 A (CWC)	7.35Y	122.4	0.00	2.57	0.00	0	0	0	100	0.00	0.0	2.373	0.005	0	0	0	1
PD.4103	PL.29774	A	65T	7.35Y	122.4	0.00	2.57	0.00	0	0	0	100	0.00	0.0	2.373	0.005	0	0	0	1
PL.29775	PD.4103	A	6 A (CWC)	7.35Y	122.4	0.00	2.57	0.00	0	0	0	100	0.00	0.0	2.432	0.058	0	0	1	1
PL.29699	PL.29794	C	#1/0 ACSR	7.36Y	122.7	0.00	2.31	1.18	1	8	2	97	0.00	0.0	2.153	0.016	8	2	1	1
PL.30025	PL.29845	C	#1/0 ACSR	7.37Y	122.8	0.00	2.15	2.42	1	17	5	96	0.00	0.0	1.994	0.005	0	0	0	4

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.4114	PL.30025	C	65T	7.37Y	122.8	0.00	2.15	2.42	0	17	5	96	0.00	0.0	1.994	0.005	0	0	0	4
PL.30026	PD.4114	C	#1/0 ACSR	7.37Y	122.8	0.00	2.15	2.42	1	17	5	96	0.00	0.0	2.066	0.072	11	3	1	4
PL.29901	PL.30026	C	#1/0 ACSR	7.37Y	122.8	0.00	2.16	0.80	0	6	2	95	0.00	0.0	2.198	0.132	0	0	0	3
PL.29698	PL.29901	C	#1/0 ACSR	7.37Y	122.8	0.00	2.16	0.00	0	0	0	100	0.00	0.0	2.277	0.080	0	0	1	1
PL.29793	PL.29901	C	#1/0 ACSR	7.37Y	122.8	0.00	2.16	0.80	0	6	2	95	0.00	0.0	2.378	0.180	6	2	2	2
PL.29768	PL.29789	A	6 A (CWC)	7.40Y	123.4	0.00	1.65	0.61	0	4	1	97	0.00	0.0	1.544	0.005	0	0	0	2
PD.4100	PL.29768	A	65T	7.40Y	123.4	0.00	1.65	0.61	0	4	1	97	0.00	0.0	1.544	0.005	0	0	0	2
PL.29769	PD.4100	A	6 A (CWC)	7.40Y	123.4	0.00	1.65	0.61	0	4	1	97	0.00	0.0	1.551	0.008	0	0	0	2
PL.29697	PL.29769	A	6 A (CWC)	7.40Y	123.4	0.00	1.65	0.45	0	3	1	95	0.00	0.0	1.638	0.086	3	1	1	1
PL.29791	PL.29769	A	6 A (CWC)	7.40Y	123.4	0.00	1.65	0.16	0	1	0	100	0.00	0.0	1.682	0.130	0	0	0	1
PL.29899	PL.29791	A	6 A (CWC)	7.40Y	123.4	0.00	1.65	0.16	0	1	0	100	0.00	0.0	1.761	0.080	1	0	1	1
PL.29900	PL.29899	A	6 A (CWC)	7.40Y	123.4	0.00	1.65	0.00	0	0	0	100	0.00	0.0	1.855	0.094	0	0	0	0
PL.29762	PL.29871	A	#1/0 ACSR	7.43Y	123.9	0.00	1.12	1.06	0	8	2	97	0.00	0.0	1.080	0.005	0	0	0	1
PD.4097	PL.29762	A	65T	7.43Y	123.9	0.00	1.12	1.06	0	8	2	97	0.00	0.0	1.080	0.005	0	0	0	1
PL.29763	PD.4097	A	#1/0 ACSR	7.43Y	123.9	0.00	1.12	1.06	0	8	2	97	0.00	0.0	1.093	0.013	8	2	1	1
PL.31444	Greenhall	ABC	636 SPACER	7.50Y	125.0	0.00	0.00	120.24	22	2558	882	95	0.01	0.0	0.009	0.009	0	0	0	566
PL.32688	PL.31444	ABC	636 SPACER	7.50Y	125.0	0.00	0.01	120.24	22	2558	882	95	0.00	0.0	0.013	0.003	0	0	0	566
---------- Feeder No. 3 (New Zion F3) Beginning with Device PD.5288 ----------																				
PD.5288	PL.32688	ABC	480VWE	7.50Y	125.0	0.00	0.01	120.24	0	2558	881	95	0.00	0.0	0.013	0.003	0	0	0	566
PL.32689	PD.5288	ABC	636 SPACER	7.50Y	125.0	0.00	0.01	120.24	22	2558	881	95	0.01	0.0	0.019	0.006	0	0	0	566
PL.31938	PL.32689	ABC	636 SPACER	7.50Y	124.9	0.06	0.07	120.24	22	2558	881	95	0.17	0.0	0.144	0.126	0	0	0	566
PL.30500	PL.31938	ABC	#1/0 ACSR	7.48Y	124.6	0.29	0.36	120.24	52	2558	878	95	5.02	0.2	0.275	0.130	0	0	0	566
PL.31359	PL.30500	ABC	#1/0 ACSR	7.46Y	124.4	0.27	0.63	120.24	52	2553	873	95	4.69	0.2	0.396	0.122	0	0	0	566
PL.30501	PL.31359	ABC	#1/0 ACSR	7.45Y	124.2	0.19	0.82	120.24	52	2548	869	95	3.32	0.1	0.483	0.086	0	0	0	566
PL.31360	PL.30501	ABC	#1/0 ACSR	7.43Y	123.9	0.27	1.09	120.24	52	2545	866	95	4.59	0.2	0.602	0.119	0	0	0	566
PL.31851	PL.31360	ABC	#1/0 ACSR	7.42Y	123.7	0.20	1.29	115.68	50	2442	833	95	3.37	0.1	0.696	0.095	1	0	1	532
PL.31852	PL.31851	ABC	#1/0 ACSR	7.41Y	123.6	0.13	1.42	115.61	50	2437	829	95	2.18	0.1	0.758	0.061	7	2	1	531
PL.31071	PL.31852	ABC	#1/0 ACSR	7.40Y	123.4	0.22	1.64	115.28	50	2428	825	95	3.62	0.1	0.860	0.102	0	0	0	530
PL.31450	PL.31071	ABC	#1/0 ACSR	7.39Y	123.2	0.20	1.84	115.28	50	2424	822	95	3.24	0.1	0.951	0.091	0	0	0	530

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31072	PL.31450	ABC	#1/0 ACSR	7.38Y	123.1	0.10	1.93	115.20	50	2419	818	95	1.60	0.1	0.997	0.045	0	0	0	524
PL.31317	PL.31072	ABC	#1/0 ACSR	7.37Y	122.9	0.20	2.13	113.48	49	2381	806	95	3.28	0.1	1.092	0.096	0	0	0	515
PL.31453	PL.31317	ABC	#1/0 ACSR	7.36Y	122.7	0.21	2.35	113.48	49	2378	803	95	3.45	0.1	1.193	0.101	0	0	0	515
PL.31074	PL.31453	ABC	#1/0 ACSR	7.35Y	122.5	0.18	2.53	113.48	49	2374	800	95	2.96	0.1	1.279	0.086	0	0	0	515
PL.31454	PL.31074	ABC	#1/0 ACSR	7.34Y	122.3	0.16	2.69	113.48	49	2371	797	95	2.62	0.1	1.356	0.076	0	0	0	515
PL.31455	PL.31454	ABC	#1/0 ACSR	7.33Y	122.1	0.19	2.88	113.48	49	2369	794	95	3.15	0.1	1.448	0.092	0	0	0	515
PL.31456	PL.31455	ABC	#1/0 ACSR	7.31Y	121.9	0.27	3.15	113.48	49	2366	791	95	4.34	0.2	1.574	0.126	0	0	0	515
PL.31079	PL.31456	ABC	#1/0 ACSR	7.30Y	121.6	0.21	3.35	113.48	49	2361	787	95	3.38	0.1	1.673	0.099	0	0	0	515
PL.32113	PL.31079	A	#2 ACSR	7.30Y	121.6	0.00	3.35	0.18	0	1	0	100	0.00	0.0	1.677	0.005	0	0	0	1
PD.4362	PL.32113	A	65T	7.30Y	121.6	0.00	3.35	0.18	0	1	0	100	0.00	0.0	1.677	0.005	0	0	0	1
PL.32114	PD.4362	A	#2 ACSR	7.30Y	121.6	0.00	3.35	0.18	0	1	0	100	0.00	0.0	1.726	0.049	1	0	1	1
PL.31853	PL.32114	A	#2 ACSR	7.30Y	121.6	0.00	3.35	0.00	0	0	0	100	0.00	0.0	1.831	0.105	0	0	0	0
PL.31736	PL.31079	ABC	#1/0 ACSR	7.28Y	121.3	0.32	3.67	113.42	49	2357	784	95	5.22	0.2	1.825	0.152	0	0	0	514
PL.31737	PL.31736	ABC	#1/0 ACSR	7.27Y	121.2	0.15	3.83	112.94	49	2341	776	95	2.46	0.1	1.897	0.072	0	0	1	513
PL.32117	PL.31737	A	#2 ACSR	7.27Y	121.2	0.00	3.83	0.97	1	7	2	96	0.00	0.0	1.902	0.005	0	0	0	3
PD.4364	PL.32117	A	65T	7.27Y	121.2	0.00	3.83	0.97	0	7	2	96	0.00	0.0	1.902	0.005	0	0	0	3
PL.32118	PD.4364	A	#2 ACSR	7.27Y	121.2	0.00	3.83	0.97	1	7	2	96	0.00	0.0	1.952	0.050	0	0	0	3
PL.31457	PL.32118	A	#4 ACSR	7.27Y	121.2	0.00	3.83	0.97	1	7	2	96	0.00	0.0	2.030	0.078	0	0	0	3
PL.31081	PL.31457	A	#4 ACSR	7.27Y	121.2	0.00	3.83	0.97	1	7	2	96	0.00	0.0	2.150	0.121	7	2	1	3
PL.31765	PL.31081	A	#4 ACSR	7.27Y	121.2	0.00	3.83	0.03	0	0	0	100	0.00	0.0	2.328	0.178	0	0	1	2
PL.31766	PL.31765	A	#4 ACSR	7.27Y	121.2	0.00	3.83	0.01	0	0	0	100	0.00	0.0	2.439	0.111	0	0	1	1
PL.31309	PL.31737	ABC	#1/0 ACSR	7.25Y	120.8	0.38	4.20	112.62	49	2332	771	95	6.09	0.3	2.077	0.180	0	0	0	509
PL.31080	PL.31309	ABC	#1/0 ACSR	7.23Y	120.5	0.26	4.46	112.62	49	2326	766	95	4.20	0.2	2.202	0.124	0	0	0	509
PL.31767	PL.31080	ABC	#1/0 ACSR	7.22Y	120.4	0.16	4.62	112.62	49	2322	762	95	2.67	0.1	2.281	0.079	0	0	0	509
PL.31768	PL.31767	ABC	#1/0 ACSR	7.21Y	120.2	0.15	4.77	112.62	49	2319	759	95	2.37	0.1	2.351	0.070	0	0	0	509
PL.32119	PL.31768	A	#1/0 ACSR	7.21Y	120.2	0.00	4.77	0.98	0	7	2	96	0.00	0.0	2.356	0.005	0	0	0	1
PD.4365	PL.32119	A	65T	7.21Y	120.2	0.00	4.77	0.98	0	7	2	96	0.00	0.0	2.356	0.005	0	0	0	1
PL.32120	PD.4365	A	#1/0 ACSR	7.21Y	120.2	0.00	4.77	0.98	0	7	2	96	0.00	0.0	2.406	0.051	7	2	1	1
PL.31854	PL.31768	ABC	#1/0 ACSR	7.20Y	120.0	0.23	5.00	112.29	49	2310	755	95	3.68	0.2	2.460	0.109	0	0	0	508
PL.31855	PL.31854	ABC	#1/0 ACSR	7.18Y	119.7	0.26	5.26	112.29	49	2306	751	95	4.24	0.2	2.586	0.126	0	0	0	508
PL.31458	PL.31855	ABC	#1/0 ACSR	7.17Y	119.5	0.20	5.46	112.29	49	2302	747	95	3.30	0.1	2.685	0.098	0	0	0	508

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31459	PL.31458	ABC	#1/0 ACSR	7.15Y	119.2	0.31	5.78	112.29	49	2299	744	95	5.11	0.2	2.837	0.152	0	0	0	508
PL.31460	PL.31459	ABC	#1/0 ACSR	7.15Y	119.1	0.13	5.90	112.29	49	2294	739	95	2.04	0.1	2.897	0.061	0	0	0	508
PL.31308	PL.31460	ABC	#1/0 ACSR	7.14Y	118.9	0.16	6.06	112.29	49	2292	737	95	2.61	0.1	2.975	0.078	0	0	0	508
PL.31307	PL.31308	ABC	#1/0 ACSR	7.13Y	118.9	0.08	6.14	111.61	49	2275	731	95	1.29	0.1	3.014	0.039	0	0	0	506
PL.31082	PL.31307	ABC	#1/0 ACSR	7.13Y	118.8	0.10	6.24	111.61	49	2274	729	95	1.63	0.1	3.063	0.049	0	0	0	506
PL.32125	PL.31082	A	#2 ACSR	7.13Y	118.8	0.00	6.24	1.14	1	8	2	97	0.00	0.0	3.068	0.005	0	0	0	3
PD.4368	PL.32125	A	65T	7.13Y	118.8	0.00	6.24	1.14	0	8	2	97	0.00	0.0	3.068	0.005	0	0	0	3
PL.32126	PD.4368	A	#2 ACSR	7.13Y	118.8	0.00	6.24	1.14	1	8	2	97	0.00	0.0	3.084	0.017	8	2	1	3
PL.31770	PL.32126	A	#2 ACSR	7.13Y	118.8	0.00	6.24	0.01	0	0	0	100	0.00	0.0	3.119	0.034	0	0	1	2
PL.31083	PL.31770	A	#2 ACSR	7.13Y	118.8	0.00	6.24	0.01	0	0	0	100	0.00	0.0	3.197	0.078	0	0	1	1
PL.31306	PL.31082	ABC	#1/0 ACSR	7.12Y	118.7	0.08	6.33	111.23	48	2264	726	95	1.32	0.1	3.103	0.040	0	0	0	503
PL.32130	PL.31306	C	#2 ACSR	7.12Y	118.7	0.00	6.33	0.69	0	5	1	98	0.00	0.0	3.108	0.005	0	0	0	1
PD.4370	PL.32130	C	65T	7.12Y	118.7	0.00	6.33	0.69	0	5	1	98	0.00	0.0	3.108	0.005	0	0	0	1
PL.32129	PD.4370	C	#2 ACSR	7.12Y	118.7	0.00	6.33	0.69	0	5	1	98	0.00	0.0	3.273	0.166	5	1	1	1
PL.32127	PL.31306	A	#2 ACSR	7.12Y	118.7	0.00	6.33	1.15	1	8	2	97	0.00	0.0	3.108	0.005	0	0	0	1
PD.4369	PL.32127	A	65T	7.12Y	118.7	0.00	6.33	1.15	0	8	2	97	0.00	0.0	3.108	0.005	0	0	0	1
PL.32128	PD.4369	A	#2 ACSR	7.12Y	118.7	0.00	6.33	1.15	1	8	2	97	0.00	0.0	3.155	0.048	8	2	1	1
PL.31743	PL.31306	ABC	#1/0 ACSR	7.12Y	118.6	0.09	6.42	110.62	48	2250	721	95	1.46	0.1	3.148	0.045	0	0	0	501
PL.31953	PL.31743	C	#1/0 ACSR	7.12Y	118.6	0.00	6.42	1.32	1	9	3	95	0.00	0.0	3.152	0.005	0	0	0	1
PD.4278	PL.31953	C	65T	7.12Y	118.6	0.00	6.42	1.32	0	9	3	95	0.00	0.0	3.152	0.005	0	0	0	1
PL.31954	PD.4278	C	#1/0 ACSR	7.12Y	118.6	0.00	6.42	1.32	1	9	3	95	0.00	0.0	3.156	0.004	9	3	1	1
PL.31744	PL.31743	ABC	#1/0 ACSR	7.10Y	118.4	0.22	6.64	110.18	48	2240	717	95	3.54	0.2	3.258	0.110	5	2	1	500
PL.31598	PL.31744	ABC	#1/0 ACSR	7.09Y	118.2	0.20	6.84	109.92	48	2231	712	95	3.23	0.1	3.358	0.100	0	0	0	499
REG57	PL.31598	ABC	167Kkva	7.51Y	125.2	-7.04	-0.20	109.92	50	2228	709	95	percent Boost= 5.62 Tap= 9.0							499
PL.31599	REG57	ABC	#1/0 ACSR	7.51Y	125.1	0.07	-0.13	103.73	45	2228	709	95	1.06	0.0	3.395	0.037	0	0	0	499
PL.32131	PL.31599	A	#4 ACSR	7.51Y	125.1	0.00	-0.13	1.69	1	12	3	97	0.00	0.0	3.400	0.005	0	0	0	2
PD.4371	PL.32131	A	65T	7.51Y	125.1	0.00	-0.13	1.69	0	12	3	97	0.00	0.0	3.400	0.005	0	0	0	2
PL.32132	PD.4371	A	#4 ACSR	7.51Y	125.1	0.01	-0.12	1.69	1	12	3	97	0.00	0.0	3.515	0.116	0	0	0	2
PL.31934	PL.32132	A	#4 ACSR	7.51Y	125.1	0.01	-0.12	1.69	1	12	3	97	0.00	0.0	3.667	0.151	11	3	1	2
PL.31935	PL.31934	A	#4 ACSR	7.51Y	125.1	0.00	-0.11	0.14	0	1	0	100	0.00	0.0	3.771	0.105	1	0	1	1
PL.32133	PL.31599	C	#2 ACSR	7.51Y	125.1	0.00	-0.13	0.41	0	3	1	95	0.00	0.0	3.399	0.005	0	0	0	2

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.4372	PL.32133	C	65T	7.51Y	125.1	0.00	-0.13	0.41	0	3	1	95	0.00	0.0	3.399	0.005	0	0	0	2
PL.32134	PD.4372	C	#2 ACSR	7.51Y	125.1	0.00	-0.13	0.41	0	3	1	95	0.00	0.0	3.557	0.158	3	1	2	2
PL.31856	PL.31599	ABC	#1/0 ACSR	7.49Y	124.8	0.33	0.20	103.04	45	2212	703	95	4.95	0.2	3.570	0.175	0	0	0	495
PL.31857	PL.31856	ABC	#1/0 ACSR	7.48Y	124.7	0.13	0.33	103.04	45	2207	699	95	1.91	0.1	3.637	0.067	0	0	0	495
PL.31084	PL.31857	ABC	#1/0 ACSR	7.47Y	124.6	0.11	0.44	103.04	45	2205	697	95	1.60	0.1	3.694	0.057	0	0	0	495
PL.31305	PL.31084	ABC	#1/0 ACSR	7.47Y	124.5	0.05	0.48	103.04	45	2203	695	95	0.70	0.0	3.719	0.025	0	0	0	495
PL.31085	PL.31305	ABC	#1/0 ACSR	7.47Y	124.5	0.00	0.49	103.04	45	2202	695	95	0.04	0.0	3.720	0.001	0	0	0	495
PL.31600	PL.31085	ABC	#1/0 ACSR	7.46Y	124.3	0.21	0.70	103.04	45	2202	695	95	3.19	0.1	3.833	0.113	3	1	4	495
PL.31601	PL.31600	ABC	#1/0 ACSR	7.45Y	124.1	0.20	0.90	102.91	45	2197	691	95	3.02	0.1	3.940	0.107	0	0	0	491
PL.31461	PL.31601	ABC	#1/0 ACSR	7.43Y	123.9	0.23	1.13	102.91	45	2193	688	95	3.41	0.2	4.061	0.121	0	0	0	491
PL.31304	PL.31461	ABC	#1/0 ACSR	7.42Y	123.6	0.26	1.39	102.82	45	2188	684	95	3.89	0.2	4.200	0.139	7	2	1	490
PL.32039	PL.31304	C	#2 ACSR	7.42Y	123.6	0.00	1.39	3.90	2	28	8	96	0.00	0.0	4.204	0.004	0	0	0	3
PD.4325	PL.32039	C	65T	7.42Y	123.6	0.00	1.39	3.90	0	28	8	96	0.00	0.0	4.204	0.004	0	0	0	3
PL.32040	PD.4325	C	#2 ACSR	7.42Y	123.6	0.00	1.40	3.90	2	28	8	96	0.00	0.0	4.242	0.038	8	2	1	3
PL.31086	PL.32040	C	#2 ACSR	7.42Y	123.6	0.00	1.40	0.63	0	5	1	98	0.00	0.0	4.307	0.065	5	1	1	1
PL.31087	PL.32040	C	6 A (CWC)	7.42Y	123.6	0.01	1.41	2.08	1	15	4	97	0.00	0.0	4.362	0.120	0	0	0	1
PL.31462	PL.31087	C	6 A (CWC)	7.42Y	123.6	0.00	1.41	2.08	1	15	4	97	0.00	0.0	4.456	0.094	15	4	1	1
PL.31088	PL.31462	C	#4 ACSR	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	4.523	0.067	0	0	0	0
PD.4146-B	PL.31088	C	Open	7.42Y	123.6	0.00	1.41	0.00	0	0	0	100	0.00	0.0	4.523	0.067	0	0	0	0
PL.31303	PL.31304	ABC	#1/0 ACSR	7.41Y	123.4	0.19	1.58	101.18	44	2149	670	95	2.77	0.1	4.301	0.101	0	0	0	486
PL.31463	PL.31303	ABC	#1/0 ACSR	7.39Y	123.2	0.25	1.83	101.18	44	2146	668	95	3.66	0.2	4.435	0.134	0	0	0	486
PL.31302	PL.31463	ABC	#1/0 ACSR	7.38Y	123.0	0.15	1.98	100.58	44	2130	661	96	2.15	0.1	4.515	0.080	0	0	0	485
PL.31089	PL.31302	ABC	#1/0 ACSR	7.38Y	123.0	0.04	2.02	100.58	44	2128	659	96	0.59	0.0	4.537	0.022	0	0	0	485
PL.32165	PL.31089	ABC	#1/0 ACSR	7.37Y	122.8	0.14	2.15	100.58	44	2127	658	96	2.02	0.1	4.612	0.075	0	0	0	485
PD.4389-A	PL.32165	ABC	Closed	7.37Y	122.8	0.00	2.15	100.58	0	2125	656	96	0.00	0.0	4.612	0.075	0	0	0	485
PD.4389-B	PD.4389-A	ABC	Closed	7.37Y	122.8	0.00	2.15	100.58	0	2125	656	96	0.00	0.0	4.612	0.075	0	0	0	485
PL.32166	PD.4389-B	ABC	#1/0 ACSR	7.37Y	122.8	0.01	2.16	100.58	44	2125	656	96	0.12	0.0	4.617	0.005	0	0	0	485
PL.32169	PL.32166	ABC	#3/0 ACSR	7.37Y	122.8	0.00	2.16	13.57	5	288	85	96	0.00	0.0	4.621	0.005	0	0	0	77
PD.4391-A	PL.32169	ABC	Closed	7.37Y	122.8	0.00	2.16	13.57	0	288	85	96	0.00	0.0	4.621	0.005	0	0	0	77
PD.4391-B	PD.4391-A	ABC	Closed	7.37Y	122.8	0.00	2.16	13.57	0	288	85	96	0.00	0.0	4.621	0.005	0	0	0	77
PL.32170	PD.4391-B	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.17	13.57	5	288	85	96	0.02	0.0	4.674	0.053	7	2	2	77

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31618	PL.32170	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.18	13.26	4	281	83	96	0.01	0.0	4.716	0.042	5	1	1	75
PL.31619	PL.31618	ABC	#3/0 ACSR	7.37Y	122.8	0.02	2.20	13.02	4	276	82	96	0.04	0.0	4.856	0.141	9	2	1	74
PL.32061	PL.31619	C	#4 ACSR	7.37Y	122.8	0.00	2.20	2.36	2	17	5	96	0.00	0.0	4.861	0.005	0	0	0	2
PD.4335	PL.32061	C	65T	7.37Y	122.8	0.00	2.20	2.36	0	17	5	96	0.00	0.0	4.861	0.005	0	0	0	2
PL.32062	PD.4335	C	#4 ACSR	7.37Y	122.8	0.01	2.21	2.36	2	17	5	96	0.00	0.0	4.925	0.064	7	2	1	2
PL.31090	PL.32062	C	#4 ACSR	7.37Y	122.8	0.00	2.21	1.38	1	10	3	96	0.00	0.0	5.025	0.099	10	3	1	1
PL.31301	PL.31619	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.21	11.84	4	251	75	96	0.02	0.0	4.935	0.079	0	0	0	71
PL.32057	PL.31301	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.23	11.84	4	251	75	96	0.02	0.0	5.013	0.078	0	0	0	71
PL.32058	PL.32057	ABC	#3/0 ACSR	7.37Y	122.8	0.00	2.23	11.84	4	251	75	96	0.00	0.0	5.017	0.004	0	0	0	71
PL.31747	PL.32058	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.24	10.71	4	227	68	96	0.01	0.0	5.086	0.069	1	0	2	66
PL.31748	PL.31747	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.25	9.76	3	207	62	96	0.01	0.0	5.169	0.083	0	0	0	63
PL.32067	PL.31748	A	#4 ACSR	7.37Y	122.8	0.00	2.25	1.45	1	10	3	96	0.00	0.0	5.173	0.004	0	0	0	2
PD.4338	PL.32067	A	65T	7.37Y	122.8	0.00	2.25	1.45	0	10	3	96	0.00	0.0	5.173	0.004	0	0	0	2
PL.32068	PD.4338	A	#4 ACSR	7.37Y	122.8	0.00	2.25	1.45	1	10	3	96	0.00	0.0	5.219	0.046	10	3	2	2
PL.31749	PL.31748	ABC	#3/0 ACSR	7.36Y	122.7	0.01	2.26	9.28	3	196	59	96	0.01	0.0	5.249	0.080	6	2	2	61
PL.32069	PL.31749	C	#2 ACSR	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	5.253	0.004	0	0	0	0
PD.4339	PL.32069	C	65T	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	5.253	0.004	0	0	0	0
PL.32070	PD.4339	C	#2 ACSR	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	5.295	0.042	0	0	0	0
PL.31858	PL.31749	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.26	8.98	3	190	57	96	0.00	0.0	5.288	0.039	13	4	1	59
PL.31859	PL.31858	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.26	8.38	3	177	53	96	0.00	0.0	5.312	0.024	6	2	2	58
PL.31092	PL.31859	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.27	6.97	2	147	45	96	0.00	0.0	5.353	0.042	0	0	0	53
PL.32075	PL.31092	B	#2 ACSR	7.36Y	122.7	0.00	2.27	0.73	0	5	1	98	0.00	0.0	5.358	0.005	0	0	0	1
PD.4342	PL.32075	B	65T	7.36Y	122.7	0.00	2.27	0.73	0	5	1	98	0.00	0.0	5.358	0.005	0	0	0	1
PL.32076	PD.4342	B	#2 ACSR	7.36Y	122.7	0.00	2.27	0.73	0	5	1	98	0.00	0.0	5.389	0.031	0	0	0	1
PL.31840	PL.32076	B	#2 ACSR	7.36Y	122.7	0.00	2.27	0.73	0	5	1	98	0.00	0.0	5.423	0.034	5	1	1	1
PL.31093	PL.31092	ABC	#3/0 ACSR	7.36Y	122.7	0.01	2.27	6.73	2	142	43	96	0.01	0.0	5.443	0.090	0	0	0	52
PL.31843	PL.31093	ABC	#3/0 ACSR	7.36Y	122.7	0.01	2.28	6.01	2	127	39	96	0.01	0.0	5.549	0.106	2	1	1	36
PL.31844	PL.31843	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.29	5.90	2	125	38	96	0.00	0.0	5.601	0.052	0	0	0	35
PL.32083	PL.31844	A	#1/0 ACSR	7.36Y	122.7	0.00	2.29	0.55	0	4	1	97	0.00	0.0	5.604	0.004	0	0	0	1
PD.4346	PL.32083	A	65T	7.36Y	122.7	0.00	2.29	0.55	0	4	1	97	0.00	0.0	5.604	0.004	0	0	0	1
PL.32084	PD.4346	A	#1/0 ACSR	7.36Y	122.7	0.00	2.29	0.55	0	4	1	97	0.00	0.0	5.635	0.030	4	1	1	1

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

Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31296	PL.31844	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.29	5.72	2	121	37	96	0.00	0.0	5.639	0.039	1	0	1	34
PL.31100	PL.31296	ABC	#3/0 ACSR	7.36Y	122.7	0.01	2.30	5.68	2	120	37	96	0.01	0.0	5.812	0.172	8	2	2	33
PL.32079	PL.31100	B	#4 ACSR	7.36Y	122.7	0.00	2.30	0.29	0	2	1	89	0.00	0.0	5.816	0.004	0	0	0	1
PD.4344	PL.32079	B	65T	7.36Y	122.7	0.00	2.30	0.29	0	2	1	89	0.00	0.0	5.816	0.004	0	0	0	1
PL.32080	PD.4344	B	#4 ACSR	7.36Y	122.7	0.00	2.30	0.29	0	2	1	89	0.00	0.0	5.899	0.083	2	1	1	1
PL.31295	PL.31100	ABC	#3/0 ACSR	7.36Y	122.7	0.01	2.31	5.20	2	110	34	96	0.01	0.0	5.933	0.121	0	0	0	30
PL.32081	PL.31295	A	#4 ACSR	7.36Y	122.7	0.00	2.31	0.35	0	2	1	89	0.00	0.0	5.937	0.005	0	0	0	3
PD.4345	PL.32081	A	65T	7.36Y	122.7	0.00	2.31	0.35	0	2	1	89	0.00	0.0	5.937	0.005	0	0	0	3
PL.32082	PD.4345	A	#4 ACSR	7.36Y	122.7	0.00	2.31	0.35	0	2	1	89	0.00	0.0	6.005	0.068	1	0	2	3
PL.31860	PL.32082	A	#4 ACSR	7.36Y	122.7	0.00	2.31	0.18	0	1	0	100	0.00	0.0	6.063	0.057	1	0	1	1
PL.31101	PL.31295	ABC	#3/0 ACSR	7.36Y	122.7	0.01	2.32	5.08	2	107	33	96	0.00	0.0	6.040	0.108	0	0	0	27
PL.32085	PL.31101	A	#4 ACSR	7.36Y	122.7	0.00	2.32	2.41	2	17	5	96	0.00	0.0	6.045	0.005	0	0	0	6
PD.4347	PL.32085	A	65T	7.36Y	122.7	0.00	2.32	2.41	0	17	5	96	0.00	0.0	6.045	0.005	0	0	0	6
PL.32086	PD.4347	A	#4 ACSR	7.36Y	122.7	0.01	2.32	2.41	2	17	5	96	0.00	0.0	6.121	0.076	8	2	2	6
PL.31845	PL.32086	A	#4 ACSR	7.36Y	122.7	0.00	2.33	1.22	1	9	2	98	0.00	0.0	6.209	0.088	0	0	1	4
PL.31102	PL.31845	A	#4 ACSR	7.36Y	122.7	0.00	2.33	1.19	1	8	2	97	0.00	0.0	6.245	0.036	0	0	0	3
PL.31103	PL.31102	A	#4 ACSR	7.36Y	122.7	0.00	2.33	0.60	0	4	1	97	0.00	0.0	6.262	0.017	4	1	1	1
PL.31104	PL.31102	A	#4 ACSR	7.36Y	122.7	0.00	2.33	0.60	0	4	1	97	0.00	0.0	6.286	0.041	4	1	2	2
PL.31294	PL.31101	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.32	4.28	1	90	28	95	0.00	0.0	6.130	0.090	0	0	0	21
PL.31466	PL.31294	ABC	#3/0 ACSR	7.36Y	122.7	0.01	2.33	4.28	1	90	28	95	0.00	0.0	6.271	0.141	8	2	1	21
PL.31292	PL.31466	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.33	3.71	1	78	25	95	0.00	0.0	6.346	0.075	0	0	0	14
PL.31847	PL.31292	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.34	3.71	1	78	25	95	0.00	0.0	6.409	0.063	7	2	1	14
PL.31846	PL.31847	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.34	3.36	1	71	23	95	0.00	0.0	6.426	0.017	0	0	0	13
PL.32087	PL.31846	C	#1/0 ACSR	7.36Y	122.7	0.00	2.34	1.33	1	9	3	95	0.00	0.0	6.430	0.005	0	0	0	1
PD.4348	PL.32087	C	65T	7.36Y	122.7	0.00	2.34	1.33	0	9	3	95	0.00	0.0	6.430	0.005	0	0	0	1
PL.32088	PD.4348	C	#1/0 ACSR	7.36Y	122.7	0.00	2.34	1.33	1	9	3	95	0.00	0.0	6.435	0.005	9	3	1	1
PL.31848	PL.31846	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.34	2.92	1	61	20	95	0.00	0.0	6.456	0.030	1	0	1	12
PL.31937	PL.31848	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.34	2.88	1	60	20	95	0.00	0.0	6.512	0.056	13	6	1	11
PL.31936	PL.31937	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.34	2.23	1	47	14	96	0.00	0.0	6.569	0.057	2	1	1	10
PL.31850	PL.31936	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.34	2.13	1	45	13	96	0.00	0.0	6.622	0.053	6	2	2	9
PL.31849	PL.31850	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.34	1.84	1	39	11	96	0.00	0.0	6.679	0.056	0	0	0	7

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32141	PL.31849	C	#4 ACSR	7.36Y	122.7	0.00	2.34	2.36	2	17	5	96	0.00	0.0	6.683	0.005	0	0	0	2
PD.4377	PL.32141	C	65T	7.36Y	122.7	0.00	2.34	2.36	0	17	5	96	0.00	0.0	6.683	0.005	0	0	0	2
PL.32142	PD.4377	C	#4 ACSR	7.36Y	122.7	0.00	2.35	2.36	2	17	5	96	0.00	0.0	6.727	0.044	17	5	2	2
PL.32139	PL.31849	A	#4 ACSR	7.36Y	122.7	0.00	2.34	3.17	2	22	6	96	0.00	0.0	6.683	0.005	0	0	0	5
PD.4376	PL.32139	A	65T	7.36Y	122.7	0.00	2.34	3.17	0	22	6	96	0.00	0.0	6.683	0.005	0	0	0	5
PL.32140	PD.4376	A	#4 ACSR	7.36Y	122.7	0.00	2.35	3.17	2	22	6	96	0.00	0.0	6.697	0.014	0	0	0	5
PL.31107	PL.32140	A	#4 ACSR	7.36Y	122.7	0.00	2.35	1.23	1	9	3	95	0.00	0.0	6.744	0.047	9	3	2	2
PL.31291	PL.32140	A	#4 ACSR	7.36Y	122.6	0.00	2.35	1.93	1	14	4	96	0.00	0.0	6.783	0.085	13	4	2	3
PL.31109	PL.31291	A	#4 ACSR	7.36Y	122.6	0.00	2.35	0.05	0	0	0	100	0.00	0.0	6.859	0.076	0	0	1	1
PL.31108	PL.31849	ABC	#3/0 ACSR	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	6.712	0.033	0	0	0	0
PL.31106	PL.31108	ABC	336 MCM AC	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	6.790	0.078	0	0	0	0
PD.6125-A	PL.31106	ABC	Open	7.36Y	122.7	0.00	2.34	0.00	0	0	0	100	0.00	0.0	6.790	0.078	0	0	0	0
PL.32137	PL.31466	A	6 A (CWC)	7.36Y	122.7	0.00	2.33	0.58	0	4	1	97	0.00	0.0	6.276	0.005	0	0	0	6
PD.4375	PL.32137	A	25T	7.36Y	122.7	0.00	2.33	0.58	0	4	1	97	0.00	0.0	6.276	0.005	0	0	0	6
PL.32138	PD.4375	A	6 A (CWC)	7.36Y	122.7	0.00	2.33	0.58	0	4	1	97	0.00	0.0	6.374	0.098	3	1	2	6
PL.31293	PL.32138	A	6 A (CWC)	7.36Y	122.7	0.00	2.33	0.07	0	0	0	100	0.00	0.0	6.493	0.119	0	0	0	2
PL.31467	PL.31293	A	6 A (CWC)	7.36Y	122.7	0.00	2.33	0.07	0	0	0	100	0.00	0.0	6.650	0.157	0	0	1	2
PL.31110	PL.31467	A	#1/0 ACSR	7.36Y	122.7	0.00	2.33	0.06	0	0	0	100	0.00	0.0	6.691	0.041	0	0	1	1
PL.31105	PL.32138	A	6 A (CWC)	7.36Y	122.7	0.00	2.33	0.09	0	1	0	100	0.00	0.0	6.416	0.042	1	0	2	2
PL.31094	PL.31093	C	#4 ACSR	7.36Y	122.7	0.00	2.27	2.15	2	15	4	97	0.00	0.0	5.447	0.004	0	0	0	16
PD.4374	PL.31094	C	25T	7.36Y	122.7	0.00	2.27	2.15	0	15	4	97	0.00	0.0	5.447	0.004	0	0	0	16
PL.31297	PD.4374	C	#4 ACSR	7.36Y	122.7	0.01	2.28	1.25	1	9	3	95	0.00	0.0	5.614	0.167	0	0	0	14
PL.31465	PL.31297	C	#4 ACSR	7.36Y	122.7	0.01	2.29	1.25	1	9	3	95	0.00	0.0	5.756	0.142	0	0	0	14
PL.31096	PL.31465	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.33	0	2	1	89	0.00	0.0	5.845	0.089	0	0	0	13
PL.31097	PL.31096	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.33	0	2	1	89	0.00	0.0	5.876	0.030	0	0	0	1
PL.31298	PL.31097	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.33	0	2	1	89	0.00	0.0	5.909	0.033	2	1	1	1
PL.32073	PL.31096	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	5.850	0.005	0	0	0	12
PD.4341	PL.32073	C	40T	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	5.850	0.005	0	0	0	12
PL.32074	PD.4341	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	5.868	0.018	0	0	1	12
PL.31835	PL.32074	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	5.899	0.031	0	0	1	7
PL.31836	PL.31835	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	5.982	0.083	0	0	1	6

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31299	PL.31836	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	6.034	0.051	0	0	1	5
PL.31623	PL.31299	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	6.074	0.040	0	0	2	3
PL.31622	PL.31623	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	6.126	0.052	0	0	1	1
PL.31300	PL.31299	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	6.101	0.067	0	0	1	1
PL.31098	PL.31836	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	6.033	0.050	0	0	0	0
PL.31837	PL.32074	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	5.888	0.020	0	0	2	4
PL.31838	PL.31837	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	5.918	0.030	0	0	2	2
PL.31839	PL.31838	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	5.932	0.014	0	0	0	0
PL.31095	PL.31465	C	#4 ACSR	7.36Y	122.7	0.00	2.29	0.92	1	7	2	96	0.00	0.0	5.821	0.065	7	2	1	1
PL.31099	PD.4374	C	#4 ACSR	7.36Y	122.7	0.00	2.28	0.90	1	6	2	95	0.00	0.0	5.598	0.151	6	2	2	2
PL.32071	PL.31859	A	#4 ACSR	7.36Y	122.7	0.00	2.26	1.04	1	7	2	96	0.00	0.0	5.316	0.005	0	0	0	1
PD.4340	PL.32071	A	65T	7.36Y	122.7	0.00	2.26	1.04	0	7	2	96	0.00	0.0	5.316	0.005	0	0	0	1
PL.32072	PD.4340	A	#4 ACSR	7.36Y	122.7	0.00	2.26	1.04	1	7	2	96	0.00	0.0	5.347	0.031	7	2	1	1
PL.32135	PL.31859	C	#4 ACSR	7.36Y	122.7	0.00	2.26	2.29	2	16	5	95	0.00	0.0	5.316	0.005	0	0	0	2
PD.4373	PL.32135	C	65T	7.36Y	122.7	0.00	2.26	2.29	0	16	5	95	0.00	0.0	5.316	0.005	0	0	0	2
PL.32136	PD.4373	C	#4 ACSR	7.36Y	122.7	0.01	2.27	2.29	2	16	5	95	0.00	0.0	5.401	0.085	0	0	0	2
PL.65714	PL.32136	C	#4 ACSR	7.36Y	122.7	0.01	2.28	2.29	2	16	5	95	0.00	0.0	5.451	0.050	0	0	0	2
PL.65715	PL.65714	C	#4 ACSR	7.36Y	122.7	0.00	2.28	2.29	2	16	5	95	0.00	0.0	5.524	0.073	16	5	2	2
PL.65713	PL.65714	C	#1/0 ACSR	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	5.510	0.059	0	0	0	0
PL.65716	PL.65713	C	#1/0 ACSR	7.36Y	122.7	0.00	2.28	0.00	0	0	0	100	0.00	0.0	5.551	0.041	0	0	0	0
PL.32059	PL.31747	A	#2 ACSR	7.37Y	122.8	0.00	2.24	2.69	2	19	5	97	0.00	0.0	5.090	0.004	0	0	0	1
PD.4334	PL.32059	A	65T	7.37Y	122.8	0.00	2.24	2.69	0	19	5	97	0.00	0.0	5.090	0.004	0	0	0	1
PL.32060	PD.4334	A	#2 ACSR	7.37Y	122.8	0.00	2.24	2.69	2	19	5	97	0.00	0.0	5.132	0.042	19	5	1	1
PL.32055	PL.32058	A	6 A (CWC)	7.37Y	122.8	0.00	2.23	3.38	2	24	7	96	0.00	0.0	5.021	0.004	0	0	0	5
PD.4333	PL.32055	A	65T	7.37Y	122.8	0.00	2.23	3.38	0	24	7	96	0.00	0.0	5.021	0.004	0	0	0	5
PL.32056	PD.4333	A	6 A (CWC)	7.36Y	122.7	0.02	2.25	3.38	2	24	7	96	0.00	0.0	5.173	0.152	0	0	0	5
PL.31620	PL.32056	A	#4 ACSR	7.36Y	122.7	0.01	2.26	2.92	2	21	6	96	0.00	0.0	5.239	0.067	7	2	1	4
PL.31621	PL.31620	A	#4 ACSR	7.36Y	122.7	0.00	2.26	1.87	1	13	4	96	0.00	0.0	5.306	0.067	9	2	2	3
PL.31091	PL.31621	A	#2 ACSR	7.36Y	122.7	0.00	2.26	0.65	0	5	1	98	0.00	0.0	5.346	0.040	5	1	1	1
PL.31746	PL.32056	A	6 A (CWC)	7.36Y	122.7	0.00	2.25	0.46	0	3	1	95	0.00	0.0	5.290	0.118	3	1	1	1
PL.32167	PL.32166	ABC	#3/0 ACSR	7.37Y	122.8	0.01	2.17	87.01	29	1837	571	95	0.06	0.0	4.621	0.005	0	0	0	408

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: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.4390-A	PL.32167	ABC	Closed	7.37Y	122.8	0.00	2.17	87.01	0	1837	571	95	0.00	0.0	4.621	0.005	0	0	0	408
PD.4390-B	PD.4390-A	ABC	Closed	7.37Y	122.8	0.00	2.17	87.01	0	1837	571	95	0.00	0.0	4.621	0.005	0	0	0	408
PL.32168	PD.4390-B	ABC	#3/0 ACSR	7.36Y	122.7	0.18	2.34	87.01	29	1837	571	95	1.99	0.1	4.780	0.159	33	9	6	408
PL.31614	PL.32168	ABC	#3/0 ACSR	7.36Y	122.6	0.07	2.41	85.46	28	1802	558	96	0.76	0.0	4.842	0.062	2	1	1	402
PL.31111	PL.31614	ABC	#3/0 ACSR	7.35Y	122.5	0.09	2.50	78.62	26	1657	515	95	0.87	0.1	4.926	0.084	7	2	1	379
PL.32049	PL.31111	A	#4 ACSR	7.35Y	122.5	0.00	2.50	1.06	1	7	2	96	0.00	0.0	4.931	0.005	0	0	0	2
PD.4330	PL.32049	A	65T	7.35Y	122.5	0.00	2.50	1.06	0	7	2	96	0.00	0.0	4.931	0.005	0	0	0	2
PL.32050	PD.4330	A	#4 ACSR	7.35Y	122.5	0.00	2.50	1.06	1	7	2	96	0.00	0.0	5.072	0.141	7	2	2	2
PL.31324	PL.31111	ABC	#3/0 ACSR	7.35Y	122.4	0.08	2.58	77.92	26	1641	510	95	0.85	0.1	5.011	0.084	19	6	2	376
PL.32051	PL.31324	C	6 A (CWC)	7.35Y	122.4	0.00	2.58	0.01	0	0	0	100	0.00	0.0	5.015	0.005	0	0	0	2
PD.4331	PL.32051	C	65T	7.35Y	122.4	0.00	2.58	0.01	0	0	0	100	0.00	0.0	5.015	0.005	0	0	0	2
PL.32052	PD.4331	C	6 A (CWC)	7.35Y	122.4	0.00	2.58	0.01	0	0	0	100	0.00	0.0	5.084	0.068	0	0	0	2
PL.31471	PL.32052	C	6 A (CWC)	7.35Y	122.4	0.00	2.58	0.01	0	0	0	100	0.00	0.0	5.283	0.200	0	0	2	2
PL.31602	PL.31324	ABC	#3/0 ACSR	7.34Y	122.3	0.07	2.65	77.01	26	1621	503	96	0.68	0.0	5.080	0.069	24	7	3	372
PL.31603	PL.31602	ABC	#3/0 ACSR	7.34Y	122.3	0.05	2.70	75.87	25	1596	495	96	0.45	0.0	5.126	0.047	8	2	1	369
PL.31126	PL.31603	ABC	#3/0 ACSR	7.33Y	122.2	0.06	2.76	75.06	25	1578	490	96	0.59	0.0	5.189	0.062	5	1	1	365
PL.32043	PL.31126	A	#2 ACSR	7.33Y	122.2	0.00	2.76	1.40	1	10	3	96	0.00	0.0	5.193	0.005	0	0	0	2
PD.4327	PL.32043	A	65T	7.33Y	122.2	0.00	2.76	1.40	0	10	3	96	0.00	0.0	5.193	0.005	0	0	0	2
PL.32044	PD.4327	A	#2 ACSR	7.33Y	122.2	0.00	2.76	1.40	1	10	3	96	0.00	0.0	5.232	0.038	10	3	2	2
PL.31127	PL.31126	ABC	#3/0 ACSR	7.33Y	122.2	0.07	2.83	74.36	25	1563	484	96	0.66	0.0	5.260	0.071	6	2	1	362
PL.32033	PL.31127	B	#4 ACSR	7.33Y	122.2	0.00	2.83	0.77	1	5	2	93	0.00	0.0	5.284	0.024	0	0	0	1
PD.4322	PL.32033	B	65T	7.33Y	122.2	0.00	2.83	0.77	0	5	2	93	0.00	0.0	5.284	0.024	0	0	0	1
PL.32034	PD.4322	B	#4 ACSR	7.33Y	122.2	0.00	2.83	0.77	1	5	2	93	0.00	0.0	5.324	0.039	5	2	1	1
PL.31325	PL.31127	ABC	#3/0 ACSR	7.32Y	122.1	0.10	2.93	73.83	25	1551	480	96	0.99	0.1	5.369	0.109	10	3	1	360
PL.32035	PL.31325	A	6 A (CWC)	7.32Y	122.1	0.00	2.93	0.00	0	0	0	100	0.00	0.0	5.374	0.005	0	0	0	1
PD.4323	PL.32035	A	65T	7.32Y	122.1	0.00	2.93	0.00	0	0	0	100	0.00	0.0	5.374	0.005	0	0	0	1
PL.32036	PD.4323	A	6 A (CWC)	7.32Y	122.1	0.00	2.93	0.00	0	0	0	100	0.00	0.0	5.534	0.160	0	0	0	1
PL.31472	PL.32036	A	6 A (CWC)	7.32Y	122.1	0.00	2.93	0.00	0	0	0	100	0.00	0.0	5.716	0.182	0	0	1	1
PL.31131	PL.31325	ABC	#3/0 ACSR	7.32Y	122.0	0.12	3.05	73.38	24	1540	476	96	1.14	0.1	5.495	0.126	4	1	1	358
PL.31741	PL.31131	ABC	#3/0 ACSR	7.31Y	121.9	0.07	3.12	72.78	24	1527	471	96	0.63	0.0	5.567	0.071	6	2	1	354
PL.31742	PL.31741	ABC	#3/0 ACSR	7.31Y	121.8	0.07	3.19	72.19	24	1514	466	96	0.69	0.0	5.646	0.080	10	3	1	352

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32145	PL.31742	A	#2 ACSR	7.31Y	121.8	0.00	3.19	1.79	1	13	4	96	0.00	0.0	5.651	0.005	0	0	0	2
PD.4379	PL.32145	A	65T	7.31Y	121.8	0.00	3.19	1.79	0	13	4	96	0.00	0.0	5.651	0.005	0	0	0	2
PL.32146	PD.4379	A	#2 ACSR	7.31Y	121.8	0.00	3.19	1.79	1	13	4	96	0.00	0.0	5.688	0.037	12	3	1	2
PL.31597	PL.32146	A	#2 ACSR	7.31Y	121.8	0.00	3.19	0.14	0	1	0	100	0.00	0.0	5.746	0.058	1	0	1	1
PL.31594	PL.31742	ABC	#3/0 ACSR	7.31Y	121.8	0.04	3.23	70.77	24	1483	457	96	0.39	0.0	5.693	0.046	7	2	1	348
PL.31595	PL.31594	ABC	#3/0 ACSR	7.30Y	121.7	0.04	3.27	70.45	23	1476	454	96	0.38	0.0	5.738	0.045	5	1	2	347
PL.31596	PL.31595	ABC	#3/0 ACSR	7.30Y	121.7	0.04	3.32	70.20	23	1470	452	96	0.39	0.0	5.785	0.047	0	0	1	345
PL.31593	PL.31596	ABC	#3/0 ACSR	7.30Y	121.6	0.08	3.39	70.20	23	1470	452	96	0.70	0.0	5.870	0.085	10	3	3	344
PL.32147	PL.31593	C	#1/0 ACSR	7.30Y	121.6	0.00	3.39	1.33	1	9	3	95	0.00	0.0	5.875	0.005	0	0	0	1
PD.4380	PL.32147	C	10T	7.30Y	121.6	0.00	3.39	1.33	0	9	3	95	0.00	0.0	5.875	0.005	0	0	0	1
PL.32148	PD.4380	C	#1/0 ACSR	7.30Y	121.6	0.00	3.39	1.33	1	9	3	95	0.00	0.0	5.936	0.061	9	3	1	1
PL.31327	PL.31593	ABC	#3/0 ACSR	7.29Y	121.5	0.12	3.51	68.73	23	1438	442	96	1.09	0.1	6.008	0.138	6	2	1	338
PL.31133	PL.31327	C	#1/0 ACSR	7.29Y	121.5	0.01	3.52	6.43	3	45	13	96	0.00	0.0	6.054	0.046	0	0	0	7
PL.31134	PL.31133	C	#1/0 ACSR	7.29Y	121.5	0.00	3.52	6.43	3	45	13	96	0.00	0.0	6.072	0.018	1	0	1	7
PL.31738	PL.31134	C	6 A (CWC)	7.29Y	121.5	0.00	3.53	6.36	5	45	13	96	0.00	0.0	6.077	0.005	0	0	0	6
PD.4317	PL.31738	C	65T	7.29Y	121.5	0.00	3.53	6.36	0	45	13	96	0.00	0.0	6.077	0.005	0	0	0	6
PL.31135	PD.4317	C	#1/0 ACSR	7.29Y	121.5	0.00	3.53	1.08	0	8	2	97	0.00	0.0	6.124	0.047	8	2	1	1
PL.31739	PD.4317	C	6 A (CWC)	7.29Y	121.4	0.05	3.57	5.27	4	37	11	96	0.01	0.0	6.289	0.212	7	2	1	5
PL.31473	PL.31739	C	#2 ACSR	7.29Y	121.4	0.00	3.58	1.12	1	8	2	97	0.00	0.0	6.404	0.115	0	0	0	1
PL.31136	PL.31473	C	#2 ACSR	7.29Y	121.4	0.00	3.58	1.12	1	8	2	97	0.00	0.0	6.530	0.126	8	2	1	1
PL.31834	PL.31739	C	6 A (CWC)	7.29Y	121.4	0.01	3.58	3.16	2	22	6	96	0.00	0.0	6.335	0.045	4	1	1	3
PL.31579	PL.31834	C	6 A (CWC)	7.28Y	121.4	0.02	3.59	2.54	2	18	5	96	0.00	0.0	6.469	0.134	0	0	0	2
PL.31137	PL.31579	C	6 A (CWC)	7.28Y	121.4	0.00	3.60	0.60	0	4	1	97	0.00	0.0	6.653	0.185	4	1	1	1
PL.31138	PL.31579	C	#1/0 ACSR	7.28Y	121.4	0.00	3.60	1.94	1	14	4	96	0.00	0.0	6.535	0.067	0	0	0	1
PL.32011	PL.31138	C	1/0 AL URD	7.28Y	121.4	0.00	3.60	1.94	1	14	4	96	0.00	0.0	6.540	0.005	0	0	0	1
PD.4310	PL.32011	C	40T	7.28Y	121.4	0.00	3.60	1.94	0	14	4	96	0.00	0.0	6.540	0.005	0	0	0	1
PL.32012	PD.4310	C	1/0 AL URD	7.28Y	121.4	0.00	3.60	1.94	1	14	4	96	0.00	0.0	6.549	0.009	14	4	1	1
PL.31328	PL.31327	ABC	#3/0 ACSR	7.28Y	121.4	0.10	3.62	66.28	22	1386	425	96	0.90	0.1	6.130	0.122	0	0	0	330
PL.31139	PL.31328	A	#2 ACSR	7.28Y	121.4	0.00	3.62	0.00	0	0	0	100	0.00	0.0	6.239	0.109	0	0	1	1
PL.32023	PL.31328	C	#2 ACSR	7.28Y	121.4	0.00	3.62	1.75	1	12	4	95	0.00	0.0	6.154	0.024	0	0	0	2
PD.4316	PL.32023	C	65T	7.28Y	121.4	0.00	3.62	1.75	0	12	4	95	0.00	0.0	6.154	0.024	0	0	0	2

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32024	PD.4316	C	#2 ACSR	7.28Y	121.4	0.00	3.62	1.75	1	12	4	95	0.00	0.0	6.194	0.040	4	1	1	2
PL.31588	PL.32024	C	#2 ACSR	7.28Y	121.4	0.00	3.62	1.21	1	9	2	98	0.00	0.0	6.222	0.028	9	2	1	1
PL.31140	PL.31328	ABC	#3/0 ACSR	7.28Y	121.3	0.03	3.65	65.70	22	1372	421	96	0.27	0.0	6.168	0.037	8	2	1	327
PL.31589	PL.31140	ABC	#3/0 ACSR	7.28Y	121.3	0.06	3.71	64.81	22	1353	415	96	0.50	0.0	6.238	0.071	7	2	1	325
PL.31590	PL.31589	ABC	#3/0 ACSR	7.27Y	121.2	0.07	3.78	64.46	21	1346	412	96	0.56	0.0	6.319	0.081	7	2	1	324
PL.31580	PL.31590	ABC	#3/0 ACSR	7.27Y	121.1	0.12	3.90	63.52	21	1325	406	96	1.01	0.1	6.469	0.149	9	3	3	321
PL.31581	PL.31580	ABC	#3/0 ACSR	7.26Y	121.0	0.11	4.01	63.10	21	1316	402	96	0.90	0.1	6.603	0.134	0	0	0	318
PL.31474	PL.31581	ABC	#3/0 ACSR	7.26Y	120.9	0.07	4.08	63.10	21	1315	400	96	0.55	0.0	6.686	0.083	0	0	0	318
PL.31154	PL.31474	B	6 A (CWC)	7.26Y	120.9	0.00	4.08	0.44	0	3	1	95	0.00	0.0	6.745	0.058	3	1	1	1
PL.32021	PL.31474	B	#2 ACSR	7.26Y	120.9	0.00	4.08	0.81	0	6	2	95	0.00	0.0	6.691	0.005	0	0	0	3
PD.4315	PL.32021	B	65T	7.26Y	120.9	0.00	4.08	0.81	0	6	2	95	0.00	0.0	6.691	0.005	0	0	0	3
PL.32022	PD.4315	B	#2 ACSR	7.26Y	120.9	0.00	4.08	0.81	0	6	2	95	0.00	0.0	6.714	0.023	6	2	3	3
PL.31587	PL.31474	ABC	#3/0 ACSR	7.26Y	120.9	0.01	4.08	62.69	21	1305	397	96	0.06	0.0	6.695	0.008	0	0	0	314
PL.32190	PL.31587	ABC	#3/0 ACSR	7.25Y	120.9	0.00	4.08	62.69	21	1305	397	96	0.02	0.0	6.697	0.003	0	0	0	314
PD.4402	PL.32190	ABC	200VWE	7.25Y	120.9	0.00	4.08	62.69	0	1305	397	96	0.00	0.0	6.697	0.003	0	0	0	314
PL.32191	PD.4402	ABC	#3/0 ACSR	7.25Y	120.8	0.10	4.18	62.69	21	1305	397	96	0.81	0.1	6.820	0.122	0	0	0	314
PL.32019	PL.32191	A	#2 ACSR	7.25Y	120.8	0.00	4.18	1.27	1	9	3	95	0.00	0.0	6.824	0.005	0	0	0	2
PD.4314	PL.32019	A	40T	7.25Y	120.8	0.00	4.18	1.27	0	9	3	95	0.00	0.0	6.824	0.005	0	0	0	2
PL.32020	PD.4314	A	#2 ACSR	7.25Y	120.8	0.00	4.19	1.27	1	9	3	95	0.00	0.0	6.893	0.069	0	0	1	2
PL.31582	PL.32020	A	#2 ACSR	7.25Y	120.8	0.00	4.19	1.27	1	9	3	95	0.00	0.0	6.948	0.054	9	3	1	1
PL.31583	PL.32191	ABC	#3/0 ACSR	7.25Y	120.8	0.02	4.21	62.26	21	1296	393	96	0.18	0.0	6.848	0.028	9	3	4	312
PL.31584	PL.31583	ABC	#3/0 ACSR	7.25Y	120.8	0.03	4.24	61.82	21	1286	390	96	0.26	0.0	6.888	0.040	0	0	0	308
PL.31585	PL.31584	ABC	#1/0 ACSR	7.24Y	120.7	0.08	4.31	61.82	27	1286	390	96	0.70	0.1	6.957	0.069	14	4	2	308
PL.31586	PL.31585	ABC	#1/0 ACSR	7.24Y	120.6	0.10	4.41	61.16	27	1272	385	96	0.88	0.1	7.045	0.088	7	2	1	306
PL.31734	PL.31586	ABC	#1/0 ACSR	7.23Y	120.5	0.06	4.47	60.47	26	1256	380	96	0.49	0.0	7.095	0.050	2	1	1	302
PL.31142	PL.31734	ABC	#1/0 ACSR	7.23Y	120.5	0.07	4.54	60.36	26	1253	379	96	0.59	0.0	7.157	0.061	8	2	5	301
PL.31143	PL.31142	ABC	#1/0 ACSR	7.22Y	120.4	0.10	4.64	53.10	23	1102	335	96	0.78	0.1	7.260	0.103	0	0	0	264
PL.31480	PL.31143	ABC	#1/0 ACSR	7.21Y	120.2	0.12	4.75	53.10	23	1101	334	96	0.92	0.1	7.382	0.122	0	0	0	264
PL.31481	PL.31480	ABC	#1/0 ACSR	7.21Y	120.1	0.10	4.86	53.10	23	1100	333	96	0.79	0.1	7.487	0.105	0	0	0	264
PL.32198	PL.31481	ABC	#1/0 ACSR	7.21Y	120.1	0.05	4.91	53.10	23	1099	333	96	0.39	0.0	7.539	0.052	0	0	0	264
PL.32199	PL.32198	ABC	#1/0 ACSR	7.20Y	120.1	0.04	4.94	53.10	23	1099	332	96	0.29	0.0	7.577	0.038	0	0	0	264

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Balanced Voltage Drop Report
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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	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31717	PL.32199	ABC	#1/0 ACSR	7.20Y	120.0	0.09	5.03	53.10	23	1098	332	96	0.68	0.1	7.668	0.090	0	0	0	264
PL.31482	PL.31717	ABC	#1/0 ACSR	7.19Y	119.8	0.12	5.15	53.10	23	1098	331	96	0.95	0.1	7.794	0.126	0	0	0	264
PL.31483	PL.31482	ABC	#1/0 ACSR	7.18Y	119.7	0.17	5.32	53.10	23	1097	330	96	1.28	0.1	7.965	0.171	0	0	0	264
PL.31484	PL.31483	ABC	#1/0 ACSR	7.17Y	119.5	0.15	5.47	53.10	23	1096	329	96	1.18	0.1	8.122	0.157	0	0	0	264
PL.31485	PL.31484	ABC	#1/0 ACSR	7.16Y	119.4	0.17	5.65	53.10	23	1094	328	96	1.34	0.1	8.301	0.179	0	0	0	264
PL.32009	PL.31485	A	1/0 AL URD	7.16Y	119.4	0.00	5.65	1.89	1	13	4	96	0.00	0.0	8.305	0.004	0	0	0	1
PD.4309	PL.32009	A	40T	7.16Y	119.4	0.00	5.65	1.89	0	13	4	96	0.00	0.0	8.305	0.004	0	0	0	1
PL.32010	PD.4309	A	1/0 AL URD	7.16Y	119.4	0.00	5.65	1.89	1	13	4	96	0.00	0.0	8.349	0.044	13	4	1	1
PL.31164	PL.31485	ABC	#1/0 ACSR	7.16Y	119.3	0.10	5.74	52.47	23	1080	323	96	0.76	0.1	8.405	0.104	0	0	0	263
PL.31827	PL.31164	ABC	#1/0 ACSR	7.15Y	119.2	0.08	5.83	52.47	23	1079	322	96	0.64	0.1	8.493	0.088	16	5	2	263
PL.31828	PL.31827	ABC	#1/0 ACSR	7.15Y	119.1	0.08	5.91	51.71	22	1063	317	96	0.62	0.1	8.579	0.086	0	0	0	261
PL.31732	PL.31828	ABC	#1/0 ACSR	7.14Y	118.9	0.15	6.06	48.95	21	1005	300	96	1.07	0.1	8.746	0.167	0	0	0	245
PL.32005	PL.31732	A	#2 ACSR	7.14Y	118.9	0.00	6.06	1.05	1	7	2	96	0.00	0.0	8.751	0.005	0	0	0	1
PD.4307	PL.32005	A	40T	7.14Y	118.9	0.00	6.06	1.05	0	7	2	96	0.00	0.0	8.751	0.005	0	0	0	1
PL.32006	PD.4307	A	#2 ACSR	7.14Y	118.9	0.00	6.06	1.05	1	7	2	96	0.00	0.0	8.810	0.060	7	2	1	1
PL.31731	PL.31732	ABC	#1/0 ACSR	7.13Y	118.9	0.07	6.13	47.95	21	984	293	96	0.47	0.0	8.823	0.077	0	0	0	239
PL.31995	PL.31731	C	#2 ACSR	7.13Y	118.9	0.00	6.13	1.96	1	13	4	96	0.00	0.0	8.828	0.005	0	0	0	2
PD.4302	PL.31995	C	40T	7.13Y	118.9	0.00	6.13	1.96	0	13	4	96	0.00	0.0	8.828	0.005	0	0	0	2
PL.31996	PD.4302	C	#2 ACSR	7.13Y	118.9	0.00	6.13	1.96	1	13	4	96	0.00	0.0	8.874	0.046	6	2	1	2
PL.31165	PL.31996	C	#1/0 ACSR	7.13Y	118.9	0.00	6.13	1.04	0	7	2	96	0.00	0.0	8.890	0.016	7	2	1	1
PL.31730	PL.31731	ABC	#1/0 ACSR	7.13Y	118.8	0.06	6.18	47.29	21	970	289	96	0.39	0.0	8.890	0.066	6	2	1	237
PL.31336	PL.31730	ABC	#1/0 ACSR	7.12Y	118.7	0.07	6.26	46.47	20	953	284	96	0.50	0.1	8.976	0.087	3	1	1	235
PL.31337	PL.31336	ABC	#1/0 ACSR	7.12Y	118.7	0.04	6.29	46.31	20	949	282	96	0.25	0.0	9.020	0.044	8	2	1	233
PL.32001	PL.31337	A	#1/0 ACSR	7.12Y	118.7	0.00	6.29	1.75	1	12	3	97	0.00	0.0	9.025	0.005	0	0	0	1
PD.4305	PL.32001	A	40T	7.12Y	118.7	0.00	6.29	1.75	0	12	3	97	0.00	0.0	9.025	0.005	0	0	0	1
PL.32002	PD.4305	A	#1/0 ACSR	7.12Y	118.7	0.00	6.29	1.75	1	12	3	97	0.00	0.0	9.087	0.062	12	3	1	1
PL.31818	PL.31337	ABC	#1/0 ACSR	7.11Y	118.6	0.13	6.42	45.34	20	929	276	96	0.85	0.1	9.176	0.156	0	0	1	231
REG20	PL.31818	ABC	76.2 KVA	7.54Y	125.6	-7.07	-0.65	45.34	45	928	276	96	percent Boost= 5.62			Tap= 9.0				230
PL.31819	REG20	ABC	#1/0 ACSR	7.54Y	125.6	0.06	-0.59	42.79	19	928	276	96	0.36	0.0	9.250	0.074	8	2	2	230
PL.31993	PL.31819	B	6 A (CWC)	7.54Y	125.6	0.00	-0.59	2.73	2	20	6	96	0.00	0.0	9.254	0.004	0	0	0	3
PD.4301	PL.31993	B	40T	7.54Y	125.6	0.00	-0.59	2.73	0	20	6	96	0.00	0.0	9.254	0.004	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: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31994	PD.4301	B	6 A (CWC)	7.54Y	125.6	0.00	-0.59	2.73	2	20	6	96	0.00	0.0	9.265	0.010	0	0	0	3
PL.31820	PL.31994	B	6 A (CWC)	7.53Y	125.6	0.00	-0.58	2.73	2	20	6	96	0.00	0.0	9.298	0.033	0	0	0	3
PL.31178	PL.31820	B	#4 ACSR	7.53Y	125.6	0.00	-0.58	1.62	1	12	3	97	0.00	0.0	9.383	0.085	12	3	1	1
PL.31338	PL.31820	B	6 A (CWC)	7.53Y	125.6	0.00	-0.58	1.11	1	8	2	97	0.00	0.0	9.472	0.175	8	2	2	2
PL.31821	PL.31819	ABC	#1/0 ACSR	7.53Y	125.5	0.04	-0.55	41.52	18	900	267	96	0.25	0.0	9.306	0.056	10	3	1	225
PL.31822	PL.31821	ABC	#1/0 ACSR	7.53Y	125.5	0.09	-0.46	41.04	18	889	264	96	0.53	0.1	9.424	0.118	0	0	1	224
PL.31991	PL.31822	B	#4 ACSR	7.53Y	125.5	0.00	-0.46	1.35	1	10	3	96	0.00	0.0	9.429	0.005	0	0	0	1
PD.4299	PL.31991	B	40T	7.53Y	125.5	0.00	-0.46	1.35	0	10	3	96	0.00	0.0	9.429	0.005	0	0	0	1
PL.31992	PD.4299	B	#4 ACSR	7.53Y	125.5	0.00	-0.46	1.35	1	10	3	96	0.00	0.0	9.484	0.055	10	3	1	1
PL.31339	PL.31822	ABC	#1/0 ACSR	7.53Y	125.4	0.04	-0.42	40.58	18	879	261	96	0.22	0.0	9.475	0.051	4	1	1	222
PL.31180	PL.31339	B	#2 ACSR	7.53Y	125.4	0.00	-0.42	3.27	2	24	7	96	0.00	0.0	9.479	0.004	0	0	0	2
PD.4300	PL.31180	B	40T	7.53Y	125.4	0.00	-0.42	3.27	0	24	7	96	0.00	0.0	9.479	0.004	0	0	0	2
PL.31340	PD.4300	B	#2 ACSR	7.53Y	125.4	0.00	-0.42	1.49	1	11	3	96	0.00	0.0	9.504	0.026	11	3	1	1
PL.31179	PD.4300	B	6 A (CWC)	7.53Y	125.4	0.00	-0.42	1.78	1	13	4	96	0.00	0.0	9.564	0.086	13	4	1	1
PL.31823	PL.31339	ABC	#1/0 ACSR	7.52Y	125.3	0.10	-0.32	39.31	17	851	253	96	0.59	0.1	9.618	0.143	3	1	1	219
PL.31824	PL.31823	ABC	#1/0 ACSR	7.51Y	125.2	0.12	-0.20	39.16	17	847	251	96	0.69	0.1	9.788	0.170	0	0	0	218
PL.32194	PL.31824	ABC	#1/0 ACSR	7.51Y	125.2	0.01	-0.19	38.65	17	835	247	96	0.06	0.0	9.803	0.015	0	0	0	216
PD.4404	PL.32194	ABC	100L	7.51Y	125.2	0.00	-0.19	38.65	39	835	247	96	0.00	0.0	9.803	0.015	0	0	0	216
PL.32195	PD.4404	ABC	#1/0 ACSR	7.51Y	125.1	0.06	-0.13	38.65	17	835	247	96	0.34	0.0	9.888	0.085	0	0	0	216
PL.31494	PL.32195	ABC	#1/0 ACSR	7.50Y	125.0	0.08	-0.05	38.65	17	835	247	96	0.44	0.1	9.998	0.110	0	0	0	216
PL.31495	PL.31494	ABC	#1/0 ACSR	7.50Y	125.0	0.07	0.02	38.65	17	834	246	96	0.42	0.1	10.103	0.105	0	0	0	216
PL.31496	PL.31495	ABC	#1/0 ACSR	7.49Y	124.9	0.09	0.12	38.65	17	834	246	96	0.52	0.1	10.234	0.131	0	0	0	216
PL.31497	PL.31496	ABC	#1/0 ACSR	7.49Y	124.8	0.06	0.18	38.65	17	833	246	96	0.35	0.0	10.321	0.087	0	0	0	216
PL.31989	PL.31497	B	6 A (CWC)	7.49Y	124.8	0.00	0.18	3.07	2	22	6	96	0.00	0.0	10.326	0.005	0	0	0	5
PD.4298	PL.31989	B	40T	7.49Y	124.8	0.00	0.18	3.07	0	22	6	96	0.00	0.0	10.326	0.005	0	0	0	5
PL.31990	PD.4298	B	6 A (CWC)	7.49Y	124.8	0.01	0.19	3.07	2	22	6	96	0.00	0.0	10.388	0.062	9	3	3	5
PL.31186	PL.31990	B	6 A (CWC)	7.49Y	124.8	0.00	0.19	0.63	0	5	1	98	0.00	0.0	10.436	0.048	0	0	0	1
PL.31187	PL.31186	B	#4 ACSR	7.49Y	124.8	0.00	0.19	0.63	0	5	1	98	0.00	0.0	10.481	0.044	5	1	1	1
PL.31185	PL.31990	B	#2 ACSR	7.49Y	124.8	0.00	0.19	1.17	1	8	2	97	0.00	0.0	10.439	0.051	8	2	1	1
PL.32151	PL.31497	B	#4 ACSR	7.49Y	124.8	0.00	0.18	3.33	3	24	7	96	0.00	0.0	10.326	0.005	0	0	0	4
PD.4382	PL.32151	B	40T	7.49Y	124.8	0.00	0.18	3.33	0	24	7	96	0.00	0.0	10.326	0.005	0	0	0	4

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32152	PD.4382	B	#4 ACSR	7.49Y	124.8	0.01	0.19	3.33	3	24	7	96	0.00	0.0	10.393	0.067	11	3	1	4
PL.31182	PL.32152	B	#1/0 ACSR	7.49Y	124.8	0.00	0.19	0.00	0	0	0	100	0.00	0.0	10.412	0.019	0	0	1	1
PL.31353	PL.32152	B	#4 ACSR	7.49Y	124.8	0.01	0.19	1.81	1	13	4	96	0.00	0.0	10.470	0.077	0	0	0	2
PL.31184	PL.31353	B	#4 ACSR	7.49Y	124.8	0.00	0.20	0.67	1	5	1	98	0.00	0.0	10.564	0.094	0	0	0	1
PL.31498	PL.31184	B	#4 ACSR	7.49Y	124.8	0.00	0.20	0.67	1	5	1	98	0.00	0.0	10.658	0.094	0	0	0	1
PL.31499	PL.31498	B	#4 ACSR	7.49Y	124.8	0.00	0.20	0.67	1	5	1	98	0.00	0.0	10.709	0.050	5	1	1	1
PL.31183	PL.31353	B	#2 ACSR	7.49Y	124.8	0.00	0.19	1.14	1	8	2	97	0.00	0.0	10.513	0.043	8	2	1	1
PL.31812	PL.31497	ABC	#1/0 ACSR	7.49Y	124.8	0.03	0.21	36.51	16	787	232	96	0.15	0.0	10.365	0.044	8	2	1	207
PL.31813	PL.31812	ABC	#1/0 ACSR	7.49Y	124.8	0.04	0.24	36.15	16	779	230	96	0.19	0.0	10.419	0.054	7	2	2	206
PL.31814	PL.31813	ABC	#1/0 ACSR	7.48Y	124.7	0.07	0.31	35.81	16	771	227	96	0.38	0.0	10.531	0.112	15	4	2	204
PL.31987	PL.31814	C	6 A (CWC)	7.48Y	124.7	0.00	0.31	0.92	1	7	2	96	0.00	0.0	10.536	0.005	0	0	0	5
PD.4297	PL.31987	C	40T	7.48Y	124.7	0.00	0.31	0.92	0	7	2	96	0.00	0.0	10.536	0.005	0	0	0	5
PL.31988	PD.4297	C	6 A (CWC)	7.48Y	124.7	0.00	0.32	0.92	1	7	2	96	0.00	0.0	10.583	0.048	7	2	4	5
PL.31804	PL.31988	C	6 A (CWC)	7.48Y	124.7	0.00	0.32	0.00	0	0	0	100	0.00	0.0	10.633	0.050	0	0	1	1
PL.31806	PL.31814	ABC	#1/0 ACSR	7.48Y	124.6	0.06	0.37	34.79	15	749	221	96	0.30	0.0	10.625	0.094	8	2	1	197
PL.31807	PL.31806	ABC	#1/0 ACSR	7.47Y	124.6	0.05	0.43	34.40	15	740	218	96	0.27	0.0	10.712	0.088	13	4	2	196
PL.31810	PL.31807	ABC	#1/0 ACSR	7.47Y	124.5	0.03	0.46	30.48	13	655	193	96	0.16	0.0	10.775	0.063	1	0	1	180
PL.31811	PL.31810	ABC	#1/0 ACSR	7.47Y	124.4	0.10	0.56	30.43	13	654	193	96	0.43	0.1	10.950	0.175	0	0	0	179
PL.31805	PL.31811	ABC	#1/0 ACSR	7.46Y	124.4	0.04	0.60	30.43	13	654	193	96	0.18	0.0	11.024	0.074	5	1	1	179
PL.31343	PL.31805	ABC	#1/0 ACSR	7.46Y	124.3	0.07	0.67	30.21	13	649	191	96	0.29	0.0	11.143	0.119	0	0	0	178
PL.31344	PL.31343	ABC	#1/0 ACSR	7.46Y	124.3	0.03	0.69	28.59	12	614	181	96	0.11	0.0	11.194	0.051	0	0	0	167
PL.31194	PL.31344	ABC	#1/0 ACSR	7.45Y	124.2	0.06	0.75	28.59	12	614	181	96	0.25	0.0	11.306	0.113	0	0	1	167
PL.31981	PL.31194	A	6 A (CWC)	7.45Y	124.2	0.00	0.75	1.49	1	11	3	96	0.00	0.0	11.311	0.005	0	0	0	2
PD.4294	PL.31981	A	40T	7.45Y	124.2	0.00	0.75	1.49	0	11	3	96	0.00	0.0	11.311	0.005	0	0	0	2
PL.31982	PD.4294	A	6 A (CWC)	7.45Y	124.2	0.00	0.75	1.49	1	11	3	96	0.00	0.0	11.372	0.061	11	3	1	2
PL.31203	PL.31982	A	#4 ACSR	7.45Y	124.2	0.00	0.75	0.00	0	0	0	100	0.00	0.0	11.459	0.087	0	0	1	1
PL.31345	PL.31194	ABC	#1/0 ACSR	7.45Y	124.2	0.04	0.79	28.07	12	602	177	96	0.17	0.0	11.387	0.081	0	0	0	164
PL.31979	PL.31345	C	6 A (CWC)	7.45Y	124.2	0.00	0.79	0.20	0	1	0	100	0.00	0.0	11.392	0.005	0	0	0	1
PD.4293	PL.31979	C	15T	7.45Y	124.2	0.00	0.79	0.20	0	1	0	100	0.00	0.0	11.392	0.005	0	0	0	1
PL.31980	PD.4293	C	6 A (CWC)	7.45Y	124.2	0.00	0.79	0.20	0	1	0	100	0.00	0.0	11.552	0.160	1	0	1	1
PL.31797	PL.31345	ABC	#1/0 ACSR	7.45Y	124.1	0.07	0.87	28.00	12	601	177	96	0.30	0.1	11.533	0.145	0	0	0	163

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31798	PL.31797	ABC	#1/0 ACSR	7.45Y	124.1	0.01	0.87	28.00	12	600	176	96	0.03	0.0	11.547	0.014	7	2	2	163
PL.32196	PL.31798	ABC	#1/0 ACSR	7.44Y	124.1	0.05	0.93	26.20	11	562	165	96	0.20	0.0	11.658	0.111	0	0	0	158
PL.32197	PL.32196	ABC	#1/0 ACSR	7.44Y	124.0	0.03	0.95	26.20	11	561	165	96	0.10	0.0	11.715	0.057	1	0	2	158
PL.31802	PL.32197	ABC	#1/0 ACSR	7.44Y	124.0	0.03	0.99	25.73	11	551	162	96	0.13	0.0	11.787	0.072	0	0	1	155
PL.31803	PL.31802	ABC	#1/0 ACSR	7.44Y	124.0	0.05	1.03	25.72	11	551	162	96	0.17	0.0	11.884	0.098	0	0	0	154
PL.31346	PL.31803	ABC	#1/0 ACSR	7.44Y	123.9	0.05	1.08	25.24	11	540	159	96	0.17	0.0	11.986	0.102	0	0	0	153
PL.31799	PL.31346	ABC	#1/0 ACSR	7.43Y	123.9	0.02	1.10	25.22	11	540	158	96	0.06	0.0	12.024	0.038	4	1	1	152
PL.31800	PL.31799	ABC	#1/0 ACSR	7.43Y	123.9	0.04	1.14	25.01	11	535	157	96	0.15	0.0	12.118	0.094	9	2	2	151
PL.31801	PL.31800	ABC	#1/0 ACSR	7.43Y	123.8	0.04	1.18	24.61	11	526	154	96	0.13	0.0	12.201	0.084	3	1	1	149
PL.31796	PL.31801	ABC	#1/0 ACSR	7.42Y	123.7	0.08	1.25	24.47	11	523	154	96	0.27	0.1	12.370	0.169	0	0	0	148
PL.31967	PL.31796	A	#4 ACSR	7.42Y	123.7	0.00	1.25	0.17	0	1	0	100	0.00	0.0	12.375	0.005	0	0	0	2
PD.4287	PL.31967	A	40T	7.42Y	123.7	0.00	1.25	0.17	0	1	0	100	0.00	0.0	12.375	0.005	0	0	0	2
PL.31968	PD.4287	A	#4 ACSR	7.42Y	123.7	0.00	1.25	0.17	0	1	0	100	0.00	0.0	12.426	0.052	1	0	2	2
PL.31347	PL.31796	ABC	#1/0 ACSR	7.42Y	123.7	0.05	1.30	24.42	11	522	153	96	0.19	0.0	12.490	0.119	2	0	1	146
PL.31969	PL.31347	A	#2 ACSR	7.42Y	123.7	0.00	1.30	0.95	1	7	2	96	0.00	0.0	12.494	0.005	0	0	0	2
PD.4288	PL.31969	A	40T	7.42Y	123.7	0.00	1.30	0.95	0	7	2	96	0.00	0.0	12.494	0.005	0	0	0	2
PL.31970	PD.4288	A	#2 ACSR	7.42Y	123.7	0.00	1.31	0.95	1	7	2	96	0.00	0.0	12.555	0.061	7	2	2	2
PL.31786	PL.31347	ABC	#1/0 ACSR	7.42Y	123.6	0.05	1.35	24.03	10	513	150	96	0.16	0.0	12.597	0.108	12	3	1	143
PL.31787	PL.31786	ABC	#1/0 ACSR	7.42Y	123.6	0.07	1.42	23.48	10	501	147	96	0.22	0.0	12.751	0.154	4	1	1	142
PL.31965	PL.31787	A	#4 ACSR	7.42Y	123.6	0.00	1.42	0.80	1	6	2	95	0.00	0.0	12.755	0.005	0	0	0	2
PD.4286	PL.31965	A	40T	7.42Y	123.6	0.00	1.42	0.80	0	6	2	95	0.00	0.0	12.755	0.005	0	0	0	2
PL.31966	PD.4286	A	#4 ACSR	7.41Y	123.6	0.00	1.42	0.80	1	6	2	95	0.00	0.0	12.806	0.050	6	2	2	2
PL.32157	PL.31787	C	#4 ACSR	7.42Y	123.6	0.00	1.42	0.00	0	0	0	100	0.00	0.0	12.755	0.005	0	0	0	1
PD.4385	PL.32157	C	40T	7.42Y	123.6	0.00	1.42	0.00	0	0	0	100	0.00	0.0	12.755	0.005	0	0	0	1
PL.32158	PD.4385	C	#4 ACSR	7.42Y	123.6	0.00	1.42	0.00	0	0	0	100	0.00	0.0	12.831	0.075	0	0	1	1
PL.31784	PL.31787	ABC	#1/0 ACSR	7.41Y	123.5	0.07	1.48	23.01	10	491	144	96	0.23	0.0	12.914	0.163	13	4	1	138
PL.31785	PL.31784	ABC	#1/0 ACSR	7.41Y	123.5	0.06	1.54	22.39	10	478	140	96	0.18	0.0	13.052	0.138	0	0	0	137
PL.31506	PL.31785	ABC	#1/0 ACSR	7.41Y	123.4	0.03	1.57	22.39	10	478	140	96	0.10	0.0	13.125	0.073	0	0	0	137
PL.31348	PL.31506	ABC	#1/0 ACSR	7.40Y	123.4	0.05	1.62	21.93	10	468	137	96	0.16	0.0	13.249	0.125	5	1	1	136
PL.31782	PL.31348	ABC	#1/0 ACSR	7.40Y	123.3	0.03	1.65	20.41	9	435	127	96	0.10	0.0	13.336	0.087	4	1	1	129
PL.31783	PL.31782	ABC	#1/0 ACSR	7.40Y	123.3	0.02	1.67	20.23	9	431	126	96	0.07	0.0	13.402	0.065	0	0	0	128

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31722	PL.31783	C	#4 ACSR	7.40Y	123.3	0.00	1.68	2.07	2	15	4	97	0.00	0.0	13.406	0.005	0	0	0	6
PD.4280	PL.31722	C	40T	7.40Y	123.3	0.00	1.68	2.07	0	15	4	97	0.00	0.0	13.406	0.005	0	0	0	6
PL.31723	PD.4280	C	#4 ACSR	7.40Y	123.3	0.00	1.68	0.71	1	5	1	98	0.00	0.0	13.480	0.073	5	1	1	1
PL.31214	PD.4280	C	6 A (CWC)	7.40Y	123.3	0.00	1.68	0.00	0	0	0	100	0.00	0.0	13.523	0.117	0	0	0	0
PL.31213	PD.4280	C	#1/0 ACSR	7.40Y	123.3	0.00	1.68	1.37	1	10	3	96	0.00	0.0	13.448	0.041	10	3	5	5
PL.31776	PL.31783	ABC	#1/0 ACSR	7.40Y	123.3	0.04	1.72	19.54	8	416	122	96	0.13	0.0	13.527	0.125	2	0	1	122
PL.31777	PL.31776	ABC	#1/0 ACSR	7.40Y	123.3	0.01	1.73	19.47	8	415	121	96	0.04	0.0	13.565	0.038	0	0	1	121
PL.31778	PL.31777	ABC	#1/0 ACSR	7.39Y	123.2	0.03	1.76	19.47	8	415	121	96	0.09	0.0	13.656	0.091	0	0	0	120
PL.31507	PL.31778	ABC	#1/0 ACSR	7.39Y	123.2	0.04	1.80	19.47	8	415	121	96	0.10	0.0	13.757	0.101	0	0	0	120
PL.31508	PL.31507	ABC	#1/0 ACSR	7.39Y	123.2	0.02	1.82	19.47	8	414	121	96	0.06	0.0	13.817	0.059	0	0	0	120
PL.31216	PL.31508	B	#2 ACSR	7.39Y	123.2	0.01	1.83	16.60	9	118	34	96	0.01	0.0	13.839	0.022	0	0	0	37
PL.32185	PL.31216	B	6 A (CWC)	7.39Y	123.2	0.00	1.84	16.60	12	118	34	96	0.00	0.0	13.842	0.003	0	0	0	37
PD.4399	PL.32185	B	35L	7.39Y	123.2	0.00	1.84	16.60	47	118	34	96	0.00	0.0	13.842	0.003	0	0	0	37
PL.32186	PD.4399	B	6 A (CWC)	7.39Y	123.1	0.04	1.87	16.60	12	118	34	96	0.03	0.0	13.890	0.048	1	0	1	37
PL.31217	PL.32186	B	#1/0 ACSR	7.39Y	123.1	0.00	1.87	1.18	1	8	2	97	0.00	0.0	13.928	0.038	8	2	1	1
PL.31780	PL.32186	B	6 A (CWC)	7.39Y	123.1	0.02	1.89	15.30	11	109	31	96	0.02	0.0	13.917	0.028	0	0	1	35
PL.31781	PL.31780	B	6 A (CWC)	7.38Y	123.1	0.05	1.94	15.30	11	109	31	96	0.04	0.0	13.985	0.068	0	0	0	34
PL.31779	PL.31781	B	6 A (CWC)	7.38Y	123.0	0.07	2.01	15.30	11	109	31	96	0.06	0.1	14.089	0.104	0	0	0	34
PL.31218	PL.31779	B	#4 ACSR	7.38Y	123.0	0.04	2.05	15.30	12	109	31	96	0.03	0.0	14.141	0.052	0	0	0	34
PL.31219	PL.31218	B	#4 ACSR	7.38Y	122.9	0.02	2.07	15.30	12	109	31	96	0.02	0.0	14.177	0.035	0	0	0	34
PL.31220	PL.31219	B	#4 ACSR	7.37Y	122.9	0.04	2.11	7.84	6	56	16	96	0.02	0.0	14.299	0.122	0	0	0	19
PL.31512	PL.31220	B	#4 ACSR	7.37Y	122.8	0.06	2.17	7.84	6	56	16	96	0.02	0.0	14.458	0.159	0	0	0	19
PL.31513	PL.31512	B	#4 ACSR	7.37Y	122.8	0.05	2.22	7.84	6	55	16	96	0.02	0.0	14.596	0.138	0	0	1	19
PL.31227	PL.31513	B	#4 ACSR	7.37Y	122.8	0.02	2.24	6.47	5	46	13	96	0.01	0.0	14.681	0.085	8	2	1	17
PL.31961	PL.31227	B	#4 ACSR	7.37Y	122.8	0.00	2.24	1.14	1	8	2	97	0.00	0.0	14.685	0.005	0	0	0	3
PD.4284	PL.31961	B	15T	7.37Y	122.8	0.00	2.24	1.14	0	8	2	97	0.00	0.0	14.685	0.005	0	0	0	3
PL.31962	PD.4284	B	#4 ACSR	7.37Y	122.8	0.00	2.24	1.14	1	8	2	97	0.00	0.0	14.741	0.056	6	2	2	3
PL.31229	PL.31962	B	#4 ACSR	7.37Y	122.8	0.00	2.24	0.23	0	2	0	100	0.00	0.0	14.778	0.036	0	0	0	1
PL.31573	PL.31229	B	#2 ACSR	7.37Y	122.8	0.00	2.24	0.23	0	2	0	100	0.00	0.0	14.863	0.085	0	0	0	1
PL.31572	PL.31573	B	#4 ACSR	7.37Y	122.8	0.00	2.24	0.23	0	2	0	100	0.00	0.0	14.917	0.054	0	0	0	1
PL.31518	PL.31572	B	#4 ACSR	7.37Y	122.8	0.00	2.25	0.23	0	2	0	100	0.00	0.0	15.069	0.152	0	0	0	1

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31230	PL.31518	B	#2 ACSR	7.37Y	122.8	0.00	2.25	0.23	0	2	0	100	0.00	0.0	15.109	0.039	2	0	1	1
PL.31228	PL.31227	B	#4 ACSR	7.36Y	122.7	0.03	2.27	4.26	3	30	9	96	0.01	0.0	14.816	0.135	0	0	0	13
PL.31519	PL.31228	B	#4 ACSR	7.36Y	122.7	0.02	2.29	4.26	3	30	9	96	0.01	0.0	14.940	0.124	0	0	0	13
PL.31521	PL.31519	B	#4 ACSR	7.36Y	122.7	0.02	2.31	4.26	3	30	9	96	0.00	0.0	15.029	0.089	0	0	0	13
PL.31520	PL.31521	B	#4 ACSR	7.36Y	122.7	0.02	2.32	4.26	3	30	9	96	0.00	0.0	15.119	0.090	0	0	0	13
PL.30523	PL.31520	B	#4 ACSR	7.36Y	122.7	0.02	2.34	4.25	3	30	9	96	0.00	0.0	15.224	0.105	0	0	0	12
PL.31578	PL.30523	B	#4 ACSR	7.36Y	122.6	0.02	2.37	4.25	3	30	9	96	0.00	0.0	15.332	0.108	0	0	0	12
PL.31522	PL.31578	B	#4 ACSR	7.36Y	122.6	0.02	2.39	4.25	3	30	9	96	0.00	0.0	15.444	0.112	0	0	0	12
PL.31523	PL.31522	B	#4 ACSR	7.36Y	122.6	0.02	2.41	4.25	3	30	9	96	0.00	0.0	15.549	0.105	0	0	0	12
PL.31232	PL.31523	B	#4 ACSR	7.35Y	122.6	0.03	2.43	4.25	3	30	9	96	0.01	0.0	15.696	0.147	0	0	0	12
PL.31233	PL.31232	B	#4 ACSR	7.35Y	122.5	0.02	2.45	4.25	3	30	9	96	0.00	0.0	15.791	0.095	0	0	0	12
PL.31525	PL.31233	B	#4 ACSR	7.35Y	122.5	0.02	2.47	4.25	3	30	9	96	0.00	0.0	15.886	0.095	0	0	0	12
PL.31524	PL.31525	B	#4 ACSR	7.35Y	122.5	0.05	2.52	4.25	3	30	9	96	0.01	0.0	16.152	0.266	0	0	0	12
PL.31526	PL.31524	B	#4 ACSR	7.35Y	122.5	0.00	2.53	4.25	3	30	9	96	0.00	0.0	16.177	0.025	0	0	0	12
PL.31527	PL.31526	B	#4 ACSR	7.35Y	122.4	0.04	2.57	4.25	3	30	9	96	0.01	0.0	16.408	0.231	0	0	0	12
PL.31234	PL.31527	B	#4 ACSR	7.34Y	122.4	0.02	2.59	4.25	3	30	9	96	0.01	0.0	16.529	0.121	0	0	0	12
PL.31917	PL.31234	B	#4 ACSR	7.34Y	122.4	0.02	2.61	4.25	3	30	9	96	0.01	0.0	16.645	0.117	0	0	0	12
PL.31918	PL.31917	B	#4 ACSR	7.34Y	122.4	0.02	2.63	4.25	3	30	9	96	0.00	0.0	16.740	0.095	0	0	0	12
PL.31235	PL.31918	B	#4 ACSR	7.34Y	122.4	0.01	2.64	4.11	3	29	8	96	0.00	0.0	16.785	0.045	0	0	0	11
PL.31528	PL.31235	B	#4 ACSR	7.34Y	122.3	0.05	2.69	4.11	3	29	8	96	0.01	0.0	17.034	0.248	0	0	0	11
PL.31915	PL.31528	B	#4 ACSR	7.34Y	122.3	0.02	2.71	4.11	3	29	8	96	0.01	0.0	17.169	0.135	0	0	1	11
PL.31916	PL.31915	B	#4 ACSR	7.34Y	122.3	0.03	2.74	4.11	3	29	8	96	0.01	0.0	17.334	0.165	0	0	0	10
PL.31236	PL.31916	B	#4 ACSR	7.34Y	122.3	0.00	2.74	0.00	0	0	0	100	0.00	0.0	17.429	0.095	0	0	1	1
PL.31237	PL.31916	B	#4 ACSR	7.33Y	122.2	0.04	2.78	4.11	3	29	8	96	0.01	0.0	17.545	0.211	0	0	0	9
PL.31529	PL.31237	B	#4 ACSR	7.33Y	122.2	0.03	2.81	4.11	3	29	8	96	0.01	0.0	17.709	0.164	0	0	0	9
PL.31530	PL.31529	B	#4 ACSR	7.33Y	122.2	0.03	2.84	4.11	3	29	8	96	0.01	0.0	17.873	0.164	0	0	0	9
PL.31531	PL.31530	B	#4 ACSR	7.33Y	122.1	0.03	2.87	4.11	3	29	8	96	0.01	0.0	18.055	0.181	0	0	0	9
PL.31532	PL.31531	B	#4 ACSR	7.33Y	122.1	0.02	2.89	4.11	3	29	8	96	0.00	0.0	18.166	0.111	0	0	1	9
PL.31238	PL.31532	B	#4 ACSR	7.32Y	122.1	0.03	2.92	4.10	3	29	8	96	0.01	0.0	18.306	0.140	0	0	0	7
PL.31533	PL.31238	B	#4 ACSR	7.32Y	122.0	0.03	2.95	4.10	3	29	8	96	0.01	0.0	18.491	0.185	0	0	0	7
PL.31908	PL.31533	B	#4 ACSR	7.32Y	122.0	0.01	2.97	4.10	3	29	8	96	0.00	0.0	18.578	0.087	8	2	3	7

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31909	PL.31908	B	#4 ACSR	7.32Y	122.0	0.02	2.98	2.97	2	21	6	96	0.00	0.0	18.692	0.114	0	0	0	4
PL.31534	PL.31909	B	#4 ACSR	7.32Y	122.0	0.01	3.00	2.97	2	21	6	96	0.00	0.0	18.784	0.092	0	0	0	4
PL.31714	PL.31534	B	#4 ACSR	7.32Y	122.0	0.01	3.01	2.97	2	21	6	96	0.00	0.0	18.884	0.100	0	0	0	4
PL.31535	PL.31714	B	#4 ACSR	7.32Y	122.0	0.02	3.02	2.97	2	21	6	96	0.00	0.0	19.008	0.124	0	0	0	4
PL.31536	PL.31535	B	#4 ACSR	7.32Y	122.0	0.02	3.04	2.97	2	21	6	96	0.00	0.0	19.157	0.149	0	0	0	4
PL.31910	PL.31536	B	#4 ACSR	7.32Y	121.9	0.01	3.05	2.97	2	21	6	96	0.00	0.0	19.230	0.072	7	2	1	4
PL.31911	PL.31910	B	#4 ACSR	7.32Y	121.9	0.01	3.06	1.97	2	14	4	96	0.00	0.0	19.337	0.107	0	0	1	3
PL.31912	PL.31911	B	#4 ACSR	7.32Y	121.9	0.01	3.07	1.97	2	14	4	96	0.00	0.0	19.442	0.105	7	2	1	2
PL.31913	PL.31912	B	#4 ACSR	7.32Y	121.9	0.01	3.08	1.01	1	7	2	96	0.00	0.0	19.630	0.188	0	0	0	1
PL.31914	PL.31913	B	#4 ACSR	7.32Y	121.9	0.01	3.08	1.01	1	7	2	96	0.00	0.0	19.754	0.125	0	0	0	1
PL.31537	PL.31914	B	#4 ACSR	7.31Y	121.9	0.01	3.09	1.01	1	7	2	96	0.00	0.0	19.925	0.170	0	0	0	1
PL.31240	PL.31537	B	#4 ACSR	7.31Y	121.9	0.00	3.09	1.01	1	7	2	96	0.00	0.0	19.966	0.041	7	2	1	1
PL.31239	PL.31532	B	#2 ACSR	7.33Y	122.1	0.00	2.89	0.00	0	0	0	100	0.00	0.0	18.297	0.131	0	0	1	1
PL.30524	PL.31918	B	#4 ACSR	7.34Y	122.4	0.00	2.63	0.14	0	1	0	100	0.00	0.0	16.820	0.079	1	0	1	1
PL.31231	PL.31520	B	#2 ACSR	7.36Y	122.7	0.00	2.32	0.01	0	0	0	100	0.00	0.0	15.137	0.018	0	0	1	1
PL.31959	PL.31513	B	#4 ACSR	7.37Y	122.8	0.00	2.22	1.33	1	9	3	95	0.00	0.0	14.600	0.005	0	0	0	1
PD.4283	PL.31959	B	15T	7.37Y	122.8	0.00	2.22	1.33	0	9	3	95	0.00	0.0	14.600	0.005	0	0	0	1
PL.31960	PD.4283	B	#4 ACSR	7.37Y	122.8	0.01	2.23	1.33	1	9	3	95	0.00	0.0	14.720	0.120	0	0	0	1
PL.31514	PL.31960	B	#4 ACSR	7.37Y	122.8	0.01	2.24	1.33	1	9	3	95	0.00	0.0	14.906	0.186	0	0	0	1
PL.31515	PL.31514	B	#4 ACSR	7.37Y	122.8	0.00	2.24	1.33	1	9	3	95	0.00	0.0	14.972	0.066	0	0	0	1
PL.31517	PL.31515	B	#4 ACSR	7.37Y	122.8	0.01	2.25	1.33	1	9	3	95	0.00	0.0	15.099	0.127	0	0	0	1
PL.31516	PL.31517	B	#4 ACSR	7.36Y	122.7	0.01	2.26	1.33	1	9	3	95	0.00	0.0	15.261	0.162	0	0	0	1
PL.31919	PL.31516	B	#4 ACSR	7.36Y	122.7	0.01	2.26	1.33	1	9	3	95	0.00	0.0	15.433	0.171	9	3	1	1
PL.31920	PL.31919	B	#4 ACSR	7.36Y	122.7	0.00	2.26	0.00	0	0	0	100	0.00	0.0	15.479	0.046	0	0	0	0
PL.30522	PL.31219	B	#4 ACSR	7.37Y	122.9	0.03	2.10	7.47	6	53	15	96	0.01	0.0	14.285	0.109	10	3	1	15
PL.31957	PL.30522	B	#4 ACSR	7.37Y	122.9	0.00	2.11	6.07	5	43	12	96	0.00	0.0	14.290	0.005	0	0	0	14
PD.4282	PL.31957	B	15T	7.37Y	122.9	0.00	2.11	6.07	0	43	12	96	0.00	0.0	14.290	0.005	0	0	0	14
PL.31958	PD.4282	B	#4 ACSR	7.37Y	122.9	0.02	2.12	6.07	5	43	12	96	0.01	0.0	14.360	0.070	2	1	1	14
PL.31221	PL.31958	B	6 A (CWC)	7.37Y	122.9	0.02	2.15	5.78	4	41	12	96	0.01	0.0	14.445	0.086	0	0	0	13
PL.31509	PL.31221	B	6 A (CWC)	7.37Y	122.8	0.03	2.17	5.78	4	41	12	96	0.01	0.0	14.551	0.106	8	2	3	13
PL.31955	PL.31509	B	#1/0 ACSR	7.37Y	122.8	0.00	2.17	1.47	1	10	3	96	0.00	0.0	14.556	0.005	0	0	0	3

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

Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.4279	PL.31955	B	10T	7.37Y	122.8	0.00	2.17	1.47	0	10	3	96	0.00	0.0	14.556	0.005	0	0	0	3
PL.31956	PD.4279	B	#1/0 ACSR	7.37Y	122.8	0.00	2.17	1.47	1	10	3	96	0.00	0.0	14.581	0.025	10	3	3	3
PL.31774	PL.31509	B	6 A (CWC)	7.37Y	122.8	0.02	2.20	3.24	2	23	7	96	0.00	0.0	14.712	0.161	0	0	0	7
PL.31775	PL.31774	B	6 A (CWC)	7.37Y	122.8	0.01	2.21	3.24	2	23	7	96	0.00	0.0	14.827	0.114	6	2	1	7
PL.31773	PL.31775	B	6 A (CWC)	7.37Y	122.8	0.01	2.22	2.39	2	17	5	96	0.00	0.0	14.895	0.068	0	0	1	6
PL.31772	PL.31773	B	6 A (CWC)	7.37Y	122.8	0.00	2.22	2.35	2	17	5	96	0.00	0.0	14.947	0.052	7	2	1	5
PL.31771	PL.31772	B	6 A (CWC)	7.37Y	122.8	0.00	2.23	1.32	1	9	3	95	0.00	0.0	14.992	0.046	0	0	0	4
PL.31222	PL.31771	B	6 A (CWC)	7.37Y	122.8	0.01	2.24	1.32	1	9	3	95	0.00	0.0	15.183	0.191	0	0	0	4
PL.31223	PL.31222	B	6 A (CWC)	7.37Y	122.8	0.01	2.24	1.32	1	9	3	95	0.00	0.0	15.287	0.104	0	0	1	4
PL.31752	PL.31223	B	#4 ACSR	7.37Y	122.8	0.00	2.25	1.29	1	9	3	95	0.00	0.0	15.320	0.033	5	1	2	3
PL.31947	PL.31752	B	#4 ACSR	7.37Y	122.8	0.00	2.25	0.56	0	4	1	97	0.00	0.0	15.324	0.005	0	0	0	1
PD.4275	PL.31947	B	10T	7.37Y	122.8	0.00	2.25	0.56	0	4	1	97	0.00	0.0	15.324	0.005	0	0	0	1
PL.31948	PD.4275	B	#4 ACSR	7.37Y	122.8	0.00	2.25	0.56	0	4	1	97	0.00	0.0	15.415	0.091	4	1	1	1
PL.32200	PL.31508	A C	#1/0 ACSR	7.39Y	123.2	0.01	1.83	20.90	9	296	87	96	0.02	0.0	13.841	0.024	0	0	0	83
RG.33	PL.32200	A C	76.2 KVA	7.48Y	124.7	-1.56	0.27	20.90	21	296	87	96	percent Boost= 1.25 Tap= 2.0							83
PL.32201	RG.33	A C	#1/0 ACSR	7.48Y	124.7	0.01	0.28	20.64	9	296	87	96	0.01	0.0	13.858	0.017	0	0	0	83
PD.4400	PL.32201	A C	70L	7.48Y	124.7	0.00	0.28	20.64	29	296	87	96	0.00	0.0	13.858	0.017	0	0	0	83
PL.32187	PD.4400	A C	#1/0 ACSR	7.48Y	124.7	0.02	0.31	20.64	9	296	87	96	0.05	0.0	13.913	0.055	0	0	1	83
PL.31242	PL.32187	A C	#1/0 ACSR	7.48Y	124.7	0.04	0.34	20.64	9	296	87	96	0.07	0.0	13.998	0.085	0	0	0	82
PL.31352	PL.31242	A C	#1/0 ACSR	7.48Y	124.6	0.03	0.37	20.27	9	291	85	96	0.06	0.0	14.068	0.070	2	0	1	80
PL.32103	PL.31352	C	#4 ACSR	7.48Y	124.6	0.00	0.37	0.08	0	1	0	100	0.00	0.0	14.072	0.004	0	0	0	4
PD.4357	PL.32103	C	30T	7.48Y	124.6	0.00	0.37	0.08	0	1	0	100	0.00	0.0	14.072	0.004	0	0	0	4
PL.32104	PD.4357	C	#4 ACSR	7.48Y	124.6	0.00	0.37	0.08	0	1	0	100	0.00	0.0	14.136	0.063	0	0	2	4
PL.31907	PL.32104	C	#4 ACSR	7.48Y	124.6	0.00	0.37	0.07	0	0	0	100	0.00	0.0	14.172	0.037	0	0	1	2
PL.31906	PL.31907	C	#4 ACSR	7.48Y	124.6	0.00	0.37	0.04	0	0	0	100	0.00	0.0	14.289	0.116	0	0	1	1
PL.31904	PL.31352	A C	#1/0 ACSR	7.47Y	124.6	0.06	0.43	20.13	9	289	85	96	0.11	0.0	14.204	0.136	12	4	3	75
PL.31905	PL.31904	A C	#1/0 ACSR	7.47Y	124.5	0.05	0.48	19.26	8	276	81	96	0.08	0.0	14.318	0.114	2	1	2	72
PL.31903	PL.31905	A C	#1/0 ACSR	7.47Y	124.5	0.02	0.50	19.13	8	274	80	96	0.04	0.0	14.366	0.048	0	0	0	70
PL.30513	PL.31903	A C	#1/0 ACSR	7.47Y	124.5	0.01	0.51	19.13	8	274	80	96	0.02	0.0	14.388	0.022	0	0	0	69
PL.31901	PL.30513	A C	#1/0 ACSR	7.47Y	124.4	0.05	0.56	19.13	8	274	80	96	0.09	0.0	14.521	0.133	11	3	1	69
PL.31902	PL.31901	A C	#1/0 ACSR	7.47Y	124.4	0.02	0.58	18.36	8	263	77	96	0.04	0.0	14.577	0.057	16	5	3	68

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31900	PL.31902	A C	#1/0 ACSR	7.46Y	124.4	0.05	0.63	17.23	7	247	72	96	0.08	0.0	14.713	0.136	2	1	1	65
PL.32183	PL.31900	A C	#1/0 ACSR	7.46Y	124.4	0.00	0.63	17.07	7	245	71	96	0.00	0.0	14.718	0.005	0	0	0	64
PD.4398-A	PL.32183	A C	Closed	7.46Y	124.4	0.00	0.63	17.07	0	245	71	96	0.00	0.0	14.718	0.005	0	0	0	64
PD.4398-B	PD.4398-A	A C	Closed	7.46Y	124.4	0.00	0.63	17.07	0	245	71	96	0.00	0.0	14.718	0.005	0	0	0	64
PL.32184	PD.4398-B	A C	#1/0 ACSR	7.46Y	124.3	0.06	0.69	17.07	7	245	71	96	0.09	0.0	14.869	0.152	0	0	0	64
PL.31540	PL.32184	A C	#1/0 ACSR	7.46Y	124.3	0.04	0.72	17.07	7	244	71	96	0.06	0.0	14.974	0.105	0	0	0	64
PL.31577	PL.31540	A C	#1/0 ACSR	7.45Y	124.2	0.03	0.76	17.07	7	244	71	96	0.05	0.0	15.066	0.092	0	0	0	64
PL.31245	PL.31577	C	6 A (CWC)	7.45Y	124.2	0.00	0.76	1.31	1	9	3	95	0.00	0.0	15.094	0.028	0	0	0	3
PL.30514	PL.31245	C	6 A (CWC)	7.45Y	124.2	0.00	0.76	0.02	0	0	0	100	0.00	0.0	15.219	0.125	0	0	0	1
PL.31247	PL.30514	C	#4 ACSR	7.45Y	124.2	0.00	0.76	0.02	0	0	0	100	0.00	0.0	15.289	0.070	0	0	1	1
PL.31244	PL.31245	C	6 A (CWC)	7.45Y	124.2	0.01	0.77	1.28	1	9	3	95	0.00	0.0	15.182	0.088	0	0	0	2
PL.31899	PL.31244	C	#2 ACSR	7.45Y	124.2	0.00	0.77	1.28	1	9	3	95	0.00	0.0	15.214	0.031	5	2	1	2
PL.31898	PL.31899	C	#2 ACSR	7.45Y	124.2	0.00	0.77	0.53	0	4	1	97	0.00	0.0	15.243	0.029	4	1	1	1
PL.31246	PL.31577	A C	#1/0 ACSR	7.45Y	124.2	0.03	0.78	16.42	7	235	69	96	0.04	0.0	15.140	0.074	0	0	0	61
PL.31541	PL.31246	A C	#1/0 ACSR	7.45Y	124.2	0.04	0.83	16.42	7	235	69	96	0.07	0.0	15.263	0.123	0	0	0	61
PL.31543	PL.31541	A C	#1/0 ACSR	7.45Y	124.1	0.04	0.87	16.42	7	235	68	96	0.06	0.0	15.373	0.110	0	0	0	61
PL.31542	PL.31543	A C	#1/0 ACSR	7.44Y	124.1	0.06	0.92	16.42	7	235	68	96	0.09	0.0	15.536	0.164	0	0	0	61
PL.31544	PL.31542	A C	#1/0 ACSR	7.44Y	124.1	0.02	0.94	16.42	7	235	68	96	0.02	0.0	15.579	0.043	0	0	0	61
PL.31248	PL.31544	A C	#1/0 ACSR	7.44Y	124.0	0.02	0.96	16.42	7	235	68	96	0.03	0.0	15.643	0.063	3	1	1	61
PL.31896	PL.31248	A C	#1/0 ACSR	7.44Y	124.0	0.05	1.01	16.18	7	231	67	96	0.08	0.0	15.804	0.161	11	3	1	60
PL.31897	PL.31896	A C	#1/0 ACSR	7.44Y	124.0	0.02	1.04	15.43	7	221	64	96	0.03	0.0	15.866	0.062	0	0	0	59
PL.32181	PL.31897	A C	#1/0 ACSR	7.44Y	124.0	0.00	1.04	15.43	7	220	64	96	0.00	0.0	15.871	0.005	0	0	0	59
PD.4397-A	PL.32181	A C	Closed	7.44Y	124.0	0.00	1.04	15.43	0	220	64	96	0.00	0.0	15.871	0.005	0	0	0	59
PD.4397-B	PD.4397-A	A C	Closed	7.44Y	124.0	0.00	1.04	15.43	0	220	64	96	0.00	0.0	15.871	0.005	0	0	0	59
PL.32182	PD.4397-B	A C	#1/0 ACSR	7.44Y	123.9	0.05	1.08	15.43	7	220	64	96	0.07	0.0	16.009	0.138	0	0	0	59
PL.31546	PL.32182	A C	#1/0 ACSR	7.43Y	123.9	0.02	1.11	15.43	7	220	64	96	0.04	0.0	16.084	0.075	0	0	0	59
PL.31545	PL.31546	A C	#1/0 ACSR	7.43Y	123.8	0.05	1.16	15.43	7	220	64	96	0.08	0.0	16.246	0.162	0	0	0	59
PL.31547	PL.31545	A C	#1/0 ACSR	7.43Y	123.8	0.04	1.20	15.43	7	220	64	96	0.06	0.0	16.368	0.123	0	0	0	59
PL.31548	PL.31547	A C	#1/0 ACSR	7.43Y	123.8	0.02	1.22	15.43	7	220	64	96	0.03	0.0	16.428	0.060	0	0	0	59
PL.31249	PL.31548	A C	#1/0 ACSR	7.43Y	123.8	0.03	1.25	15.43	7	220	64	96	0.04	0.0	16.514	0.086	0	0	0	59
PL.31549	PL.31249	A C	#1/0 ACSR	7.42Y	123.7	0.06	1.31	15.43	7	220	64	96	0.08	0.0	16.688	0.174	0	0	0	59

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31894	PL.31549	A C	#1/0 ACSR	7.42Y	123.7	0.04	1.34	15.43	7	220	64	96	0.06	0.0	16.808	0.120	3	1	1	59
PL.31895	PL.31894	A C	#1/0 ACSR	7.42Y	123.6	0.01	1.35	15.24	7	217	63	96	0.01	0.0	16.836	0.029	0	0	0	58
PL.32160	PL.31895	C	#1/0 ACSR	7.42Y	123.6	0.00	1.35	3.27	1	23	7	96	0.00	0.0	16.841	0.005	0	0	0	8
PD.4386	PL.32160	C	30T	7.42Y	123.6	0.00	1.35	3.27	0	23	7	96	0.00	0.0	16.841	0.005	0	0	0	8
PL.32159	PD.4386	C	#1/0 ACSR	7.42Y	123.6	0.01	1.37	3.27	1	23	7	96	0.00	0.0	16.999	0.158	0	0	0	8
PL.31250	PL.32159	C	#1/0 ACSR	7.42Y	123.6	0.02	1.38	3.27	1	23	7	96	0.00	0.0	17.237	0.238	0	0	0	8
PL.31880	PL.31250	C	#1/0 ACSR	7.42Y	123.6	0.01	1.39	3.27	1	23	7	96	0.00	0.0	17.338	0.101	0	0	1	8
PL.32177	PL.31880	C	#1/0 ACSR	7.42Y	123.6	0.00	1.39	3.21	1	23	7	96	0.00	0.0	17.342	0.005	0	0	0	7
PD.4395-A	PL.32177	C	Closed	7.42Y	123.6	0.00	1.39	3.21	0	23	7	96	0.00	0.0	17.342	0.005	0	0	0	7
PD.4395-B	PD.4395-A	C	Closed	7.42Y	123.6	0.00	1.39	3.21	0	23	7	96	0.00	0.0	17.342	0.005	0	0	0	7
PL.32178	PD.4395-B	C	#1/0 ACSR	7.42Y	123.6	0.01	1.40	3.21	1	23	7	96	0.00	0.0	17.458	0.116	0	0	0	7
PL.31879	PL.32178	C	#1/0 ACSR	7.42Y	123.6	0.00	1.40	3.21	1	23	7	96	0.00	0.0	17.490	0.032	0	0	0	7
PL.31207	PL.31879	C	#1/0 ACSR	7.42Y	123.6	0.01	1.42	3.21	1	23	7	96	0.00	0.0	17.663	0.173	0	0	0	7
PL.32175	PL.31207	C	#4 ACSR	7.41Y	123.6	0.00	1.42	3.21	2	23	7	96	0.00	0.0	17.668	0.005	0	0	0	7
PD.4394-A	PL.32175	C	Closed	7.41Y	123.6	0.00	1.42	3.21	0	23	7	96	0.00	0.0	17.668	0.005	0	0	0	7
PD.4394-B	PD.4394-A	C	Closed	7.41Y	123.6	0.00	1.42	3.21	0	23	7	96	0.00	0.0	17.668	0.005	0	0	0	7
PL.32176	PD.4394-B	C	#4 ACSR	7.41Y	123.6	0.02	1.44	3.21	2	23	7	96	0.00	0.0	17.821	0.153	0	0	0	7
PL.31550	PL.32176	C	#4 ACSR	7.41Y	123.5	0.01	1.45	3.21	2	23	7	96	0.00	0.0	17.899	0.078	0	0	0	7
PL.32173	PL.31550	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.16	0	1	0	100	0.00	0.0	17.903	0.005	0	0	0	2
PD.4393-A	PL.32173	C	Closed	7.41Y	123.5	0.00	1.45	0.16	0	1	0	100	0.00	0.0	17.903	0.005	0	0	0	2
PD.4393-B	PD.4393-A	C	Closed	7.41Y	123.5	0.00	1.45	0.16	0	1	0	100	0.00	0.0	17.903	0.005	0	0	0	2
PL.32174	PD.4393-B	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.16	0	1	0	100	0.00	0.0	18.002	0.099	0	0	0	2
PL.31551	PL.32174	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.16	0	1	0	100	0.00	0.0	18.170	0.167	0	0	0	2
PL.31552	PL.31551	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.16	0	1	0	100	0.00	0.0	18.283	0.114	0	0	0	2
PL.31716	PL.31552	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.16	0	1	0	100	0.00	0.0	18.373	0.089	0	0	0	2
PL.31553	PL.31716	C	#4 ACSR	7.41Y	123.5	0.00	1.45	0.16	0	1	0	100	0.00	0.0	18.447	0.074	1	0	2	2
PL.32155	PL.31550	C	#2 ACSR	7.41Y	123.5	0.00	1.45	3.04	2	22	6	96	0.00	0.0	17.903	0.005	0	0	0	5
PD.4384	PL.32155	C	20T	7.41Y	123.5	0.00	1.45	3.04	0	22	6	96	0.00	0.0	17.903	0.005	0	0	0	5
PL.32156	PD.4384	C	#2 ACSR	7.41Y	123.5	0.01	1.46	3.04	2	22	6	96	0.00	0.0	17.981	0.077	0	0	0	5
PL.31715	PL.32156	C	#2 ACSR	7.41Y	123.5	0.01	1.47	3.04	2	22	6	96	0.00	0.0	18.100	0.119	0	0	0	5
PL.31554	PL.31715	C	#2 ACSR	7.41Y	123.5	0.01	1.48	3.04	2	22	6	96	0.00	0.0	18.244	0.144	0	0	0	5

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

Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31555	PL.31554	C	#2 ACSR	7.41Y	123.5	0.01	1.49	3.04	2	22	6	96	0.00	0.0	18.361	0.117	0	0	0	5
PL.31556	PL.31555	C	#2 ACSR	7.41Y	123.5	0.02	1.51	3.04	2	22	6	96	0.00	0.0	18.545	0.185	0	0	0	5
PL.31877	PL.31556	C	#2 ACSR	7.41Y	123.5	0.01	1.52	3.04	2	22	6	96	0.00	0.0	18.614	0.069	0	0	1	5
PL.31878	PL.31877	C	#2 ACSR	7.41Y	123.5	0.00	1.52	3.03	2	22	6	96	0.00	0.0	18.665	0.051	0	0	0	4
PL.31355	PL.31878	C	#2 ACSR	7.41Y	123.5	0.01	1.54	3.03	2	22	6	96	0.00	0.0	18.803	0.137	0	0	0	4
PL.31356	PL.31355	C	#2 ACSR	7.41Y	123.5	0.01	1.54	3.03	2	22	6	96	0.00	0.0	18.873	0.070	0	0	0	4
PL.31357	PL.31356	C	#2 ACSR	7.41Y	123.4	0.01	1.55	3.03	2	22	6	96	0.00	0.0	18.935	0.062	0	0	0	4
PL.31358	PL.31357	C	#2 ACSR	7.41Y	123.4	0.00	1.55	3.03	2	22	6	96	0.00	0.0	18.983	0.048	6	2	1	4
PL.31354	PL.31358	C	#2 ACSR	7.41Y	123.4	0.00	1.56	2.14	1	15	4	97	0.00	0.0	19.040	0.057	0	0	0	3
PL.31875	PL.31354	C	#2 ACSR	7.41Y	123.4	0.01	1.57	2.14	1	15	4	97	0.00	0.0	19.200	0.160	3	1	1	3
PL.31876	PL.31875	C	#2 ACSR	7.41Y	123.4	0.00	1.57	1.67	1	12	3	97	0.00	0.0	19.380	0.180	12	3	2	2
PL.31206	PL.31878	C	#2 ACSR	7.41Y	123.5	0.00	1.52	0.00	0	0	0	100	0.00	0.0	18.687	0.022	0	0	0	0
PL.32179	PL.31895	A C	#1/0 ACSR	7.42Y	123.6	0.00	1.36	13.60	6	194	56	96	0.00	0.0	16.841	0.005	0	0	0	50
PD.4396-A	PL.32179	A C	Closed	7.42Y	123.6	0.00	1.36	13.60	0	194	56	96	0.00	0.0	16.841	0.005	0	0	0	50
PD.4396-B	PD.4396-A	A C	Closed	7.42Y	123.6	0.00	1.36	13.60	0	194	56	96	0.00	0.0	16.841	0.005	0	0	0	50
PL.32180	PD.4396-B	A C	#1/0 ACSR	7.41Y	123.6	0.07	1.43	13.60	6	194	56	96	0.10	0.0	17.101	0.260	2	1	1	50
PL.31251	PL.32180	A C	#1/0 ACSR	7.41Y	123.5	0.04	1.47	13.44	6	192	55	96	0.05	0.0	17.252	0.150	0	0	0	49
PL.31557	PL.31251	A C	#1/0 ACSR	7.41Y	123.5	0.04	1.51	13.44	6	191	55	96	0.04	0.0	17.376	0.124	0	0	0	49
PL.31253	PL.31557	A C	#1/0 ACSR	7.41Y	123.5	0.04	1.55	13.44	6	191	55	96	0.05	0.0	17.512	0.136	1	0	1	49
PL.31892	PL.31253	A C	#1/0 ACSR	7.40Y	123.4	0.04	1.59	13.38	6	190	55	96	0.05	0.0	17.652	0.140	4	1	1	48
PL.31893	PL.31892	A C	#1/0 ACSR	7.40Y	123.4	0.01	1.60	13.10	6	186	54	96	0.02	0.0	17.704	0.052	6	2	1	47
PL.31255	PL.31893	A C	#1/0 ACSR	7.40Y	123.4	0.03	1.64	11.79	5	168	48	96	0.04	0.0	17.840	0.136	0	0	0	45
PL.31558	PL.31255	A C	#1/0 ACSR	7.40Y	123.4	0.01	1.65	11.79	5	168	48	96	0.02	0.0	17.895	0.055	0	0	0	45
PL.32101	PL.31558	C	#4 ACSR	7.40Y	123.4	0.00	1.65	1.20	1	9	2	98	0.00	0.0	17.899	0.005	0	0	0	2
PD.4356	PL.32101	C	30T	7.40Y	123.4	0.00	1.65	1.20	0	9	2	98	0.00	0.0	17.899	0.005	0	0	0	2
PL.32102	PD.4356	C	#4 ACSR	7.40Y	123.3	0.00	1.65	1.20	1	9	2	98	0.00	0.0	17.949	0.050	0	0	1	2
PL.31256	PL.32102	C	#1/0 ACSR	7.40Y	123.3	0.00	1.65	1.19	1	8	2	97	0.00	0.0	18.019	0.070	8	2	1	1
PL.30525	PL.31558	A C	#1/0 ACSR	7.40Y	123.3	0.01	1.66	11.19	5	159	46	96	0.01	0.0	17.937	0.042	0	0	0	43
PL.31257	PL.30525	C	#1/0 ACSR	7.40Y	123.3	0.00	1.66	0.81	0	6	2	95	0.00	0.0	17.941	0.005	0	0	0	4
PD.4355	PL.31257	C	30T	7.40Y	123.3	0.00	1.66	0.81	0	6	2	95	0.00	0.0	17.941	0.005	0	0	0	4
PL.30515	PD.4355	C	#1/0 ACSR	7.40Y	123.3	0.00	1.66	0.04	0	0	0	100	0.00	0.0	17.969	0.028	0	0	1	1

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

Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31259	PD.4355	C	6 A (CWC)	7.40Y	123.3	0.00	1.66	0.76	1	5	2	93	0.00	0.0	18.027	0.086	5	2	3	3
PL.31258	PL.30525	A C	#1/0 ACSR	7.40Y	123.3	0.01	1.67	10.79	5	153	44	96	0.01	0.0	17.997	0.060	0	0	1	39
PL.30516	PL.31258	A C	#1/0 ACSR	7.40Y	123.3	0.02	1.69	10.77	5	153	44	96	0.01	0.0	18.065	0.068	11	3	1	38
PL.31890	PL.30516	A C	#1/0 ACSR	7.40Y	123.3	0.01	1.70	9.28	4	132	38	96	0.01	0.0	18.114	0.049	1	0	1	35
PL.31891	PL.31890	A C	#1/0 ACSR	7.40Y	123.3	0.03	1.72	9.20	4	131	38	96	0.02	0.0	18.243	0.128	0	0	1	34
PL.31262	PL.31891	A C	#1/0 ACSR	7.40Y	123.3	0.02	1.74	7.82	3	111	32	96	0.02	0.0	18.376	0.133	7	2	2	30
PL.30517	PL.31262	A C	#1/0 ACSR	7.39Y	123.2	0.02	1.76	7.02	3	100	29	96	0.01	0.0	18.513	0.137	4	1	1	26
PL.32192	PL.30517	A C	#1/0 ACSR	7.39Y	123.2	0.01	1.77	4.97	2	71	20	96	0.00	0.0	18.568	0.055	0	0	0	23
PD.4403	PL.32192	C	35L	7.39Y	123.2	0.00	1.77	9.94	28	71	20	96	0.00	0.0	18.568	0.055	0	0	0	23
PL.32193	PD.4403	C	#1/0 ACSR	7.39Y	123.2	0.01	1.78	9.94	4	71	20	96	0.00	0.0	18.595	0.026	0	0	0	23
PL.32097	PL.32193	C	6 A (CWC)	7.39Y	123.2	0.00	1.78	1.66	1	12	3	97	0.00	0.0	18.599	0.005	0	0	0	5
PD.4353	PL.32097	C	15T	7.39Y	123.2	0.00	1.78	1.66	0	12	3	97	0.00	0.0	18.599	0.005	0	0	0	5
PL.32098	PD.4353	C	6 A (CWC)	7.39Y	123.2	0.01	1.79	1.66	1	12	3	97	0.00	0.0	18.705	0.105	0	0	0	5
PL.31559	PL.32098	C	6 A (CWC)	7.39Y	123.2	0.01	1.80	1.66	1	12	3	97	0.00	0.0	18.854	0.150	0	0	0	5
PL.31560	PL.31559	C	6 A (CWC)	7.39Y	123.2	0.00	1.80	1.66	1	12	3	97	0.00	0.0	18.920	0.065	2	0	1	5
PL.31270	PL.31560	C	6 A (CWC)	7.39Y	123.2	0.00	1.80	1.43	1	10	3	96	0.00	0.0	18.942	0.022	0	0	0	4
PL.31884	PL.31270	C	6 A (CWC)	7.39Y	123.2	0.00	1.80	0.30	0	2	1	89	0.00	0.0	19.005	0.063	2	1	2	2
PL.31885	PL.31884	C	6 A (CWC)	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	19.085	0.081	0	0	0	0
PL.31271	PL.31270	C	6 A (CWC)	7.39Y	123.2	0.00	1.80	1.13	1	8	2	97	0.00	0.0	19.007	0.065	7	2	1	2
PL.31883	PL.31271	C	#2 ACSR	7.39Y	123.2	0.00	1.80	0.16	0	1	0	100	0.00	0.0	19.045	0.038	1	0	1	1
PL.32099	PL.31883	C	#2 ACSR	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	19.050	0.005	0	0	0	0
PD.4354	PL.32099	C	10T	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	19.050	0.005	0	0	0	0
PL.32100	PD.4354	C	#2 ACSR	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	19.084	0.034	0	0	0	0
PL.31272	PL.32100	C	#2 ACSR	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	19.165	0.081	0	0	0	0
PL.31561	PL.31272	C	#2 ACSR	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	19.305	0.140	0	0	0	0
PL.31562	PL.31561	C	#2 ACSR	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	19.465	0.160	0	0	0	0
PL.31563	PL.31562	C	#2 ACSR	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	19.628	0.163	0	0	0	0
PL.31564	PL.31563	C	#2 ACSR	7.39Y	123.2	0.00	1.80	0.00	0	0	0	100	0.00	0.0	19.729	0.101	0	0	0	0
PL.31268	PL.32193	C	#1/0 ACSR	7.39Y	123.2	0.01	1.78	8.28	4	59	17	96	0.00	0.0	18.629	0.034	0	0	0	18
PL.31269	PL.31268	C	#1/0 ACSR	7.39Y	123.2	0.03	1.81	8.28	4	59	17	96	0.01	0.0	18.770	0.141	0	0	0	18
PL.31565	PL.31269	C	#1/0 ACSR	7.39Y	123.2	0.01	1.83	8.28	4	59	17	96	0.01	0.0	18.841	0.071	0	0	0	18

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32095	PL.31565	C	#4 ACSR	7.39Y	123.2	0.00	1.83	0.19	0	1	0	100	0.00	0.0	18.846	0.005	0	0	0	1
PD.4352	PL.32095	C	15T	7.39Y	123.2	0.00	1.83	0.19	0	1	0	100	0.00	0.0	18.846	0.005	0	0	0	1
PL.32096	PD.4352	C	#4 ACSR	7.39Y	123.2	0.00	1.83	0.19	0	1	0	100	0.00	0.0	18.943	0.097	0	0	0	1
PL.31566	PL.32096	C	#4 ACSR	7.39Y	123.2	0.00	1.83	0.19	0	1	0	100	0.00	0.0	19.057	0.114	0	0	0	1
PL.31576	PL.31566	C	#4 ACSR	7.39Y	123.2	0.00	1.83	0.19	0	1	0	100	0.00	0.0	19.173	0.116	1	0	1	1
PL.30519	PL.31565	C	#1/0 ACSR	7.39Y	123.1	0.03	1.86	8.09	4	57	17	96	0.01	0.0	18.989	0.147	0	0	0	17
PL.31274	PL.30519	C	#1/0 ACSR	7.39Y	123.1	0.01	1.87	8.09	4	57	16	96	0.01	0.0	19.058	0.069	0	0	1	17
PL.31870	PL.31274	C	#1/0 ACSR	7.39Y	123.1	0.01	1.88	6.95	3	49	14	96	0.00	0.0	19.145	0.087	2	1	1	13
PL.31871	PL.31870	C	#1/0 ACSR	7.39Y	123.1	0.02	1.90	6.62	3	47	13	96	0.01	0.0	19.267	0.123	0	0	0	12
PL.31569	PL.31871	C	#1/0 ACSR	7.39Y	123.1	0.01	1.92	6.62	3	47	13	96	0.00	0.0	19.347	0.079	0	0	0	12
PL.31277	PL.31569	C	#1/0 ACSR	7.38Y	123.1	0.00	1.92	6.62	3	47	13	96	0.00	0.0	19.363	0.017	0	0	0	12
PL.31868	PL.31277	C	#1/0 ACSR	7.38Y	123.1	0.01	1.93	5.23	2	37	11	96	0.00	0.0	19.470	0.106	3	1	1	10
PL.31869	PL.31868	C	#1/0 ACSR	7.38Y	123.1	0.02	1.95	4.77	2	34	10	96	0.00	0.0	19.618	0.148	0	0	0	9
PL.31570	PL.31869	C	#1/0 ACSR	7.38Y	123.0	0.01	1.95	4.77	2	34	10	96	0.00	0.0	19.669	0.051	0	0	0	9
PL.32089	PL.31570	C	#4 ACSR	7.38Y	123.0	0.00	1.95	0.82	1	6	2	95	0.00	0.0	19.674	0.005	0	0	0	1
PD.4349	PL.32089	C	15T	7.38Y	123.0	0.00	1.95	0.82	0	6	2	95	0.00	0.0	19.674	0.005	0	0	0	1
PL.32090	PD.4349	C	#4 ACSR	7.38Y	123.0	0.00	1.96	0.82	1	6	2	95	0.00	0.0	19.737	0.063	6	2	1	1
PL.30521	PL.31570	C	#1/0 ACSR	7.38Y	123.0	0.01	1.96	3.95	2	28	8	96	0.00	0.0	19.771	0.102	0	0	0	8
PL.31278	PL.30521	C	#1/0 ACSR	7.38Y	123.0	0.01	1.97	3.95	2	28	8	96	0.00	0.0	19.892	0.121	5	1	1	8
PL.31279	PL.31278	C	#4 ACSR	7.38Y	123.0	0.00	1.98	1.36	1	10	3	96	0.00	0.0	19.936	0.044	10	3	2	2
PL.31866	PL.31278	C	#1/0 ACSR	7.38Y	123.0	0.00	1.98	1.94	1	14	4	96	0.00	0.0	19.932	0.040	1	0	1	5
PL.31867	PL.31866	C	#1/0 ACSR	7.38Y	123.0	0.00	1.98	1.77	1	13	4	96	0.00	0.0	19.978	0.046	4	1	1	4
PL.31865	PL.31867	C	#1/0 ACSR	7.38Y	123.0	0.00	1.98	1.20	1	9	2	98	0.00	0.0	20.149	0.171	0	0	0	3
PL.31863	PL.31865	C	#1/0 ACSR	7.38Y	123.0	0.00	1.98	0.53	0	4	1	97	0.00	0.0	20.265	0.116	2	1	1	2
PL.31864	PL.31863	C	#1/0 ACSR	7.38Y	123.0	0.00	1.98	0.18	0	1	0	100	0.00	0.0	20.387	0.122	0	0	0	1
PL.31571	PL.31864	C	#1/0 ACSR	7.38Y	123.0	0.00	1.99	0.18	0	1	0	100	0.00	0.0	20.533	0.146	0	0	0	1
PL.31861	PL.31571	C	#1/0 ACSR	7.38Y	123.0	0.00	1.99	0.18	0	1	0	100	0.00	0.0	20.585	0.053	1	0	1	1
PL.31862	PL.31861	C	#1/0 ACSR	7.38Y	123.0	0.00	1.99	0.00	0	0	0	100	0.00	0.0	20.642	0.057	0	0	0	0
PL.32341	PL.31862	C	#1/0 ACSR	7.38Y	123.0	0.00	1.99	0.00	0	0	0	100	0.00	0.0	20.647	0.005	0	0	0	0
PD.4461-B	PL.32341	C	Open	7.38Y	123.0	0.00	1.99	0.00	0	0	0	100	0.00	0.0	20.647	0.005	0	0	0	0
PL.31280	PL.31865	C	#4 ACSR	7.38Y	123.0	0.00	1.98	0.67	1	5	1	98	0.00	0.0	20.165	0.016	5	1	1	1

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32091	PL.31277	C	6 A (CWC)	7.38Y	123.1	0.00	1.92	1.38	1	10	3	96	0.00	0.0	19.367	0.004	0	0	0	2
PD.4350	PL.32091	C	15T	7.38Y	123.1	0.00	1.92	1.38	0	10	3	96	0.00	0.0	19.367	0.004	0	0	0	2
PL.32092	PD.4350	C	6 A (CWC)	7.38Y	123.1	0.00	1.92	1.38	1	10	3	96	0.00	0.0	19.403	0.035	10	3	2	2
PL.32093	PL.31274	C	6 A (CWC)	7.39Y	123.1	0.00	1.87	1.07	1	8	2	97	0.00	0.0	19.063	0.005	0	0	0	3
PD.4351	PL.32093	C	15T	7.39Y	123.1	0.00	1.87	1.07	0	8	2	97	0.00	0.0	19.063	0.005	0	0	0	3
PL.32094	PD.4351	C	6 A (CWC)	7.39Y	123.1	0.00	1.87	1.07	1	8	2	97	0.00	0.0	19.144	0.082	5	1	1	3
PL.31872	PL.32094	C	6 A (CWC)	7.39Y	123.1	0.00	1.87	0.39	0	3	1	95	0.00	0.0	19.196	0.052	0	0	0	2
PL.31275	PL.31872	C	6 A (CWC)	7.39Y	123.1	0.00	1.87	0.39	0	3	1	95	0.00	0.0	19.238	0.042	0	0	1	2
PL.31276	PL.31275	C	6 A (CWC)	7.39Y	123.1	0.00	1.87	0.39	0	3	1	95	0.00	0.0	19.317	0.079	3	1	1	1
PL.31267	PL.30517	C	6 A (CWC)	7.39Y	123.2	0.01	1.77	3.57	3	25	7	96	0.00	0.0	18.560	0.047	9	3	1	2
PL.31266	PL.31267	C	#4 ACSR	7.39Y	123.2	0.00	1.77	2.30	2	16	5	95	0.00	0.0	18.610	0.050	16	5	1	1
PL.31264	PL.31262	C	6 A (CWC)	7.40Y	123.3	0.00	1.75	0.68	0	5	1	98	0.00	0.0	18.393	0.018	0	0	0	2
PL.30518	PL.31264	C	6 A (CWC)	7.40Y	123.3	0.00	1.75	0.26	0	2	1	89	0.00	0.0	18.430	0.036	2	1	1	1
PL.31265	PL.31264	C	#4 ACSR	7.40Y	123.3	0.00	1.75	0.42	0	3	1	95	0.00	0.0	18.445	0.052	3	1	1	1
PL.31881	PL.31891	C	6 A (CWC)	7.40Y	123.3	0.00	1.72	1.49	1	11	3	96	0.00	0.0	18.277	0.034	5	1	1	2
PL.31882	PL.31881	C	6 A (CWC)	7.40Y	123.3	0.00	1.73	0.78	1	6	2	95	0.00	0.0	18.323	0.047	0	0	0	1
PL.30520	PL.31882	C	6 A (CWC)	7.40Y	123.3	0.00	1.73	0.00	0	0	0	100	0.00	0.0	18.346	0.023	0	0	0	0
PL.31263	PL.31882	C	#4 ACSR	7.40Y	123.3	0.00	1.73	0.78	1	6	2	95	0.00	0.0	18.415	0.092	6	2	1	1
PL.31260	PL.31891	C	6 A (CWC)	7.40Y	123.3	0.00	1.73	1.27	1	9	3	95	0.00	0.0	18.318	0.075	9	3	1	1
PL.31261	PL.31891	C	#2 ACSR	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	18.297	0.054	0	0	0	0
PL.31888	PL.30516	C	6 A (CWC)	7.40Y	123.3	0.00	1.69	1.39	1	10	3	96	0.00	0.0	18.185	0.120	8	2	1	2
PL.31889	PL.31888	C	6 A (CWC)	7.40Y	123.3	0.00	1.69	0.32	0	2	1	89	0.00	0.0	18.288	0.103	0	0	0	1
PL.31886	PL.31889	C	#4 ACSR	7.40Y	123.3	0.00	1.70	0.32	0	2	1	89	0.00	0.0	18.345	0.056	2	1	1	1
PL.31887	PL.31886	C	#4 ACSR	7.40Y	123.3	0.00	1.70	0.00	0	0	0	100	0.00	0.0	18.395	0.050	0	0	0	0
PL.31254	PL.31893	C	#1/0 ACSR	7.40Y	123.4	0.00	1.60	1.71	1	12	3	97	0.00	0.0	17.780	0.076	12	3	1	1
PL.31252	PL.31557	C	#2 ACSR	7.41Y	123.5	0.00	1.51	0.00	0	0	0	100	0.00	0.0	17.426	0.050	0	0	0	0
PL.31243	PL.31903	C	#1/0 ACSR	7.47Y	124.5	0.00	0.50	0.00	0	0	0	100	0.00	0.0	14.413	0.048	0	0	1	1
PL.32105	PL.31242	C	6 A (CWC)	7.48Y	124.7	0.00	0.34	0.74	1	5	2	93	0.00	0.0	14.002	0.005	0	0	0	2
PD.4358	PL.32105	C	30T	7.48Y	124.7	0.00	0.34	0.74	0	5	2	93	0.00	0.0	14.002	0.005	0	0	0	2
PL.32106	PD.4358	C	6 A (CWC)	7.48Y	124.7	0.00	0.34	0.74	1	5	2	93	0.00	0.0	14.053	0.050	5	2	2	2
PL.31209	PL.31348	C	6 A (CWC)	7.40Y	123.4	0.00	1.62	3.85	3	27	8	96	0.00	0.0	13.253	0.004	0	0	0	6

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

Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.4281	PL.31209	C	40T	7.40Y	123.4	0.00	1.62	3.85	0	27	8	96	0.00	0.0	13.253	0.004	0	0	0	6
PL.31208	PD.4281	C	6 A (CWC)	7.40Y	123.4	0.00	1.62	2.48	2	18	5	96	0.00	0.0	13.332	0.078	18	5	2	2
PL.31349	PD.4281	C	6 A (CWC)	7.40Y	123.4	0.00	1.62	1.38	1	10	3	96	0.00	0.0	13.282	0.029	0	0	0	4
PL.31350	PL.31349	C	6 A (CWC)	7.40Y	123.4	0.00	1.62	1.10	1	8	2	97	0.00	0.0	13.333	0.051	0	0	0	3
PL.31351	PL.31350	C	6 A (CWC)	7.40Y	123.4	0.00	1.63	0.45	0	3	1	95	0.00	0.0	13.406	0.073	0	0	0	1
PL.31212	PL.31351	C	6 A (CWC)	7.40Y	123.4	0.00	1.63	0.45	0	3	1	95	0.00	0.0	13.416	0.010	3	1	1	1
PL.31211	PL.31350	C	6 A (CWC)	7.40Y	123.4	0.00	1.63	0.66	0	5	1	98	0.00	0.0	13.444	0.111	5	1	2	2
PL.31210	PL.31349	C	#1/0 ACSR	7.40Y	123.4	0.00	1.62	0.28	0	2	1	89	0.00	0.0	13.322	0.040	2	1	1	1
PL.31963	PL.31506	C	6 A (CWC)	7.41Y	123.4	0.00	1.57	1.40	1	10	3	96	0.00	0.0	13.129	0.005	0	0	0	1
PD.4285	PL.31963	C	40T	7.41Y	123.4	0.00	1.57	1.40	0	10	3	96	0.00	0.0	13.129	0.005	0	0	0	1
PL.31964	PD.4285	C	6 A (CWC)	7.41Y	123.4	0.00	1.57	1.40	1	10	3	96	0.00	0.0	13.194	0.064	10	3	1	1
PL.31975	PL.31346	A	#2 ACSR	7.44Y	123.9	0.00	1.08	0.07	0	1	0	100	0.00	0.0	11.991	0.005	0	0	0	1
PD.4291	PL.31975	A	40T	7.44Y	123.9	0.00	1.08	0.07	0	1	0	100	0.00	0.0	11.991	0.005	0	0	0	1
PL.31976	PD.4291	A	#2 ACSR	7.44Y	123.9	0.00	1.08	0.07	0	1	0	100	0.00	0.0	12.033	0.042	1	0	1	1
PL.31977	PL.31803	A	6 A (CWC)	7.44Y	124.0	0.00	1.03	1.43	1	10	3	96	0.00	0.0	11.889	0.005	0	0	0	1
PD.4292	PL.31977	A	40T	7.44Y	124.0	0.00	1.03	1.43	0	10	3	96	0.00	0.0	11.889	0.005	0	0	0	1
PL.31978	PD.4292	A	6 A (CWC)	7.44Y	124.0	0.00	1.04	1.43	1	10	3	96	0.00	0.0	11.993	0.104	10	3	1	1
PL.31973	PL.32197	A	#1/0 ACSR	7.44Y	124.0	0.00	0.95	1.29	1	9	3	95	0.00	0.0	11.720	0.005	0	0	0	1
PD.4290	PL.31973	A	40T	7.44Y	124.0	0.00	0.95	1.29	0	9	3	95	0.00	0.0	11.720	0.005	0	0	0	1
PL.31974	PD.4290	A	#1/0 ACSR	7.44Y	124.0	0.00	0.95	1.29	1	9	3	95	0.00	0.0	11.734	0.014	9	3	1	1
CP.46	PL.32196	ABC	Cap (300)	7.44Y	124.1	0.00	0.93	0.00	0	0	0	100	0.00	0.0	11.658	0.014	0	0	0	0
PL.31971	PL.31798	A	6 A (CWC)	7.45Y	124.1	0.00	0.87	4.44	3	32	9	96	0.00	0.0	11.552	0.005	0	0	0	3
PD.4289	PL.31971	A	40T	7.45Y	124.1	0.00	0.87	4.44	0	32	9	96	0.00	0.0	11.552	0.005	0	0	0	3
PL.31972	PD.4289	A	6 A (CWC)	7.45Y	124.1	0.02	0.90	4.44	3	32	9	96	0.00	0.0	11.709	0.158	18	5	2	3
PL.31795	PL.31972	A	6 A (CWC)	7.45Y	124.1	0.00	0.90	1.99	1	14	4	96	0.00	0.0	11.756	0.046	0	0	0	1
PL.31724	PL.31795	A	6 A (CWC)	7.44Y	124.1	0.02	0.92	1.99	1	14	4	96	0.00	0.0	11.929	0.174	0	0	0	1
PL.31725	PL.31724	A	6 A (CWC)	7.44Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	12.007	0.077	0	0	0	0
PL.31790	PL.31724	A	#4 ACSR	7.44Y	124.1	0.00	0.92	1.99	2	14	4	96	0.00	0.0	11.989	0.059	14	4	1	1
PL.31791	PL.31790	A	#4 ACSR	7.44Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	12.066	0.077	0	0	0	0
PL.31204	PL.31791	A	#4 ACSR	7.44Y	124.1	0.00	0.92	0.00	0	0	0	100	0.00	0.0	12.174	0.108	0	0	0	0
PL.31983	PL.31343	B	6 A (CWC)	7.46Y	124.3	0.00	0.67	4.86	3	35	10	96	0.00	0.0	11.147	0.005	0	0	0	11

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

Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.4295	PL.31983	B	25T	7.46Y	124.3	0.00	0.67	4.86	0	35	10	96	0.00	0.0	11.147	0.005	0	0	0	11
PL.31984	PD.4295	B	6 A (CWC)	7.46Y	124.3	0.01	0.68	4.86	3	35	10	96	0.00	0.0	11.187	0.040	0	0	0	11
PL.31196	PL.31984	B	6 A (CWC)	7.46Y	124.3	0.02	0.70	4.86	3	35	10	96	0.01	0.0	11.294	0.107	0	0	0	11
PL.31195	PL.31196	B	6 A (CWC)	7.46Y	124.3	0.02	0.72	4.86	3	35	10	96	0.01	0.0	11.400	0.106	0	0	0	11
PL.31500	PL.31195	B	6 A (CWC)	7.46Y	124.3	0.03	0.75	4.86	3	35	10	96	0.01	0.0	11.513	0.113	0	0	0	11
PL.31501	PL.31500	B	6 A (CWC)	7.45Y	124.2	0.03	0.78	4.86	3	35	10	96	0.01	0.0	11.653	0.140	0	0	0	11
PL.31792	PL.31501	B	6 A (CWC)	7.45Y	124.2	0.01	0.79	4.86	3	35	10	96	0.00	0.0	11.691	0.038	1	0	1	11
PL.31793	PL.31792	B	6 A (CWC)	7.45Y	124.2	0.01	0.79	4.75	3	34	10	96	0.00	0.0	11.724	0.033	7	2	1	10
PL.31794	PL.31793	B	6 A (CWC)	7.45Y	124.2	0.03	0.82	3.79	3	27	8	96	0.01	0.0	11.895	0.171	5	2	1	9
PL.31198	PL.31794	B	6 A (CWC)	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	11.997	0.102	0	0	0	2
PL.31502	PL.31198	B	6 A (CWC)	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	12.148	0.151	0	0	0	2
PL.31503	PL.31502	B	6 A (CWC)	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	12.262	0.114	0	0	0	2
PL.31505	PL.31503	B	6 A (CWC)	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	12.387	0.125	0	0	0	2
PL.31504	PL.31505	B	6 A (CWC)	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	12.501	0.114	0	0	0	2
PL.31205	PL.31504	B	6 A (CWC)	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	12.569	0.069	0	0	0	2
PL.31789	PL.31205	B	6 A (CWC)	7.45Y	124.2	0.00	0.82	0.01	0	0	0	100	0.00	0.0	12.614	0.045	0	0	1	2
PL.31788	PL.31789	B	6 A (CWC)	7.45Y	124.2	0.00	0.82	0.00	0	0	0	100	0.00	0.0	12.699	0.085	0	0	1	1
PL.31197	PL.31794	B	6 A (CWC)	7.45Y	124.2	0.01	0.83	3.03	2	22	6	96	0.00	0.0	11.994	0.100	4	1	1	6
PL.31199	PL.31197	B	#4 ACSR	7.45Y	124.2	0.01	0.84	2.51	2	18	5	96	0.00	0.0	12.061	0.066	8	2	2	5
PL.31201	PL.31199	B	#1/0 ACSR	7.45Y	124.2	0.00	0.84	0.50	0	4	1	97	0.00	0.0	12.133	0.073	0	0	0	1
PL.31202	PL.31201	B	#1/0 ACSR	7.45Y	124.2	0.00	0.84	0.50	0	4	1	97	0.00	0.0	12.174	0.041	4	1	1	1
PL.31200	PL.31199	B	6 A (CWC)	7.45Y	124.2	0.00	0.84	0.93	1	7	2	96	0.00	0.0	12.136	0.076	7	2	2	2
PL.31985	PL.31807	A	6 A (CWC)	7.47Y	124.6	0.00	0.43	8.76	6	63	18	96	0.00	0.0	10.717	0.005	0	0	0	13
PD.4296	PL.31985	A	40T	7.47Y	124.6	0.00	0.43	8.76	0	63	18	96	0.00	0.0	10.717	0.005	0	0	0	13
PL.31986	PD.4296	A	6 A (CWC)	7.47Y	124.5	0.04	0.47	8.76	6	63	18	96	0.02	0.0	10.812	0.095	0	0	0	13
PL.31829	PL.31986	A	6 A (CWC)	7.47Y	124.5	0.04	0.51	7.21	5	52	15	96	0.02	0.0	10.939	0.127	0	0	0	10
PL.31830	PL.31829	A	6 A (CWC)	7.47Y	124.5	0.03	0.54	7.21	5	52	15	96	0.01	0.0	11.042	0.103	0	0	0	10
PL.31189	PL.31830	A	#4 ACSR	7.47Y	124.4	0.01	0.55	1.79	1	13	4	96	0.00	0.0	11.151	0.109	8	2	1	2
PL.31190	PL.31189	A	#2 ACSR	7.47Y	124.4	0.00	0.55	0.71	0	5	1	98	0.00	0.0	11.170	0.019	5	1	1	1
PL.31342	PL.31830	A	6 A (CWC)	7.47Y	124.4	0.01	0.55	5.41	4	39	11	96	0.00	0.0	11.081	0.039	0	0	0	8
PL.31191	PL.31342	A	6 A (CWC)	7.47Y	124.4	0.01	0.57	5.41	4	39	11	96	0.00	0.0	11.144	0.063	4	1	2	8

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31192	PL.31191	A	#4 ACSR	7.46Y	124.4	0.02	0.59	4.85	4	35	10	96	0.00	0.0	11.220	0.076	0	0	0	6
PL.31726	PL.31192	A	#4 ACSR	7.46Y	124.4	0.01	0.59	1.94	1	14	4	96	0.00	0.0	11.294	0.074	0	0	0	3
PL.31727	PL.31726	A	#4 ACSR	7.46Y	124.4	0.00	0.59	0.00	0	0	0	100	0.00	0.0	11.329	0.035	0	0	0	0
PL.31728	PL.31726	A	#4 ACSR	7.46Y	124.4	0.01	0.60	1.94	1	14	4	96	0.00	0.0	11.368	0.074	0	0	0	3
PL.31729	PL.31728	A	#4 ACSR	7.46Y	124.4	0.00	0.60	1.93	1	14	4	96	0.00	0.0	11.452	0.084	14	4	2	2
PL.31193	PL.31728	A	#4 ACSR	7.46Y	124.4	0.00	0.60	0.00	0	0	0	100	0.00	0.0	11.403	0.034	0	0	1	1
PL.31831	PL.31192	A	#4 ACSR	7.46Y	124.4	0.01	0.60	2.92	2	21	6	96	0.00	0.0	11.333	0.113	10	3	2	3
PL.31832	PL.31831	A	#4 ACSR	7.46Y	124.4	0.00	0.60	1.58	1	11	3	96	0.00	0.0	11.377	0.044	0	0	0	1
PL.31833	PL.31832	A	#4 ACSR	7.46Y	124.4	0.00	0.60	1.58	1	11	3	96	0.00	0.0	11.437	0.060	11	3	1	1
PL.31188	PL.31986	A	#4 ACSR	7.47Y	124.5	0.00	0.47	0.57	0	4	1	97	0.00	0.0	10.885	0.073	4	1	1	1
PL.31808	PL.31986	A	6 A (CWC)	7.47Y	124.5	0.00	0.47	0.99	1	7	2	96	0.00	0.0	10.863	0.051	5	2	1	2
PL.31809	PL.31808	A	6 A (CWC)	7.47Y	124.5	0.00	0.47	0.25	0	2	1	89	0.00	0.0	10.872	0.009	2	1	1	1
PL.32153	PL.31807	C	#2 ACSR	7.47Y	124.6	0.00	0.43	1.16	1	8	2	97	0.00	0.0	10.717	0.005	0	0	0	1
PD.4383	PL.32153	C	40T	7.47Y	124.6	0.00	0.43	1.16	0	8	2	97	0.00	0.0	10.717	0.005	0	0	0	1
PL.32154	PD.4383	C	#2 ACSR	7.47Y	124.6	0.00	0.43	1.16	1	8	2	97	0.00	0.0	10.826	0.109	8	2	1	1
PL.32003	PL.31824	A	6 A (CWC)	7.51Y	125.2	0.00	-0.20	1.52	1	11	3	96	0.00	0.0	9.793	0.005	0	0	0	2
PD.4306	PL.32003	A	40T	7.51Y	125.2	0.00	-0.20	1.52	0	11	3	96	0.00	0.0	9.793	0.005	0	0	0	2
PL.32004	PD.4306	A	6 A (CWC)	7.51Y	125.2	0.00	-0.20	1.52	1	11	3	96	0.00	0.0	9.805	0.012	0	0	0	2
PL.31181	PL.32004	A	#2 ACSR	7.51Y	125.2	0.00	-0.20	0.22	0	2	0	100	0.00	0.0	9.836	0.031	2	0	1	1
PL.31341	PL.32004	A	6 A (CWC)	7.51Y	125.2	0.00	-0.19	1.30	1	9	3	95	0.00	0.0	9.863	0.058	9	3	1	1
PL.31999	PL.31336	C	#1/0 ACSR	7.12Y	118.7	0.00	6.26	0.00	0	0	0	100	0.00	0.0	8.981	0.005	0	0	0	1
PD.4304	PL.31999	C	40T	7.12Y	118.7	0.00	6.26	0.00	0	0	0	100	0.00	0.0	8.981	0.005	0	0	0	1
PL.32000	PD.4304	C	#1/0 ACSR	7.12Y	118.7	0.00	6.26	0.00	0	0	0	100	0.00	0.0	9.027	0.046	0	0	1	1
PL.31997	PL.31730	A	#2 ACSR	7.13Y	118.8	0.00	6.18	1.59	1	11	3	96	0.00	0.0	8.894	0.004	0	0	0	1
PD.4303	PL.31997	A	40T	7.13Y	118.8	0.00	6.18	1.59	0	11	3	96	0.00	0.0	8.894	0.004	0	0	0	1
PL.31998	PD.4303	A	#2 ACSR	7.13Y	118.8	0.00	6.19	1.59	1	11	3	96	0.00	0.0	8.976	0.082	11	3	1	1
PL.32149	PL.31732	C	#4 ACSR	7.14Y	118.9	0.00	6.06	1.97	2	13	4	96	0.00	0.0	8.751	0.005	0	0	0	5
PD.4381	PL.32149	C	40T	7.14Y	118.9	0.00	6.06	1.97	0	13	4	96	0.00	0.0	8.751	0.005	0	0	0	5
PL.32150	PD.4381	C	#4 ACSR	7.14Y	118.9	0.00	6.06	1.97	2	13	4	96	0.00	0.0	8.805	0.055	0	0	3	5
PL.31166	PL.32150	C	#4 ACSR	7.14Y	118.9	0.00	6.07	1.12	1	8	2	97	0.00	0.0	8.877	0.072	8	2	1	1
PL.31167	PL.32150	C	#4 ACSR	7.14Y	118.9	0.00	6.06	0.84	1	6	2	95	0.00	0.0	8.876	0.070	6	2	1	1

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32007	PL.31828	B	6 A (CWC)	7.15Y	119.1	0.00	5.91	8.27	6	57	16	96	0.00	0.0	8.584	0.005	0	0	0	16
PD.4308	PL.32007	B	40T	7.15Y	119.1	0.00	5.91	8.27	0	57	16	96	0.00	0.0	8.584	0.005	0	0	0	16
PL.32008	PD.4308	B	6 A (CWC)	7.14Y	119.1	0.03	5.94	8.27	6	57	16	96	0.01	0.0	8.672	0.088	0	0	0	16
PL.31825	PL.32008	B	#4 ACSR	7.14Y	119.0	0.02	5.96	8.27	6	57	16	96	0.01	0.0	8.728	0.056	7	2	1	16
PL.31826	PL.31825	B	#4 ACSR	7.14Y	119.0	0.06	6.02	7.18	6	49	14	96	0.02	0.0	8.908	0.179	0	0	0	15
PL.31486	PL.31826	B	#4 ACSR	7.14Y	118.9	0.05	6.07	7.18	6	49	14	96	0.02	0.0	9.067	0.160	0	0	0	15
PL.31487	PL.31486	B	#4 ACSR	7.13Y	118.9	0.02	6.10	7.18	6	49	14	96	0.01	0.0	9.139	0.072	0	0	0	15
PL.31169	PL.31487	B	#4 ACSR	7.13Y	118.9	0.04	6.13	5.96	5	41	12	96	0.01	0.0	9.274	0.135	0	0	0	14
PL.31488	PL.31169	B	#4 ACSR	7.13Y	118.8	0.04	6.17	5.96	5	41	12	96	0.01	0.0	9.442	0.168	7	2	1	14
PL.31815	PL.31488	B	#4 ACSR	7.13Y	118.8	0.01	6.18	2.84	2	19	6	95	0.00	0.0	9.506	0.064	5	2	1	5
PL.31816	PL.31815	B	#4 ACSR	7.13Y	118.8	0.00	6.18	2.05	2	14	4	96	0.00	0.0	9.544	0.038	4	1	2	4
PL.31817	PL.31816	B	#4 ACSR	7.13Y	118.8	0.00	6.19	1.53	1	11	3	96	0.00	0.0	9.612	0.068	9	3	1	2
PL.31173	PL.31817	B	#1/0 ACSR	7.13Y	118.8	0.00	6.19	0.16	0	1	0	100	0.00	0.0	9.772	0.160	1	0	1	1
PL.31171	PL.31488	B	#2 ACSR	7.13Y	118.8	0.00	6.18	1.42	1	10	3	96	0.00	0.0	9.568	0.126	9	3	1	2
PL.31172	PL.31171	B	#2 ACSR	7.13Y	118.8	0.00	6.18	0.09	0	1	0	100	0.00	0.0	9.595	0.028	1	0	1	1
PL.31170	PL.31488	B	#2 ACSR	7.13Y	118.8	0.00	6.17	0.73	0	5	1	98	0.00	0.0	9.467	0.025	0	0	0	6
PL.31174	PL.31170	B	#2 ACSR	7.13Y	118.8	0.00	6.18	0.73	0	5	1	98	0.00	0.0	9.581	0.114	0	0	0	6
PL.31759	PL.31174	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.42	0	3	1	95	0.00	0.0	9.622	0.041	0	0	0	5
PL.31760	PL.31759	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.42	0	3	1	95	0.00	0.0	9.687	0.065	0	0	0	5
PL.31757	PL.31760	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.40	0	3	1	95	0.00	0.0	9.790	0.103	0	0	0	2
PL.31758	PL.31757	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.40	0	3	1	95	0.00	0.0	9.874	0.084	0	0	0	2
PL.31755	PL.31758	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.40	0	3	1	95	0.00	0.0	9.995	0.122	0	0	1	2
PL.31756	PL.31755	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.40	0	3	1	95	0.00	0.0	10.019	0.023	3	1	1	1
PL.31949	PL.31760	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.02	0	0	0	100	0.00	0.0	9.692	0.005	0	0	0	3
PD.4276	PL.31949	B	25T	7.13Y	118.8	0.00	6.18	0.02	0	0	0	100	0.00	0.0	9.692	0.005	0	0	0	3
PL.31950	PD.4276	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.02	0	0	0	100	0.00	0.0	9.815	0.123	0	0	0	3
PL.31491	PL.31950	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.02	0	0	0	100	0.00	0.0	9.959	0.144	0	0	0	3
PL.31490	PL.31491	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.02	0	0	0	100	0.00	0.0	10.100	0.142	0	0	0	3
PL.31492	PL.31490	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.02	0	0	0	100	0.00	0.0	10.249	0.149	0	0	0	3
PL.31493	PL.31492	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.02	0	0	0	100	0.00	0.0	10.425	0.176	0	0	0	3
PL.31753	PL.31493	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.02	0	0	0	100	0.00	0.0	10.490	0.065	0	0	3	3

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31754	PL.31753	B	#1/0 ACSR	7.13Y	118.8	0.00	6.18	0.00	0	0	0	100	0.00	0.0	10.558	0.068	0	0	0	0
PL.31175	PL.31174	B	#2 ACSR	7.13Y	118.8	0.00	6.18	0.31	0	2	1	89	0.00	0.0	9.608	0.026	2	1	1	1
PL.31177	PL.31174	B	#2 ACSR	7.13Y	118.8	0.00	6.18	0.00	0	0	0	100	0.00	0.0	9.688	0.107	0	0	0	0
PL.31489	PL.31177	B	#2 ACSR	7.13Y	118.8	0.00	6.18	0.00	0	0	0	100	0.00	0.0	9.802	0.113	0	0	0	0
PL.31176	PL.31174	B	#2 ACSR	7.13Y	118.8	0.00	6.18	0.00	0	0	0	100	0.00	0.0	9.637	0.056	0	0	0	0
PL.31168	PL.31487	B	#2 ACSR	7.13Y	118.9	0.00	6.10	1.22	1	8	2	97	0.00	0.0	9.280	0.141	8	2	1	1
CP.47	PL.32198	ABC	Cap (300)	7.21Y	120.1	0.00	4.91	0.00	0	0	0	100	0.00	0.0	7.539	0.141	0	0	0	0
PL.32045	PL.31142	C	#1/0 ACSR	7.23Y	120.5	0.00	4.54	20.69	9	144	42	96	0.00	0.0	7.161	0.005	0	0	0	32
PD.4328	PL.32045	C	40T	7.23Y	120.5	0.00	4.54	20.69	0	144	42	96	0.00	0.0	7.161	0.005	0	0	0	32
PL.32046	PD.4328	C	#1/0 ACSR	7.23Y	120.4	0.03	4.57	20.69	9	144	42	96	0.03	0.0	7.234	0.073	18	5	3	32
PL.31735	PL.32046	C	#1/0 ACSR	7.22Y	120.4	0.04	4.61	18.06	8	125	36	96	0.03	0.0	7.326	0.092	2	1	1	27
PL.31145	PL.31735	C	#2 ACSR	7.22Y	120.4	0.00	4.61	0.14	0	1	0	100	0.00	0.0	7.359	0.033	1	0	1	1
PL.31329	PL.31735	C	#1/0 ACSR	7.22Y	120.4	0.01	4.62	17.64	8	122	35	96	0.01	0.0	7.354	0.028	0	0	0	25
PL.31146	PL.31329	C	#2 ACSR	7.22Y	120.4	0.00	4.63	0.89	1	6	2	95	0.00	0.0	7.396	0.042	6	2	1	1
PL.31604	PL.31329	C	#1/0 ACSR	7.22Y	120.3	0.05	4.67	16.75	7	116	34	96	0.03	0.0	7.473	0.119	10	3	1	24
PL.31605	PL.31604	C	#1/0 ACSR	7.22Y	120.3	0.02	4.69	15.35	7	106	31	96	0.01	0.0	7.514	0.041	0	0	0	23
PL.31147	PL.31605	C	#1/0 ACSR	7.22Y	120.3	0.04	4.72	15.35	7	106	31	96	0.02	0.0	7.608	0.094	0	0	0	23
PL.31606	PL.31147	C	#1/0 ACSR	7.22Y	120.3	0.02	4.74	14.14	6	98	28	96	0.01	0.0	7.674	0.066	9	3	3	22
PL.31607	PL.31606	C	#1/0 ACSR	7.21Y	120.2	0.03	4.77	12.85	6	89	26	96	0.02	0.0	7.770	0.096	0	0	0	19
PL.31719	PL.31607	C	#1/0 ACSR	7.21Y	120.2	0.04	4.81	12.85	6	89	26	96	0.02	0.0	7.889	0.119	0	0	0	19
PL.31475	PL.31719	C	#1/0 ACSR	7.21Y	120.2	0.03	4.84	12.85	6	89	26	96	0.02	0.0	7.977	0.088	0	0	0	19
PL.31718	PL.31475	C	#1/0 ACSR	7.21Y	120.1	0.03	4.87	12.85	6	89	26	96	0.02	0.0	8.089	0.111	0	0	0	19
PL.31149	PL.31718	C	#1/0 ACSR	7.20Y	120.1	0.05	4.93	11.79	5	82	24	96	0.03	0.0	8.280	0.191	0	0	0	18
PL.32047	PL.31149	C	#1/0 ACSR	7.20Y	120.1	0.00	4.93	11.79	5	82	23	96	0.00	0.0	8.284	0.004	0	0	0	18
PD.4329	PL.32047	C	20T	7.20Y	120.1	0.00	4.93	11.79	0	82	23	96	0.00	0.0	8.284	0.004	0	0	0	18
PL.32048	PD.4329	C	#1/0 ACSR	7.20Y	120.1	0.01	4.94	11.79	5	82	23	96	0.01	0.0	8.319	0.035	0	0	0	18
PL.31331	PL.32048	C	#1/0 ACSR	7.20Y	120.0	0.04	4.98	11.37	5	79	23	96	0.02	0.0	8.466	0.147	0	0	0	17
PL.31477	PL.31331	C	#1/0 ACSR	7.20Y	120.0	0.03	5.01	11.37	5	79	23	96	0.02	0.0	8.592	0.126	0	0	0	17
PL.31478	PL.31477	C	#1/0 ACSR	7.20Y	119.9	0.04	5.05	11.37	5	79	23	96	0.02	0.0	8.741	0.149	4	1	2	17
PL.31155	PL.31478	C	#4 ACSR	7.20Y	119.9	0.02	5.07	9.73	7	67	19	96	0.01	0.0	8.784	0.042	12	4	2	11
PL.31332	PL.31155	C	#4 ACSR	7.19Y	119.9	0.03	5.10	6.55	5	45	13	96	0.01	0.0	8.883	0.099	1	0	1	8

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31159	PL.31332	C	#4 ACSR	7.19Y	119.9	0.00	5.10	1.53	1	11	3	96	0.00	0.0	9.009	0.126	11	3	2	2
PL.31608	PL.31332	C	#4 ACSR	7.19Y	119.9	0.01	5.11	4.89	4	34	10	96	0.00	0.0	8.929	0.047	10	3	1	5
PL.31609	PL.31608	C	#4 ACSR	7.19Y	119.9	0.01	5.12	3.40	3	24	7	96	0.00	0.0	8.984	0.055	0	0	0	4
PL.31333	PL.31609	C	#4 ACSR	7.19Y	119.9	0.00	5.12	1.72	1	12	3	97	0.00	0.0	9.011	0.027	12	3	1	1
PL.31160	PL.31609	C	#4 ACSR	7.19Y	119.9	0.00	5.12	1.69	1	12	3	97	0.00	0.0	9.060	0.076	5	2	2	3
PL.31161	PL.31160	C	#1/0 ACSR	7.19Y	119.9	0.00	5.12	0.92	0	6	2	95	0.00	0.0	9.090	0.030	0	0	0	1
PL.31162	PL.31161	C	#1/0 ACSR	7.19Y	119.9	0.00	5.12	0.00	0	0	0	100	0.00	0.0	9.202	0.112	0	0	0	0
PL.31334	PL.31161	C	#1/0 ACSR	7.19Y	119.9	0.00	5.12	0.92	0	6	2	95	0.00	0.0	9.172	0.082	6	2	1	1
PL.31158	PL.31155	C	#1/0 ACSR	7.20Y	119.9	0.00	5.07	1.37	1	9	3	95	0.00	0.0	8.812	0.029	9	3	1	1
PL.31610	PL.31478	C	#1/0 ACSR	7.20Y	119.9	0.00	5.06	1.11	0	8	2	97	0.00	0.0	8.800	0.059	2	1	1	4
PL.31611	PL.31610	C	#1/0 ACSR	7.20Y	119.9	0.00	5.06	0.81	0	6	2	95	0.00	0.0	8.924	0.123	0	0	0	3
PL.31156	PL.31611	C	6 A (CWC)	7.20Y	119.9	0.00	5.06	0.02	0	0	0	100	0.00	0.0	9.043	0.120	0	0	0	1
PL.31157	PL.31156	C	#2 ACSR	7.20Y	119.9	0.00	5.06	0.02	0	0	0	100	0.00	0.0	9.087	0.043	0	0	1	1
PL.31335	PL.31611	C	#1/0 ACSR	7.20Y	119.9	0.00	5.06	0.78	0	5	2	93	0.00	0.0	9.059	0.135	0	0	0	2
PL.31479	PL.31335	C	#1/0 ACSR	7.20Y	119.9	0.00	5.06	0.78	0	5	2	93	0.00	0.0	9.205	0.146	0	0	1	2
PL.31163	PL.31479	C	#1/0 ACSR	7.20Y	119.9	0.00	5.06	0.75	0	5	1	98	0.00	0.0	9.313	0.108	5	1	1	1
PL.31153	PL.32048	C	#4 ACSR	7.20Y	120.1	0.00	4.94	0.42	0	3	1	95	0.00	0.0	8.371	0.052	3	1	1	1
PL.31330	PL.31718	C	6 A (CWC)	7.21Y	120.1	0.01	4.88	1.06	1	7	2	96	0.00	0.0	8.209	0.120	0	0	0	1
PL.31151	PL.31330	C	#4 ACSR	7.21Y	120.1	0.01	4.88	1.06	1	7	2	96	0.00	0.0	8.328	0.119	0	0	0	1
PL.31476	PL.31151	C	#4 ACSR	7.21Y	120.1	0.00	4.89	1.06	1	7	2	96	0.00	0.0	8.410	0.082	0	0	0	1
PL.31152	PL.31476	C	6 A (CWC)	7.21Y	120.1	0.00	4.89	1.06	1	7	2	96	0.00	0.0	8.594	0.185	7	2	1	1
PL.31148	PL.31147	C	#4 ACSR	7.22Y	120.3	0.00	4.72	1.21	1	8	2	97	0.00	0.0	7.678	0.070	8	2	1	1
PL.31144	PL.32046	C	#1/0 ACSR	7.23Y	120.4	0.00	4.57	0.08	0	1	0	100	0.00	0.0	7.289	0.055	1	0	2	2
PL.32015	PL.31586	C	#2 ACSR	7.24Y	120.6	0.00	4.41	0.25	0	2	1	89	0.00	0.0	7.049	0.004	0	0	0	2
PD.4312	PL.32015	C	40T	7.24Y	120.6	0.00	4.41	0.25	0	2	1	89	0.00	0.0	7.049	0.004	0	0	0	2
PL.32016	PD.4312	C	#2 ACSR	7.24Y	120.6	0.00	4.41	0.25	0	2	1	89	0.00	0.0	7.087	0.038	2	1	2	2
PL.32017	PL.31586	A	#2 ACSR	7.24Y	120.6	0.00	4.41	0.83	0	6	2	95	0.00	0.0	7.060	0.015	0	0	0	1
PD.4313	PL.32017	A	40T	7.24Y	120.6	0.00	4.41	0.83	0	6	2	95	0.00	0.0	7.060	0.015	0	0	0	1
PL.32018	PD.4313	A	#2 ACSR	7.24Y	120.6	0.00	4.41	0.83	0	6	2	95	0.00	0.0	7.091	0.030	6	2	1	1
PL.32013	PL.31590	C	#4 ACSR	7.27Y	121.2	0.00	3.78	1.78	1	12	4	95	0.00	0.0	6.324	0.005	0	0	0	2
PD.4311	PL.32013	C	65T	7.27Y	121.2	0.00	3.78	1.78	0	12	4	95	0.00	0.0	6.324	0.005	0	0	0	2

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32014	PD.4311	C	#4 ACSR	7.27Y	121.2	0.00	3.78	1.78	1	12	4	95	0.00	0.0	6.422	0.098	12	4	2	2
PL.31141	PL.31140	A	#4 ACSR	7.28Y	121.3	0.00	3.65	1.60	1	11	3	96	0.00	0.0	6.251	0.083	11	3	1	1
PL.32025	PL.31593	A	6 A (CWC)	7.30Y	121.6	0.00	3.39	1.69	1	12	3	97	0.00	0.0	5.875	0.005	0	0	0	2
PD.4318	PL.32025	A	65T	7.30Y	121.6	0.00	3.39	1.69	0	12	3	97	0.00	0.0	5.875	0.005	0	0	0	2
PL.32026	PD.4318	A	6 A (CWC)	7.30Y	121.6	0.00	3.40	1.69	1	12	3	97	0.00	0.0	5.973	0.098	12	3	2	2
PL.32031	PL.31742	C	#4 ACSR	7.31Y	121.8	0.00	3.19	1.10	1	8	2	97	0.00	0.0	5.651	0.005	0	0	0	1
PD.4321	PL.32031	C	65T	7.31Y	121.8	0.00	3.19	1.10	0	8	2	97	0.00	0.0	5.651	0.005	0	0	0	1
PL.32032	PD.4321	C	#4 ACSR	7.31Y	121.8	0.00	3.19	1.10	1	8	2	97	0.00	0.0	5.758	0.108	8	2	1	1
PL.32029	PL.31741	A	#1/0 ACSR	7.31Y	121.9	0.00	3.12	0.91	0	6	2	95	0.00	0.0	5.571	0.005	0	0	0	1
PD.4320	PL.32029	A	65T	7.31Y	121.9	0.00	3.12	0.91	0	6	2	95	0.00	0.0	5.571	0.005	0	0	0	1
PL.32030	PD.4320	A	#1/0 ACSR	7.31Y	121.9	0.00	3.12	0.91	0	6	2	95	0.00	0.0	5.604	0.033	6	2	1	1
PL.32027	PL.31131	C	6 A (CWC)	7.32Y	122.0	0.00	3.05	1.26	1	9	3	95	0.00	0.0	5.500	0.005	0	0	0	3
PD.4319	PL.32027	C	65T	7.32Y	122.0	0.00	3.05	1.26	0	9	3	95	0.00	0.0	5.500	0.005	0	0	0	3
PL.32028	PD.4319	C	6 A (CWC)	7.32Y	121.9	0.00	3.05	1.26	1	9	3	95	0.00	0.0	5.572	0.072	5	2	1	3
PL.31591	PL.32028	C	6 A (CWC)	7.32Y	121.9	0.00	3.05	0.48	0	3	1	95	0.00	0.0	5.674	0.102	0	0	0	1
PL.31592	PL.31591	C	6 A (CWC)	7.32Y	121.9	0.00	3.05	0.48	0	3	1	95	0.00	0.0	5.717	0.043	3	1	1	1
PL.31132	PL.32028	C	#1/0 ACSR	7.32Y	121.9	0.00	3.05	0.00	0	0	0	100	0.00	0.0	5.631	0.059	0	0	1	1
PL.32041	PL.31603	A	6 A (CWC)	7.34Y	122.3	0.00	2.70	1.33	1	9	3	95	0.00	0.0	5.131	0.005	0	0	0	3
PD.4326	PL.32041	A	65T	7.34Y	122.3	0.00	2.70	1.33	0	9	3	95	0.00	0.0	5.131	0.005	0	0	0	3
PL.32042	PD.4326	A	6 A (CWC)	7.34Y	122.3	0.00	2.70	1.33	1	9	3	95	0.00	0.0	5.200	0.069	0	0	0	3
PL.31128	PL.32042	A	6 A (CWC)	7.34Y	122.3	0.00	2.70	0.13	0	1	0	100	0.00	0.0	5.234	0.034	0	0	1	2
PL.31129	PL.31128	A	#2 ACSR	7.34Y	122.3	0.00	2.70	0.13	0	1	0	100	0.00	0.0	5.263	0.029	1	0	1	1
PL.31130	PL.32042	A	#1/0 ACSR	7.34Y	122.3	0.00	2.70	1.20	1	8	2	97	0.00	0.0	5.266	0.066	8	2	1	1
PL.32143	PL.31614	C	#4 ACSR	7.36Y	122.6	0.00	2.41	2.60	2	18	5	96	0.00	0.0	4.847	0.005	0	0	0	2
PD.4378	PL.32143	C	65T	7.36Y	122.6	0.00	2.41	2.60	0	18	5	96	0.00	0.0	4.847	0.005	0	0	0	2
PL.32144	PD.4378	C	#4 ACSR	7.36Y	122.6	0.00	2.42	2.60	2	18	5	96	0.00	0.0	4.879	0.032	18	5	2	2
PL.32053	PL.31614	B	#1/0 ACSR	7.36Y	122.6	0.00	2.42	17.64	8	125	36	96	0.00	0.0	4.847	0.005	0	0	0	20
PD.4332	PL.32053	B	65T	7.36Y	122.6	0.00	2.42	17.64	0	125	36	96	0.00	0.0	4.847	0.005	0	0	0	20
PL.32054	PD.4332	B	#1/0 ACSR	7.35Y	122.6	0.01	2.43	17.64	8	125	36	96	0.01	0.0	4.879	0.032	1	0	1	20
PL.31615	PL.32054	B	#1/0 ACSR	7.35Y	122.5	0.02	2.45	17.47	8	123	36	96	0.02	0.0	4.938	0.060	0	0	0	19
PL.31112	PL.31615	B	#1/0 ACSR	7.35Y	122.5	0.00	2.45	2.57	1	18	5	96	0.00	0.0	4.956	0.018	18	5	2	2

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31745	PL.31615	B	#1/0 ACSR	7.35Y	122.5	0.02	2.47	14.90	6	105	30	96	0.01	0.0	4.986	0.048	10	3	1	17
PL.31616	PL.31745	B	#1/0 ACSR	7.35Y	122.5	0.01	2.48	13.48	6	95	27	96	0.01	0.0	5.032	0.046	2	1	1	16
PL.31617	PL.31616	B	#1/0 ACSR	7.35Y	122.5	0.04	2.53	13.19	6	93	27	96	0.03	0.0	5.175	0.143	0	0	0	15
PL.32063	PL.31617	B	#1/0 ACSR	7.35Y	122.5	0.00	2.53	0.01	0	0	0	100	0.00	0.0	5.179	0.005	0	0	0	1
PD.4336	PL.32063	B	40T	7.35Y	122.5	0.00	2.53	0.01	0	0	0	100	0.00	0.0	5.179	0.005	0	0	0	1
PL.32064	PD.4336	B	#1/0 ACSR	7.35Y	122.5	0.00	2.53	0.01	0	0	0	100	0.00	0.0	5.278	0.099	0	0	1	1
PL.31321	PL.31617	B	#1/0 ACSR	7.35Y	122.4	0.05	2.57	12.08	5	85	25	96	0.03	0.0	5.344	0.169	0	0	0	13
PL.32065	PL.31321	B	#1/0 ACSR	7.35Y	122.4	0.00	2.57	0.89	0	6	2	95	0.00	0.0	5.348	0.005	0	0	0	1
PD.4337	PL.32065	B	40T	7.35Y	122.4	0.00	2.57	0.89	0	6	2	95	0.00	0.0	5.348	0.005	0	0	0	1
PL.32066	PD.4337	B	#1/0 ACSR	7.35Y	122.4	0.00	2.58	0.89	0	6	2	95	0.00	0.0	5.416	0.068	6	2	1	1
PL.31322	PL.31321	B	#1/0 ACSR	7.34Y	122.4	0.04	2.62	11.19	5	79	23	96	0.02	0.0	5.508	0.164	0	0	0	12
PL.31115	PL.31322	B	#4 ACSR	7.34Y	122.4	0.00	2.62	0.55	0	4	1	97	0.00	0.0	5.572	0.064	4	1	1	1
PL.31116	PL.31322	B	#1/0 ACSR	7.34Y	122.4	0.02	2.64	10.53	5	74	21	96	0.01	0.0	5.591	0.083	0	0	0	10
PL.31118	PL.31116	B	#1/0 ACSR	7.34Y	122.3	0.03	2.67	8.70	4	61	18	96	0.01	0.0	5.736	0.145	0	0	0	9
PL.31468	PL.31118	B	#1/0 ACSR	7.34Y	122.3	0.02	2.68	8.70	4	61	18	96	0.01	0.0	5.822	0.085	0	0	0	9
PL.31841	PL.31468	B	#4 ACSR	7.34Y	122.3	0.01	2.69	3.62	3	26	7	97	0.00	0.0	5.895	0.073	6	2	1	4
PL.31842	PL.31841	B	#4 ACSR	7.34Y	122.3	0.02	2.71	2.74	2	19	6	95	0.00	0.0	6.018	0.123	0	0	0	3
PL.31469	PL.31842	B	#4 ACSR	7.34Y	122.3	0.01	2.72	2.74	2	19	6	95	0.00	0.0	6.132	0.114	0	0	0	3
PL.31323	PL.31469	B	#4 ACSR	7.34Y	122.3	0.00	2.73	1.46	1	10	3	96	0.00	0.0	6.164	0.032	3	1	1	2
PL.31124	PL.31323	B	#1/0 ACSR	7.34Y	122.3	0.00	2.73	1.01	0	7	2	96	0.00	0.0	6.230	0.066	0	0	0	1
PL.31125	PL.31124	B	#1/0 ACSR	7.34Y	122.3	0.00	2.73	1.01	0	7	2	96	0.00	0.0	6.383	0.153	0	0	0	1
PL.32077	PL.31125	B	1/0 AL URD	7.34Y	122.3	0.00	2.73	1.01	1	7	2	96	0.00	0.0	6.387	0.005	0	0	0	1
PD.4343	PL.32077	B	40T	7.34Y	122.3	0.00	2.73	1.01	0	7	2	96	0.00	0.0	6.387	0.005	0	0	0	1
PL.32078	PD.4343	B	1/0 AL URD	7.34Y	122.3	0.00	2.73	1.01	1	7	2	96	0.00	0.0	6.457	0.069	0	0	0	1
PL.31470	PL.32078	B	1/0 AL URD	7.34Y	122.3	0.00	2.74	1.01	1	7	2	96	0.00	0.0	6.625	0.169	7	2	1	1
PL.31123	PL.31469	B	#4 ACSR	7.34Y	122.3	0.00	2.73	1.29	1	9	3	95	0.00	0.0	6.240	0.108	9	3	1	1
PL.31119	PL.31468	B	6 A (CWC)	7.34Y	122.3	0.04	2.72	5.08	4	36	10	96	0.01	0.0	5.974	0.152	0	0	0	5
PL.31120	PL.31119	B	#4 ACSR	7.34Y	122.3	0.00	2.72	0.00	0	0	0	100	0.00	0.0	6.091	0.117	0	0	0	0
PL.31612	PL.31119	B	6 A (CWC)	7.34Y	122.3	0.02	2.74	5.08	4	36	10	96	0.01	0.0	6.129	0.155	24	7	3	5
PL.31613	PL.31612	B	6 A (CWC)	7.34Y	122.3	0.01	2.75	1.74	1	12	4	95	0.00	0.0	6.202	0.073	0	0	0	2
PL.31740	PL.31613	B	6 A (CWC)	7.33Y	122.2	0.01	2.76	1.74	1	12	4	95	0.00	0.0	6.349	0.147	0	0	0	2

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32163	PL.31740	B	6 A (CWC)	7.33Y	122.2	0.00	2.76	0.00	0	0	0	100	0.00	0.0	6.384	0.035	0	0	0	0
PD.4388-A	PL.32163	B	Open	7.33Y	122.2	0.00	2.76	0.00	0	0	0	100	0.00	0.0	6.384	0.035	0	0	0	0
PL.31121	PL.31740	B	#1/0 ACSR	7.33Y	122.2	0.00	2.76	1.74	1	12	4	95	0.00	0.0	6.418	0.069	0	0	0	2
PL.31122	PL.31121	B	#1/0 ACSR	7.33Y	122.2	0.00	2.76	1.19	1	8	2	97	0.00	0.0	6.456	0.038	8	2	1	1
PL.31326	PL.31121	B	#1/0 ACSR	7.33Y	122.2	0.00	2.76	0.54	0	4	1	97	0.00	0.0	6.473	0.055	4	1	1	1
PL.31117	PL.31116	B	#4 ACSR	7.34Y	122.4	0.00	2.64	1.84	1	13	4	96	0.00	0.0	5.630	0.038	13	4	1	1
PL.31114	PL.31322	B	#4 ACSR	7.34Y	122.4	0.00	2.62	0.11	0	1	0	100	0.00	0.0	5.536	0.028	1	0	1	1
PL.31113	PL.31617	B	#1/0 ACSR	7.35Y	122.5	0.00	2.53	1.10	0	8	2	97	0.00	0.0	5.230	0.055	8	2	1	1
PL.32111	PL.31463	C	#4 ACSR	7.39Y	123.2	0.00	1.83	1.78	1	13	4	96	0.00	0.0	4.440	0.005	0	0	0	1
PD.4361	PL.32111	C	65T	7.39Y	123.2	0.00	1.83	1.78	0	13	4	96	0.00	0.0	4.440	0.005	0	0	0	1
PL.32112	PD.4361	C	#4 ACSR	7.39Y	123.2	0.00	1.83	1.78	1	13	4	96	0.00	0.0	4.452	0.012	13	4	1	1
PL.32037	PL.31461	C	#2 ACSR	7.43Y	123.9	0.00	1.13	0.27	0	2	1	89	0.00	0.0	4.066	0.005	0	0	0	1
PD.4324	PL.32037	C	65T	7.43Y	123.9	0.00	1.13	0.27	0	2	1	89	0.00	0.0	4.066	0.005	0	0	0	1
PL.32038	PD.4324	C	#2 ACSR	7.43Y	123.9	0.00	1.13	0.27	0	2	1	89	0.00	0.0	4.131	0.065	2	1	1	1
PL.32121	PL.31308	A	#2 ACSR	7.14Y	118.9	0.00	6.06	2.04	1	14	4	96	0.00	0.0	2.979	0.005	0	0	0	2
PD.4366	PL.32121	A	65T	7.14Y	118.9	0.00	6.06	2.04	0	14	4	96	0.00	0.0	2.979	0.005	0	0	0	2
PL.32122	PD.4366	A	#2 ACSR	7.14Y	118.9	0.00	6.06	2.04	1	14	4	96	0.00	0.0	3.000	0.020	7	2	1	2
PL.31769	PL.32122	A	#2 ACSR	7.14Y	118.9	0.00	6.06	0.98	1	7	2	96	0.00	0.0	3.044	0.044	7	2	1	1
PL.32123	PL.31460	C	#2 ACSR	7.15Y	119.1	0.00	5.90	0.00	0	0	0	100	0.00	0.0	2.902	0.005	0	0	0	0
PD.4367	PL.32123	C	65T	7.15Y	119.1	0.00	5.90	0.00	0	0	0	100	0.00	0.0	2.902	0.005	0	0	0	0
PL.32124	PD.4367	C	#2 ACSR	7.15Y	119.1	0.00	5.90	0.00	0	0	0	100	0.00	0.0	2.949	0.047	0	0	0	0
PL.32115	PL.31736	C	#2 ACSR	7.28Y	121.3	0.00	3.67	1.44	1	10	3	96	0.00	0.0	1.829	0.005	0	0	0	1
PD.4363	PL.32115	C	65T	7.28Y	121.3	0.00	3.67	1.44	0	10	3	96	0.00	0.0	1.829	0.005	0	0	0	1
PL.32116	PD.4363	C	#2 ACSR	7.28Y	121.3	0.00	3.68	1.44	1	10	3	96	0.00	0.0	1.860	0.030	10	3	1	1
PL.32109	PL.31072	C	#2 ACSR	7.38Y	123.1	0.00	1.93	1.59	1	11	3	96	0.00	0.0	1.001	0.005	0	0	0	3
PD.4360	PL.32109	C	65T	7.38Y	123.1	0.00	1.93	1.59	0	11	3	96	0.00	0.0	1.001	0.005	0	0	0	3
PL.32110	PD.4360	C	#2 ACSR	7.38Y	123.1	0.00	1.93	1.59	1	11	3	96	0.00	0.0	1.040	0.038	11	3	3	3
PL.32161	PL.31072	C	#2 ACSR	7.38Y	123.1	0.00	1.93	3.58	2	25	7	96	0.00	0.0	1.001	0.005	0	0	0	6
PD.4387	PL.32161	C	20T	7.38Y	123.1	0.00	1.93	3.58	0	25	7	96	0.00	0.0	1.001	0.005	0	0	0	6
PL.32162	PD.4387	C	#2 ACSR	7.38Y	123.1	0.00	1.94	3.58	2	25	7	96	0.00	0.0	1.043	0.042	7	2	1	6
PL.31076	PL.32162	C	#4 ACSR	7.38Y	123.0	0.01	1.95	2.53	2	18	5	96	0.00	0.0	1.170	0.126	0	0	0	5

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

Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31451	PL.31076	C	#4 ACSR	7.38Y	123.0	0.02	1.97	2.53	2	18	5	96	0.00	0.0	1.305	0.135	0	0	0	5
PL.31452	PL.31451	C	#4 ACSR	7.38Y	123.0	0.01	1.98	2.53	2	18	5	96	0.00	0.0	1.388	0.083	0	0	0	5
PL.31318	PL.31452	C	#4 ACSR	7.38Y	123.0	0.01	1.99	1.83	1	13	4	96	0.00	0.0	1.521	0.133	0	0	0	3
PL.31077	PL.31318	C	#4 ACSR	7.38Y	123.0	0.01	2.00	1.83	1	13	4	96	0.00	0.0	1.661	0.141	0	0	0	3
PL.31078	PL.31077	C	#4 ACSR	7.38Y	123.0	0.00	2.00	0.00	0	0	0	100	0.00	0.0	1.782	0.121	0	0	1	1
PL.31319	PL.31077	C	#4 ACSR	7.38Y	123.0	0.00	2.00	1.83	1	13	4	96	0.00	0.0	1.740	0.079	13	4	2	2
PL.31075	PL.31452	C	#4 ACSR	7.38Y	123.0	0.00	1.98	0.70	1	5	1	98	0.00	0.0	1.475	0.087	5	1	2	2
PL.31951	PL.31450	C	#2 ACSR	7.39Y	123.2	0.00	1.84	0.23	0	2	0	100	0.00	0.0	0.956	0.005	0	0	0	6
PD.4277	PL.31951	C	65T	7.39Y	123.2	0.00	1.84	0.23	0	2	0	100	0.00	0.0	0.956	0.005	0	0	0	6
PL.31952	PD.4277	C	#2 ACSR	7.39Y	123.2	0.00	1.84	0.23	0	2	0	100	0.00	0.0	1.047	0.091	1	0	4	6
PL.31073	PL.31952	C	#2 ACSR	7.39Y	123.2	0.00	1.84	0.10	0	1	0	100	0.00	0.0	1.235	0.188	1	0	2	2
PL.31763	PL.31360	A	#4 ACSR	7.43Y	123.9	0.03	1.12	13.71	11	98	28	96	0.02	0.0	0.657	0.055	0	0	0	34
PL.31764	PL.31763	A	#4 ACSR	7.43Y	123.8	0.04	1.16	13.71	11	98	28	96	0.03	0.0	0.723	0.066	11	3	2	34
PL.32188	PL.31764	A	6 A (CWC)	7.43Y	123.8	0.00	1.16	12.12	9	87	25	96	0.00	0.0	0.726	0.003	0	0	0	32
PD.4401	PL.32188	A	35L	7.43Y	123.8	0.00	1.16	12.12	35	87	25	96	0.00	0.0	0.726	0.003	0	0	0	32
PL.32189	PD.4401	A	6 A (CWC)	7.43Y	123.8	0.05	1.21	12.12	9	87	25	96	0.03	0.0	0.822	0.096	0	0	0	32
PL.31361	PL.32189	A	6 A (CWC)	7.42Y	123.7	0.05	1.27	12.12	9	87	25	96	0.03	0.0	0.921	0.098	3	1	1	32
PL.30502	PL.31361	A	6 A (CWC)	7.42Y	123.7	0.07	1.34	11.72	8	84	24	96	0.04	0.0	1.045	0.124	0	0	0	31
PL.31320	PL.30502	A	6 A (CWC)	7.42Y	123.6	0.05	1.39	11.32	8	81	23	96	0.03	0.0	1.148	0.103	0	0	0	30
PL.30504	PL.31320	A	#1/0 ACSR	7.42Y	123.6	0.00	1.39	1.27	1	9	3	95	0.00	0.0	1.177	0.029	9	3	2	2
PL.30505	PL.31320	A	6 A (CWC)	7.41Y	123.6	0.06	1.45	10.05	7	72	21	96	0.03	0.0	1.278	0.130	0	0	0	28
PL.31761	PL.30505	A	#4 ACSR	7.41Y	123.5	0.03	1.48	10.05	8	72	21	96	0.02	0.0	1.355	0.077	5	1	1	28
PL.31762	PL.31761	A	#4 ACSR	7.41Y	123.5	0.06	1.54	9.40	7	67	19	96	0.03	0.0	1.490	0.135	0	0	0	27
PL.30506	PL.31762	A	#4 ACSR	7.41Y	123.5	0.00	1.54	0.79	1	6	2	95	0.00	0.0	1.515	0.025	6	2	1	1
PL.31733	PL.31762	A	#4 ACSR	7.41Y	123.4	0.04	1.58	8.61	7	61	18	96	0.02	0.0	1.605	0.115	0	0	1	26
PL.30507	PL.31733	A	#1/0 ACSR	7.41Y	123.4	0.00	1.58	0.00	0	0	0	100	0.00	0.0	1.718	0.113	0	0	1	1
PL.32171	PL.31733	A	#4 ACSR	7.40Y	123.4	0.00	1.58	8.60	7	61	18	96	0.00	0.0	1.609	0.005	0	0	0	24
PD.4392-A	PL.32171	A	Closed	7.40Y	123.4	0.00	1.58	8.60	0	61	18	96	0.00	0.0	1.609	0.005	0	0	0	24
PD.4392-B	PD.4392-A	A	Closed	7.40Y	123.4	0.00	1.58	8.60	0	61	18	96	0.00	0.0	1.609	0.005	0	0	0	24
PL.32172	PD.4392-B	A	#4 ACSR	7.40Y	123.4	0.06	1.64	8.60	7	61	18	96	0.03	0.0	1.756	0.147	0	0	0	24
PL.31362	PL.32172	A	#4 ACSR	7.40Y	123.3	0.07	1.71	8.60	7	61	18	96	0.03	0.1	1.930	0.174	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: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31363	PL.31362	A	#4 ACSR	7.40Y	123.3	0.03	1.74	8.60	7	61	18	96	0.02	0.0	2.020	0.091	0	0	0	24
PL.30508	PL.31363	A	#4 ACSR	7.39Y	123.2	0.07	1.81	8.60	7	61	18	96	0.03	0.1	2.196	0.176	0	0	0	24
PL.31364	PL.30508	A	#4 ACSR	7.39Y	123.1	0.06	1.87	8.60	7	61	18	96	0.03	0.0	2.344	0.148	0	0	0	24
PL.31750	PL.31364	A	#4 ACSR	7.39Y	123.1	0.03	1.90	8.60	7	61	18	96	0.02	0.0	2.437	0.092	2	1	1	24
PL.31751	PL.31750	A	#4 ACSR	7.38Y	123.1	0.03	1.93	8.29	6	59	17	96	0.01	0.0	2.511	0.075	0	0	0	23
PL.31945	PL.31751	A	#4 ACSR	7.38Y	123.1	0.00	1.93	6.88	5	49	14	96	0.00	0.0	2.516	0.005	0	0	0	21
PD.4274	PL.31945	A	15T	7.38Y	123.1	0.00	1.93	6.88	0	49	14	96	0.00	0.0	2.516	0.005	0	0	0	21
PL.31946	PD.4274	A	#4 ACSR	7.38Y	123.0	0.03	1.96	6.88	5	49	14	96	0.01	0.0	2.601	0.085	0	0	0	21
PL.31069	PL.31946	A	#4 ACSR	7.38Y	123.0	0.04	2.00	6.88	5	49	14	96	0.02	0.0	2.747	0.146	0	0	0	21
PL.31371	PL.31069	A	#4 ACSR	7.38Y	123.0	0.03	2.03	6.88	5	49	14	96	0.01	0.0	2.833	0.086	0	0	0	21
PL.31932	PL.31371	A	#4 ACSR	7.38Y	123.0	0.02	2.05	5.81	4	41	12	96	0.01	0.0	2.907	0.074	0	0	0	17
PL.31933	PL.31932	A	#4 ACSR	7.37Y	122.9	0.05	2.09	5.81	4	41	12	96	0.01	0.0	3.081	0.173	0	0	0	17
PL.31311	PL.31933	A	#4 ACSR	7.37Y	122.9	0.03	2.12	4.51	3	32	9	96	0.01	0.0	3.217	0.136	0	0	0	16
PL.31287	PL.31311	A	#4 ACSR	7.37Y	122.9	0.00	2.12	0.16	0	1	0	100	0.00	0.0	3.387	0.170	1	0	1	1
PL.31288	PL.31311	A	#4 ACSR	7.37Y	122.9	0.00	2.12	0.37	0	3	1	95	0.00	0.0	3.367	0.150	0	0	0	2
PL.31313	PL.31288	A	#4 ACSR	7.37Y	122.9	0.00	2.12	0.01	0	0	0	100	0.00	0.0	3.457	0.090	0	0	0	1
PL.31373	PL.31313	A	#4 ACSR	7.37Y	122.9	0.00	2.12	0.01	0	0	0	100	0.00	0.0	3.601	0.144	0	0	1	1
PL.31289	PL.31288	A	#4 ACSR	7.37Y	122.9	0.00	2.12	0.36	0	3	1	95	0.00	0.0	3.405	0.038	3	1	1	1
PL.31312	PL.31311	A	#4 ACSR	7.37Y	122.9	0.02	2.14	3.98	3	28	8	96	0.00	0.0	3.305	0.088	0	0	0	13
PL.31929	PL.31312	A	#4 ACSR	7.37Y	122.8	0.02	2.15	3.98	3	28	8	96	0.00	0.0	3.402	0.098	7	2	1	13
PL.31928	PL.31929	A	#4 ACSR	7.37Y	122.8	0.01	2.16	2.94	2	21	6	96	0.00	0.0	3.499	0.097	4	1	1	12
PL.32107	PL.31928	A	6 A (CWC)	7.37Y	122.8	0.00	2.17	2.45	2	17	5	96	0.00	0.0	3.528	0.029	0	0	0	11
PD.4359	PL.32107	A	15T	7.37Y	122.8	0.00	2.17	2.45	0	17	5	96	0.00	0.0	3.528	0.029	0	0	0	11
PL.32108	PD.4359	A	6 A (CWC)	7.37Y	122.8	0.01	2.18	2.45	2	17	5	96	0.00	0.0	3.641	0.113	0	0	0	11
PL.31314	PL.32108	A	6 A (CWC)	7.37Y	122.8	0.01	2.19	2.39	2	17	5	96	0.00	0.0	3.741	0.100	0	0	0	10
PL.31721	PL.31314	A	6 A (CWC)	7.37Y	122.8	0.01	2.20	2.39	2	17	5	96	0.00	0.0	3.860	0.119	0	0	0	10
PL.31374	PL.31721	A	6 A (CWC)	7.37Y	122.8	0.02	2.23	2.39	2	17	5	96	0.00	0.0	4.072	0.211	0	0	0	10
PL.31283	PL.31374	A	#4 ACSR	7.37Y	122.8	0.00	2.23	0.56	0	4	1	97	0.00	0.0	4.162	0.091	0	0	0	3
PL.31375	PL.31283	A	#4 ACSR	7.37Y	122.8	0.00	2.23	0.56	0	4	1	97	0.00	0.0	4.351	0.189	0	0	0	3
PL.31925	PL.31375	A	#4 ACSR	7.37Y	122.8	0.00	2.23	0.56	0	4	1	97	0.00	0.0	4.401	0.050	0	0	1	3
PL.31926	PL.31925	A	#4 ACSR	7.37Y	122.8	0.00	2.23	0.56	0	4	1	97	0.00	0.0	4.444	0.044	4	1	1	2

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31927	PL.31926	A	#4 ACSR	7.37Y	122.8	0.00	2.23	0.05	0	0	0	100	0.00	0.0	4.503	0.059	0	0	1	1
PL.31284	PL.31374	A	6 A (CWC)	7.37Y	122.8	0.00	2.23	0.56	0	4	1	97	0.00	0.0	4.245	0.173	0	0	0	1
PL.31376	PL.31284	A	6 A (CWC)	7.37Y	122.8	0.00	2.23	0.56	0	4	1	97	0.00	0.0	4.431	0.186	4	1	1	1
PL.31315	PL.31374	A	6 A (CWC)	7.37Y	122.8	0.01	2.24	1.26	1	9	3	95	0.00	0.0	4.254	0.182	0	0	0	6
PL.31377	PL.31315	A	6 A (CWC)	7.37Y	122.8	0.01	2.24	1.26	1	9	3	95	0.00	0.0	4.384	0.130	0	0	0	6
PL.31378	PL.31377	A	6 A (CWC)	7.37Y	122.8	0.01	2.25	1.26	1	9	3	95	0.00	0.0	4.473	0.089	0	0	0	6
PL.31923	PL.31378	A	6 A (CWC)	7.37Y	122.8	0.00	2.25	0.06	0	0	0	100	0.00	0.0	4.621	0.148	0	0	1	1
PL.31924	PL.31923	A	6 A (CWC)	7.37Y	122.8	0.00	2.25	0.00	0	0	0	100	0.00	0.0	4.733	0.112	0	0	0	0
PL.31921	PL.31378	A	#4 ACSR	7.36Y	122.7	0.00	2.25	1.20	1	9	2	98	0.00	0.0	4.554	0.081	8	2	2	5
PL.31922	PL.31921	A	#4 ACSR	7.36Y	122.7	0.00	2.25	0.03	0	0	0	100	0.00	0.0	4.611	0.057	0	0	1	3
PL.31285	PL.31922	A	#4 ACSR	7.36Y	122.7	0.00	2.25	0.02	0	0	0	100	0.00	0.0	4.650	0.039	0	0	1	1
PL.31316	PL.31922	A	#4 ACSR	7.36Y	122.7	0.00	2.25	0.00	0	0	0	100	0.00	0.0	4.662	0.050	0	0	1	1
PL.31282	PL.32108	A	#4 ACSR	7.37Y	122.8	0.00	2.18	0.06	0	0	0	100	0.00	0.0	3.761	0.120	0	0	1	1
PL.31281	PL.31928	A	#4 ACSR	7.37Y	122.8	0.00	2.16	0.00	0	0	0	100	0.00	0.0	3.678	0.179	0	0	0	0
PL.31286	PL.31312	A	#4 ACSR	7.37Y	122.9	0.00	2.14	0.00	0	0	0	100	0.00	0.0	3.376	0.072	0	0	0	0
PL.30512	PL.31933	A	#1/0 ACSR	7.37Y	122.9	0.00	2.10	1.30	1	9	3	95	0.00	0.0	3.269	0.188	9	3	1	1
PL.31070	PL.31371	A	#4 ACSR	7.38Y	123.0	0.01	2.04	1.07	1	8	2	97	0.00	0.0	2.969	0.136	0	0	0	4
PL.31930	PL.31070	A	#4 ACSR	7.38Y	123.0	0.01	2.04	1.07	1	8	2	97	0.00	0.0	3.104	0.135	1	0	1	4
PL.31931	PL.31930	A	#4 ACSR	7.38Y	123.0	0.00	2.04	0.87	1	6	2	95	0.00	0.0	3.188	0.084	2	0	1	3
PL.31290	PL.31931	A	#4 ACSR	7.38Y	123.0	0.00	2.04	0.64	0	5	1	98	0.00	0.0	3.232	0.045	5	1	1	1
PL.31310	PL.31931	A	#4 ACSR	7.38Y	123.0	0.00	2.04	0.02	0	0	0	100	0.00	0.0	3.281	0.094	0	0	0	1
PL.31372	PL.31310	A	#4 ACSR	7.38Y	123.0	0.00	2.04	0.02	0	0	0	100	0.00	0.0	3.410	0.129	0	0	1	1
PL.30509	PL.31751	A	#4 ACSR	7.38Y	123.1	0.01	1.94	1.41	1	10	3	96	0.00	0.0	2.634	0.123	5	2	1	2
PL.31943	PL.30509	A	#4 ACSR	7.38Y	123.1	0.00	1.94	0.66	1	5	1	98	0.00	0.0	2.729	0.095	0	0	0	1
PD.4273	PL.31943	A	15T	7.38Y	123.1	0.00	1.94	0.66	0	5	1	98	0.00	0.0	2.729	0.095	0	0	0	1
PL.31944	PD.4273	A	#4 ACSR	7.38Y	123.1	0.01	1.94	0.66	1	5	1	98	0.00	0.0	2.905	0.176	0	0	0	1
PL.31367	PL.31944	A	#4 ACSR	7.38Y	123.1	0.00	1.95	0.66	1	5	1	98	0.00	0.0	3.040	0.135	0	0	0	1
PL.31369	PL.31367	A	#4 ACSR	7.38Y	123.0	0.00	1.95	0.66	1	5	1	98	0.00	0.0	3.135	0.095	0	0	0	1
PL.31368	PL.31369	A	#4 ACSR	7.38Y	123.0	0.00	1.96	0.66	1	5	1	98	0.00	0.0	3.296	0.161	0	0	0	1
PL.31370	PL.31368	A	#4 ACSR	7.38Y	123.0	0.00	1.96	0.66	1	5	1	98	0.00	0.0	3.445	0.149	5	1	1	1
PL.30503	PL.30502	A	6 A (CWC)	7.42Y	123.7	0.00	1.34	0.41	0	3	1	95	0.00	0.0	1.215	0.170	3	1	1	1

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

Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32606	Greenhall	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	48.62	9	1044	326	95	0.00	0.0	0.008	0.008	0	0	0	290
PL.32684	PL.32606	ABC	397 SPACER	7.50Y	125.0	0.00	0.00	48.62	9	1044	326	95	0.00	0.0	0.012	0.004	0	0	0	290
---------- Feeder No. 5 (Trav Rest F5) Beginning with Device PD.5286 ----------																				
PD.5286	PL.32684	ABC	480VWE	7.50Y	125.0	0.00	0.00	48.62	0	1044	326	95	0.00	0.0	0.012	0.004	0	0	0	290
PL.32685	PD.5286	ABC	397 SPACER	7.50Y	125.0	0.03	0.03	48.62	9	1044	326	95	0.05	0.0	0.172	0.160	0	0	0	290
PL.32510	PL.32685	ABC	336 MCM AC	7.50Y	125.0	0.02	0.05	48.62	9	1044	325	95	0.11	0.0	0.226	0.054	0	0	0	290
PL.32511	PL.32510	ABC	336 MCM AC	7.49Y	124.9	0.05	0.10	48.62	9	1044	325	95	0.27	0.0	0.363	0.137	0	0	0	290
PL.32306	PL.32511	ABC	336 MCM AC	7.49Y	124.9	0.02	0.12	48.32	9	1037	322	96	0.13	0.0	0.428	0.065	0	0	0	289
PL.32307	PL.32306	ABC	336 MCM AC	7.49Y	124.8	0.07	0.19	48.27	9	1036	322	95	0.35	0.0	0.606	0.178	0	0	0	287
PL.32586	PL.32307	C	#1/0 ACSR	7.49Y	124.8	0.00	0.19	0.42	0	3	1	95	0.00	0.0	0.611	0.005	0	0	0	1
PD.4443	PL.32586	C	65T	7.49Y	124.8	0.00	0.19	0.42	0	3	1	95	0.00	0.0	0.611	0.005	0	0	0	1
PL.32587	PD.4443	C	#1/0 ACSR	7.49Y	124.8	0.00	0.19	0.42	0	3	1	95	0.00	0.0	0.655	0.044	0	0	0	1
PL.32202	PL.32587	C	6 A (CWC)	7.49Y	124.8	0.00	0.19	0.42	0	3	1	95	0.00	0.0	0.736	0.081	0	0	0	1
PL.32344	PL.32202	C	6 A (CWC)	7.49Y	124.8	0.00	0.19	0.42	0	3	1	95	0.00	0.0	0.851	0.115	0	0	0	1
PL.32342	PL.32344	C	6 A (CWC)	7.49Y	124.8	0.00	0.20	0.42	0	3	1	95	0.00	0.0	0.985	0.133	0	0	0	1
PL.32343	PL.32342	C	6 A (CWC)	7.49Y	124.8	0.00	0.20	0.42	0	3	1	95	0.00	0.0	1.079	0.095	3	1	1	1
PL.32308	PL.32307	ABC	336 MCM AC	7.48Y	124.7	0.06	0.25	48.13	9	1033	320	96	0.33	0.0	0.773	0.167	0	0	0	286
PL.32309	PL.32308	ABC	336 MCM AC	7.48Y	124.7	0.02	0.27	48.04	9	1031	319	96	0.10	0.0	0.824	0.051	0	0	0	284
PL.32203	PL.32309	ABC	336 MCM AC	7.48Y	124.7	0.01	0.28	48.04	9	1031	319	96	0.08	0.0	0.863	0.039	0	0	0	284
PL.32204	PL.32203	ABC	336 MCM AC	7.48Y	124.7	0.02	0.30	48.04	9	1030	318	96	0.09	0.0	0.909	0.046	4	1	1	284
PL.32205	PL.32204	ABC	336 MCM AC	7.48Y	124.7	0.02	0.32	47.85	9	1026	317	96	0.11	0.0	0.966	0.058	0	0	0	283
PL.32206	PL.32205	ABC	336 MCM AC	7.48Y	124.7	0.02	0.34	47.85	9	1026	317	96	0.11	0.0	1.026	0.059	0	0	0	283
PL.32207	PL.32206	ABC	336 MCM AC	7.48Y	124.6	0.02	0.37	47.85	9	1026	317	96	0.12	0.0	1.085	0.060	0	0	0	283
PL.32208	PL.32207	ABC	336 MCM AC	7.48Y	124.6	0.02	0.39	47.85	9	1026	316	96	0.11	0.0	1.142	0.056	0	0	0	283
PL.32209	PL.32208	ABC	336 MCM AC	7.48Y	124.6	0.02	0.41	47.85	9	1026	316	96	0.13	0.0	1.207	0.065	0	0	0	283
PL.32210	PL.32209	ABC	336 MCM AC	7.47Y	124.6	0.03	0.44	47.85	9	1026	316	96	0.15	0.0	1.283	0.076	0	0	0	283
PL.32211	PL.32210	ABC	336 MCM AC	7.47Y	124.5	0.02	0.46	46.91	9	1005	310	96	0.08	0.0	1.329	0.046	0	0	0	276
PL.32213	PL.32211	ABC	336 MCM AC	7.47Y	124.5	0.02	0.48	46.91	9	1005	309	96	0.11	0.0	1.386	0.057	0	0	0	276
PL.32214	PL.32213	ABC	336 MCM AC	7.47Y	124.5	0.02	0.50	46.91	9	1005	309	96	0.10	0.0	1.440	0.055	0	0	0	276

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: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32215	PL.32214	ABC	336 MCM AC	7.47Y	124.5	0.02	0.52	46.91	9	1005	309	96	0.11	0.0	1.497	0.057	0	0	0	276
PL.32216	PL.32215	ABC	336 MCM AC	7.47Y	124.5	0.02	0.54	46.80	9	1003	308	96	0.11	0.0	1.558	0.060	0	0	0	275
PL.32217	PL.32216	ABC	336 MCM AC	7.47Y	124.4	0.02	0.56	46.80	9	1002	308	96	0.10	0.0	1.610	0.053	0	0	0	275
PL.32218	PL.32217	ABC	336 MCM AC	7.47Y	124.4	0.03	0.58	46.80	9	1002	307	96	0.13	0.0	1.681	0.071	0	0	0	275
PL.32219	PL.32218	ABC	336 MCM AC	7.46Y	124.4	0.02	0.61	46.80	9	1002	307	96	0.12	0.0	1.745	0.064	0	0	0	275
PL.32220	PL.32219	ABC	336 MCM AC	7.46Y	124.4	0.03	0.63	46.80	9	1002	307	96	0.13	0.0	1.818	0.073	0	0	0	275
PL.32221	PL.32220	ABC	336 MCM AC	7.46Y	124.3	0.02	0.65	46.80	9	1002	307	96	0.10	0.0	1.872	0.054	0	0	0	275
PL.32222	PL.32221	ABC	336 MCM AC	7.46Y	124.3	0.02	0.67	46.80	9	1002	306	96	0.10	0.0	1.925	0.054	0	0	0	275
PL.32223	PL.32222	ABC	336 MCM AC	7.46Y	124.3	0.02	0.69	46.80	9	1002	306	96	0.10	0.0	1.979	0.054	0	0	0	275
PL.32224	PL.32223	ABC	336 MCM AC	7.46Y	124.3	0.03	0.72	46.80	9	1002	306	96	0.14	0.0	2.058	0.078	0	0	0	275
PL.32225	PL.32224	ABC	336 MCM AC	7.46Y	124.3	0.02	0.73	46.80	9	1001	306	96	0.09	0.0	2.105	0.047	0	0	0	275
PL.32226	PL.32225	ABC	336 MCM AC	7.45Y	124.2	0.02	0.75	46.06	9	985	301	96	0.10	0.0	2.161	0.056	0	0	0	272
PL.32228	PL.32226	ABC	336 MCM AC	7.45Y	124.2	0.02	0.78	46.06	9	985	301	96	0.12	0.0	2.226	0.065	0	0	0	272
PL.32229	PL.32228	ABC	336 MCM AC	7.45Y	124.2	0.03	0.81	46.06	9	985	300	96	0.17	0.0	2.324	0.097	6	2	1	272
PL.32230	PL.32229	ABC	336 MCM AC	7.45Y	124.2	0.02	0.83	45.76	9	979	298	96	0.09	0.0	2.372	0.048	0	0	0	271
PL.32232	PL.32230	ABC	336 MCM AC	7.45Y	124.2	0.02	0.84	45.76	9	979	298	96	0.08	0.0	2.418	0.046	5	1	1	271
PL.32233	PL.32232	ABC	336 MCM AC	7.45Y	124.1	0.02	0.87	45.54	9	974	296	96	0.12	0.0	2.488	0.070	0	0	0	270
PL.32234	PL.32233	ABC	336 MCM AC	7.45Y	124.1	0.02	0.89	45.54	9	973	296	96	0.12	0.0	2.559	0.071	0	0	0	270
PL.32235	PL.32234	ABC	336 MCM AC	7.45Y	124.1	0.02	0.91	45.54	9	973	296	96	0.09	0.0	2.611	0.052	0	0	0	270
PL.32574	PL.32235	ABC	336 MCM AC	7.44Y	124.1	0.04	0.95	45.54	9	973	295	96	0.18	0.0	2.711	0.101	0	0	0	270
PL.32575	PL.32574	ABC	336 MCM AC	7.44Y	124.1	0.00	0.95	45.54	9	973	295	96	0.01	0.0	2.716	0.004	0	0	0	270
PL.32236	PL.32575	ABC	336 MCM AC	7.44Y	124.0	0.02	0.96	45.54	9	973	295	96	0.08	0.0	2.762	0.047	0	0	0	270
PL.32237	PL.32236	ABC	336 MCM AC	7.44Y	124.0	0.03	0.99	45.54	9	973	295	96	0.14	0.0	2.845	0.082	0	0	0	270
PL.32238	PL.32237	ABC	336 MCM AC	7.44Y	124.0	0.03	1.02	45.54	9	973	294	96	0.14	0.0	2.924	0.079	0	0	0	270
PL.32239	PL.32238	ABC	336 MCM AC	7.44Y	124.0	0.02	1.04	45.54	9	973	294	96	0.11	0.0	2.984	0.061	0	0	0	270
PL.32568	PL.32239	C	#4 ACSR	7.44Y	124.0	0.00	1.04	1.50	1	11	3	96	0.00	0.0	2.988	0.004	0	0	0	2
PD.4435	PL.32568	C	65T	7.44Y	124.0	0.00	1.04	1.50	0	11	3	96	0.00	0.0	2.988	0.004	0	0	0	2
PL.32569	PD.4435	C	#4 ACSR	7.44Y	124.0	0.00	1.04	1.50	1	11	3	96	0.00	0.0	3.008	0.020	11	3	2	2
PL.32240	PL.32239	ABC	336 MCM AC	7.44Y	123.9	0.03	1.07	45.04	9	962	291	96	0.13	0.0	3.059	0.075	0	0	0	268
PL.32241	PL.32240	ABC	336 MCM AC	7.43Y	123.9	0.03	1.09	45.04	9	962	291	96	0.12	0.0	3.132	0.073	0	0	0	268
PL.32242	PL.32241	ABC	336 MCM AC	7.43Y	123.9	0.02	1.11	45.04	9	962	290	96	0.08	0.0	3.177	0.045	0	0	0	268

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: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32243	PL.32242	ABC	336 MCM AC	7.43Y	123.9	0.02	1.12	45.04	9	962	290	96	0.08	0.0	3.225	0.047	0	0	0	268
PL.32244	PL.32243	ABC	336 MCM AC	7.43Y	123.9	0.02	1.14	45.04	9	961	290	96	0.10	0.0	3.281	0.056	0	0	0	268
PL.32245	PL.32244	ABC	336 MCM AC	7.43Y	123.8	0.02	1.16	45.04	9	961	290	96	0.08	0.0	3.327	0.046	0	0	0	268
PL.32246	PL.32245	ABC	336 MCM AC	7.43Y	123.8	0.02	1.18	45.04	9	961	289	96	0.08	0.0	3.376	0.049	0	0	0	268
PL.32247	PL.32246	ABC	336 MCM AC	7.43Y	123.8	0.02	1.19	45.04	9	961	289	96	0.09	0.0	3.426	0.050	0	0	0	268
PL.32248	PL.32247	ABC	336 MCM AC	7.43Y	123.8	0.02	1.22	45.04	9	961	289	96	0.10	0.0	3.487	0.061	0	0	0	268
PL.32249	PL.32248	ABC	336 MCM AC	7.43Y	123.8	0.02	1.24	45.04	9	961	289	96	0.10	0.0	3.546	0.058	0	0	0	268
PL.32250	PL.32249	ABC	336 MCM AC	7.42Y	123.7	0.03	1.26	45.04	9	961	289	96	0.13	0.0	3.621	0.075	0	0	0	268
PL.32251	PL.32250	ABC	336 MCM AC	7.42Y	123.7	0.02	1.28	45.04	9	961	288	96	0.10	0.0	3.682	0.061	0	0	0	268
PL.32252	PL.32251	ABC	336 MCM AC	7.42Y	123.7	0.01	1.29	45.04	9	961	288	96	0.06	0.0	3.720	0.037	0	0	0	268
PL.32253	PL.32252	ABC	336 MCM AC	7.42Y	123.7	0.04	1.33	45.04	9	961	288	96	0.18	0.0	3.823	0.103	0	0	0	268
PL.32566	PL.32253	C	6 A (CWC)	7.42Y	123.7	0.00	1.33	0.64	0	5	1	98	0.00	0.0	3.827	0.004	0	0	0	4
PD.4434	PL.32566	C	65T	7.42Y	123.7	0.00	1.33	0.64	0	5	1	98	0.00	0.0	3.827	0.004	0	0	0	4
PL.32567	PD.4434	C	6 A (CWC)	7.42Y	123.7	0.00	1.33	0.64	0	5	1	98	0.00	0.0	3.886	0.060	0	0	0	4
PL.32255	PL.32567	C	6 A (CWC)	7.42Y	123.7	0.00	1.33	0.46	0	3	1	95	0.00	0.0	4.000	0.114	3	1	3	3
PL.32310	PL.32567	C	6 A (CWC)	7.42Y	123.7	0.00	1.33	0.18	0	1	0	100	0.00	0.0	3.913	0.027	1	0	1	1
PL.32594	PL.32253	C	6 A (CWC)	7.42Y	123.7	0.00	1.33	1.09	1	8	2	97	0.00	0.0	3.826	0.004	0	0	0	2
PD.4447	PL.32594	C	65T	7.42Y	123.7	0.00	1.33	1.09	0	8	2	97	0.00	0.0	3.826	0.004	0	0	0	2
PL.32595	PD.4447	C	6 A (CWC)	7.42Y	123.7	0.01	1.34	1.09	1	8	2	97	0.00	0.0	3.938	0.111	0	0	0	2
PL.32433	PL.32595	C	6 A (CWC)	7.42Y	123.7	0.01	1.34	1.09	1	8	2	97	0.00	0.0	4.058	0.121	0	0	0	2
PL.32345	PL.32433	C	6 A (CWC)	7.42Y	123.7	0.01	1.35	1.09	1	8	2	97	0.00	0.0	4.176	0.118	0	0	0	2
PL.32257	PL.32345	C	6 A (CWC)	7.42Y	123.6	0.01	1.35	1.09	1	8	2	97	0.00	0.0	4.300	0.124	0	0	0	2
PL.32311	PL.32257	C	6 A (CWC)	7.42Y	123.6	0.00	1.35	0.19	0	1	0	100	0.00	0.0	4.373	0.073	0	0	0	1
PL.32346	PL.32311	C	6 A (CWC)	7.42Y	123.6	0.00	1.36	0.19	0	1	0	100	0.00	0.0	4.489	0.116	0	0	0	1
PL.32259	PL.32346	C	6 A (CWC)	7.42Y	123.6	0.00	1.36	0.19	0	1	0	100	0.00	0.0	4.577	0.088	0	0	0	1
PL.32260	PL.32259	C	#4 ACSR	7.42Y	123.6	0.00	1.36	0.19	0	1	0	100	0.00	0.0	4.617	0.040	1	0	1	1
PL.32258	PL.32257	C	#1/0 ACSR	7.42Y	123.6	0.00	1.36	0.90	0	6	2	95	0.00	0.0	4.384	0.085	6	2	1	1
PL.32254	PL.32253	ABC	336 MCM AC	7.42Y	123.6	0.04	1.37	44.46	9	948	284	96	0.18	0.0	3.929	0.106	0	0	0	262
PL.32347	PL.32254	ABC	336 MCM AC	7.42Y	123.6	0.04	1.41	44.46	9	948	284	96	0.20	0.0	4.046	0.118	0	0	0	262
PL.32348	PL.32347	ABC	336 MCM AC	7.41Y	123.6	0.04	1.44	44.46	9	948	283	96	0.19	0.0	4.161	0.114	0	0	0	262
PL.32349	PL.32348	ABC	336 MCM AC	7.41Y	123.5	0.04	1.49	44.46	9	947	283	96	0.21	0.0	4.288	0.128	0	0	0	262

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32261	PL.32349	ABC	336 MCM AC	7.41Y	123.5	0.04	1.53	44.18	9	941	280	96	0.19	0.0	4.401	0.113	0	0	0	261
PL.32431	PL.32261	ABC	336 MCM AC	7.41Y	123.4	0.04	1.57	44.18	9	941	280	96	0.21	0.0	4.531	0.130	0	0	0	261
PL.32432	PL.32431	ABC	336 MCM AC	7.41Y	123.4	0.00	1.57	43.56	8	928	276	96	0.01	0.0	4.535	0.004	0	0	0	257
PL.32430	PL.32432	ABC	336 MCM AC	7.40Y	123.4	0.03	1.60	43.56	8	928	276	96	0.14	0.0	4.623	0.088	0	0	0	257
PL.32429	PL.32430	ABC	336 MCM AC	7.40Y	123.4	0.02	1.62	43.56	8	928	275	96	0.07	0.0	4.669	0.046	0	0	0	257
PL.31708	PL.32429	ABC	336 MCM AC	7.40Y	123.4	0.01	1.63	43.41	8	924	274	96	0.06	0.0	4.706	0.037	6	2	1	256
PL.31709	PL.31708	ABC	336 MCM AC	7.40Y	123.3	0.04	1.67	43.15	8	919	273	96	0.20	0.0	4.832	0.126	0	0	0	255
PL.32353	PL.31709	ABC	336 MCM AC	7.40Y	123.3	0.02	1.69	43.15	8	918	272	96	0.12	0.0	4.906	0.074	0	0	0	255
PL.32562	PL.32353	ABC	336 MCM AC	7.40Y	123.3	0.00	1.69	41.90	8	892	264	96	0.01	0.0	4.910	0.004	0	0	0	249
PL.32563	PL.32562	ABC	336 MCM AC	7.40Y	123.3	0.05	1.75	41.90	8	892	264	96	0.25	0.0	5.082	0.172	0	0	0	249
PL.32358	PL.32563	ABC	336 MCM AC	7.39Y	123.2	0.04	1.79	41.90	8	891	264	96	0.19	0.0	5.210	0.128	0	0	0	249
PL.32359	PL.32358	ABC	336 MCM AC	7.39Y	123.2	0.04	1.83	41.90	8	891	263	96	0.21	0.0	5.351	0.140	0	0	0	249
PL.31440	PL.32359	ABC	336 MCM AC	7.39Y	123.2	0.00	1.83	41.90	8	891	263	96	0.00	0.0	5.353	0.003	0	0	0	249
PD.4466	PL.31440	ABC	100L	7.39Y	123.2	0.00	1.83	41.90	42	891	263	96	0.00	0.0	5.353	0.003	0	0	0	249
PL.31441	PD.4466	ABC	336 MCM AC	7.39Y	123.1	0.02	1.86	41.90	8	891	263	96	0.10	0.0	5.419	0.066	0	0	0	249
PL.31712	PL.31441	ABC	336 MCM AC	7.39Y	123.1	0.01	1.87	35.87	7	762	225	96	0.05	0.0	5.462	0.042	1	0	1	210
PL.31713	PL.31712	ABC	336 MCM AC	7.39Y	123.1	0.01	1.88	35.82	7	761	225	96	0.05	0.0	5.509	0.048	2	1	1	209
PL.32293	PL.31713	ABC	336 MCM AC	7.39Y	123.1	0.01	1.89	35.15	7	747	221	96	0.05	0.0	5.556	0.047	4	1	1	205
PL.31379	PL.32293	ABC	336 MCM AC	7.39Y	123.1	0.00	1.89	0.65	0	14	4	96	0.00	0.0	5.617	0.061	7	2	1	3
PL.31380	PL.31379	ABC	336 MCM AC	7.39Y	123.1	0.00	1.89	0.33	0	7	2	96	0.00	0.0	5.711	0.094	0	0	0	2
PL.32368	PL.31380	ABC	336 MCM AC	7.39Y	123.1	0.00	1.89	0.33	0	7	2	96	0.00	0.0	5.829	0.118	0	0	0	2
PL.32427	PL.32368	ABC	336 MCM AC	7.39Y	123.1	0.00	1.89	0.33	0	7	2	96	0.00	0.0	5.902	0.073	0	0	0	2
PL.32428	PL.32427	ABC	336 MCM AC	7.39Y	123.1	0.00	1.89	0.33	0	7	2	96	0.00	0.0	5.935	0.033	2	1	1	2
PL.31381	PL.32428	ABC	336 MCM AC	7.39Y	123.1	0.00	1.89	0.23	0	5	1	98	0.00	0.0	5.977	0.042	0	0	0	1
PL.32544	PL.31381	A	#1/0 ACSR	7.39Y	123.1	0.00	1.89	0.68	0	5	1	98	0.00	0.0	6.021	0.044	0	0	0	1
PD.4422	PL.32544	A	40T	7.39Y	123.1	0.00	1.89	0.68	0	5	1	98	0.00	0.0	6.021	0.044	0	0	0	1
PL.32545	PD.4422	A	#1/0 ACSR	7.39Y	123.1	0.00	1.89	0.68	0	5	1	98	0.00	0.0	6.056	0.036	5	1	1	1
PL.32607	PL.31381	ABC	336 MCM AC	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	5.982	0.005	0	0	0	0
PD.4405-B	PL.32607	ABC	Open	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	5.982	0.005	0	0	0	0
PL.32600	PL.32427	A	#4 ACSR	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	5.907	0.005	0	0	0	0
PD.4451	PL.32600	A	40T	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	5.907	0.005	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: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32601	PD.4451	A	#4 ACSR	7.39Y	123.1	0.00	1.89	0.00	0	0	0	100	0.00	0.0	5.965	0.058	0	0	0	0
PL.31442	PL.32293	ABC	#2 ACSR	7.38Y	123.1	0.03	1.92	34.30	20	729	215	96	0.17	0.0	5.591	0.034	0	0	0	201
RG.35	PL.31442	ABC	76.2 KVA	7.48Y	124.6	-1.56	0.36	34.30	34	729	215	96	percent Boost= 1.25			Tap= 2.0				201
PL.31443	RG.35	ABC	#2 ACSR	7.47Y	124.5	0.12	0.48	33.87	19	729	215	96	0.63	0.1	5.725	0.134	0	0	0	201
PL.32602	PL.31443	C	#4 ACSR	7.47Y	124.5	0.00	0.48	1.96	2	14	4	96	0.00	0.0	5.729	0.005	0	0	0	1
PD.4452	PL.32602	C	40T	7.47Y	124.5	0.00	0.48	1.96	0	14	4	96	0.00	0.0	5.729	0.005	0	0	0	1
PL.32603	PD.4452	C	#4 ACSR	7.47Y	124.5	0.00	0.48	1.96	2	14	4	96	0.00	0.0	5.785	0.056	14	4	1	1
PL.32319	PL.31443	ABC	#2 ACSR	7.47Y	124.4	0.09	0.57	33.22	19	714	211	96	0.47	0.1	5.829	0.105	2	1	1	200
PL.31694	PL.32319	ABC	#2 ACSR	7.46Y	124.4	0.05	0.62	33.13	19	712	210	96	0.29	0.0	5.894	0.065	2	1	2	199
PL.31695	PL.31694	ABC	#2 ACSR	7.45Y	124.2	0.13	0.75	33.02	19	709	209	96	0.69	0.1	6.049	0.154	3	1	1	197
PL.31674	PL.31695	ABC	#2 ACSR	7.45Y	124.2	0.10	0.85	32.90	19	706	208	96	0.52	0.1	6.166	0.118	1	0	1	196
PL.31675	PL.31674	ABC	#2 ACSR	7.45Y	124.1	0.07	0.92	32.84	19	704	208	96	0.35	0.1	6.247	0.080	2	1	1	195
PL.32542	PL.31675	A	#4 ACSR	7.45Y	124.1	0.00	0.92	0.54	0	4	1	97	0.00	0.0	6.251	0.005	0	0	0	2
PD.4421	PL.32542	A	40T	7.45Y	124.1	0.00	0.92	0.54	0	4	1	97	0.00	0.0	6.251	0.005	0	0	0	2
PL.32543	PD.4421	A	#4 ACSR	7.44Y	124.1	0.00	0.92	0.54	0	4	1	97	0.00	0.0	6.356	0.105	2	1	1	2
PL.31384	PL.32543	A	#1/0 ACSR	7.44Y	124.1	0.00	0.92	0.28	0	2	1	89	0.00	0.0	6.399	0.042	2	1	1	1
PL.31382	PL.31675	ABC	#2 ACSR	7.44Y	124.0	0.09	1.00	32.55	19	697	206	96	0.46	0.1	6.352	0.105	0	0	0	192
PL.32369	PL.31382	ABC	#2 ACSR	7.43Y	123.9	0.10	1.10	32.55	19	697	205	96	0.53	0.1	6.473	0.121	3	1	2	192
PL.31383	PL.32369	ABC	#2 ACSR	7.43Y	123.8	0.07	1.17	32.43	19	694	204	96	0.36	0.1	6.557	0.083	0	0	0	190
PL.31672	PL.31383	ABC	#2 ACSR	7.43Y	123.8	0.06	1.23	32.00	18	684	202	96	0.31	0.0	6.630	0.074	10	3	1	187
PL.31673	PL.31672	ABC	#2 ACSR	7.42Y	123.7	0.06	1.29	31.56	18	674	199	96	0.31	0.0	6.707	0.077	0	0	0	186
PL.32538	PL.31673	ABC	#2 ACSR	7.42Y	123.6	0.09	1.38	27.68	16	591	175	96	0.41	0.1	6.838	0.131	0	0	0	156
PL.32539	PL.32538	ABC	#2 ACSR	7.42Y	123.6	0.00	1.39	27.68	16	591	174	96	0.01	0.0	6.843	0.004	0	0	0	156
PL.31418	PL.32539	C	#4 ACSR	7.42Y	123.6	0.00	1.39	0.88	1	6	2	95	0.00	0.0	6.847	0.005	0	0	0	1
PD.4454	PL.31418	C	40T	7.42Y	123.6	0.00	1.39	0.88	0	6	2	95	0.00	0.0	6.847	0.005	0	0	0	1
PL.31419	PD.4454	C	#4 ACSR	7.42Y	123.6	0.00	1.39	0.88	1	6	2	95	0.00	0.0	6.893	0.046	6	2	1	1
PL.32501	PL.32539	ABC	#2 ACSR	7.41Y	123.6	0.04	1.43	27.03	15	577	170	96	0.17	0.0	6.900	0.058	6	2	1	154
PL.32502	PL.32501	ABC	#2 ACSR	7.41Y	123.6	0.01	1.44	26.73	15	570	168	96	0.06	0.0	6.921	0.021	3	1	1	153
PL.32503	PL.32502	ABC	#2 ACSR	7.41Y	123.5	0.07	1.51	26.58	15	567	167	96	0.29	0.1	7.021	0.101	0	0	0	152
PL.32470	PL.32503	ABC	#2 ACSR	7.41Y	123.4	0.04	1.55	26.19	15	558	165	96	0.18	0.0	7.085	0.063	0	0	2	150
PL.32471	PL.32470	ABC	#2 ACSR	7.40Y	123.4	0.04	1.59	26.19	15	558	165	96	0.17	0.0	7.145	0.061	0	0	0	148

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31408	PL.32471	ABC	#1/0 ACSR	7.40Y	123.4	0.02	1.61	16.59	7	353	105	96	0.04	0.0	7.200	0.054	5	2	2	88
PL.32472	PL.31408	ABC	#1/0 ACSR	7.40Y	123.4	0.00	1.61	2.53	1	54	16	96	0.00	0.0	7.261	0.062	2	0	2	15
PL.32473	PL.32472	ABC	#1/0 ACSR	7.40Y	123.4	0.00	1.61	2.45	1	52	15	96	0.00	0.0	7.303	0.041	1	0	1	13
PL.32474	PL.32473	C	6 A (CWC)	7.40Y	123.4	0.00	1.62	5.89	4	42	12	96	0.00	0.0	7.315	0.012	1	0	1	11
PL.32532	PL.32474	C	6 A (CWC)	7.40Y	123.4	0.01	1.62	5.75	4	41	12	96	0.00	0.0	7.335	0.020	0	0	0	10
PD.4417	PL.32532	C	40T	7.40Y	123.4	0.00	1.62	5.75	0	41	12	96	0.00	0.0	7.335	0.020	0	0	0	10
PL.32533	PD.4417	C	6 A (CWC)	7.40Y	123.4	0.01	1.63	5.75	4	41	12	96	0.00	0.0	7.367	0.032	9	3	1	10
PL.32475	PL.32533	C	6 A (CWC)	7.40Y	123.3	0.02	1.65	4.42	3	31	9	96	0.01	0.0	7.481	0.114	0	0	0	9
PL.32476	PL.32475	C	6 A (CWC)	7.40Y	123.3	0.03	1.68	4.42	3	31	9	96	0.01	0.0	7.627	0.146	0	0	0	9
PL.32296	PL.32476	C	6 A (CWC)	7.40Y	123.3	0.02	1.70	4.42	3	31	9	96	0.00	0.0	7.723	0.096	0	0	0	9
PL.32478	PL.32296	C	6 A (CWC)	7.40Y	123.3	0.02	1.72	4.42	3	31	9	96	0.00	0.0	7.806	0.083	0	0	0	9
PL.32479	PL.32478	C	6 A (CWC)	7.40Y	123.3	0.01	1.73	4.42	3	31	9	96	0.00	0.0	7.866	0.060	8	2	1	9
PL.32297	PL.32479	C	6 A (CWC)	7.40Y	123.3	0.02	1.75	3.25	2	23	7	96	0.00	0.0	7.983	0.116	0	0	0	8
PL.32396	PL.32297	C	6 A (CWC)	7.39Y	123.2	0.02	1.76	3.25	2	23	7	96	0.00	0.0	8.093	0.110	0	0	0	8
PL.32411	PL.32396	C	6 A (CWC)	7.39Y	123.2	0.02	1.78	3.25	2	23	7	96	0.00	0.0	8.207	0.114	0	0	0	8
PL.31685	PL.32411	C	6 A (CWC)	7.39Y	123.2	0.01	1.78	2.88	2	20	6	96	0.00	0.0	8.277	0.070	16	5	3	6
PL.31686	PL.31685	C	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.59	0	4	1	97	0.00	0.0	8.365	0.088	0	0	0	3
PL.32399	PL.31686	C	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.59	0	4	1	97	0.00	0.0	8.490	0.125	0	0	0	3
PL.32400	PL.32399	C	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.59	0	4	1	97	0.00	0.0	8.556	0.066	4	1	1	3
PL.32299	PL.32400	C	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	8.670	0.114	0	0	0	2
PL.32401	PL.32299	C	6 A (CWC)	7.39Y	123.2	0.00	1.79	0.00	0	0	0	100	0.00	0.0	8.751	0.081	0	0	2	2
PL.32412	PL.32411	C	6 A (CWC)	7.39Y	123.2	0.00	1.78	0.37	0	3	1	95	0.00	0.0	8.338	0.130	0	0	0	2
PL.32397	PL.32412	C	6 A (CWC)	7.39Y	123.2	0.00	1.78	0.37	0	3	1	95	0.00	0.0	8.409	0.071	0	0	0	2
PL.31688	PL.32397	C	6 A (CWC)	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	8.480	0.071	0	0	0	0
PL.31689	PL.31688	C	6 A (CWC)	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	8.572	0.091	0	0	0	0
PL.32398	PL.31689	C	6 A (CWC)	7.39Y	123.2	0.00	1.78	0.00	0	0	0	100	0.00	0.0	8.682	0.110	0	0	0	0
PL.32298	PL.32397	C	#4 ACSR	7.39Y	123.2	0.00	1.78	0.37	0	3	1	95	0.00	0.0	8.497	0.088	3	1	2	2
PL.32295	PL.32296	C	6 A (CWC)	7.40Y	123.3	0.00	1.70	0.00	0	0	0	100	0.00	0.0	7.799	0.075	0	0	0	0
PL.31417	PL.32473	C	#4 ACSR	7.40Y	123.4	0.00	1.61	1.33	1	9	3	95	0.00	0.0	7.326	0.024	0	0	0	1
PL.32534	PL.31417	C	#4 ACSR	7.40Y	123.4	0.00	1.61	1.33	1	9	3	95	0.00	0.0	7.331	0.005	0	0	0	1
PD.4418	PL.32534	C	40T	7.40Y	123.4	0.00	1.61	1.33	0	9	3	95	0.00	0.0	7.331	0.005	0	0	0	1

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32535	PD.4418	C	#4 ACSR	7.40Y	123.4	0.00	1.62	1.33	1	9	3	95	0.00	0.0	7.415	0.084	9	3	1	1
PL.32477	PL.32535	C	#4 ACSR	7.40Y	123.4	0.00	1.62	0.00	0	0	0	100	0.00	0.0	7.520	0.105	0	0	0	0
PL.32403	PL.32477	C	#4 ACSR	7.40Y	123.4	0.00	1.62	0.00	0	0	0	100	0.00	0.0	7.633	0.113	0	0	0	0
PL.32402	PL.32403	C	#4 ACSR	7.40Y	123.4	0.00	1.62	0.00	0	0	0	100	0.00	0.0	7.750	0.117	0	0	0	0
PL.31438	PL.31408	C	#1/0 ACSR	7.40Y	123.3	0.08	1.69	41.42	18	294	88	96	0.15	0.1	7.280	0.081	0	0	0	71
PD.4465	PL.31438	C	70L	7.40Y	123.3	0.00	1.69	41.42	59	293	88	96	0.00	0.0	7.280	0.081	0	0	0	71
PL.31439	PD.4465	C	#1/0 ACSR	7.39Y	123.2	0.10	1.79	41.42	18	293	88	96	0.20	0.1	7.388	0.107	0	0	0	71
PL.32375	PL.31439	C	#1/0 ACSR	7.39Y	123.1	0.11	1.90	41.42	18	293	88	96	0.21	0.1	7.503	0.116	0	0	0	71
PL.32376	PL.32375	C	#1/0 ACSR	7.38Y	123.0	0.09	1.99	41.42	18	293	88	96	0.17	0.1	7.594	0.091	0	0	0	71
PL.32468	PL.32376	C	#1/0 ACSR	7.38Y	122.9	0.07	2.06	41.42	18	293	87	96	0.13	0.0	7.662	0.068	2	1	1	71
PL.32469	PL.32468	C	#1/0 ACSR	7.37Y	122.9	0.09	2.15	41.09	18	290	87	96	0.17	0.1	7.756	0.094	5	1	2	70
PL.32464	PL.32469	C	#1/0 ACSR	7.37Y	122.8	0.06	2.21	40.37	18	285	85	96	0.11	0.0	7.822	0.066	6	2	1	68
PL.32465	PL.32464	C	#1/0 ACSR	7.36Y	122.7	0.11	2.32	39.53	17	279	83	96	0.19	0.1	7.936	0.114	0	0	0	67
PL.32377	PL.32465	C	#1/0 ACSR	7.36Y	122.6	0.10	2.41	39.53	17	279	83	96	0.18	0.1	8.042	0.106	0	0	0	67
PL.32378	PL.32377	C	#1/0 ACSR	7.35Y	122.4	0.14	2.55	39.53	17	279	83	96	0.25	0.1	8.190	0.148	0	0	0	67
PL.32379	PL.32378	C	#1/0 ACSR	7.34Y	122.3	0.14	2.69	39.53	17	278	82	96	0.26	0.1	8.341	0.151	0	0	0	67
PL.32380	PL.32379	C	#1/0 ACSR	7.33Y	122.2	0.09	2.78	39.53	17	278	82	96	0.16	0.1	8.434	0.093	0	0	0	67
PL.31640	PL.32380	C	#1/0 ACSR	7.33Y	122.1	0.14	2.91	39.53	17	278	82	96	0.25	0.1	8.581	0.147	0	0	0	67
PL.32330	PL.31640	C	#1/0 ACSR	7.32Y	122.0	0.10	3.02	37.51	16	264	78	96	0.18	0.1	8.699	0.117	0	0	0	64
PL.32524	PL.32330	C	#1/0 ACSR	7.32Y	122.0	0.00	3.02	1.28	1	9	3	95	0.00	0.0	8.703	0.005	0	0	0	2
PD.4412	PL.32524	C	20T	7.32Y	122.0	0.00	3.02	1.28	0	9	3	95	0.00	0.0	8.703	0.005	0	0	0	2
PL.32525	PD.4412	C	#1/0 ACSR	7.32Y	122.0	0.00	3.02	1.28	1	9	3	95	0.00	0.0	8.736	0.033	0	0	1	2
PL.32458	PL.32525	C	#1/0 ACSR	7.32Y	122.0	0.00	3.02	1.28	1	9	3	95	0.00	0.0	8.768	0.032	9	3	1	1
PL.32454	PL.32330	C	#1/0 ACSR	7.31Y	121.9	0.12	3.13	36.23	16	254	75	96	0.19	0.1	8.836	0.137	0	0	1	62
PL.32455	PL.32454	C	#1/0 ACSR	7.31Y	121.8	0.10	3.24	36.22	16	254	74	96	0.18	0.1	8.959	0.123	0	0	0	61
PL.32522	PL.32455	C	6 A (CWC)	7.31Y	121.8	0.00	3.24	6.94	5	49	14	96	0.00	0.0	8.963	0.005	0	0	0	11
PD.4411	PL.32522	C	20T	7.31Y	121.8	0.00	3.24	6.94	0	49	14	96	0.00	0.0	8.963	0.005	0	0	0	11
PL.32523	PD.4411	C	6 A (CWC)	7.30Y	121.7	0.04	3.28	6.94	5	49	14	96	0.01	0.0	9.077	0.113	0	0	0	11
PL.31642	PL.32523	C	6 A (CWC)	7.30Y	121.7	0.02	3.29	6.94	5	49	14	96	0.01	0.0	9.137	0.060	0	0	0	11
PL.32332	PL.31642	C	6 A (CWC)	7.30Y	121.7	0.00	3.30	3.77	3	26	8	96	0.00	0.0	9.160	0.023	5	1	1	7
PL.31645	PL.32332	C	6 A (CWC)	7.30Y	121.7	0.02	3.31	3.03	2	21	6	96	0.00	0.0	9.268	0.108	0	0	0	6

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

Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31647	PL.31645	C	#1/0 ACSR	7.30Y	121.7	0.00	3.31	1.55	1	11	3	96	0.00	0.0	9.304	0.036	11	3	1	1
PL.32461	PL.31645	C	6 A (CWC)	7.30Y	121.7	0.01	3.32	1.48	1	10	3	96	0.00	0.0	9.368	0.100	1	0	2	5
PL.32462	PL.32461	C	6 A (CWC)	7.30Y	121.7	0.01	3.33	1.35	1	10	3	96	0.00	0.0	9.481	0.113	0	0	1	3
PL.32463	PL.32462	C	6 A (CWC)	7.30Y	121.7	0.00	3.33	1.29	1	9	3	95	0.00	0.0	9.526	0.045	0	0	0	2
PL.31649	PL.32463	C	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.82	1	6	2	95	0.00	0.0	9.574	0.048	6	2	1	1
PL.31648	PL.32463	C	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.47	0	3	1	95	0.00	0.0	9.603	0.078	0	0	0	1
PL.31650	PL.31648	C	#4 ACSR	7.30Y	121.7	0.00	3.33	0.47	0	3	1	95	0.00	0.0	9.672	0.069	3	1	1	1
PL.32333	PL.31648	C	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	9.720	0.117	0	0	0	0
PL.32381	PL.32333	C	6 A (CWC)	7.30Y	121.7	0.00	3.33	0.00	0	0	0	100	0.00	0.0	9.811	0.090	0	0	0	0
PL.31644	PL.31642	C	6 A (CWC)	7.30Y	121.7	0.00	3.29	3.17	2	22	6	96	0.00	0.0	9.141	0.004	0	0	0	4
PD.4414	PL.31644	C	12T	7.30Y	121.7	0.00	3.29	3.17	0	22	6	96	0.00	0.0	9.141	0.004	0	0	0	4
PL.31643	PD.4414	C	#1/0 ACSR	7.30Y	121.7	0.00	3.30	0.80	0	6	2	95	0.00	0.0	9.174	0.033	6	2	1	1
PL.32459	PD.4414	C	6 A (CWC)	7.30Y	121.7	0.00	3.30	2.36	2	17	5	96	0.00	0.0	9.201	0.061	9	3	1	3
PL.32460	PL.32459	C	6 A (CWC)	7.30Y	121.7	0.00	3.30	1.11	1	8	2	97	0.00	0.0	9.294	0.092	0	0	1	2
PL.32453	PL.32460	C	6 A (CWC)	7.30Y	121.7	0.00	3.31	1.07	1	8	2	97	0.00	0.0	9.328	0.034	0	0	0	1
PL.31646	PL.32453	C	#1/0 ACSR	7.30Y	121.7	0.00	3.31	1.07	0	8	2	97	0.00	0.0	9.381	0.052	8	2	1	1
PL.32331	PL.32455	C	#1/0 ACSR	7.30Y	121.7	0.07	3.31	29.29	13	205	60	96	0.10	0.0	9.064	0.105	0	0	0	50
PL.32382	PL.32331	C	#1/0 ACSR	7.30Y	121.6	0.10	3.41	29.29	13	205	60	96	0.14	0.1	9.214	0.151	6	2	1	50
PL.32450	PL.32382	C	#1/0 ACSR	7.29Y	121.6	0.02	3.43	28.38	12	199	58	96	0.02	0.0	9.241	0.026	4	1	1	49
PL.32451	PL.32450	C	#1/0 ACSR	7.29Y	121.5	0.06	3.49	27.74	12	194	57	96	0.08	0.0	9.339	0.098	0	0	0	48
PL.32518	PL.32451	C	#4 ACSR	7.29Y	121.5	0.00	3.49	0.40	0	3	1	95	0.00	0.0	9.344	0.005	0	0	0	1
PD.4409	PL.32518	C	20T	7.29Y	121.5	0.00	3.49	0.40	0	3	1	95	0.00	0.0	9.344	0.005	0	0	0	1
PL.32519	PD.4409	C	#4 ACSR	7.29Y	121.5	0.00	3.49	0.40	0	3	1	95	0.00	0.0	9.445	0.101	0	0	0	1
PL.32383	PL.32519	C	#4 ACSR	7.29Y	121.5	0.00	3.50	0.40	0	3	1	95	0.00	0.0	9.535	0.090	0	0	0	1
PL.33059	PL.32383	C	#1/0 ACSR	7.29Y	121.5	0.00	3.50	0.40	0	3	1	95	0.00	0.0	9.588	0.054	3	1	1	1
PL.32408	PL.32451	C	#1/0 ACSR	7.29Y	121.5	0.05	3.54	27.34	12	191	56	96	0.06	0.0	9.418	0.078	0	0	0	47
PL.32384	PL.32408	C	#1/0 ACSR	7.28Y	121.4	0.05	3.59	27.34	12	191	56	96	0.06	0.0	9.490	0.072	0	0	0	47
PL.32385	PL.32384	C	#1/0 ACSR	7.28Y	121.4	0.05	3.64	27.34	12	191	56	96	0.06	0.0	9.569	0.080	0	0	0	47
PL.32520	PL.32385	C	#1/0 ACSR	7.28Y	121.4	0.00	3.64	0.03	0	0	0	100	0.00	0.0	9.574	0.005	0	0	0	2
PD.4410	PL.32520	C	20T	7.28Y	121.4	0.00	3.64	0.03	0	0	0	100	0.00	0.0	9.574	0.005	0	0	0	2
PL.32521	PD.4410	C	#1/0 ACSR	7.28Y	121.4	0.00	3.64	0.03	0	0	0	100	0.00	0.0	9.641	0.067	0	0	1	2

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32452	PL.32521	C	#1/0 ACSR	7.28Y	121.4	0.00	3.64	0.03	0	0	0	100	0.00	0.0	9.707	0.067	0	0	1	1
PL.31434	PL.32385	C	#1/0 ACSR	7.28Y	121.4	0.00	3.64	27.31	12	191	56	96	0.00	0.0	9.574	0.005	0	0	0	45
PD.4463-A	PL.31434	C	Closed	7.28Y	121.4	0.00	3.64	27.31	0	191	56	96	0.00	0.0	9.574	0.005	0	0	0	45
PD.4463-B	PD.4463-A	C	Closed	7.28Y	121.4	0.00	3.64	27.31	0	191	56	96	0.00	0.0	9.574	0.005	0	0	0	45
PL.31435	PD.4463-B	C	#1/0 ACSR	7.28Y	121.3	0.08	3.72	27.31	12	191	56	96	0.10	0.1	9.693	0.119	0	0	0	45
PL.32386	PL.31435	C	#1/0 ACSR	7.27Y	121.2	0.12	3.84	27.31	12	191	56	96	0.15	0.1	9.871	0.178	0	0	0	45
PL.32334	PL.32386	C	#1/0 ACSR	7.26Y	121.0	0.12	3.97	27.25	12	190	55	96	0.16	0.1	10.060	0.188	0	0	0	43
PL.31652	PL.32334	C	#1/0 ACSR	7.26Y	121.0	0.05	4.02	27.15	12	189	55	96	0.06	0.0	10.136	0.077	0	0	0	42
PL.32528	PL.31652	C	#1/0 ACSR	7.26Y	121.0	0.00	4.02	27.15	12	189	55	96	0.00	0.0	10.141	0.004	0	0	0	42
PD.4415	PL.32528	C	20T	7.26Y	121.0	0.00	4.02	27.15	0	189	55	96	0.00	0.0	10.141	0.004	0	0	0	42
PL.32529	PD.4415	C	#1/0 ACSR	7.25Y	120.9	0.07	4.09	27.15	12	189	55	96	0.09	0.0	10.251	0.111	2	1	1	42
PL.32438	PL.32529	C	#1/0 ACSR	7.25Y	120.9	0.05	4.14	26.85	12	187	54	96	0.06	0.0	10.322	0.071	0	0	0	41
PL.32336	PL.32438	C	#1/0 ACSR	7.25Y	120.8	0.04	4.18	26.41	11	184	53	96	0.05	0.0	10.389	0.067	0	0	0	40
PL.31654	PL.32336	C	#1/0 ACSR	7.24Y	120.7	0.08	4.26	26.41	11	184	53	96	0.10	0.1	10.520	0.131	1	0	1	40
PL.32546	PL.31654	C	#4 ACSR	7.24Y	120.7	0.00	4.26	0.21	0	1	0	100	0.00	0.0	10.525	0.005	0	0	0	1
PD.4423	PL.32546	C	20T	7.24Y	120.7	0.00	4.26	0.21	0	1	0	100	0.00	0.0	10.525	0.005	0	0	0	1
PL.32547	PD.4423	C	#4 ACSR	7.24Y	120.7	0.00	4.26	0.21	0	1	0	100	0.00	0.0	10.599	0.074	1	0	1	1
PL.31655	PL.31654	C	#1/0 ACSR	7.24Y	120.6	0.09	4.36	26.05	11	181	52	96	0.11	0.1	10.667	0.146	6	2	2	38
PL.31656	PL.31655	C	6 A (CWC)	7.24Y	120.6	0.05	4.41	14.04	10	98	28	96	0.04	0.0	10.749	0.082	3	1	1	20
PL.31413	PL.31656	C	6 A (CWC)	7.23Y	120.5	0.06	4.47	13.67	10	95	27	96	0.04	0.0	10.841	0.093	0	0	0	19
PL.31414	PL.31413	C	6 A (CWC)	7.23Y	120.5	0.02	4.49	13.67	10	95	27	96	0.02	0.0	10.877	0.036	1	0	1	19
PL.31428	PL.31414	C	6 A (CWC)	7.23Y	120.5	0.00	4.49	3.44	2	24	7	96	0.00	0.0	10.881	0.004	0	0	0	6
PD.4459	PL.31428	C	20T	7.23Y	120.5	0.00	4.49	3.44	0	24	7	96	0.00	0.0	10.881	0.004	0	0	0	6
PL.31429	PD.4459	C	6 A (CWC)	7.23Y	120.5	0.01	4.50	3.44	2	24	7	96	0.00	0.0	10.953	0.071	6	2	2	6
PL.31678	PL.31429	C	6 A (CWC)	7.23Y	120.5	0.01	4.51	2.59	2	18	5	96	0.00	0.0	11.041	0.088	7	2	1	4
PL.32305	PL.31678	C	6 A (CWC)	7.23Y	120.5	0.00	4.51	1.52	1	11	3	96	0.00	0.0	11.104	0.063	0	0	0	3
PL.32436	PL.32305	C	6 A (CWC)	7.23Y	120.5	0.01	4.52	1.52	1	11	3	96	0.00	0.0	11.291	0.188	1	0	1	3
PL.32437	PL.32436	C	6 A (CWC)	7.23Y	120.5	0.00	4.53	1.31	1	9	3	95	0.00	0.0	11.364	0.073	6	2	1	2
PL.32435	PL.32437	C	6 A (CWC)	7.23Y	120.5	0.00	4.53	0.40	0	3	1	95	0.00	0.0	11.543	0.178	0	0	0	1
PL.32434	PL.32435	C	6 A (CWC)	7.23Y	120.5	0.00	4.53	0.40	0	3	1	95	0.00	0.0	11.586	0.044	3	1	1	1
PL.31426	PL.31414	C	#4 ACSR	7.23Y	120.5	0.00	4.49	10.03	8	70	20	96	0.00	0.0	10.881	0.004	0	0	0	12

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PD.4458	PL.31426	C	20T	7.23Y	120.5	0.00	4.49	10.03	0	70	20	96	0.00	0.0	10.881	0.004	0	0	0	12
PL.31427	PD.4458	C	#4 ACSR	7.23Y	120.5	0.05	4.54	10.03	8	70	20	96	0.03	0.0	10.992	0.111	0	0	0	12
PL.32387	PL.31427	C	#4 ACSR	7.23Y	120.4	0.04	4.58	10.03	8	70	20	96	0.02	0.0	11.076	0.083	0	0	1	12
PL.31679	PL.32387	C	#4 ACSR	7.22Y	120.4	0.02	4.59	10.02	8	70	20	96	0.01	0.0	11.117	0.041	12	4	1	11
PL.31680	PL.31679	C	#4 ACSR	7.22Y	120.4	0.04	4.63	8.26	6	57	16	96	0.02	0.0	11.224	0.107	0	0	0	10
PL.32388	PL.31680	C	#4 ACSR	7.22Y	120.3	0.04	4.68	8.26	6	57	16	96	0.02	0.0	11.338	0.114	0	0	0	10
PL.31415	PL.32388	C	#4 ACSR	7.22Y	120.3	0.04	4.72	8.26	6	57	16	96	0.02	0.0	11.456	0.118	0	0	0	10
PL.32550	PL.31415	C	#4 ACSR	7.22Y	120.3	0.00	4.72	0.41	0	3	1	95	0.00	0.0	11.461	0.005	0	0	0	1
PD.4425	PL.32550	C	12T	7.22Y	120.3	0.00	4.72	0.41	0	3	1	95	0.00	0.0	11.461	0.005	0	0	0	1
PL.32551	PD.4425	C	#4 ACSR	7.22Y	120.3	0.00	4.72	0.41	0	3	1	95	0.00	0.0	11.645	0.184	3	1	1	1
PL.31416	PL.31415	C	#4 ACSR	7.21Y	120.2	0.05	4.77	7.86	6	54	16	96	0.02	0.0	11.589	0.133	0	0	0	9
PL.32389	PL.31416	C	#4 ACSR	7.21Y	120.2	0.05	4.81	7.86	6	54	16	96	0.02	0.0	11.733	0.144	7	2	1	9
PL.32406	PL.32389	C	#4 ACSR	7.21Y	120.2	0.01	4.82	6.82	5	47	14	96	0.00	0.0	11.764	0.031	8	2	1	8
PL.32300	PL.32406	C	#1/0 ACSR	7.21Y	120.2	0.01	4.83	4.89	2	34	10	96	0.00	0.0	11.874	0.110	0	0	0	6
PL.31681	PL.32300	C	#1/0 ACSR	7.21Y	120.2	0.01	4.84	4.89	2	34	10	96	0.00	0.0	11.965	0.091	0	0	1	6
PL.31682	PL.31681	C	#1/0 ACSR	7.21Y	120.2	0.00	4.85	4.89	2	34	10	96	0.00	0.0	12.002	0.037	0	0	0	5
PL.32301	PL.31682	C	#1/0 ACSR	7.21Y	120.1	0.02	4.86	4.89	2	34	10	96	0.00	0.0	12.140	0.139	0	0	0	5
PL.32390	PL.32301	C	#1/0 ACSR	7.21Y	120.1	0.01	4.88	4.89	2	34	10	96	0.00	0.0	12.236	0.095	0	0	0	5
PL.32302	PL.32390	C	#1/0 ACSR	7.21Y	120.1	0.01	4.88	4.89	2	34	10	96	0.00	0.0	12.300	0.064	0	0	0	5
PL.31430	PL.32302	C	#4 ACSR	7.21Y	120.1	0.00	4.88	0.64	0	4	1	97	0.00	0.0	12.304	0.005	0	0	0	1
PD.4460	PL.31430	C	12T	7.21Y	120.1	0.00	4.88	0.64	0	4	1	97	0.00	0.0	12.304	0.005	0	0	0	1
PL.31431	PD.4460	C	#4 ACSR	7.21Y	120.1	0.00	4.89	0.64	0	4	1	97	0.00	0.0	12.423	0.119	0	0	0	1
PL.32303	PL.31431	C	#4 ACSR	7.21Y	120.1	0.00	4.89	0.64	0	4	1	97	0.00	0.0	12.513	0.090	0	0	0	1
PL.32391	PL.32303	C	#4 ACSR	7.21Y	120.1	0.00	4.89	0.64	0	4	1	97	0.00	0.0	12.630	0.117	4	1	1	1
PL.32552	PL.32302	C	#4 ACSR	7.21Y	120.1	0.00	4.88	4.25	3	29	8	96	0.00	0.0	12.304	0.005	0	0	0	4
PD.4426	PL.32552	C	12T	7.21Y	120.1	0.00	4.88	4.25	0	29	8	96	0.00	0.0	12.304	0.005	0	0	0	4
PL.32553	PD.4426	C	#4 ACSR	7.21Y	120.1	0.03	4.92	4.25	3	29	8	96	0.01	0.0	12.476	0.172	0	0	0	4
PL.32392	PL.32553	C	#4 ACSR	7.20Y	120.1	0.02	4.93	4.25	3	29	8	96	0.00	0.0	12.570	0.094	0	0	0	4
PL.32393	PL.32392	C	#4 ACSR	7.20Y	120.1	0.01	4.95	4.25	3	29	8	96	0.00	0.0	12.653	0.082	12	3	1	4
PL.32304	PL.32393	C	#4 ACSR	7.20Y	120.0	0.01	4.96	2.50	2	17	5	96	0.00	0.0	12.768	0.115	0	0	0	3
PL.31676	PL.32304	C	#4 ACSR	7.20Y	120.0	0.01	4.97	2.50	2	17	5	96	0.00	0.0	12.860	0.093	10	3	1	3

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31677	PL.31676	C	#4 ACSR	7.20Y	120.0	0.01	4.97	1.10	1	8	2	97	0.00	0.0	12.975	0.115	0	0	0	2
PL.32394	PL.31677	C	#4 ACSR	7.20Y	120.0	0.00	4.98	1.10	1	8	2	97	0.00	0.0	13.063	0.088	0	0	0	2
PL.32395	PL.32394	C	#4 ACSR	7.20Y	120.0	0.00	4.98	1.10	1	8	2	97	0.00	0.0	13.165	0.102	8	2	2	2
PL.32407	PL.32406	C	#4 ACSR	7.21Y	120.2	0.00	4.82	0.82	1	6	2	95	0.00	0.0	11.782	0.018	6	2	1	1
PL.32337	PL.31655	C	#1/0 ACSR	7.24Y	120.6	0.01	4.36	11.12	5	77	22	96	0.00	0.0	10.697	0.031	0	0	0	16
PL.31432	PL.32337	C	#1/0 ACSR	7.24Y	120.6	0.00	4.37	11.12	5	77	22	96	0.00	0.0	10.702	0.005	0	0	0	16
PD.4462-A	PL.31432	C	Closed	7.24Y	120.6	0.00	4.37	11.12	0	77	22	96	0.00	0.0	10.702	0.005	0	0	0	16
PD.4462-B	PD.4462-A	C	Closed	7.24Y	120.6	0.00	4.37	11.12	0	77	22	96	0.00	0.0	10.702	0.005	0	0	0	16
PL.31433	PD.4462-B	C	#1/0 ACSR	7.24Y	120.6	0.01	4.38	11.12	5	77	22	96	0.01	0.0	10.744	0.041	7	2	1	16
PL.31657	PL.31433	C	6 A (CWC)	7.24Y	120.6	0.01	4.38	3.80	3	26	8	96	0.00	0.0	10.828	0.084	21	6	4	5
PL.31659	PL.31657	C	#4 ACSR	7.24Y	120.6	0.00	4.39	0.75	1	5	2	93	0.00	0.0	10.937	0.109	5	2	1	1
PL.31658	PL.31433	C	#1/0 ACSR	7.24Y	120.6	0.01	4.39	6.37	3	44	13	96	0.00	0.0	10.820	0.077	3	1	1	10
PL.32338	PL.31658	C	#1/0 ACSR	7.24Y	120.6	0.00	4.39	0.00	0	0	0	100	0.00	0.0	10.866	0.046	0	0	0	0
PD.4461-A	PL.32338	C	Open	7.24Y	120.6	0.00	4.39	0.00	0	0	0	100	0.00	0.0	10.866	0.046	0	0	0	0
PL.32548	PL.31658	C	6 A (CWC)	7.24Y	120.6	0.00	4.39	6.00	4	42	12	96	0.00	0.0	10.824	0.004	0	0	0	9
PD.4424	PL.32548	C	20T	7.24Y	120.6	0.00	4.39	6.00	0	42	12	96	0.00	0.0	10.824	0.004	0	0	0	9
PL.32549	PD.4424	C	6 A (CWC)	7.24Y	120.6	0.02	4.41	6.00	4	42	12	96	0.01	0.0	10.889	0.064	0	0	0	9
PL.32339	PL.32549	C	6 A (CWC)	7.23Y	120.6	0.01	4.42	4.60	3	32	9	96	0.00	0.0	10.954	0.065	0	0	0	8
PL.31683	PL.32339	C	#4 ACSR	7.23Y	120.6	0.01	4.43	4.60	4	32	9	96	0.00	0.0	11.010	0.056	7	2	1	8
PL.31684	PL.31683	C	#4 ACSR	7.23Y	120.5	0.02	4.45	3.62	3	25	7	96	0.00	0.0	11.134	0.124	0	0	0	7
PL.32340	PL.31684	C	#4 ACSR	7.23Y	120.5	0.01	4.46	3.57	3	25	7	96	0.00	0.0	11.213	0.079	0	0	0	6
PL.31662	PL.32340	C	#4 ACSR	7.23Y	120.5	0.01	4.47	3.57	3	25	7	96	0.00	0.0	11.293	0.079	4	1	1	6
PL.31663	PL.31662	C	#4 ACSR	7.23Y	120.5	0.00	4.48	0.49	0	3	1	95	0.00	0.0	11.354	0.061	3	1	1	1
PL.31664	PL.31662	C	#4 ACSR	7.23Y	120.5	0.02	4.50	2.48	2	17	5	96	0.00	0.0	11.479	0.186	0	0	0	4
PL.31665	PL.31664	C	#4 ACSR	7.23Y	120.5	0.01	4.51	2.48	2	17	5	96	0.00	0.0	11.613	0.134	0	0	0	4
PL.31666	PL.31665	C	#4 ACSR	7.23Y	120.5	0.00	4.51	0.00	0	0	0	100	0.00	0.0	11.660	0.047	0	0	0	0
PL.31422	PL.31665	C	#4 ACSR	7.23Y	120.5	0.00	4.51	2.13	2	15	4	97	0.00	0.0	11.618	0.005	0	0	0	3
PD.4456	PL.31422	C	12T	7.23Y	120.5	0.00	4.51	2.13	0	15	4	97	0.00	0.0	11.618	0.005	0	0	0	3
PL.31423	PD.4456	C	#4 ACSR	7.23Y	120.5	0.02	4.53	2.13	2	15	4	97	0.00	0.0	11.801	0.184	3	1	1	3
PL.31667	PL.31423	C	#4 ACSR	7.23Y	120.5	0.01	4.53	1.69	1	12	3	97	0.00	0.0	11.944	0.143	6	2	1	2
PL.31668	PL.31667	C	#2 ACSR	7.23Y	120.5	0.00	4.54	0.79	0	5	2	93	0.00	0.0	12.040	0.096	5	2	1	1

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

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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	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31424	PL.31665	C	#4 ACSR	7.23Y	120.5	0.00	4.51	0.36	0	2	1	89	0.00	0.0	11.617	0.005	0	0	0	1
PD.4457	PL.31424	C	12T	7.23Y	120.5	0.00	4.51	0.36	0	2	1	89	0.00	0.0	11.617	0.005	0	0	0	1
PL.31425	PD.4457	C	#4 ACSR	7.23Y	120.5	0.00	4.51	0.36	0	2	1	89	0.00	0.0	11.791	0.173	2	1	1	1
PL.31661	PL.31684	C	#1/0 ACSR	7.23Y	120.5	0.00	4.45	0.04	0	0	0	100	0.00	0.0	11.205	0.071	0	0	1	1
PL.31660	PL.32549	C	#1/0 ACSR	7.24Y	120.6	0.00	4.41	1.41	1	10	3	96	0.00	0.0	11.062	0.173	10	3	1	1
PL.32514	PL.32438	C	#4 ACSR	7.25Y	120.9	0.00	4.14	0.44	0	3	1	95	0.00	0.0	10.327	0.005	0	0	0	1
PD.4407	PL.32514	C	20T	7.25Y	120.9	0.00	4.14	0.44	0	3	1	95	0.00	0.0	10.327	0.005	0	0	0	1
PL.32515	PD.4407	C	#4 ACSR	7.25Y	120.9	0.00	4.14	0.44	0	3	1	95	0.00	0.0	10.416	0.089	3	1	1	1
PL.32335	PL.32334	C	6 A (CWC)	7.26Y	121.0	0.00	3.97	0.10	0	1	0	100	0.00	0.0	10.157	0.097	0	0	0	1
PL.31653	PL.32335	C	#1/0 ACSR	7.26Y	121.0	0.00	3.97	0.10	0	1	0	100	0.00	0.0	10.209	0.052	1	0	1	1
PL.31651	PL.32386	C	6 A (CWC)	7.27Y	121.2	0.00	3.84	0.06	0	0	0	100	0.00	0.0	9.944	0.072	0	0	2	2
PL.32526	PL.31640	C	#1/0 ACSR	7.33Y	122.1	0.00	2.91	2.02	1	14	4	96	0.00	0.0	8.586	0.005	0	0	0	3
PD.4413	PL.32526	C	20T	7.33Y	122.1	0.00	2.91	2.02	0	14	4	96	0.00	0.0	8.586	0.005	0	0	0	3
PL.32527	PD.4413	C	#1/0 ACSR	7.33Y	122.1	0.00	2.92	2.02	1	14	4	96	0.00	0.0	8.616	0.030	3	1	1	3
PL.32456	PL.32527	C	#2 ACSR	7.32Y	122.1	0.00	2.92	1.58	1	11	3	96	0.00	0.0	8.665	0.049	6	2	1	2
PL.32457	PL.32456	C	#2 ACSR	7.32Y	122.1	0.00	2.92	0.79	0	6	2	95	0.00	0.0	8.724	0.060	6	2	1	1
PL.32530	PL.32471	A	6 A (CWC)	7.40Y	123.4	0.00	1.59	0.45	0	3	1	95	0.00	0.0	7.150	0.005	0	0	0	1
PD.4416	PL.32530	A	40T	7.40Y	123.4	0.00	1.59	0.45	0	3	1	95	0.00	0.0	7.150	0.005	0	0	0	1
PL.32531	PD.4416	A	6 A (CWC)	7.40Y	123.4	0.00	1.59	0.45	0	3	1	95	0.00	0.0	7.211	0.061	3	1	1	1
PL.31407	PL.32471	A	#1/0 ACSR	7.40Y	123.3	0.12	1.71	28.35	12	202	58	96	0.16	0.1	7.320	0.175	2	1	2	59
PL.31410	PL.31407	A	#1/0 ACSR	7.39Y	123.2	0.05	1.76	26.51	12	188	54	96	0.06	0.0	7.399	0.078	0	0	0	55
PL.31436	PL.31410	A	#1/0 ACSR	7.39Y	123.2	0.00	1.76	26.51	12	188	54	96	0.00	0.0	7.401	0.003	0	0	0	55
PD.4464	PL.31436	A	50L	7.39Y	123.2	0.00	1.76	26.51	53	188	54	96	0.00	0.0	7.401	0.003	0	0	0	55
PL.31437	PD.4464	A	#1/0 ACSR	7.39Y	123.2	0.06	1.82	26.51	12	188	54	96	0.07	0.0	7.491	0.090	8	2	1	55
PL.32448	PL.31437	A	#1/0 ACSR	7.39Y	123.2	0.02	1.84	23.83	10	169	49	96	0.02	0.0	7.531	0.040	7	2	1	48
PL.32449	PL.32448	A	#1/0 ACSR	7.39Y	123.1	0.02	1.86	22.85	10	162	47	96	0.02	0.0	7.566	0.035	7	2	2	47
PL.31624	PL.32449	A	6 A (CWC)	7.39Y	123.1	0.00	1.87	1.57	1	11	3	96	0.00	0.0	7.623	0.056	1	0	1	2
PL.31625	PL.31624	A	#4 ACSR	7.39Y	123.1	0.00	1.87	1.44	1	10	3	96	0.00	0.0	7.664	0.041	10	3	1	1
PL.31626	PL.32449	A	#1/0 ACSR	7.39Y	123.1	0.05	1.91	20.33	9	144	42	96	0.05	0.0	7.672	0.106	8	2	2	43
PL.32325	PL.31626	A	#1/0 ACSR	7.38Y	123.1	0.03	1.94	18.56	8	132	38	96	0.03	0.0	7.746	0.074	6	2	1	38
PL.31627	PL.32325	A	#1/0 ACSR	7.38Y	123.0	0.04	1.99	17.72	8	126	36	96	0.04	0.0	7.849	0.103	3	1	2	37

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Case: 2013 Projected load with Phase 2 Improvements

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32326	PL.31627	A	#1/0 ACSR	7.38Y	123.0	0.04	2.03	16.72	7	119	34	96	0.03	0.0	7.952	0.103	0	0	0	32
PL.32499	PL.32326	A	#1/0 ACSR	7.37Y	122.9	0.05	2.08	16.72	7	119	34	96	0.04	0.0	8.089	0.137	10	3	1	32
PL.32500	PL.32499	A	#1/0 ACSR	7.37Y	122.9	0.02	2.10	15.36	7	109	31	96	0.01	0.0	8.140	0.050	3	1	1	31
PL.32498	PL.32500	A	#1/0 ACSR	7.37Y	122.9	0.02	2.12	14.89	6	105	30	96	0.02	0.0	8.204	0.064	8	2	1	30
PL.32327	PL.32498	A	#1/0 ACSR	7.37Y	122.8	0.03	2.16	13.71	6	97	28	96	0.02	0.0	8.297	0.094	0	0	0	28
PL.32328	PL.32327	A	#1/0 ACSR	7.37Y	122.8	0.03	2.18	12.49	5	88	25	96	0.01	0.0	8.383	0.085	0	0	0	23
PL.31632	PL.32328	A	#1/0 ACSR	7.37Y	122.8	0.02	2.20	11.52	5	82	23	96	0.01	0.0	8.450	0.067	0	0	0	22
PL.32414	PL.31632	A	6 A (CWC)	7.37Y	122.8	0.00	2.20	1.67	1	12	3	97	0.00	0.0	8.466	0.016	0	0	0	6
PL.31633	PL.32414	A	6 A (CWC)	7.37Y	122.8	0.00	2.20	0.22	0	2	0	100	0.00	0.0	8.502	0.036	2	0	1	1
PL.32415	PL.32414	A	6 A (CWC)	7.37Y	122.8	0.01	2.21	1.45	1	10	3	96	0.00	0.0	8.607	0.142	1	0	2	5
PL.32440	PL.32415	A	6 A (CWC)	7.37Y	122.8	0.00	2.22	1.33	1	9	3	95	0.00	0.0	8.717	0.110	5	1	1	3
PL.32441	PL.32440	A	6 A (CWC)	7.37Y	122.8	0.00	2.22	0.62	0	4	1	97	0.00	0.0	8.829	0.112	0	0	0	2
PL.32439	PL.32441	A	6 A (CWC)	7.37Y	122.8	0.00	2.22	0.62	0	4	1	97	0.00	0.0	8.909	0.079	4	1	2	2
PL.32490	PL.31632	A	#1/0 ACSR	7.37Y	122.8	0.02	2.22	9.85	4	70	20	96	0.01	0.0	8.553	0.103	7	2	2	16
PL.32491	PL.32490	A	#1/0 ACSR	7.37Y	122.8	0.03	2.25	8.83	4	62	18	96	0.01	0.0	8.670	0.117	0	0	0	14
PL.32329	PL.32491	A	#1/0 ACSR	7.36Y	122.7	0.02	2.26	7.53	3	53	15	96	0.01	0.0	8.756	0.086	0	0	0	12
PL.31635	PL.32329	A	#2 ACSR	7.36Y	122.7	0.00	2.27	1.72	1	12	3	97	0.00	0.0	8.785	0.029	12	3	1	1
PL.32480	PL.32329	A	#1/0 ACSR	7.36Y	122.7	0.01	2.27	5.81	3	41	12	96	0.00	0.0	8.823	0.068	5	1	1	11
PL.32481	PL.32480	A	#1/0 ACSR	7.36Y	122.7	0.01	2.28	5.11	2	36	10	96	0.00	0.0	8.889	0.066	0	0	0	10
PL.31636	PL.32481	A	#1/0 ACSR	7.36Y	122.7	0.01	2.29	5.11	2	36	10	96	0.00	0.0	8.964	0.075	0	0	0	10
PL.31638	PL.31636	A	#1/0 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	9.052	0.088	0	0	0	0
PL.32416	PL.31636	A	6 A (CWC)	7.36Y	122.7	0.02	2.31	5.11	4	36	10	96	0.00	0.0	9.043	0.079	7	2	2	10
PL.31637	PL.32416	A	#4 ACSR	7.36Y	122.7	0.00	2.31	0.40	0	3	1	95	0.00	0.0	9.058	0.016	3	1	1	1
PL.32417	PL.32416	A	6 A (CWC)	7.36Y	122.7	0.02	2.32	3.73	3	26	8	96	0.00	0.0	9.132	0.090	0	0	0	7
PL.32482	PL.32417	A	6 A (CWC)	7.36Y	122.7	0.02	2.34	3.73	3	26	8	96	0.00	0.0	9.242	0.110	1	0	2	7
PL.32483	PL.32482	A	6 A (CWC)	7.36Y	122.6	0.01	2.35	3.64	3	26	7	97	0.00	0.0	9.318	0.076	0	0	0	5
PL.32485	PL.32483	A	6 A (CWC)	7.36Y	122.6	0.00	2.36	3.64	3	26	7	97	0.00	0.0	9.342	0.024	2	0	1	5
PL.32484	PL.32485	A	6 A (CWC)	7.36Y	122.6	0.02	2.38	3.43	2	24	7	96	0.00	0.0	9.453	0.111	0	0	0	4
PL.32487	PL.32484	A	#2 ACSR	7.36Y	122.6	0.00	2.38	2.08	1	15	4	97	0.00	0.0	9.517	0.064	8	2	1	3
PL.32486	PL.32487	A	#2 ACSR	7.36Y	122.6	0.00	2.38	0.94	1	7	2	96	0.00	0.0	9.549	0.032	7	2	2	2
PL.32488	PL.32484	A	#4 ACSR	7.36Y	122.6	0.00	2.38	1.34	1	10	3	96	0.00	0.0	9.485	0.032	10	3	1	1

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-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32489	PL.32488	A	#4 ACSR	7.36Y	122.6	0.00	2.38	0.00	0	0	0	100	0.00	0.0	9.551	0.066	0	0	0	0
PL.31634	PL.32491	A	#1/0 ACSR	7.37Y	122.8	0.00	2.25	1.30	1	9	3	95	0.00	0.0	8.714	0.045	9	3	2	2
PL.31631	PL.32328	A	#4 ACSR	7.37Y	122.8	0.00	2.18	0.97	1	7	2	96	0.00	0.0	8.436	0.053	7	2	1	1
PL.31630	PL.32327	A	6 A (CWC)	7.37Y	122.8	0.00	2.16	1.23	1	9	2	98	0.00	0.0	8.390	0.092	9	2	5	5
PL.31629	PL.32498	A	#4 ACSR	7.37Y	122.9	0.00	2.12	0.10	0	1	0	100	0.00	0.0	8.257	0.054	1	0	1	1
PL.32516	PL.31627	A	#4 ACSR	7.38Y	123.0	0.00	1.99	0.55	0	4	1	97	0.00	0.0	7.854	0.005	0	0	0	3
PD.4408	PL.32516	A	20T	7.38Y	123.0	0.00	1.99	0.55	0	4	1	97	0.00	0.0	7.854	0.005	0	0	0	3
PL.32517	PD.4408	A	#4 ACSR	7.38Y	123.0	0.00	1.99	0.55	0	4	1	97	0.00	0.0	7.911	0.057	4	1	1	3
PL.32443	PL.32517	A	#4 ACSR	7.38Y	123.0	0.00	1.99	0.03	0	0	0	100	0.00	0.0	7.981	0.070	0	0	1	2
PL.31628	PL.32443	A	#1/0 ACSR	7.38Y	123.0	0.00	1.99	0.01	0	0	0	100	0.00	0.0	8.039	0.058	0	0	1	1
PL.32446	PL.31626	A	6 A (CWC)	7.39Y	123.1	0.00	1.91	0.62	0	4	1	97	0.00	0.0	7.719	0.047	1	0	1	3
PL.32447	PL.32446	A	6 A (CWC)	7.39Y	123.1	0.00	1.91	0.54	0	4	1	97	0.00	0.0	7.741	0.022	4	1	2	2
PL.32466	PL.31437	A	6 A (CWC)	7.39Y	123.2	0.00	1.82	1.62	1	11	3	96	0.00	0.0	7.544	0.053	2	1	2	6
PL.32467	PL.32466	A	6 A (CWC)	7.39Y	123.2	0.01	1.83	1.28	1	9	3	95	0.00	0.0	7.715	0.171	0	0	0	4
PL.31411	PL.32467	A	6 A (CWC)	7.39Y	123.2	0.01	1.84	1.28	1	9	3	95	0.00	0.0	7.846	0.131	6	2	1	4
PL.32444	PL.31411	A	#4 ACSR	7.39Y	123.2	0.00	1.84	0.41	0	3	1	95	0.00	0.0	7.969	0.123	0	0	1	3
PL.32445	PL.32444	A	#4 ACSR	7.39Y	123.2	0.00	1.84	0.40	0	3	1	95	0.00	0.0	8.054	0.085	3	1	1	2
PL.32442	PL.32445	A	#4 ACSR	7.39Y	123.2	0.00	1.84	0.00	0	0	0	100	0.00	0.0	8.156	0.102	0	0	1	1
PL.31409	PL.31407	A	6 A (CWC)	7.40Y	123.3	0.00	1.71	1.51	1	11	3	96	0.00	0.0	7.364	0.044	11	3	2	2
PL.31420	PL.32503	A	#4 ACSR	7.41Y	123.5	0.00	1.51	1.18	1	8	2	97	0.00	0.0	7.026	0.005	0	0	0	2
PD.4455	PL.31420	A	40T	7.41Y	123.5	0.00	1.51	1.18	0	8	2	97	0.00	0.0	7.026	0.005	0	0	0	2
PL.31421	PD.4455	A	#4 ACSR	7.41Y	123.5	0.01	1.52	1.18	1	8	2	97	0.00	0.0	7.141	0.115	0	0	0	2
PL.31388	PL.31421	A	#4 ACSR	7.41Y	123.5	0.00	1.52	1.18	1	8	2	97	0.00	0.0	7.180	0.039	8	2	2	2
PL.32536	PL.32539	A	#4 ACSR	7.42Y	123.6	0.00	1.39	1.06	1	8	2	97	0.00	0.0	6.847	0.005	0	0	0	1
PD.4419	PL.32536	A	40T	7.42Y	123.6	0.00	1.39	1.06	0	8	2	97	0.00	0.0	6.847	0.005	0	0	0	1
PL.32537	PD.4419	A	#4 ACSR	7.42Y	123.6	0.00	1.39	1.06	1	8	2	97	0.00	0.0	6.905	0.058	8	2	1	1
PL.32540	PL.31673	A	6 A (CWC)	7.42Y	123.7	0.00	1.30	11.64	8	83	24	96	0.00	0.0	6.712	0.005	0	0	0	30
PD.4420	PL.32540	A	40T	7.42Y	123.7	0.00	1.30	11.64	0	83	24	96	0.00	0.0	6.712	0.005	0	0	0	30
PL.32541	PD.4420	A	6 A (CWC)	7.42Y	123.7	0.04	1.34	11.64	8	83	24	96	0.03	0.0	6.796	0.084	1	0	1	30
PL.31671	PL.32541	A	6 A (CWC)	7.42Y	123.6	0.06	1.40	11.44	8	82	23	96	0.04	0.0	6.917	0.121	0	0	0	29
PL.32504	PL.31671	A	#4 ACSR	7.42Y	123.6	0.00	1.40	1.27	1	9	3	95	0.00	0.0	6.949	0.032	0	0	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: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32505	PL.32504	A	#4 ACSR	7.42Y	123.6	0.00	1.41	1.23	1	9	3	95	0.00	0.0	7.021	0.073	9	3	2	2
PL.31386	PL.31671	A	6 A (CWC)	7.41Y	123.6	0.04	1.45	10.17	7	73	21	96	0.02	0.0	7.012	0.095	3	1	1	26
PL.31387	PL.31386	A	6 A (CWC)	7.41Y	123.5	0.04	1.48	9.74	7	69	20	96	0.02	0.0	7.098	0.086	4	1	1	25
PL.32418	PL.31387	A	6 A (CWC)	7.41Y	123.5	0.04	1.52	9.18	7	65	19	96	0.02	0.0	7.182	0.084	0	0	0	24
PL.32419	PL.32418	A	6 A (CWC)	7.41Y	123.4	0.04	1.55	8.60	6	61	18	96	0.02	0.0	7.272	0.091	3	1	1	22
PL.31390	PL.32419	A	6 A (CWC)	7.40Y	123.4	0.04	1.59	8.22	6	59	17	96	0.02	0.0	7.372	0.099	0	0	0	21
PL.32370	PL.31390	A	6 A (CWC)	7.40Y	123.4	0.04	1.64	8.22	6	59	17	96	0.02	0.0	7.488	0.117	0	0	0	21
PL.31669	PL.32370	A	6 A (CWC)	7.40Y	123.3	0.02	1.66	7.72	6	55	16	96	0.01	0.0	7.547	0.058	2	1	1	19
PL.31670	PL.31669	A	6 A (CWC)	7.40Y	123.3	0.02	1.68	7.37	5	52	15	96	0.01	0.0	7.605	0.058	0	0	0	18
PL.31392	PL.31670	A	6 A (CWC)	7.40Y	123.3	0.00	1.68	1.28	1	9	3	95	0.00	0.0	7.652	0.048	9	3	3	3
PL.32423	PL.31670	A	6 A (CWC)	7.40Y	123.3	0.03	1.71	6.09	4	43	12	96	0.01	0.0	7.718	0.114	3	1	1	15
PL.32421	PL.32423	A	6 A (CWC)	7.40Y	123.3	0.02	1.73	5.63	4	40	11	96	0.01	0.0	7.814	0.096	4	1	1	14
PL.32422	PL.32421	A	6 A (CWC)	7.40Y	123.3	0.02	1.75	5.06	4	36	10	96	0.00	0.0	7.888	0.074	0	0	0	13
PL.32420	PL.32422	A	6 A (CWC)	7.39Y	123.2	0.04	1.78	5.06	4	36	10	96	0.01	0.0	8.046	0.158	0	0	0	13
PL.31395	PL.32420	A	#2 ACSR	7.39Y	123.2	0.00	1.78	1.06	1	8	2	97	0.00	0.0	8.098	0.052	8	2	1	1
PL.32320	PL.32420	A	6 A (CWC)	7.39Y	123.2	0.02	1.80	4.01	3	28	8	96	0.00	0.0	8.148	0.102	0	0	0	12
PL.31396	PL.32320	A	6 A (CWC)	7.39Y	123.2	0.01	1.81	4.01	3	28	8	96	0.00	0.0	8.220	0.072	7	2	1	12
PL.32321	PL.31396	A	6 A (CWC)	7.39Y	123.2	0.02	1.83	2.42	2	17	5	96	0.00	0.0	8.369	0.149	0	0	0	9
PL.32373	PL.32321	A	6 A (CWC)	7.39Y	123.1	0.03	1.86	2.42	2	17	5	96	0.00	0.0	8.598	0.229	0	0	0	9
PL.32404	PL.32373	A	6 A (CWC)	7.39Y	123.1	0.01	1.86	2.42	2	17	5	96	0.00	0.0	8.677	0.079	0	0	0	9
PL.32374	PL.32404	A	6 A (CWC)	7.39Y	123.1	0.01	1.88	2.42	2	17	5	96	0.00	0.0	8.784	0.108	0	0	0	9
PL.32405	PL.32374	A	6 A (CWC)	7.39Y	123.1	0.01	1.89	2.42	2	17	5	96	0.00	0.0	8.879	0.095	0	0	0	9
PL.32492	PL.32405	A	6 A (CWC)	7.39Y	123.1	0.00	1.89	2.13	2	15	4	97	0.00	0.0	8.897	0.018	3	1	1	8
PL.32493	PL.32492	A	6 A (CWC)	7.39Y	123.1	0.01	1.89	1.67	1	12	3	97	0.00	0.0	8.980	0.083	0	0	0	7
PL.31400	PL.32493	A	#4 ACSR	7.39Y	123.1	0.00	1.90	0.35	0	2	1	89	0.00	0.0	9.102	0.123	2	1	1	1
PL.32322	PL.32493	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	1.32	1	9	3	95	0.00	0.0	9.046	0.067	0	0	0	6
PL.32494	PL.32322	A	6 A (CWC)	7.39Y	123.1	0.00	1.90	1.32	1	9	3	95	0.00	0.0	9.137	0.091	3	1	1	6
PL.32495	PL.32494	A	6 A (CWC)	7.39Y	123.1	0.01	1.91	0.82	1	6	2	95	0.00	0.0	9.292	0.156	0	0	0	5
PL.31401	PL.32495	A	#4 ACSR	7.39Y	123.1	0.00	1.91	0.00	0	0	0	100	0.00	0.0	9.353	0.061	0	0	2	2
PL.32323	PL.32495	A	6 A (CWC)	7.39Y	123.1	0.00	1.91	0.82	1	6	2	95	0.00	0.0	9.333	0.040	0	0	0	3
PL.31402	PL.32323	A	#4 ACSR	7.39Y	123.1	0.00	1.91	0.82	1	6	2	95	0.00	0.0	9.430	0.097	0	0	0	3

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31403	PL.31402	A	#4 ACSR	7.38Y	123.1	0.00	1.92	0.82	1	6	2	95	0.00	0.0	9.518	0.088	0	0	0	3
PL.32324	PL.31403	A	#4 ACSR	7.38Y	123.1	0.00	1.92	0.04	0	0	0	100	0.00	0.0	9.563	0.045	0	0	1	1
PL.32496	PL.31403	A	#2 ACSR	7.38Y	123.1	0.00	1.92	0.78	0	6	2	95	0.00	0.0	9.565	0.047	3	1	1	2
PL.32497	PL.32496	A	#2 ACSR	7.38Y	123.1	0.00	1.92	0.38	0	3	1	95	0.00	0.0	9.753	0.188	3	1	1	1
PL.31399	PL.32405	A	6 A (CWC)	7.39Y	123.1	0.00	1.89	0.28	0	2	1	89	0.00	0.0	8.936	0.057	2	1	1	1
PL.31397	PL.31396	A	6 A (CWC)	7.39Y	123.2	0.00	1.82	0.66	0	5	1	98	0.00	0.0	8.307	0.088	3	1	1	2
PL.31398	PL.31397	A	#2 ACSR	7.39Y	123.2	0.00	1.82	0.18	0	1	0	100	0.00	0.0	8.400	0.093	1	0	1	1
PL.31391	PL.32370	A	6 A (CWC)	7.40Y	123.4	0.00	1.64	0.50	0	4	1	97	0.00	0.0	7.609	0.120	4	1	2	2
PL.31389	PL.32418	A	#4 ACSR	7.41Y	123.5	0.00	1.52	0.58	0	4	1	97	0.00	0.0	7.210	0.028	4	1	2	2
PL.32604	PL.31383	A	6 A (CWC)	7.43Y	123.8	0.00	1.17	1.29	1	9	3	95	0.00	0.0	6.561	0.005	0	0	0	3
PD.4453	PL.32604	A	40T	7.43Y	123.8	0.00	1.17	1.29	0	9	3	95	0.00	0.0	6.561	0.005	0	0	0	3
PL.32605	PD.4453	A	6 A (CWC)	7.43Y	123.8	0.00	1.17	1.29	1	9	3	95	0.00	0.0	6.631	0.070	7	2	1	3
PL.31385	PL.32605	A	#2 ACSR	7.43Y	123.8	0.00	1.17	0.25	0	2	1	89	0.00	0.0	6.664	0.033	2	1	2	2
PL.32558	PL.31713	C	#4 ACSR	7.39Y	123.1	0.00	1.88	1.66	1	12	3	97	0.00	0.0	5.514	0.005	0	0	0	3
PD.4430	PL.32558	C	40T	7.39Y	123.1	0.00	1.88	1.66	0	12	3	97	0.00	0.0	5.514	0.005	0	0	0	3
PL.32559	PD.4430	C	#4 ACSR	7.39Y	123.1	0.00	1.88	1.66	1	12	3	97	0.00	0.0	5.529	0.016	0	0	1	3
PL.31707	PL.32559	C	#4 ACSR	7.39Y	123.1	0.01	1.89	1.63	1	12	3	97	0.00	0.0	5.611	0.081	2	1	1	2
PL.32294	PL.31707	C	#1/0 ACSR	7.39Y	123.1	0.00	1.89	1.28	1	9	3	95	0.00	0.0	5.677	0.066	9	3	1	1
PL.32269	PL.31441	A	#1/0 ACSR	7.39Y	123.1	0.01	1.87	18.10	8	129	37	96	0.01	0.0	5.447	0.027	1	0	1	39
PL.32426	PL.32269	A	#1/0 ACSR	7.39Y	123.1	0.00	1.87	17.96	8	127	37	96	0.00	0.0	5.451	0.004	0	0	0	38
PD.4449	PL.32426	A	40T	7.39Y	123.1	0.00	1.87	17.96	0	127	37	96	0.00	0.0	5.451	0.004	0	0	0	38
PL.32270	PD.4449	A	#1/0 ACSR	7.39Y	123.1	0.00	1.87	0.53	0	4	1	97	0.00	0.0	5.516	0.065	0	0	0	1
PL.32292	PL.32270	A	#2 ACSR	7.39Y	123.1	0.00	1.87	0.53	0	4	1	97	0.00	0.0	5.599	0.084	4	1	1	1
PL.31698	PD.4449	A	#1/0 ACSR	7.39Y	123.1	0.01	1.88	17.43	8	124	36	96	0.01	0.0	5.488	0.037	3	1	1	37
PL.31699	PL.31698	A	#1/0 ACSR	7.39Y	123.1	0.02	1.90	16.94	7	120	35	96	0.01	0.0	5.532	0.044	3	1	1	36
PL.31700	PL.31699	A	#1/0 ACSR	7.38Y	123.1	0.03	1.93	16.55	7	117	34	96	0.02	0.0	5.613	0.082	8	2	1	35
PL.32424	PL.31700	A	#1/0 ACSR	7.38Y	123.0	0.03	1.96	15.36	7	109	31	96	0.02	0.0	5.688	0.074	0	0	0	34
PL.32425	PL.32424	A	#1/0 ACSR	7.38Y	123.0	0.02	1.98	14.20	6	101	29	96	0.01	0.0	5.751	0.063	12	3	1	33
PL.31701	PL.32425	A	#1/0 ACSR	7.38Y	123.0	0.02	1.99	12.57	5	89	26	96	0.01	0.0	5.806	0.055	13	4	2	32
PL.31702	PL.31701	A	#1/0 ACSR	7.38Y	123.0	0.01	2.01	10.75	5	76	22	96	0.01	0.0	5.860	0.054	0	0	1	30
PL.31696	PL.31702	A	#1/0 ACSR	7.38Y	123.0	0.02	2.03	10.73	5	76	22	96	0.01	0.0	5.951	0.091	3	1	1	29

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.31697	PL.31696	A	#1/0 ACSR	7.38Y	122.9	0.02	2.05	10.36	5	73	21	96	0.01	0.0	6.042	0.091	0	0	1	28
PL.31705	PL.31697	A	#1/0 ACSR	7.37Y	122.9	0.04	2.09	10.36	5	73	21	96	0.02	0.0	6.190	0.148	0	0	0	27
PL.31706	PL.31705	A	#1/0 ACSR	7.37Y	122.9	0.02	2.10	10.36	5	73	21	96	0.01	0.0	6.260	0.070	0	0	0	27
PL.32273	PL.31706	A	#1/0 ACSR	7.37Y	122.9	0.04	2.14	8.85	4	63	18	96	0.01	0.0	6.434	0.174	1	0	1	25
PL.32276	PL.32273	A	#1/0 ACSR	7.37Y	122.8	0.03	2.17	7.86	3	56	16	96	0.01	0.0	6.586	0.152	0	0	0	22
PL.32360	PL.32276	A	#1/0 ACSR	7.37Y	122.8	0.02	2.18	7.86	3	56	16	96	0.01	0.0	6.670	0.083	0	0	0	22
PL.32556	PL.32360	A	#1/0 ACSR	7.37Y	122.8	0.00	2.18	0.69	0	5	1	98	0.00	0.0	6.674	0.005	0	0	0	2
PD.4428	PL.32556	A	25T	7.37Y	122.8	0.00	2.18	0.69	0	5	1	98	0.00	0.0	6.674	0.005	0	0	0	2
PL.32557	PD.4428	A	#1/0 ACSR	7.37Y	122.8	0.00	2.18	0.69	0	5	1	98	0.00	0.0	6.765	0.091	2	1	1	2
PL.32278	PL.32557	A	#1/0 ACSR	7.37Y	122.8	0.00	2.18	0.35	0	2	1	89	0.00	0.0	6.821	0.056	2	1	1	1
PL.32316	PL.32360	A	#1/0 ACSR	7.37Y	122.8	0.01	2.20	7.17	3	51	15	96	0.00	0.0	6.758	0.088	0	0	0	20
PL.31703	PL.32316	A	#1/0 ACSR	7.37Y	122.8	0.01	2.21	7.17	3	51	15	96	0.00	0.0	6.830	0.072	3	1	1	20
PL.31704	PL.31703	A	#1/0 ACSR	7.37Y	122.8	0.01	2.22	6.75	3	48	14	96	0.00	0.0	6.911	0.081	11	3	1	19
PL.32277	PL.31704	A	#1/0 ACSR	7.37Y	122.8	0.00	2.22	0.18	0	1	0	100	0.00	0.0	6.968	0.057	1	0	1	1
PL.32413	PL.31704	A	#1/0 ACSR	7.37Y	122.8	0.01	2.23	5.02	2	36	10	96	0.00	0.0	7.006	0.095	0	0	0	17
PL.32598	PL.32413	A	6 A (CWC)	7.37Y	122.8	0.00	2.23	5.02	4	36	10	96	0.00	0.0	7.011	0.005	0	0	0	17
PD.4450	PL.32598	A	20T	7.37Y	122.8	0.00	2.23	5.02	0	36	10	96	0.00	0.0	7.011	0.005	0	0	0	17
PL.32599	PD.4450	A	6 A (CWC)	7.36Y	122.7	0.03	2.27	5.02	4	36	10	96	0.01	0.0	7.154	0.143	0	0	0	17
PL.32554	PL.32599	A	#2 ACSR	7.36Y	122.7	0.00	2.27	2.20	1	16	4	97	0.00	0.0	7.158	0.005	0	0	0	4
PD.4427	PL.32554	A	15T	7.36Y	122.7	0.00	2.27	2.20	0	16	4	97	0.00	0.0	7.158	0.005	0	0	0	4
PL.32555	PD.4427	A	#2 ACSR	7.36Y	122.7	0.01	2.28	2.20	1	16	4	97	0.00	0.0	7.305	0.147	0	0	0	4
PL.32361	PL.32555	A	#2 ACSR	7.36Y	122.7	0.01	2.28	2.20	1	16	4	97	0.00	0.0	7.382	0.077	0	0	0	4
PL.32288	PL.32361	A	#1/0 ACSR	7.36Y	122.7	0.00	2.28	0.53	0	4	1	97	0.00	0.0	7.463	0.081	4	1	1	1
PL.32289	PL.32361	A	#2 ACSR	7.36Y	122.7	0.01	2.29	1.67	1	12	3	97	0.00	0.0	7.521	0.139	0	0	0	3
PL.32290	PL.32289	A	#2 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	7.633	0.111	0	0	0	2
PL.31690	PL.32290	A	#2 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	7.752	0.119	0	0	1	2
PL.31691	PL.31690	A	#2 ACSR	7.36Y	122.7	0.00	2.29	0.00	0	0	0	100	0.00	0.0	7.865	0.113	0	0	1	1
PL.32291	PL.32289	A	#2 ACSR	7.36Y	122.7	0.00	2.29	1.67	1	12	3	97	0.00	0.0	7.566	0.045	12	3	1	1
PL.32317	PL.32599	A	6 A (CWC)	7.36Y	122.7	0.01	2.28	2.82	2	20	6	96	0.00	0.0	7.250	0.097	4	1	2	13
PL.32279	PL.32317	A	6 A (CWC)	7.36Y	122.7	0.01	2.29	2.23	2	16	5	95	0.00	0.0	7.353	0.103	0	0	0	11
PL.32280	PL.32279	A	6 A (CWC)	7.36Y	122.7	0.00	2.29	0.22	0	2	0	100	0.00	0.0	7.453	0.100	0	0	0	2

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32362	PL.32280	A	6 A (CWC)	7.36Y	122.7	0.00	2.29	0.22	0	2	0	100	0.00	0.0	7.574	0.121	0	0	0	2
PL.31412	PL.32362	A	#4 ACSR	7.36Y	122.7	0.00	2.29	0.22	0	2	0	100	0.00	0.0	7.623	0.049	0	0	0	2
PL.32363	PL.31412	A	#4 ACSR	7.36Y	122.7	0.00	2.29	0.22	0	2	0	100	0.00	0.0	7.767	0.144	0	0	0	2
PL.32364	PL.32363	A	#4 ACSR	7.36Y	122.7	0.00	2.29	0.22	0	2	0	100	0.00	0.0	7.886	0.119	0	0	0	2
PL.31687	PL.32364	A	#4 ACSR	7.36Y	122.7	0.00	2.29	0.22	0	2	0	100	0.00	0.0	8.019	0.132	0	0	0	2
PL.31693	PL.31687	A	#4 ACSR	7.36Y	122.7	0.00	2.29	0.22	0	2	0	100	0.00	0.0	8.055	0.036	0	0	1	2
PL.31692	PL.31693	A	#4 ACSR	7.36Y	122.7	0.00	2.29	0.21	0	1	0	100	0.00	0.0	8.200	0.145	1	0	1	1
PL.32318	PL.32279	A	6 A (CWC)	7.36Y	122.7	0.01	2.30	2.02	1	14	4	96	0.00	0.0	7.446	0.093	0	0	0	9
PL.32281	PL.32318	A	6 A (CWC)	7.36Y	122.7	0.00	2.30	0.29	0	2	1	89	0.00	0.0	7.506	0.060	2	1	1	1
PL.32282	PL.32318	A	6 A (CWC)	7.36Y	122.7	0.01	2.30	1.73	1	12	4	95	0.00	0.0	7.536	0.090	0	0	0	8
PL.32365	PL.32282	A	6 A (CWC)	7.36Y	122.7	0.01	2.32	1.73	1	12	4	95	0.00	0.0	7.698	0.162	0	0	0	8
PL.32283	PL.32365	A	#4 ACSR	7.36Y	122.7	0.01	2.33	1.73	1	12	4	95	0.00	0.0	7.822	0.124	0	0	0	8
PL.32366	PL.32283	A	#4 ACSR	7.36Y	122.7	0.01	2.33	1.73	1	12	4	95	0.00	0.0	7.925	0.103	0	0	0	8
PL.32284	PL.32366	A	#4 ACSR	7.36Y	122.7	0.01	2.35	1.73	1	12	4	95	0.00	0.0	8.082	0.157	0	0	0	8
PL.32409	PL.32284	A	#4 ACSR	7.36Y	122.7	0.00	2.35	0.81	1	6	2	95	0.00	0.0	8.199	0.117	0	0	0	6
PL.32286	PL.32409	A	#4 ACSR	7.36Y	122.6	0.00	2.35	0.81	1	6	2	95	0.00	0.0	8.335	0.136	0	0	0	5
PL.32367	PL.32286	A	#4 ACSR	7.36Y	122.6	0.00	2.36	0.81	1	6	2	95	0.00	0.0	8.511	0.176	2	1	4	5
PL.32287	PL.32367	A	#1/0 ACSR	7.36Y	122.6	0.00	2.36	0.46	0	3	1	95	0.00	0.0	8.556	0.045	3	1	1	1
PL.32410	PL.32409	A	#4 ACSR	7.36Y	122.7	0.00	2.35	0.01	0	0	0	100	0.00	0.0	8.260	0.061	0	0	1	1
PL.32285	PL.32284	A	#4 ACSR	7.36Y	122.7	0.00	2.35	0.91	1	6	2	95	0.00	0.0	8.134	0.052	6	2	2	2
PL.32275	PL.32273	A	#1/0 ACSR	7.37Y	122.9	0.00	2.14	0.86	0	6	2	95	0.00	0.0	6.438	0.004	0	0	0	2
PD.4429	PL.32275	A	25T	7.37Y	122.9	0.00	2.14	0.86	0	6	2	95	0.00	0.0	6.438	0.004	0	0	0	2
PL.32315	PD.4429	A	#1/0 ACSR	7.37Y	122.9	0.00	2.14	0.53	0	4	1	97	0.00	0.0	6.549	0.111	4	1	1	1
PL.32274	PD.4429	A	#1/0 ACSR	7.37Y	122.9	0.00	2.14	0.32	0	2	1	89	0.00	0.0	6.531	0.093	2	1	1	1
PL.32272	PL.31706	A	#1/0 ACSR	7.37Y	122.9	0.00	2.10	1.51	1	11	3	96	0.00	0.0	6.311	0.051	11	3	2	2
PL.32271	PL.32424	A	#1/0 ACSR	7.38Y	123.0	0.00	1.96	1.16	1	8	2	97	0.00	0.0	5.735	0.048	8	2	1	1
PL.32560	PL.32353	C	6 A (CWC)	7.40Y	123.3	0.00	1.69	3.74	3	27	8	96	0.00	0.0	4.910	0.005	0	0	0	6
PD.4431	PL.32560	C	65T	7.40Y	123.3	0.00	1.69	3.74	0	27	8	96	0.00	0.0	4.910	0.005	0	0	0	6
PL.32561	PD.4431	C	6 A (CWC)	7.40Y	123.3	0.02	1.72	3.74	3	27	8	96	0.00	0.0	5.048	0.138	0	0	0	6
PL.32265	PL.32561	C	#4 ACSR	7.40Y	123.3	0.00	1.72	0.00	0	0	0	100	0.00	0.0	5.107	0.058	0	0	0	0
PL.32313	PL.32561	C	6 A (CWC)	7.40Y	123.3	0.01	1.72	3.74	3	27	8	96	0.00	0.0	5.092	0.043	0	0	1	6

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32266	PL.32313	C	6 A (CWC)	7.40Y	123.3	0.01	1.73	3.74	3	27	8	96	0.00	0.0	5.147	0.055	0	0	0	5
PL.32267	PL.32266	C	6 A (CWC)	7.40Y	123.3	0.00	1.73	0.24	0	2	0	100	0.00	0.0	5.178	0.031	2	0	1	1
PL.32314	PL.32266	C	6 A (CWC)	7.39Y	123.2	0.02	1.75	3.50	3	25	7	96	0.00	0.0	5.258	0.111	0	0	0	4
PL.31710	PL.32314	C	#1/0 ACSR	7.39Y	123.2	0.00	1.75	1.20	1	9	2	98	0.00	0.0	5.298	0.040	9	2	1	1
PL.31711	PL.31710	C	#1/0 ACSR	7.39Y	123.2	0.00	1.75	0.00	0	0	0	100	0.00	0.0	5.408	0.111	0	0	0	0
PL.32355	PL.31711	C	#1/0 ACSR	7.39Y	123.2	0.00	1.75	0.00	0	0	0	100	0.00	0.0	5.519	0.111	0	0	0	0
PL.32356	PL.32355	C	#1/0 ACSR	7.39Y	123.2	0.00	1.75	0.00	0	0	0	100	0.00	0.0	5.643	0.124	0	0	0	0
PL.32357	PL.32356	C	#1/0 ACSR	7.39Y	123.2	0.00	1.75	0.00	0	0	0	100	0.00	0.0	5.741	0.098	0	0	0	0
PL.32268	PL.32314	C	6 A (CWC)	7.39Y	123.2	0.02	1.77	2.31	2	16	5	95	0.00	0.0	5.440	0.183	0	0	0	3
PL.32354	PL.32268	C	6 A (CWC)	7.39Y	123.2	0.00	1.78	2.31	2	16	5	95	0.00	0.0	5.526	0.086	16	5	3	3
PL.32564	PL.32429	C	#4 ACSR	7.40Y	123.4	0.00	1.62	0.44	0	3	1	95	0.00	0.0	4.674	0.005	0	0	0	1
PD.4432	PL.32564	C	65T	7.40Y	123.4	0.00	1.62	0.44	0	3	1	95	0.00	0.0	4.674	0.005	0	0	0	1
PL.32565	PD.4432	C	#4 ACSR	7.40Y	123.4	0.00	1.62	0.44	0	3	1	95	0.00	0.0	4.696	0.022	3	1	1	1
PL.32264	PL.32431	A	#1/0 ACSR	7.41Y	123.4	0.00	1.57	1.86	1	13	4	96	0.00	0.0	4.535	0.004	0	0	0	4
PD.4433	PL.32264	A	65T	7.41Y	123.4	0.00	1.57	1.86	0	13	4	96	0.00	0.0	4.535	0.004	0	0	0	4
PL.32312	PD.4433	A	#1/0 ACSR	7.41Y	123.4	0.00	1.57	0.82	0	6	2	95	0.00	0.0	4.578	0.043	6	2	1	1
PL.32263	PD.4433	A	#1/0 ACSR	7.41Y	123.4	0.00	1.57	1.04	0	7	2	96	0.00	0.0	4.579	0.044	7	2	3	3
PL.32596	PL.32349	A	#2 ACSR	7.41Y	123.5	0.00	1.49	0.83	0	6	2	95	0.00	0.0	4.293	0.005	0	0	0	1
PD.4448	PL.32596	A	65T	7.41Y	123.5	0.00	1.49	0.83	0	6	2	95	0.00	0.0	4.293	0.005	0	0	0	1
PL.32597	PD.4448	A	#2 ACSR	7.41Y	123.5	0.00	1.49	0.83	0	6	2	95	0.00	0.0	4.378	0.086	0	0	0	1
PL.32350	PL.32597	A	#2 ACSR	7.41Y	123.5	0.00	1.49	0.83	0	6	2	95	0.00	0.0	4.495	0.116	6	2	1	1
PL.32570	PL.32238	B	#1/0 ACSR	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	2.928	0.005	0	0	0	0
PD.4436	PL.32570	B	65T	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	2.928	0.005	0	0	0	0
PL.32571	PD.4436	B	#1/0 ACSR	7.44Y	124.0	0.00	1.02	0.00	0	0	0	100	0.00	0.0	2.962	0.033	0	0	0	0
PL.32227	PL.32225	A	#1/0 ACSR	7.46Y	124.3	0.00	0.74	2.24	1	16	5	95	0.00	0.0	2.127	0.022	0	0	0	3
PL.32578	PL.32227	A	6 A (CWC)	7.46Y	124.3	0.00	0.74	2.24	2	16	5	95	0.00	0.0	2.132	0.005	0	0	0	3
PD.4439	PL.32578	A	65T	7.46Y	124.3	0.00	0.74	2.24	0	16	5	95	0.00	0.0	2.132	0.005	0	0	0	3
PL.32579	PD.4439	A	6 A (CWC)	7.46Y	124.3	0.01	0.75	2.24	2	16	5	95	0.00	0.0	2.298	0.166	9	3	1	3
PL.32506	PL.32579	A	6 A (CWC)	7.45Y	124.2	0.00	0.75	1.02	1	7	2	96	0.00	0.0	2.476	0.178	7	2	2	2
PL.32580	PL.32215	A	6 A (CWC)	7.47Y	124.5	0.00	0.52	0.31	0	2	1	89	0.00	0.0	1.502	0.005	0	0	0	1
PD.4440	PL.32580	A	65T	7.47Y	124.5	0.00	0.52	0.31	0	2	1	89	0.00	0.0	1.502	0.005	0	0	0	1

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Balanced Voltage Drop Report
Source: Greenhall

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

Units Displayed In Volts
-Base Voltage:120.0-

Element Name	Parent Name	Cnf	Type/ Conductor	Pri kV	Base Volt	Element Drop	Accum Drop	Thru Amps	% Cap	Thru KW	KVAR	% PF	kW Loss	% Loss	mi From Src	Element Length (mi)	Element KW	Element KVAR	Element Cons On	Element Cons Thru
PL.32581	PD.4440	A	6 A (CWC)	7.47Y	124.5	0.00	0.52	0.31	0	2	1	89	0.00	0.0	1.541	0.040	2	1	1	1
PL.32582	PL.32210	A	6 A (CWC)	7.47Y	124.6	0.00	0.44	2.84	2	20	6	96	0.00	0.0	1.287	0.005	0	0	0	7
PD.4441	PL.32582	A	65T	7.47Y	124.6	0.00	0.44	2.84	0	20	6	96	0.00	0.0	1.287	0.005	0	0	0	7
PL.32583	PD.4441	A	6 A (CWC)	7.47Y	124.6	0.00	0.44	2.84	2	20	6	96	0.00	0.0	1.320	0.033	8	2	2	7
PL.32507	PL.32583	A	6 A (CWC)	7.47Y	124.6	0.00	0.45	1.68	1	12	3	97	0.00	0.0	1.366	0.046	10	3	2	5
PL.32212	PL.32507	A	6 A (CWC)	7.47Y	124.6	0.00	0.45	0.30	0	2	1	89	0.00	0.0	1.521	0.155	0	0	0	3
PL.32508	PL.32212	A	#4 ACSR	7.47Y	124.6	0.00	0.45	0.30	0	2	1	89	0.00	0.0	1.678	0.157	0	0	1	3
PL.32509	PL.32508	A	#4 ACSR	7.47Y	124.5	0.00	0.45	0.29	0	2	1	89	0.00	0.0	1.792	0.114	2	1	2	2
PL.32592	PL.32308	A	#4 ACSR	7.48Y	124.7	0.00	0.25	0.23	0	2	0	100	0.00	0.0	0.776	0.003	0	0	0	1
PD.4446	PL.32592	A	65T	7.48Y	124.7	0.00	0.25	0.23	0	2	0	100	0.00	0.0	0.776	0.003	0	0	0	1
PL.32593	PD.4446	A	#4 ACSR	7.48Y	124.7	0.00	0.25	0.23	0	2	0	100	0.00	0.0	0.863	0.087	2	0	1	1
PL.32590	PL.32308	B	#4 ACSR	7.48Y	124.7	0.00	0.25	0.02	0	0	0	100	0.00	0.0	0.777	0.005	0	0	0	1
PD.4445	PL.32590	B	65T	7.48Y	124.7	0.00	0.25	0.02	0	0	0	100	0.00	0.0	0.777	0.005	0	0	0	1
PL.32591	PD.4445	B	#4 ACSR	7.48Y	124.7	0.00	0.25	0.02	0	0	0	100	0.00	0.0	0.818	0.041	0	0	1	1
PL.32588	PL.32306	C	#4 ACSR	7.49Y	124.9	0.00	0.12	0.16	0	1	0	100	0.00	0.0	0.433	0.005	0	0	0	2
PD.4444	PL.32588	C	65T	7.49Y	124.9	0.00	0.12	0.16	0	1	0	100	0.00	0.0	0.433	0.005	0	0	0	2
PL.32589	PD.4444	C	#4 ACSR	7.49Y	124.9	0.00	0.12	0.16	0	1	0	100	0.00	0.0	0.497	0.064	1	0	2	2
PL.32584	PL.32511	A	#2 ACSR	7.49Y	124.9	0.00	0.10	0.89	1	6	2	95	0.00	0.0	0.424	0.061	0	0	0	1
PD.4442	PL.32584	A	65T	7.49Y	124.9	0.00	0.10	0.89	0	6	2	95	0.00	0.0	0.424	0.061	0	0	0	1
PL.32585	PD.4442	A	#2 ACSR	7.49Y	124.9	0.00	0.10	0.89	1	6	2	95	0.00	0.0	0.499	0.075	6	2	1	1

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	Load	Adjustment	Capacitance	Charging	Gen&Motors	Loops&Metas	Losses	No Load Losses	Total
KW	4715	0	0	0	0	0	269	0.00	4984
KVAR	1354	0	0	0	0	0	282		1636

Lowest Voltage = 118.16 on Element PL.31598
Max Accm VoltD = 6.84 on Element PL.31598
Max Elem VoltD = 0.38 on Element PL.31309